SECTION C-3 - FIRE HYDRANTS

Hydrants shall conform to the standards of the American Water Works Association, AWWA Standard for Dry-Barrel Fire Hydrants for Ordinary Water Works Service, AWWA C502, latest revision, relating to fire hydrants and conforming with the City of Wilmington standards.

Hydrants shall be Guardian as manufactured by Kennedy Valve Company, Mueller Super Centurion, or equal. Hydrants shall be of a two piece design with a breaking ring located approximately 3-inches above the ground line. Hydrants shall be provided with a standpipe with an 8-inch ID, and 6-inch diameter mechanical joint connection and shall be for a typical trench depth of 4 feet. Extension collars should be provided as required for proper setting of hydrants.

Hydrants shall have compression type valve with 5¼-inch diameter opening, two (2) 2½ inch hose connections (with thread size 3.06-inch O.D. and 7 threads per inch), and one (1) 4½ inch steamer nozzle (with thread size 5.251 inch O.D and 5 threads per inch). Hydrants shall have O-Ring seals and the main valve shall open clockwise with a $^{19}/_{16}$ inch to ¾ inch pentagon nut.

Painting and all details shall be in accordance with the City of Wilmington standards

All parts of hydrants shall be interchangeable with similar parts of hydrants of the same size and type. All bolt holes shall be accurately drilled from templates. All joints shall be faced smooth, so as to make a perfectly watertight joint.

Hydrants shall be provided with “breakable ring” traffic flange and breakable coupling stem. The traffic flange shall have 360 degrees adjustment facilities.

Each hydrant shall be shop tested under 300 psi applied hydrostatic pressure above and below the compression valve. Any hydrant showing sweating of metal or leaking or other defect shall be rejected. All tests shall be made at the expense of the supplier.