

## Department of Public Works – Engineering Division

### MEMO

**TO:** Utilities Committee

**FROM:** Paula Vandehey, Director of Public Works  
Pete Neuberger, Project Engineer

**DATE:** October 6, 2021

**RE:** Request to Approve Change Order #1 for 2020G Stormwater Consulting Services Contract for Lightning Drive Culverts and Stormwater Practices 60% Preliminary Design with raSmith in an amount not to exceed \$20,000.

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The Department of Public Works is requesting approval of Change Order #1 for the 2020G Stormwater Consulting Services Contract for Lightning Drive Culverts and Stormwater Practices 60% Preliminary Design with raSmith in an amount not to exceed \$20,000. If approved the new not-to-exceed contract amount will be \$127,250.

#### **CURRENT CONTRACT SCOPE**

The current contract includes the following work:

- Perform detailed modeling of alternatives for stormwater conveyance, flood control and water quality for the streets and culverts to meet City, State, and Federal requirements
- Work iteratively with City designs of the utilities and streets.
- Perform detailed analysis of options for stormwater practices to meet requirements for both street construction and tributary private development areas.
- Develop a Stormwater Management Plan documenting proposed practices to meet City, State, and Federal Stormwater Management requirements.
- Perform 60% design of two Lightning Drive culverts and five stormwater ponds and develop preliminary engineering drawings of these components.
- Prepare permit applications to State and Federal Regulators.

#### **REASON FOR REQUEST**

DPW staff and raSmith anticipate the cost to complete work on the 60% design will be up to \$20,000 more than the contracted amount. There are two main factors for higher-than-expected costs, which DPW staff believe are justified:

- raSmith discovered an error by others in the FEMA floodplain model that results in the corrected effective floodplain at the crossing location being much wider than the approved model shows. This error has required raSmith to develop additional alternatives for the stream crossing (box culvert and clear span bridge) to avoid and/or minimize increases in the post-project floodplain elevations to meet State and Federal regulations.
- During design development, DPW staff and raSmith identified an opportunity to combine the proposed City Lightning Drive Stormwater Pond L4 with an adjacent stormwater pond planned by the Apple Ridge 2 development into one pond. City staff and raSmith identified estimated savings in the capital and maintenance costs for both parties by combining these ponds. Coordination efforts required to achieve a combined pond exceed the then-anticipated level of effort. With the proposed change, DPW staff anticipate significant overall up-front and on-going cost savings for the City.

### **CONTRACT FUNDING**

If Change Order #1 is approved, \$248,269 will remain in the 2021 Stormwater Consulting Budget.