



GUAM WATERWORKS AUTHORITY

Design and Construction of the Umatac-Merizo Wastewater Treatment Plant Upgrade

GWA Project No. S17-002-BND

IFB-03-ENG-2017

Step 2 - RFI Response No. 3 to Contractor Inquiries

This Addendum and/or Response to Request for Information (RFI) is issued to modify the previously issued bid documents and/or given for informational purposes and to the extent the responses below modify the bid documents, please treat them as an amendment to the Bid. The following responses are in response to RFIs received.

REFERENCE	QUESTION/INQUIRY AS SUBMITTED:	GWA RESPONSE:
Pending Question from RFI Response No. 02		
1	Please specify which buildings or Structures will require Lightning Protection.	Evaluate the Headworks, UV Disinfection, and Overland Flow Storage tank for lighting protection and install protection system to meet requirements of the evaluation.
27	Section 6.11.4 Grounding and Lightning Protection Is grounding of fencing at overland flow site needed?	Grounding of the overland flow site fencing is not required.
28	Section 6.10 Fire Protection Do we need hydrants at the various building sites as well as roadways?	Review existing as-builts and codes and determine what is needed for new and modified structures and site.
31	Section 7.7.2 Design-Builder Permitting Responsibilities Are we required to do environmental planning? Do you think Army Corps consultation needed relative to wetlands or waters of the U.S.? Potential encounter if existing bridge structurally inadequate or pedestrian paths cross either.	See Conceptual Documents, Volume 1, Section 2.2.3 for Stream Crossing assumptions. Pedestrian paths may need to cross wet ground or minor tributaries, bidders shall assume consulting with Army Corps is needed.
32	Drawing G102 Do we have a copy of wetlands delineation & snail habitat boundaries?	No wetlands delineation or snail habitat boundaries are available. Design-builder shall provide a biologist to monitor the project. The biologist shall survey the areas immediately prior to clearing and conduct daily site surveys during construction. A monitoring report will be provided to GWA on a monthly basis.

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Questions from March 24, 2017		
1	Overland Flow Storage tank: Please advise if tank would require tank cover or roof.	See Conceptual Documents Volume 1, Table 6-14.
2	<ol style="list-style-type: none"> 1. Please advise if all removed and replaced pumps and piping will be turned over the government. If it is please advise to where those materials will be delivered. 2. Please advise if all the underground pipes which are scheduled to be decommissioned will be abandoned in place such as the existing effluent force-main. 	<ol style="list-style-type: none"> 1. See Conceptual Documents Volume 1, Section 4.8. 2. Design-builder can assume that GWA will designate a location on site for all equipment surrendered to owner.
Questions from March 28, 2017		
1	<p>New asphalt paving work: Please confirm if our interpretation is correct that there are only two locations where new asphalt paving is required, one around the existing lagoon and two at the new access road at the overflow terraces. Otherwise please indicate on plans other locations where new asphalt paving is required.</p> <p>Repair of concrete berm liner deficiencies: The called out concrete berm liner deficiencies were not visible during the site visit due to grass over growth. For uniformity in bid reference please advise type of repair needed and quantity.</p>	<p>That is correct. Pavement improvements shall also include repair of construction damages or pavement needed during construction.</p> <p>Assume 10% of the liner area required repair.</p>
2	Concrete protective coating:	<ol style="list-style-type: none"> 1. No coating required for the tank, however, see section 1.3.2 2. Use tank manufacturer's standard finish.
3	<ol style="list-style-type: none"> 1. Please advise type of concrete coating material required for the interior side of the tank and extent the extent of application 2. What will be the required architectural finish for the tank exterior surfaces? 	<p>No new gate required. Only the New Overland Flow Storage Tank area will require new fencing to enclose the site. Any gaps or holes in existing fencing shall be repaired. See Conceptual Documents, Volume 1, Section 6.5.4.</p>
4	Extent of fencing required: Please indicate on plans layout of the new perimeter fencing and gate required for the facility	<p>The new access road at the overland terraces will be realigned and trees will need to be removed.</p>
5	Trees: It was noted during the site visit that there are trees on the existing access road at the Overflow terraces. Please advise if those trees will be remove and disposed	

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<p>6</p> <p>Follow up for RFI no.8</p>	<p>Request for CADD file for drawing C231 and C232: We would like to follow up for the early release of the CADD file being requested as a transcendence element of the preliminary regrading design of the Overflow terraces.</p>	<ul style="list-style-type: none"> • The Topographic Survey prepared by Prudencio R. Balagtas & Assoc., Inc. for GWA for a previous project are provided with this Response to RFI. • Brown and Caldwell (BC) is also providing CAD files for Conceptual Documents Volume 2, Drawings C231 and C232 under the following Terms and Conditions: <ol style="list-style-type: none"> 1. Any use of the original or altered CAD files by Recipient or others will be at Recipient's sole risk and without liability or legal exposure to BC. Furthermore, Recipient shall, to the fullest extent permitted by law, indemnify, defend and hold BC harmless from any and all claims, damage, liability or cost, including attorney's fees and costs of defense, arising from any use of the CAD files and the included data and drawings. 2. Since the information set forth on the CAD files can be modified unintentionally or otherwise, BC reserves the right to remove all indicia of its ownership and/or involvement from each electronic file. 3. BC makes no representation regarding the accuracy, completeness, or permanence of CAD files, nor for their merchantability or fitness for a particular purpose. 4. Addenda information, revisions or as-built information may not have been incorporated into the CAD files. In the event of a conflict between BC's sealed contract drawings and CAD files, the sealed contract drawings shall govern. It is the Recipient's responsibility to determine if any conflicts exist. 5. Under no circumstances shall transfer of the CAD files and other instruments of service on electronic media for use by Recipient be deemed a sale by BC, and BC makes no warranties, either expressed or implied, of merchantability or fitness for any particular purpose. <p>• THE CAD FILES FOR TOPOGRAPHIC SURVEY AND REVISED CONCEPTUAL DRAWINGS (C-231 & C-232) ARE AVAILABLE FOR PICK UP AT GWA ENGINEERING DIVISION (please see Gloria Bensen).</p>

REFERENCE	QUESTION/INQUIRY AS SUBMITTED:	GWA RESPONSE:
7	<p>Previous GWA projects have required single party responsibility for the AWWA D110 Type I tank by an experienced tank builder. Please confirm that similar criteria is intended for this project such that the prestressed concrete tank option shall be performed by an established Tank Contractor having at least ten years of experience in the construction of AWWA D110 Type I core wall, strand wound prestressed concrete tanks as specified in the contract documents. All aspects of tank construction including the foundation, floor slab, wall, prestressing, shotcrete, and roof shall be performed by the Tank Contractor. The company shall have built in its own name or under one of its divisions, at least five AWWA D110 tanks with Type I core wall in the high seismic region of Guam. The design and construction of AWWA D110 Type II, III or Type IV core wall tanks, tanks having fixed wall bases, mild-steel reinforced tank core walls, tank core walls incorporating internal stressing systems or external wire wrapping (in lieu of strand wrapping) is not acceptable. The Tank Contractor's Superintendent shall have previous minimum experience in the company's own name constructing at least five AWWA D110 Type I prestressed concrete tanks one of which shall be of at least 0.5 MG capacity and located in Guam.</p>	<p>Changes to tank requirements will be made via future Addendum.</p>
Questions from March 29, 2017		
8	<p>Can further description be provided for Table 2-1 Bid Form descriptions? The Item Numbers in the table do not seem to follow any scope descriptions identification in the Conceptual Documents (Volume 1 of 2). Some examples where clarification is needed include, but are not limited to:</p> <ol style="list-style-type: none"> 1. It is currently interpreted that the items that describe "All work to construct....." are exclusive of 4.12 All electrical work, including new generator, or 4.13 All instrumentation and Control work including telecommunications. 2. How does 4.7 All work to construct New Lagoon Effluent Forcemain compare to the work in 4.7.1 Excavation, or 4.7.2 All other work to construct New Lagoon Effluent Forcemain? 	<p>Bidders shall provide all-inclusive bids to provide a complete and functional project. All work not specifically included as separate bid items shall be included in Bid Item 4.18 (Addendum 2).</p>
9	<p>Can discrete be 24VDC instead of 120VAC required per conceptual document section 6.12.3. Is this a GWA standard? 24VDC discrete will allow all the control I/O wiring to be in the same conduit. It is also safer for a technician to work with during future maintenance.</p>	<p>Yes, discrete signals can be 24 VDC. Discrete and analog signals must be installed in separate conduits.</p>

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10 Section 7.5.3.3	Under paragraph 7.5.3.3 Required Preliminary Design Submittal Contents, a subparagraph under Electrical systems requires Lightning Protection Systems (LPS), if required per an LPS evaluation. If found to be required, please confirm that it is for the structures and systems on the new electrical service only. If required for structures and systems on other electrical services on site, please identify those additional structures and provide information that identifies their elevations, building construction type, use, and their electrical distribution back to the point of service."	Evaluate the Headworks, UV Disinfection, and Overland Flow Storage tank for lighting protection and install protection system to meet requirements of the evaluation.

Bidders are also notified to visit GWA website: www.guamwaterworks.org to ensure that addenda to the bid, answers to questions, and reminders are communicated to all bidders throughout the solicitation process.



MIGUEL C. BORDALLO, P.E.
General Manager

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