ADDENDUM NO. 1  DATE:  May 20, 2024

REVISIONS TO:
Request for Bids Specification No. ES24-056F
Foss Shoreline Restoration Outfall 230A Repair Project

NOTICE TO ALL BIDDERS:

This addendum is issued to clarify, revise, add to or delete from, the original specification documents for the above project. This addendum, as integrated with the original specification documents, shall form the specification documents. The noted revisions shall take precedence over previously issued specification documents and shall become part of this contract.

REVISIONS TO THE SUBMITTAL DEADLINE:

The submittal deadline remains the same.

REVISIONS TO THE SPECIAL REMINDER TO BIDDERS:

Revision No. 1: Add the following item to the Special Reminder to Bidders:

6. Inquiries
Submit questions concerning this Request for Bids to Stan Rowden II, Senior Buyer, via email srowden@cityoftacoma.org. Subject line of the email to read ES24-056F – Foss Shoreline Restoration Outfall 230A Repair Project – BIDDER NAME. Questions are due no later than: Friday, May 24, 2024 by 5:00 p.m.

Questions marked confidential will not be answered or included. The City reserves the discretion to group similar questions to provide a single answer or not to respond when the requested information is confidential. The answers are not typically considered an addendum. The City will not be responsible for unsuccessful submittal of questions. Written answers to questions will be posted in the event approximately two (2) days after the questions deadline.

REVISIONS TO THE TECHNICAL PROVISIONS:

Revision No. 1: Add the attached letter from U.S. Environmental Protection Agency Clean Water Act Section 404 ARAR Memo: Substantive Water Quality Requirements for the Outfall 230A Slope Cap Repair Project to Appendix C Environmental Documentation of Substantive Compliance.

REVISIONS TO THE PLANS:

Revision No. 1: The title block for the project was issued in error indicating City of Tacoma Public Works Department. The revised title block on the attached plans have been updated to indicated Environmental Services Department.
NOTE: Acknowledge receipt of this addendum by initialing the corresponding space as indicated on the signature page. Vendors who have already submitted their bid/proposal may contact the Purchasing Division at 253-502-8468 and request return of their bid/proposal for acknowledgment and re-submittal. Or, a letter acknowledging receipt of this addendum may be submitted in an envelope marked request for bids Specification No. ES23-0056F Addendum No.1. The City reserves the right to reject any and all bids, including, in certain circumstances, for failure to appropriately acknowledge this addendum.

cc: Jody Bratton, P.E., Science and Engineering Division, Environmental Services Department
FOSS SHORELINE RESTORATION - OUTFALL 230A REPAIR PROJECT

TACOMA, WASHINGTON

PROJECT NO: 2400003

MAINTENANCE AND REPAIR PLAN ATTACHMENT NO. 1

INDEX OF DRAWINGS

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VICTINITY MAP

SCALE: 1" = 1000'
FLOYD SNIDER
Infrastructure + Architecture + Engineering

CONSTRUCTION NOTES

1. HEAVY LOOSE SUPPORT SHALL BE MINIMUM 2.5 FEET BENEATH THE NEAREST SURFACE. HEAVY LOOSE SUPPORT SHALL BE HANDLED PERIODICALLY AND TREATED WITH A PROTECTIVE COATING. HEAVY LOOSE SUPPORT SHALL BE HANDLED PERIODICALLY AND TREATED WITH A PROTECTIVE COATING.

2. THE USE OF RECYCLED MATERIALS IS NOT PERMITTED FOR THE APPLICATION.

3. TOP OF RETAINING WALL TO BE AT LEAST 6 FEET ABOVE GROUND. CONTRACTOR SHALL PROVIDE WRITTEN SUFFICIENT TO COVER HABS AND ARE COMPLETED.

4. CONTRACTOR SHALL KEEP PIER PILES IN PLACE UNTIL CONSTRUCTION OF THE PROJECT AREA IS COMPLETE. CONTRACTOR SHALL COMPLETE WORK.

5. FOSS SHORELINE RESTORATION - OUTFALL 230A REPAIR PROJECT STORMWATER OUTFALL SECTION

OUTFALL 230A PLAN

OUTFALL 230A ENLARGED SECTION

OUTFALL 230A SECTION

HEAVY LOOSE SUPPORT

CONTRACTOR TO REMOVE BEFORE SELL 5 1/2 AND AS SHOWN

CONTRACTOR SHALL VERIFY USING VIDEO FROM THE TWO WORKING HOURS REPORTED PER THE PROJECT.

REINFORCEMENT SHEET SHALL BE AT LEAST 2.5 FEET BENEATH THE NEAREST SURFACE. HEAVY LOOSE SUPPORT SHALL BE HANDLED PERIODICALLY AND TREATED WITH A PROTECTIVE COATING.

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CLEAN WATER ACT SECTION 404 ARAR MEMO: SUBSTANTIVE WATER QUALITY REQUIREMENTS FOR THE OUTFALL 230A SLOPE CAP REPAIR PROJECT

Introduction

This Clean Water Act Section 404 Applicable or Relevant and Appropriate Requirements Memorandum (CWA 404 ARAR Memo) documents the United States Environmental Protection Agency’s (EPA) determination that the in-water activities of the Outfall 230A Slope Cap Repair project meets the substantive requirements of the Clean Water Act Section 404 (CWA 404). A copy of this CWA 404 ARAR Memo and any future amendments will be placed in the Commencement Bay Nearshore/Tideflats Superfund Site files. In addition, copies of this original and any future amendments shall be kept on the job site and made readily available for reference by EPA, the contractor, and any other appropriate federal, tribal, state, and local inspectors.

The Outfall 230A Slope Cap Repair project will address erosion and repair the slope cap off the Outfall 230A apron. Outfall 230A is located in Thea Foss Waterway and within Remedial Area (RA) 8 of the Commencement Bay Nearshore and Tidal Flats Superfund Site. Outfall 230A and the surrounding outfall apron were constructed by the City of Tacoma in 2022 under Nationwide Permit 27 (NWP-2017-595-WRD).

Per the Thea Foss and Wheeler-Osgood Waterways Long-Term Monitoring Plan, regular low tide inspections of capped shoreline areas are performed to verify the physical integrity of slope caps, and to ensure underlying contaminated sediments remain isolated. During the most recent June 2023 low tide slope cap inspections, erosion of some of the cap material off the mouth of Outfall 230A was documented. It was observed that the 12-inch-thick layer of cobbles (2 to 6 inches in diameter) placed off the outfall apron installed in 2022 were no longer present, and geotextile on the northern side of the slope just below the outfall apron was exposed. A slope cap repair action is required as part of the long-term monitoring and maintenance program for the Thea Foss and Wheeler-Osgood Waterways.

Project Description

The repair at RA 8 consists of excavation and disposal of the existing cap material and underlying sediments, followed by placement of a quarry spall filter, geotextile, and heavy loose rip rap with round stream cobbles poured to fill the voids. The extent of the repair area is approximately 180 square feet at or just below 0 feet mean lower low water (MLLW). Work will be performed in low tide conditions but nearly all work will be below the water line. All staging of construction materials and access to the site will be performed on a barge. Details of the maintenance activities to be performed, as well as a design plan sheet, figures and photographs, and material specifications may be found in the Outfall 230A Slope Cap Repair Plan Memorandum (“Repair Plan Memo”) (Floyd Snider 2024), which is incorporated here by reference. All maintenance activities have been coordinated with EPA RPM Carolyn Huynh, who also reviewed and approved the Repair Plan Memo.
Substantive Compliance with CWA Section 404(b)(1)

The CWA Section 404(b)(1) Guidelines require that no discharge of dredged or fill material shall be permitted if there is a practicable alternative to the proposed discharge, that meets the project purpose, which has less adverse impacts on the aquatic ecosystem. In this case, a no-action alternative would cause continued of the RA 8 slope cap and potential exposure of contaminated sediments and support the continued loss of habitat function caused by the erosion of the rounded stream cobbles placed for habitat enhancement. A repair in-kind action that follows the design of the originally installed outfall apron would address the acute erosion of the slope cap and the loss of habitat function but would not include an armor layer and therefore be subject to the same mode of failure need for repair. The Outfall 230A Slope Cap Repair project is the least environmentally damaging practicable alternative as it will repair the eroded slope cap to contain the underlying contaminated sediments, include an armor layer that will protect the slope cap from future erosion, and incorporate fish habitat enhancement features to maintain habitat functions.

The 1990 Memorandum of Agreement regarding Mitigation under CWA Section 404(b)(1) Guidelines between the EPA and the Department of Army established a three-part process, known as the mitigation sequence (avoid, minimize, and compensate), to help guide mitigation decisions and determine the type and level of mitigation required. The design of the Outfall 230A Slope Cap Repair project meets this substantive requirement of the CWA by having avoided and minimized impacts to the aquatic environment to the maximum extent practicable. Repairs at RA 8 are necessary to prevent further exposure of shoreline contaminated soil and slag materials sequestered on-site, and to prevent additional erosion of the adjacent shoreline cap by Outfall 230A. The original design of the outfall apron did not include an armoring layer which led to erosion of the slope cap and the need for a repair action. The Outfall 230A Slope Cap Repair project design includes an armor layer that will protect the slope cap while maintaining the habitat enhancement requirements of the original permit. Since the project design avoids and minimizes impacts without unavoidable deleterious impacts to aquatic resources, no mitigation is required for this action.

Subpart G of the CWA Section 404(b)(1) Guidelines addresses the evaluation and testing of dredged or fill material that may be discharged into a water of the United States. Excavation of the existing cap material and underlying sediment are necessary to facilitate the placement of heavy loose riprap and streambed cobbles. The excavated materials will be segregated from new fill material and disposed of at an upland waste facility approved by the City of Tacoma and EPA. Characterization of the excavated materials is not required for compliance with CWA Section 404, however samples of the eroded slope cap surface have been collected and are being analyzed for Thea Foss sediment contaminants of concern (City of Tacoma 2006, 2020) and additional analytes used for waste profiling in order to identify an appropriate upland disposal option. All fill material to be placed in-water as part of the slope cap repair will be clean of contaminants.

The Outfall 230A Slope Cap Repair project incorporates a list of best management practices to protect water quality (Repair Plan Memo), will observe the bull trout and chinook salmon in-water work window (July 15 – February 15), and will follow all other requirements of the Water Quality Monitoring and Protection Plan (Floyd Snider 2024). Given the project’s short duration and nature, the small extent of the project footprint, as well as performance of intertidal work during low tide to the extent possible, no effects are anticipated to ESA-listed species, including southern-resident killer whales, bull trout and juvenile chinook salmon. The proposed project is the least environmentally damaging, practicable alternative for accomplishing the required repairs, while protecting adjacent shoreline capped areas.
In summary, the Outfall 230A Slope Cap Repair project substantively complies with the 404 ARAR. Discharges will not cause or contribute to violations of water quality standards or toxic effluent standards, jeopardize an endangered or threatened species, destroy or adversely modify critical habitat, or impact a protected marine sanctuary. There will be no discharges resulting in significant degradation to waters of the United States. The maintenance work will be accomplished during low tide to the maximum extent possible and entirely within the existing armored shoreline footprint. The work will prevent further exposure of contaminated soil and slag materials and prevent further top of bank erosion while maintaining fish habitat features.