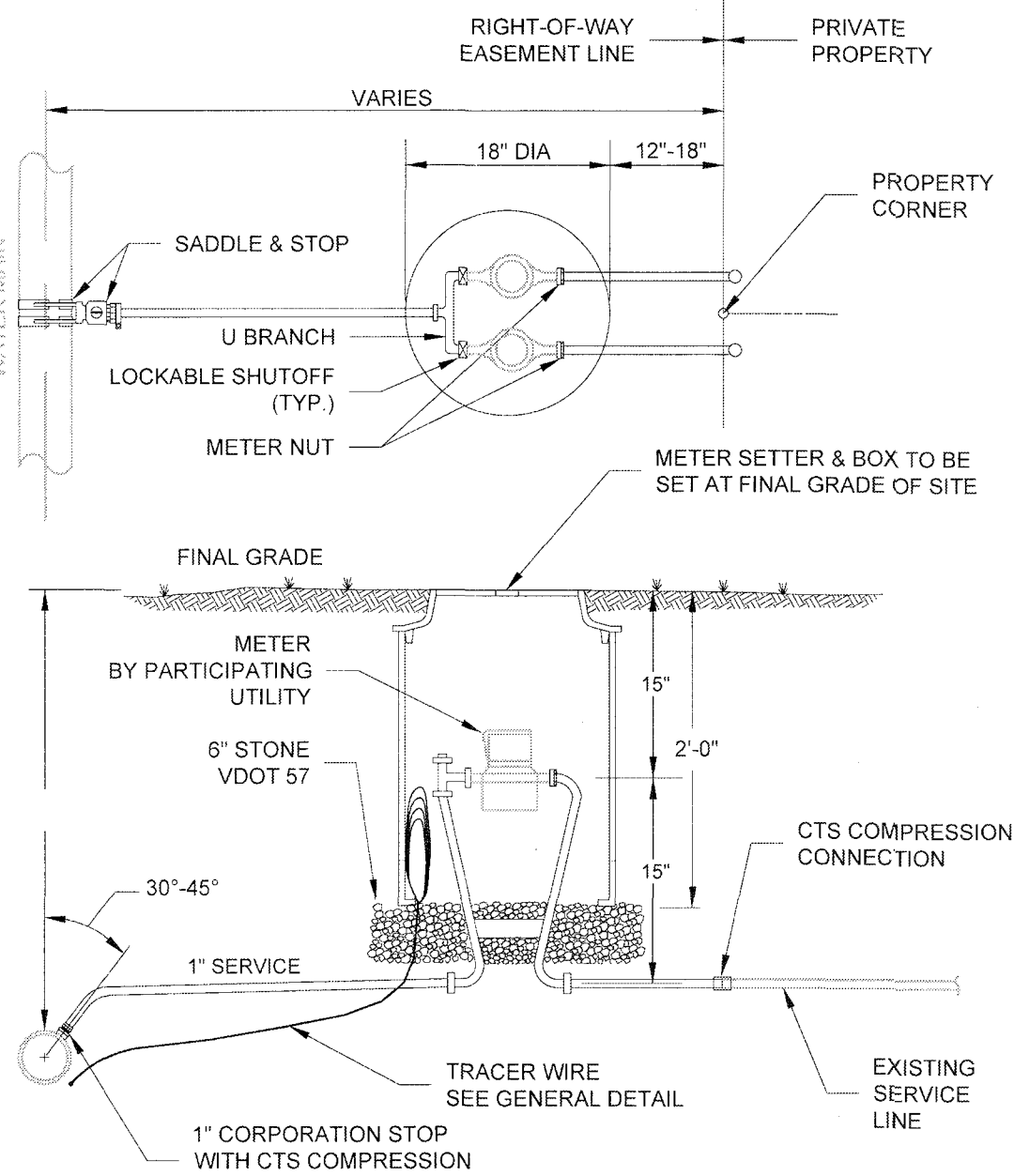


2. SADDLE TO BE A Y. McDONALD 720-215 WXKD03. FORD V872-15W-11133 OR APPROVED EQUAL.
3. SADDLES MUST BE USED WITH ALL PLASTIC DUCTILE IRON PIPE. SERVICE SADDLES SHALL BE USED IN ACCORDANCE WITH WATER DISTRIBUTION PIPING SPECIFICATION. SERVICE SADDLES FOR PLASTIC PIPE SHALL BE UNIVERSAL 3417, OR 3412AS, ROMAC 2208, OR 306, OR FORD METER FS202 OR FS303. FOR DUCTILE IRON PIPE, SADDLES SHALL BE 3417, OR 3412AS, ROMAC 2208, OR 306, OR FORD METER FS202 OR FS303.
4. METER BOX SHALL BE CARBON/STAINLESS PLASTIC OR IN PLASTIC BOX WITH FORD "A" DOMESTIC METER SERVICE FRAME WITH A NICOR DOMESTIC 12 25 CX ILL WITH SENSUS RECESS, ADS CORRUGATED HOPE BOX WITH FORD "A" DOMESTIC METER SERVICE FRAME WITH A NICOR DOMESTIC 12 25 CX ILL WITH SENSUS RECESS OR APPROVED EQUAL. METER BOX SHALL NOT BE PLACED IN AREAS SUBJECT TO VEHICULAR TRAFFIC. IF TRAFFIC BEARING BOX IS REQUIRED, DESIGN ENGINEER SHALL CONSULT WITH PARTICIPATING AGENCIES FOR ADEQUATE STRENGTHENING OF THE BOX.
5. WHENEVER SIDEWALK EXISTS OR IS PROPOSED, MODIFY METER LOCATION AS DIRECTED.
6. CORPORATION STOP SHALL BE FORD FB10040-G-CPN, MUELLER B-25008 OR APPROVED EQUAL.
7. SERVICE SADDLE SHALL BE "K" TYPE COPPER, OR COPPER TUBE SIZE POLYETHYLENE (PE) 4710. SODR-9 (200 psi).

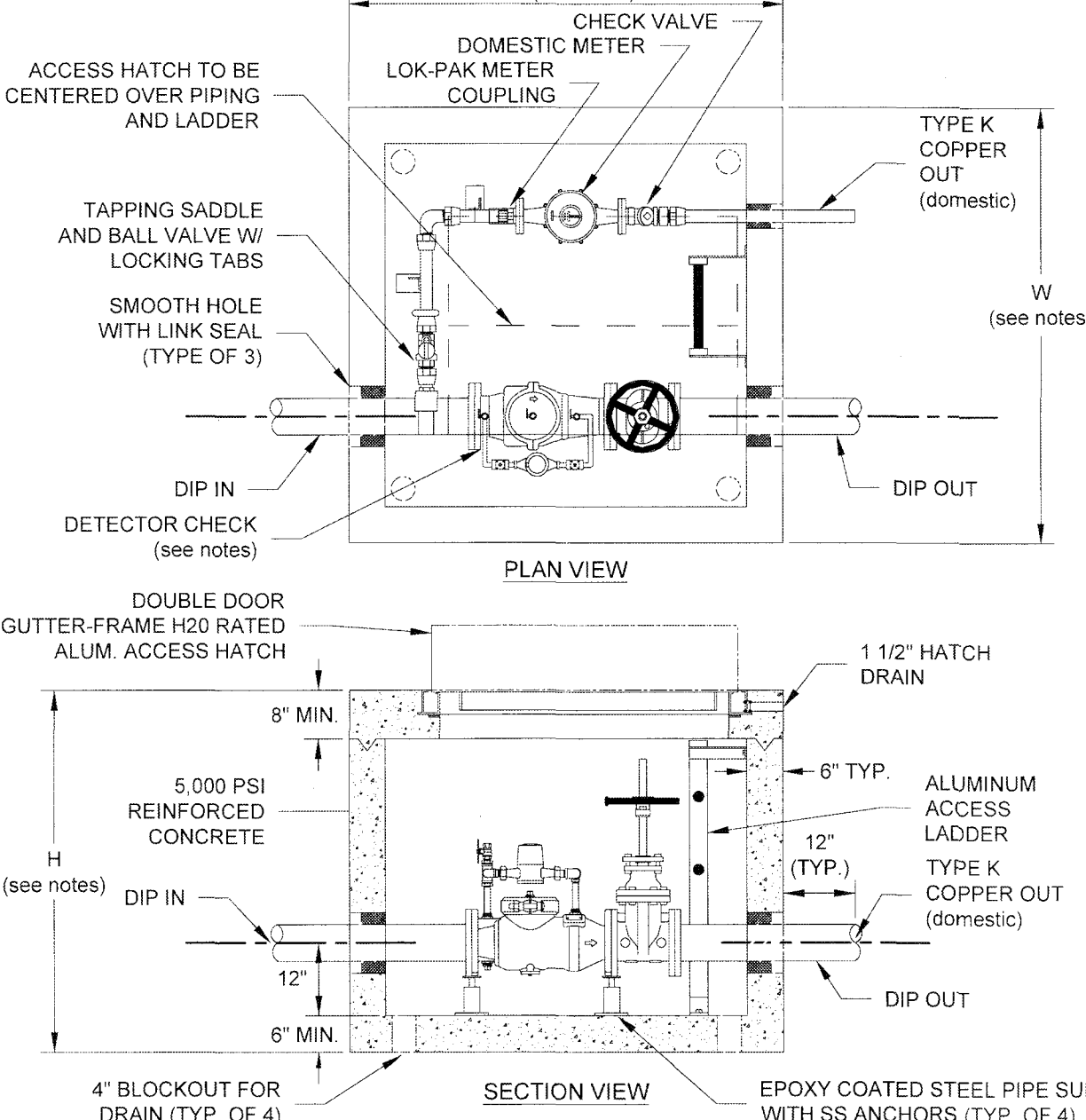


WESTERN VIRGINIA REGIONAL - CONSTRUCTION DETAIL

DOUBLE RESIDENTIAL  
WATER SERVICE  
(REPLACEMENT OF EXISTING SERV

W-4

1. FOR 6" FIRE LINE, EXTERIOR VALVE DIMENSIONS SHALL BE (L X W X H) 6' X 6' X 5' WITH DOMESTIC TAP MADE INSIDE VAULT AS SHOWN BELOW
2. FOR 8" FIRE LINE EXTERIOR VALVE DIMENSIONS SHALL BE (L X W X H) 6' X 6' X 6' WITH DOMESTIC TAP MADE INSIDE VAULT AS SHOWN BELOW
3. FOR 10" FIRE LINE EXTERIOR VALVE DIMENSIONS SHALL BE (L X W X H) 6' X 6' X 6' WITH DOMESTIC TAP FOR ISOLATION OF DOMESTIC METER
4. SINGLE DETECTOR CHECK VALVE SHALL BE WILKINS 30 DALM , WATTS ES-S047 - BP, OR APPROVED EQUIV WITH FLANGED END CONNECTIONS, BYPASS ASSEMBLY, AND ONE OSAGT GATE VALVE
5. BYPASS ASSEMBLY SHALL BE 2" NPT 2 BALL VALVE
6. DOMESTIC SHALL BE TYPE K COPPER WITH GRIP JOINT FITTINGS, BALL VALVE AT TAPPING SADDLE (WITH LOCKING TABS) AND CHECK VALVE ON OUTLET
7. DOMESTIC METER AND BIPASS METER, TO BE SUPPLIED BY OWNER AND INSTALLED BY VENDOR
8. "UN" FLANGED" ADAPTOR FLANGE, OR APPROVED EQUIV, OR FLANGED - PLAN END PIPING REQUIRED FOR INLET AND OUTLET PIPING
9. VAULT TO BE INSTALLED ON MIN. 6" COMPACTED VDOT #57 STONE WITH FILTER FABRIC PLACED BETWEEN BOTTOM OF VAULT AND 6" BEDDING. FOOTER SHALL BE EXTENDED VERTICALLY A MINIMUM OF 6" ON ALL FOUR SIDES OF VAULT.

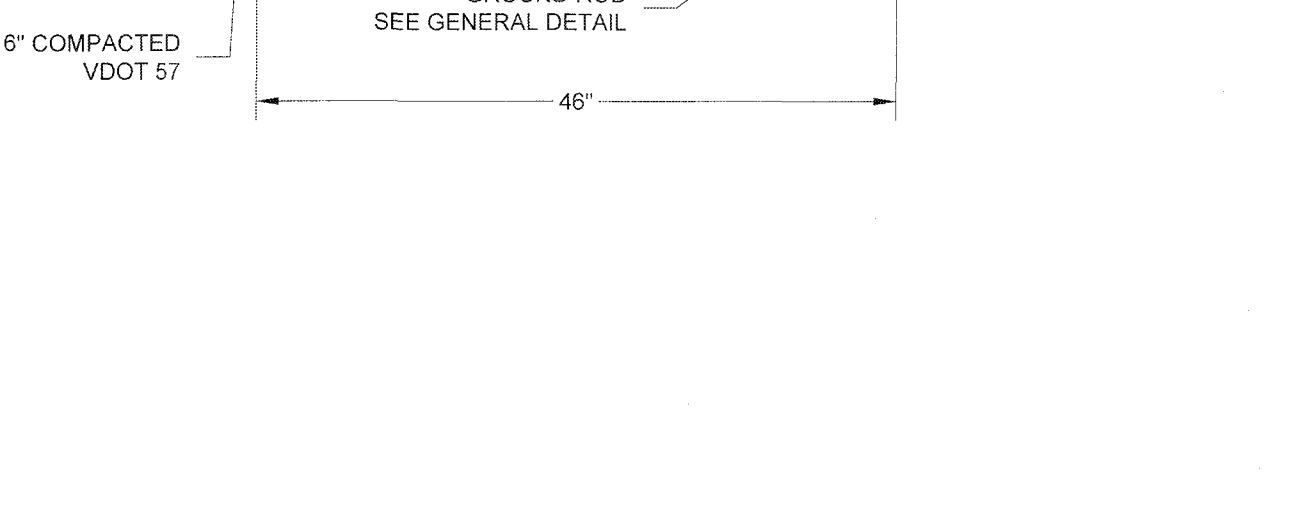


WESTERN VIRGINIA REGIONAL - CONSTRUCTION DETAIL

COMMERCIAL METER VAULT

W-

1. FILTER FABRIC TO BE INSTALLED BETWEEN BOTTOM OF PIPE AND STONE BEDDING. FABRIC TO EXTEND VERTICALLY A MINIMUM OF 6" FROM BOTTOM OF VAULT (FULL CIRCUMFERENCE).

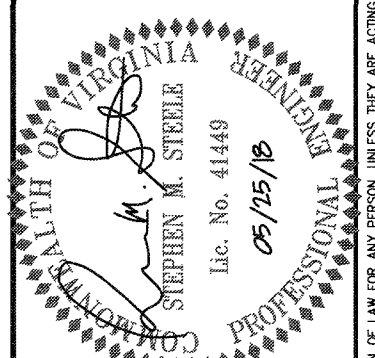


### WATER LINE VALVE & VAULT

01/01/14

WESTERN VIRGINIA  
WATER AUTHORITY

WESTERN VIRGINIA WATER AUTHORITY  
ROANOKE, VIRGINIA



THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED. THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY, IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE

WESTERN VIRGINIA WATER AUTHORITY

SUNNYBROOK DRIVE  
WATER MAIN REPLACEMENT

ROANOKE COUNTY, VIRGINIA

| No. | Submitted / Revision | Appl. By | Date    |
|-----|----------------------|----------|---------|
| 1   | 90% SUBMITTAL        | SMS MBH  | 5-18-18 |
| 2   | CLIENT REVIEW        | SMS MBH  | 5-25-18 |
|     |                      |          |         |
|     |                      |          |         |
|     |                      |          |         |
|     |                      |          |         |
|     |                      |          |         |

## WATER DETAILS

|                         |                      |                    |
|-------------------------|----------------------|--------------------|
| Designed By:<br>MBH     | Drawn By:<br>RAS     | Checked By:<br>LES |
| Issue Date:<br>05/18/18 | Project No:<br>33834 | Scale:<br>AS SHOWN |

Drawing No.:

**C-502**