



## ENGINEERING SERVICES

**To:** Mayor and Town Council

**From:** Robert Gey, P.E., Senior Traffic Engineer

**Through:** Mario Canizares, Town Manager  
Chuck Ewing, Assistant Town Manager  
Hulon T. Webb, Jr., P.E., Director of Engineering Services

**Re:** Installation of Temporary and Permanent Traffic Signal  
Legacy Drive & First Street

**Town Council Meeting – June 24, 2025**

**Strategic Visioning Priority: 1. Acceleration of Infrastructure**

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**Agenda Item:**

Consider and act upon authorizing the Town Manager to enter into an agreement with Mels Electric LLC, related to the construction of a temporary and a permanent traffic signal at the intersection of First Street and Legacy Drive for \$691,566.

**Description of Agenda Item:**

On April 22, 2025, the Town Council approved the purchase of traffic signal items for the intersection of First Street and Legacy Drive. These items include the permanent signal poles, mast arms, and related traffic signal equipment that have long lead times. The current estimated time for completion of pole manufacturing, powder coating, and equipment delivery is January 2026.

The improvements to First Street from Stuber Elementary to the Dallas North Tollway, including the expansion of Legacy Drive north of First Street are scheduled to have all lanes ready to open to traffic before the first day of school in August 2025. When completed, the intersection of First Street and Legacy Drive will have three (3) southbound lanes, two (2) northbound lanes, two (2) eastbound lanes, and two (2) westbound lanes. There will also be dual left-turn lanes and a single right-turn lane on each approach. In addition, the Legacy Drive (Prairie – First) project will be opened to traffic which allows connectivity to US 380.

With the expected opening of the intersection a few months ahead of the Town receiving delivery of the permanent signal poles, mast arms, and related traffic signal equipment for the intersection, several options were evaluated to address the anticipated traffic demands at the intersection. The options evaluated included the installation of a four-way stop, and the installation of a temporary traffic signal. Due to the complexity of the intersection when completed, as well as the expected delays which would occur with a four-way stop, installation of a temporary traffic signal was determined to be the preferred alternative. This option provides improved efficiency and safety for traffic along First Street and the intersection of Legacy Drive. The Town will also be able to reuse the temporary traffic signal poles and related traffic signal equipment at other locations around Town when similar delays with receiving permanent traffic signal installation is anticipated.

For installation, the Engineering Department contacted the City of Garland to utilize their existing contract for “Traffic Signal Installations / Modernizations” from Mels Electric LLC. The Town can

utilize the City of Garland's contract with Mels Electric LLC, under and existing Interlocal Agreement with the Collin County Governmental Purchase forum. Given the short deadline to implement the temporary traffic signal option, the use of the Interlocal Agreement provides the best chance for the Town to have the temporary traffic signal installed before the first day of school on August 12, 2025. The Town has previously used Mels Electric LLC, on several Town projects with satisfactory results and while they have communicated that a more reasonable date for completion is August 22, 2025, they fully understand the importance of completing by August 12, 2025, and are committed to doing whatever they can to meet that timeline.

For the installation of the temporary and permanent traffic signals, Mels Electric LLC, proposed a scope of work that involves drilling the traffic signal pole foundations, installation of conduit, electrical conductors, traffic signal cables, signal heads, pedestrian crossing poles, traffic controller and cabinet, battery backup unit, ground boxes and related items. To save construction cost, the temporary traffic signal design utilizes the permanent traffic signal equipment that the Town has received. This includes using the permanent traffic signal controller and cabinet, as well as the permanent pedestrian crossing poles and heads. The installation of these items will also reduce the time necessary to complete construction of the permanent traffic signal when the permanent poles and mast arms are delivered. Upon delivery of the permanent equipment, Mels Electric LLC, will need approximately four (4) to six (6) weeks to complete the installation of the permanent traffic signal. Based on current timing of the permanent signal equipment being delivered, the completion of the installation of the permanent traffic signal is anticipated in March 2026.

**Budget Impact:**

The cost for the construction of the temporary and permanent traffic signals is \$691,565.50. The design and construction budget is \$578,333, in Account No. TR202404-CONST-CONST, and there is \$283,330 remaining in the budget after the design costs and purchase of the traffic signal related items approved on April 22, 2025. The remaining budget of \$283,330, and unallocated budgeted funds from the First Street (Stuber Elementary – DNT) project in the amount of \$417,100 from Account No. ST202012-CONST-CONST will provide the additional funding needed for the construction. The contingency amount of \$8,864.50 will be used during the construction phase to address field changes or adjust quantities during construction. It is anticipated that approximately \$50,000 of the estimated \$152,125 cost for the temporary traffic signal installation, will be able to be reused once the permanent traffic signal is installed (wood poles, span wires, brackets, signal heads).

**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. Proposal from Mels Electric LLC
2. Location Map

**Town Staff Recommendation:**

Town staff recommend that the Town Council authorize the Town Manager to execute an agreement with Mels Electric LLC, related to the construction of a temporary and a permanent traffic signal at the intersection of First Street and Legacy Drive for \$691,566.

**Proposed Motion:**

I move to authorize the Town Manager to execute an agreement with Mels Electric LLC, related to the construction of a temporary and a permanent traffic signal at the intersection of First Street and Legacy Drive for \$691,566.