



HILL
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PARK STREET SQUARE
CITY OF ROANOKE WATER DETAILS
ROANOKE, VIRGINIA

Date: JUNE 13, 2006
Scale: 1" = 20'
Revisions:

Drawn By: PJB/TPPS
Review By: PJB
Project No. 06-0021-02
HILL STUDIO NO. 0539

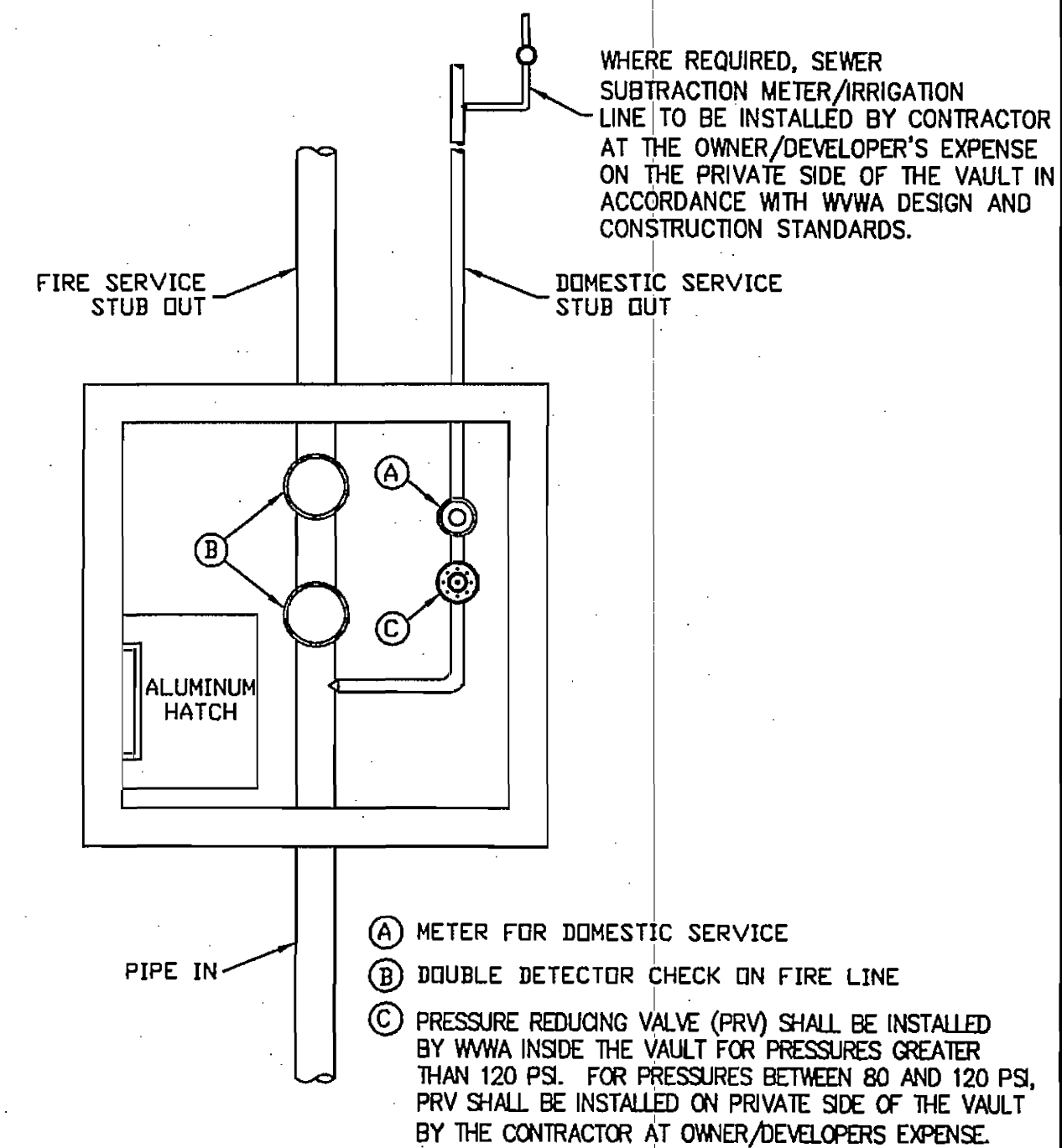
C14

FIRE VAULT SERVICE AND CONSTRUCTION

2003 PROJECT NOTE: THIS PROJECT INCLUDES TAPPING TO AN EXISTING 10-INCH WATERLINE IN 5TH STREET AND PROVIDING A FIRE VAULT FOR SPRINKLER SERVICE TO EACH BUILDING, EXCLUDING BUILDINGS 4 & 5.

THE FIRE VAULT SHALL BE AN 8-INCH FIRE VAULT WITH 3-INCH DOMESTIC SERVICE IN CONCRETE VAULT WITH WATERTIGHT LID AND PITLID, AS CONSTRUCTED BY "THE CLEARFLOW COMPANY", 1321 DELPHINE AVENUE, WAYNESBORO, VIRGINIA, 22980, (BEN HOUSEKNECT (540) 949-8389), OR APPROVED EQUAL AS DIRECTED BY THE CITY OF ROANOKE. VAULT SIZE IS 5' X 9'.

REVISED 2006: THE CONTRACTOR SHALL COORDINATE WITH THE WVWA TO VERIFY IF WVWA WILL CONSTRUCT WATER VAULT OF IF THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION. IN 2003, THE CITY OF ROANOKE WAS TO CONSTRUCT THE WATER VAULT.



- NOTES:
1. FOR 6" FIRE LINE, EXTERIOR VAULT DIMENSIONS SHALL BE 6' X 6'
 2. FOR 8" FIRE LINE, EXTERIOR VAULT DIMENSIONS SHALL BE 11' X 7'
 3. VAULT TO BE FURNISHED AND INSTALLED BY WVWA AT OWNER/DEVELOPERS EXPENSE.

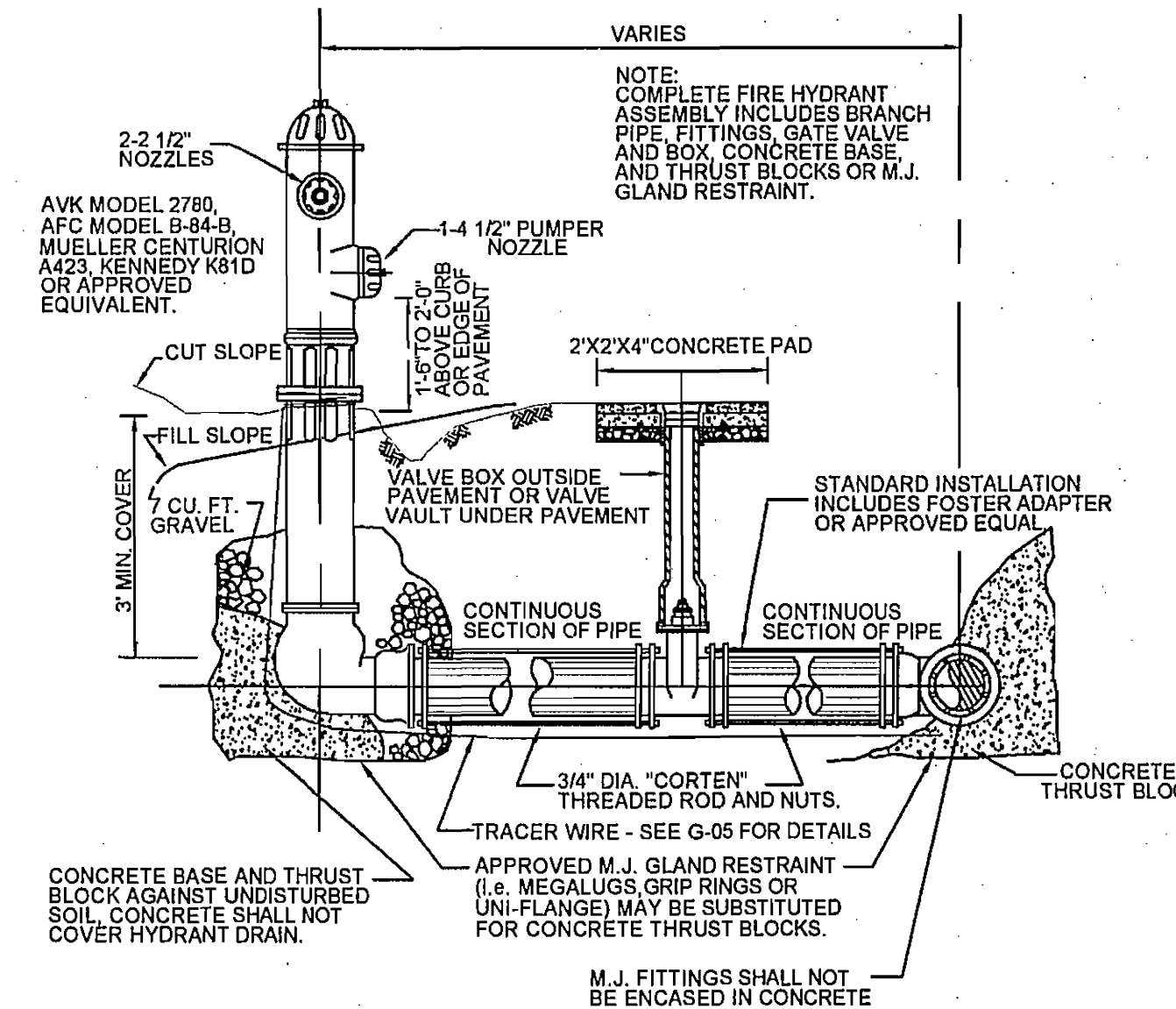
WESTERN VIRGINIA WATER AUTHORITY - CONSTRUCTION STANDARDS

REVISION DATE	WATER VAULT	W-26
07/01/04		
03/01/06		

WESTERN VIRGINIA WATER AUTHORITY - CONSTRUCTION STANDARDS

REVISION DATE	AUTOMATIC AIR RELEASE ASSEMBLY FOR DEEP WATER LINES	W-13
07/01/04		
03/01/06		

- NOTES:
1. PUBLIC HYDRANTS SHALL BE PAINTED SILVER WITH AN OIL-BASED PAINT AND PRIVATE HYDRANTS SHALL BE PAINTED WHITE WITH AN OIL-BASED PAINT.
 2. FIRE HYDRANT SHALL BE INSTALLED 2' MIN. AND 4' MAX. FROM BACK OF CURB OR 6' MIN. AND 12' MAX. WHEN CURB IS NOT PRESENT. FIRE HYDRANT TO BE INSTALLED WITHIN RIGHT-OF-WAY OR EASEMENT LINE.
 3. AREA AROUND HYDRANT AT A RADIUS OF 4' TO BE LEVEL AND UNOBSERVED.
 4. WATERPROOF BAGS SHALL BE PLACED OVER ALL NEWLY INSTALLED FIRE HYDRANTS.
 5. HIGH PRESSURE (OVER 120 PSI) REQUIRES THE USE ALL 3 RESTRAINTS.

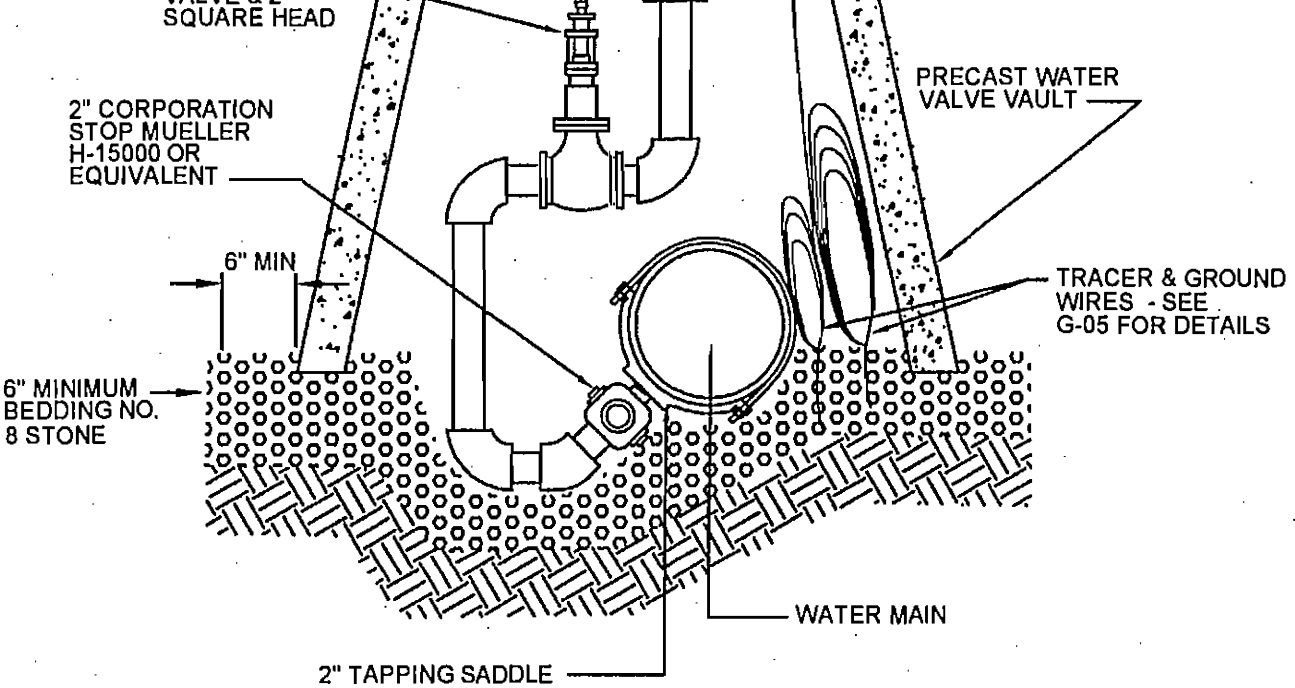


WESTERN VIRGINIA WATER AUTHORITY - CONSTRUCTION STANDARDS

REVISION DATE	FIRE HYDRANT ASSEMBLY	W-18
07/01/04		
03/01/06		

WESTERN VIRGINIA WATER AUTHORITY - CONSTRUCTION STANDARDS

REVISION DATE	IN-LINE BLOW-OFF ASSEMBLY	W-11
07/01/04		
03/01/06		



WESTERN VIRGINIA WATER AUTHORITY - CONSTRUCTION STANDARDS

REVISION DATE	IN-LINE BLOW-OFF ASSEMBLY	W-11
07/01/04		
03/01/06		

OTHER WVWA DETAILS ALSO APPLY TO THIS PROJECT, INCLUDING BUT NOT LIMITED TO: W-16, W-19, W-20, W-23, W-24, W-25.

REFERENCE IS DIRECTED TO THE WVWA WATER & SEWER DESIGN & CONSTRUCTION STANDARDS FOR DETAILS ON WATERLINE INSTALLATION AND APPURTENANCES AS WELL AS SANITARY SEWER LATERAL INSTALLATION AND APPURTENANCES.

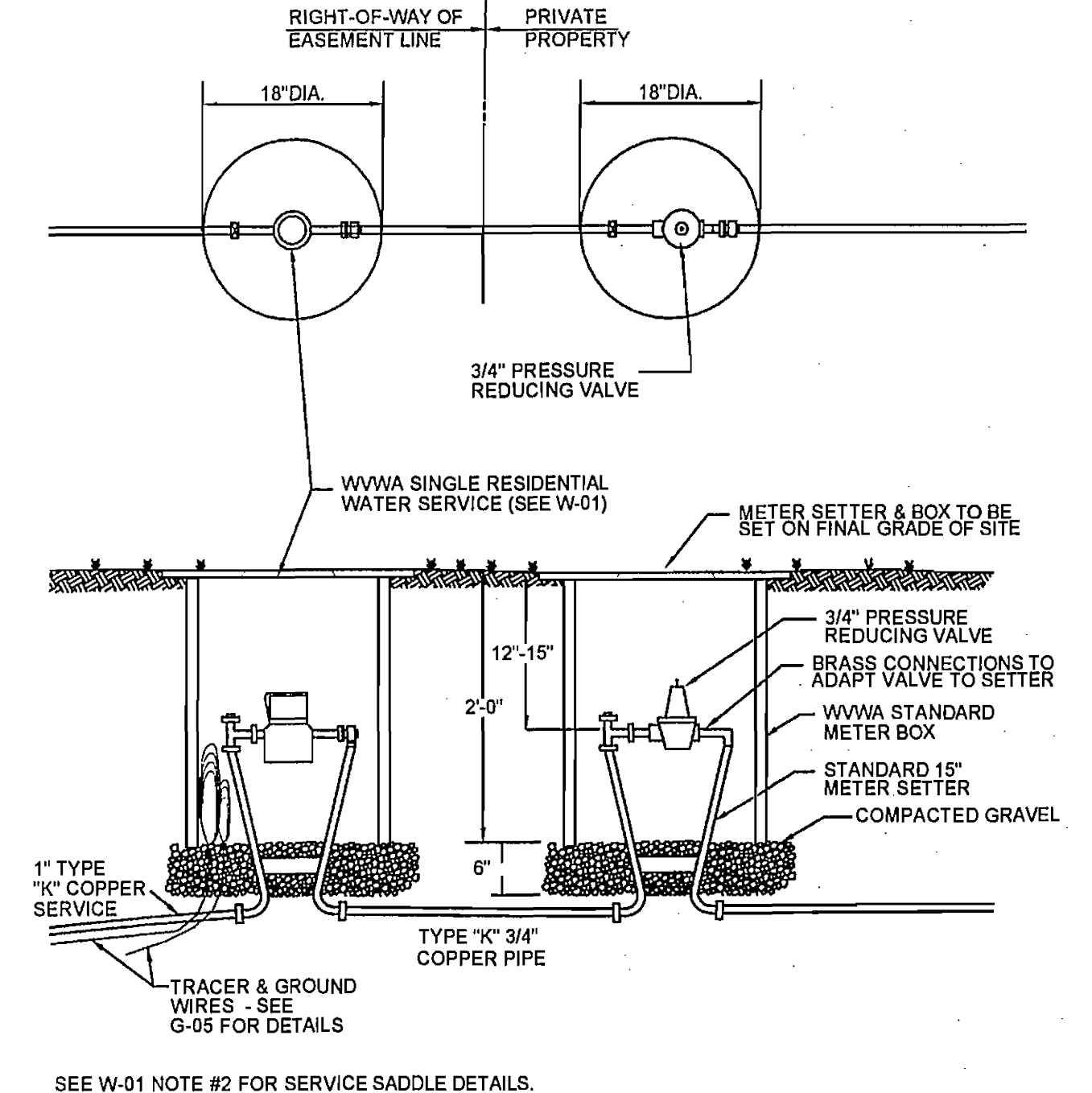
WESTERN VIRGINIA WATER AUTHORITY - CONSTRUCTION STANDARDS

REVISION DATE	WATER LINE VALVE INSTALLATION	W-08
07/01/04		
03/01/06		

1. FIRE HYDRANTS MAY BE USED AT LOWPOINTS IN PLACE OF BLOW-OFFS WHERE IT IS DEMONSTRATED THAT A MINIMUM FLUSHING VELOCITY OF 4 FT/S IS PROVIDED.
2. LINE AND "STREET EL" BETWEEN CORPORATION STOP AND 2" GATE VALVE SHALL BE BRASS

WESTERN VIRGINIA WATER AUTHORITY - CONSTRUCTION STANDARDS

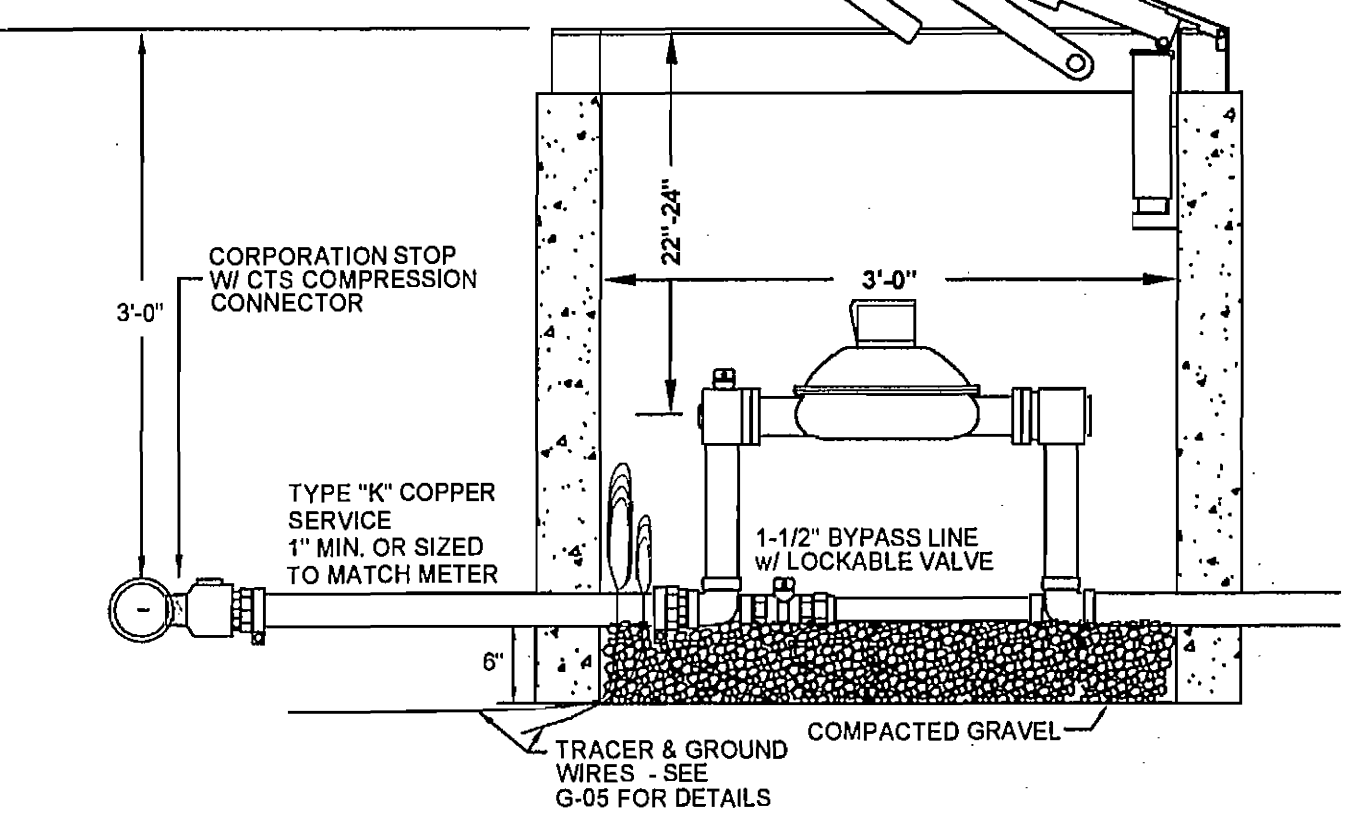
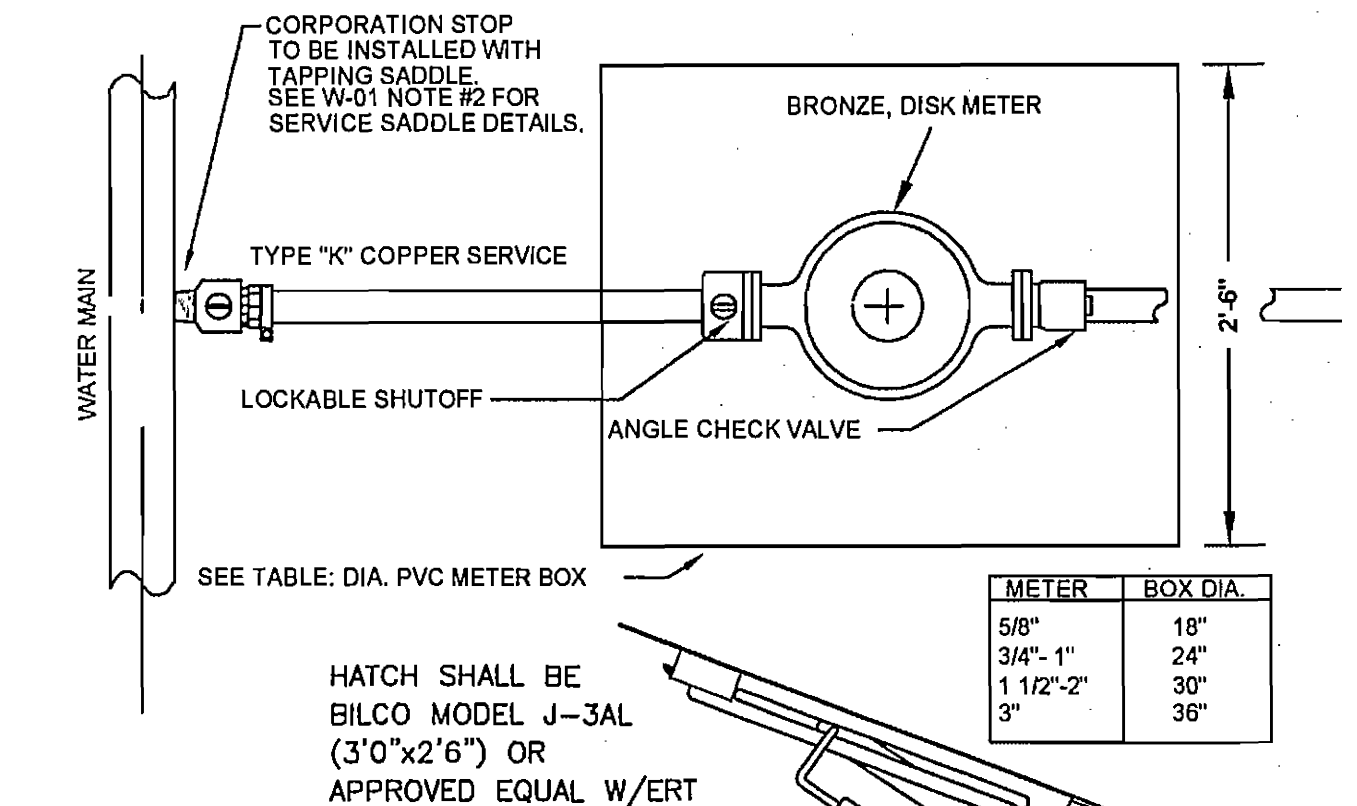
REVISION DATE	TYPE "B" SINGLE RESIDENTIAL WATER SERVICE (LINE PRESSURE UNDER 80 TO 120 PSI)	W-02
07/01/04		
03/01/06		



1. THIS CONFIGURATION REQUIRED WHEN WATER PRESSURE AT THE WATER MAIN IS BETWEEN 80 AND 120 PSI.

WESTERN VIRGINIA WATER AUTHORITY - CONSTRUCTION STANDARDS

REVISION DATE	TYPE "B" SINGLE RESIDENTIAL WATER SERVICE (LINE PRESSURE UNDER 80 TO 120 PSI)	W-02
07/01/04		
03/01/06		



WESTERN VIRGINIA WATER AUTHORITY - CONSTRUCTION STANDARDS

REVISION DATE	COMMERICAL WATER SERVICE	W-05
07/01/04		
03/01/06		

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