



THE CITY OF DAYTONA BEACH
OFFICE OF THE PURCHASING AGENT

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ADDENDUM NO. 6

DATE: May 1, 2020

PROJECT: **ITB 20403**

Westside Regional WRF BIOSOLIDS DEWATERING SYSTEM IMPROVEMENTS

OPENING DATE: **May 15, 2020**

This addendum is hereby incorporated into the Bid Documents for the project referenced above. The following items are clarifications, corrections, additions, deletions and/or revisions to and shall take precedence over the original documents. Additions are indicated by underlining, deletions are indicated by ~~strike through~~.

1. Section 14900 is ATTACHED to this Addendum.
2. CLARIFICATION to Questions 3:

The Contractor will include the cost of the belt filter presses/sludge press equipment in their bid. The City will issue a change order to the contract deducting the cost of the belt filter presses including tax, and will procure the equipment through an Owner Direct Purchase, thereby saving the sales tax.

3. Addendum 5, Response to Question 3 is hereby REVISED to read as follows:
 - a. Question 3: What is the anticipated delivery date of the new belt presses?
Response 3: The Contractor will ~~procure~~ include the cost of the new belt presses in their bid. Typical delivery is 16 to 20 weeks after approval of shop drawings. Shop drawings are typically delivered 8 -10 weeks after receipt of the Purchase Order (in this case issued by the ~~Contractor~~ City).

All other terms and conditions remain the same.

The Bidder shall acknowledge receipt of this addendum on the Bid Proposal Form.
The City of Daytona Beach
Joanne Flick, CPPO
Purchasing Agent

Posted online at <https://www.codb/841.us>

SECTION 14900

MONORAILS AND HOIST SYSTEMS

PART 1 GENERAL

1.01 SCOPE OF WORK

- A. Furnish all labor, materials, equipment and incidentals required and install, test and place in satisfactory operation monorails and hoist system, as shown on the Drawings, and as specified herein.
- B. The system shall be complete with track, clips, stops, fittings, bracing, supporting steel (other than main structural system), and all appurtenances necessary to complete the installation.

1.02 MEASUREMENT AND PAYMENT

- A. No separate payment will be made for this Work. Include payment in the lump sum base bid.

1.03 RELATED WORK

- A. Concrete work is included in Division 3.
- B. Miscellaneous metal work is included in Division 5.
- C. Field painting is included in Division 9.
- D. Warranties and Bonds are included in General Conditions.

1.04 SUBMITTALS

- A. Submit, in accordance with Section 01330, shop drawings showing erection methods and details. Submittals shall include at least the following:
 - 1. Certified shop and erection drawings showing all important details of construction, dimensions, erection and anchor bolt locations.
 - 2. Descriptive literature, bulletins, and/or catalogs of the equipment.
 - 3. The total weight of the equipment.
 - 4. A complete total bill of materials for all equipment.
 - 5. A list of the manufacturer's recommended spare parts with the manufacturer's current price for each item. Include gaskets, seals, etc., on the list. List bearings by bearing model numbers only.
- B. Six copies of a certificate of compliance with OSHA, Part 1910, Subpart N, Section 1910.179, shall be submitted at the time that shop drawings are submitted.
- C. Operating and Maintenance Data
 - 1. Operating and maintenance instructions shall be furnished to the Owner's Representative as provided in Section 01782.

2. A factory representative who has complete knowledge of proper operation and maintenance shall be provided on site for one half working day (4-hours) to instruct representatives of the Owner and Engineer on proper operation and maintenance. This work may be done in conjunction with the inspection of the installation and test run as provided under Paragraph 3.02 below.

1.05 REFERENCE STANDARDS

- A. American Bearing Manufacturers Association (ABMA)
- B. American Welding Society (AWS)
- C. American Institute of Steel Construction (AISC)
- D. Hoist Manufacturers Institute (HMI)
- E. Monorail Manufacturers Association (MMA)
- F. Occupational Safety and Health Administration (OSHA)
- G. Where reference is made to one of the above standards, the revision in effect at the time of bid opening shall apply.

1.06 QUALITY ASSURANCE

- A. All of the monorail track and carrier equipment on monorail track shall be products of a single, experienced, reputable and qualified manufacturer who is a member of the MMA.
- B. All of the hoisting equipment shall be the product of a single, experienced, reputable and qualified manufacturer who is a member of the Hoist Manufacturers Institute.
- C. It is the responsibility of the Contractor to guarantee that the monorail and hoisting equipment shall be completely operational in all locations.
- D. The current issue of the Specifications for Underhung Cranes and Monorail Systems by the MMA and the standard specifications of the Hoist Manufacturers Institute shall be included as a part of this Section unless otherwise specified.
- E. All structural steel members of the handling system shall be designed in accordance with AISC current edition and any welded construction shall be in accordance with the standards of AWS and comply with Section 05500 as applicable. Structural design shall be performed by a qualified Professional Engineer registered in the State of Florida.
- F. Castings, forgings, stampings and other structural elements shall have a safety factor of 5.
- G. All equipment shall meet or exceed the requirements of OSHA.

1.07 SYSTEMS DESCRIPTION

- A. Monorails and Hoists

1. This system will be used for handling of press equipment in the area of the building noted on the Drawings and moving the equipment for maintenance and services.
 2. Hoist - Low Headroom, Manual, Chain Type, lug mounted
 - a. Lift Capacity – See Drawings
 - b. Maximum Lift Distance – See Drawings
 - c. Minimum Hook to Deck Distance - as shown on Drawings
 3. Trolley – Push Trolley
 4. Monorail - Beam
 - a. Total Length - See Drawings
 - b. Maximum Span - See Drawings
- B. Stainless steel nameplates giving the name of the manufacturer, model number, serial number, capacity, equipment tag number, and any other pertinent data shall be attached to each monorail, hoist, or trolley.
- C. Equipment tag numbers shall be placed on each piece of equipment.

PART 2 PRODUCTS

2.01 GENERAL

- A. This Section calls attention to certain features, but does not purport to cover all details of construction of the units.
- B. All equipment shall have a service classification of Class A (Standby or Infrequent Service).
- C. All trolley and hoisting equipment shall be manufactured by Yale Hoists of Muskegon, Michigan; Coffing Hoists of Wadesboro, North Carolina; or equal.

2.02 MONORAIL HOIST AND TROLLEY SYSTEM

- A. Monorail hoist systems shall be provided by as a unit by a single manufacturer. Major components of the system shall include monorail trolley and hoist, and all necessary component appurtenances shall be included as part of the system. The system shall be designed to minimize headroom. The monorail indicated on the Drawings shall be revised as needed to suit the manufacturer requirements. Any size change in monorail support beam shall be indicted in the shop drawings and shall be signed and sealed by a State of Florida registered professional engineer.
- B. Monorail hoist systems shall be designed for outdoor use and be able to operate under all weather conditions. Trolleys with direct exposure to the elements shall be provided with fabricated stainless steel “dog house” weather enclosure for residing in “home” position.
- C. Trolley
 1. Wheels shall be drop forged steel, induction hardened to a minimum of 425 Brinell. Bearings shall be double row, combination radial and thrust, anti-friction precision type. They shall be pre-lubricated and sealed and have a minimum B 10 bearing life of 3,000 hours.

- D. Hoist
 - 1. Manual chain hoists shall have a one-piece suspension frame, enclosed gear train, screw and disc type load brake, slip clutch type load limiting device and anti-friction bearings throughout.

2.03 SURFACE PREPARATION AND SHOP PRIME PAINTING

- A. At ferrous metal gears, bearing surfaces and other similar surfaces obviously not painted provide grease or other suitable rust-resistant coating as specified in Division 9.
- B. Surface preparation and shop painting shall be as specified in Division 9 and shall be part of the work of this Section. Provide finish coating systems on items normally shop finish painted in accordance with the requirements of Division 9.

PART 3 EXECUTION

3.01 INSTALLATION

- A. Installation shall be in strict accordance with the respective instructions of the manufacturer and in the locations shown on the Drawings. Installation shall include furnishing the required oil and grease for initial operation. The grades of oil and grease shall be in accordance with the manufacturer's recommendations.

3.02 INSPECTION AND TESTING

- A. Notify the manufacturer to furnish the services of a factory representative, on site for one half working day (4-hours), who has complete knowledge of proper operation and maintenance to inspect the final installation and supervise a test run of the equipment. These services shall be in accordance with Paragraph 1.04 C above.
- B. Working under the direction of the manufacturer, and in the presence of the Engineer, perform field tests as follows:
 - 1. Full load operating tests on all monorail systems.
 - 2. Furnish the labor and weights for testing capacity of hoists.
 - 3. In the event the equipment fails to meet the above test, the necessary changes shall be made, and the equipment retested. If the equipment remains unable to meet the test requirements to the satisfaction of the Engineer, it shall be removed and replaced with satisfactory equipment at the expense of the Contractor.
 - 4. All defects recorded during the above field tests and all defects and failures occurring within first year of operation shall be corrected.

END OF SECTION

AD3 Addendum No. 3 – April 15, 2020