



Project Name Choctaw Point Container Terminal – Phase V Dock Extension

Location Mobile, Alabama

Project # 11411

Task # 6

March 25, 2026

ADDENDUM NO. 4

Item	Description
DIVISION I – BID DOCUMENTS	
No additions	
DIVISION II – CONTRACT DOCUMENTS	
No additions	
DIVISION III – SPECIAL PROVISIONS	
No additions	
DIVISION IV – GENERAL PROVISIONS	
No additions	
DIVISION V – CONSTRUCTION SPECIFICATIONS	
1	SECTION 261000 – MEDIUM VOLTAGE SWITCHGEAR was added to the project specifications. (attached)
2	Page V-176, paragraph 15.1 should read as follows: “Field tests and inspection for commissioning the Loop-Tap Switch Assembly shall be performed in accordance with only applicable portions of SECTION 261000 - MEDIUM VOLTAGE SWITCHGEAR”
NOTES	
	Contractor Questions (attached)
	Drawing BG5 Rev. G – Backland Transit Storage Yard Grading Plan (attached)



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SECTION 261000 – MEDIUM VOLTAGE SWITCHGEAR

PART 1 – GENERAL

1.0 SCOPE OF WORK

- 1.1 This Section covers the furnishing and installing of medium voltage switchgear from the incoming line terminals to the outgoing line terminals. The CONTRACTOR shall furnish all materials, equipment, tools, labor and supervision to accomplish the work in accordance with this Specification Section and the Contract Drawings
 - 1.1.1 The South Main 23kV Switchgear shall be indoor rated medium voltage switchgear contained in a weatherproof building.
 - 1.1.2 The South Main 23kV Switchgear line-up shall include two 27kV rated incoming power utility sections and ten 23kV feeder sections with a tie breaker. Two separate 30MVA, 2000A bus rated sections to provide approximately 60MVA.
 - 1.1.3 Substations C3 and C4 shall be outdoor rated medium voltage switchgear.
 - 1.1.4 Substations C3 and C4 switchgear line-up shall include a 27kV rated incoming section, a transformer to step down the incoming 23kV to 13.2kV and a 15kV rated feeder section. (For Transformer Requirements refer to Section 261200)
- 1.2 The manufacturer of the switchgear shall furnish and coordinate all major components of the switchgear and provide a single warranty covering all switchgear assemblies and components.
- 1.3 It is the manufacturer’s responsibility to verify that all submitted equipment will meet the requirements of the project as shown in the contract drawings.
- 1.4 Switchgear equipment shall be weatherproof (NEMA 3R), rated for a saltwater environment, rodent proof and shall contain 120V space heaters as required.
- 1.5 The switchgear supplied must meet all of the requirements as specified in these specifications and shown on the contract drawings. Any discrepancies should be



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immediately brought to the attention of the owner’s representative in writing prior to bid. Any discrepancies not brought to the attention of the project representative prior to bid will be the financial responsibility of the contractor to make correct per the owner’s representative understanding of the project requirements.

2.0 REFERENCES

2.1 The medium voltage switchgear shall be designed, assembled, tested, and installed in accordance with latest applicable standards. It shall be the manufacturer’s responsibility to be knowledgeable of these standards and codes. The standards and codes are as follows:

- 2.1.1 National Electrical Manufacturers Association (NEMA)
- 2.1.2 Institute of Electrical and Electronic Engineers (IEEE)
- 2.1.3 National Electric Code (NEC)
- 2.1.4 National Fire Protection Association (NFPA)
- 2.1.5 American National Standards Institute, Inc. (ANSI)
- 2.1.6 Underwriters Laboratories (UL) (shall be UL Labeled)

3.0 DOCUMENTATION

3.1 Submittals - for Review/Approval

- 3.1.1 A submittal review by the Owner’s representative is required prior to fabrication to insure compliance with the specifications. All items in the documents must comply with the specifications and variance will not be accepted unless these items are specifically called out in the documents as a variation from the specifications. If items in the documentation do not meet specifications or design requirements and are not specifically called out as non-compliant but make it through the Review/Approval process and fabrication has started, the manufacturer will still be required make these items compliant at no additional cost to the Owner.
- 3.1.2 All information listed for review should be submitted in one package. A designated manufacturer’s representative that is familiar with this project should be readily available by telephone, during business hours, during the review period to answer all questions.



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- 3.1.3 The following information shall be submitted to the Engineer:
- a. Master drawing index
 - b. Front view elevation
 - c. Floor plan
 - d. Top view
 - e. Single line
 - f. Schematic diagram
 - g. Nameplate schedule
 - h. Component list
 - i. Conduit entry/exit locations
 - j. Assembly ratings including:
 - (i) Short-circuit rating
 - (ii) Voltage
 - (iii) Continuous current
 - (iv) Basic Impulse level
 - k. Major component ratings including:
 - (i) Voltage
 - (ii) Continuous current
 - (iii) Interrupting ratings
 - l. Cable terminal sizes
 - m. Relay information.
 - n. Dimensioned equipment layout.
 - o. Detailed drawings on the Utility Compartment (if required).
 - p. Control drawings.
 - q. Equipment interconnection diagrams.
 - r. Single line diagrams.
 - s. Three-line diagrams.



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- t. Relay control diagrams.
- u. Key interlock scheme drawing and sequence of operation.
- v. Utility compliance where specified herein.
- 3.1.4 After the return of approval drawings or after any change made to previously approved drawings, the manufacturer shall submit a record copy of any and all drawings that contained revisions.
- 3.1.5 Each revision of any drawing/document must have a revision number/letter and the date the revision was issued.
- 3.1.6 After completion of the inspection and testing procedures the manufacturer shall submit a complete set of "as built" drawings. These drawings shall function as a record of the final construction of the equipment at the time it left the factory.
- 3.1.7 Each drawing prepared by the manufacturer shall show, at a minimum, the name, jobsite location, purchase order or contract number, and equipment identification number in addition to any information required by manufacturer.
- 3.2 Submittals -- for Information
 - 3.2.1 When requested by the Engineer the following product information shall be submitted:
 - a. Descriptive bulletins
 - b. Product sheets.
- 3.3 Submittals -- for Closeout
 - 3.3.1 The following information shall be submitted for record purposes:
 - a. Final as-built drawings and information.
 - b. Wiring diagrams
 - c. Certified production test reports
 - d. Installation information.
 - e. Relay settings, certification, and test reports.
 - f. Compliance records from required utility test.



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g. Warranty Information

3.4 Test Documentation

3.4.1 Certified production test reports indicating satisfactory completion of all inspection and test procedures shall be provided (See Section 10.1).

3.5 Operating and Maintenance Manuals

3.5.1 At time of shipment the manufacturer shall provide six (6) copies of the operating and maintenance instructions for all major components contained in the switchgear assembly.

3.5.2 Operation and maintenance manuals shall include the following information:

- a. Instruction books and/or leaflets
- b. Recommended renewal parts list
- c. As-built drawings of the switchgear.

3.5.3 Each complete set of manuals shall be bound and shall contain a table of contents to allow for easy reference.

3.6 Upon completion of the engineering phase, a quotation for one (1) year's recommended spare parts shall be submitted by the manufacturer.

3.7 For all transmittals, submit ten (10) hard copies of all documentation unless otherwise stated herein. In addition to paper copies, all drawings shall be supplied on a CD in AutoCAD 2024 format.

4.0 QUALIFICATIONS

4.1 The manufacturer of the assembly shall be the manufacturer of the major switchgear components within the assembly.

4.2 For the switchgear equipment specified herein, the manufacturer shall be ISO 9000, 9001 or 9002 certified.

4.3 The manufacturer of this equipment shall have produced similar electrical equipment for a minimum period of five (5) years. When requested by the Engineer, an acceptable list of installations with similar equipment shall be



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provided demonstrating compliance with this requirement. Where specified to meet utility compliance, the manufacturer shall have supplied similar equipment within the last three years in the utility service area.

5.0 WARRANTY

5.1 The manufacturer warrants that the equipment specified within this specification will be free from all defects in design, materials, equipment and workmanship, for a period of not less than two (2) years from the **Project Acceptance** date. This warranty shall include all structures, mechanisms and components that are manufactured or provided by the manufacturer. In the event that any part of the equipment appears to be defective in design, manufacture, materials, fabrication, or workmanship within the period of warranty, the Owner will immediately notify the manufacturer in writing of the alleged defect or failure. The manufacturer will thereupon promptly correct any defect or failure without cost to the Owner, or it will authorize the Owner to make, for the manufacturer's account, such repairs or replacements as may be necessary to correct the defect or failure. No allowance will be made for any repairs made by the Owner, or others, unless and until the Owner has given the manufacturer notice of the alleged defect or failure prior to the commencement of such repairs or replacements. However, if the defect is such as to interfere with the Owner's operation, the Owner may, after notification, proceed forthwith to repair the same at the expense of the manufacturer.

6.0 REGULATORY REQUIREMENTS

6.1 All equipment shall meet or exceed the requirements of applicable standards of the local utility if required by the utility.

7.0 DELIVERY, STORAGE AND HANDLING

7.1 Equipment shall be handled and stored in accordance with manufacturer's instructions. One (1) copy of these instructions shall be included with the equipment at time of shipment.

7.2 If the equipment must be delivered prior to the completion of the equipment final installation location, the contractor shall store the equipment at another location per the manufactures requirements. The equipment heaters must be energized at all times by a temporary power source to be supplied by the contractor until the



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permanent power source is energized. The storage location and conditions must be approved by the Owner, the Owner’s Representative and the Manufacturer in writing two weeks prior to delivery.

7.3 Upon request the equipment shall be made available for customer inspection prior to shipment. The Client and Engineer shall be given at least a three (3) weeks written notice prior to the time frame the equipment shall be made available for inspection.

8.0 SERVICE AND ENVIRONMENTAL CONDITIONS

8.1 **Unless otherwise specified**, this equipment is intended for use in ambient temperatures that do not exceed a maximum of 50 degrees C (122 degrees F) or a minimum of –30 degrees C (-22 degrees F).

8.2 This equipment is intended for use in an area where the elevation is less than 3300 feet above sea level. The de-rating as prescribed by ANSI standards due to altitude do not apply.

PART 2 – PRODUCTS

9.0 MEDIUM VOLTAGE SWITCHGEAR

9.1 Approved Manufacturers:

9.1.1 Siemens

9.1.2 ABB

9.1.3 General Electric

9.1.4 Cutler Hammer

9.1.5 Other manufacturer’s must be submitted and approved by the Engineer.

9.2 Ratings -- Switchgear, Switch and Circuit breaker

9.2.1 The switchgear shall be designed in accordance with ANSI Standards C37.20.3, C37.20.4, C37.22, C37.57, C37.58 and NEMA Standards SG5 & SG6. The 15kV section shall be UL Listed.



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- 9.2.2 The circuit breaker cell rated as shown in 9.2.6 with bus connection to main bus, cell studs with polyester glass spouts, automatic isolating shutters, and cell interlocks as required by ANSI.
- 9.2.3 The runback bus shall be silver plated copper.
- 9.2.4 Each drawout vacuum circuit breaker shall be provided with all required contacts and a minimum of 2 “a” and 2 “b” spare contacts.
- 9.2.5 The circuit breaker shall have two LED status indicating lights, three current transformers, single ratio standard burden, one zero sequence ground current transformer.
- 9.2.6 The switchgear assembly ratings shall be as follows:

Rating	27kV Section	15kV Section
Maximum Design Voltage	27.0 kV	15.0 kV
Basic Impulse Level	125kV	95 kV
Nominal System Voltage	23.0 kV three-phase, three wire	13.2 kV three-phase, three wire
System Grounding	Solid Ground	High-Resistance
Main Bus Continuous Current Rating	2000A	1200A
Switch Continuous and Load Break Current Rating	2000A	1200A
Switch Fault-Close & Momentary Amp kA ms Asym	26 kA	58 kA
Switch Short Time (3 sec) Current Carrying Capability	16 kA	36 kA
Rated Momentary Current kA rms Asym	16 kA	36 kA
Circuit Breaker Nominal 3-Phase MVA Class	750 MVA	750 MVA
Close and Trip Voltage	120 VAC	120 VAC



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9.3 Basic Construction

9.3.1 The equipment supplied shall be NEMA 3R construction and shall consist of indoor type circuit breaker and auxiliary cell located in a totally enclosed weatherproof steel housing. Housing shall be rated for saltwater environment.

9.3.2 Any required ventilation air from outside must be filtered for saltwater moisture.

9.3.3 The equipment shall be suitable for industrial or utility service.

9.3.4 The equipment shall be listed and labeled as suitable for Service Entrance.

9.3.5 This equipment shall be factory equipped such that additional sections can be added later without nullifying the listing and labeling of the switchgear unit or requiring it to be field labeled.

9.3.6 Front Compartment Doors:

- a. Each compartment housing a medium voltage device shall be provided with steel hinged door(s).
- b. The door(s) shall be provided with provisions for padlocking and a view window for observing circuit breaker position.
- c. No tie down bolts or other manual means shall be used to secure the door. A single handle must be provided to operate all required latching.

9.3.7 Rear Compartment Doors:

- a. Each rear compartment shall be provided with steel hinged door(s).
- b. Each rear compartment door shall be bolted shut and be provided with provisions for padlocking.
- c. A single handle is required to operate all required latching. Additional tie down bolt are acceptable.
- d. Each rear compartment shall be provided with signage indicating all potential dangers to personnel. This sign should also indicate all measures to be taken before access to this compartment is considered safe.



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- 9.3.8 Louvers may be provided in the switchgear for ventilation or cooling purposes. These openings shall be filtered to retard the entrance of dust and saltwater moisture. Filters shall be easily removable for maintenance.
- 9.3.9 Design must conform to the applicable IEEE standard construction.
- 9.3.10 It shall be the manufacturer's responsibility to coordinate all necessary alignment and interconnection between component sections. The entire assembly must be electrically and mechanically assembled into one single line-up prior to final inspection and shipment.
- 9.3.11 The equipment must be shipped complete, without missing components or "ship shorts". Purchaser may waive this requirement upon request prior to shipment.
- 9.3.12 To facilitate ease of handling, each shipping section will be no more than two (2) vertical structures. Each shipping section shall be provided with lifting lugs adequately sized for the equipment.
- 9.3.13 Power circuit breakers shall be shipped and packaged separately from the switchgear structure.
- 9.3.14 The depth of the finished equipment shall be sufficient to allow for entrance, bending, and termination of power cables. Individual units shall be provided for top or bottom entrance as specified. A minimum of 30 inches of clearance between terminal pads and the cable entrance shall be provided.
- 9.3.15 Main bus supports between vertical sections of switchgear and inserts shall be constructed of polyester glass of suitable thickness. All material in this assembly shall be flame retardant and track resistant.
- 9.3.16 Bus standoff insulators shall be of polyester material.
- 9.3.17 Power circuit breakers and voltage transformer assemblies shall be drawout construction to provide maximum operator safety.
- 9.3.18 Safety interlocks and barriers as required by ANSI standards shall be provided to prevent personnel from inadvertent exposure to the bus while the switchgear is energized.
- 9.3.19** A continuous tin-plated copper ground bus measuring ¼" x 2" shall be provided for the full length of the switchgear assembly. The ground bus



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shall be capable of carrying the rated short circuit current of the installed circuit breakers for a minimum of 2 seconds. **The 15kV feeder switchgear shall have two separate ground buses, one for normal equipment ground and one for isolated equipment ground. The isolated equipment ground shall be completely isolated and not connected to any other internal grounding system or structural steel. The isolated ground bus shall be permanently labeled as such.**

9.4 Power Circuit Breakers

- 9.4.1 The power circuit breakers shall be electrically operated, three pole, drawout type. The interrupting medium shall be vacuum.
- 9.4.2 Primary line and load connections shall be self-aligning.
- 9.4.3 The drawout mechanism shall hold the power circuit breaker rigidly in the fully connected position.
- 9.4.4 The drawout mechanism shall require less than 25 turns to move the circuit breaker from the connected to the disconnected positions.
- 9.4.5 Each circuit breaker will have four (4) wheels to allow for easy maintenance and movement.
- 9.4.6 A Lift Truck shall be provided to move a circuit breaker from floor level to the fully connected position.
- 9.4.7 Interlocks shall be provided to prevent the circuit breaker from disconnecting from the main bus stabs unless the circuit breaker is open.
- 9.4.8 The power circuit breaker ground connection must be capable of carrying the short circuit rating of the circuit breaker for a minimum of 3 seconds and must also be capable of withstanding the peak current value (or 2.7 times the rated short circuit current) of the circuit breaker.
- 9.4.9 A grounded metal shutter system shall automatically cover the line and load stab connections when the circuit breaker unit is moved to the disconnected position. The shutter shall be padlockable in the closed position.
- 9.4.10 Auxiliary contacts to provide circuit breaker element position indication (Truck Operated Cell switch or TOC) and to provide circuit breaker contact position (Mechanism Operated Cell switch or MOC) shall be



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provided. Both switch operator and switch must be visible and accessible from the front of the low voltage compartment when the circuit breaker is in the fully connected position.

9.4.11 Circuit breaker operating mechanism shall be completely trip free both mechanically and electrically.

9.4.12 Control power and control circuit wiring shall be connected to the power circuit breaker by means of a self-aligning system that is automatically connected when the breaker is inserted in the test position and remains connected when the breaker is racked into the connected position.

9.4.13 For operator safety the circuit breaker shall have provision for padlocking it in the disconnected position.

9.4.14 Each circuit breaker shall have a mechanical operations counter.

9.4.15 Each circuit breaker shall have an easily accessible means for contact wear indication.

9.5 Power Bus

9.5.1 Main power bus shall be silver-plated copper bar with silver plated joints.

9.5.2 The entire bus, except for joints and terminations, shall be completely isolated with metal barriers and insulated with non-removable and flame-retardant coating. Field applied insulation shall be approved by Engineer prior to application. Alternatively, exposed connections, including the cable connections points, shall be covered with removable boots which do not require field taping of the joints and connections.

9.5.3 The main power bus shall be supported on insulators and mechanically braced to withstand stresses resulting from current values equivalent to the close and latch rating of the largest circuit breaker in the assembly. Bus stand-offs shall be porcelain and the main bus supports shall be polyester glass.

9.5.4 Molded polyester is required whenever bus passes through a barrier of any type on 15 kV and above applications.

9.5.5 Bus joints shall be made with sufficient bolts and torqued to preserve initial contact pressure over the service life of the equipment. Bolts that



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are torqued to appropriate levels at the factory shall be identified with paint markings. Bolts shall be rated Grade 5 and plated for corrosion resistance.

- 9.5.6 Power bus orientation shall be A-B-C top to bottom, front to back, and left to right when viewed from the front of the switchgear.
- 9.5.7 A bare ground bus shall be provided and be supplied throughout the switchgear. (See 9.3.19)

9.6 Current Transformers (CT)

- 9.6.1 Current transformers shall be installed so that they can be easily maintained or replaced from the front of the switchgear without entering the power bus or cable termination compartments. Unless specified otherwise, the polarity marking shall be toward the circuit breaker.
- 9.6.2 Each current transformer shall be rated to withstand the thermal and mechanical stresses imposed by the short circuit rating of the applied circuit breaker.
- 9.6.3 The secondary termination of current transformers shall be on a shorting terminal block.
- 9.6.4 Current transformers shall have a rated 5 ampere secondary current unless otherwise specified.
- 9.6.5 Current transformers, when installed, shall be fully rated for the appropriate voltage class. Current transformers with 600 volt insulation levels may be used if installed with fully rated insulation barriers such as around primary disconnect bushing assemblies.

9.7 Voltage Transformers (VT)

- 9.7.1 Voltage transformers and associated fuse assemblies shall be installed in drawout assemblies so that they may be readily disengaged from the power bus.
- 9.7.2 Where physical size restrictions do not allow the voltage transformer to be mounted in a drawout assembly, the voltage transformer may be stationary mounted with the fuses only mounted in the drawout unit. The appropriate interlocks shall be provided to insure maximum operator safety.



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- a. When voltage transformers are mounted in a drawout assembly, they shall be disconnected from the primary by a racking system similar to the circuit breakers that will allow the transformer to be disconnected with the compartment door closed.
 - b. When the voltage transformer is stationary mounted with fuses in a drawout assembly, the fuse assembly shall be disconnected from the primary by a racking system similar to the circuit breakers that will allow disconnecting with the compartment door closed.
- 9.7.3 When moved to the withdrawn position, the transformer drawout unit shall automatically ground the transformer primary windings and the fuses. The ground may not be a momentary or sweeping action, but must be maintained as long as the drawout assembly is not in the connected position.
- 9.7.4 Voltage transformers shall have 120-volt secondaries unless otherwise specified.
- 9.7.5 Voltage transformers shall have an accuracy rating comparable to the metering equipment and a burden capacity equal to twice the initial load.
- 9.7.6 Current limiting fuse protection shall be provided on the primary side of each voltage transformer.
- 9.7.7 Voltage transformers shall be designed to withstand the basic impulse level of the switchgear.
- 9.8 Control Power Transformers (CPT)
- 9.8.1 Control power transformers shall be fixed mounted for sizes above 15 kVA with the primary current limiting fuses mounted in a drawout unit.
 - 9.8.2 Fuse assemblies shall be disconnected from the primary by a racking system similar to the circuit breakers that will allow disconnecting with the compartment door closed.
 - 9.8.3 When moved to the withdrawn position, the fuse drawout unit shall automatically ground the fuses. The ground may not be a momentary or sweeping action, but must be maintained while the drawout assembly is not in the connected position.



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9.8.4 Each control power transformer shall have a secondary molded case circuit breaker interlocked with the drawout assembly so that the load is disconnected prior to drawout.

9.8.5 All control power transformers shall be provided with one (1) 7 1/2% tap above and below rated voltage.

9.8.6 Secondary winding shall be 120/240VAC, single phase, 60Hz, 3 wire unless otherwise specified.

9.9 Control and Secondary Wiring

9.9.1 Control wiring shall be SIS type #14 AWG, 41 strand extra flexible, stranded copper or larger.

9.9.2 Current transformer secondary wiring shall be SIS type #12 AWG, 65 strand extra flexible, stranded copper or larger.

9.9.3 Current transformer secondary wiring shall terminate on shorting type terminal blocks.

9.9.4 All control wiring shall be UL listed and have a VW-1 flame retardant rating.

9.9.5 Exposed wiring shall be suitably protected against contact with sharp edges. Throughout the assembly it must be neatly bundled and secured with nylon wire ties. Where control wiring passes from cubicle to door it must be wrapped with suitable protection so as to prevent damage. Holes cut to allow control wires to pass from cubicle to cubicle will have a grommet for protection.

9.9.6 Splicing of control wire is not permitted. Control wiring must be a continuous length from terminal to terminal.

9.9.7 Each control wire shall be marked at both terminations to agree with wiring diagrams. Plastic wire markers of either the slip on or heat shrink variety shall be provided.

9.9.8 All control wires leaving the cubicle of origin must first terminate on a terminal block. No control wire may leave a cubicle directly from any other device.

9.9.9 Where possible, a minimum of 10% spare terminals shall be provided in each cubicle.



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9.10 Meters, Switches, and Relays

9.10.1 Indicating meters shall be 1% accuracy, 4½" square switchboard type, with taut band suspension unless otherwise specified.

9.10.2 Control switches shall be rotary cam type with engraved face plates.

9.10.3 Ammeter and voltmeter transfer switches shall have an off position and shall be provided with knurled knob handles.

9.10.4 Selector type control switches (Auto-Manual or Hand-Off-Auto) shall have oval handles.

9.10.5 Circuit breaker control switches shall have pistol grip handles.

9.10.6 Protective relays shall be switchboard drawout type with removable dust tight viewing covers, front accessible connection plugs, built-in test capability, and mechanical targets that may be externally reset. Other electronic or multi-function relays may be specified for particular applications.

9.10.7 Current and voltage test plugs for field monitoring and maintenance shall be provided when specified.

9.10.8 Indicating lights shall be provided when specified on the control schemes. Lamps shall be replaceable from the front of the switchgear without opening the cubicle door.

9.11 Nameplates

9.11.1 Laminated plastic engraved nameplates shall be provided.

9.11.2 Identification nameplates shall be white with black letters, caution nameplates shall be yellow with black letters, and warning nameplates shall be red with white letters.

9.11.3 Each externally visible device or component shall have an identification nameplate. Lettering shall be, at a minimum, 5/32 inches in height.

9.11.4 Each internal device or component shall have an identification marking.

9.12 Finish

9.12.1 All steel structure members shall be cleaned, rinsed, and phosphatized prior to painting.



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- 9.12.2 Coating process shall be an electrostatically applied polyester powder with a final baked on average thickness between 1.5 and 2.0 mils. (Must be suitable for saltwater environment)
- 9.12.3 Standard exterior finish will be ANSI 61 or ANSI 70 light gray (Must be approved by the owner prior to application).
- 9.12.4 Finish shall have a minimum pencil hardness of 2H as tested per ASTM D3363.
- 9.12.5 Finish shall pass the ASTM B117 salt spray test for a minimum of 1500 hours.
- 9.12.6 Finish shall pass impact testing per ASTM D2794 with minimum values of 160 in-lb. for direct impact and 120 in-lb. for reverse impact.
- 9.13 Complete assembly shall have a low frequency withstand (an ac high potential) test performed to assure insulation system integrity.
- 9.14 Manufacturer shall have in place a system of recording, correcting, and verifying resolution of discrepancies discovered during the inspection and testing process.
- 9.15 Trip Units
- 9.15.1 The switchgear manufacturer shall furnish and install, in the switchgear, the quantity, type and rating of protection relays as required by the nature of this project and as indicated on the drawings and described hereinafter in this specification.
- 9.15.2 Microprocessor Three-Phase Protective Relay. One required for each main and feeder circuit breaker.
- 9.15.3 Relays for phase time over-current, instantaneous over-current protection, ANSI 50/51, 50/51N, 50/51G, shall be incorporated into a single device having the features specified herein:
- Microprocessor based
 - 5 Amp CT input.
 - 120 VAC control power
 - Shall be a single static drawout relay.
 - Shall have selectable pick-up ranges that can easily be changed on-site.



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-
- f. Three phase (51) and ground (51G) time overcurrent
 - g. Three phase (50) and ground (50G) instantaneous overcurrent
 - h. Independent phase and ground curves; ANSI, IAC or IEC/BS142 curve shapes: definite time, moderately inverse, normal inverse, very inverse, extremely inverse
 - i. 40 “time dials” for phase and ground time overcurrent curves
 - j. Separate pickup level and output relay for each protection element
 - k. Three outputs: trip, auxiliary trip, and service
 - l. Eight additional output relays shall be an option, one for each protection element
 - m. Trip record: display of last five trips
 - n. The relay shall have front panel LED indicators for cause of trip, pickup, relay in service, relay malfunction
 - o. A clear key shall be available to clear the cause of trip indicators.
 - p. A phase current indicator will be provided on the front panel.
 - q. The relay shall comply with surge withstand capability (SWC) standards such as ANSI C37.90 and IEC 255.4.
- 9.15.4 Relay alarm and/or trip contacts shall not change state if power is lost or an under-voltage occurs. These contacts shall only cause a trip upon detection of an over-current or fault condition based upon programmed settings.
- 9.16 Ground Check Relay
- 9.16.1 Each feeder breaker shall be equipped with a ground check relay as required by NEC for mobile equipment feeder cables.
- 9.17 Lockout Relay
- 9.17.1 Lockout relays, Device 86, shall be included as shown in the construction drawings.
- 9.18 Undervoltage Relay



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9.18.1 Undervoltage relays, Device 27, shall be included as shown in the construction drawings.

9.19 Wiring/Terminations

9.19.1 One (1) terminal pad per phase shall be provided for attaching cable terminal lugs for a maximum of two (2) conductors per phase of the sizes indicated on the drawings. Sufficient space shall be supplied for electrical stress relief termination devices.

9.19.2 Small wiring, fuse blocks and terminal blocks within the vertical section shall be furnished. Each control wire shall be labeled with wire markers. Terminal blocks shall be provided for customer connections to other apparatus.

9.20 Accessories

9.20.1 Coordination Key assemblies shall be provided as shown on the contract drawings and are required to match the systems supplied with the container cranes. The type and brand shall be coordinated with the project and approved by the Engineer prior to installation.

9.20.2 15 kV intermediate class surge arresters shall be provided connected at the load side terminations of each main and feeder termination and securely grounded to the metal structure as shown on the drawings. The arresters shall be gap type and rated at line voltage due to the high resistance ground system.

9.20.3 Control power transformers, as called for in 9.8 shall be rated as shown on the contract drawings. The control power transformer shall supply the 120/240V power for all of the requirements of the substation yard as shown in the contract drawings.

9.20.4 Include the following items: One manual charging handle, one circuit breaker racking handle, one interlock override, one circuit breaker test cabinet, and one circuit breaker lift truck.

9.20.5 Ground Studs. Provide OSHA approved type “Ball and Socket” designed ground studs on each bus phase and on the ground bus which is extended outside the cubicle (where practical) to permit connection of portable ground cables. The ground studs shall be capped when not in use. The ground stud cap shall be so constructed for easy removal with



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a shotgun type of “hotstick”. The ground studs shall be provided in the incoming termination section of each main.

- 9.20.6 Ground Cables. Provide one set (three required) of 4/0 AWG, 600 volt insulated, EPR portable ground cables with appropriate ground clamps. The grounding cables shall be approximately 10 foot in length and shall have a threaded grounding ferrule installed on each end. One end of the three phase cables shall have a grounding clamp and the other end shall be joined together at a three way grounding terminal block and a socket type grounding clamp.
- 9.20.7 Heaters: This equipment shall be equipped with the appropriate number and size of heaters that are required to protect this equipment from any adverse effects that may be caused by high humidity. These heaters should be temperature controlled by an adjustable device to cause the heaters to turn on and off automatically.

PART 3 – EXECUTION

10.0 FACTORY/PRODUCTION TESTING

- 10.1.1 Each circuit breaker shall be tested for proper adjustment and operation prior to shipment. The circuit breaker shall be given a minimum of 100 mechanical operations. Test reports shall be available upon request.
- 10.1.2 Entire assembly shall have electrical operation and control wiring tests including correctness of wiring and insulation tests, polarity, verification and sequence tests.
- 10.1.3 Each vacuum interrupter shall receive a vacuum integrity test by means of the system ac high potential test prior to shipment.
- 10.1.4 Each circuit breaker shall have a contact timing and contact motion velocity test.
- 10.1.5 The following standard factory tests shall be performed. All tests shall be in accordance with the latest version of ANSI and NEMA standards.
- a. The switchgear shall be completely assembled, wired, adjusted, and tested at the factory. After assembly, the complete switchgear shall be tested to assure the accuracy of the wiring and the functioning of all equipment. .



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b. Production tests shall be performed in accordance with all applicable ANSI standards. These tests shall include, but not limited to, those defined by ANSI standards C37.20.2, C37.04, C37.06 and C37.09.

10.1.6 The manufacturer shall provide three (3) certified copies of factory test reports.

10.1.7 Factory tests as outlined above shall be witnessed by the owner and/or owner's representative. The manufacturer shall notify the owner in writing two (2) weeks prior to the date the tests are to be performed. Upon notifying the owner, this requirement may be waived at the owner's discretion.

10.2 Start-Up and Commissioning

10.2.1 The manufacturer shall supply a factory certified engineer for a minimum of three (3) days during startup.

10.2.2 The three (3) copies of the manufacturer's field start-up report shall be supplied after completion.

10.3 Relay Test and Certification

10.3.1 Prior to start-up, each circuit breaker and relay shall be set, tested and certified by a manufacturer's certified factory engineer. The equipment will not be approved until the Engineer is satisfied with the technician's qualifications. All test reports and certifications shall be supplied to the Engineer for approval.

10.4 Field Applied Insulation

10.4.1 All exposed medium voltage bus connections and terminations shall be insulated by a method approved by the manufacturer of the equipment. The contractor shall supply in writing the method in which they would like to field insulate these items.

10.5 Field Adjustments

10.5.1 During construction, a manufacturer's certified factory engineer shall provide technical direction and assistance to the Contractor in general assembly of the equipment, connections and adjustments, and testing of the assembly and components contained herein. This engineer shall



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provide a letter to the Owner certifying that the equipment has been assembled correctly prior to energizing the equipment.

10.6 Manufacturer's Certification

10.6.1 A qualified manufacturer's certified factory engineer shall certify in writing that the equipment has been installed, adjusted and tested in accordance with the manufacturer's recommendations.

10.6.2 The manufacturer shall provide three (3) copies of the manufacturer's representative's certification.

10.7 Final inspection and testing by the manufacturer's certified factory engineer:

10.7.1 Component bill of material shall be checked for proper quantity, description, and part number.

10.7.2 Physical dimensions shall be checked against approved drawings.

10.7.3 Equipment shall be subjected to a primary current injection procedure to determine proper operation of all current sensitive components.

10.7.4 Equipment shall be subjected to a primary voltage injection procedure to determine proper operation of all voltage sensitive components.

10.8 Training

10.8.1 The manufacturer shall provide a structured training session for up to two Owner's representative for one normal workday at the jobsite.

10.8.2 Training shall not be performed during period of start-up or commissioning.

10.8.3 The training session shall be conducted by a manufacturer's qualified representative. The training program shall include instructions on the assembly including primary equipment, transformer and secondary equipment. All circuit breakers, protective devices and other major components shall be included.

END OF SECTION

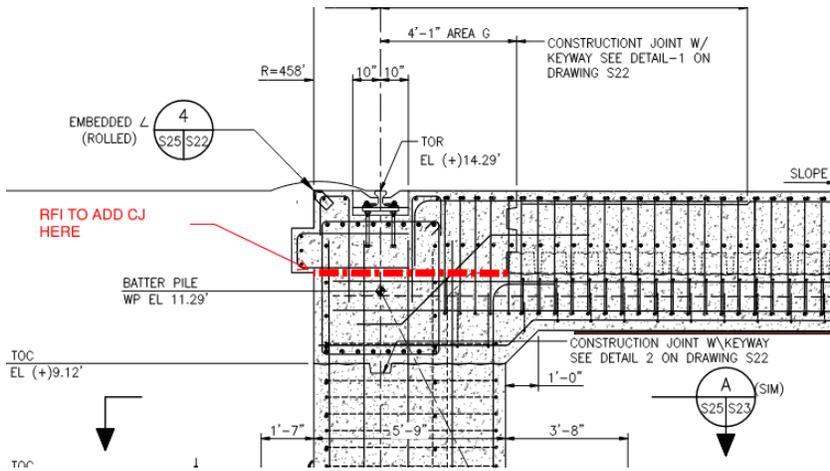
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1. Drawing S45, detail 4, shows jacking bolts for leveling the plate. Detail 1 shows a hex leveling nut to level the plate. Can the contractor, in lieu of using the hex leveling nut use a jacking bolt to level the plates which is the current industry standard?
 - **Jacking bolts are acceptable.**
2. Drawing S45, detail 4, shows the anchor bolt pattern, the leveling bolt pattern, and the clip pattern for an expansion joint. No detail similar to number 4 for a standard 10-foot plate is provided. Please furnish a drawing showing the anchor bolt, leveling bolt, and the clip pattern for a 10-foot plate.
 - **The supplier of the crane rail system is responsible for the design and details as specified in Section 412200 – Crane Rails and Appurtenances.**
3. Drawing S45, details 1 and 2, show a quarter inch thick steel rail support plate. Most ports have gone to a rubber/metal pad. Does the port want a rubber/metal pad or the pad as drawn?
 - **The steel plate as indicated on the drawing is to be used.**
4. Please provide the degree of curvature of the crane rails on the water side rail. Does the owner want pre-bent crane rail?
 - **18.35 degrees. Owner does not have a preference. The contractor and rail supplier are responsible for furnishing and installation of the rail per the contract documents.**
5. The drawing shows 5 deck expansion joints. Does every deck expansion joint have a crane rail expansion joint?
 - **No. The southern expansion joint adjacent to existing dock 3 will not have a crane rail expansion joint.**
6. Should we plan on making thermite welds to the existing APM and McDuffie dock crane rails? What rail size or section is the crane rails at the APM and McDuffie docks?
 - **Thermite welds are expected to join the existing APM crane rails to the new crane rails. The existing APM crane rail is CR 171. The McDuffie dock crane rails are not to be joined to the crane rails of this project.**
7. Will the owner pay 100% for stored material if stored on Port property to reduce price escalation?

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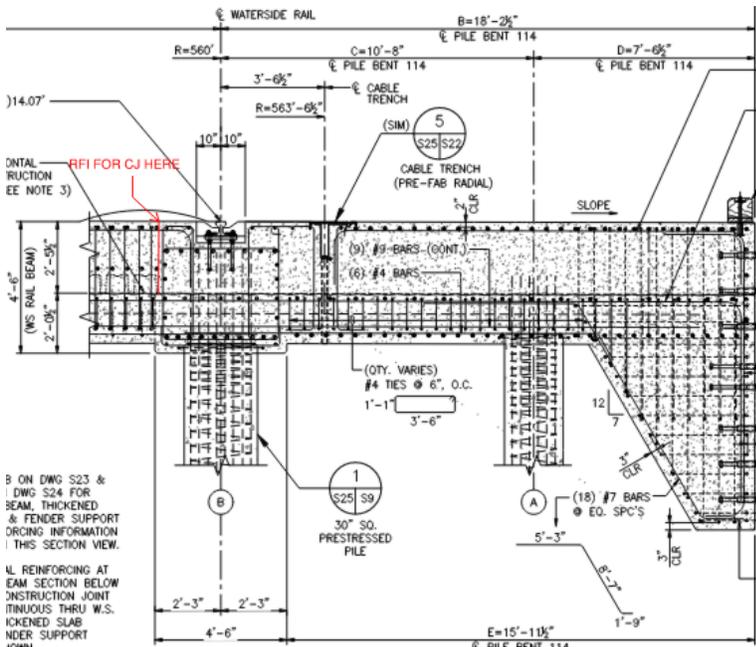
- The contractor may invoice for delivered materials according to the specification.
8. Section 412200, Paragraph 4.5 on page 5 of 5 states thermite welding shall be supervised by a thermite weld kit manufacturer representative. Is this a requirement for every weld or just the first day of welding? If every weld is the owner's intent, considerable extra cost will apply to the welding work.
- Every Thermite weld is to be supervised by a thermite weld kit manufacturer.
Note that Addendum 2 states flash welding of the rail joints is acceptable.
9. The drawings U1 and U2 call out water piping as being 3” sch40 galvanized steel pipe and (assuming) threaded fittings, but the spec section-331100 under division 33 calls for all potable water pipe and fittings to be cement lined ductile iron push-joint/ flanged . Can you confirm which spec we need to follow?
- The potable water piping is to be cement lined ductile iron pipe with push on joints for underground installation and flanged joints for above ground installation.
10. For clarification on the waterline scope of work (drawings U1 and U2), you are asking for us to provide and install 5 new water lines and water stations and just cap the piping roughly 100’ away under the proposed concrete is that correct?
- Yes.
11. Drawing G4 states the rip rap shall be stockpiled for re-use as bank protection material. Please confirm reinstallation of rip rap as bank protection is excluded from this contract.
- Reinstallation of the removed rip rap is not part of this contract.
12. It has been confirmed dredging to final cut is excluded from this contract. If dredging is required as part of the design, please provide an estimated timeline when dredging is going to be completed by others.
- No dredging is required.
13. Drawing S25. Clarify if below detail for construction joint is acceptable to maintain the same elevation of the initial concrete pour across the entire area:

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- No, the construction joint is to be as shown.

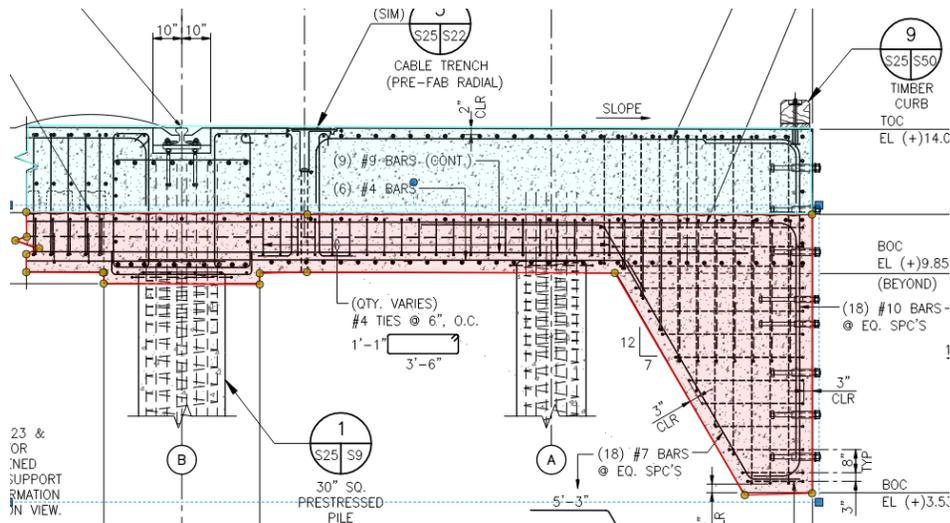
14. Drawing S25. Clarify if below detail for construction joint is acceptable to allow secondary concrete pour waterside of crane rail:



- No.

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15. Drawing S25. Clarify if first concrete pour (red), once poured and cured, was designed to support second concrete pour (blue) without requiring any temporary shoring support.



- Yes.

16. Section 262816 15.1 references medium voltage system commissioning tests section 16998. This section is not in the specifications. Can you provide the commissioning spec section?

- Refer to specification 261000 included in this addendum.

17. Section 261200 1.1 and 9.3.1 references a 23KV /4.16V unit substation transformer. Single line drawings sheet E8 shows as 23KV/13.8KV. Assuming that the single line is correct?

- Yes.

18. Are alternate transformers acceptable? Specifications only list Siemens, Cutler Hammer and ABB.

- Yes.

19. There are no technical specifications for the 23KV SWGR, E-House or 15KV SWGR. Please advise.

- Refer to specification 261000 included in this addendum.

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20. Bid Specification Section 412200 Crane Rails and Appurtenances, Section 2.6 Epoxy Grout indicates that any grout outside of the listed production would require the Engineers Approval. Would the EOR accept the Atlantic Track CRS Epoxy Grout, which meets all performance requirements set forth in section 2.6?

	Specification	Atlantic Track CRS Epoxy Grout (Per TDS and 3 rd Party Testing)
Compressive Strength	13,000 psi @ 7 days	15,900 psi @ 7 days
Tensile Strength	2,000 psi	2,077 psi
Flexural Strength	4,000 psi	5,390 psi

- The Atlantic Track CRS epoxy grout is acceptable.

21. Is the Fused 100A 15KV Disconnect Switch Nema 3R or 4X for the temporary lighting rack?

- 4X

22. Is the Mini Power Station for the temporary lighting rack Nema 3R or 4X?

- 4X

23. Is the Lighting Contactor for the temporary lighting Nema 3R or 4X?

- 4X

24. What fixture shall be used for the temporary lighting. It seems the mentioned fixture on the drawing is obsolete, or not the correct part number. Could we assume the fixtures to be LED?

- Yes and equivalent to 1000W

25. Please provide a specification on the proposed 23KV Switchgear.

- See specification 261000 included in this addendum.

26. Is it the Engineers intent for the ¼” Steel Shim underneath the Crane Rail to be Bare Steel, Painted or Galvanized?

- Both the ¼” shim plate and the soleplate are to be hot dipped galvanized.

27. Please provide specs for the MV switchgear or the E-house for the 22.9 kV gear.

There are notes on drawing 131 that reference the Eaton as built towards the end of the drawing package, but we could not find any specs.

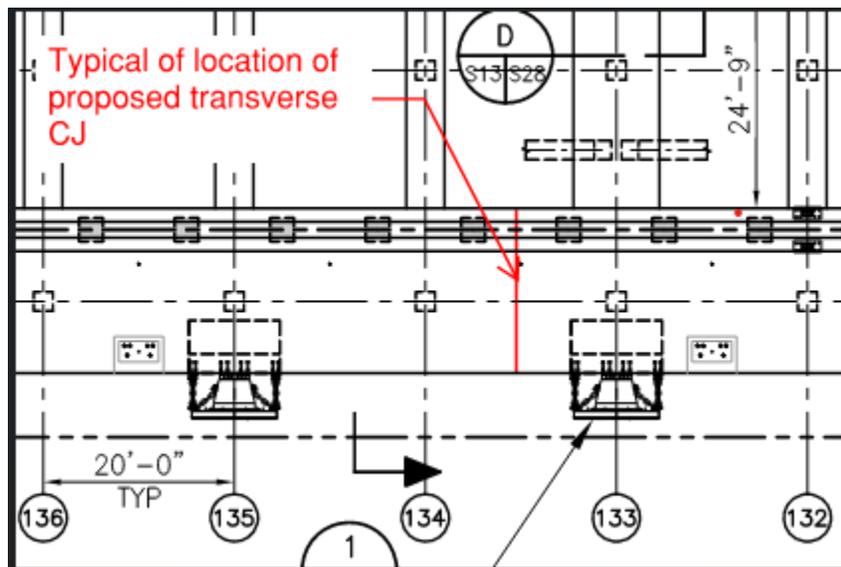
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- See specification 261000 included in this addendum.

28. Will transverse construction joints, between the expansion joints, be allowed in the concrete deck?

- Transverse construction joint(s) will be allowed across the width of the dock at locations agreed upon by the engineer and contractor.

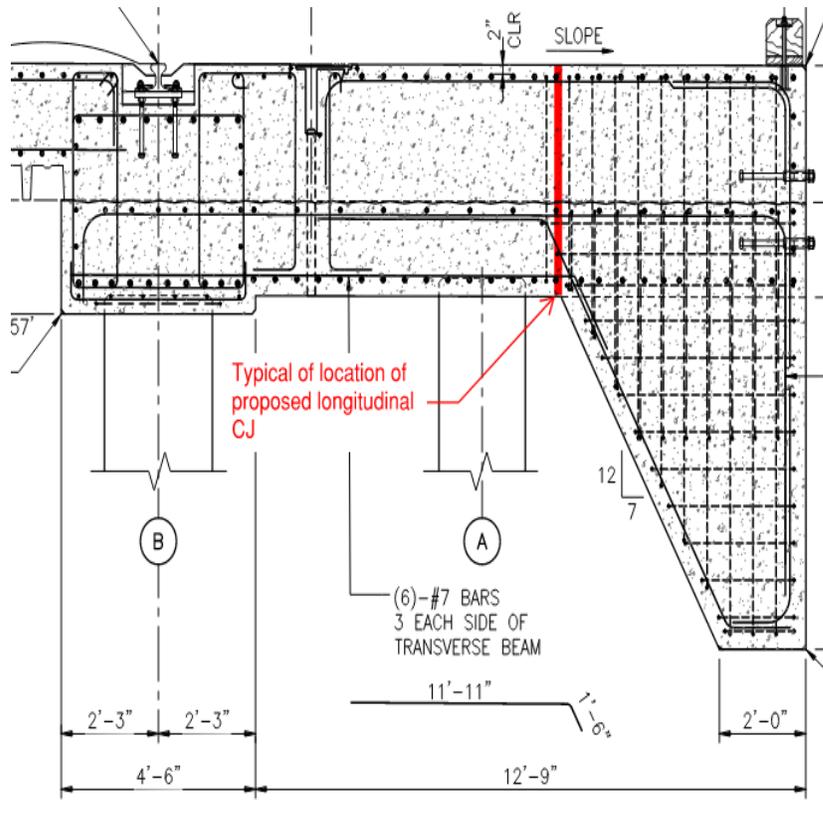
29. For the area below the called out horizontal construction joint, between the water side rail to the fender support haunch. Will transverse construction joints be allowed from pile line B to end of dock? This will typically be located halfway between the expansion joints in each area.



- Transverse construction joint(s) will be allowed across the width of the dock at locations agreed upon by the engineer and contractor.

30. Will a longitudinal construction joint be allowed between pile line A and the haunch?

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- No.

31. SECTION 111313 – FENDER SYSTEM. Regarding the testing requirements in 3.6.4: *All testing must be conducted in the United States of America and shall either be witnessed by a recognized accreditation agency such as Lloyds Register or conducted by a 3rd party independent laboratory. Velocity corrections will not be allowed nor will scale model tests be allowed as an alternative. The Port Authority reserves the right to retest selected fender elements.* Question: Is "all testing" mentioned in 3.6.4 above related to 3.6.1 (20% of supplied fenders), or is this for all fenders supplied?

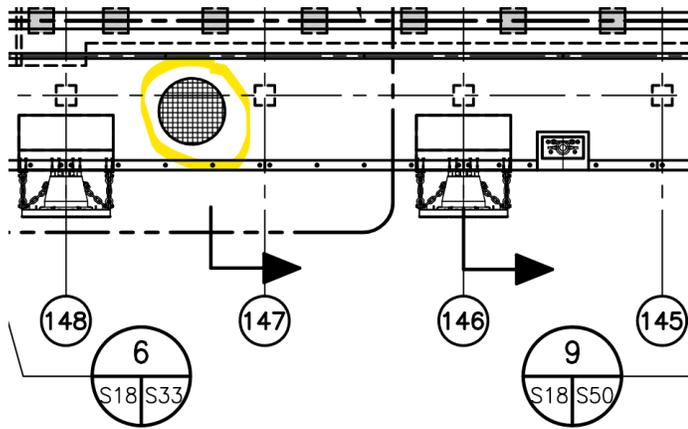
- 20% of supplied fenders

32. SECTION 111313 – FENDER SYSTEM. Addendum 3. PIANC guideline requires 10% quantity to be tested. Please confirm if 20% quantity is to be tested at manufacturing locations? Or in USA at independent test facility?

- 20% in USA at independent test facility

33. Confirm LSMD is not required in the cantilever thick slab section. What is the highlighted detail representing in that section?

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- LSMD is not required outboard of the waterside crane rail beam. The circular highlighted area indicates reinforcing steel.
34. Section 1.2 of the Cable Trench System Specs states the preferred supplier is Gantrex USA while Section 2.1 states the prefabricated cable trench system shall be a Super Panzerbelt System made by Cavotec SA. Whose system is Contractor to furnish and install, Gantrex or Cavotec?
- Refer to question 7 of Addendum 3.
35. Special Provision SP-02 states APA will authorize the Contractor to utilize its sales tax exemption status on this project and subsequently deletes Sections 20-14.2, 20-14.3, 20-14.4, 20-14.5, and 20-14.7 of Division IV General Provisions. These deleted sections provide the procedures Contractor must follow in order to achieve sales tax exemption. Please provide the revised procedure that Contractor must follow in order to utilize the sales tax exemption.
- The Port will provide the application for Sales & Use Tax Certificate of Exemption along with the Notice of Intent to Award. The contractor will follow directions found at www.revenue.alabama.gov.
36. Additionally, SP-02 deletes Section 14.5.1.1 where the Contractor is to provide a list of items to be purchased by the Owner in order to claim exemption from sales tax. Since the Contractor does not supply this list now, does the Owner have a list of items it intends to purchase so Contractor can delete the sales tax on these items in its bid?
- The Port does not intend to purchase any material. The contractor is responsible for purchasing materials and utilizing the sales tax exemption status authorized by APA.

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37. Note 4 states construction joints shall be at a maximum spacing of 70 feet. To which specific concrete item(s) is this note referring?
- Construction joints will be permitted to be spaced further than 70 feet. Engineer and Contractor to agree on construction joint locations.
38. When does the Owner expect to issue to Notice to Proceed?
- It is expected that a Notice to Proceed to be issued within 30 days of the bid opening.
39. Prebid Q&A #6 (p 20) and Contractor Q&A #27 (p 66) both state the 30-inch and 24-inch concrete piles production piles may all be ordered ONLY after the test results from the two static load tests have been submitted to the Engineer and final lengths are provided by the Engineer based on these load test results. Does this requirement also apply to the 6:12 battered 24-inch piles in the combi-wall cap?
- Yes.
40. Please confirm that pile lengths are set based on the test results from the two static load tests and the purpose of the probe piles is to verify pile capacity.
- Yes.
41. Is the Fused 100A 15KV Disconnect Switch Nema 3R or 4X for the temporary lighting rack?
- 4X
42. Is the Mini Power Station for the temporary lighting rack Nema 3R or 4X?
- 4X
43. Is the Lighting Contactor for the temporary lighting Nema 3R or 4X?
- 4X
44. What fixture shall be used for the temporary lighting? It appears the mentioned fixture on the drawing is obsolete or not the correct part number. Also, are the fixtures to be LED?
- An LED fixture equivalent to 1000W.
45. Is potable water available on site that the Contractor can use during production pile installation provided it is metered? If so, what is the water flow rate?

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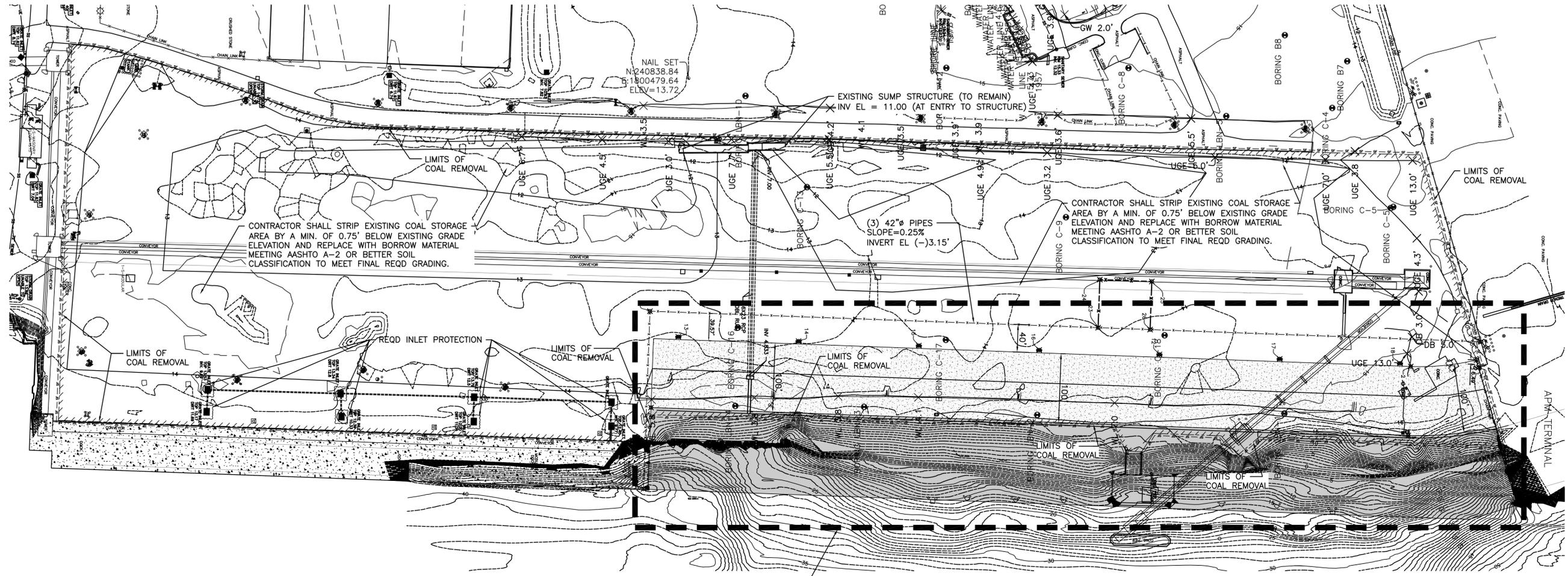
- No.

46. Regarding the bid date, can the bid date be extended to Monday the 13th or Tuesday the 14th?

- No.

47. Please clarify if the contractor is responsible for any obstructions, underground or otherwise if they are shown on the reference drawings but not the construction drawings.

- Yes



CONTRACTOR SHALL STRIP EXISTING COAL STORAGE AREA BY A MIN. OF 0.75' BELOW EXISTING GRADE ELEVATION AND REPLACE WITH BORROW MATERIAL MEETING AASHTO A-2 OR BETTER SOIL CLASSIFICATION TO MEET FINAL REQD GRADING.

CONTRACTOR SHALL STRIP EXISTING COAL STORAGE AREA BY A MIN. OF 0.75' BELOW EXISTING GRADE ELEVATION AND REPLACE WITH BORROW MATERIAL MEETING AASHTO A-2 OR BETTER SOIL CLASSIFICATION TO MEET FINAL REQD GRADING.

(3) 42"Ø PIPES
SLOPE=0.25%
INVERT EL (-)3.15'

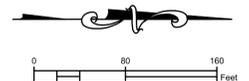
REFER TO SHEETS BG6 AND BG7 FOR GRADING AND DRAINAGE PLANS FOR THIS AREA

EXISTING COAL STORAGE YARD GRADING:

- IT IS ANTICIPATED THAT THE EXISTING COAL STORAGE YARD HAS APPROXIMATELY 0.75' THICK LAYER OF COAL MATERIAL WHICH WILL NEED TO BE REMOVED AND DISPOSED OFFSITE.
- WHERE COAL MATERIAL LAYER EXCAVATION EXTEND BELOW FINISH GRADE ELEVATIONS, THE CONTRACTOR SHALL BACKFILL WITH AASHTO A-2 OR BETTER STRUCTURAL FILL MATERIAL COMPACTED TO A MINIMUM 95% COMPACTION IN ACCORDANCE WITH ASTM D698.
- ALL AREAS WILL RECEIVE A MINIMUM OF 2" OF TOPSOIL PRIOR TO BEING SEEDED AND MULCHED.
- UNTIL THE COAL IS CAPPED BY THE BACKFILL MATERIAL THE CONTRACTOR SHALL CONTAIN ANY STORMWATER RUN OFF THROUGH THE USE OF GRADING, BERMS, PONDS, ETC. ALSO, UNTIL THE EAST SLURRY PIT PUMP STATION IS TAKEN OUT OF SERVICE, McDUFFIE PERSONNEL WILL OPERATE THE PUMPS WITH A PORTABLE GENERATOR AND THE SYSTEM CAN CONTINUE TO BE UTILIZED IF DESIRED BY THE CONTRACTOR.

LEGEND

- PROPOSED DOCK
- PROPOSED CONCRETE PAVEMENT
- LIMITS OF COAL REMOVAL (SEE NOTES)
- 24" RCP → UNDER GROUND STORM PIPE
- - - 23 - - - EXISTING CONTOUR LINE
- 25 — PROPOSED MAJOR CONTOUR LINE
- - - 23 - - - PROPOSED MINOR CONTOUR LINE
- x 8.250 PROPOSED GRADE SPOT ELEVATION
- 1.00% → PROPOSED GRADE SLOPE LABEL
- - - SF - - - SILT FENCING (REQUIRED)



NOTES

NO.	REVISION	DRAWN	CK'D	APPD	DATE
G	ADDENDUM 4 - ADDED NOTE 4 REGARDING STORMWATER RETENTION	ECW	MED	RSQ	3/25/26
F	ADDENDUM 1 - ADDED LIMITS OF COAL REMOVAL & CHANGED EXISTING COAL LAYER REMOVAL THICKNESS TO 0.75'	RST	MED	RSQ	3/4/26
E	ISSUED FOR BID	KR	FEL	FEL	1/14/26
D	100% DESIGN REVIEW	KR	FEL	FEL	9/09/25
C	95% DESIGN REVIEW	KR	FEL	FEL	8/06/25
B	60% DESIGN REVIEW	KR	FEL	FEL	5/30/25
A	30% DESIGN REVIEW	KR	FEL	FEL	4/11/25



CHOCTAW POINT CONTAINER TERMINAL
PHASE V DOCK EXTENSION - BACKLAND TRANSIT
STORAGE YARD GRADING PLAN

THIS DOCUMENT IS THE PROPERTY OF APTIM. IT MAY CONTAIN INFORMATION DESCRIBING TECHNOLOGY OWNED BY APTIM AND DEEMED TO BE COMMERCIALY SENSITIVE. IT IS TO BE USED ONLY IN CONNECTION WITH WORK BEING PERFORMED BY APTIM. REPRODUCTION IN WHOLE OR IN PART FOR ANY PURPOSE OTHER THAN WORK PERFORMED BY APTIM IS FORBIDDEN EXCEPT BY EXPRESS WRITTEN PERMISSION OF APTIM. IT IS TO BE SAFEGUARDED AGAINST BOTH DELIBERATE AND INADVERTENT DISCLOSURE TO ANY THIRD PARTY.

FOR: ALABAMA PORT AUTHORITY