



MEMORANDUM

To: Mayor and City Council

From: Kent Collins, P.E., Director of Public Works
Kumar Gali, P.E., Assistant Director of Public Works - Engineering

Date: August 25, 2020

Reference: Design Contract Services Amendment #1 for Belt Line Road Reconstruction Project

General Information:

- Original design contract services approved by council to Halff Associates, Inc in 2017 for \$1.226 million
- Original scope included full pavement replacement, utility replacement and rehabilitation, landscaping, sidewalk construction, signal work, and significant traffic control and temporary paving to maintain mobility during construction.
- Currently the project is at 70% design
- Due to current lower traffic volumes, value engineering savings and changes to construction schedule lead to additional design services needed for completion of the design
- To incorporate the additional design services Halff Associates is requesting a contract amendment in the amount of \$95,000

Introduction:

This agenda item is being presented to consider approval of contract amendment #1 with Halff Associates, Inc. for additional design services related to the reconstruction of Belt Line Road project in the amount of \$95,000; and authorizing the City Manager to sign and execute any necessary documents.

Analysis:

Belt Line road between Southwestern and IH-635 was originally constructed in 1985 and has outlasted the original design life. The roadway has been maintained over the years to extend the life, and one additional overlay project was implemented in partnership with Dallas County to span the time to the start of the reconstruction project. Design of the project is currently in process with Halff Associates and the construction plans are currently at 70% completion.

The original scope of the Belt Line reconstruction project included the following elements:

- Replacement of all existing pavement with an updated pavement section, Continuously Reinforced Pavement Section (CRCP)
- Intersection enhancements to improve mobility and safety
- Sidewalks, streetlights and landscaping
- Replacement of the water and wastewater infrastructure to renew the lines to match the expected life of the new pavement
- Strategic replacement/rehabilitation of the existing storm sewer system
- Signal work as needed to accommodate intersection changes and/or traffic control
- Provide a minimum of 5-lanes to accommodate the traffic volume during all phases of the project

Major revisions to the original scope of services:

Traffic Control Plan - When design work commenced on Belt Line, the traffic volume on South Belt Line ranged between 40,000 and 50,000 vehicles per day. As a result, the design included removing the center median and using that space to add two temporary lanes to handle traffic during construction. Currently, those traffic volumes are around 25,000 vehicles per day. The original scope included traffic control plan for providing 5-lanes to accommodate the higher volume. With the current lower traffic volume the revised scope will provide traffic control plan for 3-lanes of traffic for all phases of the project.

Paving Section - The original scope included a Continuously Reinforced Concrete Paving section that was designed to attract contractors that typically bid on TxDOT projects and is similar to the section that was originally designed for Freeport Parkway. A value engineering effort has led to a change in pavement design that eliminated significant effort and paving quantities (primarily the 4" of asphalt base). The revised scope will include City's standard pavement section, with thicknesses, design strength, subgrade modification, and steel spacing as designed by the geotechnical engineer.

Exhibit A lists the additional services and fee included in the Contract Amendment #1.

Legal Review:

The original contract was reviewed by the City Attorney.

Fiscal Impact:

The fiscal impact of this Agenda item is \$95,000.00 as provided for in bond proceeds.

Recommendation:

The Public Works Department recommends approval of this item.