FIRE HYDRANT AND THRUST BLOCKS

Fire hydrants shall be of the type and manufacture as specified by the cognizant Fire District. Fire hydrant installation must include a mechanism to break away, i.e. break away bolts.

All valves, including tapping valves, shall be securely supported from beneath to prohibit future settlement. Support shall consist of precast mortar blocks or concrete poured on site, but, in no case shall wood blocks be permitted as a permanent means of support. Mud and other unstable material shall be removed as necessary to permit the block to bear on undisturbed material capable of providing adequate support. Valve anchors shall be incorporated when indicated on the plans and constructed in accordance with Standard Drawing.

Fire hydrants are to be painted with one coat of Galvanized Sealing Primer and a surface coat of "Safety Yellow".

A CLOW LP 619 check valve is to be installed at the top of fire hydrant bury and above ground at every fire hydrant installation.

Adequately sized concrete thrust blocks shall be installed to withstand all thrust created by maximum internal water pressure in accordance with Riverside Highland Water Company's Standard Table No. 1 for the following conditions:

1. Change of direction, as at tees and bends.
2. Change of size, as at reducers and at plugged crosses and tees.
3. At flush outs and dead ends.
4. Thrust at valves.

CATHODIC PROTECTION

Materials to be used in providing this protection shall be as follows unless otherwise specified on the installation drawing:

1. Coal-tar primer for use under bituminous tape shall be PROTECTO-WRAP No. 1170 Primer as manufactured by Protecto-Wrap Company, Denver, Colorado, or an approved equal.
2. Bituminous tape shall be PROTECTO-WRAP No. 200A, or an approved equal.
3. Coal-tar mastic shall be PROTECTO-Wrap No. CA 1200 coating, or an approved equal.

Rocks greater than 1 inch in any dimension shall not be permitted in the backfill material. Where rocks are included in the backfill, they shall be mixed with suitable excavated material so as to eliminate voids.