



ENGINEERING SERVICES

To: Mayor and Town Council

From: Hulon T. Webb, Jr., P.E., Director of Engineering Services

**Through: Mario Canizares, Town Manager
Chuck Ewings, Assistant Town Manager**

**Re: Professional Engineering Services Agreement – Lee Engineering
Traffic Signal Warrant (Gee/Acacia) and Design of HAWK Signals**

Town Council Meeting – October 24, 2023

Strategic Visioning Priority: 1. Acceleration of Infrastructure

Agenda Item:

Consider and act upon authorizing the Town Manager to execute a Professional Engineering Services Agreement between Lee Engineering, LLC, and the Town of Prosper, Texas, related to the traffic signal warrant study on Gee Road at Acacia Parkway and the design of pedestrian hybrid beacons.

Description of Agenda Item:

The services associated with this agreement are for the traffic signal warrant study on Gee Road at Acacia Parkway and the design of a traffic signal at that intersection if warranted. If the traffic signal warrant study does not recommend a traffic signal at the Gee Road/Acacia Parkway intersection, a pedestrian hybrid beacon, or HAWK signal, will be designed to replace the current rectangular pedestrian flashing signs at that intersection.

The services also include design of two (2) additional pedestrian hybrid beacons recommended at the following hike and bike trail crossings:

- Gee Road south of Lockwood Drive
- First Street at Copper Canyon Drive

In addition, the school zone crossing on First Street at Chaucer Drive, that serves both Rushing Middle School and Stuber Elementary School, will be evaluated. If the evaluation recommends a pedestrian hybrid beacon, this agreement allows for the completion of that design.

Lee Engineering, LLC, is included on the October 24, 2023, approved list of qualified engineering firms, for traffic engineering services. They were also on the prior list approved at the April 9, 2019, Town Council meeting, and have successfully completed several traffic signal warrants and the design of multiple traffic improvement projects for the Town.

Budget Impact:

The cost for the traffic signal warrant study on Gee Road at Acacia Parkway is \$5,300, and the design for a traffic signal and three pedestrian hybrid beacons or no traffic signal and four pedestrian hybrid beacons is \$123,000, for a total of \$128,300. The funding for this project will come from the \$400,000 Crosswalk Signage, Markings and Flashers budget in Account No. 750-5410-10-00-2333-TR.

Legal Obligations and Review:

Terrence Welch of Brown & Hofmeister, L.L.P., has approved the attached documents as to form and legality.

Attached Documents:

1. Professional Engineering Services Agreement
2. Location Map

Town Staff Recommendation:

Town staff recommends that the Town Council authorize the Town Manager to execute a Professional Engineering Services Agreement between Lee Engineering, LLC, and the Town of Prosper, Texas, related to the traffic signal warrant study on Gee Road at Acacia Parkway and the design of pedestrian hybrid beacons.

Proposed Motion:

I move to authorize the Town Manager to execute a Professional Engineering Services Agreement between Lee Engineering, LLC, and the Town of Prosper, Texas, related to the traffic signal warrant study on Gee Road at Acacia Parkway and the design of pedestrian hybrid beacons.