

Engineer's Estimate Checklist for Optimal Confidence

Project Name/Number: PIR Pump Station Design Engineer: N/A
 Level of Effort to prepare this estimate: _____
 Items included in this estimate: _____
 Items excluded in this estimate: _____

<u>Project Scope</u>	<u>Yes</u>	<u>No</u>	<u>Not Applicable</u>
Is the project scope clearly understood and well defined?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are pay items identified according to project Specifications?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Are materials and quantities accurate for execution of the job?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Is the extent of street resurfacing understood and accounted for?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Is utility coordination and/or relocation, and potential project delay, understood and accounted for in this estimate?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Are environmental and soil conditions understood, and are the extent and methods of any required disposal accounted for in this estimate?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Has Traffic Control been estimated according to project-specific conditions?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Are project-specific mobilization costs understood and accounted for in this estimate?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Have known extra work items, or force account items, been accounted for?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments: <u>This ordinance is for a pump station design project. A partner agency, Multnomah County Drainage District, completed the estimate for PTE services for design and permitting. This ordinance is not for a construction of a BES asset. This asset is owned by a drainage district.</u>			

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

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

<u>Bidding Environment</u>	<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?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Has the time/season of advertising been factored into this estimate?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Are circumstances known that would limit the bidding pool and is this accounted for?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments: _____			

<u>Implementation Procedures for Capital Projects</u>	<u>Yes</u>	<u>No</u>	<u>Not Applicable</u>
Does the project construction estimate agree with the current budget?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
If "No", has a Trend Alert been prepared?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments: _____			

IMPACT STATEMENT

Legislation title: Authorize application and accept award funds from Federal Emergency Management Agency (FEMA) in the amount of \$1,665,000.00 for the Portland International Raceway (PIR) Pump Station Upgrade Design Project (Ordinance)

Contact name: James Allision, BES

Contact phone: 503-522-4302

Presenter name: Joe Dvorak P.E., BES

Purpose of proposed legislation and background information:

Application for and acceptance of this grant from FEMA generates investment in flood protection facilities that directly benefit city property and infrastructure. The PIR Pump Station provides drainage of low-lying areas including city streets, Tri-Met MAX infrastructure, Portland International Raceway (PIR) and other public and private land in the Peninsula Drainage District #1 (PEN1). The pump station drains the area of historic Vanport. The pumps and structure are nearing the end of useful operations and will likely begin to fail within five years. The proposed FEMA grant will provide planning, design, and permitting for a new, upgraded pump station.

In addition to protecting public land and infrastructure, the PIR Pump Station is part of a drainage and levee network managed by four special districts—PEN1, PEN2 (Peninsula Drainage District #2), MCDD (Multnomah County Drainage District), and SDIC (Sandy Drainage Improvement Corporation). These four districts are part of the levee and drainage modernization project Levee Ready Columbia, which is sponsored in part by City of Portland.

The importance of this grant and the PIR Pump Station Upgrade is that it not only protects City facilities, but it also improves the negotiation position of the City of Portland as Levee Ready Columbia (LRC) discussions transition to cost allocation methodologies for large financial investments in the levee and drainage system. Through the pump station investment, the City establishes a stronger case for levee modernization commitment from other LRC partners.

This action is consistent with past council decisions to fund and participate in Levee Ready Columbia.

This action does not change City policy.

Financial and budgetary impacts:

This ordinance authorizes the City to apply for and receive grant funds, if awarded, from FEMA. If the City accepts the FEMA grant, the City is obligated to match the grant with 25% local match funds (\$550,000.00). The local match funds are included in the set-aside for Levee Ready Columbia Drainage Districts Support in the FY2022-23 Fall BMP request. The grantor, FEMA, is aware that local City match is pending at the time of ordinance adoption.

This action is of long-term financial benefit to the City. The current PIR Pump Station is owned by Peninsula Drainage District #1, an Oregon Special District. PEN1 operations are funded through landowner tax assessments for properties within the PEN1 boundary. Due to the assessed value of open space and the compounding effect of tax compression, the annual PEN1 budget is insufficient to fund the pump station replacement. City of Portland owns approximately 65% of the land in PEN1. If the pump station were to fail, the responsibility for replacement would default to the City. By preparing to replace the pump station utilizing mostly grant funding, the City decreases the potential for unplanned near-term costs. Additionally, funding the planning, design, and permitting of the pump station now will assist in transferring the pump station asset to the new Urban Flood Safety and Water Quality District (UFSWQD) at the culmination of the Levee Ready Columbia project. At the point of

transfer from PEN1 to the UFSWQD, the City is no longer responsible for pump station operations and maintenance.

This action is for the planning, design, and permitting of the new, upgraded pump station. This action does not include construction, which is anticipated to be funded by UFSWQD. A full project estimate for construction has not been completed for level of confidence. The estimate for planning, design, and permitting is consistent with other pump station efforts in the drainage districts.

This ordinance does not amend the budget. If this FEMA grant application is awarded and matching funds are approved, grant funds will be appropriated through the fall BMP.

This ordinance does not authorize other, additional spending. The ordinance does not change current revenues, future revenues, and/or staffing levels.

The ordinance requires an IGA amendment between BES and Multnomah County Drainage District (MCDD). BES and MCDD have a current IGA for stormwater management, including pump station work orders.

Community impacts and community involvement:

The ordinance and project replace and upgrade public infrastructure. The upgrade will be conducted on the site of the existing infrastructure, which is not accessible by the public. There are no negative impacts of the legislation relating to the public. The risk to the public of not doing the project increases the likelihood of flooding public use areas, public transportation facilities and open space where houseless individuals are often present.

If funded, the project will provide comprehensive stakeholder review as a project requirement prior to final design. Also, the permitting process will require a City Land Use Review, which includes a process for public notification and input. Lastly, the project will meet all City and Federal requirements for notification and procurement.

100% Renewable Goal:

This pump station project is tied to an existing stormwater master plan in PEN1. The plan includes an assessment of opportunities for allowing passive flooding to benefit water quality, improve habitat and reduce pumping activity. Implementation of the master plan, in conjunction with a more efficient pump station will lower the carbon footprint compared to the existing facility, thereby lowering 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