

Scope of Work
Land Use and Transportation
Goodbee/ West St. Tammany
LA 1077 Corridor
RPC Task MC-1.21; FY-21

Project Description

The Regional Planning Commission is preparing a land use and transportation study for the area along the LA 1077 corridor in the Goodbee and western St. Tammany Parish areas. The project area limits for this analysis are as follows: LA 40 to the north, LA 21 to the east, Brewster Rd. to the south, and the Tangipahoa Parish line to the west.

The LA 1077 corridor to be reviewed is approximately 3.1 miles between US 190 and I-12. Capacity projects for US 190 (Collins Blvd) east of LA 25 (US 190B to LA 25) are planned, have received a FONSI per the NEPA process, and are being implemented in phases. The section of US 190 west of LA 25 and eventual enhanced access to I-12 represents the next step in accommodating forecasted and planned growth in western St. Tammany.

Purpose: The purpose of the planning study is to determine the high-level costs and feasibility and potential environmental concerns of a roadway capacity project for LA 1077 from US 190 south to I-12 in the Covington and Goodbee areas of St. Tammany parish.

Need: The need for the analysis results from increased traffic resulting from population growth and development in this area of St. Tammany. Several TSM projects have been implemented in the corridor that have improved localized traffic congestion. It is believed by the parish and RPC that growth in the corridor continues to outpace localized improvement efforts, and that a high level, longer term analysis for a capacity project is warranted.

Tasks to be performed by the technical consultant include:

TASK 1: PROJECT MANAGEMENT COMMITTEE

The consultant will assist RPC in establishing and supporting a Project Management Committee to guide the technical work effort and to review the consultant's work products. The PMC will consist of the RPC, St. Tammany Parish, the District Traffic Operations Engineer or their designee for LADOTD District 62, and other stakeholders, as appropriate. The consultant will provide all necessary agendas, handouts and exhibits in advance of PMC meetings for RPC review and approval and prepare summary minutes of the meetings.

The PMC will meet not more than four times during the study effort. These meetings may be in a virtual setting. Consultant will be responsible for organizing the virtual meetings and will identify the venue (i.e. Zoom, MS Teams, gotomeeting, etc.) to be used.

In addition, the consultant will assist RPC in the conduct of meetings (maximum of three) with other stakeholders in the area to discuss the project's purpose and need and project-related development

opportunities and concerns, as appropriate. The RPC will initiate these contacts in consultation with the Parish, and the consultant will prepare summary meeting minutes for review and discussion with the PMC.

Task products will include meeting agendas, handouts, summary minutes, handouts and support graphics.

TASK 2: PROJECT TIMELINE & KICK-OFF MEETING

The consultant will prepare a draft project schedule including major milestones (PMC meetings, site visits, draft reviews, final report submission, etc.). The timeline will be submitted at the project kick-off meeting that will include the consultant, all sub-consultants, RPC, St. Tammany Parish and LADOTD representatives. The kick-off meeting will be organized by RPC and take place within two (2) weeks of the Notice to Proceed.

Task product will include detailed project schedule with timeline and major milestones.

TASK 3: EXISTING CONDITIONS/ SITE INVESTIGATION

Consultant will work with the PMC to develop an inventory of existing roadway and site conditions in the corridors. Consultant will conduct site visits as necessary to gather field information and developing an understanding of the physical, engineering and environmental features of the site and will include site conditions recordation (i.e. pictures, etc). Data to be collected during the site visits will include, but not limited to the following:

- land use adjacent to the corridor and trip generation characteristics of same
- crash data and analysis in the corridor, data to be provided by RPC
- environmental conditions,
- utility types, locations, and ownership relative to the roadways,
- areas of potential environmental or cultural resource concern.

Consultant will prepare documentation of the above information to be used in subsequent tasks and prepare a standalone report that will be used as input for those same. RPC project manager will review this and results from Task 4. Upon approval, consultant will be authorized to begin subsequent tasks.

Task product will be a stand-alone existing conditions report to be used as input for subsequent tasks

TASK 4: TRAFFIC

A. DATA COLLECTION

The consultant will work with the PMC to establish baseline traffic volumes (existing conditions) for the study area. The traffic network will be established by the RPC in consultation with the PMC and based on the region's federal-aid system and pertinent parish roadways.

1. The consultant will collect three day (week days), twenty-four hour, bidirectional automated traffic counts at the following locations:

- a) LA 1077 @ 500 feet north of US 190
- b) LA 1077 between US 190 and Joiner Rd.
- c) LA 1077 between Joiner Rd. and LA 1085
- d) LA 1077 between LA 1085 and I-12
- e) Two additional locations in or adjacent the corridor to be determined by PMC

The consultant will work with DOTD and RPC to secure recent vehicle class and volume data for:

- f) I-12 between LA 1077 and LA 21
 - g) I-12 between LA 445 and LA 1077
2. Based on 24 hour count data collected, peak AM and PM traffic hours will be discerned. Peak period turning movement counts will be required for the following intersections:
- a) US 190 at LA 1077
 - b) LA 1077 at Railroad Ave
 - c) LA 1077 at LA 1085 (Roundabout)
 - d) LA 1077 at I-12 WB Ramp
 - e) LA 1077 At I-12 EB Ramp

Existing Levels of Service for each intersection will be determined using HCM criteria.

Consultant will prepare documentation of the above information to be used in subsequent tasks and prepare a standalone report that will be used as input for those same. RPC project manager will review this and results from Task 3. Upon approval, consultant will be authorized to begin subsequent tasks.

Task product will include the transportation study network populated with existing and newly collected traffic data thereby establishing an existing conditions benchmark for use in the analysis. The consultant will coordinate with RPC's GIS Coordinator to ensure compliance with RPC standards and industry best practices related to GIS products and printed mapping.

B. TRAFFIC ANALYSIS

Using information and data collected in Tasks 3 and 4A, consultant will provide a summary of existing traffic conditions for roadways and intersections mentioned above. Consultant will use the data collected to discern the weekday AM and PM peak periods. Consultant will prepare a memo for RPC review that documents the count locations, data collected, vehicle classifications and the peak AM and PM hour turning movement volumes. RPC will review and direct the consultant to either proceed or revise the memo and resubmit.

Said summary will be provided in tabular and graphic format consistent with LADOTD TEPR methodology.

Task product will be a standalone traffic operations report for existing conditions in the US 190 and LA 1077 corridors. Said report will be included in the appendix of the overall report and include the

transportation study network populated with existing and newly collected traffic data thereby establishing an existing conditions benchmark for use in the analysis.

TASK 5: DESIGN YEAR TRAFFIC AND ANALYSIS

RPC will provide a 2048 Existing + Committed roadway network. This network will be used as the “no-build” network for comparative analysis, and will be run with existing 2048 Traffic Analysis Zone (TAZ) socio-economic inputs to the travel model. RPC will model a maximum of two (2) Build scenarios that reflect the different build scenarios. Consultant will use model outputs and other information gained from earlier analysis as input into a forecast year traffic analysis for a single build scenario.

Task product will be a standalone traffic operations report for forecast conditions in the LA 1077 corridor. Said report will be included in the appendix of the overall report and include the transportation study network populated with existing and newly collected traffic data thereby establishing an existing conditions benchmark for use in the analysis.

TASK 6 – CONCEPTUAL PLANS AND TYPICAL SECTIONS

Using the results of information developed in Task 5, the consultant will prepare near term and long-term conceptual alternatives-for the corridor incorporating operational effectiveness, land use consequences, and economic and environmental feasibility for PMC consideration.

Consultant will prepare conceptual layouts of the proposed improvements on recent aerial photography provided by RPC at a scale of 1” = 200’. Plans will be developed at a planning level scale, and will be used to as input for further advancement of feasible concepts derived from this analysis

Consultant will adhere to the latest LADOTD policies related to access management and complete streets for the corridor. Consultants will review best practices for resilience and water management and identify opportunities for inclusion in the conceptual plans.

Task product will be conceptual plan sheets and proposed typical sections for proposed improvements in both the near term and long term in the LA 1077 corridors.

TASK 7: UTILITY INFORMATION

The consultant will research and work with RPC, St. Tammany Parish, and private utility providers to identify a list of utilities within or crossing the existing right of way. Potential conflicts will be identified and costs/methods for resolving conflicts will be developed. Cost estimates for same will be provided.

Task product will be utility information provided in graphic form and included as part of the deliverable from Task 7. Consultant will document outreach efforts and will include electronic files, maps, or other data from utility providers in the corridor in an appendix to the report, in a format described in Task 12 below.

TASK 8: ENVIRONMENTAL DOCUMENTATION

Consultant will research and report on all known environmental constraints or issues that could potentially impact project feasibility or implementation of the project. Consultant will accomplish LADOTD's Stage 0 Environmental Checklist for a single build alternative. Said checklist will be utilized to document the results of environmental review and will be accomplished completely.

Task product will be summarized environmental information provided in graphic form and included as part of the deliverable from Task 9. Consultant will document outreach efforts and will include electronic files, maps, or other data from consulted agencies and databases in the corridor in an appendix to the report, in a format described in Task 12 below.

TASK 9: OPINION OF PROBABLE COST

The consultant will provide the PMC with a prioritized list of both short and long-term transportation and related capital improvements for each alternative development scenario, describing the forecast transportation deficiency, type of proposed improvement(s), and opinion of probable cost. Consultant will also prepare an order of magnitude cost estimate for the resilience assessment recommendations.

A prioritized list of short and long-term transportation improvements with an opinion of probable costs for each development concept for further study and consideration.

TASK 10: DRAFT REVIEW

A draft of the report (five copies) with supporting documentation will be submitted to RPC for distribution to the PMC for review by, at the latest, 80% of project completion. Pending approval of the draft, RPC may, at its discretion, require the consultant to deliver hard copies to PMC members for their review.

The draft report will include, but not limited to a draft purpose and need for the projects, existing traffic conditions, forecasted traffic conditions, proposed highway improvements, including near term recommendations as well as longer term traffic management solutions, conceptual right of way needs, utility relocations, and environmental concerns.

Deliverable: Development and circulation of draft report for PMC review and comment.

TASK 11: FINAL DELIVERABLES

Following review and approval of the draft submission, the consultant will provide RPC with ten (10) bound copies of the Final Land Use and Transportation Scenario Planning Study, documenting the information and analysis described above. Ten printed copies of the report and 10 disks in electronic format (pdf including all maps and visualizations) will be submitted by the consultant to the RPC for distribution.

Final report deliverable including ten bound and electronic copies of the study and all supporting data, maps, and other documentation.

STUDY TIMELINE: Ten Months

BUDGET: \$75,000