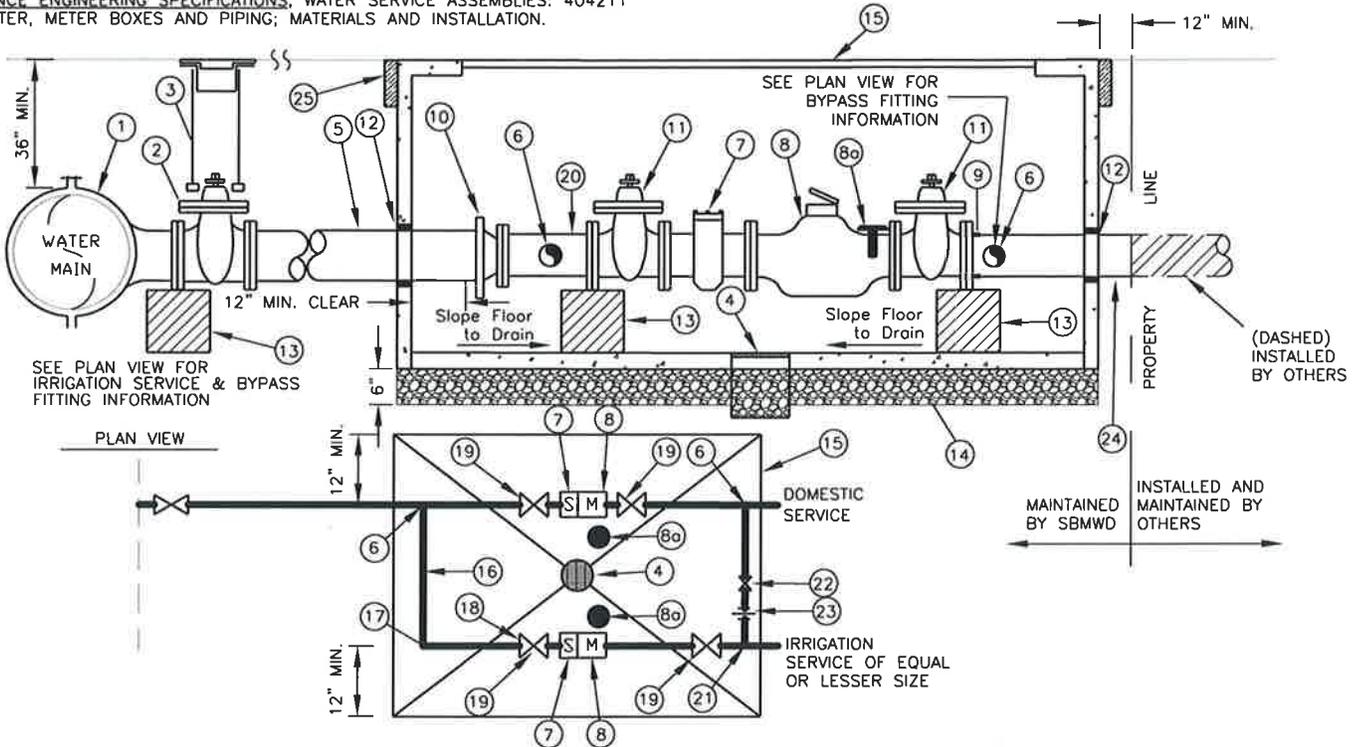


REFERENCE ENGINEERING SPECIFICATIONS; WATER SERVICE ASSEMBLIES: 404211
 FOR METER, METER BOXES AND PIPING; MATERIALS AND INSTALLATION.



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).
⑧o	2 EA	SBMWD APPROVED METER AND TRANSMITTER ASSEMBLY, CURRENT ITRON USED BY DEPARTMENT OR APPROVED EQUAL. 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 <u>6/27/12</u> MIGUEL J. GUERRERO, P.E. RCE C73239	