

## **Dry Hydrant Specification Norwich Fire Department**

These are the minimum specifications for a dry hydrant in Norwich. Before beginning construction please have the design reviewed by the Norwich Fire Department.

- The dry hydrant and water source shall meet the requirement of NFPA 1142: *Standard on Water Supplies for Suburban and Rural Fire Fighting*.
- Provide a minimum of 60,000 gallons of water available through the dry hydrant under a 2% drought condition for well-separated single-family residential construction. Contact the fire department for other uses.
- Provide a minimum flow rate for well-separated single family residential of 500 gpm, 1000 gpm preferred. Contact the fire department for other uses. Once design is complete we will review and calculate flow rate using a dry hydrant design program.
- The minimum pipe size is 6" Schedule 40.
- Provide year round access meeting the minimum provisions of the Fire Department Private Driveway Guidelines or preferably the Private Highway Ordinance.
- Maximum vertical lift of 15', 10' preferred, from the water surface elevation under a 2% drought condition to the top of the fire department connection.
- Minimize amount of pipe that is filled with air by keeping vertical run below water level.
- Protect water filled pipe from freezing.
- The dry hydrant thread needs to be a 5" male NST with a screw on cap.
- Dry hydrant strainer to meet requirement of NFPA 1142: *Standard on Water Supplies for Suburban and Rural Fire Fighting* and have a back flushing valve.
- Exposed pipe painted with a red epoxy paint to prevent ultraviolet degradation.
- Provide a minimum of 24" of water over strainer under 2% drought condition and a minimum of 12" to 18" under the strainer depending on pond bottom conditions.
- The hydrant location shall allow a fire department pumper to connect to the hydrant using not more than 15' of suction hose.
- Set the dry hydrant so that the centerline of the dry hydrant fire department connection is 2' above the road at the parking location of the fire department pumper.