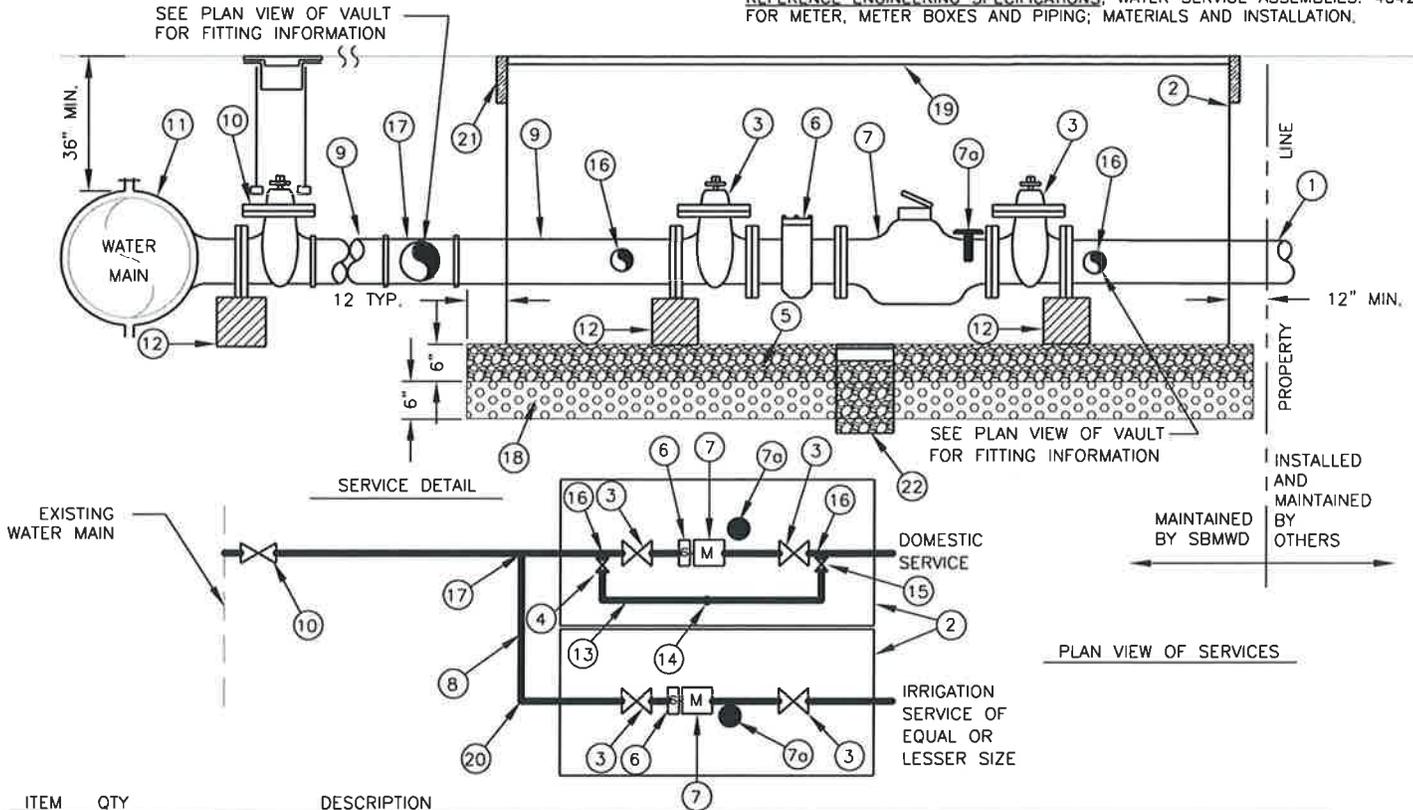


REFERENCE ENGINEERING SPECIFICATIONS: WATER SERVICE ASSEMBLIES: 404211 FOR METER, METER BOXES AND PIPING; MATERIALS AND INSTALLATION.



ITEM	QTY	DESCRIPTION
①	4 LF	___" STUB-OUT FOR SERVICE CONNECTION - PLAIN END DIP
②	2 EA	4'x6' CDR (WA10487248TA) OR PRE-CAST CONCRETE VAULT (LARGER VAULT MAY BE REQUIRED)
③	4 EA	___" FLG X MJ RESTRAINED GATE VALVE
④	2 EA	___" LOCKWING BALL VALVE
⑤	----	INSTALL MIN. 6" THICK 3/4" CRUSHED ROCK GRAVEL (NO FINES)
⑥	2 EA	___" BADGER BRONZE DUAL FLANGE PLATE STRAINER OR EQUIVALENT (UNLESS METER HAS STRAINER).
⑦	2 EA	___" WATER METER WITH TEST PORT, BALL VALVE, AND PLUG. (SEE SBMWD STD. DWG. W1.15 FOR APPROVED LIST)
⑦a	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).
⑧	_ LF	___" DUCTILE IRON PIPE (RESTRAINED)
⑨	----	CLASS 150 DUCTILE IRON PIPE (RESTRAINED) (PE X PE)
⑩	1 EA	___" FLG X MJ GATE VALVE ASSEMBLY PER SBMWD STD. W3.1 (RESTRAINED)
⑪	1 EA	EPOXY COATED TAPPING SLEEVE, WELD NOZZLE, OR MJxFLG TEE FOR ___" O.D. MAIN WITH ___" SERVICE LATERAL
⑫	5 EA	8" CONCRETE BLOCK
⑬	1 EA	US MANUFACTURER BRASS PIPE BYPASS LOOP (ON DOMESTIC SERVICE ONLY, BYPASS SIZE TO BE HALF THAT OF DOMESTIC SERVICE)
⑭	1 EA	BRASS 'T' WITH HOSE BIB
⑮	1 EA	CORP STOP IP X COMP
⑯	2 EA	___" x ___" BRASS SERVICE SADDLE
⑰	1 EA	___" x ___" D.I. TEE (MJ) WITH ___" METER ASSEMBLY PER ABOVE SERVICE DETAIL (RESTRAINED)
⑱	----	INSTALL 6" THICK BACKFILL (SE 30) OR BETTER, 95% COMPACTION.
⑲	----	4' X 6' DOUBLE DOOR ACCESS HATCH PER SBMWD STD. DWG. W6.21
⑳	_ EA	___" DI (MJ) BEND (RESTRAINED)
㉑	_ LF	INSTALL 1/2" EXPANSION JOINT ON ALL FOUR SIDES
㉒	2 EA	SUMP AND SUMP GRATE DETAIL PER SBMWD STD. DWG. W6.30

REVISION DATE: 5/24/2016

D.D.M.	MAY 16	SAN BERNARDINO MUNICIPAL WATER DEPARTMENT 4" AND LARGER COMBINATION DOMESTIC AND IRRIGATION SERVICE DETAIL	DRAWING NUMBER
F.D.L.	JULY 14		SBMWD
F.D.L.	MAY 13		W1.13
F.D.L.	JAN. 13		
REVISION	DATE	APPROVED <i>[Signature]</i> DATE <i>6/27/16</i>	
SCALE:	NONE	MIGUEL J. GUERRERO, P.E. RCE C73239	