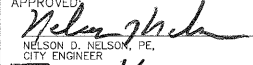




- | ITEM | MATERIALS |
|------|--|
| 1 | MAIN LINE SIZE X 6-INCH OR 4-INCH MJ X FLG DI TEE ON NEW WATER MAINS. CUT FLG TEE INTO EXISTING WATER MAIN PER CITY STD. DWG. 421. |
| 2 | RW GATE VALVE FLG X MJ PER CITY STD. DWG 420 |
| 3 | DIP, CLASS 350, RESTRAINED JOINT. |
| 4 | 6-INCH OR 4-INCH DIP SPOOL FLGxPE (LENGTH AS REQUIRED). |
| 5 | 6-INCH OR 4-INCH DIP SPOOL, FLG. |
| 6 | 90-DEGREE DI BEND, MJ. |
| 7 | PIPE SUPPORT PER CITY STD. DWG. 418. |
| 8 | OS & Y R/W GATE VALVE FLG W/ HAND WHEEL, SIZE AS REQUIRED. |
| 9 | VALVE BOX, PER CITY STD. DWG. 422. |
| 10 | COMPOUND FLOW METER, NEPTUNE TRU/FLO. |
| 11 | DIP SPOOL, FLG X VIC. |
| 12 | VICTAULIC COUPLING STYLE 31 |
| 13 | PITOT TUBE INSERTION POINT - TYPE 316SS, 1-INCH DOUBLE-STRAP SADDLE, CLOSE NIPPLE, FULL-PORT BALL VALVE, THREADED PLUG. |
| 14 | MJ RESTRAINT GLAND, EBAA, IRON MEGALUG (TYP). |
| 15 | DI TEE, FLG (SEE NOTE 8). |
| 16 | DI END CAP. MJ WITH RESTRAINED RETAINER GLAND (WHERE ON-SITE PIPING IS NOT CONNECTED). |
| 17 | AIR/VAC VALVE. SEE STD. DWG. 413. |
| 18 | DI 90-DEGREE BEND FLG. |
| 19 | THRUST BLOCK SIZED PER CITY STD. DWG. 401 (TYP.). |
| 20 | THRUST BLOCK PER CITY STD. DWG. 401 (WHERE ON-SITE PIPING IS NOT CONNECTED). REMOVE FOR PERMANENT CONNECTION. |
| 21 | TYPE 316SS CAGE WITH EXPANDED METAL PAINTED SAME AS ABOVE-GROUND PIPING. |

DIMENSIONS SIZE (INCHES)	METER AND MAINLINE PIPING		
	3"	4"	6"
A. OVERALL LENGTH	70	82	95
B. C-C PIPES	22	24	29
C. BYPASS VALVE SIZE	3	3	4
D. BYPASS PIPING SIZE	3	3	4

* ALL DIMENSIONS ARE IN INCHES



COMPOUND FLOW METER WITH BYPASS

REVISION			APPROVED:		DATE	CITY OF CORONA
NO.	APPROVED	DATE				
			 NELSON D. NELSON, PE, CITY ENGINEER		11-26-12	
			 TOM KOPER, PE, DISTRICT ENGINEER, DEPARTMENT OF WATER AND POWER		11-20-12	

NOTES:

1. EASEMENT NOTE: METER INSTALLATION IMPROVEMENTS BEYOND THE CITY/COUNTY RIGHT-OF-WAY REQUIRE AN EASEMENT AS DIRECTED BY THE DWP GENERAL MANAGER OR DESIGNEE.
2. RETAINING WALL (UP TO 6 FEET) : WHEN RETAINING WALL IS REQUIRED TO ACCOMMODATE GRADE VARIATIONS THE WALL SHALL BE CONSTRUCTED PER SSPWC STD. PLAN 618-3 AND PROVIDE PROPER CLEARANCE FROM THE IMPROVEMENTS. RETAINING WALLS TALLER THAN 6 FEET REQUIRE A CUSTOM DESIGN PREPARED BY CALIFORNIA REGISTERED CIVIL OR STRUCTURAL ENGINEER.
3. METER SHALL READ IN CUBIC FEET.
4. SEE APPROVED LIST OF MATERIALS FOR RESILIENT WEDGE GATE VALVE MANUFACTURER'S.
5. ELBOWS, TEES, AND REDUCERS SHALL BE A MINIMUM OF FIVE (5) PIPE DIAMETERS UPSTREAM OF FLOW METERS AND THREE (3) PIPE DIAMETERS DOWNSTREAM OF METER.
6. CHECK VALVES OR PRESSURE REDUCING DEVICES SHALL NOT BE INSTALLED LESS THAN TEN (10) PIPE DIAMETERS UPSTREAM OF METER AND FIVE (5) PIPE DIAMETERS DOWNSTREAM OF METER.
7. METER SHALL BE FURNISHED BY THE DEVELOPER'S CONTRACTOR AT NO COST TO CITY.
8. INSTALL REDUCING TEES WHERE REQUIRED TO REDUCE PIPE SIZE FROM 6-INCH TO 4-INCH, OR 4-INCH TO 3-INCH, SEE MATERIALS LIST ITEM 15.
9. PROVIDE 6-INCH THICK 560-C-3250 REINFORCED CONCRETE HOUSEKEEPING PAD ("A" + 4 FEET) BY ("B" + 6 FEET) WITH #4 BARS @ 12 INCHES O.C. EACH WAY.
10. THE PIPING BETWEEN THE MAIN AND THE ASSEMBLY (BOTH UPSTREAM AND DOWNSTREAM) SHALL BE RESTRAINED (ALL JOINTS AND FITTINGS).
11. EPOXY LINE AND COAT ABOVE GROUND DI PIPE AND FITTINGS, VALVES, AND COUPLINGS.
12. PROVIDE CONDUIT AND WIRE FROM FLOW METER TO RADIO/SCADA PANEL.

COMPOUND FLOW METER WITH BYPASS

REVISION			APPROVED		CITY OF CORONA
NO.	APPROVED	DATE		DATE	
			<i>Nelson D. Nelson</i>		
			NELSON D. NELSON, PE, CITY ENGINEER	11-27-12	
			<i>Tom Koper</i>		
			TOM KOPER, PE, DISTRICT ENGINEER, DEPARTMENT OF WATER AND POWER	11-20-12	

STD 426
SHEET 2 OF 2