



PUBLIC WORKS DEPARTMENT

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CITY COUNCIL STAFF REPORT

Meeting: June 7, 2022

Subject

Consider award of a construction contract for the Homestead Road-North De Anza Boulevard Traffic Signal Modification Project (Project No. 2022-16) for the construction of new traffic signal poles and mast arms at the northeast and southwest corners of the intersection, including removal of median-mounted poles.

Recommended Action

1. Award a construction contract for the Homestead Road-North De Anza Boulevard Traffic Signal Modification Project and authorize the City Manager to execute the contract in the amount of \$287,625 with Tennyson Electric, Inc.; and
2. Authorize the Director of Public Works to execute any necessary change orders up to a construction contingency amount of \$28,763 (10 %) for a total authorized contract amount of \$316,388; and
3. Adopt Resolution No. 22-070 approving budget modification #2122-201 increasing appropriations in the Capital Improvement Program Capital Projects Fund (420-99-036) by \$25,238 for contingency and \$71,420 for construction management and inspection services, for a total of \$96,658 for the Homestead Road-North De Anza Boulevard Traffic Signal Modification Project.

Background

The intersection of Homestead Road and North De Anza Boulevard is a major intersection which has historically handled more traffic than any other intersection in the City of Cupertino (City). Traffic signal poles for both the northbound and southbound directions are currently mounted in the median and at the corners of the intersection.

Historically this intersection has had a higher number of traffic collisions than similar intersections. According to collision analysis performed in preparation for the City's Local Roadway Safety Plan, this intersection has the highest accident rate in the City. The analysis showed that the most common occurring collisions at the intersection are rear end and broadside collisions. The proposed modifications will include installing new traffic signal infrastructures for improved visibility.

Due to the high collision rate, the City applied for and was granted Federal aid to assist with intersection improvements, as part of the Highway Safety Improvement Project (HSIP.) The HSIP is a core Federal-aid program with the purpose to achieve a significant reduction in traffic collisions and serious injuries on all public roads, including non-State-owned roads. On November 30, 2021, the City received an Authorization to Proceed with construction based on the project design. The City is receiving a total of \$213,300 from the grant.

Discussion

The Homestead Road-North De Anza Boulevard Traffic Signal Modification Project will remove the northbound and southbound median-mounted traffic signal poles and replace them with new poles and longer mast arms, which will be located at the northeast and southwest corners of the intersection. The proposed modifications will provide better visibility of the traffic signals, allowing for improved driver reaction time.

On April 18, the City received three bids for the project. The low bid was from Tennyson Electric, Inc., which was approximately 17% below the Engineer's Estimate.

| Bidder | Total Bid Amount |
|---------------------------------|-------------------------|
| Tennyson Electric, Inc. | \$287,625 |
| Gruendl Inc. DBA Ray's Electric | \$316,345 |
| Columbia Electric, Inc. | \$340,000 |
| <i>Engineer's Estimate</i> | \$347,424 |

The bid submission from Tennyson Electric, Inc. was thoroughly reviewed for completeness and the contractor's experience and qualifications are confirmed. It was determined that this bid is the lowest received, that the bid is responsive, and that the contractor is a responsible entity.

The Project is scheduled to begin construction in June/July 2022.

Sustainability Impact

There is no sustainability impact.

Fiscal Impact

The Fiscal Year 2021-2022 Capital Improvements Program (CIP) budget for the Homestead Road-North De Anza Boulevard Traffic Signal Modification Project (budget unit 420-99-036) is \$428,300, which includes \$213,300 of grant funding. The budget is not adequate to implement the project due to overall increases in the cost of goods and services since the grant application was received. An additional appropriation of funds is requested in the amount of \$96,658. If all recommended budget adjustments are approved, the total Project budget will be \$524,958.

Prepared by: Ryan Do, Public Works Project Manager

Reviewed by: Matt Morley, Director of Public Works Department

Reviewed by: Dianne Thompson, Assistant City Manager

Approved for Submission by: Jim Throop, City Manager

Attachment:

A – Draft Contract

B – Draft Resolution