



TRANSPORTATION & STREET IMPROVEMENTS PROGRAM

Project: Seyburn Drive Extension (Burbank Drive to Highland Road)

Green Light Program ID: W
 Project Length (feet): 1,180
 Existing Typical Section: None
 Proposed Typical Section: Three-lane, curb & gutter

Project Overview

The Seyburn Drive Extension is a new location roadway connecting Highland Road to Burbank Drive. The proposed typical section is a three-lane curb and gutter roadway with sidewalks on both sides. Three locations for this new location roadway were considered, but the one contained in this report lines up with Seyburn Drive. This project would provide a vital link connecting the Highland Road corridor directly to Burbank Drive and would be located approximately one and a half miles east of Lee Drive, midway between Lee Drive and Staring Lane. This project would require a new bridge crossing Bayou Fountain.

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ASSUMPTIONS

- Originally there were three alignments considered for this roadway: Woodstone, Seyburn Drive, and Kenilworth. The Kenilworth alignment would be the desired location; however, there is a cemetery and daycare facility that would have to be removed for this alternative. Based on the extreme difficulty of relocating a cemetery, this alignment is determined to be infeasible. Option B, Seyburn Drive, is the preferred alignment. The costs and schedule in this report are developed based on Option B.
- Project schedule assumes the project will not have to go through the NEPA process.
- Cost estimate assumes a pavement design of 8" Portland cement concrete pavement, 6" limestone aggregate base course, and 10" 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		

HYDROLOGY / HYDRAULICS

- New project alignment intersects with Bayou Fountain. A 180' long proposed bridge with 9 spans would be required. The new location project would drain to this bayou.

TRAFFIC

- Project Average Daily Traffic (ADT) for year 2030 is 11,091. The proposed project will provide a Level of Service (LOS) A for year 2030.



SIGNALIZED INTERSECTIONS

- Proposed signals are required at Highland Road and Burbank Drive.
- In addition to the through lane in each direction along Highland Road, there will be a left-turn and a right-turn lane from Highland to Seyburn Drive Extension. The northbound Seyburn Drive Extension will have a shared through/left-turn lane and a right-turn lane. Southbound Seyburn Drive will remain in its existing configuration.
- There will be two proposed through lanes in each direction along Burbank Drive, a left-turn from Burbank to Seyburn Drive Extension, and a right-turn lane from Burbank to Seyburn Drive Extension. The southbound Seyburn Drive Extension will have a left-turn and a right-turn lane to Burbank.

RIGHT OF WAY IMPACTS

- There is no existing right of way.
- Approximately 80' wide corridor would be required for the proposed new location roadway.

ENVIRONMENTAL CONCERNS

- Potential wetlands at the south end of the project near Burbank. Estimate two acres for environmental mitigation.
- Permit will be required for proposed bridge over Bayou Fountain.

SOILS

- Project area soils are somewhat poorly drained to moderately well drained and loamy.



COST ESTIMATE

Project Description:	Four lane with curb & gutter		
Project Length:	1180 Feet (0.22 miles)		
	CONSTRUCTION COST		
Section 200 -	Earthwork	\$	106,993
Section 300 -	Base and Subbase Courses	\$	159,000
Section 400 -	Surface Courses	\$	-
Section 500 -	Pavements	\$	337,352
Section 600 -	Structures	\$	540,000
Section 700 -	Drainage Work	\$	414,270
Section 800 -	Sanitary Sewer Work	\$	400
Section 905 - 906	Pavement Markings & Signalization	\$	381,140
Section 907 - 911	Concrete Curbs & Sidewalks	\$	94,396
	SUBTOTAL CONSTRUCTION COST (2006 \$)	\$	2,033,551
MOBILIZATION		\$	162,684
	SUBTOTAL	\$	2,196,235
CONTINGENCY & UNFORESEEN CONDITIONS		\$	439,247
	SUBTOTAL	\$	2,635,482
	TOTAL CONSTRUCTION COST (2006 \$)	\$	2,635,482
UTILITY RELOCATIONS		\$	16,506
TESTING		\$	65,887
LIGHTING, LANDSCAPING, SEEDING		\$	105,419
ENVIRONMENTAL STUDY		\$	210,000
ENGINEERING		\$	263,548
ENVIRONMENTAL MITIGATION		\$	120,000
RIGHT-OF-WAY		\$	782,562
	SUBTOTAL	\$	4,199,404
PROGRAM & CONSTRUCTION MANAGEMENT		\$	209,970
	TOTAL PROJECT COST (2006 \$)	\$	4,409,374

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

