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.


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.


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 ¼ to 20 GPM. Register shall record flows in units of cubic feet. Mueller/Hersher 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 enclosed 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

CITY ENGINEER

M. ELIAS

CITY ENGINEER

11/3/2020

CITY OF NEWPORT BEACH DEPARTMENT OF PUBLIC WORKS

3" AND LARGER DOUBLE CHECK DETECTOR BACKFLOW PREVENTION ASSEMBLY

STANDARD DRAWING NO.

518

SHEET 1 OF 1