

February 6, 2019
File No. 3066.09

Response to Questions from Bidders (Addendum #2)

- 1. Page 4 of 24 of the drawing set entitles “Secondary Base Grading Plan” states, “Overhead electric to tie into existing power supply located near existing Phase I-III leachate manhole #1 and secondary witness tank (to be coordinated with Eversource prior to construction).” Please confirm this work is not part of the Contract and will be completed by the Owner prior to notice to proceed.**

This work is part of the contract and the contractor is responsible for coordinating with Eversource to bring power to the proposed pump building.

- 2. Is a bid bond required? If so, please indicate the percentage that is requested.**

A Bid Bond will not be required for this project

- 3. Is there an existing SWPPP plan for the site that the Contractor will have to adhere to?**

Yes, there is an existing SWPPP for the site; however, it is specific to landfill activities, not construction. The contractor is expected to adhere to the stormwater controls required by the plans and specifications. The selected contractor shall be responsible for developing a Construction SWPPP.

- 4. Contractor is unaware of how the project is funded (General Condition Page 23 of 53, 6.09 Laws and Regulations, D), please provide the appropriate wage rates, either the Davis-Bacon Prevailing Wage Rates or City of Nashua Prevailing Rates for Public Works, for the project?**

There are no prevailing wage rates for this project.

- 5. If the final design report is submitted on July 1st, please provide the appropriate review period a contractor shall assume that it will take NH DEP to approve the permit and to allow unrestricted access to complete the cell.**

A response from NHDES is expected within 30-days of the submission of the groundwater separation report, which will establish the base grades of the landfill.

- 6. Please confirm that the contractor has been provided the most up-to-date pre-existing conditions survey with the bid documents. Drawing 1 of 24 states that base map is from 2010.**

The pre-existing conditions shown on Drawing 1 have not changed substantially since 2010.

- 7. Please confirm the boundary line for bid item number 24 topsoil and seeding. Contractor takeoff is closer to 7 acres.**

See attached Topsoil and Seeding Figure and revised Schedule of Values.

- 8. Note 1 on detail 2 on sheet 20 of 24 says to line pond 6 and the forebay with 12-inches of screened till. Please confirm the limits of detention pond 6 and the forebay to determine the limits of the screened till.**

The limit of the forebay and Pond 6 is the elevation 210-foot contour. Pond 6 and its forebay is estimated to have a surface area of about 28,700 square feet.

- 9. Note 1 on detail 2 on sheet 20 of 24 says to remove the sediment within pond 6. How much sediment is anticipated to be removed from pond 6?**

The depth of built up sediment within Pond 6 is unknown. For this bid, the bidders shall assume removing sediment in the pond that is no more than 12 inches thick.

- 10. Please confirm that the secondary sand location on sheet 4 of 24 is accurate. The secondary sand hatching shown on sheet 4 conflicts with the liner system details on sheet 11 of 24. Is the 1' sand layer across the entire cell?**

Secondary Sand shall only be placed within areas of the liner system that are sloped at 2 and 4 percent as shown by the limits on Sheet 4 of the Construction Drawings. Areas of the liner system sloped at 10 percent and 2(H):1(V) do not require Secondary Sand.

- 11. Please provide the as-built plans for the existing litter control fence so that contractor can appropriately bid the removal and re-installation.**

See the attached Structure As-built Plan, dated 3/31/2009 for the location of the litter fence, and the description of the litter fence installation in the Phase II landfill QA/QC report. Field measurements confirm that the posts are spaced 50 feet on center.

- 12. For bid Item #16, shall the contractor anticipate coming into contact with leachate or will the leachate within the cell be pumped down to complete the work?**

It is not anticipated that the contractor will encounter leachate in making connections to the Phase II leachate collection system. However, the contractor must take appropriate worker safety measures while performing the work in case leachate and/or landfill gas is encountered.

- 13. At the pre-construction meeting, it was discussed that stumps and roots from the clearing and grubbing would remain onsite. Please confirm the location where the contractor shall stockpile stumps for further use by the Owner.**

An area to stockpile stumps and roots will be available in the vicinity of the compost windrows on the northeastern portion of the site.

- 14. Please designate the area where all topsoil shall be stockpiled as described in 02100 - 3.1E.**

An area to stockpile topsoil will be available in the vicinity of the compost windrows on the northeastern portion of the site.

- 15. If there is an under-run of topsoil (when comparing the stripped area to the placement area) can the Contractor utilize the topsoil from the composting area onsite?**

The City utilizes the compost for daily landfill cover and other City projects. It is therefore not available to supplement topsoil for this project.

- 16. At the pre-construction meeting, it was noted that a large stockpile of material (potentially clay) was in the middle of the Phase III area. Is this material included on the existing conditions plan?**

The stockpiled soil material is more adjacent to the landfill footprint, rather than in it. It is located within the proposed slope on the eastern side of the Phase III footprint. For this bid, the contractor shall assume that 2,500 CY of Screened Till is available within this area and the remaining Screened Till required to complete the project needs to be imported. The attached Schedule of Values was updated accordingly.

- 17. Is there any physical testing of the clay material onsite?**

There is no physical testing data for the on-site clay material. For this bid, contractors shall assume it is suitable for use as Screened Till.

- 18. At the pre-construction meeting, it was noted that the selected contractor would have to handle and transport stockpiled debris and oversized rocks located within the Phase III limits. Where shall the contractor move this material? How does the contractor get paid to move this material? Is there an estimated volume?**

Stockpiled debris and rocks can be moved to a designated area on the northeast portion of the site. There is no estimated volume for this material. Payment for this work is covered under Bid Item #4, Grubbing and Topsoil Removal.

- 19. Specification section 02200, 3.6D states, "Subgrade for geosynthetic placement shall be proof-rolled by at least (4) passes of a 10,000-pound vibratory, smooth-**

drum roller to demonstrate strength.” This is will not be possible along the slopes for safety issues, can contractor plan to smooth screened till area with an excavator bucket if compaction is met?

The City encourages the bidders to consider using construction methods and equipment capable of meeting the design intent. Alternative means of compaction may be presented in the bid and will be considered by the City provided there is sufficient justification/documentation for its use and ability to meet the intent of the design.

20. Does the Owner have an Environmental Monitor that is familiar with the site or has been previously been utilized onsite?

The City typically does not use an Environmental Monitor for landfill construction projects. However, the City will retain an engineering firm familiar with the site to provide construction quality assurance services during construction.

21. Who is the professional survey company that is utilized by the Owner?

There are several professional survey companies who have previously worked on the Four Hills site. They include, but are not limited to Hayner/Swanson, Inc. and WSP USA, Inc., both located in Nashua, NH.

22. Can HDPE piping be tested with air in lieu of hydrostatic testing?

Yes, air testing is acceptable. Specification 15210 will be revised to include air testing requirements and will be included in Addendum #3.

23. Is there a power drop where contractor is to locate the construction trailer?

There is a power drop with a meter and circuit breaker panel used by previous construction trailers located along the main haul road adjacent to retention pond #2. The power drop has not been used in several years; therefore, the City does not guarantee the viability of the power drop. The contractor is free to evaluate alternate locations for the construction trailer and power connection if this location is not convenient.

24. Where can contractor fill water truck for dust control?

There two hydrants near the landfill office building that are available for filling a water truck.

25. Please confirm the unit for 27B is LF and not LS.

The unit for 27B is LF. See the attached revised Schedule of Values.

26. For Alternate bid Item A27, is the contractor to setup/install the portable litter fence?

If there are components of the portable fence to be installed or set-up, then yes. The portable fences should be delivered directly to the landfill face ready to use.

27. Detail 4 on sheet 21 shows some dimensions for the drain manhole. Please provide additional information about the drain manhole including the rim, inlet and outlet elevations. The size of the structure in the detail does not have the height of the structure.

Inlet and outlet elevations are included in the culvert schedule for C-1 and C-2 on Sheet 21 of the Construction Drawings. The rim elevation shall be 229.0 feet and the total interior height of the structure shall be a minimum of 5 feet.

28. Detail 2 on sheet 12 of 24 shows the 31" mid-splice beam guardrail. The detail does not show what should be on the end for the guardrail NHDOT typically requires terminal end anchorages or MASH tangent end treatments. Are one of these to be used?

The contractor shall install Type G-2 terminal units for proposed guardrail.

29. Bid Item 7 section H: states Furnishing and placing drainage sand to construct interim stormwater berms is incidental to this bid item but it does not appear on any of the drawings?

There are no interim stormwater berms proposed as part of this work.

30. There is no survey specification included. Can contractor perform their own survey?

Yes.

31. Does the geomembrane panel drawing need to be stamped by a PLS?

No.

32. On previous projects, have contractors screened the till from an onsite source?

Refer to question #16.

33. Is it the intent of the contract to import the screened till?

The intent is to utilize on-site soils. The contractor shall import soil as necessary. Refer to question #16.

34. What size diameter are the PVC wells to be decommissioned and the wells to be extended?

The boring/well logs for the wells to be decommissioned are attached. PVC well casing diameters for the wells to be raised are as follows:

Wells MW-110S & R = 2" diameter;
Wells MW-111S & R = 1.5" diameter; and,
Well B-4 = 1.5" diameter.

35. Please provide a detail on how the wells are to be extended.

The NHDES does not provide guidance related to well extensions, however, standard construction practices would still apply to the materials used for the extended wells (i.e., no glues or solvents, use of lockable cap, maintain seal at surface, etc.). Attached is a schematic provided by NHDES. The contractor would be required to remove existing surface completion components and extend the existing PVC pipe without the use of glues or solvents. Contractor can use a variety of couplings including, but not limited to, slip couplings, Fernco flexible couplings, or compression couplings. Soil placement around the extended PVC pipe shall be performed with care and typical surface completion components shall be installed at the proposed finish grade.

36. Please confirm the portable litter fence shall be 50' lengths. Manufacturer said that the fence comes in 40' lengths.

Either 40-foot or 50-foot lengths for the portable litter fence are acceptable.

37. Page 3 of the Bid Form Section 8.01 (B) refers to "Bid Bond". Will a bid bond be required? If so, will a form be provided? What will be the required percentage?

A Bid Bond will not be required for this project.

38. Can boring/drilling logs be provided for the existing monitoring wells and piezometers that need to be decommissioned?

Yes, the boring/drilling logs for the wells and piezometers to be decommissioned are attached.

39. The bid item definition for Item 7h-Primary Drainage Sand, spec. sheet 38 of 255, states that furnishing and installing of drainage sand for interim stormwater berms is incidental to the item. Where are the stormwater berms called out? Can you please provide a detail for the berms?

There are no interim stormwater berms proposed as part of this work.

40. On page 17 of 24 on the 11 x 17 plans, tilted SUMP RISER BUILDING ELEVATIONS AND SECTIONS, there is a written section sub-titled Building Components. Under the Building Components section, a Sparling Instrument 656 Tigermag flanged magnetic flow meter is specified. Can a flanged 2 inch Badger Magnetic Flow Meter, M2000 be substituted?

Yes, as long as the Badger flow meter is a functional equivalent to the specified Tigermag flow meter.

41. **On page 17 of 24 on the 11 x 17 plans, tilted SUMP RISER BUILDING ELEVATIONS AND SECTIONS, there is a written section sub-titled Building Components. Under the Building Components section there is another section sub-titled Primary/Secondary Pump. An EPG 1 H.P. 220V pump is specified. Can an equivalent QED pump be approved as equal?**

Yes, as long as the QED pump is a functional equivalent to the specified EPG pump.

42. **On drawing 17 of 24, detail 5, Sump Riser Building Piping Isometric drawing, the secondary riser, primary riser and clean out riser do not have flange adapters fused to them. On drawing 18 of 24, detail 1 & 3 again show no flange adapter fused to the end of the pipe or no note describing an 18" flange adapter or back up ring. The drawings currently state that the flange is made of a 1" thick piece of HDPE flat stock and cut to the diameter of the 18" HDPE pipe. It would be more cost effective for the manufacturer of these flanges & The City of Nashua if these flanges were an off the shelf flange that was traditionally bolted to a flange adapter & back up ring fused to the leachate and cleanout risers. Also, a flange adapter fused to the end of each of the three risers would assure a long term positive connection to the risers. I could see a scenario that after multiple times of taking the currently drawn flanges off and on, that the holes could strip and there not be a solid connection to the leachate risers.**

Contractors may price the bid item assuming that the detail allows for an off the shelf flange, bolted to a flange adapter & back up ring fused to the leachate and cleanout risers. Please note this option in the bid.

43. **I was just wondering how you would like to handle the Nashua Electric control panel for the primary, secondary, and clean out riser pumps. I don't have any kind of ladder logic line drawings to get an estimate on the control panel. Do you think you will have some kind of print or logic document soon? QED needs this logic to complete the quote for this project.**

A proposed logic document for the proposed control panel will be included in Addendum #3 that will be posted during the week of February 11, 2019.

44. **Reference: 15210, 2.4; 15210 3.2 C2; Sheet 10, Cleanout Parts List,**

Comment: The drawing indicates that epoxy coated 304 fasteners, DI rings and neoprene gaskets are required. Under Section 15210 High Density Polyethylene Pipe, Fittings, and Appurtenances Part 2.4, 1/8" thick Viton Gaskets are called out. In the specs under flange joining carbon steel backing rings and galvanized nuts and bolts are called out. Stainless steel typically needs no additional coating. In addition, under Section 15210 Part C-2 and C-4a it is referenced that

below ground backup rings are to be made of Carbon Steel while above grade backup rings are to be made of Zinc-plated steel.

Recommendation: Please clarify backup ring, gasket, and hardware requirements.

A revised specification will be included in Addendum #3 during the week of February 11, 2019. Please prepare bids as follows:

- All gaskets shall be Viton.
- Below-grade joint hardware shall be Type 304 stainless steel.
- Above-grade hardware shall be zinc-plated unless otherwise noted.
- Hot-dipped galvanized fasteners are not allowed.
- Convoluted stainless steel backup rings shall be used for joining HDPE pipes below grade, and epoxy-coated carbon steel backup flanges shall be used above grade.

45. Reference: 15210, 3.2B.12.

Comment: Under Section 15210 Part 3.2 B-12 It is states “all interior butt fusion weld beads shall be removed from the pipe (i.e., all HDPE pipe must be de beaded) in accordance with the manufacturer’s recommendations”. Does this include the debanding of all perforated pipe as well as the solid pipe?

Perforated pipe is not required to be debanded.

46. Reference: 4” HDPE Force Main

Comment: Can you clarify the SDR of the force main. By default, it references SDR 17.

Recommendation: Please clarify force main SDR.

The 4-inch diameter HDPE force main shall be SDR-17.