



TRANSPORTATION & STREET IMPROVEMENTS PROGRAM

Project: Staring Lane Extension 1 (Burbank Drive to Highland Road)

Green Light Program ID: F
 Project Length (feet): 2,905
 Existing Typical Section: New Facility
 Proposed Typical Section: Four-lane curb and gutter with sidewalks

Project Overview

This project will provide a link from Essen-Staring Lane directly to Burbank Drive by adding an extension to Staring Lane. The right-of-way for this project has already been acquired by DOTD.

Project features include construction of sound walls along the Highland Creek Subdivision that border the roadway right-of-way and a bridge crossing Bayou Fountain. It includes the Bayou Fountain channel re-alignment that parallels the roadway to minimize proposed bridge length crossing Bayou Fountain. It will provide an improved north-south corridor when combined with the proposed Staring Lane improvement project.

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ASSUMPTIONS

- ABMB Engineering, Inc. performed a Cross-Section Analysis for the City of Baton Rouge Department of Public Works and recommended a five-lane section for the corridor within the existing 100' right of way. However, this report will focus on a proposed four-lane with curb & gutter roadway section.
- Project requires abandoning the existing BREC park to accommodate the proposed roadway.
- Re-align the segment of Bayou Fountain that parallels the proposed roadway to minimize proposed bridge length.
- Add left turn lanes on Highland Road to improve the intersection of Staring Lane Extension at Highland Road.

UTILITIES

Possible Utilities	Existing	Adjust / Relocate
Underground Electric	●	●
Overhead Electric	●	●
Overhead Electric Transmission		
Water	●	●
Sanitary Sewer	●	●
Telephone	●	●
CATV	●	●
Gas Distribution		
Gas HP Pipeline		

A subsurface utility investigation (SUE) should be performed, and related cost is included in the Final Engineering cost estimate.

HYDROLOGY / HYDRAULICS

- Bayou Fountain runs parallel on the west side of the corridor from south of Stoney Creek Avenue south, and then crosses the corridor. Preliminary bridge hydrology analysis requires 200' bridge crossing Bayou Fountain.
- Provide subsurface drainage system to collect surface runoff, along with swales behind the curb in shallow segment.

TRAFFIC

- Projected Average Daily Traffic (ADT) for year 2030 is 11,893 vehicles. The proposed project will provide a level-of-service A for design year 2030.



SIGNALIZED INTERSECTIONS

- Based on anticipated traffic, a new traffic signal will be required at Burbank Drive to provide one right and one left turn lanes for southbound approach of Staring Lane Extension to Burbank Drive.
- Proposed traffic signal at Highland Road to provide one left and two through lanes for northbound approach of Staring Lane Extension. Highland Road eastbound approach includes left turn and through lanes, and westbound approach includes left, through and right turn lanes.

RIGHT OF WAY IMPACTS

- The proposed roadway section will be constructed within the 100' existing right of way width previously purchased by DOTD.
- 300'x125' additional right of way on the west side of Staring Lane Extension 1 between Bayou Fountain Avenue and Stoney Creek Avenue is required for the Bayou Fountain channel re-alignment. The tax assessment roll does not show private ownership for this parcel, therefore it is assumed that the parcel is owned by the State.
- Right of way will be required to widen Highland Road and provide left turn lane at the intersection of Staring Lane Extension 1 and Highland Road.

ENVIRONMENTAL CONCERNS

- Approximately 1 acre of potential wetlands exist for the segment near Burbank Drive. Wetland delineation and mitigation will be required for the project.
- Cultural impacts include eliminating BREC Highland Creek Park within the existing right of way in order to construct the roadway.
- Provide approximately 2600' of noise walls on both sides of Staring Lane Extension 1 along Highland Creek Subdivision.

SOILS

- Project soils are dominantly level, poorly drained and somewhat poorly drained.
- Loamy soils on broad natural levees of the Mississippi River flood plain, protecting the area from overflow.



COST ESTIMATE

Project Description:	Four-lane curb and gutter with sidewalks		
Project Length:	2905 Feet (0.55 miles)		
	CONSTRUCTION COST		
Section 200 -	Earthwork	\$	351,022
Section 300 -	Base and Subbase Courses	\$	436,992
Section 400 -	Surface Courses	\$	-
Section 500 -	Pavements	\$	985,816
Section 600 -	Structures	\$	2,376,000
Section 700 -	Drainage Work	\$	674,040
Section 800 -	Sanitary Sewer Work	\$	4,800
Section 905 - 906	Pavement Markings & Signalization	\$	585,625
Section 907 - 911	Concrete Curbs & Sidewalks	\$	255,640
	SUBTOTAL CONSTRUCTION COST (2006 \$)	\$	5,669,935
MOBILIZATION		\$	453,595
	SUBTOTAL	\$	6,123,530
CONTINGENCY & UNFORESEEN CONDITIONS		\$	1,224,706
	SUBTOTAL	\$	7,348,236
	TOTAL CONSTRUCTION COST (2006 \$)	\$	7,348,236
UTILITY RELOCATIONS		\$	62,895
TESTING		\$	183,706
LIGHTING, LANDSCAPING, SEEDING		\$	293,929
ENVIRONMENTAL STUDY		\$	205,000
ENGINEERING		\$	734,824
ENVIRONMENTAL MITIGATION		\$	40,000
RIGHT-OF-WAY		\$	748,018
	SUBTOTAL	\$	9,616,608
PROGRAM & CONSTRUCTION MANAGEMENT		\$	480,830
	TOTAL PROJECT COST (2006 \$)	\$	10,097,438

Comments:

- Unit costs are assumed to include contractor overhead, profit and mark-ups
- Environmental mitigation will include environmental and protection of cultural resources
- Mobilization is expected to be 8% of construction cost
- Contingency and Unforeseen Conditions are expected to be 20% of construction cost
- Testing is expected to be 2.5% of construction cost
- Lighting, Landscaping, and Seeding is expected to be 4% of construction cost
- Note: Percent Cost is for the GLP Program Average and NOT project specific obligation
- Engineering is expected to be 10% of construction cost
- Program & Construction Management is expected to be 5% of project costs

