

PROJECT DETAIL REPORT

Project Name: Gurney Road – Joor Road
(program #NFE-C-0001)

Project Type: Capacity

City-Parish Project #: 07-PS-BD-0017

Project Description: The Gurney Road – Joor Road project involves replacing PS176 to alleviate SSOs at and near the pump station and forcemains exiting PS176 and PS284. PS176 will be sized to meet future peak wet weather flow. PS176 is located on the south side of Tallowood Avenue between the intersections of Pheasantwood Drive and Partridgewood Drive.

Design Consultant: Neel-Schaffer

Construction Contractor: Grady Crawford

Project Schedule:

PHASE	START	END	STATUS
Design	January 2008	August 2008	100% complete – ahead of schedule
Construction Bid Phase	August 2008	October 2008	100% complete – ahead of schedule
Construction	October 2008	October 2009	30% complete – ahead of schedule

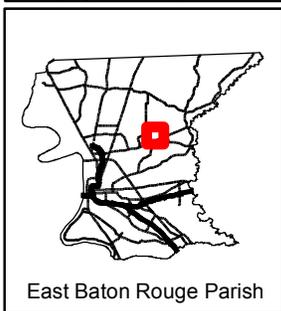
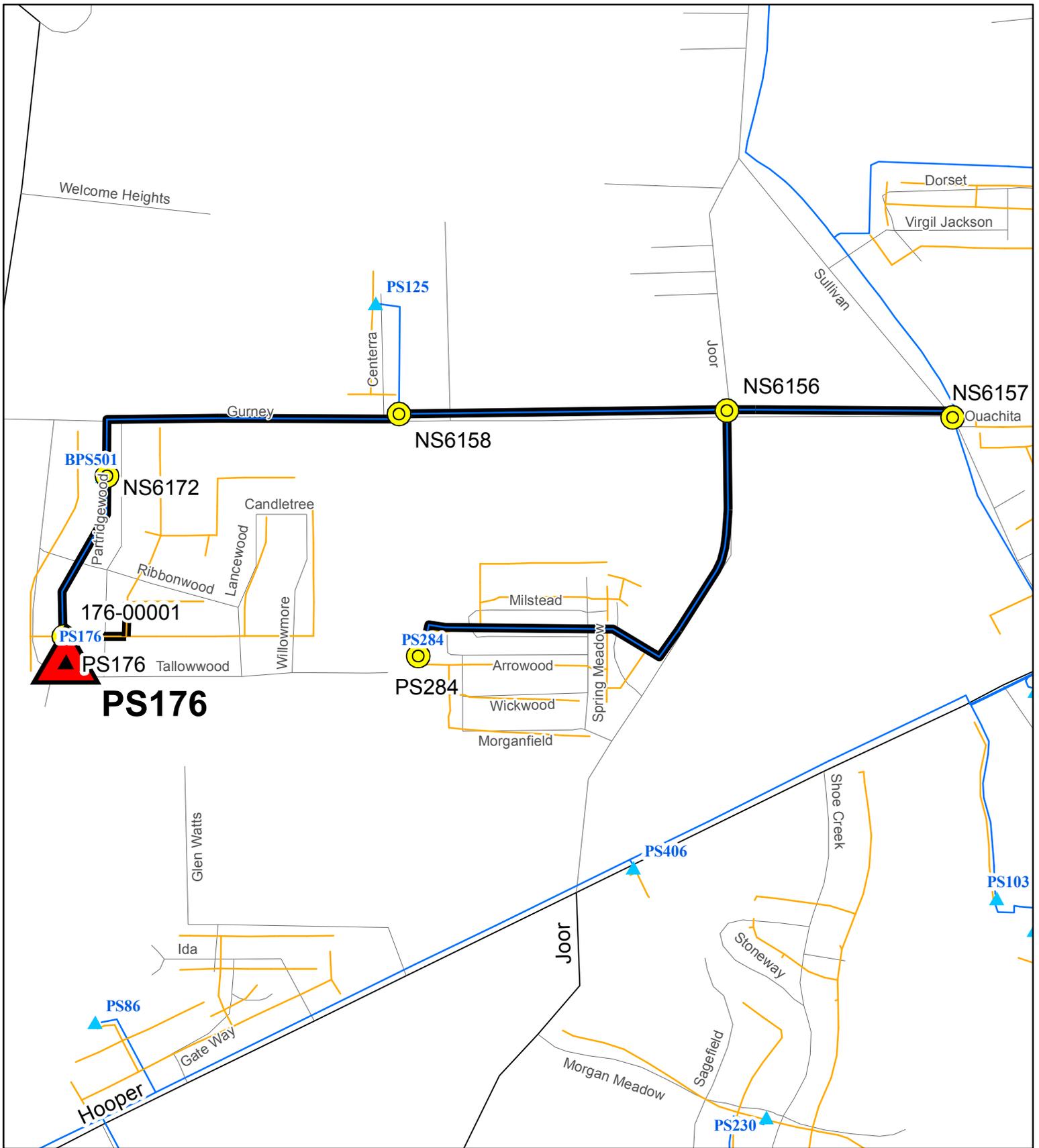
Project Budget:

CITY APPROPRIATIONS TO-DATE

PROGRAM BUDGET

Account	Budget To-Date	Encumbrances	Expenses	Balance	Program Delivery Plan
Design	\$360,000	\$35,383.87	\$324,616.13	\$0	\$360,000
Inspection	\$170,000	\$0	\$5,600.50	\$164,399.50	\$0
Miscellaneous	\$0	\$0	\$0	\$0	\$0
Contingencies	\$0	\$0	\$0	\$0	\$0
Right-of-Way Acquisition	\$50,000	\$0	\$1,154	\$48,846	\$0
Construction	\$4,200,000	\$1,396,346.62	\$95	\$2,803,558.38	\$1,800,000
TOTAL	\$4,780,000	\$1,431,730	\$331,466	\$3,016,804	\$2,160,000

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 0.050.1 0.2
Miles



NFE-C-0001
Figure 5-11
Project Vicinity Map



5.4 North Forcemain System Capacity Improvements Projects

5.4.1 NFE-C-0001 (Gurney Road – Joor Road)

Project Description

Purpose of the Project/ Project Background

The purpose of Project NFE-C-0001 (Gurney Road – Joor Road) is to replace PS176 to alleviate SSOs at and near the pump station. The forcemains exiting PS 176 and PS 284 will also be upsized. In addition, future wet weather peak flow at PS 176 is predicted by the BTRSSO model to be greater than the existing maximum capacity of the pump station. This project is currently under design and will advertise for construction in September 2008.

Location

The location of PS 176 is described in Table 5-6.

Forcemain segment PS 176 to NS 6157 begins at PS 176, located on Tallowwood Avenue, between Pheasantwood Drive and Partridgewood Drive, travels north on Partridgewood Drive to Gurney Road, follows Gurney Road east, and terminates at node NS6157, near the intersection of Gurney Road with Sullivan Road.

Gravity segment 176-00001 to PS 176 begins at manhole 176-00001, which is located near the pump station, which is on Tallowwood Avenue between Pheasantwood Drive and Partridgewood Drive, and travels to PS 176.

Forcemain segment PS 284 to NS6156 begins at PS 284, located at the cul-de-sac on Fairmead Drive, travels down a servitude that parallels to the north of Arrowood Avenue, proceeds up Joor Road and terminates at node NS 6156, which is located at the intersection of Joor Road and Gurney Road.

Scope

This project includes replacement of one pump station as well as approximately 14,500 feet of 8-inch, 10-inch, 12-inch, and 14-inch forcemain and approximately 100 feet of 15-inch gravity sewer. Tables 5-6 and 5-7 show the detailed scope of the project.

TABLE 5-6
NFE-C-0001 (Gurney Road – Joor Road) – Pump Stations

PS No.	Location	Existing Max Capacity (GPM)	Future Peak Wet Weather Flow (GPM)	Comments
PS 176	Tallowwood Ave, between the intersection of Pheasantwood Drive and Partridgewood Drive	417	1,187	

TABLE 5-7

NFE-C-0001 (Gurney Road – Joor Road) - Pipelines

US Node	DS Node	Length (ft)	Existing Diameter (in)	Proposed Diameter (in)	Comments
PS 176	NS6172	1800	6	10	
NS6172	NS6158	75	8	10	
NS6158	NS6156	3400	10	12	
NS6156	NS6157	2500	10	14	
176-00001	PS176	100	8	15	Gravity segment
PS 284	NS6156	6700	6	8	

Note: The existing maximum capacities for the pump stations 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 \$1,700,000.

Design was appropriated in 2007.

Scheduled Construction Appropriation Year is 2008 (already appropriated).