

2013 Bond Fund Water & Sanitary Sewer Replacement Project - Flood Study for Johnson Woods Drainage Improvements City of Paris, Texas



The Johnson Woods Drainage Improvements Flood Study provided updated technical data for the improvements of the Johnson Woods Channel. The City of Paris was provided planning alternatives and conceptual design recommendations for the project reach and was supplied with the necessary updated drainage information to coordinate future development and help minimize existing and potential flooding and erosion damages to the project reach.

This project consisted of project management, field reconnaissance, a stream condition assessment, topographic survey, development of detailed hydrologic and hydraulic models, delineation of an updated floodplain and floodway, development of conceptual design alternatives, and the submission of a Letter of Map Revision to FEMA.

The two main goals of this study was to more accurately map the 100-year floodplain (36 structures removed) and develop conceptual design recommendations to cost effectively restore and protect this severely eroded channel. A conceptual design with trapezoidal cross sections and an Advanced Reinforced Vegetative System was recommended and subsequently approved by the City.

Services provided by Hayter Engineering are listed at right.

The project was completed in 2018.

CLIENT

City of Paris, Texas

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SERVICES PROVIDED

Preliminary Engineering Report
Topographic Surveys
Hydrologic and Hydraulic Modeling
Field Reconnaissance
Stream Condition Assessment
Conceptual Design Alternatives