



TRANSPORTATION & STREET IMPROVEMENTS PROGRAM

Project: Siegen Lane (Highland Road to 650' S. of Perkins Road)

Green Light Program ID: X
 Project Length (feet): 6,240
 Existing Typical Section: Two-Lane, Undivided
 Proposed Typical Section: Four-lane curb and gutter boulevard

Project Overview

Siegen Lane is currently a two-lane roadway without shoulders from Burbank Drive to Perkins Road. The proposed typical section is a four-lane curb and gutter roadway with a raised median and sidewalks on both sides. When combined with proposed improvement to Burbank Drive and an existing project on North Sherwood Forest, the project will provide a vital north-south/east-west link that will extend from Greenwell Springs Road south to Burbank Drive and then westward into the LSU and downtown area.

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In association with:

PBS&J

GOTECH, Inc.

Neel-Schaffer, Inc.

Compliance Consultants, Inc.

Jones Walker, LLP

John C. Doiron
 MAI Appraisal Services

Rampart Resources

SSA Consultants, LLC

ASSUMPTIONS

- Project schedule assumes the project will have to go through the NEPA process.
- Cost estimate assumes a pavement design of 10" Portland cement concrete pavement, 10" limestone aggregate base course, and 12" lime treated subgrade.

UTILITIES

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

It is recommended that a Subsurface Utility Investigation (SUE) be conducted for this project. The cost of this activity is included within the final engineering cost.

HYDROLOGY / HYDRAULICS

- Drainage system at Perkins and Siegen is not deep enough, but it may be possible to replace the pipe to deepen the outfall.
- Existing pond on the west side of the road near the beginning of the project will most likely require the elevation of the profile to be raised. Culverts in this area act as an outfall for the pond.

TRAFFIC

- Project Average Daily Traffic (ADT) for year 2030 is 29,543. The proposed project will provide a Level of Service (LOS) C for year 2030.



SIGNALIZED INTERSECTIONS

- A signal will be added to the Siegen Lane and North Oak Hills Parkway intersection. In addition to the two through lanes along Siegen Lane, the intersection configuration will include a left and a right-turn lane from Siegen onto North Oak Hills. There will be a single lane on eastbound North Oak Hills approaching Siegen Lane.

RIGHT OF WAY IMPACTS

- Existing right of way is approximately 90'.
- Proposed typical section requires 100' desired right of way; therefore, approximately 10' of additional right of way will be acquired along the length of the project.
- A church is located at the S-curve on the east side. North of the S-curve there is a church/school complex.
- The lake at the beginning of the project on the west side will have to be avoided.
- Existing west right of way line will be held and the additional 10' of right of way width will be purchased on the east side.

ENVIRONMENTAL CONCERNS

- Potential wetlands at the northeast corner of Highland and an existing pond on the west side of the south end of the project. Estimate one acre for environmental mitigation. Existing ditches along both sides of roadway throughout the project. Estimate one additional acre for environmental mitigation.
- Dry-cleaners, Keans, located at Perkins has potential hazardous substances.
- Two churches within project limits, Grace Life and Word of Life.
- Noise study should be conducted due to possible concerns at Winterhue and Quail Hollow, but assume that noise mitigation will not be necessary.

SOILS

- Soils are poorly drained to moderately well drained and loamy.



COST ESTIMATE

Project Description: Four-lane curb and gutter boulevard

Project Length: 6240 Feet (1.18 miles)

	CONSTRUCTION COST	
Section 200 -	Earthwork	\$ 562,306
Section 300 -	Base and Subbase Courses	\$ 1,502,913
Section 400 -	Surface Courses	\$ -
Section 500 -	Pavements	\$ 2,809,633
Section 600 -	Structures	\$ -
Section 700 -	Drainage Work	\$ 1,462,630
Section 800 -	Sanitary Sewer Work	\$ -
Section 905 - 906	Pavement Markings & Signalization	\$ 899,480
Section 907 - 911	Concrete Curbs & Sidewalks	\$ 648,960
	SUBTOTAL CONSTRUCTION COST (2006 \$)	\$ 7,885,923
MOBILIZATION		\$ 630,874
	SUBTOTAL	\$ 8,516,797
CONTINGENCY & UNFORESEEN CONDITIONS		\$ 1,703,359
	SUBTOTAL	\$ 10,220,156
	TOTAL CONSTRUCTION COST (2006 \$)	\$ 10,220,156
UTILITY RELOCATIONS		\$ 1,256,753
TESTING		\$ 255,504
LIGHTING, LANDSCAPING, SEEDING		\$ 408,806
ENVIRONMENTAL STUDY		\$ 160,000
ENGINEERING		\$ 1,022,016
ENVIRONMENTAL MITIGATION		\$ 40,000
RIGHT-OF-WAY		\$ 4,361,450
	SUBTOTAL	\$ 17,724,685
PROGRAM & CONSTRUCTION MANAGEMENT		\$ 886,234
	TOTAL PROJECT COST (2006 \$)	\$ 18,610,919

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

