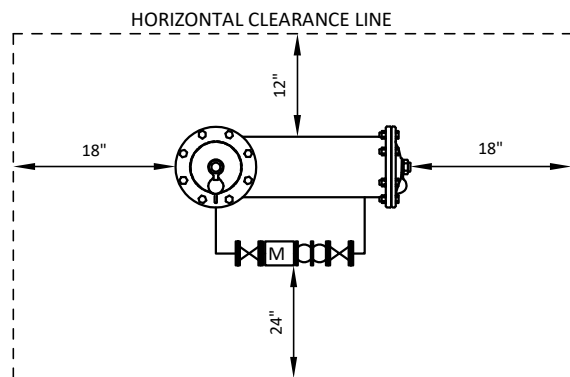
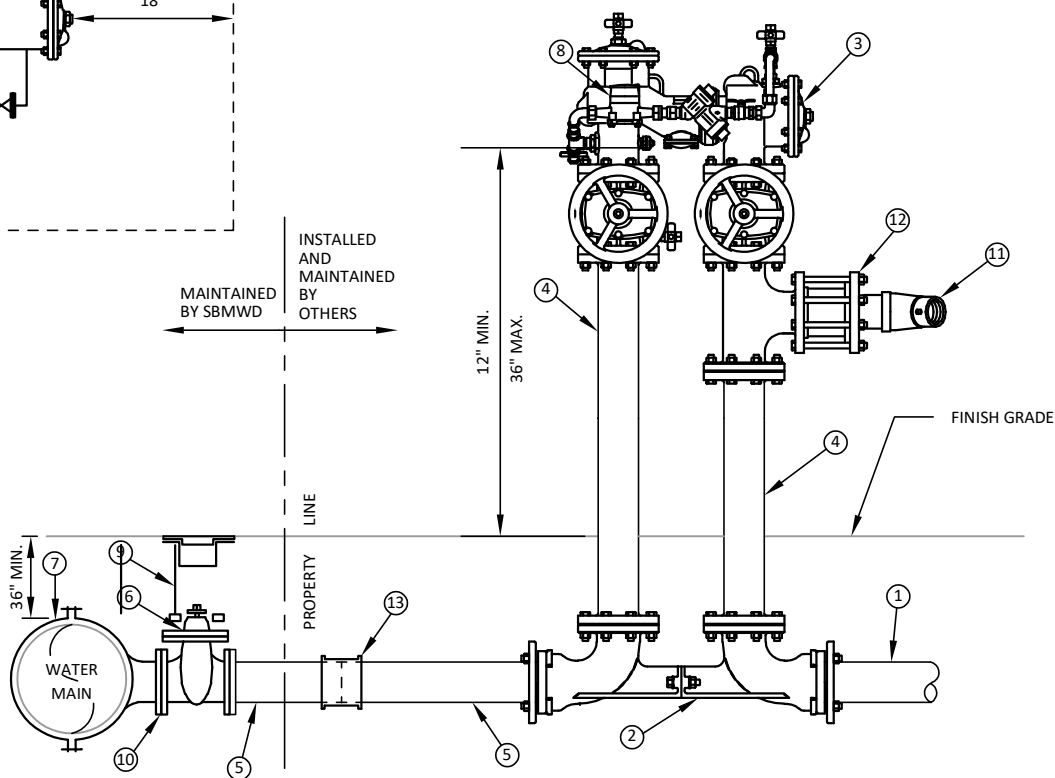




PLAN VIEW

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 (MATERIAL SPECIFIED BY CUSTOMER)
②	1 EA	___" VALVE SETTER
③	1 EA	___" DOUBLE CHECK DETECTOR ASSEMBLY (FEBCO 876/876V OR APPROVED EQUAL)
④	2 EA	___" SCH. 40 STEEL OR DUCTILE IRON PIPE SPOOLS
⑤	___ LF	___" PRESSURE CLASS 350 DUCTILE IRON PIPE (RESTRAINED) SEE SBMWD SPECIFICATIONS FOR BACKFILL REQUIREMENTS
⑥	1 EA	___" FLANGE BY M.J. GATE VALVE ASSY PER SBMWD STD. DWG. W3.1
⑦	1 EA	EPOXY COATED TAPPING SLEEVE, MJ TAPPING SLEEVE, WELD NOZZLE, OR MJxFLG TEE ___" O.D. MAIN WITH ___" SERVICE LATERAL
⑧	1 EA	BYPASS METER THAT IS APPROVED BY THE DOUBLE CHECK DETECTOR ASSEMBLY MANUFACTURER SHALL BE FACTORY INSTALLED AND THE ACCOMPANYING FACTORY METER CERTIFICATE SHALL BE PROVIDED TO THE DEPARTMENT.
⑨	1 EA	8" GATE VALVE CAN ASSEMBLY PER SBMWD STD. DWG. W3.3
⑩	1 EA	PIPELINE SEAL AND INSULATOR, INC INSULATING KIT TO BE USED BETWEEN THE TAPPING SADDLE AND VALVE WHEN DISSIMILAR METALS (DUCTILE IRON AND STEEL) ARE INVOLVED
⑪	1 EA	FIRE DEPARTMENT CONNECTION (FDC), SIZE, ORIENTATION, AND PROTECTIVE ENCLOSURE OR PROTECTIVE DEVICES SHALL BE COORDINATED, INSPECTED, AND APPROVED BY THE FIRE DEPARTMENT UPON INSTALLATION (909-384-5388).
⑫	1 EA	WAFER CHECK VALVE, AS DETERMINED BY THE FIRE DEPARTMENT
⑬	1 EA	SERIES 3800 RESTRAINED COUPLING (MEGA-COUPLING), OR APPROVED EQUAL, TO BE USED IF LATERAL INSTALLED BY SBMWD HAS TO BE LENGTHENED

NOTES:

1. ANY BACKFLOW RELATED INSTALLATION AND/OR REPLACEMENT, INCLUDING PARTS, SHALL ADHERE TO THE MOST CURRENT UNIVERSITY OF SOUTHERN CALIFORNIA (USC) FOUNDATION FOR CROSS-CONNECTION CONTROL AND HYDRAULIC RESEARCH STANDARDS.
2. SWAB INTERIOR OF PIPE, VALVES, AND FITTINGS, AND SWAB INTERIOR OF EXISTING MAINS TO WHICH NEW PIPING WILL BE CONNECTED (BOTH UPSTREAM AND DOWNSTREAM OF THE NEW BACKFLOW ASSEMBLY) WITH A 5% SODIUM HYPOCHLORITE SOLUTION. AFTER DISINFECTION, FLUSH WITH POTABLE WATER AGAIN UNTIL WATER IS FREE OF CHLORINE ODOR.
3. IF GIVEN A WAIVER TO INSTALL A BACKFLOW ASSEMBLY A CERTAIN DISTANCE FROM THE METER, THEN THE PIPING SHALL BE EXPOSED FROM THE SERVICE METER TO THE BACKFLOW ASSEMBLY WITH NO TEES OR CONNECTIONS, AND ENCASED IN A TWO SACK SLURRY MIX. THE WORK SHALL BE WITNESSED AND APPROVED BY WATER QUALITY CROSS-CONNECTION CONTROL.

REVISION DATE: 5/24/2016

D.D.M.	MAY 16	SAN BERNARDINO MUNICIPAL WATER DEPARTMENT	DRAWING NUMBER
F.D.L.	APR. 13		
F.D.L.	DEC. 12		SBMWD
F.D.L.	AUG. 12		
REVISION	DATE	4" AND LARGER ABOVEGROUND FIRE SERVICE W/ DOUBLE CHECK DETECTOR CHECK ASSEMBLY	W1.14
SCALE: NONE			
APPROVED			DATE 07/04/2019
		WARREN HUANG, P.E. RCE 49208	