



FULL RESILIENT SEATED GATE VALVE TYP (NO BUTTERFLY VALVES)
(SEE NOTE 1)

4" CONCRETE SLAB USE 520-C-2500

FLOW →

INSTALLED BY CITY FORCES

METER STRAINER PIPE EXTENSION TESTING TEE

SCREW JACK

CONCRETE THRUST BLOCK PER SDW-151

NOT TO SCALE

6' CHAIN LINK FENCE (ALTERNATE MATERIALS MUST BE APPROVED BY PUBLIC UTILITIES DEPT. PRIOR TO CONSTRUCTION). SEE NOTE 11.

VALVE BOX W/COVER SEE SDW-156

PRIVATE BACKFLOW

VALVE BOX W/ COVER (PRIVATE)

W19 PER SDW-151
24" SPOOL

ITEMS CALL OUT:

- ① 90° FLANGED DUCTILE IRON ELBOW (TYP).
- ② FLANGED DUCTILE IRON SPOOL, BOTH ENDS SHALL BE FLANGED (UNI-FLANGE SHALL NOT BE USED).
- ③ DIAMETER OF TEE SHALL BE EQUAL TO THE DIAMETER OF THE SUPPLY PIPE.

NOTES:

- 1. ALL BURIED DUCTILE IRON PIPE, FITTINGS, VALVES AND APPURTENANCES SHALL BE COATED WITH A DIELECTRIC COATING. A LIQUID EPOXY COATING SYSTEM PER AWWA C-210 AT 24 MILS MINIMUM DRY FILM THICKNESS (MDFT), OR A COLD APPLIED THREE-PART SYSTEM PETROLEUM WAX TAPE PER AWWA C-217, OR A 100% POLYURETHANE COATING OF 24 MILS (MDFT) SUITABLE.
- 2. ANY CHANGES SHALL HAVE PUBLIC UTILITIES DEPARTMENT APPROVAL.
- 3. PIPING SHALL BE SYMMETRICAL TO SLAB CENTERLINE.
- 4. SUPPLY PIPE IS ONE COMMERCIAL SIZE LARGER THAN PROPOSED METER.
- 5. CONCRETE SLAB AND FENCE SHALL BE INSTALLED BY CONTRACTOR.
- 6. CONTACT CORROSION CONTROL SECTION FOR CORROSION REQUIREMENTS.

SHEET 1 OF 2

REVISION	BY	APPROVED	DATE	CITY OF SAN DIEGO – STANDARD DRAWING	RECOMMENDED BY THE CITY OF SAN DIEGO STANDARDS COMMITTEE
ORIGINAL	KA	J. NAGELVOORT	12/12		
REDRAFTED	CD	J. NAGELVOORT	09/18		
UPDATED	RC	R. AMEN	05/26		
				DUAL ABOVE GROUND METER WITH PRIVATE BACKFLOW	<i>Alaine James 05/29/2026</i>
					COORDINATOR R.C.E. 81047 DATE
					DRAWING NUMBER SDW-157

NOTES (CONTINUED):

7. ALL METAL IN CONTACT WITH CONCRETE SHALL BE POLYETHYLENE WRAPPED USING 2" WIDE PLASTIC BACKED ADHESIVE TAPE 8 MILS THICK WITH 1/2" OVERLAP.
8. BACKFLOW SHALL BE INSTALLED IMMEDIATELY DOWNSTREAM FROM METER UNLESS APPROVED BY THE CITY CROSS-CONNECTION SPECIALIST.
9. BACKFLOW PREVENTERS SHALL BE REDUCED PRESSURE PRINCIPLE (RP) ASSEMBLY. (INSTALLED ABOVE GRADE AS CLOSE TO METER AS POSSIBLE) BACKFLOW LOCATION MUST BE APPROVED BY THE CROSS-CONNECTION CONTROL SECTION OF THE PUBLIC UTILITIES DEPT.
10. FOR WATER METERS AND BACKFLOW PREVENTERS IN AN ALCOVE OR WET UTILITY ROOM, **REFER TO SDW-141** FOR REQUIRED CLEARANCES. PROVIDE 3 FEET MINIMUM HORIZONTAL CLEARANCE AROUND THE ABOVEGROUND EQUIPMENT AND APPURTENANCES MEASURED FROM THE EDGE OF THE EQUIPMENT AND APPURTENANCES TO ANY OBSTRUCTION.
11. CHAIN LINK FENCE IS NOT REQUIRED IF WATER METER IN AN ALCOVE OR WET UTILITY.

LTR. CODE	PART DESCRIPTION	METER SIZE				
		3"	4"	6"	8"	10"
A	GATE VALVE	8"	9"	10 1/2"	11 1/2"	1'-1"
B	PIPE EXTENSION	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"
C	STRAINER *	7"	9"	9"	10"	1'-0"
D	TURBINE WATER METER *	1'-0"	1'-2"	1'-6"	1'-9"	2'-2"
E	COMPOUND METER *	1'-5"	2'-0"	2'-5"	3'-1"	4'-7"
F	TESTING TEE	11"	1'-1"	1'-4"	1'-6"	1'-10"
G	90 DEG. ELBOW (SHORT)	5 1/2"	6 1/2"	8"	9"	11"
H	OVERALL SLAB LENGTH *					
I	SLAB TO C/ L PIPE	3'-0"	3'-0"	3'-0"	3'-0"	3'-0"

* NOTES:

INDIVIDUAL DIMENSIONS MAY VARY PER MANUFACTURER OVERALL DIMENSIONS INCREASE WITH USE OF THESE COMPONENTS

DIMENSION CHART FOR METER ASSEMBLIES

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