



#### NOTES:

1. FOR ULTRASONIC METER VAULT AND PIPING DETAILS, SEE DETAIL W/14.0 AND W/14.0a
2. PROVIDE M.J. SOLID SLEEVE WHERE SHOWN WITH WEDGE ACTION RESTRAINER GLAND, SEE SPECIFICATIONS. TOLERANCE BETWEEN PIPE ENDS SHALL NOT EXCEED 1/2". DO NOT USE PIPE SPACERS, SEE SPECIFICATIONS.
3. ONLY DUCTILE IRON PIPE AND FITTINGS, EXCEPT AS NOTED. SEE DRAWINGS FOR SIZES.
4. RESTRAIN ALL JOINTS ON BY-PASS PIPING FROM TEE TO TEE WITH WEDGE ACTION RESTRAINER GLANDS, SEE SPECIFICATION. RESTRAIN ALL JOINTS ON FIRE HOSE CONNECTION WITH WEDGE ACTION RESTRAINER GLANDS, SEE SPECIFICATION.
5. PROVIDE EXTENSION STEMS AND VALVE BOXES FOR ALL BURIED VALVES, SEE DETAIL W/2.2.
6. POLYETHYLENE ENCASEMENT FOR ALL DUCTILE IRON PIPE AND FITTINGS. SEE DETAIL W/2.8 FOR CONCRETE INTERFACE.
7. PROVIDE RUBBER ANNULAR HYDROSTATIC SEALING DEVICES FOR ALL PIPE THROUGH WALL CONNECTIONS, SEE SPECIFICATIONS.
8. WHEN 12" ULTRASONIC METERS ARE REQUIRED, USE 10" ULTRASONIC, SEE W/14.0b. SERVICE PIPING AND BY-PASS SHALL BE 12"DIA.

BY-PIPE SIZE	
FM METER SIZE	BY-PASS PIPE SIZE
4"	4"
6"	6"
8"	8"
10"	10"

"A" DIMENSION (SEE DETAIL W/14.0 and W/14.0a)	
FM METER SIZE	"A" (LENGTH OF METER)
4"	33"
6"	45"
8"	53"
10"	68"

WASHINGTON  
SUBURBAN  
SANITARY  
COMMISSION

APPROVED:

*9/29/16*  
  
Chief Engineer

STANDARD DETAIL

4-INCH, 6-INCH AND 8-INCH  
ULTRASONIC METER VAULT  
PIPING LAYOUT

W  
14.0b