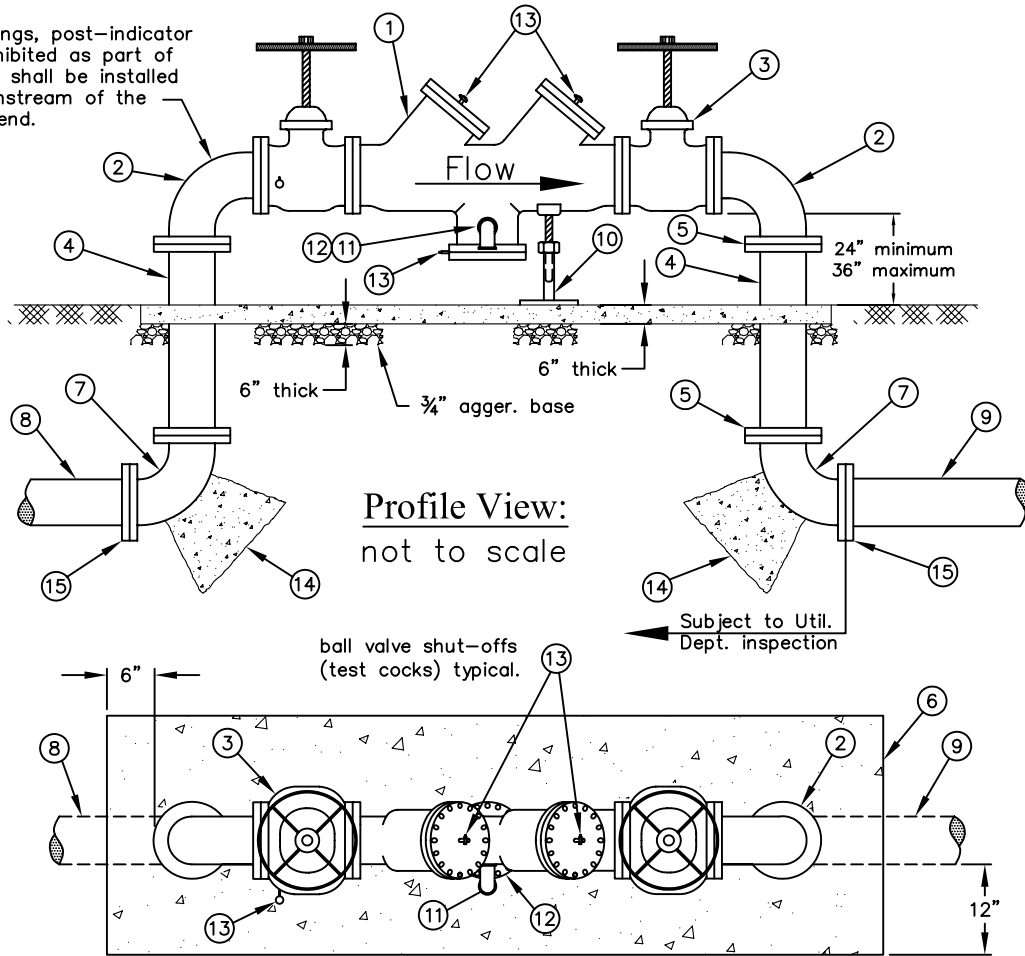


Siamese pumper fittings, post-indicator valves etc. are prohibited as part of this assembly. They shall be installed at some point downstream of the below grade 90° bend.



Profile View:
not to scale

Plan View: not to scale

CONSTRUCTION NOTES:

- ① Approved reduced pressure principle backflow assembly with spring loaded check valves & integral diaphragm actuated relief valve. Contact the CNB Utilities Dept. (644-3011) for approved list.
- 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 City supply pipe. Class 52 mortar lined Ductile iron pipe w/polyethylene encasement.
- ⑨ Consumer piping. AWWA approved potable water pipe material, class 150 or higher.
- ⑩ Adjustable steel pipe support, hot dip galvanized after fabrication per STD-522-L. Paint to match piping and valving.
- ⑪ Air gap relief valve drain port to atmosphere. Outlet must be at least 12" above the valve assembly slab.
- ⑫ Diaphragm actuated, spring loaded, double seated relief valve set to sense and at least a 2 PSI pressure differential between the creek valves.
- ⑬ Bronze body, test valves. Rubber seated ball valve shutoff with lever.
- ⑭ Install thrust block per STD-510-L-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 coat and two (2) coats of 2 mils (each) high gloss enamel. Color shall be white, blue, red, or green.
- 2. All below grade ductile iron fittings and piping shall be encased with an 8 mil polyethylene wrap in accord with AWWA standard.
- 3. All flange bolts shall be manufactured from type 316 stainless steel. Mechanical joint connections shall be made with either malleable iron or self-weathering CorTen Steel.
- 4. Backflow device shall be installed in easement granted to City. Minimum size is 5' wide x 10' long.

CITY OF NEWPORT BEACH
PUBLIC WORKS DEPARTMENT

**Reduced Pressure Principle
Backflow Prevention Assembly**

APPROVED:

RCE NO. 36106

PUBLIC WORKS DIRECTOR

Drawn: M. Elias

Scale: N.T.S.

Date: Jan. 2004

FAUSERS\PBW\Shared\CAD STD\STD Details\2003_Std\STD Water

DRAWING NO.

STD-520-L