

**Scope of Services**  
**Lindberg Drive Improvements**  
**Stage 0 Feasibility Study**  
**(RPC Task SL-1.17; FY-17 UPWP)**

The purpose of this project is to perform a Stage 0 Feasibility Study to identify potential improvements along Lindberg Drive on its approach to the signalized intersection at US 190 (Gause Boulevard) to reduce congestion and promote efficient traffic flow. Lindberg Drive is presently a two-lane, two-way roadway that experiences significant back-up from the signalized intersection at US 190 (Gause Boulevard). This causes major delays for motorists along Lindberg Drive as well as hindrances to the ingress and egress ability of patrons to/from the commercial establishments along the route. Traffic and related data will be collected to provide a detailed description of existing traffic operational and safety problems and produce specific recommendations for roadway improvements to address identified deficiencies. Possible improvements to consider will include but not be limited to roadway capacity enhancements and modification to the traffic signal operation at the US 190 (Gause Boulevard) intersection.

To adequately assess potential modifications to the traffic signal operation at the Lindberg Drive and US 190 (Gause Boulevard) intersection, an analysis of adjacent signalized intersections within the coordinated traffic signal system will be required.

The analysis will look specifically at the follow intersections included in the study area.

- US 190 (Gause Boulevard) @ Lindberg Drive & Kensington Boulevard
- US 190 (Gause Boulevard) @ Lakewood Drive & Rue Rochelle
- US 190 (Gause Boulevard) @ Midtown Square Shopping Center Main Entrance/Exit
- US 190 (Gause Boulevard) @ I-10 West Service Road
- All driveway connections along Lindberg Drive within 500 feet of US 190 (Gause Boulevard)

This project will include the following tasks.

**TASK 1: PROJECT TIMELINE AND KICK-OFF MEETING**

The Consultant will prepare a draft project schedule including major milestones for the Tasks to follow. The timeline will be submitted at a project kick-off meeting that will include representatives from the Consultant, any sub-Consultant, Regional Planning Commission, the City of Slidell, and LADOTD District 62. Other attendees will be invited as necessary. The kick-off meeting will take place within two (2) weeks of the Notice to Proceed.

## **TASK 2: PROJECT MANAGEMENT COMMITTEE**

The Consultant will assist the RPC in establishing and supporting a Project Management Committee (PMC) to guide the technical work effort and to review the Consultant's work products. The PMC will include representatives from the RPC, City of Slidell, DOTD District 62, and others stakeholders as deemed appropriate. The Consultant will provide all necessary agendas, handouts, and exhibits in advance of the PMC meetings for the RPC review and approval and prepare summary minutes of the meetings.

The PMC will meet approximately four times during the course of the study effort. In addition, the Consultant will as necessary conduct meetings with elected officials and other local leaders and organizations in the area to discuss the project's purpose and need and project-related opportunities and concerns. The Consultant will receive prior approval from the RPC prior to initiating these contacts and prepare summary meeting minutes for review and discussion with the PMC.

## **TASK 3: SITE INVESTIGATION AND DATA COLLECTION**

Site visits and field inspections will be conducted and data collected as necessary regarding the physical, engineering, land-use, and environmental features of the study area to allow an accurate assessment.

Such data and information will include but may not be limited to traffic peak hour turning movement counts, traffic signal inventories, signage inventories, crash data, utility types, and adjacent land use and driveways.

Peak Hour Turning Movement Counts will be collected at the intersections and driveway connections within the study area listed above for the weekday A.M. and P.M. Peak Hours. These counts will be collected using current video technologies to insure the most accurate traffic data acquisition and provide a visual chronicle of the actual operation of intersections and roadways. In addition, it allows for a deeper analysis of the transportation system as well as a video archive for future evaluations.

## **TASK 4: TRAFFIC OPERATIONAL ANALYSIS**

Utilizing the traffic data collected in Tasks 3, the Consultant will develop, evaluate, and compare various alternatives for reducing congestion and improving traffic flow and safety along Lindberg Drive and within the study area. For comparison purposes, a HCM Level of Service Analysis will be performed on the present operational state of the intersections included in the study area during the A.M. and P.M. peak hours using the existing geometry, traffic controls, and traffic

volumes. Delay times (seconds per vehicles) and corresponding Level of Service (LOS) designations will be calculated using Synchro Software (Version 7).

A HCM level of service analysis will then be performed on recommended roadway and traffic signal modifications to assess the impact of these proposed improvements on traffic flow and congestion during A.M and P.M. peak hour. These measures may include but not be limited to roadway geometric modifications as well as improved signage, striping, and signal timing adjustments. These improvement scenarios will be developed in consultation with the PMC and presented to the PMC in draft form for review and comment prior to development of the detailed conceptual plan.

#### **TASK 5: CONCEPTUAL DEVELOPMENT AND EVALUATION**

The Consultant will prepare a detailed conceptual plan for the preferred improvement alternative describing recommended roadway and geometric improvements, signal timing adjustments, signage, lighting, and other potential measures to reduce traffic congestion and enhance safety along Lindberg Drive. The report will identify potential utilities, environmental constraints, or other issues that could influence the concept's feasibility and impact on the physical, natural and human environment. The Consultant will develop quantities and unit cost estimates for each element of the conceptual design plan of the preferred alternative as well as future project design costs, recommended project phasing, and potential funding sources for project implementation.

#### **TASK 6: DRAFT REVIEW**

A draft report with all documentation described above will be submitted to the RPC and others on the PMC. The report will include the conceptual layout of the preferred alternative and descriptions of the proposed improvements, including potential project phasing and costs.

#### **TASK 7: FINAL DELIVERABLES**

Following review and approval of the draft submission, the Consultant will provide the RPC with six (6) bound copies of the Final Study Report and supporting plan packages. A pdf version of the final report and plan packages will also be provided on compact disk, including supporting documentation created during the course of the study. DOTD Stage 0 and Environmental Checklist and the MPO Checklist will be included in the final report.

**TIMELINE: 4 Months**

**BUDGET: \$45,000**