



MEMORANDUM

To: Mayor and City Council

From: Kent Collins, P.E., Director of Public Works

Date: November 13, 2018

Reference: Freeport Parkway Reconstruction CO#1

2030: Sustainable City Government, Goal 3
Excellent and Well-maintained City Infrastructure and Facilities

General Information:

- Freeport Parkway reconstruction scope includes full pavement replacement, bridge reconstruction, utility replacement/rehabilitation, landscaping enhancement, geometry improvements, trail construction, lighting, and a new traffic signal.
- Texas Sterling Construction Company's original contract price was \$15,819,808.64
- Construction began Summer 2018 with an estimated completion time of 18 months
- Change Order #1 adds: a) 12,516 LF of 12" Edge Drain to mitigate excess irrigation water from running under the paving surface and deteriorating the new street; b) replacement of two failed inlet throats on Southwestern; and c) replacement of the water line tie in on Southwestern and the addition of contract 28 days to cover the additional scope.
- The new Contract Amount with Change Order #1 will be \$15,976,042.90.

Introduction:

This agenda item is being presented to consider approval of Change Order #1 with Texas Sterling Construction Company, in an amount of \$156,234.26. The scope of the change order is to install edge drain along both curbs, replace two inlet throats, and a change in water line pipe connection from what was originally designed, due to a condition change.

Analysis:

The Freeport Parkway Reconstruction Project limits begin at Dividend/IH-635 and end at Bethel Road. This segment of Freeport Parkway was originally constructed in two phases in 1981 (Bethel to Airline) and 1986 (Airline to IH-635). This contract modification is necessary via change order, as it was discovered during the demolition of the existing roadway that there was excessive

moisture content in the soil beneath the existing roadway that was leading to subgrade failure and translating through the concrete as street failures. Based on the topography and existing development, it is believed that much of this water is due to irrigation of the properties along Freeport. To mitigate this problem on the new roadway, it was recommended by the Engineer to install a 12" Edge Drain along both the North and Southbound outside edges of the road for the full length of the construction zone. This should allow water to drain properly without running under the road and damaging the subgrade, which would in-turn quickly deteriorate the new road. The cost for this change is \$123,508.96.

The second item included in this change order involves replacing two inlet throats. During the pavement demolition on Southwestern to install the water line beneath the street, it was noted that these two inlet throats had failed and needed to be replaced to allow storm water to flow to the inlets properly. The value of this change is \$3,210.96.

Last, as-built drawings on Southwestern showed an incorrect tie in configuration at Water Line "O". In order to make this connection, the existing incorrect pipe connection of a 24" 90-degree "L" needs to be removed and replaced with a 24" Flange Tee at the tie in point. The value of this change is \$29,514.34. The total value of the proposed change order is \$156,234.26 and will add an additional 28 days to the contract time. Project completion is currently expected in Spring of 2020.

Legal Review:

Standard City bidding documents were utilized for this project and have been reviewed by the City Attorney.

Fiscal Impact:

The fiscal impact of this agenda item is \$156,234.26 as provided for in CIP and IMF.

Recommendation:

The Engineering Department recommends approval of Change Order #1 with Texas Sterling Construction Company.