

6.4 PD 19-04: Use of 1" PEX-A Pipe

Effective Date: April 25, 2019

Policy Document 19-04: Use of PEX-A Pipe in the Installation of Water Service Lines

This policy outlines the criteria for the use of 1" PEX-A pipe for the installation of water services utilizing 5/8" or 3/4" water meters.

Installations utilizing 1" PEX-A pipe will only be allowed from the start of a new Project Section that has been approved by Spotsylvania County on the Project Site Plan. The use of PEX-A pipe will not be allowed in a Project Section that has already been started and is currently ongoing. The Developer, Contractor, or other Authorized Official, must complete an *Authorization Form – Use of PEX-A in the Installation of Water Service Lines for Existing Approved Projects* and submit it to the Spotsylvania County Utilities Department for review. The Authorization Form must be reviewed, signed, and returned to the Authorized Official before PEX-A may be used.

This policy amends Section 3.4.2.9 in the *Spotsylvania County Utilities Water and Sewer Design and Construction Manual* that states that all water service pipe shall be 1" or 3/4" Type "K" copper domestic manufactured pipe. Spotsylvania County will allow the use of 1" PEX-A pipe with internal stainless steel sleeves for the installation of water services on and after the effective date for this policy document.

PEX-A shall meet the requirement of ASTM F876, ATSM F877 and AWWA C904. PEX-A shall also be rated for 200 psi, be blue in color, and have a one year or greater UV warranty. A single continuous run of PEX-A pipe shall extend from the 1" corporation stop to the meter setting.

Fittings shall be no-lead brass meeting the requirements of AWWA C800. All connections to the main and the meter set shall be made with compression joints and internal stainless steel sleeves. Flare fittings will not be permitted.

Tracing wire shall be used on all PEX-A installations in accordance with Section 3.2.3.10 of the *2018 Spotsylvania County Utilities Water and Sewer Design and Construction Manual* with the deviation that electrical tape must be used at a maximum interval of every 3-feet to attach the tracing wire to the pipe. Duct tape is not permitted, as it may cause damage to the PEX-A pipe.

The following items have been approved for use in the Spotsylvania County water system and must be used with 1" PEX-A installations. All installations must be done in accordance with standard details W4-C and W4-D found on pages 3-4 of this Policy Document:

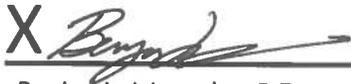
- A. PEX-A, 1" Service Lines
 - 1. REHAU MUNICIPEX

- B. 5/8" X 3/4" Pronged yoke bar
 - 1. AY McDonald – 14-2P
 - 2. Mueller – H-5020P
 - 3. Ford – Y502P
- C. 3/4" Pronged yoke bar
 - 1. AY McDonald – 14-3P
 - 2. Mueller – H-5030P
 - 3. Ford – Y503P

Exemptions to this policy:

- A. No cross-linked polyethylene pipe may be used for the installation of water services at a site that has soils contaminated by hydrocarbons or solvents. Industrial sites that are being redeveloped may be susceptible to these soil conditions. If requested by Spotsylvania County, soil testing for the presence of hydrocarbons and solvents will be required.

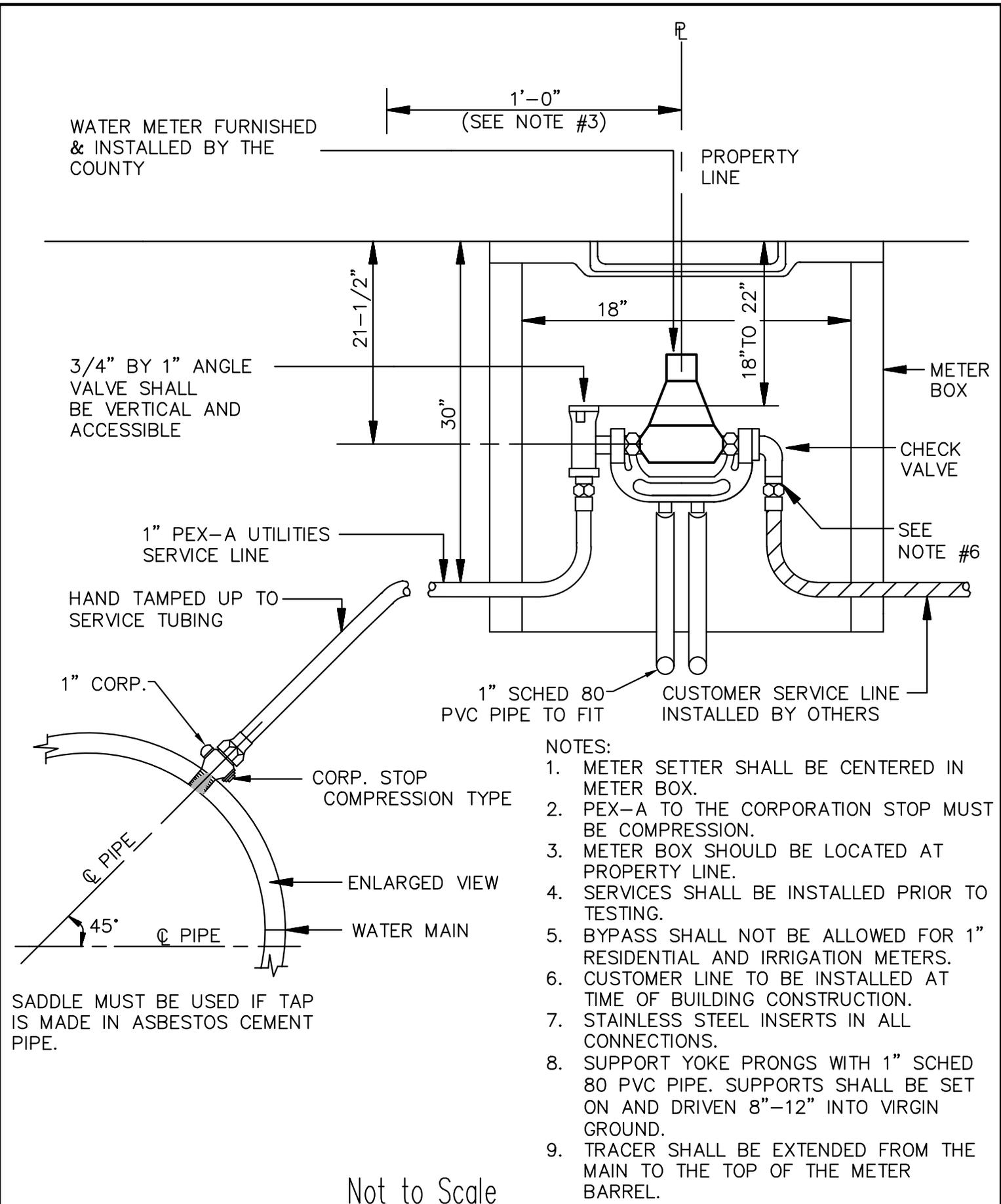
This document does not restrict the use of 3/4" Type K copper pipe.

X 

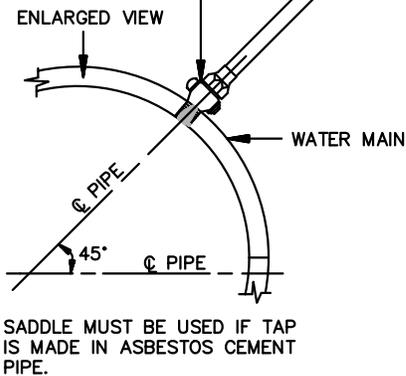
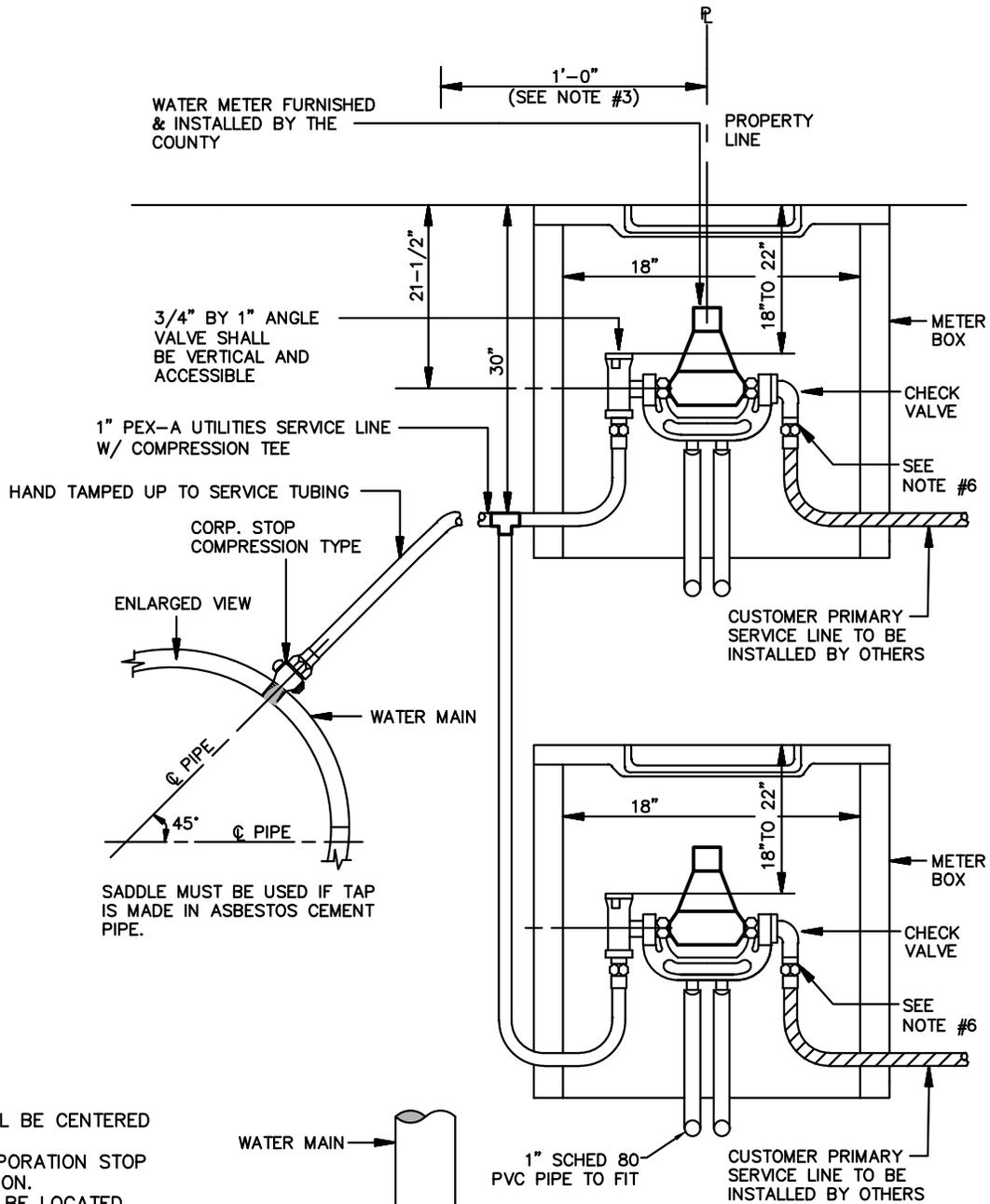
Benjamin L. Loveday, P.E.
Director UT/PW

04/25/2019

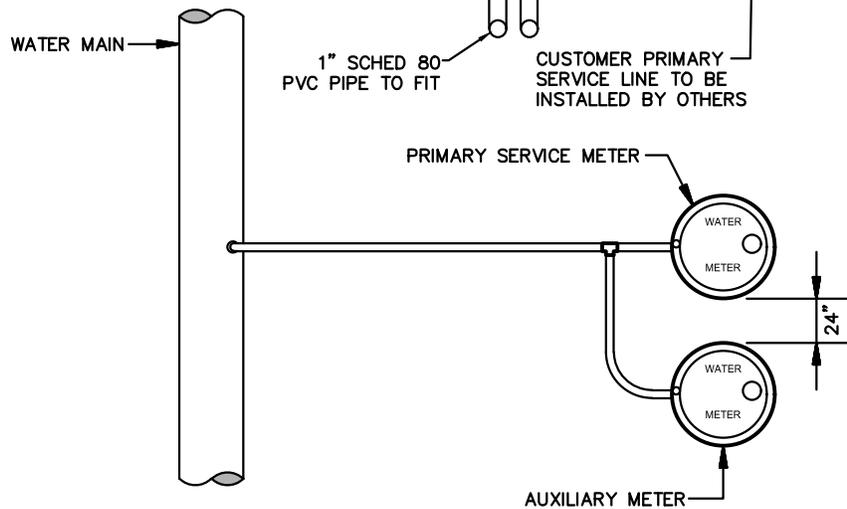
Date



DATE April 2019	Spotsylvania County Department of Utilities	Water Meter Setting 5/8" & 3/4"	DRWG. NO. W4-C
REVISIONS			



- NOTES:
1. METER SETTER SHALL BE CENTERED IN METER BOX.
 2. PEX-A TO THE CORPORATION STOP MUST BE COMPRESSION.
 3. METER BOX SHOULD BE LOCATED AT PROPERTY LINE.
 4. SERVICES SHALL BE INSTALLED PRIOR TO TESTING.
 5. BYPASS SHALL NOT BE ALLOWED FOR 1" RESIDENTIAL AND IRRIGATION METERS.
 6. CUSTOMER LINE TO BE INSTALLED AT TIME OF BUILDING CONSTRUCTION.
 7. STAINLESS STEEL INSERTS IN ALL CONNECTIONS.
 8. SUPPORT YOKE PRONGS WITH 1" SCHED 80 PVC PIPE. SUPPORTS SHALL BE SET ON AND DRIVEN 8"-12" INTO VIRGIN GROUND.
 9. TRACER SHALL BE EXTENDED FROM THE MAIN TO THE TOP OF THE METER BARREL.



Not to Scale

DATE April 2019	Spotsylvania County Department of Utilities	Auxiliary Meter Setting 5/8" & 3/4"	DRWG. NO. W4-D
REVISIONS			