CITY OF SANTA BARBARA

COUNCIL AGENDA REPORT

AGENDA DATE: March 26, 2019

TO: Mayor and Councilmembers

FROM: Engineering Division, Public Works Department

SUBJECT: Increase In Design Extra Services For Braemar Lift Station Rehabilitation Project

RECOMMENDATION:

That Council authorize an increase in the extra services amount with Carollo Engineers, for design services for the Braemar Lift Station Rehabilitation Project, Contract No. 25,866, in the amount of $60,948, for a total project expenditure authority of $524,184.

DISCUSSION:

Background

Most of the City's wastewater collection system relies upon gravity flow. However, there are seven places in the City where wastewater must be pumped up hill, in pressurized pipes called force mains, to an elevation from which it can flow by gravity again. The Braemar Lift Station (Braemar) was constructed in 1962, and is the City's largest and most critical lift station with a pumping capacity of 1,000 gallons per minute. It is located at the corner of Alan Road and Cliff Drive, and is adjacent to Arroyo Burro Creek. Braemar pumps wastewater from the sewer collection system that serves parts of the Hope Ranch, Campanil, Arroyo Burro Beach, and Alan Road neighborhoods to one of two 3,200 linear foot force mains along Cliff Drive.

The Braemar Lift Station Rehabilitation Project (Project) is intended to replace aging equipment, and address long standing issues with odor control and operational and maintenance challenges. The work generally includes replacement of the existing pumps and motors with new units including Variable Frequency Drives (VFD). The VFDs match pumping rates to flows, rather than cycling on and off, and are expected to provide a better long-term solution to odor control and maintenance issues in the wet well, as well as increased energy efficiency. Other work items include the ventilation system, wet well, motor control center, and supervisory control and data acquisition system.

Current Status

After review of the 90 percent design by the City's Building and Safety Department, it was determined that Braemar sits within a Special Flood Hazard Area. As a result, the construction of this project must comply with design flood elevations mandated by the National Flood Insurance Program and Santa Barbara Municipal Code. To comply with these regulations, it is anticipated that the site will be modified to include a perimeter wall designed to protect critical pumping infrastructure during a large flood event. The additional time and effort to design these flood protections were not included in the current contract with Carollo Engineers. This increase in extra services will allow for this additional design work.

BUDGET/FINANCIAL INFORMATION:

Funding

The following summarizes the expenditures recommended in this report:

DESIGN SERVICES CONTRACT FUNDING SUMMARY

	Base Contract	Change Order	Total
Initial Contract Amount	$421,124	$42,112	**$463,236**
Proposed Increase	$	$60,948	**$60,948**
Total	**$421,124**	**$103,060**	**$524,184**

The following summarizes all Project design costs, construction contract funding, and other Project costs.

ESTIMATED TOTAL PROJECT COST

Cents have been rounded to the nearest dollar in this table.

Design (by Contract)	$524,184
Design Management (by City Staff)	$48,180
Design Subtotal	**$572,364**
Construction (projected) Subtotal	**$3,972,000**
Project Total	**$4,544,364**

If the recommendation is approved, the total design services contract expenditure authority will be increased to $524,184.

There are sufficient appropriated funds in the Wastewater Capital Fund to cover this cost.

PREPARED BY: Brian D'Amour, City Engineer/ZS/kts

SUBMITTED BY: Rebecca J. Bjork, Public Works Director

APPROVED BY: City Administrator's Office