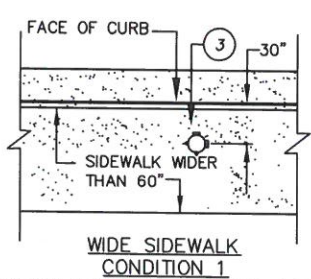


FIRE HOSE OUTLET ORIENTATION

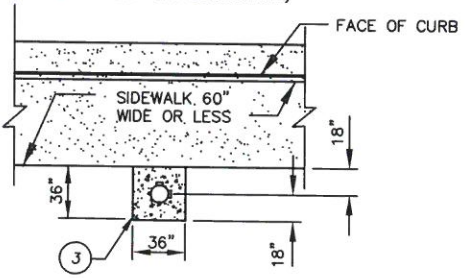
ITEM MATERIALS

- 1 RESIDENTIAL HYDRANT, 8-HOLE PATTERN, WITH (1) 4-INCH AND (1) 2-1/2-INCH FIRE HOSE OUTLETS, CLOW 850 OR 2050, OR JAMES JONES 3710 OR 4040B. PAINT FIRE HYDRANT AND CAPS PURPLE PANTONE 512C.
- 2 NON-RESIDENTIAL HYDRANT, 8-HOLE PATTERN, WITH (2) 4-INCH AND (1) 2-1/2-INCH FIRE HOSE OUTLETS, CLOW 860, 850, OR 2065, OR JAMES JONES 3765, 3775, OR 4060B. PAINT FIRE HYDRANT AND CAPS PURPLE PANTONE 512C.
- 3 REPLACE SIDEWALK PER CITY STD. 103-00 OR CONSTRUCT 48-INCHx36-INCHx6-INCH THICK CONCRETE PAD WITHIN PARKWAY. SEE HYDRANT LOCATION PLANS BELOW FOR APPLICABLE CONDITION.
- 4 6-INCH DIA. FLG X PE DI SPOOL, CLASS 350.
- 5 6-INCH DIA. MJ DI 90° BEND, RESTRAINED.
- 6 6-INCH DIA. DI PIPE, CLASS 350, RESTRAINED JOINT.
- 7 6-INCH RESILIENT WEDGE GATE VALVE FLG X MJ RESTRAINED PER CITY STD. DWG. 420.
- 8 DI TEE WITH 6-INCH FLANGED OUTLET.
- 9 CONCRETE SUPPORT BLOCK PER CITY STD. DWG. 401.
- 10 VALVE BOX PER CITY STD. DWG. 422.
- 11 FIRE HYDRANT CAPS, PLASTIC W/O CHAINS.
- 12 BREAK-OFF BOLTS. 5/8-INCH X 3-INCH W/ BOLTS UP. 8-HOLE PATTERN, PRE-FILLED BOLTS WITH SILICONE INSTALLED UP.
- 13 MJ PIPE RESTRAINT, EBBA IRON MEGALUG SERIES 1100.
- 14 MAINLINE SIZE X 6-INCH MJ X MJ X FLG TEE WITH RESTRAINED JOINTS AND CONCRETE THRUST BLOCK PER CITY STD. DWG. 401 UPON DWP GENERAL MANAGER OR DESIGNEE APPROVAL.

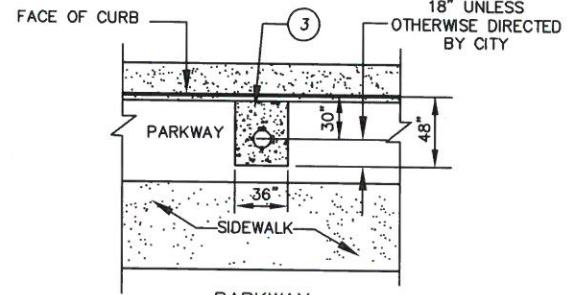


WIDE SIDEWALK  
CONDITION 1

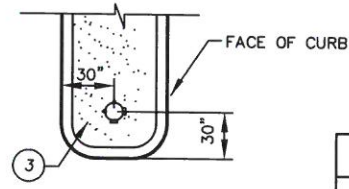
(ONLY BY APPROVAL OF DWP GENERAL MANAGER OR DESIGNEE)



NARROW SIDEWALK  
CONDITION 2



PARKWAY  
CONDITION 3




MEDIAN  
CONDITION 4

HYDRANT LOCATION PLANS

NOTES:

- 1. DO NOT CONSTRUCT FIRE HYDRANT CLOSER THAN 10- FEET TO DRIVEWAY RETURN WITHOUT PRIOR APPROVAL BY DWP GENERAL MANAGER OR DESIGNEE.


RECLAIMED WATER FIRE HYDRANT INSTALLATION

REVISION			APPROVED		CITY OF CORONA
NO.	APPROVED	DATE	DATE	DATE	
1	<i>[Signature]</i>	2/13/14	<i>Nelson D. Nelson</i>	5-6-14	 STD 412R SHEET 1 OF 2
			<i>Tom Koper</i>	4-30-14	

NOTES:

1. FLANGE NUTS, BOLTS, AND WASHERS SHALL BE TYPE 316SS. LUBRICATE BOLTS WITH ANTI-SEIZE LUBRICANT.
2. CONSTRUCT CONCRETE THRUST BLOCK ON MAINLINE TEE PER CITY STD. DWG. 401 WHERE WATER MAIN IS NOT OTHERWISE FULLY RESTRAINED.
3. DIMENSIONS MAY VARY FOR SPECIAL CIRCUMSTANCES; CUL-DE-SACS, PRIVATE STREETS, SIDEWALKS ADJACENT TO CURBS, ETC. WHERE SPECIFICALLY REQUIRED ON THE APPROVED PLANS.
4. CHISEL A 1-1/2-INCH TALL "V" IN THE CURB FACE TO INDICATE LOCATION OF VALVE.
5. CHISEL (2) "X"'S AND THEIR RESPECTIVE DISTANCES IN THE CURB TO BE USED AS "TIE" LOCATIONS FOR VALVE CAN.
6. VALVE SHALL BE ACCESSIBLE AT ALL TIMES.
7. DEVELOPER/INSTALLER SHALL SUPPLY AND PLACE BLUE-DOT REFLECTING RAISED ROADWAY MARKERS PER CITY STD. DWG. 531.
8. BORE UNDER CURB & GUTTER FOR CONSTRUCTION OF HYDRANT LATERAL.
9. PROVIDE 3-FOOT MINIMUM HORIZONTAL CLEARANCE BETWEEN FIRE HYDRANT AND ALL OTHER ADJACENT ABOVE GROUND IMPROVEMENTS.
10. PROVIDE 1-1/2-INCH OPERATING NUTS ON ALL FIRE HYDRANT OPERATORS.
11. WRAP PIPE AND VALVE WITH A DOUBLE LAYER OF 8-MIL PURPLE POLYETHYLENE.

REVISION			APPROVED	
NO.	APPROVED	DATE		
1	<i>VRLW</i>	2/13/14	<i>Nelson D Nelson</i> NELSON D. NELSON, PE. CITY ENGINEER	5-6-14 DATE
			<i>Tom Koper</i> TOM KOPER, PE., DISTRICT ENGINEER, DEPARTMENT OF WATER AND POWER	4-30-14 DATE



**CORONA**  
THE CALLED CITY

**CITY OF CORONA**

**STD 412R**

SHEET 2 OF 2