



ADDENDUM NO. 2

Issue Date: December 21, 2023

Project Name: Phase II Cell 3 Landfill Segment 3 Expansion

ITB Number: 2024027

ITB Opening Date: **January 3, 2024 (Updated) 2:00 p.m.**

This addendum is being released to provide answers to questions received to date. The information and documents contained in this addendum are hereby incorporated in the invitation to bid. **This addendum must be acknowledged where indicated on the Bid form, or the bid may be declared non-responsive.**

General Comment

1. **An additional Liner Penetration Box has been added to the revised Bid Form. The location and details of the additional Liner Penetration Box will be noted in the final IFC Drawings to the successful bidder.**

Bidders Questions and Answers

1.	Can the CADD files of the grading plans be released to the Bidders? The CADD files may be downloaded from: IRC CELL 3 PHASE 2 PLANS BID 12-2023.zip
2.	Bid Item #10, Electrical Leak Location Survey – There is no spec provided for this work. Please provide the specifications for the leak location survey. Specifications for the Electrical Leak Location survey or testing were included in Section 02770 – Geomembrane specifications. Additional requirements are included in Rev. 1 of the Geomembrane specifications.
3.	Detail 3 on plan sheet 10 shows the temporary intercell berm and rain flap between cells 3 and 4. The detail appears to show that the subgrade has been built to the elevation required to construct the rain flap and daylight the cover soil into future Cell 4. Has the adjacent future Cell 4 subgrade been built up to allow (especially on the south end) for the transition as shown in this detail? Yes, the subbase for Cell 3 liner was extended approximately 50 ft into Cell 4 to allow construction of the Temporary Intercell Berm with Rain Flap as shown on Detail 3.

Addendum 2

4.	Can the future Cell 4 area be utilized for material laydown and soil stockpiling during construction of this project?
	Yes, but Contractor will be required to restore the area into prior existing condition upon completion of construction.
5.	Will it be permissible to dispose of soil excavated from exposing the Cell 2 and 3 tie-in onsite? If so, will there be any fees associated with the disposal? Can the material be taken directly to the working face of the landfill without being weighed?
	Yes, it is permissible to dispose materials and the Owner will cover disposal fees. However, the Contractor must take all materials to be weighed at the scale house before disposal.
6.	Can roll cores, liner scraps, and other construction related debris be disposed of onsite? If so, will any fees or weighing of this material be required?
	See response to Question 5
7.	For the "Drainage Ditch, Access Road and Entrance Road" bid items (47, 48, and 49) is it correct to assume that the road embankment portion will be done by others prior to the start of our work?
	Yes, the scope here is to construct access road including the culverts.
8.	Will the Phase I work for Cell 3 be completed prior to the start of our work?
	Yes
9.	Will it be allowable to construct a temporary access crossing into the future Cell 4 area from the southeastern corner to better facilitate access and delivery of materials?
	An access road will be completed on the southwestern corner of Cell 4 before Phase 2 work begins.
10.	Specification Section 02770, Geomembrane, Item 1.04 Warranty, states to "Furnish a 20-year written warranty against defects in materials." This will be a 20-year pro-rated warranty, correct?
	Yes
11.	Please indicate the office trailer setup location for this project.
	The location for an office trailer has been added to Sheet 3 of the attached revised Construction Drawings. The Site does not have existing hookups for a trailer. There is potable water supply available but will have to be plumbed to the trailer, as well as electrical service on the pole, the Contractor should consider the cost of a transformer and power installation to the trailer in their bid. There is no sewer connection available.
12.	Bid Items #3A, Intercell Separation Berm, and #3B, Temporary Intercell Berm with Rain Flap, fall under Bid Item #3, General and Structural Fill. The details for these berms (Details 3 and 5) on plan sheet 10, however, appear to show these berms being constructed with protective cover sand. Should these berms be constructed with general fill or protective cover sand?
	These shall be constructed with protective sand as shown on the drawings. These items have been moved to Item 4 as 4B and 4C of the Revised Bid Form.

Addendum 2

13.	Bid Item #3B is described as “Temporary Intercell Berm with Rain Flap.” Would the “rain flap portion of this item not be included for payment under Bid Item #12, Geomembrane Flap?
	Bid Item #3B (now #4C) is only for the protective soil component of the rain flap. The geomembrane component is part of Bid Item #12A.
14.	Will the anchor trench excavation and backfilling for the temporary intercell berm and intercell separation berms be measured and paid for under Bid Item #13, Anchor Trench?
	Yes, these have been included in Bid Item #13 and quantities adjusted accordingly. Please refer to the revised Bid Form.
15A.	Will the anchor trench around the perimeter of the rain tarp be 1’x1’ since it is being dug into the 2’ protective sand layer?
	Rain Tarp should be 2’ x 2’, Sheet 10, Detail 5 along the northern and eastern ends of the rain tarp limits of Cell 3. On the western and southern limits, a 1’x 1’ temporary anchor trench or Engineer-approved equivalent may be used provided sufficient ballast is provided.
15B.	Is this anchor trench considered incidental to Bid Item #46, Rain Tarp?
	No
17.	Detail 4 on plan sheet 10 shows the primary and secondary geomembranes being welded together in the permanent anchor trenches. What Bid Item should the cost of this welding be included under?
	This should be part of Item # 12B of revised Bid Form.
18.	It was mentioned during the pre-bid meeting that we would be allowed to use the southeastern access gate for deliveries to the site. It was also stated that we’d need to perhaps add some additional erosion control measures to protect the adjacent drainage canal. Please stipulate what erosion control measures would need to be applied.
	There is a stormwater pipe inlet at the southern access gate that will need protection. There is also a perimeter ditch on the north and canal on the south that would need erosion and sediment control measures.
19.	The Specification Section 01025 Measurement and Payment included in the bid documents provided for this bid appears to be incomplete and does not pertain to this project. It references only 8 bid items which do not correspond with the sixty-five (65) total bid items listed on the Bid Form. Additionally, there are other contradictions between this specification section and the Bid Form. For instance, Part 1.03.A.6 caps the mobilization/demobilization at 10% (ten percent), however the Bid form caps mobilization/demobilization at 5% (five percent). Furthermore, there are no references to any of the bid items associated with the Leachate Collection & Detection System. Please provide a revised Measurement and Payment section that is relevant to this project.
	Please refer to Measurement and Payment Specification, Rev 1
20.	Specification Section 02715 High Density Polyethylene (HDPE) Pipes and Fittings, Part 3.05.C.1 states “Inspect fusion joints for evidence of excess or insufficient bead size, contamination,

Addendum 2

	offset, or any other evidence of inadequate joining. The surface of the HDPE pipe shall be clean at the time of inspection. Wipe or wash the HDPE pipe surface if surface contamination inhibits inspection.” Will this inspection occur during pre-welding or during the installation of all HDPE pipe? This inspection process could hinder installation, so will this inspection be performed as the pipe is being installed, which will allow us to backfill as soon as possible?
	Inspection will be performed by the CQA Consultant in coordination with the HDPE Pipe Installer as detailed herein and in the CQA Plan and in accordance with the state of practice.
21.	Are we required to separately hydro test both the dual contained carrier and containment pipes?
	Yes and at different pressures for the carrier and containment pipes.
22.	Specification Section 11207 Submersible Sump Pumps, Part 1.01.A states, “This Section identifies the minimum requirements for the purchase and installation of the simplex submersible pump station for the leak detection system and a duplex submersible pump station for the leachate collection system as shown on the Construction Drawings and as specified herein.” There does not appear to be a “duplex submersible pump station” shown on any of the provided plans. The plans specifically show and call out a single pump and control panel for the Leachate Detection System, but it does not show or call out any pumps or control panels for the leachate collection system. The plans also refer to the leachate collection system as a gravity system. Please clarify whether or not there is indeed a duplex submersible pump station for the leachate collection system. If there is, please provide plans and details of this system to allow us to properly estimate the cost and effort associated with furnishing and installing the system.
	There is no duplex submersible pump station, there is only a sump pump in the LDS manhole.
23.	If there is a duplex submersible pump station for the leachate collection system, will there also be a turbine flow meter and totalizer associated with this system? If so, please provide plans and details showing the arrangement of the flow meter and totalizer, along with the associated piping arrangement.
	Please refer to the response of Question 22.
24.	If there is a duplex submersible pump station for the leachate collection system, please provide revised electrical and lightning protection plans and specifications that include this additional pumping system.
	Please refer to the response of Question 22.
25.	If there is a duplex submersible pump station for the leachate collection system, are we to assume that the existing electrical power for which we are to tie into is adequate enough to power both the single-phase leachate detection pumping system and the three-phase duplex leachate collection pumping system? If there are any modifications to the existing electrical power supply to allow for proper operation of both the pumping systems, will the County perform those modifications themselves? Will those modifications be completed prior to our mobilization to begin the project?
	Please refer to the response of Question 22.
26.	Please clarify whether or not we are required to provide any spare parts for the pumping system.
	Spare parts for the pumping system are not required.

Addendum 2

27.	There is a call out on Drawing No. 4, on the north end of proposed Cell 3 that states “Leachate Collection System Cleanout”. However, the leader for this callout does not point to anything. Is there supposed to be a cleanout at this location?
	Please refer to the revised Construction Drawings
28.	Drawing No. 14 provides a detail depicting the layout of the LCS and LDS manholes and a section for the LDS manhole. However, there is no section for the LCS manhole. Please provide a section of the LCS manhole with the same level of detail provided for the LDS manhole.
	Please refer to the Indian River County typical details on sheet 16 of the revised Construction Drawings
29.	Detail 14 on Drawing No. 14 shows the LCS manhole and the LDS manhole. The detail specifies the outside and inside diameters for the LCS manhole, but it does not provide the outside nor inside diameters for the LDS manhole. Please specify the outside and inside diameters of the LDS manhole.
	The dimension of the wetwell inner diameter is located on Sheet 14, Detail 14. The wall thickness is a minimum 8 inch. Please see the response to Question 28 above.
30.	Detail 14 on Drawing No. 14 instructs us to provide additional reinforcing around openings in slab and references Detail 19 on Drawing No. 15. However, this referenced detail is a detail of the proposed bollards and does not detail any reinforcing. Please provide a detail of the additional reinforcing around openings in slab as referenced.
	Please refer to the revised Construction Drawings
31.	Note 23 on Drawing No. 14 states “Precast wetwell shall be designed by a professional engineer registered in the State of Florida...”. Is the wetwell shown in Detail 14 and Section A not the designed wetwell? We do not have time prior to submitting our bid to have this structure engineered to determine its exact construction or cost. Nor are we certain that all bidders are bidding on the same structure to allow for adequate price comparison of the respective bid item. Please provide a detail of this structure that is approved by the County and meets their needs so that all bidders are bidding the same item
	Detail 14 and Section A as shown in the Construction Drawings may be used to bid the precast concrete wetwell. The dimensions as noted should be used for the final structure.
32.	Are there different details for both the Leachate Collection System Cleanouts and the Leachate Detection System Cleanouts? Or, is there only one type of cleanout for both the Leachate Collection System and Leachate Detection System? If there are different types of cleanouts, please provide details for all types of cleanouts.
	The details for the LCS and LDS cleanouts are the same.
33.	Drawing No. 7 calls out the Leachate Collection System Cleanout with “fabriform riprap”. The only cleanout detail that appears to be provided is the Leachate Detection System Cleanout, Detail 11 on Drawing No. 12, which specifies “4’ x 5’ x 5” fiber reinforced concrete collar”. Please clarify whether we are to provide fabriform riprap or fiber reinforced concrete collars at each cleanout.

Addendum 2

	Please refer to the revised Construction Drawings.
34.	Drawing No. 7 calls out the Leachate Collection System Cleanout with “fabriform riprap”. Bid Item 26B on the Bid Form states, “Fabric Formed Riprap”. Do these references to fabriform riprap refer to fabriform revetment or fabriform concrete bags? Please clarify which of the two different products we are to install. Additionally, please provide the specifications for whichever product is to be installed.
	Please refer to the revised Construction Drawings.
35.	Bid Item 33 on the Bid Form states, “Concrete Slab for Control Panel”. We can only find one (1) control panel to be installed on this project and it is shown near the LDS Manhole on Drawing No. 14, which is also shown to be installed within the concrete slab for the LDS and LCS manholes. We cannot find another location for the slab referenced in Bid Item 33. Please clarify where this pad is to be located.
	The same concrete slab will be used for the Control Panel and LDS and LCS manholes.
36.	Are we allowed to dispose of water from jet cleaning in any nearby or adjacent ditch or swale? Or, does it require us to haul and dispose of at another location on or off site?
	Clean water from jet cleaning can be discharged to the nearby ditch or swale. Debris in the clean water shall however be removed and disposed of as discussed for waste from construction activities.
37.	How does the leachate collection toe drain terminate on each end? It does not appear to tie into any system and it only requires an end cap on each end. Does it connect to any other system?
	The toe drains will connect to the LCS corridor pipe as shown on Sheet 4 of the revised Construction Drawings.
38.	Does Bid Item 35 – LDS Pump Station Sump Pump, listed on the Bid Form, include work associated with both the pumping equipment and wetwell or just the pumping equipment only? If the pumping equipment only, in which Bid Item do we include the work associated with furnishing and installing the wetwell?
	This is for pumping equipment and wetwell as shown on the Construction Drawings.
39.	Are we required to pin sod?
	Yes, for those installed on slopes by using garden staples, long nails, or pegs to hold the strips in place – see Section 02930, Rev. 1
40.	Are we allowed to install rolled and/or palletized sod?
	Rolled and/or palletized sod may be used as long as all specification requirements are adhered to.
41.	Will the Dura Skrim be continuously installed from the first intercell separation berm (closer to the sump) over the 2nd intercell separation berm and terminated into an anchor trench at the South end of the cell?
	Yes

Addendum 2

42.	What are the limits of the rainflap? Bid form indicates it'll be 800 LF, but looking at the plans and details, it should be running along the eastern side of the cell which measures approximately 1,285 LF. In addition, looking at details 3/5 and 7A/4, the flap should be around 13 LF wide, but the area listed on bid item 12.A would indicate it's much larger than that. Can you confirm the area the rain flap will be covering?
	The geomembrane rain flap on Drawing 4 and Detail 3 of Sheet 5 shall be along the eastern end of Cell 3 into Cell 4 and is shown as Item # 12A on the Bid Form.
43.	Please provide clarification on what materials will need to be stockpiled on site within thirty days of NTP? Does this include Electrical panels which normally include longer lead times?
	Please see submittal requirements in the Specification sections.
44.	Does the owner expect to stockpile all sand cover material and rock on site in the first thirty days?
	No, but schedule should include continual supply and placement of materials without delays.
45.	Can the owner outline a stockpile location on site that can be used for the duration of the project?
	Cell 4 area can be used to stockpile geosynthetics and other areas south of Cell 3 beyond the concrete crushing areas can be used to stockpile other material.
46.	Will liquidated damages be applied to the 30, 90- and 120-day milestones individually, and will they compound if so?
	Liquidated damages will apply if substantial completion is not reached in 90 days and final completion is not reached in 120 days. Section 3.3 will be updated in the final Agreement to reflect that the liquidated damages will not be compounded. The liquidated damages will be \$450 per day from day 91 to day 120. Then the liquidated damages will be \$800 from day 121 to beyond. In no case shall liquidated damages go beyond 91 days of the original final completion date.
47.	What equipment is expected to be onsite in the first thirty days? Equipment specific to leachate stone, electrical install etc would not need to be mobilized to site, and would be taking up room for stockpile of materials and be an extra expense to be onsite and unutilized for the duration of the project until it is needed.
	Contractor shall provide equipment consistent with construction schedule and in accordance with the Specifications. The Owner will not accept delays due to unavailability of equipment to complete the next work item.
48.	Please provide the daily cost for the Owner third party consultant fees that will be charged to the contractor in the event liquidated damages are incurred.
	The third party consultant fee should be considered as a lump sum of \$10,000 to recruit and contract assuming it takes 30 days to do so. Assume liquidated damages of \$10,000 over 30 days, which would be approx. \$340 per day.
49.	Is the contractor allowed to begin aspects of work prior to the 30 day material procurement period outlined in the plans?

Addendum 2

	Yes as long as that's feasible and would not cause delays or disturbance work
50.	Please provide a measurement and payment section that matches the bid item schedule. Please refer to the response to Question 19.
51.	Please clarify with a measurement and payment item what the 800 LF anchor trench bid item does and does not apply to. This is for the excavation and backfilling the geosynthetics in the anchor including welding the primary and secondary geomembranes. Material quantities are included in the respective items.
52.	Electricians have advised that the panel on this project and other components may have lead times in excess of 6 months? This will not fit the 30 day material procurement timeframe or the overall timeframe for project completion please revise project durations, or consider pushing the NTP to allow for proper procurement after notice of award is given. As discussed during the pre-bid meeting, timely completion of Cell 3 construction to allow placement of waste is critical to the County. Bidders should provide their bids including schedule as required. The Owner will address this issue if it becomes a problem during construction.
53.	On page 02770-19, in Section 4.a. of the specification, this project is requiring bare liner testing of the primary geomembrane. The currently proposed cross section does not contain an electrically conductive layer under the primary geomembrane. Is the primary geomembrane going to be conductive-backed to enable electrical leak location testing? If so, are the "Leak Location Liner" installation guidelines going to be followed in order to enable bare liner testing methods other than the Spark Testing method (ASTM D7240)? Or is this requirement for bare liner testing of the primary a typo and the primary geomembrane is supposed to be tested after cover material placement? Or is this requirement for testing the primary geomembrane a typo and the secondary geomembrane is supposed to be tested while bare? The Electrical Leak Detection testing shall be performed only on the primary geomembrane after placement of the 24-in. thick liner protective layer soil only. Specification Section 02770 has been revised accordingly.

- Attachments**
 Specifications
 Drawings
 Bid Form