

ADDENDUM No. 3

**Boiling Spring Lake Dams Construction / Reconstruction
Project Number 35
City of Boiling Spring Lakes, NC
Addendum Date: February 16, 2023**

Engineer
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BID DUE DATE & TIME: March 3, 2023, 2:00 PM

This Addendum Number THREE provides answers to the final questions received from bidders. The following changes and clarifications shall be made to the Contract Documents:

Q 1: Per page 19 of Section 0130000, regarding construction cameras, this work consists of furnishing, installing, and maintaining a construction camera for each site as detailed in the Contract Documents.

Then it goes on to say Payment will be made at the contract lump sum price for BID ITEM 52 – CONSTRUCTION CAMERA in accordance with the approved Schedule of Values.

We the contractor interpret this to mean there is only one camera required for the entire project, to be located at the Sanford Dam site, please confirm that this is correct. There seems to be some confusion with the manufacturer, EarthCam, that a camera will be required at each site as seen in line one above.

A 1: There is one camera and it is to be located at the Sanford Dam site.

Q 2: Spec Section 0310000 "Concrete Forming and Accessories" 4.2, C. states "Gradual Irregularities on surfaces subject to hydraulic flow: Measured with 5-foot straightedge perpendicular and parallel to flow: 1/32 inch per inch". With the units given "inch per inch" is the 1/32 of an inch tolerance cumulative? As an example over a 32" section of the 5ft straightedge is the allowable tolerance 1" total (1/32"x32")? Or is the total allowable tolerance over the 5 ft straight edge 1/32 of an inch?

A 2: A revised Section 013000 is attached with the following updates:

- The tolerance stated in Section 013000 Part 4.2B-2 has been changed to "1 inch".
- The tolerance stated in Section 013000 Part 4.2C has been changed to "1/4 inch".
- Both of the tolerances stated in Section 013000 Part 4.2D have been changed to "1/2 inch".

Q 3: I just want to confirm that we do in fact need builder's risk on this project?

A 3: Yes.

Q 4: Plan drawings for the Floating Barrier Systems were provided for Sanford Dam, Upper Lake Dam and Pine Lake Dam but not for North Lake Dam. The specification 355923, Floating Barrier System, indicates that all four dams require a Floating Barrier System. please clarify.

A 4: A Floating Barrier System is required for North Lake Dam. Refer to Sheet NLD-C-10 in Bid Documents.

Q 5: Paragraph 11.01 states under instructions to bidders "the apparent successful bidder, and any other bidder so requested, must submit to Owner a list of the subcontractors or suppliers proposed for the following portions of work within five days after bid opening: cutoff wall installation, deep mix panels installation, cast in place concrete spillway structures installation, cofferdam installation and or control of water, and blanket and chimney drains installation". Please clarify if the dewatering subcontractor shall be considered one of the subcontractors on this list.

A 5: The dewatering subcontractor is a contributor to control of water efforts and shall therefore be included in the list.

Q 6: Would the owner consider extending the current question due date from what is currently posted in addendum 1 to a date closer to the due date?

A 6: No extension can be provided.

Q 7: At the sequence of construction notes on plan sheet 33 of 196, it states that we are to install a coarse drainfill ahead of the 12" leveling concrete ... Is this sequence correct ?

CONSTRUCTION STAGE 2:

1. PREPARE FOUNDATION ROCK SURFACE, AND INSTALL COARSE DRAINFILL AND LEVELING CONCRETE AS SHOWN ON THE SD B-SERIES DRAWINGS.

A 7: Stage 2 Note 1 on Sheet SD-A-01 indicates that the coarse drainfill and leveling concrete are installed in the same part of the sequence but does not state an order in which they are to be installed. The materials shall be installed such that the geometry shown in Details 3 and 4 on Sheet SD-B-09 is constructed accurately.

Q 8: In the Geotechnical Data Report from Schnabel and McGill there are discussions regarding the presence of cavities and/or sinkholes in the vicinity of the dams. During the dewatering process of the dams for the proposed construction activities existing cavities and sinkholes will more than likely become more evident. Can you provide a means to pay for the backfilling of these cavities and / or sinkholes with a flowable fill concrete material bid item unit as these are an unknown existing geological conditions present at the dams?

A 8: Contractors shall prepare their bids based on the information presented in the Geotechnical Data Report and in accordance with the Bid Documents.

Q 9: At Sanford Dam- Is the material required to build the work platforms in the Sequencing and E&SC Plans included in the bid item "Select Common Fill"? Measurement and Payment says it will not be measured but through takeoff it appears this quantity is included.

A 9: The costs to construct temporary work platforms to perform work related to MIP Panels and the Cutoff Wall are to be included in Bid Items 33 and 34, respectively.

Q 10: We had a request from a cutoff wall specialty subcontractor:

With the presence of high-strength material to install the barrier wall through. It would reduce the cutoff wall SF cost if the wear items be listed as their own bid item by the each, sharing the risk with the owner.

A 10: The costs to construct the Cutoff Wall are to be included in Bid Item 34.

Q 11: Bidding Documents, Division 00 Bidding and Contract Requirements, Supplementary Conditions, SC-6.04, G. Coverage for Completion Delays, requires that the Contractor's builder's risk policy provide coverage for the Owner's soft cost and loss of revenue. What revenues or soft costs does the Owner expect to incur in the event of a delay? To quote coverage for soft costs, the underwriters will need a breakdown of the sublimit by types of monthly fees. Please provide the limit of softs costs required and a monthly breakdown of fees by type and amount and the number of months the coverage limit shall provide coverage for.

A 11: The total amount would depend on the level of deficiency and cannot be quantified at this point. The Liquidated Damages have been developed to account for reasonable additional charges.

Q 12: Bidding Documents, Division 00 Bidding and Contract Requirements, Supplementary Conditions, SC-6.04 H. Builder's Risk and Other Property Insurance Deductibles, states that the Contractor's deductibles on their builders' risk insurance may not exceed \$500,000. Deductibles are the sole financial responsibility of the first named insured on the policy and not the responsibility of the owner or any other additional insureds on the policy. Because there is no financial exposure to the Owner, Contractor's deductibles should be at the sole discretion of the Contractor. Please remove the deductible requirement by striking SC-6.04 H. 1. from the Supplementary Conditions.

A 12: The deductible requirement cannot be removed.

Q 13: Cutoff Wall Installation Method: Would the Owner and Engineer accept the conventional excavated trench method for installation?

A 13: A method which differs from the specified method may be considered. However, the Contractor will be required to construct the Cutoff Wall to the geometry shown on the Drawings and to provide descriptions of all submittals, personnel, materials, equipment, temporary facilities, and construction and quality control procedures in similar detail as is presented in Section 315613 and to the satisfaction of the Engineer. Adjustments to erosion and sediment controls and limits of work will not be allowed to accommodate the substituted method without approval of the Engineer and related regulatory agencies. Additionally, North Carolina Department of Environmental Quality Dam Safety (NCDEQ Dam Safety) may require that an updated design documents submitted for their review and that construction of the Cutoff Wall may not proceed until NCDEQ Dam Safety has provided approval.

Q 14: Spec Section 015000 Temporary Facilities and Controls, 3.4 bullet point E-1. In reference to site enclosure fencing states. "Extent of Fence: As required to enclose the entire site or a portion determined sufficient to accommodate construction operations." Can clarification be provided on the extent of site enclosure fencing that will be required?

A 14: The Contractor shall provide temporary fencing around the site in accordance with the safety and security requirements in the Contract Documents and in accordance with the Contractor's safety and security preferences. Contractor shall determine the fencing extents needed to prevent unauthorized entry to construction areas and to protect existing facilities and adjacent properties from damage from construction operations and demolition.

Q 15: With the Specialty Geotechnical Scopes, the mix-in-place panels, and the cutoff wall there is some element of overage in material that needs to be accounted for, even more so in this karst topography. Normally a percent of material overage to be covered in the unit price is stated in the specification. In reviewing Specification Sections 013000 Parts 2.33 and 2.34, as well as sections 316616, and 315613 an overage percentage isn't stated anywhere.

What percent material overage would you like carried in our unit price for the mix-in-place panels, and the cutoff wall? Please note with this karst topography seen in the geotechnical report material overages are unquantifiable and will be unquantifiable until the work is being completed.

A 15: Contractors shall prepare their bids based on the information presented in the Geotechnical Data Report and in accordance with the Bid Documents.

Q 16: In the dewatering specification is this meant to read that we are required to dewater down to Elevation 2 or 2 feet below the bottom of the lowest excavation point which would be Elevation minus 2 ... ? ? ?

1.8 PERFORMANCE REQUIREMENTS

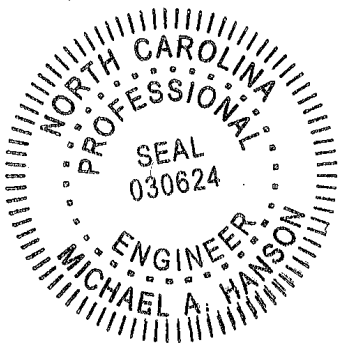
A. Dewatering systems shall meet the following performance requirements:

1. Lower the water table within the base of the excavations to a minimum depth of 2 feet to permit work to be completed on a dry and stable subgrade.

A 16: A revised Section 013000 is attached with Part 1.8A-1 revised as follows:
“Lower the water table within the base of the excavations to a minimum depth of 2 feet below excavation grade to permit work to be completed on a dry and stable subgrade.”
The Sanford Dam lowest excavation grade is expected to be at about Elevation 0 based on the information in the Geotechnical Data Report, but this expectation is subject to change based on conditions encountered during construction.

This Addendum Number THREE is issued this 16th day of February 2023.

Michael Hanson, PE



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