



## MEMORANDUM

**To:** Mayor and City Council

**From:** Ken Griffin, P.E., Director of Engineering and Public Works

**Date:** January 9, 2018

**Reference:** **Materials Testing Contract for Freeport Parkway (IH-635/Dividend to Bethel Road) Reconstruction**

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

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### General Information:

- Freeport Parkway between Bethel Road and IH-635 was originally constructed in two phases in 1981 & 1986
- Scope of construction includes full pavement replacement, bridge reconstruction, utility replacement and rehabilitation, landscaping enhancement, geometry improvements, trail construction, and a new traffic signal.
- Proposed construction cost is \$16.52 million
- Planned start of construction Spring 2018
- Estimated completion Late 2019
- Materials testing services are required to ensure compliance with specifications

### Introduction:

This agenda item is to consider approval of a contract with Kleinfelder, Inc. to provide materials engineering and testing services on the Freeport Parkway (IH-635/Dividend to Bethel Road) Reconstruction project ("Freeport Project"), with a contract value of \$236,705.00.

### Analysis:

The Freeport Project limits begin at IH-635/Dividend and end at Bethel Road (see attached). This segment of Freeport Parkway was originally constructed in two phases in 1981 (Bethel to Airline) and 1986 (Airline to IH-635). The roadway has been maintained over the years to extend the life beyond the typical design life of 20 years. A companion item is on this agenda to award the construction contract. This contract is an hourly fee-based contract and is therefore based upon the expected effort involved in materials testing during construction. The estimated fee associated with

this contract is \$236,705.00. Any increase to the contract value or scope will require a contract amendment.

The basic scope of the Freeport Project includes the following elements:

- Replacement of all existing pavement with an updated pavement section targeted at prolonging the life of the infrastructure
- Replacement of the existing bridge over Grapevine Creek (between Airline and Fritz) to straighten the existing horizontal curve
- Geometric enhancements to improve mobility and safety
- New trail, sidewalk and landscaping
- Replacement of the water and wastewater infrastructure to improve capacity and renew the lines to match the expected life of the new pavement
- Rehabilitation of the existing storm sewer system beneath the pavement based upon recent TV inspection and additional investigation to occur during construction
- New traffic signal at Freeport Pkwy. and Southwestern Blvd.

Kleinfelder was one of the firms that was placed on the city's approved consultant list following a request for statement of qualifications (SOQ) process completed earlier this year. The Kleinfelder team is familiar with the elements of this project as well as best practices to ensure proper testing of the materials utilized and placed during construction. The cost of the materials testing equates to 1.5% of the estimated construction cost.

**Legal Review:**

This is a standard contract form utilized on previous agreement with Kleinfelder. A Master Services Agreement is in place with Kleinfelder.

**Fiscal Impact:**

The fiscal impact of this contract approval is \$236,705.00 as provided in Capital Improvement Plan funds.

**Recommendation:**

The Engineering Department recommends approval of this contract with Kleinfelder, Inc.