



CONSTRUCTION NOTES

- ① APPROVED REDUCED PRESSURE PRINCIPLE BACKFLOW ASSEMBLY WITH SPRING LOADED CHECK VALVES & INTEGRAL DIAPHRAM ACTUATED RELIEF VALVE. REFER TO UNIVERSITY OF SOUTHER CALIFORNIA FOUNDATION FOR CROSS-CONNECTION AND HYDRAULIC RESEARCH APPROVED LIST (WWW.USC.EDU/DEPT/FCCCHR/LIST.HTML).
- ② 90° BEND, FE x FE. CEMENT LINE DI.
- ③ RESILIENT WEDGE GATE VALVE.
- ④ DIP MORTAR LINED SPOOL PIECE (FE).
- ⑤ 150 LB. ANSI RATED FLANGE. FABRICATED INTEGRALLY WITH SPOOL OR SPINDLE PIECE. THREADED FLANGES EXCEPTED.
- ⑥ 6" THICK CONCRETE SLAB. REINFORCED WITH W1.4 x W1.4 WELD WIRE MESH. CONCRETE SHALL BE C-560-3250 MIX.
- ⑦ 90° BEND, CEMENT LINED DI, FE x FE x MJ ENDS W/RETAINER GLANDS.
- ⑧ C-900 PVC CLASS 200.
- ⑨ CONSUMER PIPING. AWWA APPROVED POTABLE WATER PIPE MATERIAL, C-900 PVC CLASS 200.
- ⑩ ADJUSTABLE PIPE SUPPORT PER STD 521.
- ⑪ AIR GAP RELIEF VALVE DRAIN PORT TO ATMOSPHERE. OUTLET MUST BE AT LEAST 12" ABOVE THE VALVE ASSEMBLY SLAB.
- ⑫ DIAPHRAM ACTUATED, SPRING LOADED, DOUBLE SEATED RELIEF VALVE SET TO SENSE AND AT LEAST A 2 PSI PRESSURE DIFFERENTIAL BETWEEN THE CHECK VALVES.
- ⑬ BRONZE BODY, TEST VALVES. RUBBER SEATED BALL VALVE SHUTOFF WITH LEVER.
- ⑭ INSTALL THRUST BLOCK PER STD 516-A.
- ⑮ FE x MJ ADAPTER WITH RETAINER GLAND.

GENERAL NOTES

- 1. ALL ABOVE GRADE PIPING SHALL BE PAINTED WITH AN ALKYD ENAMEL PAINT SYSTEM CONSISTING OF A 2 MIL PRIMER CAT AND TWO (2) CAT OF 2 MILS (EACH) HIGH GLOSS ENAMEL. COLOR SHALL BE WHITE, BLUE, RED, OR GREEN, AS REQUIRED BY THE CITY.
- 2. ALL BELOW GRADE DUCTILE IRON FITTINGS SHALL BE C-110. ALL BELOW GRADE DUCTILE IRON PIPE AND FITTINGS SHALL BE ENCASED IN ACCORDANCE WITH AWWA STANDARDS IN AN 8 MIL POLYETHYLENE WRAP.
- 3. ALL FLANGE BOLTS SHALL BE MANUFACTURED FORM TYPE 316 STAINLESS STEEL. MECHANICAL JOINT CONNECTIONS SHALL BE MADE WITH EITHER MALLEABLE IRON OR SELF-WEATHERING CORTEN STEEL.
- 4. DOUBLE CHECK BACKFLOW ASSEMBLY SUBSTITUTION SHALL REQUIRE SPECIAL WRITTEN PERMISSION FROM THE UTILITIES DEPARTMENT.

FORMER CITY STANDARD PLAN NUMBER (2004 EDITION): STD 520-L

APP. <i>James M. Hinkle</i>	51568	11/24/2020			
CITY ENGINEER	RCE	DATE			
			NO.	DATE	DESCRIPTION OF REVISIONS

CITY OF NEWPORT BEACH DEPARTMENT OF PUBLIC WORKS

DRAWN: M. ELIAS	3" AND LARGER REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY	STANDARD DRAWING NO. 519-C
DATE: 11/3/2020		SHEET 1 OF 1