

Engineer's Estimate Checklist for **Optimal Confidence**

Project Name/Number: Sullivan PS Safety Improvements E11356 Engineer: Eric Thomas
Level of Effort to prepare this estimate: High
Items included in this estimate: Construction contract
Items excluded in this estimate: Construction management costs

Project Scope

	<u>Yes</u>	<u>No</u>	<u>Not Applicable</u>
Is the project scope clearly understood and well defined?	☒	☐	☐
Are pay items identified according to project Specifications?	☒	☐	☐
Are materials and quantities accurate for execution of the job?	☒	☐	☐
Is the extent of street resurfacing understood and accounted for?	☐	☐	☒
Is utility coordination and/or relocation, and potential project delay, understood and accounted for in this estimate?	☐	☐	☒
Are environmental and soil conditions understood, and are the extent and methods of any required disposal accounted for in this estimate?	☐	☐	☒
Has Traffic Control been estimated according to project-specific conditions?	☐	☐	☒
Are project-specific mobilization costs understood and accounted for in this estimate?	☒	☐	☐
Have known extra work items, or force account items, been accounted for?	☐	☐	☒
Comments:			

Project Schedule

	<u>Yes</u>	<u>No</u>	<u>Not Applicable</u>
Have availability and delivery time of important materials and equipment been checked?	☒	☐	☐
Has the contract time been determined with/by the Construction Manager?	☒	☐	☐
Have contract time cost impacts been accounted for in this estimate?	☒	☐	☐
Have construction season cost impacts been accounted for in this estimate?	☒	☐	☐
Are schedule constraints and/or schedule acceleration requirements understood, well defined, and accounted for in this estimate?	☒	☐	☐
Have unusual work time requirements (i.e. 24-hr work or limited street closure times) been accounted for in this estimate?	☐	☐	☒
Comments:			

Quality Assurance

	<u>Yes</u>	<u>No</u>	<u>Not Applicable</u>
Are quantity take-off calculations and back-up information documented?	☒	☐	☐
Are unit prices verified with vendors and sources documented?	☒	☐	☐
Are historical unit costs adjusted (to midpoint of construction) from projects of similar scale, similar site and similar construction conditions?	☐	☐	☒
Have non-standard items been estimated "bottom up"?	☐	☐	☒
Is a contingency in this estimate? If so, describe: <u>10%</u>	☒	☐	☐
Are "plug" estimates used? If so, describe: _____	☐	☐	☒
Was this estimate checked? (quantities and costs)	☒	☐	☐
Comments:			

Bidding Environment

	<u>Yes</u>	<u>No</u>	<u>Not Applicable</u>
Is this project directed to the sheltered market and is this accounted for in this estimate?	☐	☒	☐
Has the time/season of advertising been factored into this estimate?	☒	☐	☐
Are circumstances known that would limit the bidding pool and is this accounted for?	☐	☒	☐
Comments:			

Implementation Procedures for Capital Projects

	<u>Yes</u>	<u>No</u>	<u>Not Applicable</u>
Does the project construction estimate agree with the current budget?	☒	☐	☐
If "No", has a Trend Alert been prepared?	☐	☐	☒
Comments:			

IMPACT STATEMENT

Legislation title: Authorize a competitive solicitation and contract with the lowest responsible bidder and provide payment for construction of the Sullivan Pump Station Safety Improvements Project No. E11356 for an estimated cost of \$1,040,000 (Ordinance)

Contact name: Eric Thomas

Contact phone: 503-823-2086

Presenter name: Bhargavi Ambadkar

Purpose of proposed legislation and background information:

BES pump station maintenance group (PUMA) has raised safety concerns while performing routine maintenance on pumps, valves, mechanical equipment, and lighting at the Sullivan Pump Station. The existing platforms in the motor and pump rooms are configured in a way that prevent safe access to items that require routine maintenance. In addition, an unsafe portable ladder position is needed to access a mechanical unit, and the platform in that area doesn't have any guardrail. Finally, there are three light fixtures that are unsafe to access. In the past, time-loss injuries have occurred while performing pump maintenance. BES takes safety very seriously and wants to take measures to prevent or significantly reduce the chance future injuries from occurring. The proposed project would construct new platforms, enlarge an existing platform, build a permanent and safe ladder, install guardrail, and relocate light fixtures in a manner that would improve safety while accessing the pumps, valves, mechanical units, and light fixtures that require routine maintenance.

Financial and budgetary impacts:

The proposed budget is a project estimate with an optimal level of confidence. This project is part of the BES Pump Station Improvement Program which is funded through FY 2024.

This project will neither generate nor reduce current or future revenue. No new City position will be created.

Community impacts and community involvement:

Since the work for this project is located entirely within an existing pump station, this project has no negative impact on the community. There is positive impact to the overall community in the sense that injuries will be prevented, and those uninjured maintenance workers will be able to address other sewer system needs.

100% Renewable Goal:

This project has negligible impact on the City's total energy use as a result of replacing three old fluorescent light fixtures with new energy efficient light fixtures.

This project has no impact on the City's renewable energy use.

Budgetary Impact Worksheet

Does this action change appropriations?

☐ **YES:** Please complete the information below.

☒ **NO:** Skip this section

Fund	Fund Center	Commitment Item	Functional Area	Funded Program	Grant	Sponsored Program	Amount