



## REPORT TO CITY COUNCIL

**To:** Honorable Mayor and Members of the City Council

**From:** Jason Simpson, City Manager

**Prepared by:** Shannon Buckley, Assistant City Manager

**Date:** August 27, 2024

**Subject:** Approve and authorize the City Manager to Execute a Professional Services Agreement with Inland Foundation Engineering, Inc. for Geotechnical Services for the City Hall Project (Project #Z20006)

### **Recommendation**

Approve and authorize the City Manager to execute an agreement with Inland Foundation Engineering, Inc. in an amount not to exceed \$50,000.00 for Geotechnical Services for the City Hall Project in such final form as approved by the City Attorney and authorize the City Manager to execute change orders not exceeding a 10% contingency of \$5,000.00.

### **Background**

Staff have engaged the services of Inland Foundation Engineering, Inc. to provide geotechnical engineering services with valued engineering concepts. These services are needed to create an engineered building site and satisfy ongoing structural inspections of concrete, steel, and framing on all three projects. Inland Foundation Engineering, Inc. and the City's architect, structural engineer and project manager, will work together to establish a building site and complete structural certified building for the project.

### **Discussion**

These services are standard geotechnical engineering services for construction projects and will include the needed geotechnical engineering construction documentation to affect structural certification. These tasks are included in the following:

**Geotechnical Observation, Testing, and Sampling**

- Geotechnical evaluation of building area excavation bottoms
- Compaction testing during fill placement
- Compaction testing of footing excavations and floor slab subgrade

**Concrete Inspection, Sampling, and Testing**

- Mix design review and verification
- Concrete sampling and testing for slump, temperature, and air content during construction of foundations, floor slabs, and other structural concrete
- Batch plant inspection

**Reinforced Masonry Inspection and Testing**

- Verification of reinforcement placement
- Inspection of anchor and other embed placement
- Sampling and fabrication of concrete masonry units (CMU), grout, mortar

**Structural Steel and Welding Inspection**

- Verify WPS, welder qualifications and equipment
- Verify heat numbers and mill certification information for all materials welding inspection during shop fabrication of structural steel components
- Site welding inspection
- High-strength bolt sampling, testing, and material verification

**Laboratory Testing**

- Reinforcing steel – bend and tensile strength
- High-strength bolts and nuts – hardness and tensile strength
- Concrete – compressive strength
- Masonry core shear strength
- Soil and aggregate base – optimum moisture content, maximum density

During the professional services review phase, the deliberate outcome was to ensure a complete understanding of the required and needed services, identification of assumptions, understanding and experience with corporate facility amenities, and geotechnical engineering costs. The Inland Foundation Engineering, Inc. proposal has detailed all the required services needed through the course of construction for this project.

**Fiscal Impact**

The project is included in the Fiscal Year 2024/25 – 2028/29 Capital Improvement Plan (CIP) budget.

**Attachments**

- Attachment 1 – Agreement
- Attachment 2 - Proposal