

Statewide Flood Control Program (SWFCP) Grant Drainage Improvements Kenner, LA

Completed – 2015
\$4,570,000

Owner City of Kenner Department of Public Works

Reference Mr. Jose Gonzales, P.E., Director of Public Works, 504-468-7515

Statewide Flood Control Program (SWFCP) grant drainage improvements, Kenner, LA. LDOTD's Statewide Flood Control Program grant funding was utilized to undertake stormwater drainage system improvements to two neighborhoods (University City and Audubon Place Subdivisions) in the city. The estimated project cost was \$4.57 million, with a grant amount of \$2.7 million. The project was conducted from beginning to conclusion, which included preparing the grant pre-application package, coordinating with the City and LDOTD staff, conducting hydraulic and hydrologic analyses (HYDRWIN and SWMM), communicating with LDOTD experts on the project's feasibility and technical merit, conducting multiple site visits with LDOTD experts and project staff to clarify project features and existing drainage infrastructure, and facilitating continuous communication with the City's elected representatives about the status of grant process. On course of this project, excellent working relationship was forged with LDOTD's SWFCP staff and experts. Significant coordination was required with LDOTD staff due to the unique drainage conditions in the New Orleans area and due to the SWMM models of the city's previous drainage master plan work required to be re-analyzed with LDOTD's HYDRWIN software. The project involved (i) installation of new subsurface drainage pipes and inlets along three city streets, and (ii) upgrading of existing drainage features with larger subsurface pipes, inlets and outfall pipe along three other city streets. The subsurface pipes ranged in size from small 18 inch diameter circular pipes to large 54"x88" arch pipes. Adjustment of sanitary sewer house connections, and numerous pavement restoration tasks were included in this project as well. This project required continuous coordination with the DPW staff during the course of this project. Most of the drainage improvements under this project were derived from previously completed Master Drainage Plan, while the new improvements were compared with the Master Drainage Plan as well to ensure that no conflicts arise.

Objectives

- Apply for and obtain LDOTD Statewide Flood Control Program grant funding.
- Storm drainage improvements in two neighborhoods.
- Installation of new subsurface drainage pipes and inlets along three streets.
- Upgrading of existing drainage features.

Work Elements

- Project conducted from Beginning to conclusion, including preparing the Grant Pre-application package.
- Hydrologic and hydraulic (H&H) modeling of the planned drainage improvements in two neighborhoods
- Hydrologic and Hydraulic Modeling
- Hydrologic and Hydraulic analyses (HYDRWIN and SWMM)
- Significant coordination with LDOTD and City of Kenner
- Increase size of subsurface drainage pipes from 18" diameter circular pipes to large 54"x88" arch pipes