



City of Tacoma

Questions and Answers

Cushman No 1 Dam Right and Left-Wing Wall Anchoring RFB Specification No. **PG26-0073F**

All interested parties had the opportunity to submit questions in writing by email to Ryan Foster by date questions were due. The answers to the questions received are provided below and posted to the City's website at www.TacomaPurchasing.org. Navigate to [Current Contracting Opportunities](#) / *Public Works and Improvements Solicitations*, and then click *Questions and Answers* for this Specification. This information IS NOT considered an addendum. Respondents should consider this information when submitting their proposals.

- 1. Question: Section 13.2 identifies work hours as Monday-Friday 7-5. Work outside this time requires the contractor to pay for inspection time. Please identify the rate the contractor should expect for additional hours during the week and on Saturdays.**

Answer: The contractor shall reimburse the City for the full amount of costs for the City employee who must work overtime hours outside of the hours identified. Actual wages can vary dependent on the employee but for the purposes of bidding this can be estimated at \$120/hr.

- 2. Question: Please confirm that the concrete backfill for pocket referenced on sheet S-12 and S-13 are not included in this contract.**

Answer: Confirmed. The concrete backfill for permanent encapsulation of the anchor head is excluded from this contract.

- 3. Question: Section 023219-1.5F requires the televiewer operator to be a PE/PG within the state of Washington. Can the requirement of a PE/PG be removed? Are there additional duties not identified in the specification that require this person to be a PE/PG?**

If not, can an offsite PE in another state be allowed to perform a review of this data?

Answer: The specification will be revised to omit the PE/PG requirement for the televiewer operator on site, however, the interpretation of the data for submittal to the Owner will be required to be under the supervisions of a licensed PE/PG. The specification will also be revised to allow for out-of-state PE/PG licensure.

- 4. Question: The length and size of the anchors has been prescribed by Owner. Sheet S-11 note 2 asks the contractor to adjust the length as they see fit to achieve capacity. Can Note 2 be stricken so long as the anchor is installed in accordance with the specification and approved work plan? Any required changes would be compensated for the necessary adjustments (length, size, etc) either by existing pay items or as appropriate**

Answer: The minimum bod length and minimum drill hole diameter have been prescribed by the Owner based on an assumed ultimate bond strength. Note 2 on sheet S-11 will remain, as means and methods of the contractor impact the achievable bond strength of the grout-to-rock interface.

- 5. Question: The Differing site condition clause is reasonable. There is conflicting language in the specification. Please consider the following options:**



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Section 01010 - Section 1.3 can the 5th paragraph be removed (the city assumes no responsibility...)

If not - can the following be added to the existing paragraph - "Notwithstanding the above paragraph, Appendices B and C can be relied upon and used for preparation of the Contractor's bid. "

Answer: The referenced paragraph will be removed from the specification.

- 6. Question: Please confirm that the contractor will have the ability to pursue material changes in the work when moving from 75% to 100%**

Answer: An addendum will be issued to provide the 100% documents, however these documents are still subject to regulator review which may result in changes between bid documents provided and final construction documents. If the contractor believes that conditions have changed such that there are impacts to cost or schedule for the project then an Change Order Proposal (COP) can be submitted per the contract.

- 7. Question: Section 01740 - Contaminated soils and waste on not expected. If they are encountered, can this be treated as a changed condition rather than assuming and pricing everything as requiring special handling and removal? This could be handled under the force account pricing section or as deemed appropriate by the Owner. This would not apply to hazardous materials brought to the site by Contractor.**

Answer: Yes, if encountered this can be considered a changed condition.

- 8. Question: At the site visit the possibility of remobilization after mid July could be required. Can a bid item (alternate) be provided to cover this option? The variable start date of the work (after contractor and submittal approve) and the number of consolidation grouting and redrills will heavily influence the Contractors' ability to schedule the work.**

Answer: An additional mobilization will be added to account for the pilot hole drilling and anchor hole drilling phases of the project. These may be performed as the contractor sees fit within the amended schedule, to conclude by December 31, 2027.

- 9. Question: Section 316813 section 3.1e discusses grouting in one continuous operation and requires grouting the corrugated in stages. Can both options be available for anchor install?**

Answer: The project documents have been revised to specify that the corrugated sheathing gets installed first and annulus grouted. Followed by the tendon installation and inner grout afterwards. One continuous operation is not permitted.

- 10. Question: There does not appear to be soil information at the verification anchor location. The contractor will need to establish a safe reaction for the anchor load. Can the nature of the subgrade material be provided? I.E. Depth of fill, nature of fill, possible contamination, depth to rock, presence of buried structures, etc.**

Answer: The material is expected to be glacial soils (~15-20 feet) underlain by weathered rock and then bedrock. Preliminary bearing capacity calculations demonstrate that the force from the load test distributed across mats is achievable. Some settlement could be expected and needs to be accounted for in the load test apparatus and reading of dial gauges. Buried structures or contaminated soil are not anticipated.



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11. Question: Approximately how much time is expected for the Contractor to receive approval after pilot hole drilling before proceeding with anchor hole drilling?

Answer: It is reasonable to anticipate this could take up to 1 week upon submitting the interpreted DTH televiewer results to the Engineer. Each hole requires evaluation of the core and televiewer data by the EOR and for the EOR to provide Tacoma Power a memorandum of results for submittal to the FERC.

12. Question: Is the contractor responsible for logging and boxing exploratory holes?

Answer: The Contractor is responsible for providing core boxes. The Engineer is responsible for logging of the core samples. Section 02 32 19 of the specification will be revised to reflect this.

13. Question: Is Double Corrosion Protection necessary on the Verification Anchor?

Answer: Double Corrosion Protection on the Verification Anchor is not necessary as long as the construction is the same as the production anchor to provide for an equivalent test.

14. Question: Does the boat ramp near the FSC storage building need to remain open?

Answer: The boat ramp is typically used a couple times a month. The boat ramp can be blocked for periods of time however this will need to be coordinated with operations.

15. Question: Is the staging area near the FSC storage building all available?

Answer: Staging areas are provided on the revised drawing set that will be provided in an addendum. The area around the upper FSC storage building is available for staging, however access into the garage doors, specifically to retrieve the munson boat, must be facilitated. Any staging of materials and equipment should be coordinated with Tacoma.

16. Question: Are there any obstructions or obstacles in the reservoir inside the exclusionary area that would interfere with the barge or setting spuds?

Answer: The only known obstacles would include the power tunnel intake and the FSC anchorage. Drawing BP2809 will be provided to as Appendix I to show the mooring and anchorage for the FSC.

17. Question: Can contractors use a skiff to travel from the barge and dock to the FSC?

Answer: Contractors will not be allowed to dock or connect to the FSC.

18. Question: What are the bridge and spillway load ratings if approaching from the spillway side of the dam?

Answer: In order to approach from the right side of Cushman Dam you will drive in on the Skokomish Valley Rd and NF-23. There are (2) bridges to cross that include:

The High Steel Bridge – Built 1929 by Simpson Logging Company/American Bridge Company. 375' Height, 685' Length. Load Rating/Weight Limit 54 kips, or 27 tons (5-axle configuration).

Green Diamond Owned Bridge – Built 2023. 90' Length. HL-93 Design Load

The spillway precast concrete bridge deck is designed to meet AASHTO HS20-44 loading.



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19. Question: Are other potable water sources available?

Answer: The contractor is responsible sourcing potable water or verifying that the lake water is suitable for use in grout mixing.

20. Question: Do all spoils need to be removed from the site?

Answer: All spoils shall be removed from the site. Drill fluid may be able to be discharged onsite if sampled and dispersed in the locations and methods prescribed in the WQPP.

21. Question: Does the contractor need to be responsible for collecting grout contaminated water at the adit outlet?

Answer: The adit outlet discharges into a rocky well-draining area below the dam. It is anticipated that this area will collect any discharge and not allow for it to directly enter waters of the state. As long as no grout contaminated water is allowed to enter waters of then state then the contractor is not responsible for collecting it at the adit outlet.

22. Question: Is there a procedure for flushing out the right abutment adit drains?

Answer: A procedure for flushing the drains is provided in the DPP. A bid item will be added to cover this procedure, if deemed necessary.

23. Question: Can the anticipated water levels (lake level) behind the dam for the period of July 15, 2027, through approximately September 2027 be provided?

Answer: For July and August, lake levels are usually between elevation 735 and 738. For September, levels are expected to be above 735 through Labor Day and then will begin to draft 10-15ft lower for the rest of the month in preparation for winter operations. Please note that these are targets and they can, and do, change depending on available lake inflows.

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