



April 8, 2026

To: Effluent Filter and Pump Hoists Plan Holders
From: Blake Rodgers

Re: Addendum #2
Town of Ridgeland
Effluent Filter and Pump Hoists Project

Below are the Addendum #2 items for the project. The Contractors' question period is now closed.

Addendum Reference #	Reference	Question / comment
2.1	Plan Sheet 5	<p>Q: Please clarify if the breakers needed in panelboards DP0 and DP2 for the proposed jib cranes and disk filter are existing.</p> <p>A: Breakers for the proposed equipment do not currently exist. The contractor is to provide all necessary electrical equipment so that the Project Work is complete and functional.</p>
2.2		<p>Q: If breakers need to be provided in panelboards DP0 and DP2, please provide information about what brand/type of breakers are acceptable.</p> <p>A: Power circuit breakers shall be in accordance with UL 489 with sufficient ampere rating to protect conductors and equipment, manufactured by Square D, a Schneider Electric brand.</p>
2.3	Plan Sheet 4 Specification 46 61 43	<p>Q: Please confirm that the disk filter supplier is to supply control panel LCP602.</p> <p>A: LCP602 is to be factory integrated local control panel mounted to the disk filter unit and provided by the disk filter manufacturer.</p>

2.4	Plan Sheets 6, 7 Specification 41 22 13.19	Q: Please clarify the correct rated capacity for the jib cranes required for this project. The plans indicate a 1.5-ton capacity, while the specification section issued in Addendum #1 lists a 1-ton capacity. A: See Revision 1 of Specification 41 22 13.19, now showing 1.5-ton jib crane capacity. The hoist system shall have the capacity to lift a minimum of 1.5 times the weight of the submersible pumps. The submersible pumps weigh approximately 1,855 pounds with coolant.
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We look forward to receiving bids by April 14, 2026, at 2:00 PM local time at the Town of Ridgeland Town Hall at One Town Square, Ridgeland, SC.

Sincerely,

Goldie Associates



Blake Rodgers, PE
Senior Engineer

Attachments: Jib Crane Specification Section 41 22 13.19, Revision 1

SECTION 41 22 13.19

JIB CRANE

Revision History			
	Date	Comments	By
1.	4/8/2026	Revised capacity to 1.5 tons	BAR

PART 1 GENERAL

1.01 SUMMARY

This section specifies the requirements for furnishing and installing two (2) free-standing jib cranes, including mast column, boom, trolley, foundation, and all associated hardware. The crane shall be a Gorbelt Model FS300-12-W10, or approved equal.

1.02 REFERENCES

The following standards and codes form part of this specification to the extent referenced herein. In case of conflict between the referenced standards and this specification, the more stringent requirement shall govern.

1. OSHA 29 CFR 1910.179 – Overhead and Gantry Cranes
2. ASME B30.11 – Monorails and Underhung Cranes
3. ASME BTH-1 – Design of Below-the-Hook Lifting Devices
4. AISC 360 – Specification for Structural Steel Buildings
5. ACI 318 – Building Code Requirements for Structural Concrete
6. AWS D1.1 – Structural Welding Code – Steel
7. CMAA Specification No. 74 – Top Running and Under Running Single Girder Electric Overhead Travel Cranes
8. Section 01 33 00 – Submittals
9. Section 09 90 05 – Painting & Protective Coatings

1.03 SUBMITTALS

Submittals shall be in accordance with Section 01 33 00 – Submittals and include the following for review and approval prior to fabrication:

- A. Shop drawings showing all dimensions, connection details, base plate geometry, anchor bolt layout, and boom configuration.
- B. Structural calculations sealed by a Professional Engineer registered in the state where the project is located.
- C. Foundation design drawings and calculations, confirming compatibility with the site geotechnical report.
- D. Manufacturer's product data including crane rated capacity, component specifications, finish information, and installation instructions.
- E. Manufacturer's warranty documentation.
- F. Load test certificates upon completion of installation.

1.04 QUALITY ASSURANCE

The crane manufacturer shall be regularly engaged in the design and fabrication of jib

cranes and shall have a minimum of ten (10) years of experience producing equipment of the type specified. All welding shall conform to AWS D1.1. The crane system shall be designed, manufactured, and tested in accordance with the applicable provisions of OSHA, ASME, and CMAA standards referenced herein.

1.05 Warranty

The manufacturer shall provide a minimum one (1) year warranty covering defects in materials and workmanship from the date of substantial completion. Structural components shall carry a minimum five (5) year warranty against structural failure under normal use within the rated capacity.

PART 2 PRODUCTS

2.01 CRANE EQUIPMENT

The jib crane shall be a Gorbel Model FS300-12-W10 free-standing type, or approved equal meeting the performance parameters specified herein. The crane shall have the following characteristics:

Parameter	Requirement
Manufacturer	Gorbel
Model	FS300-12-W10
Type	Free-standing, full-cantilever jib crane
Rated Capacity	<u>1.5 Ton (3,000 lbs)</u>
Boom Span	12'-0"
Trolley Travel	10'-3 3/4"
Height Under Boom (H.U.B.)	10'-0"
Overall Height	10'-11 15/16" (10.996 ft)
Rotation	360 degrees

2.02 STRUCTURAL COMPONENTS

A. Mast Column

The mast column shall be a W10 x 26 structural steel wide-flange section conforming to ASTM A992/A992M, Grade 50. The column shall be shop-fabricated with the base plate and hub assembly pre-welded. The hub assembly shall be located at 10'-0" above the top of the base plate (grout line).

B. Boom

The boom shall be a structural steel member spanning 12'-0" from the center of the mast, providing an effective trolley travel of 10'-3 3/4". The boom shall be designed for 360-degree rotation about the mast and shall incorporate thrust bearings at the hub connection.

C. Base Plate

The base plate shall be 1-1/4” thick structural steel. The anchor bolt pattern shall be as follows:

Parameter	Requirement
Bolt Circle Diameter	24”
Number of Anchor Bolts	6
Anchor Bolt Diameter	1-1/4”
Bolt Offset (typical)	2”
Base Plate Dimensions	12 3/4” x 8 1/2” (at anchor bolt location)

2.03 TROLLEY AND HOIST

The trolley shall be a manual push-type suited for operation on the boom profile. The hoist shall be provided by others unless otherwise indicated in the contract documents. The hoist shall not exceed the 1.5-ton rated capacity of the crane and shall be compatible with the trolley and boom configuration. The Contractor shall verify hoist compatibility with the crane manufacturer prior to procurement.

2.04 FINISH

All structural steel components shall receive a shop-applied primer coat conforming to SSPC-SP6 surface preparation (commercial blast cleaning) with a minimum dry film thickness of 3.0 mils. Field touchup of primer shall be performed at all areas damaged during shipping and erection. Final finish coating shall be as specified Section 09 90 05 – Painting & Protective Coatings.

PART 3 EXECUTION

3.01 FOUNDATION

The foundation shall be designed and constructed in accordance with the crane manufacturer’s requirements and the project geotechnical report. The following minimum parameters, taken from the supplier drawing, shall apply:

Parameter	Requirement
Foundation Plan Dimensions	6’-0” x 6’-0” (square)
Foundation Depth	4’-0”
Concrete Compressive Strength (f’c)	3,000 psi minimum
Allowable Soil Bearing Pressure	2,500 psf minimum
Reinforcing (Top)	No. 5 bars (#5, 5/8” dia.) at 12” on center, each way
Reinforcing (Bottom)	No. 6 bars (#6, 3/4” dia.) at 12” on center, each way
Grout Pad	1” non-shrink grout under base plate

Anchor bolts shall be cast-in-place and set to the dimensions and tolerances indicated by the manufacturer. Anchor bolt projection, embedment depth, and edge distances shall be verified against the manufacturer's requirements.

3.02 INSTALLATION

Installation shall be performed by an experienced rigging contractor familiar with jib crane erection. Installation shall conform to the crane manufacturer's written installation instructions and the following requirements:

- A. The foundation shall be installed in accordance with Section 03 30 00 – Cast In Place Concrete
- B. The foundation shall achieve a minimum of 75 percent of the specified 28-day compressive strength before erection of the crane column.
- C. The mast column shall be plumbed to within 1/8" per 10 feet of height, or the manufacturer's tolerance, whichever is more stringent.
- D. Non-shrink grout shall be placed to a depth of 1" between the base plate and the top of the concrete pedestal. Grout shall be mixed and placed in accordance with the grout manufacturer's recommendations.
- E. All anchor bolts shall be torqued to the crane manufacturer's specified values using a calibrated torque wrench.
- F. The boom shall rotate freely through 360 degrees without binding, interference, or excessive deflection.
- G. Do not scale from the supplier drawing. All field dimensions shall be verified against the actual equipment received.

3.03 LOAD TESTING

Upon completion of installation, the crane shall be load tested in accordance with ASME B30.11. The test shall include the following:

- A. A rated load test at 100 percent of the crane's rated capacity (1.5 ton), with the load traversed the full length of the boom and rotated through 360 degrees.
- B. An overload test at 125 percent of the rated capacity (3,750 lbs), held in the most adverse position for a minimum of 10 minutes.
- C. Verification that no permanent deformation, structural distress, or excessive deflection has occurred following the overload test.

Load test results shall be documented and submitted to the Engineer. The crane shall not be placed into service until the load test has been completed satisfactorily and the test report has been accepted.

3.04 FIELD QUALITY CONTROL

The Contractor shall inspect all welds, bolted connections, and structural members for compliance with the contract documents and referenced standards. All field welds shall be performed by certified welders and shall comply with AWS D1.1. The Engineer reserves the right to require independent third-party inspection of critical connections.

3.05 CLOSEOUT

Upon completion and acceptance of load testing, the Contractor shall submit the following closeout documentation:

- A. As-built drawings reflecting actual installed conditions.
- B. Load test certificates and inspection reports.
- C. Manufacturer's operation and maintenance manuals.
- D. Manufacturer's warranty certificate.
- E. Spare parts list and recommended maintenance schedule.

[END OF SECTION]