



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. 1 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:
Questions from March 10, 2017		
1	<p>Part 2 – Conceptual Documents, Supplementary Conditions</p> <p>Comment: It is noted that existing boring logs on drawings referred to in SC-5.05.A.2.ii of the Supplementary Conditions</p> <p>Question: Please provide a copy of the existing boring logs and soils report as contained on Supplementary Conditions SC-5.05.A.ii for foundation design reference not found on the RFP documents.</p>	<p>The borings are included in the 1977 Umatac-Merizo Wastewater System drawings which were uploaded onto the GWA website on 12/21/2016 and under “Umatac-Merizo WWTP As-Builts 1977” and are available for download. A soils report is not available. See Conceptual Documents, Volume 1, Sections 2.2 and 7.3.2.</p>
2	<p>Conceptual Documents, Volume 2, Drawing C201</p> <p>Please identify and advice which part of the Headworks System would be considered as prescriptive and or performance in nature</p>	<p>See Conceptual Documents, Volume 1, Section 6.4.2 for technical requirements for the New Headworks.</p>
3	<p>Conceptual Documents, Volume 2, Drawing C241</p> <p>Please identify and advice which part of the UV System would be considered as prescriptive and or performance in nature</p>	<p>See Conceptual Documents, Volume 1, Section 6.4.7 for technical requirements for the New UV System. Also see Conceptual Documents, Volume 1, Section 2.2.</p>

REFERENCE	QUESTION/INQUIRY AS SUBMITTED:	GWA RESPONSE:
Questions from March 13, 2017		
4	<p>Section 6.2 Applicable Codes and Standards states "Unless a specific document date or version is indicated in Table 6-1, Design-Builder shall use the most current codes and standards, including any applicable addenda, as of the "Contract Date." Since there is no date or version provided in Section 6.2 for the IBC (International Building Code), please confirm that the most current version, IBC 2015 shall be used.</p> <p>If there is a conflict between a code or reference standard provided in Table 6-1 and that referenced in the IBC, which should be govern? For example, if IBC 2015 is used, the appropriate version of the Building Code Requirements for Reinforced Concrete is ACI 318-14. However, Table 6-1 indicates the use of ACI 318-08.</p>	<p>The IBC adopted by Guam shall be used.</p>
5	<p>Is the lagoon lined? When was the lagoon last dredged of settled solids? Is there a need to dredge the existing lagoon or the existing recirculation pond in advance of the improvements?</p>	<p>No. The lagoon is not lined. There is a 6-ft wide concrete slope protection at the normal water line – detail on Sheet C-33 of the Umatac-Merizo WWTP As-Builts 1977 (uploaded to the GWA website on 12/21/2016). There is no need to dredge the lagoon or recirculation pond. GWA dredged the lagoon a few years ago.</p>
6	<p>What is the carrying capacity of the bridge to the overland treatment area?</p>	<p>See Conceptual Documents, Volume 1, Sections 2.2 and 7.3.3. The available information on the bridge is included in the Umatac-Merizo WWTP As-Builts 1977 Sheets C-41 and C-42. Drawing set was uploaded to the GWA website on 12/21/2016.</p>
7	<p>On this sheet, is the smaller rectangle on the right side of the sheet the new flow meter?</p>	<p>It is the new effluent structure otherwise shown and labeled on Conceptual Documents, Volume 2, Drawing C231 and detailed on Conceptual Documents, Volume 2, Drawing C213.</p>

REFERENCE	QUESTION/INQUIRY AS SUBMITTED:	GWA RESPONSE:
Drawing C223		
8 Conceptual Documents, Volume 2, Drawing C231/232	Can CADD file for C231 be provided to develop bid?	<i>Pending, to be addressed in the next response to RFIs.</i>
9 Conceptual Documents, Volume 2, Drawing C241	Is the UV system layout provided in the drawings based on the requirement to treat the 100yr peak flow?	The design-builder can adjust the UV layout as long as the first UV channel can treat 1.0 mgd and there is a bypass channel for flows over 12.8mgd as stated in Conceptual Documents, Volume 1, Table 6-16 in Section 6.4.7.
10 Conceptual Documents, Volume 2, Drawing D101-D111	What is the intent of the SCADA system? Is it to provide full time monitoring and reporting? What about remote equipment control? How are responses to emergency operations handled?	SCADA system will provide full time monitoring, data collection, and reporting of plant operation. Equipment can be operated from the SCADA system on site, no offsite access at this time. Provide local and remote alarm notification.
11 Conceptual Documents, Volume 2, Drawing D107	What is the function of the orifice plate? Is a spec provided for it? If so, where?	Orifice plates will regulate the pressure from the New Storage tank. The downstream butterfly valve will be used to trim the flow to an individual terrace. Designer-builder will need to size the orifice plate.
12 Conceptual Documents, Volume 2, PI&ID Plans	Generators - Where are generators shown on the plans?	The existing standby generator for the influent pump station is located in building SD-13 at the influent pump station. A new ATS will be required as noted in Conceptual Documents, Volume 1, Section 6.11.14. The existing standby generator for the plant is located in building SD-12 (see Conceptual Documents, Volume 2, Drawing C211) and does not have sufficient capacity for the new plant services, new generator and ATS are required.
13 Conceptual Documents, Volume 2, Drawing E102	Where are the existing generator and ATS located? Will it and the existing ATS be reused as is? Where is the new generator to be located?	There is an existing standby generator for the recirculation pump station in the existing building at the recirculation pump station which can be reused. The new standby generator for the plant will be located in the new headworks building as noted in Conceptual Documents, Volume 1, Section 4.2.2.
14 Conceptual Documents, Volume 1, Section 5.1 (Table 5-1)	How was the design flow of 12.8 MGD for the UV system determined?	12.8mgd is the peak lagoon effluent flow plus the stormwater collected from the overland flow terraces during the 1-hr, 1-yr storm event. Flows up to 12.8 mgd will need to be disinfected. To prevent overflows, a bypass channel is required for higher flows, which are considered an upset condition.

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15 Conceptual Documents, Volume 1, Section 5.1	2. On page 5-5, it states, "The upgraded WWTP.....and as described above. "What happens if all the detailed contract documents requirements are met, but performance standards are not met on a continual basis?"	<i>Pending, to be addressed in the next response to RFIs.</i>
16 Conceptual Documents, Volume 1, Section 6	Table 6-12 states to see plans for orifice spacing and size. These are not shown on the plans, please provide.	<i>Pending, to be addressed in the next response to RFIs.</i>
17 Conceptual Documents, Volume 1, Section 6.4.6 (Table 6-12)	Table 6-12 identifies a design loading rate of 0.84 gpm per width of terrace. For a terrace width of 100, the design flow rate is therefore 84 gpm. What is the length of the distribution piping associated with this flow rate of 84 gpm; and how is the flow rate of 84 gpm to be adjusted for increases or decreases in the length of distribution piping?	<i>Pending, to be addressed in the next response to RFIs.</i>
18 Conceptual Documents, Volume 1, Section 6.11.14	Section 6.11.14. Please provide size of existing standby generator to be used. What is the year of this generator? Why isn't the new generator used for this service? Where is the new generator to be located?	The existing standby generator for the influent pump station is 100kva and is in building SD-13 at the influent pump station. The existing standby generator for the recirculation pump station is 65 kva, in the existing building at the recirculation pump station, and can be reused. The existing standby generator for the rest of the plant is 125kva and is located in the existing building SD-12 (see Conceptual Documents, Volume 2, Drawing C211). The existing generator could be reused but will not be large enough to support the new plant processes (headworks, new aerators, new effluent pump station, new UV system, etc.)
19 Conceptual Documents, Volume 1, Section 6.12.1	Section 6.12.1 states that facility is to be "largely unmanned", please confirm definition of this statement.	See Conceptual Documents, Volume 1, Section 1.4.
20 Conceptual Documents, Volume 1, Section 6.12.9 (Table 6-72)	Table 6-72 states that dial up phone line is to be used for emergency notification. How are PLC signals going to be sent to remote sites?	Provide PCS network to connect PLC's and SCADA equipment. Provide alarm dialer hardware or software to notify operators of alarm conditions.

REFERENCE	QUESTION/INQUIRY AS SUBMITTED:	GWA RESPONSE:

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.

 3.17.17
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MCB:gb
