



ADDENDUM NO. 2

TO: All Plan Holders and Prospective Bidders
FROM: City of Capitola Public Works
DATE: July 30, 2020
RE: **ADDENDUM NO. 2**
CAPITOLA BEACH FLUME AND JETTY REHABILITATION

ADDENDUM NO. 2

City of Capitola, California

This Addendum shall be considered as a part of the bid documents for the subject project as though it had been issued at the same time and shall be incorporated integrally therewith. Where provisions of the following supplementary data differ from those of the original documents, this Addendum shall govern and take precedence.

Contractors are hereby notified that they shall make any necessary adjustments in their proposals on account of this Addendum. It will be construed that each proposal is submitted with full knowledge of all modifications and supplemental data specified herein.

Receipt of this Addendum must be acknowledged on the Addendum Acknowledgement form. Signature on said Bid Form indicates acknowledgement of receipt of Addendum No. 2, and that said Addendum No. 2 was properly evaluated in bidder's proposal. Any proposal not in compliance with this requirement may be rejected.

Steven E. Jesberg, Public Works Director

The following is hereby added and/or amended:

The attached table with questions 1-20 which include modifications to the text in the following two sections:

1.3 PRE-QUALIFICATION OF FRP INSTALLER/CONTRACTOR
3.2.5 Surface Cleaning:

#	Question	Answer
1.	Excavation for Flume Repairs - Can bidding Contractor assume that there will be no beach excavation and grading work necessary to expose the flume for repair work? Plans show an approximate beach elevation (winter) and the bid schedule does not contain a bid item to address potential beach excavation if necessary. How will beach excavation be addressed and paid for should it be necessary?	All steps needed to prepare the work area will be the responsibility of the contractor. The contractor will be responsible for clearing any sand necessary to complete the work.
2.	Fiberglass Liner, Section 10.01-3.2.3: Section 3.2.3 requires the contractor to epoxy inject all cracks larger than 0.05 inch prior to FRP layup, and the City has provided little useful information for the Contractor to accurately quantify the work. - Can the city provide bid items and an engineer's quantity (LF) for the epoxy injection work?	An exact quantity of crack repair is not available. The plans and 2013 condition assessment (Addendum #1) provide the most up to date detail available. It can be assumed that crack repair will be required along the entire 225 foot length of the flume.
3.	Flume Isolation for repairs: Can the contractor install a temporary bulkhead at the flume discharge (E: +2.18') to prevent the flume from filling with water and sand while under construction? If yes, does the contractor need to worry about flume buoyancy during a high tide?	Yes, no need to worry about buoyancy.
4.	Fiberglass Liner, Section 10.01-3.2.5: This spec section requires the flume to be "allowed to fully dry" prior to FRP application. Given that the flume will be partially underwater twice a day and has leaky cold joints, this language is not unrealistic. Can this language be revised? There are epoxy resins suitable for application to damp and wet substrates	Modification to text: 3.2.5 Surface Cleaning: Substrate concrete and finished surface of concrete shall be cleaned prior to application of the FRP and allowed to dry fully <u>drain of standing water</u> . Cleaning shall remove any dust, laitance, grease, oil, curing compounds, wax, stains, coatings (as necessary), surface lubricants, foreign particles, weathered layers, or any other bond-inhibiting material. If power wash is used, the surface shall be allowed to dry <u>drain</u> thoroughly before installing the FRP system. The cleaned surface shall be protected against redeposit of any bond-inhibiting materials.
5.	Bid Item 7, Armor Stone @ 600 Ton - Specification Section 10.02 provides armor stone sizes for both the Armor Rock (3 Ton), and the Underlying Rock (5Lb to 600LB) - For clarity, is this bid item for just for new Armor Rock (3 ton), or is the City including both rock items in this single bid item? If yes,	Bid item 7 quantity includes armor rock and underlying rock.

	they should be quantified separately on the bid schedule	
6.	Spec Section 10.01-1.3.1 states that FRP installers must have experience in “pipeline rehabilitation projects.” This requirement is very restrictive by this narrow description and will limit bids from legitimate FRP installers. Can this language be expanded or reworded to say that FRP installers must have verifiable experience in “marine concrete rehabilitation projects” and/ or “concrete rehabilitation projects”?	Modification to text: 1.3 PRE-QUALIFICATION OF FRP INSTALLER/CONTRACTOR 1.3.1 The Contractor must be prequalified by the Owner or its representative for each FRP system after providing the following necessary information: 1. A minimum of 5 years of documented FRP rehabilitation experience with a minimum of 1,000 LF (36 inches and above) of pipeline and/or concrete rehabilitation projects verifiable with reference letters from respective Owners.
7.	Addendum 1 provides the Concept Study to assist in the understanding of the amount of crack filling that will be required in the flume. Pages 14-19 of the PDF show field notes of the damage, however, the total length of the cracks is unclear. Can you provide the quantity of crack injection repair (LF) and spall repair (CF) that we should assume in our base bid?	See answer to #2 above
8.	It is pertinent to define a base quantity to allow for accurate comparison of proposals. Is there a quantity in the engineer’s estimate that can be used? This will prevent a contractor from underbidding based on insufficient information, and can provide unit pricing for the growth or reduction in scope.	See answer to #2 above
9.	Section 11 of the special provisions calls for the contingency bypass pipe to 36”. Note 3 on page C110 of the plans calls it out as 26”. Can you please clarify size.	It should be 36 inch. 26 is a typo.
10.	Request for approval of alternate FRP material	In addition to Quakewrap. The following alternate FRP systems have been approved. <ul style="list-style-type: none"> • Fyfe Company’s Tyfo® Fibrwrap® System (https://www.aegion.com/about/our-brands/fyfe) Tomas Jimenez, Fyfe Company, 858.433.9331 • V-Wrap™ FRP System (https://structuraltechnologies.com/force-protection/v-wrap-frp-composite-systems/) Ian McFtridge, Structural Technologies, 360.909.0705

11.	In Technical Provisions Part 10.01, Fiberglass Liner, what type of truckload should be considered for the design live load? (section 2.1.2)	Section 2.1.2 Design Load - Live Load can be assumed to be 0. The installed system shall withstand other loads specified.
12.	In Technical Provisions Part 10.01, Fiberglass Liner, what is the expected design service life for this repair?	30 Years
13.	In Technical Provisions Part 10.01, Fiberglass Liner, please clarify the governing minimum physical and mechanical properties for the FRP materials. Quakewrap VB2610G, indicated in Part 10.01 as pre-approved, does not have physical and mechanical properties that correlate to the chart in section 2.2.3 of Part 10.01.	The characteristics for the liner fabric are as stated in section 2.2: table 2.2.3. there are carbon fiber fabrics that have these characteristics. The referenced Quakewrap fabric is in the next section 2.3, Glass Fabric, and is for use in isolating the fabric described in 2.2. The requirements in section 2.2 do not apply to the glass fabric.
14.	In Technical Provisions Part 10.01, Fiberglass Liner, what amount of damage or deterioration to the concrete culvert structure should be considered for the composite design?	See answer to # 7 above
15.	In Technical Provisions Part 10.01, Fiberglass Liner, what is the minimum required bonding strength between GFRP and concrete structure?	A minimum has not been specified. The FRP shall adhere to the concrete with no delamination per section 3.5.
16.	Throughout Technical Provisions Part 10.01 there are references to "PCCP". Please clarify the use of this reference.	Prestressed Concrete Cylinder Pipe (PCCP). This specification was based upon on a PCCP specification and modified for this similar application.
17.	In Technical Provisions, Part 10.01, Fiberglass Liner, section 1.3 discusses pre-qualification of installers by the Owner or its representative for each FRP system. Please clarify if prequalification is prior to bid, a list of current prequalified installers, and details on the process to become prequalified.	Installers will not be prequalified prior to bid. See 1.4.2 and 2.1.1 regarding acceptable systems and approvals prior to bid.
18.	What is specifically needed for the below statement? Notice is also hereby given that all bidders shall submit, with their proposals or bids, a sworn statement of their financial responsibility, technical ability and experience.	See sections 2.15 Competency of Bidder 1.3 Pre-Qualification of FRP Installer/Contractor 3.1 General Procedures
19.	Can proposals be sent via fed ex?	Yes, as long as the bid package is received before 11am on August 5th.
20.	Bid Bond – is there any requirement for US long shoreman, harbor workers or any kind of Jones Act liability required for this project?	No