

City Of Lewisville Department of Public Services Castle Hills Master Meter Vault

General Requirements

Meter Vault General Requirements:

Large meters will be installed in reinforced concrete vaults with hinged aluminum covers. The vault will be sized to maintain the designated minimum clearance to vertical side walls, floor and ceiling. End walls will have a 24 inch minimum clearance from any flanged appurtenances. The vault will be of sufficient length to allow the meter to be installed well clear of fittings such as valves, T-pieces, elbows, etc. to be in compliance with manufactures recommendations for inlet and outlet run requirements for measuring accuracy. The vault will be water tight and will have sump holes for both a permanent sump pump and a portable pump. The meter, piping and valves will be adequately supported to allow for removal of meter, valves or any other appurtenance without the shifting of the piping. All piping connections in the vault will be flanged connections. Additionally a dismantling joint will be installed in the piping systems to allow assembly, disassembly and removal of the meter. The Link-seal modular seal systems will be used for pipe passing through concrete walls to provide protection for the pipe and to form a water seal. Adequate space should be provided in the vault and vault door for the installation and removal of the meter or other appurtenances in the meter vault. The top concrete reinforced pad shall extend beyond the vault and be of sufficient size to mount the enclosure required for the meter electronics and power supply. The enclosure and installation will meet applicable safety requirements related to water service environments as well as exposure to outside elements. Alarm sensors for high water, vault door, and equipment enclosure cabinet doors will be installed and will provide immediate alarm notification through the SCADA communications systems. The above listed minimum requirements and are not meant to limit standards for safety, security or best building practices. Top of vault shall be removable. Sump shall drain to storm sewer or into right of way.

