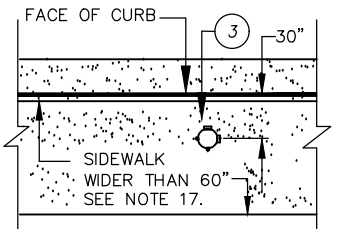
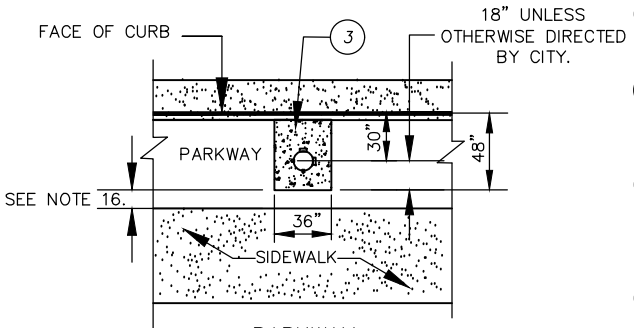


- ITEM MATERIALS**
- ① STANDARD HYDRANT, 8-HOLE PATTERN, WITH (1) 4-INCH AND (1) 2½-INCH FIRE HOSE OUTLETS, CLOW 850 OR 2050, OR JAMES JONES 3710 OR 4040B. PAINT FIRE HYDRANT AND CAPS SAFETY YELLOW.
 - ② SUPER HYDRANT, 8-HOLE PATTERN, WITH (2) 4-INCH AND (1) 2½-INCH FIRE HOSE OUTLETS, CLOW 865, OR JAMES JONES 3775, OR 4065. PAINT FIRE HYDRANT AND CAPS RUST-O-LEUM OLD CAT YELLOW - 76486.
 - ③ REPLACE SIDEWALK PER CITY STD. 142 OR CONSTRUCT 48" x 36" x 6" THICK CONCRETE PAD WITHIN PARKWAY. SEE HYDRANT LOCATION PLANS BELOW FOR APPLICABLE CONDITION.
 - ④ 6-INCH DIA. FLG x FLG DI SPOOL, AWWA C115.
 - ⑤ 6-INCH DIA. FLG x MJ DI 90-DEGREE 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 MAINLINE SIZE x 6-INCH MJ x MJ x FLG DI TEE WITH RESTRAINED JOINTS. INSTALL CONCRETE THRUST BLOCK PER CITY STD. DWG. 401 ON NON-RESTRAINED JOINT WATERLINES.
 - ⑨ CONCRETE THRUST 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" x 3" W/ BOLTS UP. 8-HOLE PATTERN, PRE-FILLED BOLTS WITH SILICONE INSTALLED UP.
 - ⑬ MJ PIPE RESTRAINT, EBBA IRON MEGALUG SERIES 1100.
 - ⑭ 6-INCH DIA. DI SPOOL WITH 1/4-INCH V (SINGLE OR DOUBLE) BREAK OFF GROOVE.

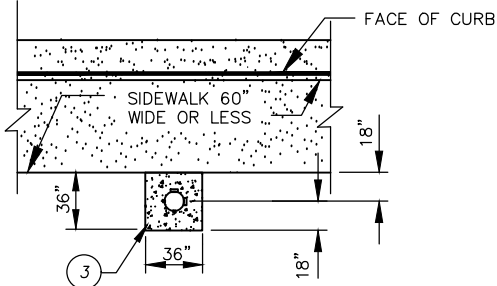


**WIDE SIDEWALK
CONDITION 1**

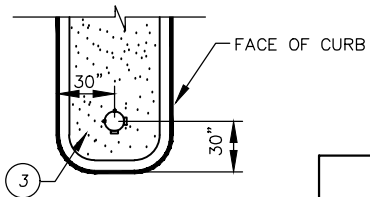
(ONLY BY WRITTEN APPROVAL OF DWP
GENERAL MANAGER OR DESIGNEE)



**PARKWAY
CONDITION 3**



**NARROW SIDEWALK
CONDITION 2**



**MEDIAN
CONDITION 4**

HYDRANT LOCATION PLANS

SEE NOTES ON SHEET 2.

NOT TO SCALE


REVISION			APPROVED:	
NO.	APPROVED	DATE	DATE	
2		05/30/18	10/01/20	CITY OF CORONA
3		12/28/18	10/01/20	
4	VRW	10/01/20		STD 412



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 1½-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. 6-INCH LATERAL PIPELINE (FULLY RESTRAINED) SHALL MATCH THE CLASS OF THE ADJACENT MAIN LINE PIPE.
7. VALVE SHALL BE ACCESSIBLE AT ALL TIMES.
8. DEVELOPER/INSTALLER SHALL SUPPLY AND PLACE BLUE-DOT REFLECTING RAISED ROADWAY MARKERS PER CITY STD. DWG. 531.
9. BORE UNDER CURB & GUTTER FOR CONSTRUCTION OF HYDRANT LATERAL.
10. PROVIDE 3-FOOT MINIMUM HORIZONTAL CLEARANCE BETWEEN FIRE HYDRANT AND ALL OTHER ADJACENT ABOVE GROUND IMPROVEMENTS.
11. PROVIDE 1½-INCH OPERATING NUTS ON ALL FIRE HYDRANT OPERATORS.
12. WRAP PIPE AND VALVE WITH A DOUBLE LAYER OF 8-MIL BLUE POLYETHYLENE.
13. ALL FITTINGS, PIPE, VALVES, AND FITTINGS SHALL BE LEAD FREE IN COMPLIANCE WITH FEDERAL AND STATE LAWS.
14. DO NOT CONSTRUCT FIRE HYDRANT CLOSER THAN 10-FEET TO DRIVEWAY RETURN WITHOUT PRIOR APPROVAL BY DWP GENERAL MANAGER OR DESIGNEE.
15. CONDITIONS 2 AND 3 ARE STANDARD CITY CONFIGURATION.
16. EXTEND PAD TO SIDEWALK IF END OF PAD IS 24-INCH OR CLOSER TO SIDEWALK.
17. FOR ALTERNATIVE TO WIDE SIDEWALK CONDITION 1 HYDRANT LOCATION, SEE CITY STD. 144.
18. CONSTRUCT FIRE HYDRANT WITHIN THE CITY RIGHT-OF-WAY OR EASEMENT UNLESS EXCEPTION IS PROVIDED IN WRITING BY DWP GENERAL MANAGER OR DESIGNEE.
19. WHEN A FIRE FLOW OF 3500 GPM OR GREATER IS REQUIRED BY THE FIRE DEPARTMENT, A SUPER HYDRANT SHALL BE REQUIRED.
20. HYDRANT SPACING WILL BE AS MEASURED BY AN APPROVED EMERGENCY ACCESS ROUTE. ONE- & TWO-FAMILY DWELLINGS ALLOW 300-FOOT HYDRANT SPACING. WHEN APPROVED BY THE FIRE CHEIF, HYDRANT SPACING MAY BE INCREASED TO 500-FEET WHEN HOMES DO NOT FRONT ON THE EMERGENCY ACCESS ROADWAY. ALL OTHER BUILDINGS ALLOW 250-FOOT HYDRANT SPACING.

6" POTABLE WATER FIRE HYDRANT INSTALLATION			
REVISION		APPROVED:	5/31/2018
NO.	APPROVED	DATE	
1		02/13/14	<i>Nelson D. Nelson</i>
2	VRW	05/30/18	NELSON D. NELSON, PE, PUBLIC WORKS DIRECTOR
			<i>Vernon R. Weisman</i>
			VERNON R. WEISMAN, PE, DISTRICT ENGINEER
			DATE



CITY OF CORONA
STD 412
SHEET 2 OF 2