

January 28, 2025

**ADDENDUM NO. 1  
TO THE  
CONTRACT DOCUMENTS  
FOR  
CUMBERLAND COUNTY TRANSFER STATION**

To All Plan Holders:

The following revisions, additions and clarifications are hereby made part of the Contract Documents for the above-referenced project and shall be taken into account in the preparation of all Bids and the execution of all work. Bidders shall acknowledge receipt of the Addendum in the appropriate space on the Proposal Form. Failure to do so may result in your Bid being considered non-responsive.

**I. PRE-BID MEETING MINUTES**

- AD1-1. **Pre-Bid Meeting Minutes** - A pre-bid meeting was held at the site office of Laurens County Landfill, LLC on Tuesday, April 9<sup>th</sup>, 2024 and a copy of the meeting minutes and attendance are **attached**.
- AD1-2. **Revised Bid Document: Revised Section 01025 Measurement and Payment: Section 01025** has been revised to include Hydrostatic Pit Scales and is attached.
- AD1-3. **Revised Bid Document: Revised Section 01300 Submittals: Revised Section 01300 Submittals** has been revised to include Hydrostatic Pit Scales and is attached.
- AD1-4. **Revised Bid Document: Bid Form: The revised Bid Form, pages P-1 through P-4** of the Proposal have been revised to include Hydrostatic Pit Scales and are attached.

**III. QUESTIONS AND ANSWERS**

Questions are provided below in *italics* followed by S+G's response in **bold**.

*AD1-5. Can the pump station be precast?*

The Pump Station is shown on Sheet 13, Drawing LM1 as precast concrete.

*AD1-6. What is the estimated Start Date?*

Estimated start date is April 1.

*AD1-7. What are the painting requirements?*

Door frames, doors, and bollards will need to be painted.

*AD1-8. AD1-8 Does anyone have any information on building lead times?*

Contractors are encouraged to reach out to building suppliers to obtain realistic building lead times.

*AD1-9. Can the Contractor access the site through the cemetery?*

The site can only be accessed through the main landfill gate on Ann Street.

AD1-10. *Can the bid be submitted electronically?*

The bid can be submitted electronically to the following:

Johnny Scott, Cumberland County  
[jscott@cumberlandcountync.gov](mailto:jscott@cumberlandcountync.gov)  
cc: [johnb@smithgardnerinc.com](mailto:johnb@smithgardnerinc.com)

Due date, time and requirements are the same as hand delivered bids.

AD1-11. *Could you provide a specification on the Leachate Pump Station & the Grit Trap? The supplier is requesting this information.*

The Leachate pump station is detailed in Detail 1/LM1 "Proposed Leachate Pump Station" on Sheet 13, Drawing LM1 and Specification Section 11316. The grit trap is detailed by Detail 2/LM2 "Oil Water Separator" on Sheet 14, Drawing LM2 and Specification Section 02608.

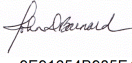
AD1-12. *Can the excess soil be hauled somewhere onsite or will it need to be hauled off-site?*

Excess soil can be stockpiled in the County Borrow Area on-site.

END OF ADDENDUM

Submitted by,

SMITH GARDNER, INC.

DocuSigned by:  
  
1/28/2025  
9E91654B985E437...

John D. Barnard, P.E.

Senior Engineer

[johnb@smithgardnerinc.com](mailto:johnb@smithgardnerinc.com)

Attachments    Pre Bid Meeting Minutes  
                  Pre Bid Attendance Sheet  
                  Revised Section 01025 Measurement and Payment  
                  Revised Section 01300 Submittals  
                  Revised Bid Form  
                  Technical Specification Section 11995 Hydrostatic Pit Scales

Cc:     Plan Holders  
          Amanda Lee  
          Johnny Scott  
          File

# MEMORANDUM

<b>Date:</b>	January 24, 2025
<b>To:</b>	Plan Holders and Pre-Bid Attendees
<b>From:</b>	John D. Barnard, P.E., S+G
<b>RE:</b>	<b>Pre-Bid Meeting Summary – January 23, 2025</b> <b>Cumberland County Ann Street Transfer Station</b>

A pre-bid meeting was held at the project site on January 23, 2025 at 10:00 a.m. The meeting ended at approximately 10:30 a.m. and was followed by a project site walk that ended around 11:00 a.m.

## Attendees:

See attached Attendees list

## Introduction:

The meeting started at approximately 10:05 am with introductions:

- John Barnard – Smith Gardner, Engineer
- Johnny Scott – Cumberland County
- Testing firm will be selected, County will provide. Contractor will be required to coordinate with selected firm.

## Project Description:

Mr. Barnard described the project scope as consisting of the following:

- a. 18,000 SF pre-engineered metal building,
- b. Site work:
  - i. Remove existing stockpile,
  - ii. Bring pad to grade,
  - iii. Replace as embankment (structural fill),
  - iv. There is paving, both concrete and gravel paving,
  - v. Some erosion control is in place, sediment basin, ditches etc. Contractor may have to install additional measures and will have to maintain existing erosion control measures.
- c. Structural Concrete
- d. Sacrificial concrete floors on tipping and loadout floors. These do have a very specific mix design.

- e. Leachate collection and transmission system,
  - i. Gravity drains,
  - ii. Oil/water separators,
  - iii. Pump station,
  - iv. Force main,
  - v. Connection to existing manhole,
    - i. Existing manhole is pvc lined,
    - ii. Contractor to be extremely careful when coring into the manhole,
    - iii. Liner to be repaired,
    - iv. May be issues with patching pvc due to age.
- f. Utility Connections
  - i. Power – 3 phase power exists adjacent to transfer station site.
  - ii. Water will be brought to transfer station site under separate contract.
- b. Pit scales
  - i. Hydrostatic pit scales, 2 in each tunnel will be require. These will be added in addendum 1.
  - ii. Structural drawings indicate dimensions from 1 of 2 manufacturers. The drawings will be revised as needed depending upon selected supplier.

**Bid Information:**

- The following was discussed regarding the Bid:
- The following bonds will be required:
  - All bidders: Bid Bond (5% of Bid Amount)
- The successful bidder will be required to provide the following:
  - Performance Bond
  - Payment Bond
- Bids are due February 14 at 2:00 PM in accordance with the instructions in the Bid Package.
- Contractors to pay careful attention to qualifications.
- MBE Participation is important,
  - The County has a 10% goal,
  - Contractor to make good faith efforts as defined in Bid Package,
- Contract Time: 180 days for the project from Notice to proceed.
- Additional site inspections are allowed and shall be coordinated with County Staff,
- Questions shall be submitted in writing to Engineer
  - [johnb@smithgardnerinc.com](mailto:johnb@smithgardnerinc.com)

**Soil Sources:**

All soils required for the construction project are available within the site.

**Other Items:**

- All contractor employees, staff, management etc. shall wear hard hats and safety vests while on the site.
- Contractor can arrange with County to work hours convenient to them.
- Site is an active landfill. Contractor to be aware of these issues and Landfill traffic has the right-of-way.
- There is the potential of other projects being constructed concurrently with the Transfer Station, these include:
  - Sediment Basin 2,
  - Waterline installations.

The initial presentation was concluded and questions were allowed. Questions and answers are included in Addendum 1.

The group then proceeded to the Transfer Station site. The meeting concluded at approximately 11 am.

## PRE-CONSTRUCTION MEETING ATTENDEES

NAME	COMPANY/AGENCY	PHONE	EMAIL
John Barnard, P.E.	Smith Gardner	(704) 421-3067	<a href="mailto:johnb@smithgardnerinc.com">johnb@smithgardnerinc.com</a>
Johhny Scott	Cumberland County	(910) 321-6920	<a href="mailto:jscott@cumberlandcountync.gov">jscott@cumberlandcountync.gov</a>
Kenneth Newton	M&E	(910) 610-7419	<a href="mailto:kenneth@m-eci.com">kenneth@m-eci.com</a>
Laura Burbach	O'Connor Company	(336) 803-1058	<a href="mailto:lburbach@buildoconnor.com">lburbach@buildoconnor.com</a>
Connor Dennison	Shook Construction	(252) 558-2723	<a href="mailto:cdennison@Shookconstruction.com">cdennison@Shookconstruction.com</a>
Kevin Jacobs	Kevin K Jacobs GC Inc	(910) 827-2310	<a href="mailto:info@kkjgc.com">info@kkjgc.com</a>
J.R. Hopson	Strategic Plumbing Solutions	(910) 494-5678	<a href="mailto:jhopson@strategicplumbinginc.com">jhopson@strategicplumbinginc.com</a>
BJ Lanier	Lanier Construction	(252) 286-6739	<a href="mailto:bj@lanierconstruction.com">bj@lanierconstruction.com</a>
Daniel Belton-Mckinney	Lanier Construction	(984) 379-2207	<a href="mailto:Daniel@lanierconstruction.com">Daniel@lanierconstruction.com</a>
Tim Paniccia	JPS Contracting, Inc.	(910) 929-0855	<a href="mailto:Tim@JPScontractinginc.com">Tim@JPScontractinginc.com</a>
Erik Sundquist	Crowder Construction	(704) 348-1321	<a href="mailto:esundquist@crowderusa.com">esundquist@crowderusa.com</a>
John Berry	Berry Building Group	(252) 378-4123	<a href="mailto:jberry@berrybg.com">jberry@berrybg.com</a>
Rodney Cole	ST Wooten Corp.	(252) 714-2689	<a href="mailto:rodney.cole@stwcorp.com">rodney.cole@stwcorp.com</a>
Keith Oxendine	McCarter Electric	(910) 373-9166	<a href="mailto:koxendine@mccarterelectric.com">koxendine@mccarterelectric.com</a>
Johhny Bullard	M-R Electric	(910) 740-6810	<a href="mailto:Jbullard6351@mrelec.org">Jbullard6351@mrelec.org</a>
Ray Hoffman	HNA-Contracting	(704) 464-6800	<a href="mailto:rhoffman@hnaengineering.com">rhoffman@hnaengineering.com</a>
Mitch Ellis	Leak & Associates	(681) 306-1369	<a href="mailto:mitchellellis@leakandassociates.com">mitchellellis@leakandassociates.com</a>

## SECTION 01025

### MEASUREMENT AND PAYMENT

#### A. General

This section includes the units and methods of measurement and the basis of payment for work done under this Contract. The work required for each item shall be as required and/or reasonably implied by the Contract Documents to complete the work. Note that all measurement work shall be subject to verification (surveyed or otherwise) by the Owner.

#### B. Measurement and Payment

1. Section 02110: Site Preparation

All work required for Site Preparation shall be included for payment in the Contractor's Lump Sum Price for this work, wherein no measurement will be made

2. Section 02222: Excavation:

All work required for Excavation which is not otherwise covered under related sections of these Specifications, shall be included for payment in the Contractor's Bid for the following items:

- a. Excavation to Stockpile: which includes the excavation and stockpiling of soils present within the construction area that are above design subgrade or that have been placed within the construction area without testing control, shall be included for payment in the Contractor's Lump Sum Price Bid for this work wherein no measurement will be made.
- b. Over-excavation and Backfill, which includes the over-excavation of unsuitable soils, the backfilling of the excavation with structural fill, and the stockpiling of unsuitable soils where designated by the Owner shall be included for payment in the Contractor's Unit Price Bid for this work, per cubic yard in-place. Measurement of this quantity shall be made by the Contractor with oversight and approval by the Owner's representative. Where an area of over-excavation appears to exceed 100 CY and, if requested by the Engineer, measurement of this quantity shall be made by the Contractor's surveyor.

3. Section 02223: Embankment:

All work required for Embankment which is not otherwise covered under related sections of these Specifications, shall be included for payment in the Contractor's Bid for the following items:

- a. Excavation to Embankment: which includes the excavation, placement, compaction, moisture curing of soils required to bring the site and building pad to subgrade elevations, shall be included for payment in the Contractor's Lump Sum Price Bid for this work wherein no measurement will be made.

4. Section 02240: Geotextiles:

All work required related to Geotextiles shall be considered incidental to the other pay items in this contract and no separate measurement or payment will be made.

5. Section 02270: Erosion and Sedimentation Control:

A portion of the required Erosion and Sedimentation Controls have been installed previously. Therefore, this section refers to measures that remain to be installed and maintenance to existing measures.

All work required for Erosion and Sedimentation Control (Maintenance and Installation), which includes, silt fence, stone filter fence, sedimentation basin, drainage channels, rip-rap pads, which is not otherwise covered under related sections of these Specifications, shall be included for payment in the Contractor's Lump Sum Price Bid for this work, wherein no separate measurement or payment will be made:

8. Section 02271: Rip Rap:

All work required related to Rip Rap shall be incidental to the other pay items in this contract and no separate measurement or payment will be made

9. Section 02500: Roadway Work:

All work required for Roadway Work shall be incidental to other pay items in this contract as follows:

- a. Aggregate Paving, which includes related earthwork and materials (including Type GT-S geotextile and ABC) shall be paid on the basis of the Contractor's Lump Sum Price for this work, wherein no measurement will be made.
- b. Concrete Paving – Pavement and Ramps, which includes related earthwork and materials (including Type GT-S geotextile, ABC, steel, formwork, concrete, etc.) shall be paid on the basis of the Contractor's Lump Sum Price for this work, wherein no measurement will be made.

10. Section 02608: Precast Concrete Structures:

All work required for Precast Concrete Structures, which is not otherwise covered under related sections of these Specifications, shall be included for payment in the following items:

- a. Precast Concrete Oil Water Separator, which includes related earthwork and materials, shall be included for payment in the Contractor's Lump Sum Price Bid for this work.

11. Section 02614: HDPE Pipe

All work required for HDPE Pipe, which includes all related fittings, valves, and appurtenances, shall be included for payment in the following items:

- a. HDPE Waterline: which includes all related work and materials including pipe, fittings, and installation, shall be included for payment in the Contractors Lump Sum Price Bid for this work.
- b. Leachate Forcemain: which includes all related work and materials including pipe, fittings, and installation, shall be included for payment in the Contractors Lump Sum Price Bid for this work.

12. Section 02616: PVC Pipe

All work required for PVC Pipe, which includes all related fittings, valves, and appurtenances, shall be included for payment in the following items:

- a. PVC Leachate Drainage Line: which includes all related work and materials including pipe, fittings, casing pipe and installation, shall be included for payment in the Contractors Lump Sum Price Bid for this work.
- b. Cleanouts, which includes all related work and materials including pipe and fittings, and cleanout plug, cover, and cleanout box.
- c. PVC Roof Drainage Line: which includes all related work and materials including pipe, fittings, and installation, shall be included for payment in the Contractors per Lump Sum Price Bid for this work.

13. Section 02640: Valves

All work required related to Valves shall be considered incidental to the other pay items in this contract and no separate measurement or payment will be made.

14. Section 02642: Appurtenances:

All work required related to Appurtenances shall be considered incidental to the other pay items in this contract and no separate measurement or payment will be made.

15. Section 02930: Revegetation:

All work required for Revegetation shall be included for payment in the Contractor's Lump Sum Price for this work, wherein no measurement will be made.

16. Section 03300: Concrete Work:

All work required for Concrete Work shall be considered incidental to the other pay items in this contract and no separate measurement or payment will be made.

17. Section 11316: Pump Station:

All work required for Pump Stations shall be included for payment in the Contractor's Lump Sum Price for the following item, wherein no measurement will be made:

- a. Leachate Pump Station, which includes related earthwork and materials (including wet well, pumps, connections, valves, controls, and all related electrical items and appurtenances).

18. Section 13995: Hydrostatic Pit Scales

All work required for Hydrostatic Scales shall be included in the Contractors Lump Sum Price for the following item, wherein no measurement will be made:

- a. Hydrostatic Pit Scales, which includes related structural concrete work, foundations, plumbing, totalizer installation, electrical supply, scale installation, digital scoreboard installation (1 per scale, two per loading pit), scale calibration and all related appurtenances.

19. Transfer Station:

All work required for the Transfer Station, which is not otherwise covered under related sections of these Specifications, shall be included for payment in the following items:

- a. Pre-Engineered Metal Building, which includes engineering design, fabrication, and installation, including all temporary measure, shall be included for payment in the Contractor's Lump Sum Price for this work, wherein no measurement will be made.
- b. Structural Concrete (Foundations and Floor), which includes all related earthwork and materials (including stone, Type GT-S geotextile, steel, formwork, concrete, wall and footing drains, bollards, etc.), shall be included for payment in the Contractor's Lump Sum Price for this work, wherein no measurement will be made.
- c. Concrete Floor Overlay, which includes all related earthwork and materials (including steel, formwork, concrete, etc.), shall be included for payment in the Contractor's Lump Sum Price for this work, wherein no measurement will be made.
- d. Steel Plated Concrete Push Walls, which includes all related earthwork and materials (including steel plate, steel reinforcement, formwork, concrete, etc.), shall be included for payment in the Contractor's Lump Sum Price for this work, wherein no measurement will be made.
- e. Plumbing, which includes all water and wastewater service lines within 5-foot of the building including all related earthwork and materials (including piping, pipe hangers, heat tracing valves, appurtenances, etc.)

- f. Electrical, which includes all electrical inside the building including all related materials.

20. Utility Connections/Relocations:

All work required for Utility Connections/Relocations, which includes all related earthwork and materials to make connections, relocations, and installations for utilities as shown or indicated on the Contract Drawings (including water, fire, sewer, and electrical conduits), shall be included for payment in the Contractor's Lump Sum Price for this work, wherein no measurement will be made.

21. Bonds, Mobilization, and Insurance:

This work shall consist of securing the appropriate bonds and insurance policies for the project, performance of preparatory construction operations, and performance of project closeout activities including the movement of personnel and equipment to and from the project site, safety equipment, and other facilities to begin work on a substantial phase of the Contract. All work required for Bonds, Mobilization, and Insurance shall be included for payment in the Contractor's Lump Sum Price for this work, wherein no measurement will be made. The amount of this item shall be limited to a maximum of four percent of the total Bid price. At least twenty (20) percent of this item must be allocated for demobilization at the end of the project.

**C. Submittals**

Before completion of the first pay application, the Contractor shall prepare and submit copies of their proposed pay application to the Engineer for review.

END OF SECTION

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## SECTION 01300

### SUBMITTALS

#### A. General

This section describes the submittal process and the various submittal items which are required for this work. Submittal items include:

1. Progress Schedule
2. Proposed Products List
3. Product Data
4. Samples
5. Working Drawings
6. Operation and Maintenance Manuals
7. Other Submittals
8. Certified Shop Test Reports
9. Construction Photographs.

A summary list of required submittals for this project is shown on Table 1 of this section. Note that this summary list does not relieve the Contractor of providing additional submittal information, not listed in Table 1, which may be required by the Contract Documents.

#### B. Procedure for Submittal and Contractor Responsibilities

1. Submittals shall be transmitted in sufficient time to allow the Engineer at least ten (10) working days (or greater if specified elsewhere) for review and processing.
2. Unless otherwise stated or agreed to, the Contractor shall transmit an electronic copy of all submittals to the Engineer in a format acceptable to the Engineer and Owner. If hard copies of submittals are necessary (or required by the Contract Documents), the Contractor shall transmit five (5) copies of all hard copy submittals to the Engineer. Transportation charges on all submittals shall be the Contractor's responsibility.
3. All submittals from subcontractors, manufacturers, or suppliers shall be sent directly to the Contractor for checking. The Contractor shall thoroughly check all submittals for accuracy and conformance to the intent of the Contract Documents before submitting them to the Engineer. ALL SUBMITTALS SHALL BEAR THE CONTRACTOR'S STAMP OF APPROVAL CERTIFYING THAT THEY HAVE BEEN SO CHECKED. SUBMITTALS WITHOUT THE CONTRACTOR'S STAMP OF APPROVAL WILL NOT BE REVIEWED BY THE ENGINEER AND WILL BE RETURNED TO THE CONTRACTOR.
4. All submittals shall be bound, dated, properly labeled, and consecutively numbered. Information on the label shall indicate submittal number (corresponding to Table 1 of this section), specification section, Contract Drawing number, subcontractors, manufacturer's or supplier's name, and the name or type of item the submittal covers. Each part of a submittal shall be marked and tabulated. Submittals shall be

accompanied by a letter of transmittal, containing date, Project title, Contractor's name, number and titles of submittals, and any other pertinent data to facilitate review.

5. If the submittals contain any departures from the Contract Documents, specific mention thereof shall be made in the Contractor's letter of transmittal. Otherwise, the review of such submittals shall not constitute approval of the departure.

## **C. Procedure for Review**

1. Submittals will be reviewed and annotated by the Engineer in one of the following ways:
  - "Furnish as Submitted" - no exceptions are taken.
  - "Furnish as Noted" - minor corrections are noted and shall be made.
  - "Revise and Resubmit" - major corrections are noted and a resubmittal is required.
  - "Rejected" - Based on the information submitted, the submission is not in conformance with the Contract Documents. The deviations from the Contract Documents are too numerous to list and a completely revised submission of the proposed equipment or a submission of other equipment is required.
2. If a submittal is satisfactory to the Engineer, the Engineer will annotate the submittal "Furnish as Submitted" or "Furnish as Noted" and transmit electronically to the Contractor. For hard copy submittals, the Engineer will transmit two (2) copies to the Contractor.
3. If a resubmittal is required, the Engineer will annotate the submittal "Revise and Resubmit" or "Rejected" and transmit electronically to the Contractor for appropriate action. For hard copy submittals, the Engineer will transmit four (4) copies to the Contractor for appropriate action.
4. The Contractor shall revise and resubmit submittals as required by the Engineer until submittals are acceptable to the Engineer.
5. No materials or equipment shall be ordered, fabricated, shipped, or any work performed until the Engineer returns to the Contractor the submittals, herein required, annotated either "Furnish as Submitted" or "Furnish as Noted".
6. The Engineer's review of the Contractor's submittals shall in no way relieve the Contractor of any of their responsibilities under the Contract. An acceptance of a submittal shall be interpreted to mean that the Engineer has no specific objections to the submitted material, subject to conformance with the Contract Drawings and Specifications.
7. The Engineer's review will be confined to general arrangement and compliance with the Contract Drawings and Specifications only, and will not be for the purpose of checking dimensions, weights, clearances, fittings, tolerances, interferences, coordination of trades, etc.

8. Acceptance of a Working Drawing by the Engineer will constitute acceptance of the subject matter for which the Drawing was submitted and not for any other structure, material, equipment, or appurtenances indicated or shown.
9. Where errors, deviations, and/or omissions are discovered at a later date in any of the submittals, the Engineer's prior review of the submittals does not relieve the Contractor of the responsibility for correcting all errors, deviations, and/or omissions.
10. Additional Engineering Services:
  - a. It is understood by the Contractor that the Owner may charge the Contractor the Engineer's charges for review in the event a submittal is not approved (either "Furnish as Submitted" or "Furnish as Noted") by the third submittal. These charges shall be for all costs associated with engineering review, meetings with the Contractor or manufacturer, etc. commencing with the fourth submittal.
  - b. In the event that the Engineer is required to provide additional engineering services as a result of a substitution of materials or equipment by the Contractor, the additional services will be provided in accordance with Section 01010, Summary of Work, of these Specifications, and will be covered in supplementary or revised information which will be issued to the Contractor.

## **D. Progress Schedule**

1. General:
  - a. Within ten (10) days after the start date defined in the Notice to Proceed, the Contractor shall prepare and submit copies of their proposed progress schedule to the Engineer for review.
  - b. If so required, the schedule shall be revised until it is acceptable to the Owner. Acceptance by the Owner does not constitute confirmation that the schedule is accurate and complete only that it appears to meet minimum job requirements; and, thus, shall not relieve the Contractor of any Contract dates, milestones, or deadlines.
  - c. The schedule shall be updated monthly, depicting progress to the last day of the month and copies submitted to the Engineer not later than the fifth day of the month. PROGRESS PAYMENTS MAY NOT BE PROCESSED WITHOUT A CURRENT PROGRESS SCHEDULE.
2. Form of Schedule:
  - a. The schedule shall be prepared in the form of a horizontal bar chart showing in detail the proposed sequence of the work and identifying construction activities for each structure and for each portion of work including the critical path, predecessor relationships, milestones, etc.

- b. The schedule shall be time scaled, identifying the first day of each week, with the estimated date starting and completion of each stage of the work in order to complete the Project within the Contract time.

## **E. Proposed Products List**

1. Within fifteen (15) days after the start date defined in the Notice to Proceed, the Contractor shall prepare and submit copies of their tabulation of principal items of equipment and materials to be purchased to the Engineer for review.
2. The list shall include the manufacturer name, trade name, and model number for each product.

## **F. Product Data**

1. The Contractor shall furnish for review information on proposed products as required by the Contract Documents or requested by the Engineer.
2. Product data shall indicate, at a minimum, the material properties specified in the Contract Documents.

## **G. Samples**

1. The Contractor shall furnish for review all samples as required by the Contract Documents or requested by the Engineer.
2. Samples shall be of sufficient size or quantity to clearly illustrate the quality, type, range of color, finish, or texture and shall be properly labeled to show the nature of the material, trade name of manufacturer, and location of the work where the material represented by the sample will be used.

## **H. Working Drawings**

1. General:
  - a. Working Drawings include, but are not limited to, Shop Drawings, layout drawings in plan and elevation, etc. The Contractor shall be responsible for securing all of the information, details, dimensions, Drawings, etc., necessary to prepare the Working Drawings required and necessary under this Contract and to fulfill all other requirements of their Contract. The Contractor shall secure such information, details, Drawings, etc. from all possible sources including the Contract Drawings, Working Drawings prepared by subcontractors, Engineers, suppliers, etc.
  - b. Working Drawings shall accurately and clearly present the following:
    - (1) All working and installation dimensions.
    - (2) Arrangement and sectional views.

- (3) Units of equipment in the proposed positions for installation, details of required attachments and connections, and dimensioned locations between units and in relation to the structures.
    - (4) Necessary details and information for making connections between the various trades including, but not limited to, accessories, appurtenances, etc.
  - c. Working Drawings specifically prepared for this Project shall be on Mylar or other approved reproducible material sheets of the same size as the Contract Drawings. Drawings shall conform to recognized drafting standards and be neat, legible, and drawn to a large enough scale to show in detail the required information.
  - d. Contract Drawings are used for engineering and general arrangement purposes only and are not to be used for Working Drawings.
- 2. Working Drawing Requirements:
  - a. Shop Drawings:
    - (1) The Contractor shall submit for review by the Engineer Shop Drawings for all fabricated work and for all manufactured items required to be furnished by the Contract Documents.
    - (2) Structural and all other layout Drawings prepared specifically for the Project shall have a plan scale of not less than 1 inch = 4 feet.
    - (3) Where manufacturer's publications in the form of catalogs, brochures, illustrations, or other data sheets are submitted in lieu of prepared Shop Drawings, such submittals shall specifically indicate the item for which approval is requested. Identification of items shall be made in ink, and submittals showing only general information are not acceptable.
  - b. Layout and Installation Drawings:
    - (1) The Contractor shall prepare and submit for review by the Engineer layout and installation Drawings for all pipes, valves, fittings, etc. under this Contract. The final dimensions, elevation, location, etc., of pipe, valves, fittings, etc., may depend upon the dimensions of equipment and valves to be furnished by the Contractor.
    - (2) Layout and installation Drawings shall show connections to structures, equipment, sleeves, valves, fittings, etc.
- 3. Record Working Drawings:
  - a. Prior to final payment, the Contractor shall furnish the Engineer one complete set of all accepted Working Drawings, including Shop Drawings, for equipment, piping, etc.

- b. Manufacturer's publications, submitted in lieu of prepared Shop Drawings, will not be required in reproducible form. However, five (5) sets of such material shall be furnished by the Contractor to the Engineer.
- c. Working Drawings furnished shall be corrected to include any departures from previously accepted Drawings.
- d. Refer to Section 01010 Paragraph F.9 (Summary of Work - Record (As-Built) Drawings) for additional information regarding required record drawings.

## **I. Operation and Maintenance Manuals**

- 1. Copies of Operation and Maintenance Manuals, prepared specifically for this Project, shall be furnished for each item of equipment furnished under this Contract at the time it is installed.
- 2. Manuals shall contain complete information in connection with assembly, operation, lubrication, adjustment, maintenance, and repair, including detailed parts lists with drawings or photographs identifying the parts.
- 3. All copies of the manuals furnished shall be assembled and bound in separate volumes, by major equipment items or trades, and properly indexed to facilitate locating any required information.
- 4. The Engineer and the Owner shall be the sole judge of the acceptability and completeness of the manuals and may reject any submittal for insufficient information included, incorrect references, and/or the manner in which the material is assembled.
- 5. The approved sets of operation and maintenance manuals shall be furnished prior to final acceptance.

## **J. Other Submittals**

Other required submittals include, but are not limited to: proposed handling/installation procedures, information on proposed construction equipment, borrow area information, material certifications, qualifications for manufacturers and installers, manufacturer instructions/recommendations, test reports, and design data.

## **K. Certified Shop Test Reports**

- 1. Each piece of equipment for which pressure, head, capacity, rating, efficiency, performance, function or special requirements are specified or implied shall be tested in the shop of the manufacturer in a manner which shall conclusively prove that its characteristics comply fully with the requirements of the Contract Documents and applicable test codes and standards. The Contractor shall keep the Engineer advised of the scheduling of shop tests so that the Engineer may arrange for the witnessing or inspection at the proper time and place.

2. The Contractor shall secure from the manufacturers copies of the actual test data, the interpreted results, and a complete description of the testing facilities and testing setup, all accompanied by a certificate of authenticity sworn to by an authorized official of the manufacturing company and notarized. These reports shall be forwarded to the Engineer for review.
3. In the event any equipment fails to meet the test requirements, the manufacturer shall make all necessary changes, adjustments, or replacements and the tests shall be repeated, at no additional cost to the Owner or Engineer, until the equipment test requirements are acceptable to the Engineer.
4. No equipment shall be shipped to the Project until the Engineer notifies the Contractor, in writing, that the shop test reports are acceptable.

## **L Construction Photographs**

1. General:
  - a. The Contractor shall engage a competent photographer to take photographs at the locations and at such stages of the construction as necessary document the construction progress as directed by the Engineer.
  - b. Provide the equivalent of 24 different exposures per month (minimum) for the duration of the Contract Time. When directed by the Engineer, frequency of photographs may be increased to weekly sessions provided that the equivalent number of exposures is not exceeded. The Engineer may waive requirements for photographs during inactive construction periods in favor of increased photographs during active construction sequences.
2. Submittal Requirements:
  - a. At completion of the work, electronic versions of photographs shall be turned over to the Owner.

**Table 1: Summary List of Required Submittals**

Specification Section	Submittal Number	Description
01010 (Summary of Work)	01010-1	GPS-Based Grading System Information (If Applicable)
	01010-2	Survey Grid
01025 (Measurement And Payment)	01025-1	Proposed Pay Application
01300 (Submittals)	01300-1	Progress Schedule
	01300-2	Proposed Products List

Specification Section	Submittal Number	Description
01400 (Quality Control & Quality Assurance)	01400-1	Report Documenting all CQA and CQC Activities (Soil, Concrete, & Roadway)
02240 (Geotextiles)	02240-1	Mill Certificate and Sample (Each Product)
	02240-2	Shipping, Handling, and Storage Instructions
	02240-3	Seaming Procedures
	02240-4	Quality Control Certificates
	02240-5	Delivery Tickets or Other Approved Receipts
02270 (Erosion And Sedimentation Control)	02270-1	Certification and Summary of Required Test Results on Materials to be Provided
	02270-2	Delivery Tickets or Other Approved Receipts
02271 (Rip Rap)	02271-1	Certification and Summary of Required Test Results on Materials to be Provided
	02271-2	Delivery Tickets or Other Approved Receipts
02275 (Rolled Erosion Control Products)	02275-1	Mill Certificate and Sample (Each Product)
	02275-2	Installation Guidelines/Instructions
	02275-3	Delivery Tickets or Other Approved Receipts
02500 (Roadway Work)	02500-1	Certification and Summary of Required Test Results on Materials to be Provided
	02500-2	Delivery Tickets or Other Approved Receipts
02608 (Precast Concrete Structures)	02608-1	Shop Drawings
	02608-2	Certification and Summary of Required Test Results on Materials to be Provided
02616 (PVC Pipe)	02616-1	Certification and Summary of Required Test Results on Materials to be Provided
	02616-2	Shipping, Handling, and Storage Instructions
	02616-3	Delivery Tickets or Other Approved Receipts
02640 (Valves)	02640-1	Certification and Summary of Required Test Results on Materials to be Provided
	02640-2	Shop Drawings
	02640-3	Delivery Tickets or Other Approved Receipts
	02640-4	Operation and Maintenance Manuals
02720 (Stormwater Systems)	02720-1	Certification and Summary of Required Test Results on Materials to be Provided
	02720-2	Delivery Tickets or Other Approved Receipts
02930 (Revegetation)	02930-1	Results of Soil Tests and Proposed Modifications
	02930-2	Seed Certificates

Specification Section	Submittal Number	Description
	02930-3	Fertilizer Invoices
03300 (Concrete Work)	03300-1	Product Data
	03300-2	Placing Drawings
	03300-3	Samples
	03300-4	Laboratory Test Reports
	03300-5	Material Certificates
11314 (Leachate Pumps and Controls)	11314-1	Shop Drawings
	11314-2	Operation and Maintenance Manuals
	11314-3	Pump Documentation
	11314-4	Manufacturer's Warranty for Pumps
11995 Hydrostatic Pit Scales	11995-1	Shop Drawings
	11995-2	Foundation Drawings
	11995-3	Operation and Maintenance Manuals
	11995-4	Manufacturer's Warranty
Architectural Drawings	AD-1	Metal Building Shop Drawings
Structural Drawings	SD-1	Concrete Mix Designs
	SD-2	Concrete Materials, Including Admixtures
	SD-3	Concrete Reinforcement Shop Drawings
	SD-4	Structural Steel Shop Drawings
Electrical Drawings	ED-1	Light Fixtures
	ED-2	Electrical Gear
	ED-3	Electrical Devices (Receptacles, Switches)
Mechanical Drawings	MD-1	Exhaust Fans and Louvers
	MD-2	Unit Heater
Fire Protection Drawings	FPD-1	Fire Protection System Shop Drawings

END OF SECTION

## **Bid Form**

### **Cumberland County Municipal Solid Waste Transfer Station Fayetteville, NC**

Bidder agrees to perform all the work described in the Specifications and shown on the Contract Drawings for the lump sum and unit prices listed in the Bid Schedule(s) below.

#### **Measurement and Basis for Payment:**

Some of the line items in the Bid Schedule(s) may include approximate quantities as estimated by the Engineer. The Contractor shall not rely on the quantities given, but shall instead estimate all quantities independently as required to complete the Proposal. The Bid Schedule(s) outlines each item and the corresponding lump sum or unit price listed by the Contractor. The price associated with each lump sum item shall be the full compensation paid for the work described, regardless of the Engineer's or Contractor's estimated quantity. For Lump Sum items, no claim shall be made by the Contractor for deviations between the Contractor's estimated and the actual quantity required to complete the work described, wherein no measurement will be made.

A description of measurement and payment for each Lump Sum and Unit Price Bid item can be found in Section 01025, Measurement and Payment, of these Specifications.

#### **Unit Price Deviations:**

The Bidder is responsible for providing unit prices consistent with typical industry norms for the work described. Unit prices which appear inconsistent with typical prices for similar work shall be justified by the Bidder at the request of the Engineer. Providing unit prices which do not reasonably reflect the work described, either high or low, which are not justified satisfactorily to the Engineer, may deem the Bidder non-responsive and invalidate the Bidder's Proposal.

A1. Base Bid Schedule – Transfer Station:

Pay Item Number	Description	Spec. Reference	Estimated Quantity <sup>1</sup>	Units	Unit Cost	Extended Cost
1	Site Preparation	02110	3.7	AC	Lump Sum	
2	Excavation to Stockpile	02222	3,900	CY	Lump Sum	
3	Excavation-to-Embankment	02222/02223	3,600	CY	Lump Sum	
4	Over-excavation and Backfill	02222/02223	100	CY	Lump Sum	
5	Erosion and Sedimentation Control (Maintenance and Installation)	02270	1	LS	Lump Sum	
6	Aggregate Paving	02500	10,650	SY	Lump Sum	
7	Concrete Paving - Pavement and Ramps	02500	1,370	SY	Lump Sum	
8	1.5" HDPE Waterline	02616	160	LF	Lump Sum	
9	8" PVC Leachate Drainage Line	02616	345	LF	Lump Sum	
11	Precast Concrete Oil Water Separator	02608	2	EA	Lump Sum	
12	PVC Roof Drainage System	02616	370	LF	Lump Sum	
13	Leachate Pump Station	11316	1	LS	Lump Sum	
14	Leachate Forcemain	02614	1	LS	Lump Sum	
15	Revegetation	02930	1.5	AC	Lump Sum	
16	Hydrostatic Pit Scales	11995	4	EA	Lump Sum	
17	Structural Concrete (Foundations and Floor)	DWG	1	LS	Lump Sum	
18	Concrete Floor Overlay	DWG	1	LS	Lump Sum	
19	Concrete Retaining Walls (Site)	DWG	2	LS	Lump Sum	
20	Steel Plated Concrete Lifter and Push Walls	DWG	1	LS	Lump Sum	
21	Pre-Engineered Metal Building	DWG	1	LS	Lump Sum	
22	Plumbing (Domestic Service)	DWG	1	LS	Lump Sum	

Pay Item Number	Description	Spec. Reference	Estimated Quantity <sup>1</sup>	Units	Unit Cost	Extended Cost
23	Mechanical	DWG	1	LS	Lump Sum	
24	Fire Suppression	DWG	1	LS	Lump Sum	
25	Electrical	DWG	1	LS	Lump Sum	
26	Utility Connections/Relocations	DWG	1	LS	Lump Sum	
27	Mobilization, Bonds, and Insurance	01025	1	LS	Lump Sum	

The TOTAL BASE BID PRICE for the pay items listed above is as follows:

(In Words) \_\_\_\_\_ Dollars and \_\_\_\_\_ Cents.

(In Numbers) (\$ \_\_\_\_\_ )

Notes:

1. Engineer's estimated quantities are based on in-place quantities. Areas and lengths are based on horizontally projected areas and lengths. No adjustments have been made for stripping topsoil, slopes, uneven contours, overlaps, seams, anchor trenches, compaction factors, etc.

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## SECTION 11995

### HYDROSTATIC PIT SCALES

Hydrostatic Pit Scales: Hydrostatic Truck Scales will be used to weigh transfer trailers during the loading process in the Transfer Station and shall be packaged in a complete factory prepared system.

#### A. Description

1. General:

The Contractor shall furnish all labor, material, and equipment to complete installation of a Hydrostatic Pit Scales, including all necessary and incidental items, in accordance with the Contract Drawings and these Specifications.

The Hydrostatic Pit Scales shall include four (4) 10-ft x 12-ft steel decked weigh bridges, Hydrostatic load cells, totalizers, display indicators, plumbing, wiring, controls and installation.

2. Related Work:

Related Contract Work is described in the following sections of the Specifications:

<u>Work</u>	<u>Section</u>
Concrete	03300
Electrical: Basic Requirements	16050

5. Warranty:

All equipment shall be warranted by the manufacturer against defects in material, installation, and workmanship for a period of five (5) years. Warranties shall become effective (initiate) upon successful start-up by the manufacturer's representative as required in this section.

The load cells shall be warranted for life against failure from power surges, voltage spikes, welding currents on the weighbridge, lightning strikes, water and extended submersion.

#### B. Materials

1. General:

The materials supplied under these Specifications shall consist of new, first-quality products designed and manufactured specifically for the purpose of this work, which shall have been satisfactorily demonstrated, by prior use, to be suitable and durable for such purposes.

2. Weighbridges

The weighbridges shall be fabricated as follows:

- a. Weighbridges shall be 10 feet x 12 feet with a maximum weigh depth of 13-inches.
- b. Weighbridges shall have a maximum gross rated capacity of 80,000 lbs.
- c. The minimum dual axle capacity shall be 60,000 lbs.
- d. The minimum sectional capacity shall be 100,000 lbs.
- e. I-beams shall be sufficient in size, number and location to provide proper support.
- f. The weighbridge deck shall be steel diamond plate with a minimum thickness of 5/16".
- g. The weighbridge shall be free floating in 360 degrees and shall not require staybars, flexures or be rigidly checked.
- h. The weighbridge shall be designed for installation in shallow pits no more than 24" deep. A deeper pit may be used if required.
- i. Weighbridges shall have removeable access covers over each load cell.
- j. Weighbridges shall be painted or powder coated to provide corrosion resistance.
- k. Weighbridges shall be designed for easy removal and replacement by the owners personnel for access for pit cleaning. Lifting points shall be provided under the access covers. The weighbridge shall be removable with no other disconnections required.

3. Load Cells

The load cells shall be:

- a. Hydrostatic, non-electronic,
- b. Compression Type with a minimum capacity of 75,000 lbs,
- c. NTEP and VCAP Certified,
- d. Shell shall be stainless steel,
- e. Electrically inert and shall be safe for use in hazardous environments.

4. Totalizer and Tubing

The Totalizer and Tubing shall be:

- a. Located adjacent to the scale (with sufficient protection from operations),
- b. Located in a weather resistant enclosure ,
- c. Tubing to the totalizer from the load cells shall be stainless steel and protected by pvc conduit where placed in concrete.
- d. Totalizers shall be electrically isolated from power surges or lightning strikes to the weighbridge.

5. Grounding

Grounding shall be supplied in accordance with the Manufacturer's requirements as well as local codes. he Totalizer and Tubing shall be:

6. Weight Indicators

Digital weight indicators shall be provided that conform to the following:

- a. NTEP Certified with 10,000 division certification,
- b. Housed in a NEMA 4X Stainless Housing,
- c. Be compatible with Hydrostatic scales,
- d. LCD display visible in all levels of light.
- e. Weight indicator to be supplied by the scale manufacturer.

### **C. Submittals**

The Contractor shall submit the following to the Engineer:

1. The Contractor shall submit documentation on the following:
  - a. Weighbridge,
  - b. Foundations,
  - c. Load Cells,
  - d. Totalizer,
  - e. Tubing,
  - f. Electrical requirements.
2. Operation and maintenance manuals shall be provided for all the equipment specified in this section.
3. The Contractor shall submit the manufacturer's warranty for each scale supplied.

### **D. Construction**

1. Installation:

The Hydrostatic Scales shall be constructed as shown on the Contract Drawings and with the manufacturer's standard dimensions and tolerances for the scales specified. Foundations shall be coordinated with the Engineer to verify conformance with the building design.

2. System Start-Up:

The Contractor shall provide the services of the scale manufacturer's representatives to check the installation, make adjustments, calibrate and place the equipment in operation. Provide sufficient time on-site for installation, calibration, start-up, checks of the system, and supervision of any adjustments.

The system start-up shall be conducted in the presence of the Contractor, manufacturer's representative, the Engineer, and the Owner and shall not be considered complete until written acceptance is provided by the Engineer.

During system start-up, all scales shall be tested to the necessary power requirements to assure proper operation of all the components.

END OF SECTION