

Project Name: Multiple Pump Stations – Lovett Road Area
(program #NFE-C-0002)

Project Type: Capacity

City-Parish Project #: 07-PS-BD-0018

Project Description: PS230 is located along Morgan Meadow Avenue, east of the intersection of Morgan Meadow Avenue and Shoe Creek Drive. Forcemain segment PS230DS goes down Morgan Meadow Avenue for approximately 1,200 feet. PS282 is located at the end of Regent Avenue, east of the intersection of Regent Avenue and Trendale Drive. The majority of the area contributing to the pump station is residential. PS187 is located at the end of Clear Oak Avenue, just east of the intersection of Clear Oak Avenue and Oak Meadow Drive. The majority of the area contributing to the pump station is residential. The project is to replace PS230, PS282, PS187 to alleviate SSOs at the pump stations as well as the forcemain existing at PS230, PS282, and PS187. Replacement of a portion of the gravity main upstream of PS230 is also included.

Design Consultant: Hartman Engineering

Construction Contractor: Don M. Barron, Contractor

Project Schedule:

PHASE	START	END	STATUS
Design	January 2008	January 2009	100% complete – ahead of schedule
Construction Bid Phase	January 2009	March 2009	100% complete – ahead of schedule
Construction	March 2009	February 2010	0% complete

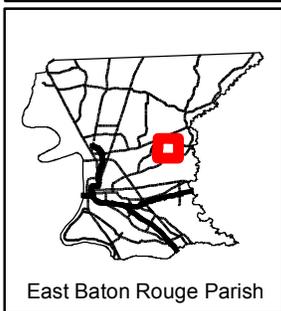
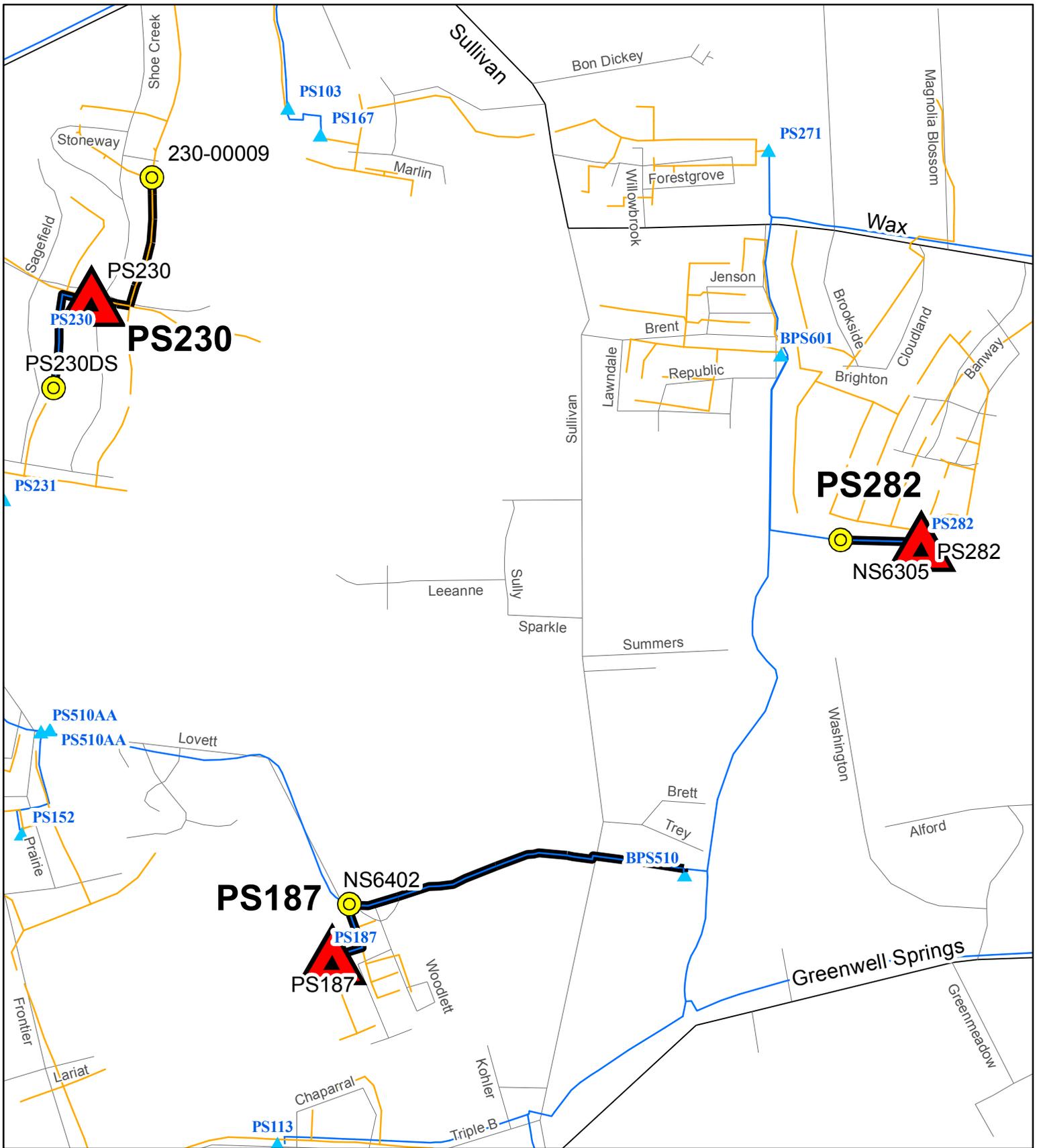
Project Budget:

CITY APPROPRIATIONS TO-DATE

PROGRAM BUDGET

Account	Budget To-Date	Encumbrances	Expenses	Balance	Program Delivery Plan
Design	\$488,500	\$40,112	\$409,888	\$38,500	\$450,000
Inspection	\$111,500	\$0	\$0	\$111,500	\$0
Miscellaneous	\$0	\$0	\$0	\$0	\$0
Contingencies	\$0	\$0	\$0	\$0	\$0
Right-of-Way Acquisition	\$100,000	\$2,737.50	\$13,165.25	\$84,097.25	\$0
Construction	\$4,500,000	\$3,400,000	\$0	\$1,100,000	\$3,180,000
TOTAL	\$5,200,000	\$3,442,850	\$423,053	\$1,334,097	\$3,630,000

Attachments: Project Vicinity Map
Project Detail Report
(In-Depth Project Description taken from the Program Delivery Plan)



Legend

Proposed	Existing
New Pump Stations	Exist. Gravity
New Gravity Main	Exist. Forcemain
New Force Main	Exist. Pump Station
New Storage Facility	Manholes/Nodes

0 0.1 0.2 0.4 Miles



NFE-C-0002
Figure 5-12
Project Vicinity Map

5.4.2 NFE-C-0002 (Multiple PS – Lovett Road Area)

Project Description

Purpose of the Project/Project Background

The purpose of Project NFE-C-0002 (Multiple Pump Stations – Lovett Road Area) is to replace PS 230, PS 282, and PS 187 to alleviate SSOs at and near the pump stations. This project also includes the upsizing of the forcemains from the three pump stations as well as the gravity sewer that feeds PS 230. This project is currently under design and will be advertised for construction in the first quarter of 2009.

Location

The locations of the pump stations is described in Table 5-8.

Gravity segment 230-00009 to PS 230 begins at manhole 230-0009, which is located near the intersection of Sagebrush Avenue and Shoe Creek Drive, and travels south along Shoe Creek Drive to Morgan Meadow Avenue, where it then parallels Morgan Meadow Avenue in a westerly direction to PS 230, which is located on Morgan Meadow Avenue in between its intersection with Shoe Creek Drive and Sagefield Drive.

Forcemain segment PS 230 to PS230DS begins at PS 230, describe above, and follows Morgan Meadow Avenue in a westerly direction to its intersection with Sagefield Drive, where it then parallels Sagefield Drive in a southerly direction to its termination point at manhole PS 230DS, which is located on Sagefield Drive, approximately halfway in between Morgan Meadow Avenue and Conwood Avenue.

Forcemain segment PS 187 to NS6402 begins at PS 187, located near the intersection of Clear Oak Avenue and Oak Meadow Drive, goes east down Clear Oak Avenue then turns north on Woods Edge Drive and terminates at node NS6402, located near the intersection of Woods Edge Drive and Lovett Road.

Forcemain segment PS 282 to NS6305 begins at PS 282, located near the intersection of Regent Avenue and Trendale Drive, goes west through a wooded area crossing an unnamed channel, then turns north and follows the channel bank and terminates at node NS6305, near the intersection of Brookside Drive and Brighton Avenue.

Scope

The scope of this project includes three pump station replacements, approximately 4,200 feet of 6-inch and 8-inch forcemain, and approximately 2,100 feet of 12-inch gravity sewer. The detailed scope is shown in Tables 5-8 and 5-9.

TABLE 5-7
NFE-C-0002 (Multiple Pump Stations – Lovett Road Area)

PS No.	Location	Existing Max Capacity (GPM)	Future Peak Wet Weather Flow (GPM)	Comments
PS 230	Morgan Meadow Ave, near the intersection of Shoe Creek Drive	417	1,229	
PS 282	Regent Ave, near the intersection of Trendale Drive	127	924	
PS 187	Clear Oak Ave, near the intersection of Oak Meadow Drive	139	382	

TABLE 5-8
NFE-C-0002 (Multiple Pump Stations – Lovett Road Area)

US Node	DS Node	Length (ft)	Existing Diameter (in)	Proposed Diameter (in)	Comments
230-00009	PS230	2100	8	12	Gravity segment
PS230	PS230DS	1200	6	8	
PS187	NS6402	1100	4	6	
PS282	NS6305	1900	4	8	

Note: The existing maximum capacities for the PSs were obtained from the DPW Field Pump Station Maintenance reference guide. The future peak wet weather flow was obtained from the BTRSSO hydraulic model. The existing pipe sizes and lengths were obtained from the BTRSSO hydraulic model.

Total Estimated Construction Cost is \$3,000,000.

Design was appropriated in 2007.

Scheduled Construction Appropriation Year is 2008 (already appropriated).