

## STORM DRAINAGE SYSTEM

The Storm Drainage Facilities Improvements Program consists of the following major components:

**The Storm Water Management Program (SWMP)**, which is to reduce the risk of structural flooding by protecting properties from flood damage during a 100-year (1% probability) rainfall event. The program targets local drainage systems and integrates with the primary drainage channels and bays, which are the responsibility of the Harris County Flood Control District (HCFCD).

**The Localized Drainage Improvements Program** consists of small drainage improvement projects of typically less than \$500,000. There is a backlog of small drainage issues which when resolved can protect many homes from structural flooding. In many cases one section of pipe, a missing

overflow section, or inadequate inlets are the only improvements needed to solve the problem. A quick solution will resolve the problems of an otherwise adequate system. On-call engineering and construction contacts will be used to address these problems quickly and cost effectively.

**The Comprehensive Drainage Plan (CDP)**, which prioritizes projects based on specific criteria such as the number of reported structural flooding incidents and repetitive loss properties, has identified more than \$2 billion of inadequate systems in the City to be upgraded. This program prioritizes, scopes, designs, and constructs solution to the inadequacies identified for this long-term program.

The projects selected to start this program have the highest numbers of flood-damaged properties by drainage area. Each project will be designed to keep the localized drainage in the piping or street sheet flow system to

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protect the structures from flooding during the 100-year rainfall event. Properties within a riverine 100-year flood zone will be protected from local drainage flooding, but may not be protected from the riverine flooding until the Harris County Flood Control District projects are completed.

**Projects supported by Community Development Block Grants (CDBG) funding** include \$8.5 million in FY2011-2015.

In summary, the FY2011-2015 Storm Drainage Facilities Improvements Program totals \$297 million and is funded primarily by general obligation debt including voter-authorized bonds and commercial paper. Another funding source includes federal grants (CDBG) for \$8.5 million