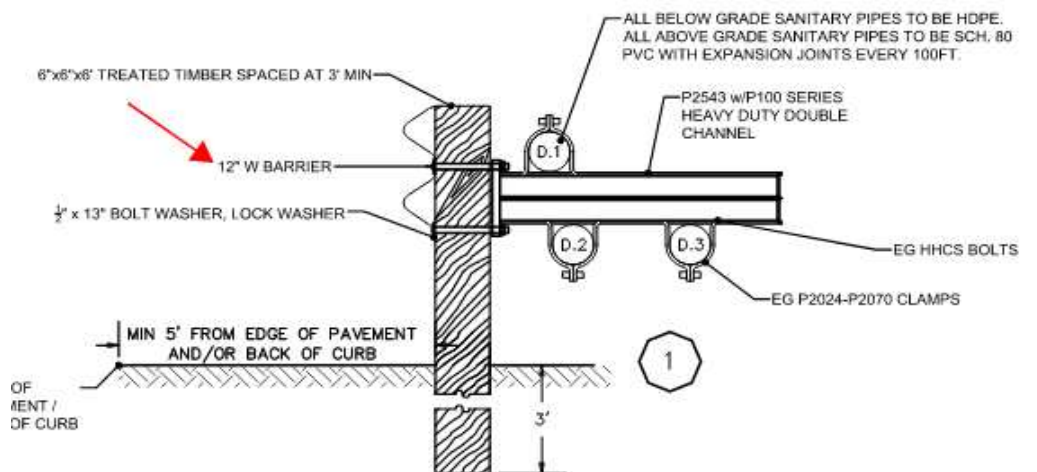


Attachment 1- Answers and Clarification Document

Bidders' Questions.

1. Can we get some clarification as to what a **12" W Barrier** is? See below.
 - a. The 12" W Barrier is a 12" wide metal beam that whose purpose is to serve as crash barrier and a visual cue to the driver. Specification of the Guard rail 12" W Barrier is reflected on sheet C-1402- AG Notes -Section 2 (b)
2. What are the 2 humps on the left side of the timber post at the top of the post?
 - a. The 2 humps on the left side of the timber post are the peaks of the 12" W Barrier that will stick out. See below image taken from google.



(AG)

ABOVE GRADE SUPPORT SYSTEM

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3. In the notes and specifications “Pipe Tracing and Marking”. The tracing wire is called out as 10 gauge stranded, insulated copper. In the other tender packages it was changed to 8 gauge. Are we to price for 10 gauge as specified or the 8 gauge as the other jobs?
 - a. Price the pipe tracing and marking wire for an 8 gauge wire. Changes reflected on Sheet C-1104 in Addendum 1-Rev. 2 drawings Dated 11/30/2021

4. At mile marker 73.00 there is a grease interceptor shown drawing C-1202. This grease interceptor is in-line of the sanitary force main. So my question is why is the grease interceptor here. Sewage does not go through grease interceptors. Only greywater is meant to go through interceptors not blackwater.
 - a. Grease interceptor has been removed from the package, Refer to Sheet C-1202 in the Addendum 1-Rev. 2 drawings Dated 11/30/2021

5. Lift stations. Did you buy the lift station fiberglass chambers already pre-piped? (all we to do is install the pumps and floats only)
 - a. Lift stations will be provided pre-piped. This tender package will install pumps and floats after lift station fiberglass lift chamber station has been installed, concrete ballasted and backfilled.

6. Is the lift station valve chamber attached to the side of the lift station or is it a separate item that needs installing separately?
 - a. The Check valve is a separate structure that will need to be installed separately. Please note that the vendor does not supply the pipe connecting the lift station structure and check valve structure. Make sure to include that in the bidding price.

7. Clarification is needed on drawing C-1201
 - a. Can we get scale the scale of this drawing? Need to figure out linear footage of gravity sewer piping as I do not see this in Annex B Price Breakdown.
 - i. This work is deleted in Addendum 1-Rev. 2 drawings Dated 11/30/2021 and This Lateral Work will be added to a different package.
 - b. (Question, is this trench detail 7 the same trench that goes from the LS-13 up to the Bermuda Triangle Club?)
 - i. This work is deleted in Addendum 1-Rev. 2 drawings Dated 11/30/2021 and This Lateral Work will be added to a different package.

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- c. The top pipe coming from building 101 (the beige building) and it says its 6" push on pipe. That pipe flows down to lift station 13 and enters in the station from the northwest direction. In between 110 and 105 is the pipe now labelled 6" HDPE and is shown installed as a gravity pipe line. Is the 6" HDPE pipe a misprint and it should be 6" push on pipe all the way to the LS-13?
 - i. This work is deleted in Addendum 1-Rev. 2 drawings Dated 11/30/2021 and This Lateral Work will be added to a different package.
- 8. On drawing C-1403 detail AG "Above Ground Support System" it is calling for the hardware and supports to EG electro galvanized. On the Notes and Specifications page C-1105 it is calling for stainless steel. Also there are talking about looking at certain details for the works to be done. Can we get some clarification on this?
 - a. All fittings used shall be stainless steel. Refer to Modifications in Addendum 1-Rev. 2 drawings Dated 11/30/2021
 - b. Mounting pipes section is deleted. It is referring to a different material and type of pipes to be mounted.

MOUNTING PIPES

- 1. WHERE POSSIBLE ALL PIPES TO BE SURFACE MOUNTED ON 7/8" STAINLESS STEEL UNISTRUT UTILIZING ANCHORS SIMILAR TO DETAIL 1E-5003.
 - 2. WHERE SURFACE MOUNTING IS NOT ACCEPTABLE DUE TO LOCATION OF PIPE, TYPE OF ADJACENT SURFACE OR POSSIBLE TRIPPING HAZARDS, MOUNT PER DETAIL 2C-0022.
- 9. After reading the Annex B, item 41 & 42 this is how I understand what needs to be done.
 - a. Item 41 is asking for 6000 linear feet of the 12" W Barrier for which I have now figured out what it is.
 - b. Item 42 is asking for 500 post connections. So when you divide the quantity of posts into the 6000 liner feet of guardrail that would put the post spacing at 12'-0" center to center.
 - c. The above ground sewer piping is to be SCH80 PVC pipe. The spacing on the PVC80 should not be any more that 8' spacing in normal conditions. But with this pipe being exposed to the extreme summer heat at least 140⁰ plus in the direct sun, then the spacing should be at least half that distance. So I am thinking that support posts should be double the amount. i.e. 1000 supports over 6000' linear feet of pipe.
 - i. Annex B is updated to reflect 2,000 LF of W barrier and 335 posts., Refer to Annex B-Addendum 1-Rev. 1_MEC_AW20211130 file
 - 10. Another question on the above ground supports. What is the pipes that identified as D.1, D.2, & D.3? The drawings do not tell us the pipe sizes. All the drawings tell us is

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what the service of the pipe is to be. When you go the trench section details it says 2 conduits either electrical or communication.

- a. Pipe labeling has been updated refer to sheet C-1401 for pipe designations, Addendum 1-Rev. 2 drawings Dated 11/30/2021
11. On drawing E-1101 “general notes” it says to refer to sheet E-001 for symbols and abbreviations. The electrical package is drawings E-1000 thru E-1102. Can we please have drawing E-0001 issued
 - a. Sheet E-001 has been added to the set, refer to Addendum 1-Rev. 2 drawings Dated 11/30/2021
 12. Where are we getting the individual live power feeds from to install into the lift stations pump control panels?
 - a. There is no electrical wire in the scope of this package.
 13. On all the electrical drawings there enlarged sections of what is happening within the trenching area. What do the “P” and “F” numbers represent on the conduits header and what do the numbers represent after the letters?
 - a. The enlarged area shows the connectivity from the conduit runs parallel to the main alignment connecting to the servicing structures offset from the main alignment.
 - b. “P” is short for Power “F” is short for Fiber. The numbering Identifies the items that conduit is connecting. The pulling of the electrical and conduit wires will be bid out as a separate package.
 14. In Annex B there is no talk of the electrical wiring that needs to install in the newly installed conduits/raceways. If this is true and the details on the electrical drawings show conduits going in and coming out of the handholes and the lift station control panels are also connected to the handholes, then how do we install the lift stations, test them for operation, and leave them in the ready position?
 - a. Electrical and communications wire pulling will be bid out as a separate package. The goal of this package with regards to the electrical and communications conduit is to provide the raceways to and from endpoints.
 15. Reading Annex B item 12, it says to supply and install 1900’ linear feet of 6” PVC80 pipe. Item 41 says to supply and install 6000’ linear feet of the 12” W Barrier. But if the item 12 is the above ground sewer piping and the barrier goes on the face of the posts to protect the above ground pipes, then why do we have 3 times the amount of W barrier when we are only installing 1 piece of W barrier on the posts? Where is the other 4000 liner feet of W barrier being used?
 - a. Item #12 and Item #41 have been updated, All Quantities Modification and changed are reflected in the Annex B-Addendum 1-Rev. 1_MEC_Aw20211130 document.

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16. At the above grade section of the installation (C-1203 & C-1202) one of the notes states the “6” sch 80 PVC for below grade sanitary force main, utility trench detail (9) shows 2 x electrical or communications conduits and one 6” sanitary sewer line – this area appears to be above grade please clarify.
- a. Above grade cross sections have been updated to reflect A.G. cross sections as per AG.1 and AG.2 details on C-1401, refer to Addendum 1-Rev. 2 drawings Dated 11/30/2021
17. On the TP 3A drawing C-1201 it shows gravity sewer piping and it’s a solid black line. On the legend to the right hand side of the drawing the proposed gravity sewer is a solid black line and it says NIC.
- a. All gravity sewer has been removed from this package. All sewer piping installed will be pressurized either along the forced main or from a lift station/ejector station connecting to the forced main. The flow line shows the direction that all sewage is being conveyed. The legend has been updated to reflect the changes, refer to Addendum 1-Rev. 2 drawings Dated 11/30/2021
18. In annex B items is items #53 thru 56 the same items as above in my question #17?
- i) If the answer to question 18 is yes then do we disregard the comment in the legend on this drawing and any other drawing?
 - a. Items 53-56 have been removed from the package, refer to Annex B-Addendum 1-Rev. 1_MEC_Aw20211130 document
19. On sheet C-2401 the sections show the dimension between the edge of the trench and the nearest conduit to be 1” and 3” for pipework. Is this correct? Usually this is 6” for everything.
- a. Cross sections have been updated to reflect a 6” separation from edge of trench to nearest conduit.
20. I have been looking through the Annex B for TP#3B and just have a query on the surfacing number on line item 30. The quantity doesn’t match the total trench length so is this for something specific? Perhaps the section within the airport limits?
- a. Correct, all asphalt surfacing throughout the island as a result of these packages will be conducted by the Department of Highways with the exception of the area within the airport limits. That area will be not be resurfaced by the Department of Highways, but rather by the awarded contractor.