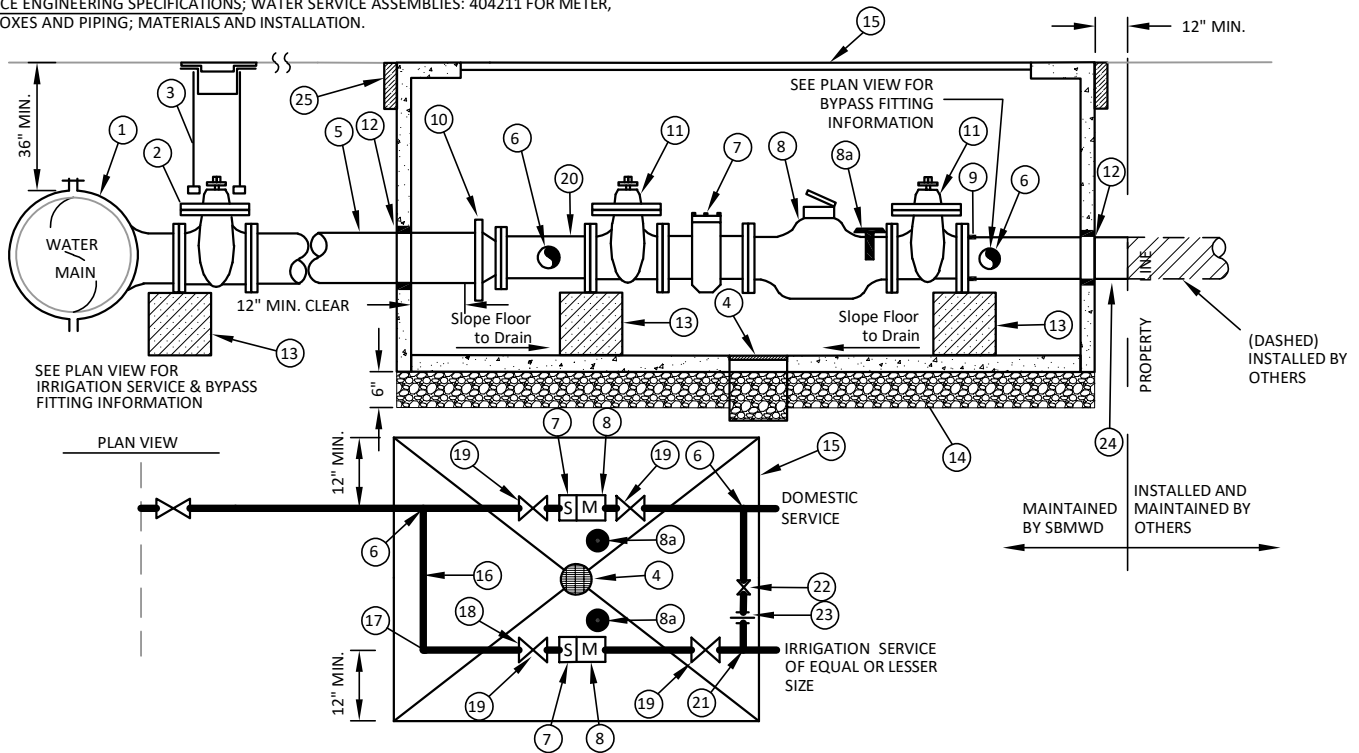


REFERENCE ENGINEERING SPECIFICATIONS; WATER SERVICE ASSEMBLIES: 404211 FOR METER, METER BOXES AND PIPING; MATERIALS AND INSTALLATION.



ITEM	QTY	DESCRIPTION
1	1 EA	EPOXY COATED TAPPING SLEEVE or MJxFLG TEE FOR ____" O.D. MAIN W/ 4" SERVICE LATERAL.
2	1 EA	4" FLG X MJ GATE VALVE PER SBMWD STD. DWG. W3.1
3	1 EA	8" GATE VALVE CAN ASSEMBLY PER SBMWD STD. DWG. W3.3
4	1 EA	SUMP AND SUMP GRATE DETAIL PER SBMWD STD. DWG W6.30
5	__ LF	4" DUCTILE IRON PIPE
6	2 EA	BLACK COUPLING OR THREDOLET FOR BY-PASS
7	1 EA	3" & ____" BRASS METER STRAINER - UNLESS METER HAS STRAINER.
8	1 EA	3" & ____" METER WITH TEST PORT, BALL VALVE, AND PLUG. (SEE SBMWD STD. DWG. W1.15 FOR APPROVED LIST).
8a	2 EA	SBMWD APPROVED METER AND TRANSMITTER ASSEMBLY, CURRENT ITRON USED BY DEPARTMENT OR APPROVED EQUAIL. INSTALL MOUNTING PER MANUFACTURER'S SPECIFICATION (NEW TRACTS OR AS DIRECTED BY SBMWD ONLY).
9	1 EA	3" CLASS 150 SLIP ON WELD FLANGE
10	1 EA	4" MJ X 3" FLG REDUCER
11	2 EA	3" FLG X FLG GATE VALVE
12	2 EA	LINK SEAL PER SBMWD STD. DWG W6.19
13	3 EA	8" CONCRETE BLOCK SUPPORT.
14	—	INSTALL 6" THICK BACKFILL (SE 30) OR BETTER, 95% COMPACTION
15	1 EA	4' x 6' CDR (WA10487248TA) OR PRE-CAST CONCRETE VAULT (LARGER VAULT MAY BE REQUIRED) W/ DOUBLE DOOR TORSION ASSISTED SKID RESISTANT LIDS (TRAFFIC RATED IN TRAFFIC AREAS) PER SBMWD STD. DWG W6.21
16	__ LF	3" STANDARD STEEL OR 2", 1-1/2" BRASS PIPE
17	1 EA	3" STANDARD STEEL 90 OR 2", 1-1/2" BRASS QUARTER BEND (FEMx FEM)
18	1 EA	3" STANDARD STEEL OR 2", 1-1/2" BRASS COMPANION FLANGE
19	2 EA	3" GATE VALVE FLG X FLG OR 2", 1-1/2" LOCKWING BALL VALVE
20	1 EA	3" STANDARD STEEL FLANGED SPOOL
21	1 EA	3" X 1-1/2" SERVICE SADDLE OR 2" X 1-1/2" TEE OR 1-1/2" BRASS TEE W/CLOSE NIPPLE AND COMPANION FLANGE
22	1 EA	1-1/2" BRASS LOCKWING BALL VALVE
23	1 EA	1-1/2" BRASS THREE PART UNION (FEM.)
24	__ LF	3" STANDARD STEEL
25	__ LF	INSTALL 1/2" EXPANSION JOIN ON ALL FOUR SIDES

REVISION DATE: 5/24/2016

D.D.M.	MAY 16	SAN BERNARDINO MUNICIPAL WATER DEPARTMENT 3" COMBINATION DOMESTIC AND 3", 2", OR 1-1/2" IRRIGATION SERVICE DETAIL	DRAWING NUMBER
F.D.L.	JULY 14		SBMWD
F.D.L.	JAN. 13		W1.12
D.D.M.	JAN. 11		
REVISION	DATE		
SCALE:	NONE	APPROVED  DATE 07/04/2019 WARREN HUANG, P.E. RCE 49208	