

## Contractor Questions

### P18-005: Cottonwood Ranch Broad-Scale Recharge Project

Version 3, Updated 9/13/18

Questions from versions 1 and 2, are labeled as a – h, and questions new to version 3 are numbered 1 – 35.

**a) Is there a soils report available?**

*The Geotechnical Report can be downloaded from the Program's website at the location of the bid documents.*

**b) Are there boring logs available?**

*Same as above.*

**c) Is there any drawdown data available?**

*Data from a pump or drawdown test is not available. However, historical groundwater data can be downloaded from the Program's website at the location of the bid documents.*

**d) What is the timeframe for construction? There is no date listed in the Agreement.**

*Please refer to Addendum No. 1 dated 9/7/2018 on the Program's website for details. Construction is expected to begin in early to mid-October. The date of substantial completion has been set to May 1, 2019 and the liquidated damages fee has been increased from \$500/day to \$2,000/day.*

**e) Are electronic files available for a takeoff?**

*No, bids shall be prepared using the quantities provided on the bid form. Electronic files of the proposed project will be provided to the successful bidder for use in construction staking.*

**f) Are there any historical groundwater reading available?**

*The drillers recorded groundwater if encountered during and 24-hours after drilling, in the bore logs. Bore logs are provided in the Geotechnical Report. In addition, historical groundwater data can be downloaded from the Program's website at the location of the bid documents.*

**g) Is temporary seeding required?**

*Yes. Temporary seeding is required per the SWPPP and plans and specifications.*

**h) Is this project taxable?**

*Yes. Taxes must be paid for materials on this project. Program needs to receive invoices for materials showing taxes paid.*

### Questions new to Version 3

The following questions for the Cottonwood Ranch Broad-scale Recharge project were received between the Pre-Bid Meeting response issued September 7<sup>th</sup> and the September 12<sup>th</sup> question deadline.

**1. Can HDPE be used for the underground electrical raceway installation?**

*Yes. Refer to Addendum #2, Item #2.*

**2. Specification section 15103 Butterfly Valves, paragraph 2.4 A says to refer to the drawings or valve schedule for information on the type of actuator required. A valve schedule and specification for the actuators was not provided. We need to have a specification in order to bid the 30" Butterfly Valves.**

*Refer to Addendum #2. Section 15100 - Valves – Basic Requirements provides the specifications. Valves are identified on the drawings.*

**3. There are two (2) main suppliers for Rock Rip Rap in Nebraska. One (Kerford Quarries) will NOT bid this project because of the specification and Martin Marietta has bid standard NDOR Type 2 riprap, however excluded the "Source Quality Control" as called for in specification section 02271 RIPRAP, paragraph 2.2. If this requirement has to be met they withdraw their proposal. Can you tell me if they will have to adhere to this specification or recommend another quarry that can meet this spec?**

*L.G. Everist Stone, Dell Rapids, South Dakota as provided materials meeting these specifications for recent project in Nebraska.*

**4. We need to have a specification for the 24-inch "Inline Water Control Structure" as there are available options.**

*Install Agri-drain, In-line Water Level Control Structure 24-P or equal as stated in the build note on Sheet C-05. "Or equals" are acceptable.*

**5. Is there a written spec for the Rubicon gates other than the detail shown in the plan?**

*No, the manufacturer's representative indicated the Rubicon model number stated in the build note on Sheet C-14 was sufficient to provide the required gates. See related question #24.*

**6. Is there a chart of upstream/downstream water levels and expected flows that we should review to verify expected performance?**

*Provide required Rubicon gate as described in the Contract Documents. Performance verification not required. See related questions #5 and #24.*

**7. The gates have two primary automatic flow controllers – either flow (they will adjust as needed to maintain a flow rate through the gate) or level (they will adjust as needed to maintain a level either upstream or downstream of the gate). Do we know which mode will be needed?**

*Rubicon gates are capable of operating in either mode. See related questions #5 above and #24 below.*

- 8. Is there a SCADA plan for this project, and if so what kind of radios are needed? We want to make sure communications go as expected.**  
*No. A SCADA system is not required for this project. Refer to Sheet C-27 for motor operated valve control narrative.*
- 9. Do the riprap quantities on the bid form include the riprap at the end of the “Energy Dissipators”?**  
*No. The cost to install riprap at the end of the energy dissipators in accordance with the detail shown on Sheet C-24 Energy Dissipator, is to be included with the water supply pipeline system unit cost.*
- 10. What is the gradation for the “Granular Fill Material” within the flume structure?**  
*Either of the subdrain filter material gradations provided in Section 02512 Subdrain Filter System, Part 2 - Products are acceptable for the granular fill material within the flume structure. See question #30.*
- 11. Are the observation towers that are located throughout the project supposed to be preserved?**  
*Yes. The observation towers are part of a long-term photographic project and will need to remain in place.*
- 12. Can we swath and bale the excavation areas and use that for mulch on the project?**  
*Yes. Mulch must comply with Section 02930 – Seeding and Mulching, Part 3.3. Top soil must comply with Section 02110 - Site Clearing and Topsoil removal, Part 3.3. Also Refer to Sheet C-19 for locations of 30-foot buffer zone that must be preserved as part of the SWPPP.*
- 13. On Specific Section 15060-2, it references a Piping Specification Schedule at the end of Part 3 of this specification section. This Pipe Specification Schedule is not in the specifications. What Specification are we to follow for the 42”, 36”, 30” and 24” Pipe, is it Ductile Iron Pipe? PVC Pipe? What Class of Pipe are you wanting as nothing is called out specifically.**  
*All water main is intended to be PVC and is covered Section 15064 2.2 Pressure Piping (underground). Ductile iron spools shall be used 2 feet outside of meter pits. Ductile iron shall be Pressure Class 150.*
- 14. If the Piping is Ductile Iron Pipe, is it to be Poly Wrapped?**  
*Yes. DIP must be poly-wrapped per AWWA C105 and shall be cement lined in accordance with AWWA C104.*
- 15. No Tracer Wire is shown, does the Pipeline require Tracer Wire?**  
*Tracer wire is not required.*
- 16. On the Plan Sheet C-23, Meter Pit, What Type of Material is the Pipeline going into and out of the Meter Pit? Ductile or PVC? If Ductile Iron Pipe is required in to and out of the structure, how far is it required to go outside the structure?**

*Ductile iron spools shall be used 2 feet outside of meter pits. Ductile iron shall be Pressure Class 150. See questions #13 and #14.*

**17. On Plan Sheet C-23, Meter Pit, are Plastic Coated Manholes Steps acceptable?**

*Yes.*

**18. In Specification Section 02660-1, 1.3 Submittals, Para. B, Submit satisfactory bacteriological test reports on disinfection requirements. What is required? Can we assume nothing since we are transporting Canal Water?**

*Bacteriological testing is not required.*

**19. On Sheet C-23, Meter Pit, you are calling it out as Pre-Cast Concrete Manhole, who makes this manhole? Can this manhole be Cast-In-Place? VS Pre-Cast?**

*Multiple concrete pre-cast manufacturers in the area provide this service. Bidding cast-in-place meter pits is not allowed.*

**20. I see the pipe has restrained joints. How do you want the joints restrained? This goes back to what pipe are you looking for?**

*Manufacturers provide several options for joint restraint. See related question #13.*

**21. At the south end of the 42" Pipe Line. Who does the connection to the Pipeline being installed by CNPPID? Is the Contractor who performs that pipe line do the connection or does the pipe line contractor for this project do the connection? This would be a costly item. A 42" Solid Sleeve is very expensive.**

*Refer to Note on Sheet C-20, at Station 1+20 - Connect to CNPPID 42" Dia. Pipe. Install 42" butterfly valve.*

**22. If the United States Government imposes the Tariff's that are to go into effect on Oct 1, the Suppliers are telling us that there could be as much as a 25% Increase in Fittings. Will this cost be covered by a Change Order or do we allow for it in our Bid?**

*The Program will comply with the EJDC C-700, Standard General Conditions of the Construction Contract, Article 13, Cost of the Work; Allowances; Unit Price Work, for consideration of requests for unit price increases or decreases.*

**23. Are we to include all Materials for this project? Pipe & Fittings?**

*Yes. Refer to Section 01270ADM1 – Measurement and Payment Part 4. Bid Item 15 – Water Supply Pipeline System.*

**24. Existing soils that we probed out in borrow areas seem to be high in moisture. Might be hard to make density with that material. Is there any variance in the 95%?**

*No.*

**25. Will mowing and haying or even burning be allowed to get rid of vegetation?**

*See question #12.*

**26. Inspection Trench is there any quantities or bid item to cover this and is the embankment quantities include the fill for inspection trench?**

*Inspection trench excavation and backfill volumes are included in the Berm Embankment quantity.*

**27. Says that inspection trenches need to be done in the dry. Will we have to dewater to dig down to the sand? Some places are already under water where berms are to be built.**

*Refer to Section 02200 Earthwork Subparagraph 3.3.B.3. Dewatering is not necessary for potholes down to sand.*

**28. Need either electronic files or .pdf of existing and proposed contours and top elevations of berms. Need to know at each structure what existing elevation to compare flow elevation so we know how deep we are digging. Also, need that information so we know how much dirt goes into each berm. It is a long haul from cell #8 borrow area to where the berms are.**

*Refer to question e.*

**29. Just for clarification the Rubicon flume gates are not part of this contract? That will be supplied and installed by somebody else if I am reading correct.**

*The cost of the flume gates is to be included in Bid Item 8. Rubicon requires that they install and commission the gates.*

*The Section 01270ADM1 - Measurement and Payment description for Bid Item 8. Water Level Control Flume Structures measurement and payment description includes the "self-contained solar powered motorized flume gate". Note 2, on Sheet C-14 states the flume gate will be installed and commissioned by manufacturer.*

**30. Would it be acceptable to use concrete as an alternate design in lieu of the "granular fill" and 2-inch void form as detailed for the Water Level Control Flume Structures?**

*Yes.*

**31. Can you tell us the location of the "future" Ditch Meter?**

*The future meter would be installed beyond the 24-inch Plug at STA 25+15 shown on Sheet C-21.*

**32. Can we get a detail of the headwall for the 1½" sump drain line as called for on plan sheets C-21 & C-22?**

*See Addendum #2.*

*Add note to Sheets C-21 and C-22.*

*Headwall shall be a precast fiber reinforced concrete headwall with stainless steel grating as manufactured by Althon Swale Inlet Headwall-150 or approved equal with a sloping front and hinged mild steel galvanized grate to allow for cleaning.*

**33. With all of these questions and I am sure additional ones from other contractors, will you consider postponing the bid date one week to give us time to react to the addendum/answers to the questions?**

*The bid submittal date will not be changed.*

- 34. The first one regards temporary seeding. What are the specs for it, are they the same as NDOT? It also says in section 02270-1 that topsoil piles need temporarily seeded. Is that the case if the piles are expected to be removed soon after we make them?**

*Refer to question g.*

- 35. My other question regards de-watering. In section 02240-2 it says that groundwater needs to be maintained at 1 foot below the bottom of any excavation. If we encounter groundwater in the borrow areas but our equipment can still get through it do we still need to de-water to 1 foot below excavation level?**

*No. Groundwater control for excavation in borrow areas is not necessary.*