



CONSTRUCTION NOTES

- ① APPROVED DOUBLE CHECK DETECTOR ASSEMBLY. REFER TO UNIVERSITY OF SOUTHERN CALIFORNIA APPROVED LIST.
- ② LONG RADIUS 90° BEND, FE x FE, CEMENT LINED D.I.
- ③ RESILIENT WEDGE GATE VALVE, OS & Y W/FLANGED ENDS.
- ④ D.I.P. MORTAR LINED SPOOL PIECE (FE).
- ⑤ 150 LB. ANSI RATED FLANGE. FABRICATED INTEGRALLY WITH SPOOL.
- ⑥ 6" THICK CONCRETE SLAB. REINFORCED WITH W1.4 x W1.4 WELD WIRE MESH. CONCRETE SHALL BE C-560-3250 MIX.
- ⑦ LONG RADIUS 90° BEND, CEMENT LINED D.I., FE x FE OR 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 BYPASS DOUBLE, SPRING LOADED, POPPET CHECK VALVE ASSEMBLY WITH MULTIPLE TEST COCKS.
- ⑫ ASSEMBLY MUST BE MATCHED TO THE MAIN LINE ASSEMBLY TO PROVIDE LOWER HEAD LOSS.

- ⑬ BRONZE BODY, RUBBER SEATED BALL VALVE SHUT-OFF WITH LEVER OPERATOR.
- ⑭ MAGNETIC DRIVE, LOW HEAD LOSS, BYPASS METER CAPABLE OF READING FLOWS FROM 1/4 TO 20 GPM. REGISTER SHALL RECORD FLOWS IN UNITS OF CUBIC FEET. MUELLER/HERSEY AMI METER.
- ⑮ INSTALL THRUST BLOCK PER STD 516-A.

GENERAL NOTES

1. ALL ABOVE GRADE PIPING SHALL BE PAINTED WITH AN ALKYD ENAMEL PAINT SYSTEM CONSISTING OF A 2 MIL PRIMER COAT AND TWO (2) COATS OF 2 MILS (EACH) HIGH GLOSS ENAMEL. COLOR SHALL BE DETERMINED BY THE UTILITIES DEPARTMENT.
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 TYPE 316 STAINLESS STEEL. MECHANICAL JOINT BOLTS SHALL BE MANUFACTURED FROM EITHER MALLEABLE IRON OR SELF-WEATHERING CORTEN STEEL.
4. REDUCED PRESSURE BACKFLOW ASSEMBLY MAY BE REQUIRED AT THE DIRECTION OF THE UTILITIES DEPARTMENT.
5. 10-GAUGE TRACING WIRE MUST BE USED FOR ALL C-900 APPLICATIONS.

FORMER CITY STANDARD PLAN NUMBER (2004 EDITION): STD 517-L

APP. *James M. Hinkle* 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 DOUBLE CHECK DETECTOR BACKFLOW PREVENTION ASSEMBLY	STANDARD DRAWING NO. 518 SHEET 1 OF 1
DATE: 11/3/2020		