

MEMORANDUM

March 9, 2018

TO: MEMBERS, PORT COMMISSION
Hon. Kimberly Brandon, President
Hon. Willie Adams, Vice President
Hon. Leslie Katz
Hon. Doreen Woo Ho

FROM: Elaine Forbes
Executive Director

SUBJECT: Informational presentation on Planning and Engineering progress for the San Francisco Seawall Earthquake Safety and Disaster Prevention Program (Seawall Earthquake Safety Program, or SESP), from Port staff and CH2M/Arcadis

DIRECTOR'S RECOMMENDATION: Informational Only; No Action Required

EXECUTIVE SUMMARY

The City, through the Port Commission, is endeavoring to make major improvements to the over 100-year-old San Francisco Seawall (Seawall) so the City can withstand the next major earthquake, improve flood protection, and prepare for sea level rise. This effort, previously known as the Seawall Resiliency Project, has been renamed to the San Francisco Seawall Earthquake Safety and Disaster Prevention Program (Seawall Earthquake Safety Program, or SESP). The Seawall underpins the Embarcadero Roadway and provides flood protection to over 500 acres of the City, including the Embarcadero MUNI tunnel and BART Transbay Tube. The Seawall, which stretches 3 miles from Fisherman's Wharf to Mission Creek, sits over unstable mud and is vulnerable to lateral spreading and settlement in a major earthquake, which could seriously damage utilities, light rail and buildings along The Embarcadero.

Major investment in the Embarcadero Seawall is required for The Embarcadero to function how it should after a major seismic event: as a place for people to exit downtown and to access ferries, for first responders to access downtown, for the delivery of supplies, and to remove debris. The Seawall is also subject to current flooding, with lane closures during King Tides, and current flood risk to the Muni tunnel along The Embarcadero.

THIS PRINT COVERS CALENDAR ITEM NO. 8A

To advance and carry out the Program, staff have assembled a dedicated program team consisting of program specific staff, Port operating staff, and two primary consultant contracts, one contract for communications and community engagement (awarded to Civic Edge Consulting, or “CEC”) and one contract for planning, engineering, and environmental services (or “PEEC”) awarded CH2M Hill Engineers, Inc. with Arcadis (or “CH2M/Arcadis”).

On February 13, 2018, a presentation was made to the Port Commission to summarize the communication and stakeholder engagement strategy for the SESP. The presentation to the Port Commission on March 13, 2018 will provide an update on planning and engineering efforts to advance the planning phase and develop the overall program. The presentation will be made by Port staff and members of CH2M/Arcadis.

BACKGROUND

On September 13, 2016, staff provided an informational update on the Seawall Resiliency Project to the Port Commission. The update included a summary of the prior studies and a plan to advance the project using dedicated staff and consultant support.

On March 14, 2017, the Port Commission authorized Port staff to issue a Request for Proposals (“RFP”) for Program Management / Engineering Consultant Services to support the Seawall Resiliency Project.

On August 8, 2017, the Port Commission authorized Port staff to award a contract to CH2M HILL Engineers, Inc., for planning, engineering, and environmental services for the Seawall Resiliency Project in an amount of \$36,349,740 and authorization for staff to increase the contract amount, if needed for unanticipated contingencies, by an additional \$3,634,974 (10% of \$36,349,740) for a total contract authorization of \$39,984,714, with a term of ten years and the Port’s option to extend the term for one additional year. The contract award was subsequently approved by the Board of Supervisors on September 19, 2017, and staff issued a notice to proceed on November 7, 2017.

The purpose of the PEEC contract is to:

- provide expert planning, engineering, and environmental services needed to develop an overall seawall improvement program including definition of the first phase improvements (Phase 1)
- complete preliminary design, engineering and environmental approval of the selected Phase 1 improvements, and to develop the implementation strategy for final design and construction of Phase 1 improvements; and to
- provide strategic and technical assistance during execution of final design and construction of Phase 1 improvements.

This is the first informational update on the PEEC contract work since a notice to proceed was issued to CH2M/Arcadis on November 7, 2017.

STRATEGIC OBJECTIVE

This contract will support the goals of the Port's Strategic Plan as follows:

Engagement:

By regularly engaging in meaningful public participation and incorporate community feedback into Port initiatives, and by keeping the public informed of the financial responsibilities of the Port.

Livability:

By increasing the proportion of funds spent by the Port with LBE and micro-LBEs.

Resiliency:

By leading the City's efforts to address threats from earthquakes and flood risk through research and infrastructure improvements to the Seawall and Port property.

Sustainability:

By enhancing the quality of the Bay water and habitat with the improvements, by limiting construction impacts and waste, and by sustainable design and construction best management practices.

PRESENTATION OVERVIEW

The presentation will cover the following:

- PEEC Team Introduction and Overview
 - SESP Overview
 - Recap of prior studies
 - PEEC Team Organization
 - PEEC Team Scope
- Planning Phase Technical Approach
 - Data Collection, Investigations, and Assessment
 - Multi-Hazard Risk Assessment
 - Alternatives Development
 - Alternatives Assessment & Program Selection
- Work Accomplished since NTP
- Next Steps

Port staff will return to the Port Commission in the summer of 2018 for the next update on planning and engineering progress for the Seawall Earthquake Safety Program.

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