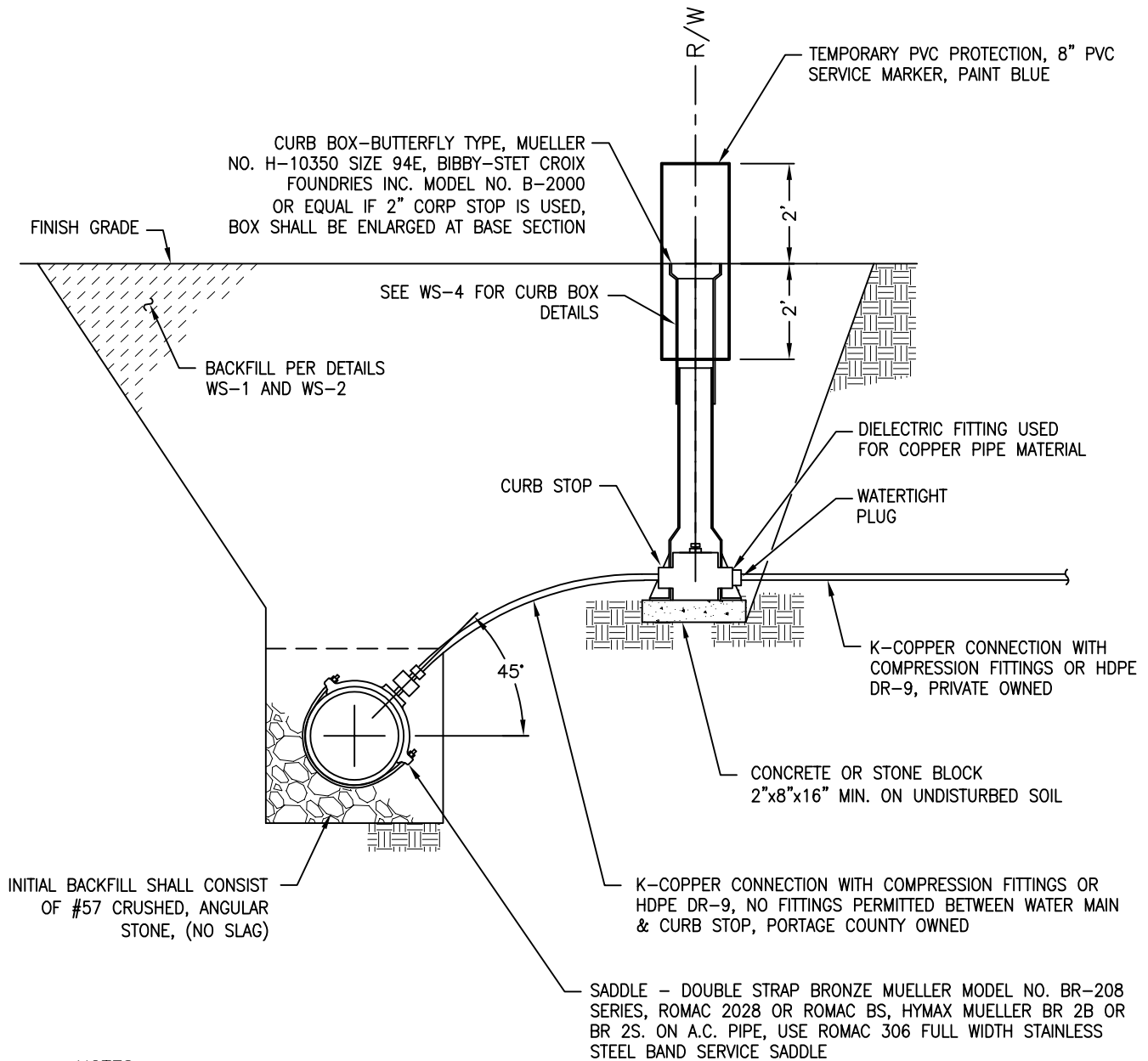


**NOTES:**

1. REFER TO OSHA REQUIREMENTS FOR TRENCH EXCAVATION SAFETY.
2. PROVIDE FILTER FABRIC WHEN VERY FINE OR UNSTABLE MATERIAL IS ENCOUNTERED
3. REFERENCES TO ODOT SHALL MEAN OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS, LATEST EDITION.

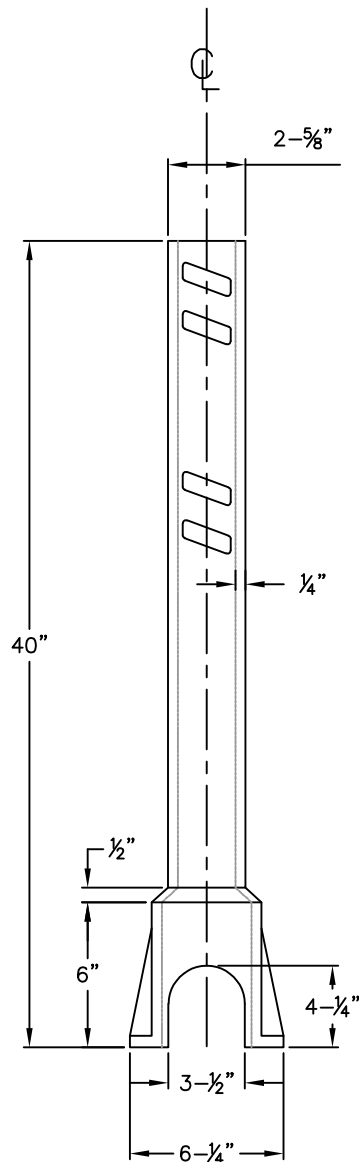




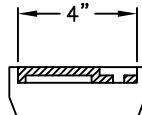
**NOTES:**

1. CURB BOXES SHALL BE LOCATED ON R/W LINE.
2. WATER SERVICE TAPS SHALL BE 1" IN SIZE
3. ALL WATER SERVICE LINES THROUGH CURB BOX SHALL BE HYDROSTATICALLY TESTED WITH NEW WATERMAN.
4. CURB BOXES SHALL NOT BE LOCATED IN DRIVEWAYS OR SIDEWALKS
5. CURB BOX SHALL BE SET PLUM & CENTERED ON CURB STOP
6. CURB BOX ROD SHALL NOT BE USED UNLESS DEPTH IS GREATER THAN 7'
7. IF SERVICE ON PRIVATE SIDE IS COPPER, DIELECTRIC FITTINGS ARE REQUIRED AT THE CURB BOX.
8. STATIONS, OFFSETS, & ELEVATIONS SHALL BE PROVIDED FOR EACH HYDRANT AND TEE.
9. PCWR INSPECTION STAFF TO REVIEW TAPPING SLEEVE PRIOR TO TAPPING WATER MAIN.

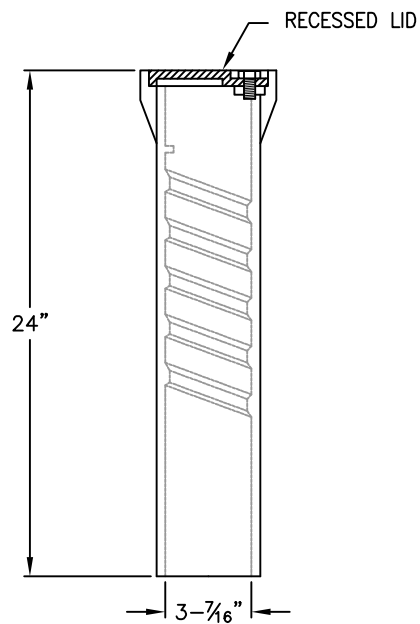
ALL VALVE BOXES SHALL BE CHECKED FOR CENTER AT THE COMPLETION OF THE PROJECT.  
VALVE BOX SHALL BE WITHIN  $\frac{1}{4}$ " OF PLUMB CENTER AS IT RELATES TO VALVE NUT.



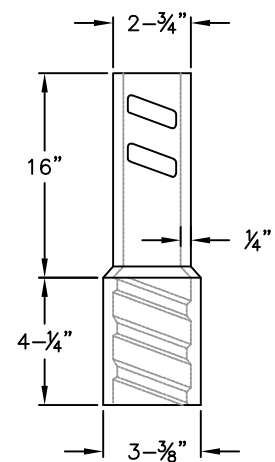
BOTTOM



HEAVY DUTY LID

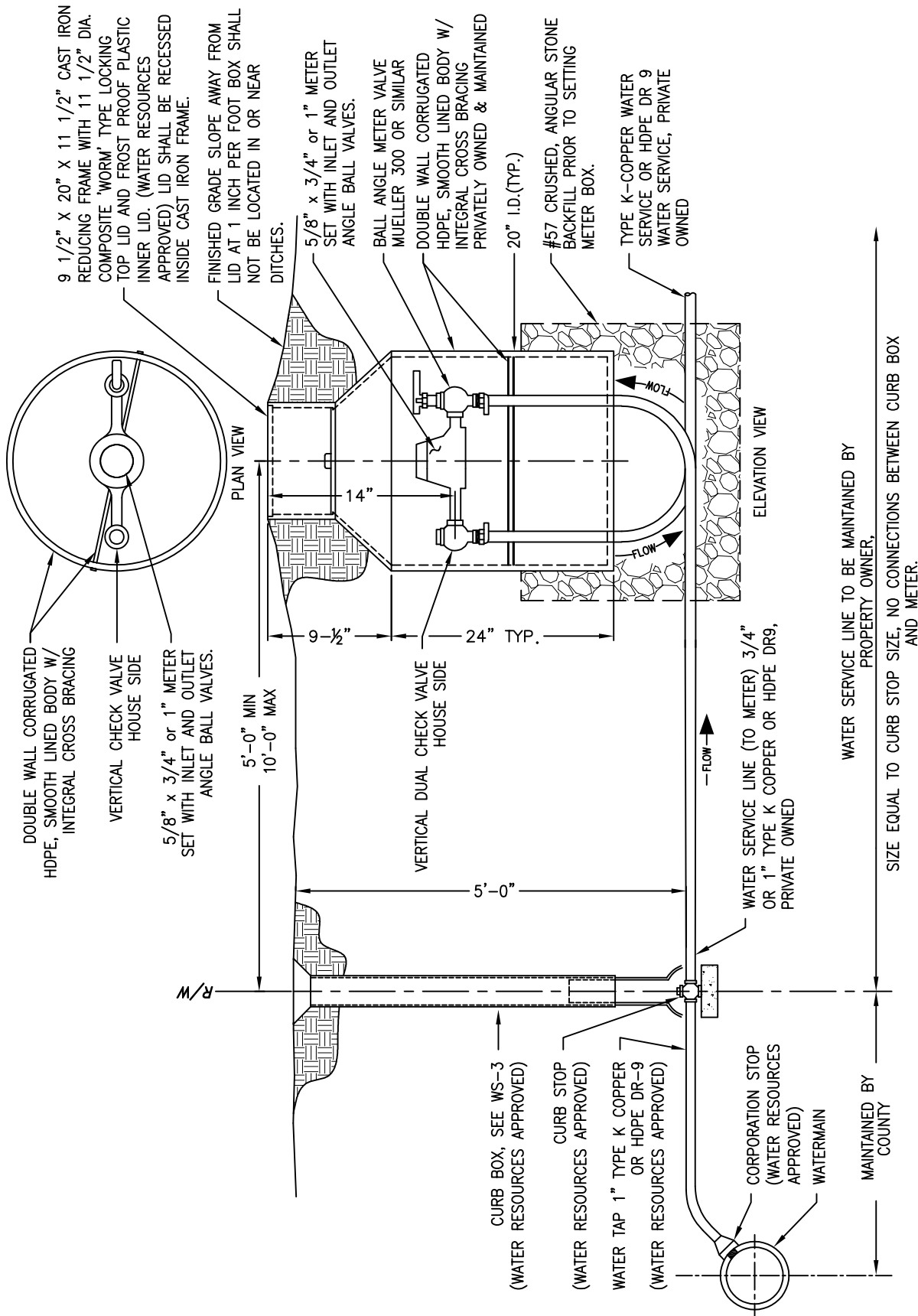


TOP



EXTENSION

CURB BOX-BUTTERFLY TYPE, MUELLER NO. H-10350  
SIZE 94E, BIBBY-STET CROIX FOUNDRIES INC. MODEL  
NO. B-2000 OR EQUAL IF 2" CORP STOP IS USED,  
BOX SHALL BE ENLARGED AT BASE SECTION



**NOTES:**

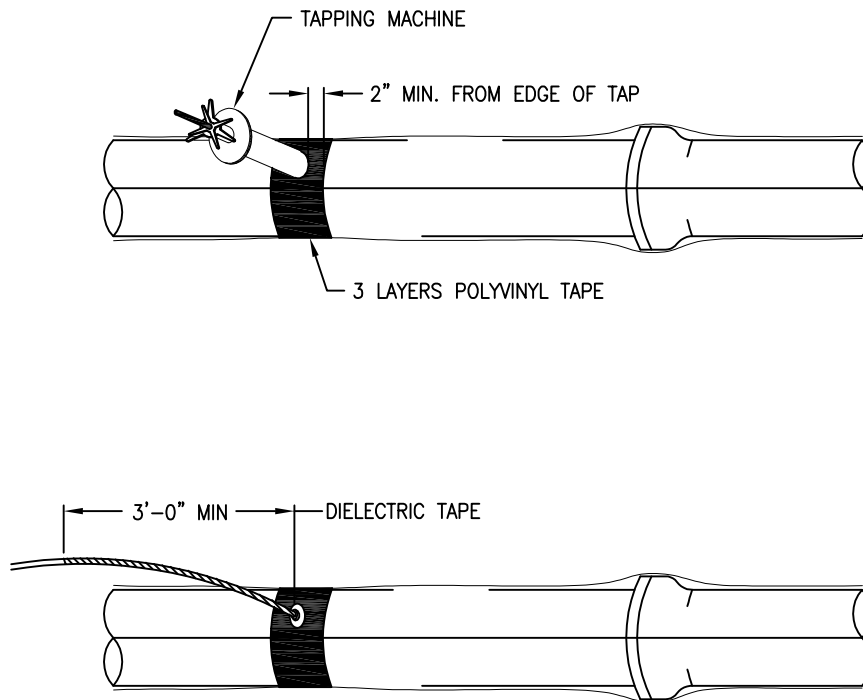
1. FOR REFERENCE IN PLACING NEW CORPORATION STOPS, CURB STOPS AND CURB BOXES SEE WS-3.
2. IF POLY TUBING IS INSTALLED TO EITHER SIDE OF (OR BOTH) THE METER, METER SHALL BE SUPPORTED USING METER YOKE WITH STABILIZING PRONGS ON IRON PIPE STAKES. METER YOKE SHALL BE A FORD H-5020P OR SIMILAR.
3. IF THE METER SIZE IS LESS THAN THE WATER SERVICE LINE SIZE, ANY REDUCERS/INCREASERS SHALL BE PLACED ON THE VERTICAL OUTLET PIPING INSIDE OF THE METER BOX.
4. PIPE SHALL BE SAME OUTSIDE DIAMETER (O.D.) COPPER TUBING SIZE (CTS.) METER BOX SHALL BE USED IN LIEU OF HOUSE METER AS DETERMINED BY PCWR.

PORTAGE COUNTY WATER RESOURCES

TYPICAL METER BOX  
INSTALLATION

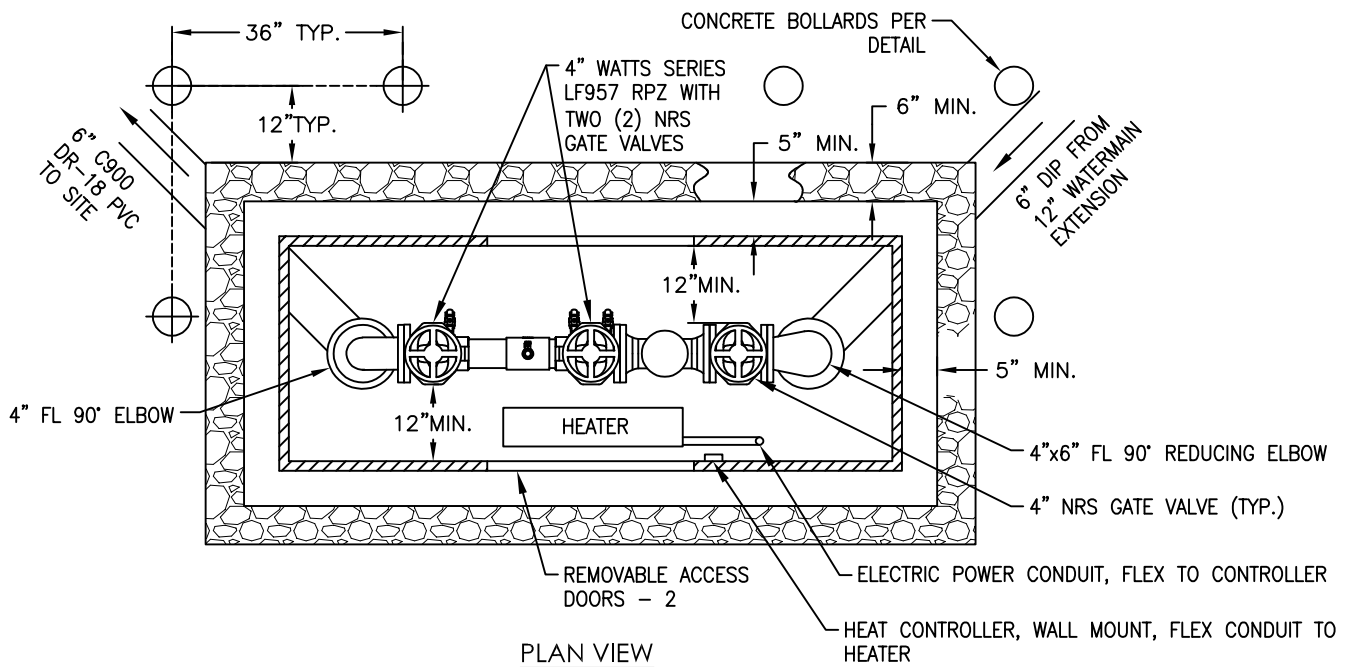
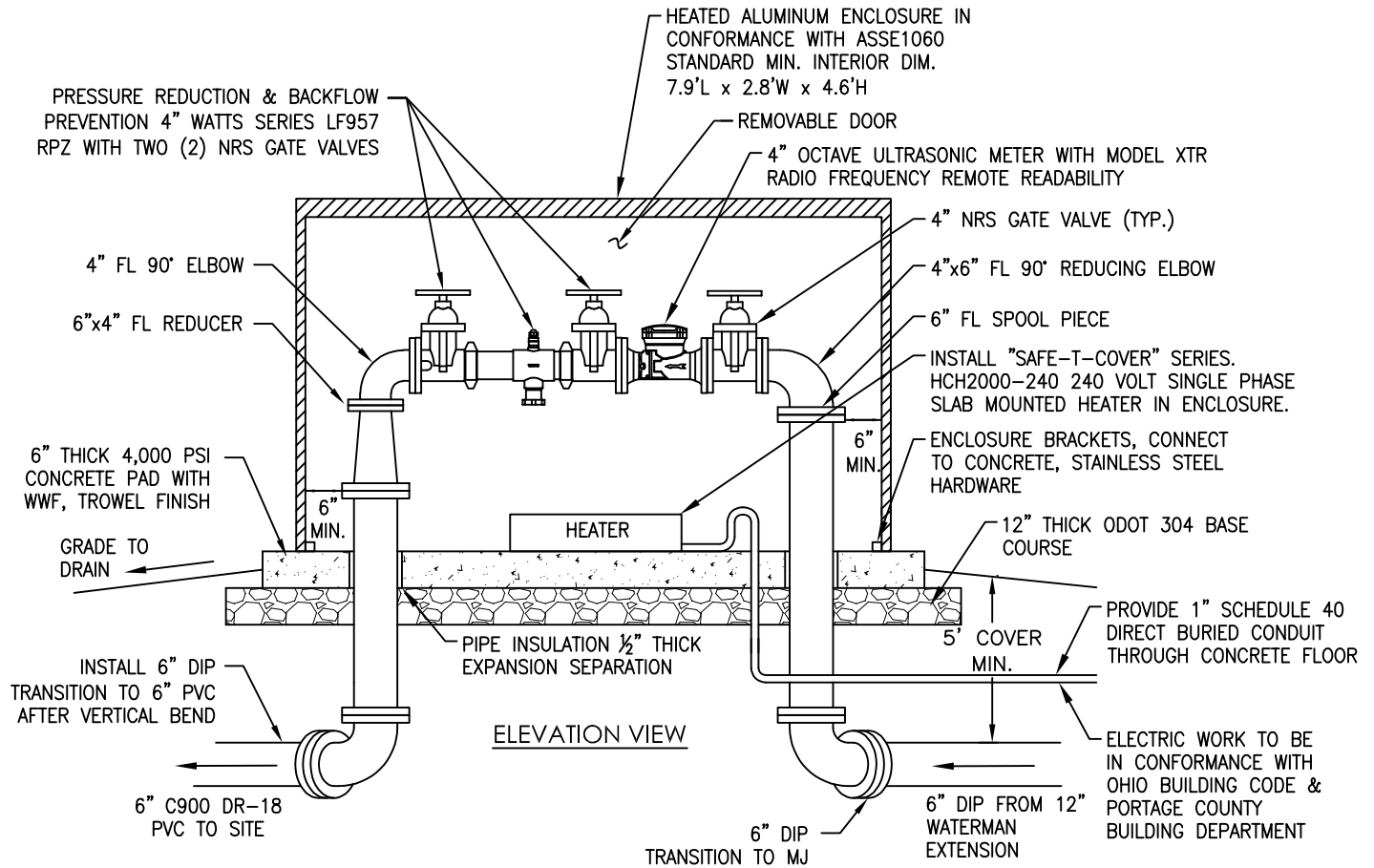
04-01-2023  
APPROVED DATE

WS-5



OPENING FOR WATER TAPS, BLOW-OFFS, AIR RELEASE VALVES AND SIMILAR APPURTENANCES

1. WRAPPING (3) THREE LAYERS OF POLYVINYL – COMPATIBLE ADHESIVE TAPE COMPLETELY AROUND THE PIPE TO COVER THE AREA WHERE THE TAPPING MACHINE AND CHAIN WILL BE MOUNTED, EXTENDING A MINIMUM OF 2" BEYOND THE MOUNTING SURFACE.
2. MOUNT THE TAPPING MACHINE ON THE PIPE AREA COVERED BY THE TAPE AND MAKE THE TAP. INSTALL THE CORPORATION STOP DIRECTLY THROUGH THE TAPE AND POLYETHYLENE.
3. INSPECT THE ENTIRE CIRCUMFERENTIAL AREA FOR DAMAGE AND MAKE ANY NECESSARY REPAIRS WITH TAPE.
4. TO MINIMIZE THE POSSIBILITY OF DISSIMILAR METAL CORROSION AT SERVICE CONNECTION, WRAP THE CORPORATION STOP AT A MINIMUM CLEAR DISTANCE OF THREE FEET FROM THE COPPER WATER TAP WITH POLYETHYLENE OR A SUITABLE DIELECTRIC TAPE.



NOTE: BOLLARDS SHALL BE INSTALLED IN AREAS OF VEHICULAR TRAFFIC

INSTALLATION NOTES:

1. ALL WATER METERS SHALL BE PROVIDED BY MASTER METER, LOCAL DISTRIBUTOR IS:

FERGUSON WATERWORKS  
3845 GROVEPORT ROAD  
COLUMBUS, OHIO 43207  
PHONE 614-497-2323.

ALL OTHER METER VENDORS ARE PROHIBITED.

2. THE COMMERCIAL METER SHALL BE MASTER METER MODEL OCTAVE ULTRASONIC WITH RADIO FREQUENCY REMOTE READABILITY AND SIZE APPLICABLE TO DESIGN DEMAND AND BE LOCATED WITHIN THE BUILDING STRUCTURE.
3. COMMERCIAL METERS LARGER THAN 1 INCH DIAMETER SHALL BE PURCHASED BY THE OWNER DIRECTLY FROM FERGUSON WATERWORKS. THE OWNER SHALL COORDINATE THE METER FOR PROJECT SITE DELIVERY AND INSTALLATION BY THE OWNER'S CERTIFIED REGISTERED CONTRACTOR. AFTER METER COMPLETION, THE OWNER SHALL NOTIFY AND SCHEDULE PORTAGE COUNTY WATER RESOURCES FOR INSTALLATION APPROVAL AND CUSTOMER START UP.
4. ALL WATER INSPECTIONS AND METER INSTALLATION REQUESTS SHALL CONTACT PORTAGE COUNTY WATER RESOURCES PERMIT/PROJECT COORDINATOR AT 330-298-2066 TO SCHEDULE.
5. ANY DEVIATION FROM THESE PLANS SHALL REQUIRE RE-APPROVAL BY ENGINEER.
6. THE ALUMINUM ENCLOSURE PURCHASE SHALL PROVIDE FOR ALL INCLUSIVE CONCRETE PAD BRACKETS, STAINLESS STEEL HARDWARE, HEATER, AND HEATER CONTROLLER.
7. ALL LOCAL & STATE CODES SHALL GOVERN.
8. RPZ WITH VALVES SHALL BE AS ONE UNIT.
9. RPZ SHALL BE LOCATED IN A HEATED AREA.
10. ALL NECESSARY PIPE & EQUIPMENT SUPPORT SHALL BE PROVIDED.
11. AIR GAP FITTINGS ARE NOT ALLOWED.
12. ALL PIPING BEFORE THE BACKFLOW PREVENTER(S) TO BE BRASS, COPPER OR CEMENT LINED DUCTILE IRON PIPE.
13. NO VICTAULIC PIPE OR FITTINGS ALLOWED.
14. CONTRACTOR SHALL VERIFY DIMENSIONS OF ENCLOSURE, METER ASSEMBLY, BACKFLOW PREVENTER AND ALL OTHER FITTINGS PRIOR TO CONSTRUCTION.
15. A CONTRACTOR SHOP DRAWING APPROVAL BY PCWR IS REQUIRED BEFORE METER ENCLOSURE CONSTRUCTION BEGINS.
16. THE WATER METER PURCHASE COST AND INITIAL 12 MONTH MAINTENANCE IS THE RESPONSIBILITY OF THE PROJECT OWNER. THEREAFTER, WATER METER MAINTENANCE AND OWNERSHIP TRANSFERS TO PORTAGE COUNTY WATER RESOURCES. THE METER ENCLOSURE WITH ALL INSIDE VALVES, PIPING, FITTINGS, ELECTRIC, AND EQUIPMENT IS THE PURCHASE AND MAINTENANCE RESPONSIBILITY FOR THE PROJECT OWNER FOR PERPETUAL NEED AND USE.



PORTAGE COUNTY WATER RESOURCES

WATER METER ENCLOSURE NOTES

04-01-2023

APPROVED DATE

WS-8



WATER METERS:

RESIDENTIAL:

1. ALL WATER METERS WITHIN THE ROOTSTOWN AND MANTUA DISTRICTS SHALL BE PROVIDED BY NEPTUNE EQUIPMENT COMPANY, 11082 SOUTHLAND ROAD, CINCINNATI, OHIO 45240, PHONE 513-851-8008.
2. ALL WATER METERS OUTSIDE OF THE ROOTSTOWN DISTRICT SHALL BE PROVIDED BY MASTER METER, LOCAL DISTRIBUTOR IS FERGUSON WATERWORKS, 3845 GROVEPORT ROAD, COLUMBUS, OHIO 43207, PHONE 614-497-2323.
3. THE MASTER METER UNIT SHALL BE MODEL 3G MULTI-JET AND THE NEPTUNE UNIT SHALL BE THE T-10 POSITIVE DISPLACEMENT UNIT. EACH UNIT FOR NEW CONSTRUCTION SHALL PROVIDE FOR 5/8 INCH DIAMETER X 3/4 INCH SIZE CONNECTIONS AND HAVE RADIO FREQUENCY REMOTE READABILITY.
4. THE METER SHALL BE LOCATED WITHIN THE BUILDING STRUCTURE. A THREADED PIPE FOR A TEMPORARY METER SPACE BAR IS PROVIDED BY PORTAGE COUNTY WATER RESOURCES TO ENSURE ADEQUATE SPACE IS PROVIDED FOR THE NEW METER AFTER COMPLETION OF ROUGH WATER SERVICE PLUMBING. ALL ROUGH PLUMBING SHALL INCORPORATE THE METER SPACE BAR AND MEET THE REQUIRED SPACE DISTANCE FOR METER INSTALLATION.
5. THE METER SHALL BE PURCHASED FROM PORTAGE COUNTY WATER RESOURCES AT THE TIME OF THE PERMIT PROCESS. THE CONTRACTOR SHALL NOTIFY AND SCHEDULE FOR PORTAGE COUNTY WATER RESOURCES METER INSTALLATION AFTER THE COMPLETION OF ALL INTERIOR STRUCTURE ROUGH PLUMBING AND THE SITE WATER SERVICE CONNECTION.
6. THE OWNER/DEVELOPER SHALL REQUEST METER INSTALLATION; THE NEW METER SHALL BE DELIVERED AND INSTALLED BY PORTAGE COUNTY WATER RESOURCES.
7. ALL WATER INSPECTIONS AND METER INSTALLATION REQUESTS SHALL CONTACT OUR PERMIT/PROJECT COORDINATOR AT 330-298-2066 TO SCHEDULE.

COMMERCIAL:

1. ALL WATER METERS SHALL BE PROVIDED BY MASTER METER, LOCAL DISTRIBUTOR IS FERGUSON WATERWORKS, 3845 GROVEPORT ROAD, COLUMBUS, OHIO 43207, PHONE 614-497-2323. ALL OTHER METER VENDORS ARE PROHIBITED.
2. THE COMMERCIAL METER SHALL BE MASTER METER MODEL OCTAVE ULTRASONIC WITH RADIO FREQUENCY REMOTE READABILITY AND SIZE APPLICABLE TO DESIGN DEMAND AND BE LOCATED WITHIN THE BUILDING STRUCTURE.
3. A COMMERCIAL METER OF 5/8 INCH OR 1 INCH DIAMETER SIZE SHALL BE PURCHASED BY THE OWNER AT THE TIME OF THE PERMIT PROCESS FROM PORTAGE COUNTY WATER RESOURCES AND INSTALLED BY PORTAGE COUNTY WATER RESOURCES. FOR THESE SIZE METERS, ALL OF THE RESIDENTIAL REQUIREMENTS APPLY.
4. COMMERCIAL METERS LARGER THAN 1 INCH DIAMETER SHALL BE PURCHASED BY THE OWNER DIRECTLY FROM FERGUSON WATERWORKS. THE OWNER SHALL COORDINATE THE METER FOR PROJECT SITE DELIVERY AND INSTALLATION BY THE OWNER'S CERTIFIED REGISTERED CONTRACTOR. AFTER METER COMPLETION, THE OWNER SHALL NOTIFY AND SCHEDULE PORTAGE COUNTY WATER RESOURCES FOR INSTALLATION APPROVAL AND CUSTOMER START UP.
5. ALL WATER INSPECTIONS AND METER INSTALLATION REQUESTS SHALL CONTACT OUR PERMIT/PROJECT COORDINATOR AT 330-298-2066 TO SCHEDULE.



PORTAGE COUNTY WATER RESOURCES

WATER METER NOTES

04-01-2023

APPROVED DATE

WS-9

## PCWR PVC PRESSURE PIPE TAPPING STANDARDS

### GENERAL

1. WATER MAINS SHALL NOT BE TAPPED UNLESS IN THE PRESENCE OF PORTAGE COUNTY WATER RESOURCES INSPECTION STAFF.
2. AVOID TAPPING OF CURVED PVC WATER MAINS.
3. PRIOR TO TAPPING ANY PIPE, THE CONTRACTOR SHALL IDENTIFY THE LOCATION OF THE NEAREST LINE VALVES, SO IN THE EVENT OF AN EMERGENCY THE SECTION CAN BE ISOLATED.
4. WHERE THE EXCAVATION IS WITHIN THE ZONE OF INFLUENCE OF ROADWAYS (1/1 SLOPE) THE CONTRACTOR SHALL CONTACT THE AUTHORITY HAVING JURISDICTION OF THE ROADWAYS FOR PROPER BACKFILL PROCEDURES.
5. PIPE SHALL BE PVC C900 DR18 PIPE OVER 2" AND DR9 FOR 2" AND UNDER. NOTE: THE USE OF C905 AND C909 ARE NOT PERMITTED.
6. CONTRACTOR SHALL PROVIDE SUBMITTALS FOR TAPS 2" AND GREATER TO INCLUDE CATALOG DATA FOR SADDLES, SLEEVES, AND HOLE CUTTING DEVICE; OPERATING INSTRUCTIONS FOR WET-TAP MACHINES.

### TAPPING GENERAL

1. CORPORATION STOP ("CORP STOP"): CORP STOPS SHALL BE AWWA-TAPERED WITH THREAD COMPLYING WITH AWWA C800 IN SIZES 5/8", 3/4" AND 1". WHEN A TAP LARGER THAN 1 INCH IS REQUIRED, THE PIPE SHALL NOT BE DIRECT-TAPPED.
2. TAPS UP TO 2-INCH DIAMETER SHALL BE "SADDLE TAPPED". TAPS GREATER THAN 2-INCH DIAMETER SHOULD BE "SLEEVE TAPPED".
3. HANDHELD DRILL SHALL NOT BE USED TO TAP PVC PIPE. USE OF A TWIST DRILL, SPADE BIT, AUGER BIT, WOOD BIT, HOLE SAW, OR SIMILAR CUTTING DEVICE IS NOT RECOMMENDED AND MAY CAUSE THE PIPE TO CRACK. A SLOTTED CORE CUTTER WITH THREADS RECOMMENDED BY THE PIPE MANUFACTURER SHALL BE USED FOR DIRECT TAPPING PIPE.
4. TAPPING MACHINES SHOULD:
  - a. USE A SHELL-DESIGN CUTTING TOOL SUITABLE FOR PVC PIPE.
  - b. OPERATE USING A STANDARD RATCHET HANDLE ON THE BORING BAR TO ROTATE THE BORING BAR BY HAND.
  - c. BE CAPABLE OF MANUALLY ADVANCING THE BORING BAR INDEPENDENTLY FROM THE ROTATION (I.E., NO "AUTOMATIC" ADVANCE). TYPICALLY, THIS IS CONTROLLED BY A FEED NUT AND YOKE OR SIMILAR DEVICE.HAND-HELD DRILL: A HAND-HELD DRILL SHALL NOT BE USED TO TAP PVC PIPE.
5. LUBRICATION: BEFORE TAPPING, THE CUTTER SHALL BE LUBRICATED WITH A CUTTING GREASE RECOMMENDED BY THE CUTTER MANUFACTURER.
6. THREADS: VARIOUS CORPORATION STOP THREADS ARE AVAILABLE. FOR A LEAK-FREE CONNECTION, IT IS IMPORTANT THAT THE THREAD TYPE MATCH AND BE COMPATIBLE WITH THE PIPE, SADDLE, OR SLEEVE. THE CORPORATION STOP THREAD TYPE IS TYPICALLY AN ANSI/AWWA C800 TAPERED THREAD ALSO REFERRED TO AS A "CC" THREAD. IPS/NPT THREADED CORPORATIONS STOPS ARE ALSO AVAILABLE AND MAY BE USED.
7. PROBLEM CORRECTION: IF STRIATIONS, RAISED EDGES, OR MELTED PLASTIC ARE OBSERVED ON A COUPON, THE TAPPING PROCEDURE AND THE CONDITION OF THE TOOLS SHOULD BE RE-EXAMINED AND CORRECTED BEFORE ADDITIONAL TAPS ARE ATTEMPTED.



### PORTAGE COUNTY WATER RESOURCES

### PVC PRESSURE PIPE TAPPING STANDARDS

9-1-2023  
APPROVED DATE

WS-10A

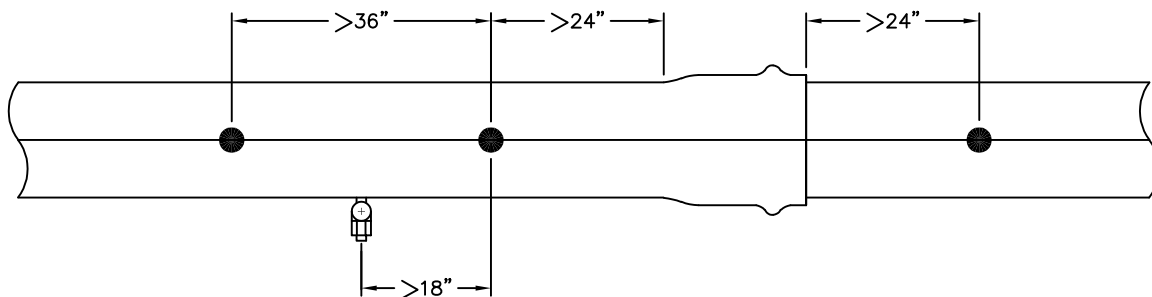
Guidance for Tapping Outlet Sizes: AWWA Pipe						
Pipe Material	Pipe Standard	Size (in.)	DR	Tapping Type		
				Direct Tap	Saddle Tap	Sleeve Tap
PVC	C900	4	ALL	≤1" diameter	≤2" diameter	Up to size-on-size
		6	18	≤1" diameter	≤2" diameter	Up to size-on-size
		8	18	≤1" diameter	≤2" diameter	Up to size-on-size
		10	ALL	≤1" diameter	≤2" diameter	Up to size-on-size
		12	ALL	≤1" diameter	≤2" diameter	Up to size-on-size

Direct Tapping: AWWA Pipe					
Pipe Material	Pipe Standard	Size (in.)	DR	Comment	
				Not recommended	
PVC	C900	4	ALL	≤1" diameter	
		6	18	≤1" diameter	
		8	18	≤1" diameter	
		10	ALL	≤1" diameter	
		12	ALL	≤1" diameter	

#### TAP LOCATION ON MAINLINE PIPE

1. FOR 12-INCH PIPE OR SMALLER, THE TAP SHOULD NOT BE LOCATED CLOSER THAN 24" FROM:

- THE BACK OF THE BELL (WHERE THE BELL TRANSITIONS TO THE BARREL OF THE PIPE)
- THE SPIGOT INSERTION LINE
- JOINT-RESTRAINT HARDWARE



1. FOR 14-INCH PIPE OR LARGER, THE TAP SHOULD NOT BE LOCATED CLOSER THAN 36 INCHES FROM:

- THE BACK OF THE BELL (WHERE THE BELL TRANSITIONS TO THE BARREL OF THE PIPE)
- THE SPIGOT INSERTION LINE
- JOINT-RESTRAINT HARDWARE
- FOR ALL PIPE, STAGGER MULTIPLE TAPS AND KEEP THEM AT LEAST 18 INCHES APART LENGTHWISE. THUS, THE MINIMUM SPACING ALONG THE SAME LINE IS 36 INCHES.

## PROCEDURES FOR TAPPING OF WATER MAIN

THE CONTRACTOR SHALL MAKE ALL SADDLES, TAPPING COUPLINGS, SLEEVES, AND VALVES (IF REQUIRED) AVAILABLE FOR INSPECTION BY PCWR PRIOR TO INSTALLATION. ITEMS SUBJECT TO INSPECTION SHALL CONSIST OF, BUT NOT BE LIMITED TO, EXCAVATION FOR THE CONNECTION, TAPPING THE MAIN, CLEANING THE OUTSIDE OF THE PIPE, INSTALLING THE SADDLE OR SLEEVE AND VALVE, IF NECESSARY, TESTING THE SLEEVE, MAKING THE WET-TAP, APPLYING CORROSION PROTECTION, CONNECTING AND WRAPPING THE LOCATING WIRE, BACKFILLING, AND SURFACE RESTORATION. INSTALLATION OF TAPPING SLEEVES SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND THESE SPECIFICATIONS. A CALIBRATED TORQUE WRENCH SHALL BE USED TO ACHIEVE ALL RECOMMENDED TORQUES. AFTER EXCAVATING THE WATER MAIN AND IMMEDIATELY PRIOR TO INSTALLING THE SLEEVE, REMOVE ALL DIRT, GREASE, OIL AND FOREIGN MATERIAL FROM THE OUTSIDE OF THE WATER MAIN. THE WATER MAIN SHALL THEN BE THEN RINSED THOROUGHLY WITH WATER. INSTALL THE TAPPING SLEEVE WITH PARTICULAR ATTENTION TO POSITION OF GASKETS, "O" RINGS, AND SEALS. BOLTS SHALL BE DRAWN UP AND TORQUED TO MANUFACTURER'S SPECIFICATIONS IN A UNIFORM AND ACCEPTED PATTERN. THE TAPPING VALVE SHALL BE INSTALLED ON THE FLANGE, AS RECOMMENDED BY THE VALVE MANUFACTURER. THE DOWNSTREAM FLANGE OF THE VALVE SHALL BE BLOCKED TEMPORARILY SO AS TO ACCEPT THE WEIGHT OF THE VALVE AND THE TAPPING MACHINE. THE SLEEVE AND VALVE INSTALLATION SHALL BE HYDRAULICLY TESTED FOR LEAKS PRIOR TO INSTALLING THE TAPPING MACHINE. THE SLEEVE SHALL BE PRESSURIZED WITH WATER THROUGH THE TEST COUPLING TO AT LEAST 100% OF THE SYSTEM WORKING PRESSURE AT THE POINT OF THE TAP. CARE SHALL BE TAKEN TO INSURE THAT WORKING PRESSURE IS MAINTAINED IN THE WATER MAIN FOR THE DURATION OF THE TEST. THE TESTING EQUIPMENT SHALL BE FITTED WITH AN APPROPRIATE GAUGE. AFTER TEST PRESSURE IS ACHIEVED, THE COMPLETE INSTALLATION SHALL BE INSPECTED VISUALLY FOR LEAKS. THEN, ALL JOINTS SHALL BE TESTED WITH A SOLUTION OF SOAP AND WATER. ALL VISIBLE LEAKS SHALL BE REPAIRED IN A MANNER APPROVED BY PCWR. THE TEST PRESSURE SHALL THEN BE MAINTAINED ON THE GAUGE WITHOUT ANY FURTHER AID FROM THE PRESSURE SOURCE, FOR A PERIOD OF 10 MINUTES WITHOUT ANY PERCEIVABLE DECLINE IN PRESSURE. IF THE PRESSURE DECLINES, THE VISUAL TEST SHALL BE REPEATED. THE WATER MAIN SHALL NOT BE TAPPED IF A LEAK IS PRESENT. IF THE TAPPING VALVE IS THE SUSPECTED SOURCE OF LEAKAGE, THE VALVE SHALL BE REPLACED AND THE TEST REPEATED. THE CONCRETE BLOCK SHALL BE FORMED AND EXTENDED UNDERNEATH THE SLEEVE AND THE VALVE SO AS TO PROVIDE SUPPORT ONCE THE TEMPORARY BLOCKS ARE REMOVED. ALL BOLTS AND CONNECTORS SHALL BE PROTECTED AGAINST CONTACT WITH THE CONCRETE BY WRAPPING WITH POLYETHYLENE FILM, AS REQUIRED FOR CORROSION PROTECTION. THE TAP SHALL BE PERFORMED IN ACCORDANCE WITH THE TAPPING MACHINE MANUFACTURER'S RECOMMENDATIONS. THE TAPPING MACHINE SHALL BE SUPPORTED AND BLOCKED SO AS TO REDUCE STRAIN ON THE SLEEVE, VALVE, OR WATER MAIN. NOTE: PVC PIPE SHALL BE TAPPED USING A RIBBON CUTTING BIT ONLY. DO NOT USE A DRILL OR HOLE SAW-TYPE BIT. THE COUPON SHALL BE REMOVED WITH THE TAPPING MACHINE. IF, FOR WHATEVER REASON, THE COUPON IS NOT RECOVERED WITH THE MACHINE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR COUPON RETRIEVAL FROM THE SYSTEM AND SHALL COOPERATE FULLY WITH DIRECTIONS GIVEN BY PCWR WHILE LOCATING AND REMOVING THE COUPON. UPON REMOVAL OF THE TAPPING MACHINE, THE ENTIRE TAPPING SLEEVE AND VALVE ASSEMBLY SHALL BE INSPECTED FOR WATER LEAKS. ALL VISUAL LEAKS SHALL BE REPAIRED. ALL REPAIR METHODS SHALL BE SUBJECT TO PCWR APPROVAL. THE VALVE SHALL BE OPENED ENOUGH TO FLUSH ANY SHAVINGS, CHIPS, AND DEBRIS FROM THE WATER MAIN.



### PORTAGE COUNTY WATER RESOURCES

PVC PRESSURE PIPE  
TAPPING STANDARDS

9-1-2023  
APPROVED DATE

WS-10C