

TECHNICAL SPECIFICATIONS

ITEM 6

STORM DRAINAGE

1. General: This item includes the construction of underground storm drainage facilities, particularly for new developments. The use of open channels shall be limited to major drainage facilities in open areas. Storm drainage facilities shall include inlets, manholes, pipe drains, culverts, headwalls, and pipe underdrains. All except underdrains shall be designed to convey the runoff from a one-hundred (100) year storm from the area served by the storm drain, including any contributing areas, without any significant ponding in streets or overflows onto adjacent property. All storm drains shall discharge into larger collector drains or outfall into natural major drainageways or streams within the same drainage area in such a manner as to not endanger downstream property or facilities from increased or concentrated flows caused by the storm drainage facility. Design of all storm drainage facilities must be approved by the City Engineer. Materials and construction methods shall conform to requirements specified hereinafter.
2. Excavation, Trenching, and Backfilling shall conform to the applicable requirements of Item 1 of these specifications except for bedding as specified below.
3. Concrete shall conform to the requirements of Item 2, "Concrete", of these specifications. Concrete for structures such as inlets, manholes, and headwalls shall be Class A.
4. Storm Drain Lines and Culverts materials and construction shall conform to Items 464 and 465 of the Texas Highway Department Standard Specifications except as provided above. Pipe jointing materials shall be rubber gaskets or cold applied preformed plastic gaskets unless otherwise approved by the City Engineer. Bedding shall be Class B. Pipe shall be precast reinforced concrete unless otherwise approved.
5. Manholes and Inlets shall conform to Items 470 and 471 of the Texas Highway Department Standard Specifications.
6. Pipe Underdrains shall conform to Items 510 of the Texas Highway Department Standard Specifications, of the type pipe approved for use.