

STANDARD DRAWING MATERIALS

ITEM	QTY	SIZE / DESCRIPTION	MATERIAL SPECIFICATIONS	REMARKS
1	1	DUCTILE IRON REDUCER 4" X 1/2" FLANGE X FLANGE (AS REQUIRED)	TYLER UNION CLASS 250 OR APPROVED EQUAL	SEE SECTION 4.3
2	1	DUCTILE IRON SPOOL FLANGE X FLANGE LENGTH 3 TIMES DIAMETER OF PIPE, EX. 4" METER=20" SPOOL, LENGTH AS REQUIRED	CLASS 53 PER AWWA/ANSI 151/A21.51	SEE SECTION 4
3	1	DUCTILE IRON TEE FL X FL X FL W/3" BRANCH, SIZE AS REQUIRED	TYLER UNION CLASS 250 OR APPROVED EQUAL	SEE SECTION 4
4	1	RESILIENT WEDGE GATE VALVE FLANGE X FLANGE	MUELLER RS, RW GATE VALVES SERIES 2361	SEE SECTION 4 AND STD DRAWING W-8
5	2	METER STRAINER	SUPPLIED WITH METER	SEE SECTION 4
6	1	3", 4", OR 6" METER	METER TYPE AND CONFIGURATION TO BE DETERMINED BY WATER SUPERINTENDENT	METER TO BE PURCHASED FROM AND FURNISHED BY THE CITY. SEE SECTION 4.9
7	1	DUCTILE IRON SPOOL FLANGE X FLANGE LENGTH AS REQUIRED	CLASS 53 PER AWWA/ANSI 151/A21-51	SEE SECTION 4
8	1	CONCRETE METER BOX WITH STEEL 2 PIECE COVER WITH READING LIDS	BROOKS MODEL 700 SERIES OR APPROVED EQUAL, EQUAL SIZE DETERMINED BY METER CONFIGURATION	SEE SECTION 4.9 AND STD DRAWING W-30
9	1	SPRING ASSISTED DOUBLE VAULT DOORS	U.S.F. FABRICATION APD 300 OR APPROVED EQUAL	SEE SECTION 4.9 AND STD DRAWING W-30
10	2	3" TAPPED FLANGE X 2" MIP	TYLER UNION CLASS 250 OR APPROVED EQUAL	SEE SECTION 4
11	3	2" BALL METER VALVE WITH LOCK, WING MIP X FIP	FORD B11-777W	
12	2	2" BRASS STREET, ELL 90°, MIP X FIP		
13	1	2" BRASS PIPE		LENGTH AS REQUIRED THREADED AS REQUIRED
14	1	2" BRASS TEE FIP		
15	1	2" DUCTILE IRON PIPE COUPLING	SMITH BLAIR MODEL 441 OR APPROVED EQUAL	SEE SECTION 4
16	2	PIPE SUPPORTS	PIPELINE PRODUCTS STAINLESS STEEL SUPPORT OR APPROVED EQUAL	SEE STANDARD DRAWING W-32
17	2	CONC. THRUST BLOCK	2000 PSI PER ASTM C-39 OR READY MIX PER ASTM C-94	SEE SECTION 4.4 AND STANDARD DRAWING W-17

NOTES:

- A** ENTIRE METER AND BYPASS ASSEMBLY SHALL BE INSIDE OF METER VAULT
- B** ALL SERVICES SHALL CONFORM WITH SECTION 4.9
- C** ALL BURIED FERROUS SURFACES, PIPES, AND FITTINGS SHALL BE PROTECTED AND POLYETHYLENE ENCASED PER SECTIONS 4.2.3 AND 4.3.3
- D** ALL PIPES AND FITTINGS SHALL BE IDENTIFIED WITH BURIED PIPE WRAP TAPE PER SECTION 4.3.3H
- E** 6" METER INSTALLATIONS MAY REQUIRE A LARGER DIAMETER BYPASS. REFER TO HYDRAULIC ENGINEERING SPECIFICATIONS FOR FLOW REQUIREMENTS. 3" AND LARGER BRASS ASSEMBLIES SHALL BE FLANGED DUCTILE IRON DESIGN WITH RW STYLE GATE VALVES. FINAL DESIGN SHALL BE APPROVED BY THE GENERAL MANAGER
- F** ALL INSTALLATIONS TO CONFORM WITH SECTION 3 AND SECTION 4 AS APPROPRIATE

PICO WATER DISTRICT

WATER METER INSTALLATION WITH BYPASS

APP. *M. M. M. M.*
APPROVED BY GENERAL MANAGER

STANDARD
DRAWING NUMBER
W-21B
DATE: 08/12/2008 SHEET 2 OF 2