



**St. Johns River Power Park Conveyor
Demolition Project**



JEA

APTIM Environmental & Infrastructure, LLC

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List of Attachments

- Attachment A – SJRPP Conveyor Demolition Drawing Package
- Attachment B – Reference Drawings & Documents
- Attachment C – Contractor Deliverables
- Attachment D – Sample Guidance Lift Plans
- Attachment E – Approximate Weights of Key Conveyor Sections
- Attachment F – Contractor's Permitting Considerations
- Attachment G – Environmental Survey Reports & Wildlife Guidelines
- Attachment H – Owners Spill Reporting Procedures
- Attachment I – St Johns River Channel Bathymetry Survey Information
- Attachment J – Owner Approved Disposal Vendors



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Acronyms and Definitions

ACRONYM	TERM
AAHSP	Asbestos Abatement Health and Safety Plan
ACM	Asbestos Containing Materials
AHERA	Asbestos Hazard Emergency Response Act
ANSI	American National Standards Institute
AOC	Administrative Order on Consent
AST	Aboveground Storage Tank
ASTM	American Society of Testing and Materials
BMPs	Best Management Practices
CAD	Computer-aided Design
C&D	Construction and Demolition
CFC	Chlorofluorocarbon
CFR	Code of Federal Regulations
Contractor	Demolition Contractor
CSXT	CSX Transportation
EPA	Environmental Protection Agency
E-waste	Electronic waste
FRA	Federal Rail Administration
GPS	Global Positioning System
HASP	Health and Safety Plan
HAZWOPER	Hazardous Waste Operations and Emergency Response
HDPE	High-density Polyethylene
HSR	Health and Safety Representative
LOTO	Lock-out/Tag-out
FDEP	Florida Department of Environmental Protection
FDOT	Florida Department of Transportation
JPA	Jacksonville Port Authority
NELAP	National Environmental Laboratory Accreditation Program
NESHAPs	National Emissions Standards for Hazardous Air Pollutants
NIOSH	National Institute of Occupational Health and Safety
NTP	Notice to Proceed
Owner	JEA

ACRONYM	TERM
OSHA	Occupational Safety and Health Administration
PAHs	Polycyclic Aromatic Hydrocarbons
PASIC	Product Approval and Site Inventory Change
PCB	Polychlorinated Biphenyl
PCM	Phase-Contrast Microscopy
PDC	Power Distribution Center
POL	Petroleum, Oils, and Lubricants
PPE	Personal Protective Equipment
PVC	Polyvinyl chloride
QA	Quality Assurance
QC	Quality Control
RCRA	Resource Conservation and Recovery Act
RFI	Request for Information
SA	Source Areas
SAD	Surface Area Disturbance
SDS	Safety Data Sheet
SHSP	Site Health and Safety Plan
Site	SJRPP Conveyor & Coal Terminal
SJRPP	St Johns River Power Park
SOW	Scope of Work
SVOCs	Semi-volatile Hydrocarbons
SWPPP	Stormwater Pollution Prevention Plan
TPH	Total Petroleum Hydrocarbons
TSCA	Toxic Substances Control Act
TWA	Time-weighted Average
US	United States
USACE	United States Army Corps of Engineers
USCG	United States Coast Guard
UST	Underground Storage Tank
USMC BIC	U.S. Marine Corps Blount Island Command
U-waste	Universal waste
VOCs	Volatile Organic Compounds



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1.0 SITE OVERVIEW

The St. Johns River Power Park (SJRPP) was a large coal-fired electric generating plant that was decommissioned and demolished beginning in 2018 to be completed in 2020. The SJRPP site is located on a 1,600-acre site in northeast Jacksonville, Florida and is jointly owned by JEA - 80% and Florida Power and Light (FPL) - 20%. The plant site proper, located at 11201 New Berlin Road, excluding landfills and wetland areas is approximately 325 acres in size.

Marine coal shipments to the plant were received at JEA/FPL's coal terminal located on the south end of Blount Island and then carried via its associated 2.5-mile long coal conveyor from the terminal to the plant site. The coal terminal and associated conveyor were not included in the SJRPP demolition project.

This specification provides the information required for the coal terminal and conveyor equipment and structures removal and demolition.

1.1 Coal Terminal and Conveyor Land Ownership

The 25-acre coal terminal on Blount island is located on land jointly owned by JEA/FPL. Access to the coal terminal and conveyor sections on Blount island is through the Jacksonville Port Authority (JPA) security cordon. The conveyor exiting the coal terminal is located on land owned by the JPA but granted to JEA/FPL through an easement agreement.

The conveyor easement extends from the north boundary of the coal terminal to the south end of the plant site, with the exception of the Florida Department of Transportation State Road 105 (Heckscher Drive) Right-Of-Way.



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2.0 SCOPE OF WORK

The contract for oversight, removal, demolition, and payment for this scope of work will be administered by JEA. For ease of reference in this document, only JEA will be used when referring to property or equipment jointly owned by JEA and FPL. This Demolition Specification details the site-specific project coordination and requirements for demolition, waste management, disposal, recycling, and site restoration necessary to complete the Work. The Contractor is responsible for accomplishing the work in accordance with all applicable regulations, ordinances, and permits.

The Scope of Work provided for the demolition of aboveground and belowground infrastructure associated with the Site is described in further detail in the project drawings (**Attachment A**) and supporting documents. Reference Drawings and Documents are provided in **Attachment B**.

2.1 Demolition, Remediation & Outside Coordination

The work Includes:

- Asbestos abatement and removal.
- Removal of conveyor belts.
- Removal of aboveground structures, electrical transformers and switchgear, above grade support structures and systems, concrete slabs, aboveground storage tanks and piping, environmentally regulated materials and related site features.
- Removal of belowground structures, including foundations, concrete slabs, underground piping, duct banks, conduits, and underground pits.
- Wetland disturbances
- Salvaging, recycling, or disposing of all demolition materials and wastes.
- Obtaining and adhering to all permitting requirements applicable to the scope of work.
- Protection of facilities identified by the Owner to remain, including buildings, electrical equipment, roads, storm water controls, water production wells, and groundwater monitoring wells.
- Site restoration, grading, and stabilization.
- Coordination with but not limited to the following Agencies or Organizations
 - Jacksonville Port Authority (JPA)
 - Florida Department of Transportation (FDOT)
 - United States Army Corps of Engineers (USACE)
 - United States Marine Corp – Blount Island Command (USMC-BIC)
 - United States Coast Guard (USCG)
 - CSX Transportation (CSXT)

2.2 Material Salvage

Owner will turn over all responsibility of material salvage and equipment resale or reuse to Contractor upon acceptance of the project schedule and acceptance of respective demolition and work plans.



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3.0 GENERAL ADMINISTRATION

3.1 Project Specific Safety Requirements

Contractor is responsible for complying with all Occupational Safety and Health Administration (OSHA) regulations, Owner and site-specific safety policies, and maintaining a safe working environment for all employees including sub-contractors. Contractor will develop and submit to Owner for approval a Contractor Safety Program which will include designation of a full-time onsite health and safety representative and a written site-specific safety program.

3.1.1 Contractor Safety Program

Contractor shall develop a project specific safety program that complies with OSHA regulations and, as applicable, Owner safety policies. Contractor shall be responsible for the safety and health of its staff and that of its Subcontractors. Contractor will notify Owner in writing and consult before any changes to the safety program are allowed. Contractor shall be JEA safety approved in order to work on this project. A separate site safety training orientation shall be held by the Contractor at the site for personnel and subcontractors prior to commencement of work activities. New personnel and subcontractors shall receive the orientation training prior to working on the project.

The project specific safety program shall include the following requirements, at a minimum:

- Designation of a Health & Safety Representative,
- Written safety procedures,
- PPE requirements,
- Site safety orientation program for all contractor personnel and subcontractors,
- Respiratory protection program, including medical surveillance and fit-testing documentation
- First aid station materials and inventories,
- Arrangements for emergency medical treatment,
- Housekeeping procedures,
- Provisions for a rescue team available for permit required confined space entry and other high-risk activities,
- Accident and near miss reporting,
- Site security,
- Fire prevention and protection, and
- Safety inspections.

3.1.2 Contractor Health and Safety Representative

Contractor shall designate a qualified full-time onsite health and safety representative (HSR) who shall be responsible for the compliance of the Contractor's Site Health and Safety Plan (SHSP). Contractor shall provide documentation of HSR's previous experience on projects with marine on-water work, watercraft, employment of barges and cranes, heavy lift plans, rigging, earthwork and excavation, and demolition. The HSR shall not have any other responsibilities at the site and be dedicated to the management of safety for the Contractor, including, but not limited to the following activities:

- a. Monitor workers' breathing zone and background areas for combustible gases, hazardous gases, dusts, lead and asbestos
- b. Oversee all operations at the Site



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- c. Oversee marine safety during all on-water and near water activities,
- d. Coordinate directly with rail flagmen to ensure compliance of all crews during activities in proximity to the rail line
- e. Review crane lift plans submitted by vendors and subcontractors
- f. Ensure compliance of lift plan requirements
- g. Inspect equipment, including lifting gear for wear, tear and certification
- h. Maintain proper medical surveillance
- i. Provide hazard communications to personnel at the Site.
- j. Train personnel in safe operating procedures

The Contractor's designated safety representative will coordinate with the Owner's Safety Representative for required project safety-related reporting.

As part of their safety program, Contractor will be expected to conduct the following:

- Daily tailgate meeting to discuss safety concerns, review incidents from previous shift, scheduling critical activities to reduce personnel exposure to hazards (i.e., mobile crane use, welding on stainless steel, etc.),
- Weekly written submittal of safety updates covering incidents and near misses,
- Monthly written submittal of safety report covering incidents, near misses and evidence of inspections,
- Coordination of rescue team services for OSHA permit-required confined spaces or other designated hazardous job tasks.

The Contractor's safety program must identify and specify employee training necessary to meet the requirements of Owners' Health and Safety Program and/or necessary to comply with regulatory requirements as applicable to the assigned worker duties and activities, including General Industry Standards (OSHA 1910), Construction Industry Standards (OSHA 1929), and HAZWOPER [OSHA 29 CFR1910.120(e)]. The Contractor's safety program must specify that all Contractor employees, and those of its subcontractors, who might potentially be exposed to hazardous materials during, or as a result of, performance of their assigned duties must be HAZWOPER 40-hour trained, along with current annual refresher. HAZWOPER employees must participate in a medical surveillance program and provide fitness for work documentation. Operators of forklifts, man lifts and cranes must have the appropriate and current certifications to operate the equipment. The Contractor must maintain accurate Safety Performance and Training Records. These records will be made available to Owner for review. Owner's personnel will be invited to audit and comment on Contractor performance.

3.2 Owner Administration and Coordination Responsibilities

3.2.1 Owner Administration and Coordination Responsibilities

Activities to be performed by Owner include the following:

- Owner will de-energize circuits powering the conveyor machinery and coal shipping terminal prior to the Contractor release to work. High voltage aboveground and underground energized power lines in close proximity to these structures are still present.
- Owner has removed the bulk of the coal fines from the conveyor and tower structures as is practical. It is expected some fines and dust remain. Contractor is responsible for control and collection of any remaining coal fines and dust during demolition.

3.2.2 Contractor Administration and Coordination Responsibilities

The Contractor shall develop approaches, procedures, and plans to implement the specification and plans identified, described, and referenced in this Demolition Specification and those of the Required Contractor Deliverables (**Attachment C**). Demolition will be performed within the demolition boundary shown on the



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drawings and will result in the complete removal of the above grade structures and systems, concrete slabs, asphalt surfaces, aboveground containments and piping, environmentally regulated materials and related site features, and underground septic tanks and systems. Above grade structures and systems that will remain after demolition of the coal terminal and conveyor are identified in the Demolition Specification and on Drawings in **Attachment A**.

Contractor must provide a site security plan pertaining to all site areas within the demolition boundary. The site security plan must provide for appropriately and effectively securing the demolition boundary prior to Contractor conducting any demolition activities and recognizing that the Contractor is responsible for material and equipment "lost" after the area is relinquished by Owner to the Contractor. Owner will allow the Contractor to retain the value of demolition assets, including asset value of equipment, systems, flat stock, as well as of recyclable metals and scrap metals. Except as otherwise specified, anything remaining onsite after Owner relinquishes site control to the Contractor will become the responsibility of the Contractor (and incorporated into the bid price).

The Contractor must comply with applicable Owner project controls requirements and procedures, including those for work schedules (overall and look-ahead) and reporting (resource-loaded, cost-loaded, schedule), monthly cash flow, invoicing requirements, request for information (RFI) and submittal program, work change control program, progress reporting, and close-out requirements.

3.3 Contractors Quality Assurance and Quality Control Program

3.3.1 Contractor & Quality Control Requirements

Contractor must establish and execute a Quality Control (QC) Program to ensure quality of the work performed. The program must provide the Contractor with adequate measures to verify and ensure conformance to defined requirements by all project personnel, including those of subcontractors. Contractor must submit a site-specific QC Plan for Owner's acceptance. The purpose of the QC Plan is to provide guidance and measures to be employed to ensure that the project is completed in a safe manner that is consistent with project goals. The QC Plan is intended to identify Site controls/authority, general procedures such as document/data control, and activity-specific controls and verification procedures including inspections and testing and documentation of corrective action for non-conforming work.

The major elements of the Contractor's QC Program and QC Plan will include the following:

- Procedures to control activities affecting quality, including interfaces with other project participants
- Inspection planning to identify applicable attributes, material tests, and acceptance criteria
- Review of contract documents to ensure conformance with specifications, drawings, codes, and regulations, etc.
- Review (and approval if specified) of contractor programs and procedures
- Document control systems to ensure that the latest applicable design and working documents, including changes, are available and used
- Daily and continuous inspections of work in process to ensure compliance with specified requirements and workmanship
- Monitoring of on-site materials, including the inspection and testing of materials to ensure compliance with specification requirements, referenced codes and standards
- A corrective action and quality accountability system which includes periodic contractor meetings to resolve problems affecting quality
- Final inspections
- Development of as-built drawings



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All Contractor work is subject to Owner's QA review, inspection, and testing before Owner's acceptance of the work to ensure strict compliance with the terms of the Contract.

3.4 Project Meetings and Reports

3.4.1 Pre-Demolition Project Kick-off Meeting

A pre-demolition, project kick-off meeting will be performed prior to mobilization to establish a work understanding between the parties as to their relationships during performance of the Work. Pre-demolition meeting shall be attended by no less than:

- Owners representative(s)
- Contractor's office representative(s)
- Contractor onsite project manager, superintendents, QC representative(s), and safety representative(s)
- Subcontractor representatives whom Contractor may desire, or Owner may request to attend
- Others as appropriate

Primary objectives of this meeting will be to communicate all project objectives to the project team, define project safety as the primary project objective, complete a detailed review of the project plans, scope of work, technical specifications and project schedule, introduce the primary project staff, and establish the reporting requirements for the project.

3.4.2 Demolition Progress Meeting

Contractor shall schedule and conduct a progress meeting at least weekly and at other times requested by Owner from Mobilization through Final Completion. Progress meeting shall be held at the Contractor's on-site office/trailer unless otherwise directed by the Owner. Representatives of the Owner and Contractor shall be present at each meeting. At a minimum, Contractor's project manager and superintendent shall attend all progress meetings. Contractor may also have representatives of Subcontractors, Suppliers, or other entities concerned with current project or involved with planning, coordination, or performance of future activities. All participants in the meeting shall be familiar with the Project and authorized to conclude matters relating to the Work.

3.4.3 Weekly Status Report

Contractor shall provide a weekly status report prior to or at the progress meeting which highlights, at a minimum the following,

- Personnel on Site
- 10-day local weather forecast beginning with the progress meeting date
- List of On-Site Equipment and its operational status
- Waste Shipments summarized by date, material, volume/weight, and receiving facility
- Recycled Materials Shipments summarized by date, material, volume/weight, and receiving facility
- Description of work activities
- Detailed rolling schedule to include:
 - Previous week's activities
 - Current week's activities
 - Ensuing 2-week activities look ahead schedule
- Safety incident reporting



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3.4.4 Contractor Monthly Progress Report

Contractor shall prepare a Monthly Progress Report beginning with Notice-to-Proceed and continuing through Final Completion. The Monthly Progress Report shall include an updated Project Schedule, Detailed Rolling Schedule, list of action items, list of change order requests, list of requests for information (RFIs), list of submittals, photos (e.g., to document progress, issues, or corrective actions), as well as the following items:

- Number of days worked over the period, work force on hand, construction equipment on hand (including utility vehicles);
- General progress of Work, including a listing of activities started and completed over the reporting period, mobilization/demobilization of subcontractors, and major milestones completed;
- Contractor's plan for management of Site (e.g., lay down and staging areas, construction traffic), utilization of construction equipment, build-up of trade labor, and identification of potential Contract changes;
- Identification of new activities and sequences as a result of executed Contract changes;
- Documentation of weather conditions during the reporting period, and any resulting impacts to the work or schedule;
- Description of actual or potential delays, including related causes, and the steps taken or anticipated to mitigate their impact;
- Changes to project schedule activity logic;
- Changes to the project schedule critical path;
- Identification of, and accompanying reason for, any activities added or deleted since the last report;
- Steps taken to recover the schedule from Contractor-caused delays.

3.4.5 Project Schedule

Contractor shall provide a baseline Detailed Level 3 Project Schedule prepared as a comprehensive bar chart, as well as monthly updates to the detailed Project Schedule that reflects actual progress and occurrences to date. Monthly project schedule updates shall be submitted no later than the first weekly progress meeting of each month.

The Project Schedule shall show the duration, sequences, predecessors, successors, and activity logic required for the complete performance of the Work reflecting means and methods chosen by the Contractor. The Project Schedule submittal shall be prepared in electronic format (native and .pdf), compatible with the latest version of Primavera P6 project management software by Oracle Corporation, Microsoft Project, or other software acceptable to the Owner.

Mobilization to begin the work will not be authorized without the Owner's Engineer final acceptance of the baseline schedule, including incorporation of all comments.

3.4.6 Detailed Rolling Schedule

On a weekly basis, the Contractor shall submit an updated Detailed Rolling Schedule that shows the previous week's activities, planned activities for the current week, and planned activities for the ensuing two weeks. This schedule shall show each activity being performed or planned in detail sufficient so that the Owner is informed of all activities planned in connection with the Work. The intent of this tool is to provide more detail than what is normally provided in the Project Schedule; however, the Detailed Rolling Schedule shall be consistent with and reflect the progress and planned activities in the Project Schedule.



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3.4.7 Submittals Registry

Contractor must provide to Owner a register of all required submittals in an electronic spreadsheet format: submittal transmittal number, item number, description of item submitted, scheduled date of submittal, date actually submitted, date returned, and acceptance status. The Submittal Registry must be updated monthly, or as required by Owner.

3.4.8 Payment Procedures

The Contractor shall prepare a separate schedule of values for work under the Contract in a table format acceptable by the Owner. Unit price work shall reflect the unit price quantity and price breakdown from the Contract. Lump Sum work should be further broken down into distinct parts as approved by the Owner so as to facilitate ready assessment of the value of the work completed at any point in time. An unbalanced or front-end loaded schedule will not be acceptable. The Top-level line items in the schedule of values shall align with the line items in the Contracts. The Summation of the complete schedule of values representing all Work shall equal the Contract price.

The Contractor shall review any application for payment with the Owner prior to submitting an invoice to verify the basis for measurement and supporting documentation supporting a progress payment. Invoicing shall be completed in accordance with the Contract.

The Owner will require the Contractor to submit a separate invoice for asbestos abatement related line items in the Contract to distinctly document this environmental asset retirement obligation separate from the balance of the demolition work.

3.5 Substantial Completion

3.5.1 Preliminary Procedures

Before requesting inspection for certification of Substantial Completion, complete the following and list exceptions in the request: In the Application for Payment that coincides with, or first follows, the date Substantial Completion is claimed, show 100% completion for the Work.

- Include supporting documentation for completion as indicated in the Contract Documents.
- If 100% completion cannot be shown, include a list of incomplete items, the value of incomplete Work, and reasons the Work is not complete (the punch list items).
- Discontinue and remove temporary facilities from the Site, along with construction tools and similar elements.
- Complete final cleanup requirements.

3.5.2 Inspection Procedures

Inspection procedure on receipt of a request for inspection, Owner will either proceed with inspection or advise Contractor of unfulfilled requirements. Owner will advise the Contractor of any Work that must be completed before Final Acceptance.

- Owner will repeat inspection when requested and assured by Contractor that the Work is Substantially Complete.
- Results of the completed inspection will form the basis of requirements for final acceptance.

3.5.3 Final Acceptance

3.5.3.1 Preliminary Procedures

Before requesting final inspection for certification of final acceptance and final payment, complete the following.

- List all exceptions in the request.



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- Submit the final payment request with releases and supporting documentation not previously submitted and accepted.
- Submit a copy of Owner's final inspection list of items to be completed or corrected, endorsed and dated by Owner. The copy of the list shall state that each item has been completed or otherwise resolved for acceptance and shall be endorsed and dated by Owner.
- Submit consent of surety to final payment.
- Submit evidence of final, continuing insurance coverage complying with insurance requirements described in the Contract Documents.

3.5.3.2 Re-inspection Procedure

Owner will re-inspect the Work upon receipt of notice that the Work, including punch list items from earlier inspections, has been completed, except for items whose completion is delayed under circumstances acceptable to Owner.

- Owner will advise Contractor of Work that is incomplete or of obligations that have not been fulfilled but are required for final acceptance.
- If necessary, re-inspection will be repeated.

3.5.4 Record Document Submittals

3.5.4.1 General

Do not use record documents for construction purposes. Protect record documents from deterioration and loss in a secure, fire-resistant location. Provide access to record documents for Owner's reference during normal working hours.

3.5.4.2 Record Drawings

Maintain a clean, undamaged set of blue or black line white-prints of Contract Drawings. Mark the set to show the actual installation. Mark which drawing is most capable of showing conditions fully and accurately. Give particular attention to concealed elements that would be difficult to measure and record at a later date.

- Record information concurrently with construction progress.
- Mark record sets with red erasable pencil. Use other colors to distinguish between variations in separate categories of the Work. Mark each document "PROJECT RECORD" in neat, large, printed letters.
- Mark new information that is important to Owner but was not shown on Contract Drawings.
- Note related Change Order numbers where applicable.
- Organize record drawing sheets into manageable sets. Bind sets with durable paper cover sheets; print suitable titles, dates, and other identification on the cover of each set.
- Upon completion of the Work, submit hard-copy record drawings to Owner. Also, supply an electronic copy in PDF and native formats.
- Include the following:
 - Horizontal and vertical locations of underground utilities and appurtenances, referenced to permanent surface improvements.
 - Location of internal utilities and appurtenances concealed in the construction, referenced to visible and accessible features of construction.



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- Where Submittals are used for mark-up, record a cross-reference at corresponding location on Drawings.
- Field changes of dimension and detail.
- Changes made by Change Order or other modifications.
- Details not on original Contract Drawings.

3.5.4.3 Miscellaneous Record Submittals

Refer to other Specification Sections for requirements of miscellaneous record keeping and Submittals in connection with actual performance of the Work. Immediately prior to the date or dates of Substantial Completion, complete miscellaneous records, and place in good order. Identify miscellaneous records properly and bind or file, ready for continued use and reference. Submit for Company's records.



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4.0 PROTECTION OF EXISTING FACILITIES

4.1 Existing Facilities

Contractor shall protect all existing utilities and improvements not designated for removal or alteration and shall restore damaged or temporarily relocated utilities and improvements to a condition equal to, or better than prior to, such damage or temporary relocation, all in accordance with the Contract Documents.

- Live utilities, duct banks and manholes
- Fire hydrants, as designated
- Perimeter security fence and associated gates
- Bollards where indicated (for monitoring wells), plus jersey barriers
- Transmission line towers and foundations
- Monitoring wells
- Remaining structures as described below

As shown on the Demolition Plans in **Attachment A**, structures remaining at the conclusion of demolition include:

- Water Production Wells
- Rail lines
- Roadways
- Groundwater Monitoring Wells
- Storm Water Swales
- Site Fencing
- Terminal Pier & Vehicle Access Bridges
- Selected Foundations as Described in Each Zone

4.2 Groundwater Monitoring Wells

The Contractor shall exercise all necessary precautions so as not to damage or destroy existing groundwater monitoring wells. The Contractor shall immediately notify the Owner of damage to any monitoring well resulting from the Contractor's operations. The Contractor shall be responsible for repair and/or replacement of any damaged wells at no additional cost to the Owner. Well repairs must be completed by a State of Florida licensed well driller.

4.3 Rail

Throughout the former Power Park site are rail lines which shall be protected when traversing with large tracked or wheeled equipment. Within the conveyor easement are active rail lines, which shall be protected in accordance with CSXT and JPA requirements. Within the conveyor easement, Contractor shall not cross rail lines with tracked equipment. Contractor shall be responsible for any repairs and consequential damages required to the rails if damaged.

4.4 Roadways & Paved Surfaces

4.4.1 Paved Surfaces

All paved and hard surface areas including concrete revetments, concrete berms cut or damaged during demolition or by truck or equipment traffic, shall be replaced with similar materials of equal thickness to match the existing adjacent undisturbed areas. The pavement restoration requirement shall apply to all components of existing sections, including subbase, base and pavement. Pavements which are subject to partial removal shall be neatly saw-cut in straight lines. All restoration of public roads must be coordinated with responsible agency. Pavement which may require resurfacing are shown in **Attachment A**.

4.4.2 Gravel and Haul Roads

All existing graveled or dirt road surfaces damaged during demolition shall be repaired to a quality commensurate with conditions prior to initiation of the Work and existing adjacent undisturbed areas. The



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restoration requirement shall apply to all components of existing sections including sub-base, base, and surface materials. Haul paths for materials being transported shall be maintained throughout the project. This includes ensuring roads are free and clear of any dirt or debris as trucks travel on public roads.

The dirt path to access Tower 2 from Channel View Blvd shall be graded and maintained with FDOT #57 stone as shown in the demolition plans.



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5.0 REGULATORY AND SAFETY REQUIREMENTS

5.1 Contractor Safety Plan

Contractor shall prepare and submit a project specific safety plan that complies with OSHA regulations and Owners safety policies. Contractor shall be responsible for the safety and health of its staff and that of its Subcontractors. Contractor will notify Owner in writing and consulted before any changes to safety program are allowed. Contractor will be required to attend a safety training orientation at the site prior to commencement of work activities. The project specific safety program shall include the following requirements, at a minimum:

- a. Description of the work
- b. Identification of potential hazards
- c. Procedures and processes to eliminate hazards and provide for worker protection
- d. PPE requirements, air monitoring, and action levels
- e. Designated first aid stations,
- f. Designated routes and contacts for emergency medical treatment,
- g. Housekeeping procedures,
- h. JSA and AHA preparation, formats, and documentation
- i. Accident and near miss reporting,
- j. Fire protection, and
- k. Safety inspections.

5.2 Security and Control

The Contractor shall assume care and custody during the project in all work areas sufficient to control the area. The Owner will maintain general site security only at the Power Park site. Areas under JPA control on Blount Island have limited access. The JEA and JPA security measures should not be relied upon by the Contractor for security of equipment, materials, vehicles, or trailers.

5.3 Protection of Personnel

During demolition, continuously evaluate the condition of the structure being demolished and the surrounding area. Take immediate action to protect all personnel working in and around the demolition work areas. Provide temporary barriers and other forms of protection to protect Owner' personnel, other contractors, and the general public from injury due to demolition work, open excavations, and debris. Provide protective measures as required to maintain free and safe passage of Owner's and JPA personnel and other contractors to non-demolition portions of the work areas.

5.4 Other Safety Concerns

Contractor must obtain approval from Owner prior to bringing any chemicals onto the project site. The request and approval process shall be initiated from the Contractor through the Owner's Engineer. Contractor is responsible for providing Safety Data Sheets (SDS) for all substances that contractor brings onto the project site.



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6.0 FIELD OFFICES, TEMPORARY UTILITIES AND MATERIAL STORAGE

6.1 Field Office Trailers

Contractor shall furnish owner a separate field office trailer to support the work. Owner's and Contractor's trailers may be located on the Power Park site in the parking area near Gate 5 or on the north end of Blount Island to the east of Blount Island Boulevard.

6.2 Trailer Provided for Owner by Contractor

- a. Trailer shall be a 500-square-foot minimum:
 - a. Trailer shall have no less than two (2) offices
 - b. Remaining space for desk and common area/conference room
- b. Secure entrance doors - two set of keys.
- c. Windows with operable sash and insect screens.
- d. Lockable storage closet.
- e. Resilient floor covering.
- f. Conference Room:
 - a. One conference table of sufficient size to conduct a meeting with up to 12 people sitting at the table and others sitting in the conference room.
 - b. One Projector
 - c. One Projector Screen
 - d. One 4'x 8' dry erase board
- g. Furnishings:
 - i. One standard size desk with three drawers and swivel desk chair with arms for no less than 3 employees
 - ii. One (1) plan rack to hold a minimum of eight (8) sticks of Drawings
 - iii. One (1) standard four-drawer legal-size metal filing cabinet with lock and key
 - iv. Six linear feet of bookshelves, 10-inch (250-mm) minimum depth
 - v. 8 straight chairs (folding chairs acceptable)
 - vi. One waste basket per desk and table
 - vii. One tack board, 36" x 30" (900 mm x 750 mm)
- h. Services:
 - i. Lighting: 50 foot-candles 538 lux) at desktop height. Exterior lighting at entrance door
 - ii. Heating and air conditioning
 - iii. Electrical Service: Provide power to the trailer with minimum of one (1) outlet per cubical or office circuits, 110V, 60 Hz (Minimum of four 110V duplex convenience outlets)
 - iv. Communications: Provide data services via Cradlepoint E300 router with WiFi (150 Mbps modem), North America. Antenna Set and Power Supply, or equal
 - v. Toilet facilities (can be remote from the trailer)
 - vi. Electric water cooler. This includes providing water replacement throughout the duration of the project as necessary

6.3 Temporary Storage Area

The Contractor shall construct and use a separate storage area for Hazardous Materials used in completing the Work and separate from any hazardous waste collected throughout the facility. At completion of Contract, the Contractor shall return this area to its original condition, including grading and landscaping. The Contractor shall make its own arrangements and pay for any necessary off-site storage or shop areas necessary for the proper execution of the Work.

1. Hazardous materials used by the Contractor shall be stored in an Owner approved secure location for products that include any of the following terms of the label: Warning, Caution, Poisonous, Toxic, Flammable, Corrosive, Reactive, or Explosive.



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2. In addition, whether or not so labeled, the following materials shall be stored at an Owner approved secure location: new and used motor oil, hydraulic fluid, cement, paints and paint thinners, two-part epoxy coatings, sealants, asphaltic products, glues, solvents, wood preservatives, sand blast materials, and spill absorbent.
3. Hazardous Materials shall be stored in groupings according to the Safety Data Sheets (SDS).
4. The Contractor shall develop and submit to the Owner a plan for storing and disposing of the materials above.
5. The separate storage area shall meet the requirements of authorities having jurisdiction over the storage of Hazardous Materials.
6. Hazardous Materials that are delivered in containers shall be stored in the original containers until use. Hazardous Materials delivered in bulk shall be stored in containers which meet the requirements of authorities having jurisdiction.

6.4 Temporary Utilities

6.4.1 Telecommunications

Contractor shall be responsible for providing sufficient phone and internet service for their use.

6.4.2 Water

A potable water main is not available on the Power Park site. A potable water main is present on Blount Island. Contractor is responsible for all potable water main coordination, connection, use and payment of associated fees.

Raw water for dust control is available via fire hydrant connections on Blount Island. Contractor has the option to acquire a meter from JEA water department and utilize fire hydrants on Blount Island at the cost to Contractor.

6.4.3 Electrical Service

Electrical service (480V) is available on the Power Park site. Locations are near Gate 5 and at EER 4. Contractor shall be responsible for coordination with JEA to setup electric service, metering, sizing, cabling, routing, connections, and all associated costs.

Overhead power is available via a pole-mounted transformer on the north end of Blount Island between Blount Island Blvd. and Channel View Drive. Contractor shall be responsible for coordination with JEA to setup electric service, determine transformer requirements, metering, connections, cabling, routing, and all associated costs.

6.4.4 Sewer

Sewer service is not available on the Power Park site. Sewer service is available on Blount Island, but the routing of the sewer main or force main and connections will require Contractor coordination, permitting with JEA Utilities, and associated fee payments.

Contractor shall provide port-o-let and hand wash facilities in all active project areas.

6.4.5 General Refuse

Contractor shall provide a dumpster near the office trailers for disposal of all general refuse, including Owner's use, not related to abatement and demolition activities and proper disposal.



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7.0 SITE ACCESS AND TRAFFIC CONTROLS

Contractor shall submit a traffic control plan which details routes of heavy haul trucks, shipment of asbestos, routes of imported fill supply trucks and any other large vehicles.

7.1 Highway and Other Road Access to Site

The Contractor shall make its own investigation of the condition of available public and private roads and of clearances, restrictions, bridge load limits, and other limitations affecting transportation and ingress and egress to the Site of the Work.

Daily construction traffic at the SJRPP site shall use the Gate 5 entrance located on William Ostner Road.

Contractor shall submit a traffic flow plan which details routes to be utilized for personnel traffic, waste disposal, heavy haul and other vehicular traffic as needed to complete the work. The traffic flow plan shall be revised and updated as directed by the Owner.

The Contractor shall construct, improve, and maintain any haul roads required for its demolition operations. Restore improved areas to their pre-demolition conditions.

7.2 Traffic Control

For the protection of traffic in public or private roads and ways, the Contractor shall provide, place, and maintain necessary barricades, traffic cones, warning signs, lights, and other safety devices in accordance with the requirements of the Manual of Uniform Traffic Control Devices, Part VI - Traffic Controls for Street and Highway Construction and Maintenance Operations," published by U.S. Department of Transportation, Federal Highway Administration and the Florida Department of Transportation (FDOT) Design Standards Index 600 Series (current edition).

1. The Contractor shall take necessary precautions for the protection of the Work and the safety of the public. Barricades and obstructions shall be illuminated at night, and lights shall be kept burning from sunset until sunrise. The Contractor shall station such guards or flaggers and shall conform to such special safety regulations relating to traffic control as may be required by the public authorities within their respective jurisdictions. Signs, signals, and barricades shall conform to the requirements of Subpart G, Part 1926, of the OSHA Safety and Health Standards for Construction.
2. Contractor shall obtain a General Use Permit from FDOT via the One Stop Permitting Website (<https://osp.fdot.gov/>) for approval of Traffic Control Plans and right of way access for implementation within the FDOT Rights-of-Way. Additional requirements for the General Use Permit submittal are available via the One Stop Permitting Website.
3. Contractor shall obtain approval of Traffic Control Plans for implementation on JPA Controlled Rights-of-Way from the Jacksonville Port Authority.
4. Contractor shall obtain approval of Traffic Control Plans for implementation on Blount Island roadways that affect U.S. Marine Corps (USMC) Blount Island Command (BIC) access from the USMC BIC Facility Manager.
5. The Contractor shall submit copies of traffic control plans to the Owner's Engineer for review and the right-of-way authority for approval, which are required for execution of Contract.
6. The Contractor shall remove traffic control devices when no longer needed, repair damage caused by installation of the devices.

7.3 Maintenance of Traffic Certification

1. Traffic Control Plans shall be prepared and sealed by a Florida registered professional engineer, with FDOT Advanced Maintenance of Traffic certification.
2. Traffic control plan implementation shall be directed by a certified FDOT Work Zone Traffic Control Supervisor.



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3. Flaggers shall be qualified in accordance with FDOT Basic Maintenance of Traffic certification.
4. Contractor shall submit copies of all Maintenance of Traffic personnel certifications to the Engineer prior to implementation of any plans.

7.4 Road Use

Nothing herein shall be construed to entitle the Contractor to the exclusive use of any public road or parking area during the performance of the Work hereunder, and it shall conduct its operations to not interfere unnecessarily with the authorized work of utility companies or other agencies in such streets, alleyways, or parking areas. No road shall be closed to the public without first obtaining permission of the Owner and proper governmental authority. Contractor is responsible for operating vehicles on public and private right-of-ways within the laws, rules, and regulations of the right-of-way owner, including but not limited to weight limits, traffic volumes, and operating hours. Contractor shall conduct pre- and post-project road surveys as necessary to demonstrate compliance with the right-of-way owner laws, rules, and regulations.

7.5 Parking

Contractor shall maintain parking areas which will include surface repairs and maintaining cleanliness and trash maintenance.

7.6 Access Roads

Contractor shall properly maintain all temporary site access roads required to perform and access the Work. Contractor will submit a request to create a temporary access road or entry into work area which does not currently exist prior to construction. Contractor will remove all temporary access roads and reclaim affected areas following completion of the Work unless otherwise directed by Owner.

7.7 Blount Island – Jacksonville Port Authority (JPA)

All contractor personnel accessing Blount Island through secure areas shall have a Transportation Worker Identification Credential (TWIC) card and JPA access badge. Personnel must pass a background check and possess primary identification documents (passport, birth certificate, or other document as required). The time required for application approval and badging can vary significantly depending on demand.

7.7.1 Transportation Worker Identification Credentials (TWIC)

TWIC card application requirements and fees can be found at: <https://www.tsa.gov/for-industry/twic>.

7.7.2 JAXPORT Worker

Jaxport badge application requirements can be found at: <http://www.jaxport.com/security/business-purpose-credential> and <http://www.jaxport.com/security/twic>.

7.8 Railroad Access

The existing conveyor system south of the SJRPP property is in close proximity to the rail line servicing Blount Island. The rail line and property are owned by JPA. CSXT trains operate on the rail line. Work within proximity of the rail line to remove the conveyor system and associated foundations, structures, and appurtenances will require approval of the Owner's Engineer, JEA, JPA and CSXT in accordance with the requirements contained in the CSX Public Project Information Manual. The Contractor shall develop and submit for approval final lift and removal plans in accordance with the CSX Public Project Information Manual to remove the conveyor system and subcomponents in a manner that positively prevents any debris or material from falling, impacting, or otherwise affecting employees, equipment or property. Some general guidance lift plans are provided in **Attachment D** for the Contractor's information in project planning and final lift plan preparation. These guidance plans are provided as information only and do not contain the level of detail that will be required for final lift plan submittal. Nothing in these guidance plans shall be construed by the Contractor as direction on methodologies, means, or methods in the execution of this project. The Contractor shall make provisions to ensure there is no impairment of railroad operations or JPA's ability to access its property at all times.



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7.8.1 Rail Usage Demolition Prohibition

Contractor shall not use the JPA rail for demolition, removal, loading, or transport of any conveyor section or segments on this project.

7.8.2 Insurance.

The Contractor shall obtain, keep in force, and pay all costs associated with the required insurance as directed by JPA and CSXT for the duration of the project. Insurance includes but is not limited to general liability, worker's compensation, employers liability, automobile liability, and railroad protective liability.

7.8.3 Engineering Review and Construction Monitoring

Owner will pay for CSXT engineering review costs. The Contractor shall comply with CSXT engineering review and monitoring requirements.

7.8.4 Railroad Flagging

The Contractor shall comply with and pay for all railroad flagging services.

7.8.5 Lift and Removal Plans

Lift and removal plans, supporting calculations, and detailed means and methods for the conveyor system removal shall be signed/sealed by a Florida registered professional engineer and submitted to the Owner's Engineer for review prior to submittal to JPA and CSXT. Contractor shall revise and incorporate changes to the plans as required by JPA and CSXT. The approximate weights of key conveyor sections are provided in **Attachment E**. The Contractor shall review and confirm the weights of the sections independently for the final lift plan preparation and submittal.

7.8.6 Roadway Worker Certification

The Federal Railroad Administration (FRA) regulation 49 CFR Part 214, Subpart C and CSXT's Policy requires that all contractor and subcontractor personnel who will be on or near track, within 25' from the outside of the rail or with the potential for fouling track shall be trained as a Roadway Worker. Contractor and subcontractor employees shall have documentation of their training and qualifications while on the work site.

7.8.7 Work in Proximity to the Rail

All work in the FRA Red Zone (within 4 feet from outside of the rail on each side of the track) shall be done only with a CSXT, FRA qualified flagman as specified by CSXT. All work beyond 4 feet from the outside rails and within 25 feet shall be done under the supervision of a qualified CSXT flagman.

Certain types of work done beyond 25 feet from the outside of the rails, and with equipment that will not reach beyond this point, may be done without flagging protection or a watchman. This must be approved by JPA and/or the local CSXT Engineering representative, the area must be protected by a construction fence, and the work must be stationary.

All work must be stopped while trains are passing within the work zone. All workers shall remain off the tracks. All workers must comply with federal, state, and local laws and regulations, including but not limited to those of the Occupational Safety and Health Administration (OSHA) and the Federal Railroad Administration (FRA).



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8.0 ENVIRONMENTAL REQUIREMENTS

The Contractor is responsible for obtaining and complying with all permits necessary to complete the work. The Contractor shall determine, and is solely responsible, if any additional permits are required in addition to those listed in **Attachment F**. Contractor shall provide a permitting plan which details all permits which will be required for the project.

8.1 Construction Stormwater Permitting and Management

1. Contractor shall prepare and implement a Project-Specific Storm Water Pollution Prevention Plan (SWPPP), including an Erosion and Sediment Control (ESC) Plan using the Best Management Practices (BMPs) listed in the State of Florida Erosion and Sediment Control Design Manual. The plan shall be prepared by a Florida registered professional engineer.
2. After preparation, Contractor shall submit the SWPPP, including the ESC Plan to the Owner's Engineer for review and acceptance.
3. After the SWPPP is accepted, file a Notice of Intent with the Florida Department of Environmental Protection (FDEP) to request coverage under the Florida Construction General Permit (CGP). The Contractor is responsible for payment of the NOI fee with the submittal. The SWPPP shall be certified by a duly authorized Contractor representative. The FDEP approval letter must be received at least 48 hours in advance of any earth disturbing activities.
4. Install and maintain a rain gauge at the site of a type and in a location approved by the Owner's Engineer. This gauge shall be used as the basis for measuring and recording rainfall at the site.
5. Update the SWPPP as required during changing phases of the work. Maintain an up-to-date copy of the SWPPP and inspection records onsite at all times.
6. Contractor shall, at completion of the Work, file a Notice of Termination with FDEP.
7. Conduct SWPPP inspections in accordance with the requirements of and at the frequency required by the CGP. Inspection shall be conducted by a qualified FDEP Stormwater Management Inspector using the FDEP inspection report form or other form as accepted by the Owner's Engineer.
8. Submit SWPPP inspections weekly to the Owner's Engineer for review. SWPPP Inspection reports shall be signed by a duly authorized Contractor representative.

8.2 Groundwater Recovery and Discharge

1. Recovered groundwater discharge to surface waters shall comply with the requirements of the CGP and the FDEP Rule 62-302 Surface Water Quality Standards.
2. If at any time it is determined the turbidity exceeds the Surface Water Quality Standards, the operation shall cease until corrective measures are implemented and the contractor demonstrates the turbidity meets the standard.

8.3 Air Pollution Control

1. Contractor shall develop a project specific dust control plan in addition to the checklist that is completed as part of the dust permit application for approval by Owner.
2. Contractor shall conduct work in a manner that prevents the release of fugitive dust from the excavations, roads, and all other work areas. At the end of shifts, leave work areas in a condition that prevents the release of fugitive dust during non-work hours. Respond to dust issues even outside of working hours.
3. Contractor shall take significant precautions and employ robust best management practices when working on Blount Island in the vicinity of the Import Car Terminal parking lot, to ensure cars are not contaminated or damaged with any form of dust or debris.
4. Contractor shall minimize air pollution from construction operations.
5. Water surfaces of haul roads, parking areas, cuts, fills, stockpiles, and other disturbed earth materials as necessary to prevent blowing dust. Chemical dust suppressants may not be used without prior Owner approval.



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6. Raw water shall be used on all areas for dust control and moisture conditioning. Water haul logs must be kept and submitted to Owner on a monthly basis. Dust palliatives may not be used without Owner's prior written approval.
7. Burning of waste materials, rubbish, or other debris is not permitted.

8.4 Water Pollution Control

1. Contractor shall comply with procedures outlined in U.S. Environmental Protection Agency manuals entitled, "Guidelines for Erosion and Sedimentation Control Planning" and "Implementation, Processes, Procedures, and Methods to Control Pollution Resulting from All Construction Activity.
2. Contractor shall not dispose of liquid or other materials in drains. Disposal of wastes into streams or waterways is prohibited. Provide acceptable containers for collection and disposal of waste materials, debris, and rubbish.
3. Contractor shall comply with the SWPPP and SPCC Plan spill response/reporting, to include siting of spill response kits. Immediately report all spills to the Owner's Engineer.

8.5 Threatened and Endangered Species Protection

Contractor is responsible for developing a Wildlife Mitigation Plan. Within this plan, Contractor is responsible for monitoring, reporting, and mitigation impacts for any wildlife that may be present within the work area. Contractor personnel are required to be trained in threatened and endangered species awareness, including but not limited to manatees, sea turtles, indigo snakes, and gopher tortoises prior to working on the job site. The training will be provided and conducted by the Contractor's Biologist. The threatened and endangered/protected species may be present in the work area and are not to be disturbed or handled. At a minimum, Contractor shall include the above species in the Wildlife Mitigation Plan.

Portions of this project area are within manatee protection zones. Contractor shall furnish a protected marine animal watch observer(s) as required by permits for this project to prevent injury or death of protected marine species from permitted in-water activities. Observers shall be experienced in observing manatees and marine turtles and meet the requirements of the Florida Fish and Wildlife Conservation Commission (FWC). Contractor shall cease operation of any in-water construction activity upon sighting a protected marine animal within a danger zone of the activity. Additional information is available at the Florida Fish and Wildlife Conservation Commission website and in **Attachment G**.

8.6 Migratory Birds Treaty Act

Contractor shall include migratory birds or other protected birds in the Wildlife Mitigation Plan. Within this plan, Contractor is responsible for control and handling of any migratory fowl or protected birds that may enter the work area. Contractor must conduct operations in compliance with all rules and regulations related to protected birds. Contractor must check for bird nests prior to and during demolition activities. Contractor must appropriately discourage birds from nesting in the work area and is responsible for any delays that may be caused by nesting birds. Consideration must be taken for all activities, including staging and storing of materials. In the event of an active bird nest discovered on the project site, the Contractor's qualified biologist may implement an exclusionary buffer zone which will cause the temporary halt of demolition activities within that buffer zone. The physical limits and time duration of the exclusion will depend on several factors specific to each occurrence, as determined by the Florida Fish and Wildlife Conservation Commission.

8.7 Wetlands Impacts

Conveyor removal operations between the coal terminal and SJRPP will impact existing wetlands. The Owner is pursuing permits, which will be obtained prior to demolition, but after the RFP is issued. Contractor shall comply with the wetlands permit conditions, including but not limited to: work area limits; temporary placement and removal of materials placed waterward of the wetland line; erosion and sediment control; turbidity control; endangered species training, observation, and reporting; endangered species proximity to work area limitations; restoration of impacted areas to pre-existing grade with compatible fill material.



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Prior to placing temporary fill, contractor shall cover the fill area with woven geotextile filter fabric (FDOT Specification 985 Type D1 or D2). At the conclusion of the demolition activities, contractor shall remove the temporary fill and filter fabric. Restore any depressions or damaged areas with compatible fill.

Contractor shall employ the use of floating weighted and non-weighted turbidity barrier(s) for all wetland impacted areas and in-water work to prevent erosion of wetland areas or degradation of water quality during conveyor structure removal activities.

8.8 Petroleum Storage and Fueling Procedures

Contractor shall prepare a Spill Prevention Control and Countermeasure Plan in accordance with 40 CFR Part 112 for all fuel and lubricant storage and submit to the Owner's Engineer for review. Aggregate petroleum storage capacity of the entire project >10,000 gallons will require the plan to be certified by a Florida registered professional engineer. Contractor shall develop procedures and controls to ensure that no spills occur from storage, loading, transfer, and unloading operations.

Equipment maintenance for the project site shall only be performed in a pre-designated area with a pre-approved containment plan. Submit the plan to the Owner's Engineer for review. The plan shall also include provision for monitoring, collection, disposal, and manifesting of all liquids and sediments.

8.9 Spill Reporting Procedures

Contractor shall report all spills (gas, liquid or dry bulk material), regardless of size and whether the spill was contained. Initial notification shall be made to the Owner's Engineer.

Report the release to the Owner using the Owner Spill Reporting Form, which is provided together with the Generation Release Reporting Procedure in **Attachment H**.



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9.0 ASBESTOS ABATEMENT

Contractor is responsible for the permitting, removal, sampling and analysis, and offsite disposal of all asbestos-containing materials (ACM) prior to demolition of any structure. Contractor must comply with all applicable regulations, and FDEP Division of Air Resource Management ACM abatement regulations and permitting requirements. Pre-demolition ACM surveys are provided in **Attachment G**. The Contractor is responsible for estimating the amount of ACM material generated and disposed for each area identified in the ACM reports based on their independent assessment of the ACM surveys and their project-specific asbestos abatement plan. Pre-demolition ACM survey estimates of Probable ACM waste volume are for contractor information only and should not be considered a basis for change. In the event new areas are identified during demolition with ACM not identified in the pre-demolition ACM surveys, the Contractor will perform bulk sampling.

The Contractor will employ qualified asbestos surveyors and a laboratory for testing and analysis which is accredited by the State of Florida. The Contractor shall remove and properly dispose of all regulated asbestos-containing materials (RACM) in the affected buildings/structures identified in **Attachment G**, prior to any demolition activities that would disturb these materials.

ACM has been identified in the following locations:

Zone A - Coal Terminal Service Building Interior Door Caulking (Non-friable). This structure is not designated for removal. Abatement is not required.

Zone A – EER 2 MCC & 2PC Building Doors Caulking (Non-friable). These structures are not designated for removal. Abatement is not required.

Zone A – Metal Shed 1 Window & Edge Putty (Non-friable)

Zone A - Metal Shed 2 Window, Edge Putty, Fan (Non-friable)

Zone C - EER 3 MCC & 3PC Building Doors Caulking (Non-friable)

Zone H - EER 4 MCC Roof Caulk (Non-Friable)

The Contractor shall demolish and dispose of the buildings/structures with non-friable ACM identified in **Attachment G** and dispose in an owner approved Class 1 landfill which accepts these materials.

The Contractor shall have the option of removing and segregating all or portions of the non-friable ACM identified in the buildings/structures and dispose in an owner approved Class 1 landfill which accepts these materials. The remaining waste stream, without the ACM material, shall be designated and disposed as regular C&D.

9.1 Submittals

9.1.1 Contractor Asbestos Abatement Plan(s)

The Contractor shall prepare an asbestos abatement plan for Owner review and approval prior to commencement of abatement activities. The asbestos abatement plan shall include:

- Description of the work procedures to manage ACM in accordance with specified and regulatory requirements. This section will include a list of equipment brought onsite for abatement. Step-by-step details for the sequencing of asbestos-related work.
- Scaffolding or lift plans for access to hard to reach areas.
- Discussion and drawings of regulated work areas, including location of clean and dirty areas, buffer zones, showers, storage areas, change rooms, and local exhaust equipment.
- Project Monitoring to include personal monitoring, Initial Exposure Assessments, perimeter monitoring, and final clearance.
- Quality assurance plan to ensure materials are contained and disposed of in accordance with Federal regulations.
- Any Safety Data Sheets for any approved chemicals brought onsite.
- Examples of a Daily Log and a Sign In/Sign Out Log.



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- Written respiratory protection program
- Permits and licenses for asbestos handling. All current licenses must be presented prior to the execution of any work. Contractor shall provide a current Florida Asbestos Contractor's License, to perform the asbestos-related abatement work for the project.
- Documentation as required by OSHA to include:
 - Copies of current training certificates showing level of training and expiration date for all abatement workers and supervisors.
 - The ability to obtain within 4 hours the following documents:
 1. Name and employee number of the employee,
 2. Copy of the employee's medical examination results, including the medical history, questionnaire, responses, results of any tests, and physician's recommendations.
 3. Physician's written opinions, and
 4. Any employee complaints related to exposure to asbestos; and a copy of the records as provided to the physician as required by OSHA regulations.

9.1.2 Duval County Department of Air Quality Notifications

The National Emission Standards for Hazardous Air Pollutants (**NESHAP**) for asbestos abatement permit application shall be submitted by Contractor to Duval County Department of Air Quality 10 business days prior to any abatement work conducted on site and ensure any amendments are completed throughout the project. Contractor shall provide a copy of the permit notification and amendments to the Owner prior to start of abatement activities.

9.1.3 Health and Safety Plan for Asbestos Abatement

Contractor must submit a Health and Safety Plan (HSP) before beginning removal or disposal activities. This plan may be included in the overall Site Health and Safety Plan. Include in the HSP required personal protective equipment, respiratory protection, asbestos regulated work area controls, and hazard communication program.

9.1.4 Air Sampling Results

Conduct fiber counting for air quality during each sampling event. Provide results within 24 hours of completion of each sampling event. Notify the Owner immediately if any airborne levels of asbestos fibers are encountered above levels established in the HSP. Provide a table including sampling results within 10 working days of the date of collection. Provide a signature of the authorized representative of testing laboratory.

9.1.5 Manifests

Submit waste documentation for all shipments removed from the property including any waste profiles. Waste disposal manifests will be signed by the Owner. Provide final completed copies of the Waste Shipment Record for shipments of all waste material as specified in 40 CFR Part 61, Subpart M, and other required state waste manifest shipment records within 10 days of project completion.

9.1.6 Additional Bulk Sampling Results

Submit copies of all analysis performed for disposal. Include information regarding who sampled, describe the sample method, rationale, results, and chain-of-custody for all testing.

9.2 Competent Person(s)

As defined in 29 CFR Part 1926, Contractor should be experienced in administering and supervising asbestos abatement projects. A competent person should be familiar with safe and reasonable work practices, abatement methods, protective measures for personnel, inspection of asbestos abatement work areas, evaluating the adequacy of containment barriers, placement and operation of local exhaust systems, waste containment and disposal procedures, decontamination units, and site health and safety health requirements. The designated "competent person(s)" will be responsible for compliance with applicable local, State, and Federal requirements



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and for enforcing the site-specific Asbestos Abatement Health and Safety Plan (AAHSP). The designated “competent person(s)” will be onsite during all abatement activities.

9.3 Equipment and Materials

Contractor shall supply all labor, tools, disposal and access equipment including scissor or boom style lifts and scaffolding as required to be able to properly remove and dispose of all regulated asbestos containing materials (RACM) as listed in **Attachment G**. All scaffolding, temporary stairs, floors, ladders, platforms, railings, etc., required for the Work are the responsibility of the Contractor. Contractor will ensure they follow all procedures in OSHA 29CFR1910. The Subcontractor shall also plan to coordinate and work closely with those responsible for performing the third-party air monitoring.

Contractor shall be responsible for providing water and electrical service to the designated work areas.

9.4 Abatement Activities

Owner has provided results from pre-demolition asbestos and environmental survey reports for both units and are provided in **Attachment G**. Contractor shall conduct site inspections as required to prepare the Contractor’s Asbestos Abatement Plan for any asbestos containing materials (ACM) that require removal prior to demolition. Abatement activities will be conducted after required surveys, project designs and regulatory 10-business day notifications are completed. Surveys, designs and notifications will be reviewed by Owner prior to agency submittal by the Contractor.

Contractor must describe their abatement processes in their response to this proposal. The process includes abatement methods, control of asbestos particles for worker safety, disposal means, personal air monitoring and confirmation sampling.

Contractor will be responsible for the disposal of all ACM waste generated throughout the project. ACM will be disposed in a permitted off-site landfill that has been pre-approved by Owner.

9.5 Potable Water for Showers

Contractor will be responsible for procurement and transport of potable water to work locations and properly disposing of any waste water from the containment showering process.

9.6 Final Cleaning

Once cleaning has been completed, conduct a visual pre-inspection of the cleaned area. A final air monitoring event will be performed to verify adequacy of clean-up. The Owner will provide an appropriately trained and qualified Abatement Project Monitor to perform final visual inspection and final clearance sampling and analysis. Re-cleaning, follow-up inspections, and additional final clearance samples shall be at the Contractor’s expense. Upon completion of the final cleaning, conduct a final visual inspection of the cleaned area and document the results. If the Owner or Owner’s Project Monitor determines that the abatement area does not meet final cleaning requirements, re-clean as necessary and conduct additional follow-up inspection with the Owner’s Project Monitor.

9.7 Lock Down Encapsulant

In areas where friable ACM was removed, after clean-up of gross contamination, and final visual inspection, but before removing plastic barriers, apply a post removal (lockdown) encapsulant to floor, walls, ceilings, and other surfaces in the removal area. When work was limited to glove bags only apply encapsulate to item within glove bag.

9.8 Air Monitoring/Final Clearance

9.8.1 Personal Air Monitoring

The asbestos abatement contractor shall be responsible for collecting daily OSHA air samples for their personnel. These samples shall be collected from the worker’s breathing zone, which is 6” to 8” from the respirator. The sample cassette shall be secured to the collar or lapel of the employee during the monitoring activity. Samples will be collected for both the 8-hour time weighted average (TWA) and the 30-minute



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excursion limit (EL) following the best available method, including proper calibration and collection of minimum acceptable volumes.

Samples will initially be collected from a representative number of employees, at a minimum rate of 25 percent (1 out of 4), for the duration of the project, until successful final clearance testing has been completed.

The abatement contractor shall be responsible for posting the results of the daily OSHA air samples at the beginning of each shift for the previous day worked on that shift. The abatement contractor shall also be responsible for maintaining, calibrating, and operating the sampling equipment used for personnel monitoring. The laboratory performing the analysis of the abatement contractor OSHA monitoring samples shall have *National Institute for Occupational Safety and Health (NIOSH) 582* and *Asbestos Hazard Emergency Response Act (AHERA)* supervisor certifications. Samples shall be analyzed following EPA Method 7400. Samples will be provided to the Owner as outlined in Section 9.1.4 Air Sample Results.

9.8.2 Third Party Perimeter Air Monitoring

Owner will have available a third-party project monitor to conduct air monitoring to provide the onsite area monitoring to develop statistically valid PCM sampling criteria. The criteria will include gathering samples in specific locations during specific work activities to obtain an acceptable mean and variance for each sample location and task. Sample locations may include decontamination unit, bag-out, inside the regulated work area, outside work area (both occupied and unoccupied), and building exterior. The project monitor shall also complete the final clearance of each established containment.

9.8.3 Final Clearance Air Monitoring

Prior to conducting final air clearance monitoring, conduct a final visual inspection with the Project Monitor. Final clearance air monitoring shall not begin until acceptance of this final cleaning by the Project Monitor. Following the completion of cleanup operations, passing final visual inspections, and after encapsulant has completely dried; the Project Monitor will collect clearance samples. A minimum of five clearance air samples will be collected and analyzed by polarized light microscopy (PCM), in accordance with NIOSH Method 7400 and all clearance samples must be below 0.01 fibers per cubic centimeter (f/cc). The samples will be analyzed with either an on-site mobile laboratory or an offsite location by an accredited PCM technician.



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10.0 DEMOLITION

10.1 General Information

Contractor shall be responsible for submitting a detailed demolition sequencing plan and task specific execution plans throughout the life of the project.

Buildings, structures, equipment, and other facilities scheduled for demolition are organized by area as shown on the drawings in **Attachment A**.

Contractor shall provide copies of operator certifications for all personnel operating cranes, forklifts, and other lift equipment. Contractor shall provide lift equipment certification of inspection and lift rating prior to mobilization of equipment.

Aircraft shall not be used for removal or demolition on this project.

Unless shown or specified otherwise, demolition activities include the complete removal of above ground structures, pipelines, foundations, floor slabs, concrete pads and pavements. Below ground removals include complete removal of buried piping, duct banks, and cables encountered to the specified clearance depths.

After award and prior to start of the work, contractor shall conduct a site walk with the Owner to verify facilities to be removed and facilities to remain.

Contractor shall coordinate with Owner and Owner's Engineer prior to disconnecting any above and below ground utilities that service the facilities. Contractor is responsible for disconnecting and de-terminating electrical connections, isolating mechanical systems, and lock-out tag-out prior to commencing demolition activities in an area.

High-pressure washing may be used in areas of coal and coal-fines impacted areas of the equipment. The Contractor is responsible for managing, containerizing, and disposing of any decontamination water generated during demolition at an Owner-approved facility.

10.1.1 Exposed Metal Embedded in Concrete Remaining In Place

Owner has designated some conveyor supports to be cut off flush above grade with the supporting concrete surface. When this results in leaving an exposed metal anchor, plate, rebar, or attachment (e.g. CT-3 bent caps on the causeway or CT-1 flush cuts on the coal terminal dock), the remaining metal shall be coated with a heavy coat of Sherwin Williams aluminum epoxy mastic.

10.1.2 Scrap Processing and Concrete Crushing Limitations

Contractor shall minimize scrap processing within **Zone A** through **Zone G**. Conveyor sections, tower beams, bent columns and other metal scrap shall be sized to the maximum allowable for transport over the road to an off-site facility or to the SJRPP site where the contractor can complete processing, sizing, and separation prior to shipment to recycling vendors.

Concrete crushing operations are not authorized on any portions of the project from **Zone A** through **Zone H**. Concrete crushing operations are authorized on the SJRPP site or at an off-site vendor facility.

10.1.3 Trees and Vegetation

During demolition, Owner will provide services to mow the grass and vegetation along the conveyor alignment on the Power Park site, Blount Island, and at the Coal Terminal. Contractor shall coordinate scheduling and provide access for the mowing crew.

Trees shall not be removed without advance authorization from the Owner's Engineer.



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10.1.4 Storage Tanks

There are no known underground storage tanks (USTs) located within the demolition boundary.

Contractor is responsible for removing the remaining raw water aboveground storage tank (AST) located at the coal terminal.

10.1.5 Transformers

Contractor is responsible for removing designated dry and oil filled-type transformers within the project limits, except those that are designated to remain on site. Contractor is required to test the oil in the transformers to determine proper disposal methods, unless stated on the nameplate that the transformer contains less than 1 ppm PCBs.

10.1.6 Below Grade Excavation Guidance

Prior to conducting any below grade work, Contractor shall at a minimum follow items described in Figure 2 – Below Grade Excavation Guidance.

PROCEDURE	KEY DISTANCE OR CLEARANCE
Surface Location of Active Below-Grade Facilities/Utilities	Before beginning mechanical excavation or other potentially destructive below grade activity, all active facilities and utilities within the perimeter of the excavation dig area and extending 10 feet laterally must be surface located and marked. Contractor shall contact Florida Sunshine 811
Positive Identification /Exposure of Active Below-Grade Facilities/Utilities	Positive identification shall be made for active facilities/utilities within the perimeter of the proposed excavation utilizing hydrovac or hand excavation techniques of sufficient width to visually identify depth, size, and alignment of buried facilities. Probing, GPS locating, and line sweeps are not considered to be positive identification.
Excavation Procedures	The Contractor shall positively identify all buried facilities which enter or cross through an excavation, as follows: <ul style="list-style-type: none">• Positively identify utilities and any appurtenances such as valves, vents, manholes, pull boxes, and abandoned facilities.• Expose any existing and adjacent utilities to identify location, depth, size, and type of utility.• All hand dug or hydrovac exploration holes will be covered and guarded by barricade fencing to prevent persons or wildlife falling into the open excavation.• When facilities/utilities are positively identified, the Contractor shall conduct a visual check to confirm the locator's stakes accurately reflect the location of the known facility or utility. If positive verification of a buried facility or utility is lost due to material accumulation (dirt, water, etc.), the buried facility must be reaffirmed as positively identified before mechanical equipment can be used in the excavation.



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PROCEDURE	KEY DISTANCE OR CLEARANCE
	<ul style="list-style-type: none"> Provide and maintain necessary means of entering and exiting the excavation every 20 feet, utilizing ladders extending at least 3 feet above the excavation or sloped walkways that do not exceed 4:1 slope. Store spoil piles at least 5 feet from the edge of the excavation and piles shall be sloped at an angle of not more than 45 degrees. Keep all excavations free of accumulation of storm water

Figure 1 – Below Grade Excavation Guidance

10.2 Conveyor Belt, Universal Waste, and Oil Removal

The scope of work below shall be performed in advance of any conveyor demolition activities.

10.2.1 Conveyor Belt Removal

The 42-inch wide belts on conveyors CT-1, CT-2, and CT-3 shall be removed prior to demolition activities. Contractor shall furnish and operate applicable cranes and lift equipment for this specialty work to handle the weight and length of belts and counterweights. Contractor shall furnish reels, spools, or other rollers of the proper size and rating to remove, stage, and transport the belts to an offsite recycler or disposal facility. Upon removal of the belts, the Contractor shall ensure the counterweights, tensioners, and cables are secured in a safe position. Contractor may temporarily use belt materials for a debris shield or mat material when working in proximity to adjacent sensitive areas of the project (e.g. adjacent car lots).

10.2.2 Universal Waste Removal

The Contractor shall remove all remaining universal waste within the demolition zones. This includes, but is not limited to:

- lamps
- ballasts
- batteries
- thermostats
- smoke detectors
- mercury-containing devices
- used electronics
- fire extinguishers
- refrigerants

Lamps shall be removed intact, secured in packaging consistent with maintaining the waste without breakage and transported to a universal waste recycler. Any broken lamps shall be cleaned up and the remnants also taken to the recycler. Refrigerants shall be recovered by a licensed refrigeration contractor and recycled. Fire extinguishers shall become the property of the Contractor for its use or recycling.

10.2.3 Motor, Gear Box, And Compressor Oil Removal

The Contractor shall drain oil from the motors, gear boxes and hydraulic systems of the conveyor equipment and the oil from the air conditioning compressors in the substations into approved containers and transport to an off-site recycler. An Owner's representative shall be present during all oil draining and transport activities. The Contractor shall safely remove the oil in a manner that prevents spillage. Any spilled oil will be promptly cleaned up by the Contractor and the waste shall be transported to an Owner-



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approved off-site disposal facility. Conveyor equipment oil (gearboxes) typically used a Mobile Multi-Purpose ATF, SHC 630, SCH 634, Mobilith AW 1 and AW 2, DTE 15M, DTE oil. Comply with all laws associated with transporting over public roadways. Used oil containers shall be properly and clearly labelled.

10.3 Zone A – Coal Terminal

The former coal terminal, located on the south end of Blount Island bordering the St Johns River, is comprised of a dock, a clamshell style ship unloader, conveyors, a service building, an electrical substation with switchgear buildings (EER 2), a deep well, raw water tank, and small outlying structures.

10.3.1 Safety, Security, Dust, and Sediment Control

Normal access to JEA's coal shipping terminal is via the JPA security gates. Contractor shall be responsible for all coordination with JPA for any permitting or traffic control which may be required to obtain access to and from the area. Contractor travel on paved roadways on Blount Island will require proper badging and security authorizations from JPA.

JPA will allow an alternate access to JEA's shipping terminal via Zone B. See Zone B portion of this specification. Regardless of the route into Zone A, all personnel accessing the area south of the guard house inside Zone A must possess the proper TWIC and JPA badge.

A portion of this zone lies within the US Marine Corps Blount Island Command (USMC-BIC) exercise and movement safety radius. Contractor shall cease all operations, and if necessary, evacuate the area whenever directed by USMC-BIC or JPA.

The coal terminal area has open space which may be used for laydown and staging of equipment and materials. Contractor shall restore any damaged grassed areas with bahia sod.

JEA's 230 KV transmission towers and 26KV distribution lines are located within this zone. Contractor shall observe due caution for all work in proximity to the towers, transmission lines, and distribution lines.

An adjacent Blount Island tenant storing new vehicles is located directly north of this zone. The tenant's property is approximately 100 acres in size and can store up to 170 cars per acre. In addition, the paved lot in the northwest corner of JEA's property also periodically stores new automobiles. Contractor shall employ robust dust control and sediment control measures to prevent any dust or sediment from leaving this zone. Contractor shall setup and employ debris shields between all demolition activities and the tenant's property and the lot on JEA's property. Debris shields shall be of sufficient height, width, and durability to prevent any debris from leaving the site. Contractor shall be responsible and pay for any and all vehicle impacts as a result of the Contractor's activities. This includes, but is not limited to; paying for damages to cars stored on the tenant's lot and JEA's property lot caused by Contractor's activities; washing cars stored on the tenant's lot or JEA's lot to remove dust caused by Contractor's activities.

10.3.2 Above Grade Demolition

Contractor shall remove the following as shown in **Attachment A**. Reference drawings are listed in **Attachment B**:

- Conveyor segment CT-1 and its support structures located on the pier, Remove CT-1 concrete pedestals flush with the pier surface.
- Transfer Tower 1 (transition from CT-1 to CT-2). Remove associated concrete curb flush with the pier surface.
- Conveyor segment CT-2 from Transfer Tower 1 to Bent B18.
- Associated conveyor electrical panels, conduits, and piping
- Ship unloader crane and support appurtenances,
- Ship unloader power track tray and support framing, including the H-columns. Remove the H-columns flush with the plates on the back side of the pier. Remove the pipe columns flush with the pier surface.



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- Coal clam shells (3),
- Limestone clam shell,
- Small outlying structures, debris piles, concrete poles, and hoses.
- Deep well pump, motor, piping, piping supports, and valves.
- Water storage tank, storage tank slab, piping, bladder tank, pump, and appurtenances.
- Cut or burn and remove all exposed anchor bolts, bearing plates, and connections flush with the surfaces to remain

10.3.3 Below Grade Demolition

10.3.3.1 Wetlands

Wetlands are present in this area of the conveyor removal. Work to access and remove the conveyor will temporarily impact the wetlands located on the coal terminal property and within the JPA property. Contractor shall follow the guidance in Section 8.7 and comply with the permit requirements to be issued from the regulatory agencies.

10.3.3.2 Foundations

The conveyor foundations footings, slabs, stem walls, pile caps, and piles shall be excavated and removed to a depth of three (3) feet below existing grade throughout the zone. Below-grade foundations must be removed down to piers, if applicable all other equipment pedestals will be removed completely. Backfill the excavated area with clean fill to match the surrounding grade. Non-wetland excavation areas shall be covered with bahia sod.

10.3.3.3 Underground Water Piping

Fill the below-grade service water piping under the main access road with grout or flowable fill.

10.3.3.4 Pump Station & Washdown Trench

The pump station located on the south side of the service building is connected to the Blount Island sanitary sewer system. Contractor shall clean and flush this containment and tanks. Dispose of the material using a port-o-let or septic disposal contractor. Lift station is to remain connected and in-place.

10.3.3.5 Washdown Sump

Contractor shall clean out the washdown sump and trench adjacent to the washdown slab, located at the south end of the service building, Washdown sump is to remain in-place.

10.3.4 Equipment or Structures Remaining After Demolition

The deep water well shall remain after demolition. Contractor shall electrically isolate and de-terminate the pump motor in EER 2. Remove the pump motor power cables between EER 2 and the well. Remove the pump, motor, and piping from the well. Seal the well. The well may be under artesian pressure. Contractor shall use a Florida licensed water well contractor for the well pump removal and well sealing activities.

The electrical panel located near Bent B11 and its associated incoming conduits shall be protected and remain after demolition. The outgoing conduits (and cable) from this panel shall be removed.

The pier caps supporting the conveyor to the shipping dock also support the roadway bridge. Foundations from Bents B1 to B8 shall remain in place.

The crane rails embedded in the pier, service building, service building lift station, washdown sump, light poles, guard shack, EER 2 and associated electrical equipment, fencing, roadways, and parking areas shall remain after demolition.



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10.4 Zone B – CT-2 Conveyor from Coal Terminal to Transfer Tower 2

These conveyor segments begin at the north end of the coal terminal property and extend up to, but does not include Transfer Tower 2. The conveyor crosses over William Mills Street and a seldom used rail line and then back into a fenced area.

10.4.1 Safety, Security, Environmental, Dust, and Sediment Control

The conveyor segments between the coal terminal and the fence line north of the rail line can only be accessed via the JPA security gates. Contractor shall be responsible for all coordination with JPA for any permitting or traffic control which may be required to obtain access to and from the area. Contractor travel on paved roadways on Blount Island will require proper badging and security authorizations from JPA.

The conveyor alignment in this segment crosses a seldom used, but active rail line. Contractor shall adhere to all JPA and CSXT requirements, which include, but are not limited to those outlined in Section 7 of this specification.

The fenced area beginning north of the rail line and south of Bent B20 is under the security control of the JPA. This fenced area may be accessed from the north end of Blount Island near Transfer Tower 2 without TWIC or JPA badging or security escort. However, Contractor shall still comply with the rules, restrictions, and inspections requirements of the JPA.

The fence line on the east side of this zone is the separation between JPA property and the USMC-BIC. Contractor shall not enter, cross, or damage this fence. Zone B lies within the USMC-BIC exercise and movement safety radius. Contractor shall cease all operations, and if necessary, evacuate the area whenever directed by USMC-BIC or JPA.

The JPA area outside the JEA conveyor easement between the conveyor fence on the west and the USMC-BIC fence on the east is available for laydown and staging of equipment and materials. Contractor may use the area for laydown and staging and shall restore the area to its pre-construction condition.

JEA's 230 KV transmission towers are located within this zone. Contractor shall observe due caution for all work in proximity to the towers and transmission lines.

An adjacent Blount Island tenant storing new vehicles is located directly west of this zone. The tenant's property is approximately 100 acres in size and can store up to 170 cars per acre. Contractor shall employ robust dust control and sediment control measures to prevent any dust or sediment from leaving this zone. Contractor shall setup and employ debris shields between all active demolition activities and this tenant's property. Debris shields shall be of sufficient height, width, and durability to prevent any debris from leaving the site. Contractor shall be responsible and pay for any and all vehicle impacts as a result of the Contractor's activities. This includes, but is not limited to; paying for damages to cars stored on the tenant's lot caused by Contractor's activities; washing cars stored on the tenant's lot to remove dust caused by Contractor's activities.

10.4.2 Access to Zone A from Zone B

JPA has granted limited access to Zone A through Zone B with the addition of a rail crossing and installation of security fencing across William Mills Street. Use of this method to access Zone A is not required. Should the Contractor prefer to access Zone A through the normal Blount Island Security entry, including proper badging, the Contractor is not required to install the rail crossing and fencing. Use of Zone A access through Zone B requires daily prior approval from JPA Security. Contractor shall cease use of this access when directed by JPA. Other tenants may require temporary access through the fenced area across William Mills Street. When this occurs, Contractor shall provide temporary JPA contracted security during these access periods. Note: To access the Zone A area south of the guard shack still requires personnel to possess a TWIC card and JPA badge. The rail crossing and fence should be constructed after the conveyor segments between B18 and B20 are removed.

10.4.2.1 Rail Crossing Construction





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If planning to access Zone A through Zone B, Contractor shall construct a rail crossing in the location shown on the plans. Crossing shall be a Light Duty Road Crossing – Bituminous Concrete with Rubber Panels Type 2521 as detailed in the CSX Transportation Standard Specifications for the Design and Construction of Private Sidetracks (latest edition). Granite ballast material leading up to and from the crossing shall be placed to a sufficient length, width, depth, and thickness to support construction equipment traffic.

10.4.2.2 Tracked Equipment Access

Tracked equipment shall not cross the rail crossing or any paved surface without placing heavy plywood or other temporary protection on the surface.

10.4.2.3 Fence Construction

If planning to access Zone A through Zone B, Contractor shall construct fencing and gates in the locations shown on the plans. Fencing shall be FDOT Type B (Index 802). Temporarily remove the railroad crossing sign and re-install.

10.4.3 Above Grade Demolition

Contractor shall remove the following as shown in **Attachment A**. Reference drawings are listed in **Attachment B**..

- Conveyor segment CT-2 from Bent 18 up to, but not including Transfer Tower 2,
- Cut or burn and remove all exposed anchor bolts, bearing plates, and connections flush with the surfaces to remain,
- Light poles.

10.4.4 Below Grade Demolition

10.4.4.1 Conveyor Washdown Sumps

The concrete sumps shall have all sludges and liquids removed and disposed. Pressure wash the sumps and curbed areas until all visual coal fines have been removed. Then excavate and completely remove the concrete.

10.4.4.2 Foundations

Below-grade foundations, footing and caissons will be excavated and removed to a depth of four (4) feet below final grade throughout the zone with exception to Bent 19 (B19) shown on Drawing No. D-10 provided in **Attachment A**. B19 shall be excavated and removed to a minimum depth of three (3) feet below final grade. Below-grade foundations must be removed down to piers, if applicable all other equipment pedestals will be removed completely.

Unimat concrete revetment areas are located in multiple areas of this zone. Replace any damaged or broken unimat revetment to its pre-existing conditions following the manufacturer guidance and instructions. Contractor shall submit restoration plans for review and acceptance by the Owner's Engineer.

10.4.4.3 Duct Banks & Piping

Duct banks that may be present in the zone shall be completely removed to the bottom of the concrete or four (4) feet whichever is the greatest depth. Contractor is responsible for removing the cable, conduit and the concrete. All manholes will be completely removed.

10.4.4.4 Coal Fines and Coal Fines Impacted Soil

Excavate and dispose of the coal fines and coal fines impacted soil as delineated on the drawings. Backfill and restore the excavated areas to pre-existing conditions.



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10.4.5 Equipment or Structures Remaining After Demolition

The pile caps supporting the conveyor bents that cross the large drainage pits, including Bents B26C, B27A, B33B, B33C, B47A, and B48A shall remain in place.

10.5 Zone C – Transfer Tower 2 and CT-3 Conveyor from Transfer Tower 2 to Bent C10

These conveyor segments begin at Transfer Tower 2 and extend north to Bent C10 on the north end of Blount Island.

10.5.1 Safety, Security, Access, Road Closures, Dust and Sediment Control

This area can be accessed without TWIC or JPA badging or security escort. However, Contractor shall comply with the rules, restrictions, and inspections requirements of the JPA.

This zone has limited space for laydown and staging of equipment and materials. Contractor shall only temporarily stage scrap materials in this area. Steel and concrete materials shall be moved within 24 hours to other areas outside of this zone for processing and sizing. Restore the area to its pre-construction condition.

The conveyor alignment in this segment crosses and parallels active rail lines. Contractor shall adhere to all JPA and CSXT requirements, which include, but are not limited to those outlined in Section 7 of this specification. Conveyor segment removals will require use of truck or crawler-mounted cranes and temporary intersection closures. Cranes and other lift equipment shall not be positioned on the rail or rail ties. Lifting or suspending loads over or across the rail is not allowed. Note the crane lifting capacity and ratings required in the CSXT Public Project Information Manual.

Contractor shall submit road closure plans for review and acceptance by the Owner's Engineer and JPA. Contractor shall not inhibit or block access to JPA roadways, except when specifically authorized in writing for a designated date and time period. Road closure plans shall be submitted a minimum of four weeks in advance of the requested road closure date.

Channel View Blvd leads to the main gate of the USMC-BIC. During this roadway segment closure, an alternate ingress/egress route shall be constructed as shown in the plans capable of supporting commercial and emergency response vehicles. Closures of this segment are generally allowed during the following time periods:

- Weekends – from Friday 5:30 PM to Monday 4:30 AM
- Weeknights - from 5:30 PM to 4:30 AM

Road closures shall not be authorized during JPA or USMC-BIC events.

JEA's 230 KV transmission towers, overhead 26 KV power lines and overhead fiber optic cable are located within this zone in very close proximity to the conveyor segments. Contractor shall observe due caution for all work in proximity to the towers, transmission lines, power lines, and fiber optic cable. These cautions and damage avoidance procedures shall be incorporated into the demolition plans for the segments in this zone.

An adjacent Blount Island tenant storing new vehicles is located next to this zone. The tenant's property is approximately 100 acres in size and can store up to 170 cars per acre. Contractor shall employ robust dust control and sediment control measures to prevent any dust or sediment from leaving this zone. Contractor shall setup and employ debris shields between all active demolition activities and this tenant. Debris shields shall be of sufficient height, width, and durability to prevent any debris from leaving the site. Contractor shall be responsible and pay for any and all vehicle impacts as a result of dust or debris from the Contractor's activities. This includes, but is not limited to; paying for damages to cars stored on the tenant's lot caused by Contractor's activities; washing cars stored on the tenant's lot to remove dust caused by Contractor's activities.

10.5.2 Above Grade Demolition

Contractor shall remove the following as shown in **Attachment A**. Reference drawings are listed in **Attachment B**.



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- Transfer Tower 2 (transition from CT-2 to CT-3).
- Conveyor segment CT-3 from Transfer Tower 2 to Bent C10.
- EER 3 power center and motor control center buildings and associated fencing.
- Deep well pump, motor, piping, bollards, pressure tank, and shed.
- Fencing around Transfer Tower 2 and along the conveyor sections TC-1 and TC-2
- Cut or burn and remove all exposed anchor bolts, bearing plates, and connections flush with the surfaces to remain

10.5.3 Below Grade Demolition

10.5.3.1 Wetlands

Wetlands are present in this area of the conveyor removal. Work to access and remove the conveyor will temporarily impact the wetlands located within the JPA property. Contractor shall follow the guidance in Section 8.7 and comply with the permit requirements to be issued from the regulatory agencies.

10.5.3.2 Conveyor Washdown and Transfer Tower 2 Sumps

The concrete sumps shall have all sludges and liquids removed and disposed. Pressure wash the sumps and curbed areas until all visual coal fines have been removed. Then excavate and completely remove the concrete.

10.5.3.3 Foundations

Below-grade foundations, footing and caissons will be excavated and removed to a depth of three (3) feet below final grade throughout the zone. Below-grade foundations must be removed down to piers, if applicable all other equipment pedestals will be removed completely.

Completely remove the Transfer Tower 2 slab, curb, sump, and foundation.

Remove the concrete swale under Conveyor Sections TC-1 and TC-2.

10.5.3.4 Duct Banks & Piping

Throughout the area there are a series of duct banks which provided power to equipment and the facility. These duct banks are electrical conduit encased in concrete or direct buried conduit. Duct banks shall be completely removed to the bottom of the concrete or three (3) feet whichever is the greatest depth. Contractor is responsible for removing the cable, conduit and the concrete. All manholes will be completely removed.

10.5.3.5 Coal Fines and Coal Fines Impacted Soil

Excavate and dispose of the coal fines and coal fines impacted soil as delineated on the drawings. Backfill and restore the excavated areas to pre-existing conditions.

10.5.3.6 Equipment or Structures Remaining After Demolition

The water well located adjacent to the EER 3 compound shall remain after demolition. Contractor shall remove the pump, motor, and piping and seal the well. The well may be under artesian pressure. Contractor shall use a Florida licensed water well contractor for the well pump removal and well sealing activities. The EER 3 designated transformers and associated electrical equipment shall remain after demolition.

10.6 Zone D – CT-3 Conveyor from Bent C10 to Bent C26

These conveyor segments begin at Bent C10 on the north end of Blount Island and extend across the St Johns River Channel, south of Heckscher Drive.



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10.6.1 Safety, Security, Access, Road Closures

This area can be accessed without TWIC or JPA badging or security escort. However, Contractor shall comply with the rules, restrictions, and inspections requirements of the JPA.

The conveyor alignment in this segment parallels the active rail trestle. Contractor shall adhere to all JPA and CSXT requirements, which include, but are not limited to those outlined in Section 7 of this specification. Conveyor segment removals will require use of a barge-mounted crane. The barge may be positioned within the area between the conveyor and the Blount Island Blvd bridge or to the east of the Blount Island Blvd bridge. Positioning the crane and barge east of the Blount Island Blvd bridge will require temporary closure of the bridge. Lifts over the bridge shall not be performed without an approved traffic control plan and roadway closure in place authorized by the JPA. Note the crane lifting capacity and ratings required in the CSXT Public Project Information Manual.

Contractor shall submit road closure plans for review and acceptance by the Owner's Engineer and JPA for JPA roadways. Road closures shall not be authorized during JPA or USMC-BIC events.

Contractor shall submit road closure plans for review and acceptance by the Owner's Engineer, JPA, and FDOT for FDOT roadways (Heckscher Drive). Weekend closure of Heckscher Drive shall not be authorized during holidays and community events.

Contractor shall not inhibit or block access to JPA or FDOT roadways, except when specifically authorized in writing for a designated date and time period. Road closure plans shall be submitted a minimum of four weeks in advance of the requested road closure date. Closures shall not occur until authorized in writing from the roadway authority. For temporary closure of the Blount Island Blvd bridge or Heckscher Drive, install and operate portable changeable message sign (PCMS) boards a minimum of two weeks in advance of the closure on Heckscher Drive eastbound and westbound, Dave Rawls Blvd southbound, and Blount Island Blvd southbound.

Temporary closure of Heckscher Drive with a detour onto Dave Rawls Blvd and Blount Island Blvd around this segment are generally allowed during the following time periods. Other restrictions may apply during holidays and special events.

- Weekends – from Friday 7:00 PM to Monday 5:30 AM
- Weeknights - from 7:00 PM to 5:30 AM

Temporary closure of the Blount Island Blvd bridge is generally allowed during the following time periods.

Other restrictions may apply during holidays and special events.

- Weekends – from Friday 7:00 PM to Monday 5:30 AM
- Weeknights - from 7:00 PM to 5:30 AM

The Blount Island Blvd bridge closure also requires MOT signs and barricades to block left turns from Heckscher Drive westbound at the following median crossovers:

- Safe Harbor Way
- Crahood Lane
- Northside Generating Station entrance

Bathymetric Survey Information



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A bathymetric survey of the conveyor bents within the St Johns River channel is provided for the Contractor's Information in **Attachment I**. Contractor's reliance on the survey for execution of the work is at the contractor's risk.

10.6.2 Coordination and De-Confliction With Other Contractors

JPA's contractor will be performing rehabilitation work on the rail trestle in this zone during the timeframe of the JEA conveyor demolition project. Contractor shall coordinate and de-conflict its demolition schedule and activities to not interfere or inhibit JPA's trestle contractor's activities.

10.6.3 Demolition Staging and Loading

Contractor may load conveyor sections, pile caps, and piles on a separate barge for removal from the site. Lifting or suspending loads over or across the rail trestle is not allowed. Materials may be staged on the north end of Blount Island or the Blount Island Blvd bridge subject to the road closure limitations. Conveyor sections staged on the Blount Island Blvd bridge shall be staged on cribbing placed to safely distribute the load. Concrete pile caps and piles shall not be staged on the bridge, but may be direct loaded onto trucks on the bridge of sufficient load and dimensional ratings for immediate transport off site subject to the road closure limitations. Debris, refuse, and trash shall be removed from the bridge daily. Restore the area to its pre-construction condition.

10.6.4 Utilities

Utilities, including but not limited to water, sewer, communications, fiber optics, and power are attached to the rail trestle bridge and to the Blount Island Blvd bridge. Utilities connect to these bridges via underground conduits leading to and from the bridges. Contractor shall observe due caution for all work in proximity to the utilities to prevent damage and service interruption. These cautions and damage avoidance procedures shall be incorporated into the demolition plans for the segments in this zone.

10.6.5 Wetlands

Access to remove conveyor segments or walk the crane on and off a barge may require temporary fill to be placed in the wetlands. Clear the area to be filled and place filter fabric on the remaining surface as an indicator of the fill placement. Place clean fill and/or rock of sufficient material type, density, and depth to support the projected loads, within the limits shown in the plans. Once demolition is complete, restore the area to its original contour and elevation by removing the fill material.

Install and maintain erosion, sediment controls, and turbidity barriers as required by the SWPPP and permit to prevent runoff and sediment from entering the wetlands or surface waters.

10.6.6 Above Grade Demolition

Contractor shall remove the following as shown in **Attachment A**. Reference drawings are listed in **Attachment B**:

- Conveyor segments CT-3 from Bent C10 to Bent C26.
- Cut or burn and remove all exposed anchor bolts, bearing plates, and connections flush with the surfaces to remain

10.6.7 Below Grade Demolition

10.6.7.1 Wetlands

Wetlands are present in this area of the conveyor removal. Work to access and remove the conveyor will temporarily impact the wetlands located at the shorelines on the north and south ends of the channel. Contractor shall follow the guidance in Section 8.7 and comply with the permit requirements to be issued from the regulatory agencies.



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10.6.7.2 Foundations

Cut the pilings off to a depth even (flush) with the existing channel mudline. Jetting is not allowed. Take precautions to prevent impacting or damaging the adjacent rail trestle and associated pilings. A submarine survey of the conveyor and trestle pilings is provided in **Attachment I**. Contractor shall submit restoration plans for review and acceptance by the Owner's Engineer.

10.7 Zone E – CT-3 Conveyor from Bent C26 to Bent C30

These conveyor segments begin at Bent C26, south of Heckscher Drive, and extend to Bent C30, north of Heckscher Drive.

10.7.1 Safety, Security, Access, Road Closures

Contractor shall comply with the rules, restrictions, and inspections requirements of the JPA.

The conveyor alignment in this segment parallels the active rail trestle and rail line across Heckscher Drive. Contractor shall adhere to all JPA and CSXT requirements, which include, but are not limited to those outlined in Section 7 of this specification.

Conveyor segment removals will require use of truck or crawler-mounted cranes and temporary intersection closures. Cranes and other lift equipment shall not be positioned on the rail or rail ties. Lifting or suspending loads over or across the rail is not allowed. Note the crane lifting capacity and ratings required in the CSXT Public Project Information Manual.

Access to the areas north and south of Heckscher Drive may require temporary removal of guardrail and signage along Heckscher Drive. Contractor shall obtain a permit from and comply with the requirements of FDOT for temporary removal and replacement of any guardrail and signage removed. Submit temporary road closure and detour plans for review and acceptance by the Owner's Engineer, JPA, and FDOT. Contractor shall not inhibit or block access to JPA or FDOT roadways, except when specifically authorized in writing for a designated date and time period. Road closure plans, including traffic detours, shall be submitted a minimum of four weeks in advance of the requested road closure date. Closures shall not occur until authorized in writing from the roadway authority. For temporary closure of Heckscher Drive, install and operate portable changeable message sign (PCMS) boards a minimum of two weeks in advance of the closure on Heckscher Drive eastbound and westbound, Dave Rawls Blvd southbound, and Blount Island Blvd southbound.

Temporary closure of Heckscher Drive with a detour onto Dave Rawls Blvd and Blount Island Blvd around this segment are generally allowed during the following time periods. Other restrictions may apply during holidays and special events.

- Weekends – from Friday 7:00 PM to Monday 5:30 AM
- Weeknights - from 7:00 PM to 5:30 AM

10.7.2 Demolition Staging and Loading

JEA has secured temporary use of a portion of the Nature Conservancy property located immediately north of Heckscher Drive and east of the conveyor. Contractor shall comply with all elements contained in the agreement between JEA and the property owner. Contractor shall perform a pre-job survey of this area, including topographic and vegetation information and restore the area to its pre-construction condition. Contractor shall install a fence along the east line of the temporary use area to prevent encroachment into unauthorized areas of the Nature Conservancy's property. Fence may be high-visibility orange safety fence or chain link fabric fence. Contractor shall provide a post-restoration survey documenting compliance with the restoration conditions.

Demolition and scrap materials may be temporarily staged within the area shown on the plans. Conveyor sections and appurtenances staged in this area shall be immediately sized for loading on to trucks and



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transported off-site for further processing. Conveyor sections staged in this area at the end of a shift shall be removed from the area before the end of the next shift. Concrete, once removed from its original location, shall not be re-sized or processed in this area, but shall be loaded and transported off-site for further processing or recycling.

10.7.3 Utilities

Utilities, including but not limited to railroad crossing signals, water, sewer, gas, communications, fiber optics, and power are located within this zone. Contractor shall take precautions during conveyor removal to prevent utility damages during demolition. Contractor shall take into consideration the high-pressure gas main located within this zone and any potential impacts on crane placement during lift planning. These cautions and damage avoidance procedures shall be incorporated into the demolition plans for the segments in this zone.

Contractor shall coordinate in advance and include JEA in the lift planning to temporarily de-energize or insulate the 26 KV power lines which are located above the conveyor on the north side of Heckscher Drive.

10.7.4 Wetlands

Access to remove conveyor segments between Bents C28 and C30 will require temporary fill to be placed in the wetlands. Clear the area to be filled and place filter fabric on the remaining surface as an indicator of the fill placement. Place clean fill and/or rock of sufficient material type, density, and depth to support the projected loads, within the limits shown in the plans. Once demolition is complete, restore the area to its original contour and elevation by removing the fill material and filter fabric.

Install and maintain erosion, sediment controls, and turbidity barriers as required by the SWPPP and permit to prevent runoff and sediment from entering the wetlands or surface waters.

10.7.5 Above Grade Demolition

Contractor shall remove the following as shown in **Attachment A**. Reference drawings are listed in **Attachment B**:

- Conveyor segments CT-3 from Bent C26 to Bent C30, including their steel frame supports, stairs, and landings.
- Fencing, gates, posts, wire.
- Cut or burn and remove all exposed anchor bolts, bearing plates, and connections flush with the surfaces to remain

10.7.6 Below Grade Demolition

10.7.6.1 Wetlands

Wetlands are present in this area of the conveyor removal. Work to access and remove the conveyor will temporarily impact the wetlands located along the shorelines north of Heckscher Drive and along the causeway. Contractor shall follow the guidance in Section 8.7 and comply with the permit requirements to be issued from the regulatory agencies.

10.7.6.2 Foundations

Below-grade foundations, footings, caissons, and pile caps will be excavated and removed to a depth of three (3) feet below final grade, except as noted in structures to remain.

10.7.6.3 Equipment or Structures Remaining After Demolition



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The concrete piers at Bents C29 and C30 shall remain in place.

10.7.7 Fence Construction

After conveyor removal and restoration of the Nature Conservancy property, Contractor shall construct up to 140 ft of fencing and one 12-ft wide double-swing gate on the north side of Heckscher Drive in an alignment to be determined by JPA. Fencing shall be FDOT Type B (Index 802).

10.8 Zone F – CT-3 Conveyor from Bent C30 to Bent C50

These conveyor segments begin at Bent C30, north of Heckscher Drive, and extend along the causeway to Bent C50, south of the former SJRPP plant site.

10.8.1 Safety, Security, Access

Contractor shall comply with the rules, restrictions, and inspections requirements of the JPA.

The conveyor alignment in this segment parallels the active rail line along the causeway. Contractor shall adhere to all JPA and CSXT requirements, which include, but are not limited to those outlined in Section 7 of this specification. Conveyor segment removals will require use of cranes and other lift equipment that foul the tracks. Contractor's equipment shall not be positioned on the rail or rail ties. Lifting or suspending loads over or across the rail is not allowed. Note the crane lifting capacity and ratings required in the CSXT Public Project Information Manual.

10.8.2 Demolition Staging and Loading

Conveyor segments removed in Zone F may be temporarily staged in the vacant lot in Zone E. The limitations and restrictions for use and staging on this property shall also apply to Zone F segments. Conveyor segments removed in Zone F may also be staged inside the former SJRPP plant site for staging, processing, and loadout.

10.8.3 Wetlands

Access to remove conveyor segments between Bents C30 and C50 may require temporary fill to be placed in the wetlands. Clear the area to be filled and place filter fabric on the remaining surface as an indicator of the fill placement. Place clean fill and/or rock of sufficient material type, density, and depth to support the projected loads, within the limits shown in the plans. Once demolition is complete, restore the area to its original contour and elevation by removing the fill material and filter fabric.

Install and maintain erosion, sediment controls, and turbidity barriers as required by the SWPPP and permit to prevent runoff and sediment from entering the wetlands or surface waters.

10.8.4 Above Grade Demolition

Contractor shall remove the following as shown in **Attachment A**. Reference drawings are listed in **Attachment B**:

- Conveyor segments CT-3 from Bent C30 to Bent C50, including their steel frame supports.
- Cut or burn and remove all exposed anchor bolts, bearing plates, and connections flush with the surfaces to remain

10.8.5 Below Grade Demolition

10.8.5.1 Wetlands

Wetlands are present in this area of the conveyor removal. Work to access and remove the conveyor will temporarily impact the wetlands located along the causeway. Contractor shall follow the guidance in Section 8.7 and comply with the permit requirements to be issued from the regulatory agencies.

10.8.5.2 Equipment or Structures Remaining After Demolition



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The concrete piers at all Bents in this zone shall remain in place.

10.9 Zone G – CT-3 Conveyor from Bent C50 to Transfer Tower 3

These conveyor segments begin at Bent C50, south of the former SJRPP plant site and extend along north to and including Transfer Tower 3.

10.9.1 Safety, Security, Access

Contractor shall comply with the rules, restrictions, and inspections requirements of the JPA.

The conveyor alignment in this segment parallels the active rail line along the causeway and the plant site. Contractor shall adhere to all JPA and CSXT requirements, which include, but are not limited to those outlined in Section 7 of this specification. Conveyor segment removals will require use of cranes and other lift equipment that may foul the tracks. Contractor's equipment shall not be positioned on the rail or rail ties. Lifting or suspending loads over or across the rail is not allowed. Note the crane lifting capacity and ratings required in the CSXT Public Project Information Manual.

10.9.2 Demolition Staging and Loading

Conveyor segments removed in Zone G may be staged inside the former SJRPP plant site for staging, processing, and loadout.

10.9.3 Wetlands

Access to remove conveyor segments between Bents C50 and C52 may require temporary fill to be placed in the wetlands. Clear the area to be filled and place filter fabric on the remaining surface as an indicator of the fill placement. Place clean fill and/or rock of sufficient material type, density, and depth to support the projected loads, within the limits shown in the plans. Once demolition is complete, restore the area to its original contour and elevation by removing the fill material and filter fabric.

Install and maintain erosion, sediment controls, and turbidity barriers as required by the SWPPP and permit to prevent runoff and sediment from entering the wetlands or surface waters.

10.9.4 Above Grade Demolition

Contractor shall remove the following as shown in **Attachment A**. Reference drawings are listed in **Attachment B**.

- Conveyor segments CT-3 from Bent C50 up to and including Transfer Tower 3, including their steel frame supports, stairs and landings.
- Fencing, gates, posts, wire outside of the south SJRPP main fence line.
- Temporary removal of some fencing may be required for equipment and demolition access. Replace in kind all fencing temporarily removed.
- Cut or burn and remove all exposed anchor bolts, bearing plates, and connections flush with the surfaces to remain

10.9.5 Below Grade Demolition

10.9.5.1 Wetlands

Wetlands are present in this area of the conveyor removal. Work to access and remove the conveyor will temporarily impact the wetlands located along the causeway. Contractor shall follow the guidance in Section 8.7 and comply with the permit requirements to be issued from the regulatory agencies.

10.9.5.2 Conveyor Washdown Sumps

Remove all sludges and liquids from the washdown sumps and curbed areas. Pressure wash the sumps and curbed areas until all visual coal fines have been removed.



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10.9.5.3 Foundations

Below-grade foundations, footings, caissons, and pile caps will be excavated and removed to a depth of three (3) feet below final grade, except as noted in structures to remain.

10.9.5.4 Coal Fines and Coal Fines Impacted Soil

Excavate and dispose of the coal fines and coal fines impacted soil as delineated on the drawings. Backfill and restore the excavated areas to pre-existing conditions. Coal fines within the track structure and ballast shall be vacuumed out without removing the ballast or damaging the rails.

10.9.5.5 Equipment or Structures Remaining After Demolition

The concrete piers at Bents C51 and C52 in this zone shall remain in place.

10.10 Zone H – CT-4 Conveyor from Transfer Tower 3 to Transfer Tower 7

These conveyor segments begin at Transfer Tower 3 and extend north to Transfer Tower 7 inside the former SJRPP plant site.

10.10.1 Safety, Security, Access, Dust and Sediment Control

This zone is located within the former SJRPP plant site, which has space for equipment laydown and staging and processing of scrap and demolition materials.

The conveyor alignment in this segment parallels active rail lines. Contractor shall adhere to all JPA and CSXT requirements for conveyor segment removals, which are done within 25 feet from the outside of the rails, and with equipment that will reach beyond this point as outlined in Section 7 of this specification. Work performed beyond these limitations, may be done without flagging protection or a watchman. Conveyor segment removals will require use of truck or crawler-mounted cranes. Cranes and other lift equipment shall not be positioned on the rail or rail ties. Lifting or suspending loads over or across the rail is not allowed. Note the crane lifting capacity and ratings required in the CSXT Public Project Information Manual.

10.10.2 Above Grade Demolition

Contractor shall remove the following as shown in **Attachment A**. Reference drawings are listed in **Attachment B**:

- Conveyor segment CT-4 from Transfer Tower 3 to Transfer Tower 7.
- EER 4 power center and motor control center buildings and associated fencing.
- Transfer Tower 7
- Cut or burn and remove all exposed anchor bolts, bearing plates, and connections flush with the surfaces to remain

10.10.3 Below Grade Demolition

10.10.3.1 Conveyor Washdown and Transfer Tower 7 Sumps

The concrete sumps shall have all sludges and liquids removed and disposed. Pressure wash the sumps and curbed areas until all visual coal fines have been removed. Then excavate and completely remove the concrete.



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10.10.3.2 Foundations

Below-grade foundations, footing and caissons will be excavated and removed to a depth of three (3) feet below final grade throughout the zone. Below-grade foundations must be removed down to piers, if applicable all other equipment pedestals will be removed completely.

10.10.3.3 Duct Banks & Piping

Throughout the area there are a series of duct banks which provided power to equipment and the facility. These duct banks are electrical conduit encased in concrete or direct buried conduit. Duct banks shall be completely removed to the bottom of the concrete or three (3) feet whichever is the greatest depth. Contractor is responsible for removing the cable, conduit and the concrete. All manholes will be completely removed.

10.10.3.4 Coal Fines and Coal Fines Impacted Soil

Excavate and dispose of the coal fines and coal fines impacted soil as delineated on the drawings. Backfill and restore the excavated areas to pre-existing conditions.

10.10.3.5 Equipment or Structures Remaining After Demolition

The EER 4 designated transformers and associated electrical equipment shall remain after demolition.



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11.0 IMPORTED FILL AND BACKFILL

11.1 Onsite Earth Fill

Onsite earth fill is limited to excess material generated as a result of demolition activities. Earth fill repurposed for backfill shall be well-graded, free of rocks larger than 3 inches, roots or other organic matter, ashes, cinders, debris, or other deleterious material. Owner does not have an onsite borrow pit for Contractor use.

11.2 Imported Earth Fill

Contractor shall select an off-site borrow pit(s) for source of imported earth fill subject to the Owner's approval. Borrow material shall be AASHTO classification A-2-4 or A-3. The contractor shall provide the physical location of the proposed borrow pit(s) to the owner. Contractor shall furnish a certificate (within 3 months prior to first borrow shipment) identifying borrow classification and proctor curve. All imported borrow material shall be sampled at the source and laboratory analyses completed at Contractor's expense at an Owner-approved laboratory for the following list of analyses: Volatile Organic Compounds (VOCs) by EPA Method 8260, Semi-Volatile Organic Compounds (SVOCs) by EPA Method 8270, Total Recoverable Petroleum Hydrocarbons (TRPH) by Method FL-PRO, Poly-Chlorinated Biphenyls (PCBs) by EPA Method 8082, RCRA-8 Metals plus Boron by EPA Methods 6010/7471. The number of samples shall be representative of the borrow source or a minimum 1 per 5,000 cubic yards from each borrow pit or if a visual change of the soil is observed. Bills of lading detailing the source of the backfill will be required for each load delivered and copies will be submitted to the Owner.

Import earth fill deliveries to the project site must be in accordance with the traffic control plan and not interrupt local traffic patterns and flow. Truck traffic shall abide by the posted speed limit for each area of the site at all times. Tires of trucks exiting the site shall be free of soil and any soil tracked onto the public roads shall be immediately cleaned by the contractor.

11.3 Imported Aggregate

All imported aggregate shall be free of ash, rock, or only clean concrete rubble. The aggregate shall meet the requirements of FDOT No. 57 stone in Section 901 of the FDOT Standard Specifications for Road and Bridge Construction (current edition).

11.4 Backfill

Contractor shall backfill only areas where specified. In the event Contractor must remove mistakenly placed backfill all work shall be Contractor's sole expense. Contractor shall provide a strong, incompressible, void-free backfill that will not create settlement. Grade backfill areas to match the adjacent ground surface and provide positive surface water flow in accordance lines and grades detailed in the Site Grading Plan. Contractor shall preserve and protect existing drainage and utilities identified to remain while placing backfill. Contractor shall not use demolition debris other than clean, crushed concrete as backfill. Contractor shall not use any asphalt removed from the site as backfill.

All backfill by contractor shall be placed in uniform loose lifts with a maximum thickness of 12 inches compacted to a minimum of 95 percent of the maximum dry density as measured by ASTM D1557. D1557 at a frequency of every 1,500 square feet. A third-party firm contracted by the Owner will perform the required compaction testing. Contractor must provide 24-hour notice to the Owner when lifts are complete and compaction testing is required. Any backfill not passing the compaction will be reworked by the contractor at no additional expense to the Owner.



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12.0 WASTE AND DEBRIS MANAGEMENT

12.1 General

Activities associated with demolition preparation, equipment conditioning, and demolition may generate a variety of solid, universal, and hazardous waste materials. These materials shall be identified, segregated and properly stockpiled or containerized when generated. Once identified, these materials shall be characterized by the Contractor to permit proper waste classification and the subsequent coordination for proper disposal.

12.2 Waste Management Plan

Contractor shall prepare and submit a waste management plan for review by the Owner's Engineer. The plan shall include, but is not limited to, waste sampling and characterization, waste storage, hazardous waste transportation and disposal, non-hazardous waste transportation and disposal. Identify the proposed waste disposal facilities, transporters, and laboratory to be used for the project for review by the Owner's Engineer.

12.3 Generator Status

The Owner will be the designated generator for wastes generated as a result of the Owner's facility processes. The Owner, or its designated representative, will sign all waste profiles and manifests for its wastes to be disposed off-site.

The Contractor will be the designated generator for all wastes, including hazardous wastes, generated as a result of the Contractor's processes. The Contractor shall sign all waste profiles and manifests for its wastes to be disposed off-site. For Contractor hazardous wastes, a separate hazardous waste identification number shall be obtained from the FDEP by the Contractor. A copy of the Contractor's hazardous waste identification number approval as well as any contractor waste profiles and manifests shall be provided to the Owner in advance of any disposal events.

12.4 Disposal Facilities

Non-Hazardous solid wastes and ACM shall be disposed in a FDEP Class 1 or RCRA Subtitle D Landfill.

Construction and demolition debris shall be disposed in a FDEP Class III, FDEP Class 1, or RCRA Subtitle D Landfill.

Non-Hazardous liquid wastes and sludges shall be disposed in an appropriately licensed non-hazardous waste disposal facility certified to accept the waste classification.

Hazardous Wastes shall be disposed in an appropriately licensed hazardous waste disposal facility certified to accept the waste classification.

12.5 Universal Wastes

Contractor shall dispose of universal wastes from the conveyor and other structures in advance of the demolition. Contractor shall recycle the universal wastes through an approved universal waste processing vendor.

12.6 Waste Characterization and Storage

Waste streams are to be characterized by the Contractor as designated in these specifications and in accordance with the Contractor's Waste Management Plan. The Contractor shall perform a waste determination for each waste stream in accordance with requirements of the receiving facility and applicable Laws and Regulations. Any sampling analysis must be conducted by a NELAP certified laboratory. The Contractor shall include the methods and procedures it proposes for the sampling and analysis of materials generated in the Waste Management Plan. Waste profiles developed by Contractor must be reviewed and approved by the Owner.

Owner will sign all hazardous waste manifests, but Contractor will be responsible for meeting the storage requirements for the applicable generator status for wastes generated as part of the demolition project. These requirements may include the following:

- Hazardous waste containers labeled,



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- Storage containers meet container requirements,
- Shipping waste offsite within 90 days of being generated,
- Weekly documented inspections of storage areas,
- Personnel are properly trained,
- Develop and implement a contingency plan and emergency procedures, and
- Maintain proper records and submit to Owner.

Hazardous and universal wastes must be disposed/recycled at an Owner approved facility. A list of Owner approved waste disposal vendors is provided in **Attachment J**. Wastes accepted by each vendor are listed in Column E.

12.7 Removal and Disposal of Coal Fines and Sludges

Contractor shall remove the coal fines and coal fines mixed with soil within the conveyor areas as designated in the plans. The primary areas where coal fines remain include under and around the conveyor, and conveyor transfer areas.

Coal fine sludge and contact water is present in the transfer tower basins and the conveyor washdown sumps.

Contractor shall sample, characterize, and profile these waste streams. Characterization sample analyses shall include the RCRA 8 metals, boron, molybdenum, nickel, and vanadium for Total and TCLP analyses by EPA Method 6010/7471.

Separate waste characterization samples are required as follows:

- Soil excavation area near Tower 2
- Soil excavation area near Tower 3
- Soil excavations around washdown sumps
- Washdown sumps contact water (1 sample for all)
- Washdown sumps sludge (1 sample for all)
- Tower 2 sump contact water
- Tower 2 sump sludge
- Tower 3 sump contact water
- Tower 3 sump sludge
- Tower 7 sump contact water
- Tower 7 sump sludge

Dispose of the wastes as described in Section 12.4.

12.8 Transport of Hazardous Materials

For transportation purposes, it is assumed that all materials listed under 49 CFR 172.101 are considered Hazardous Materials. Contractor shall evaluate all Regulated Materials discovered at the Project Site to designate which specific materials are to be classified as Hazardous Materials for transportation purposes.

Contractor shall package all Hazardous Materials for transportation and storage in accordance with 49 CFR 172.101; any applicable sections of 49 CFR 173 and other applicable Laws and Regulations.

Contractor must prepare shipping papers including any Hazardous Waste manifests for transport of Regulated Materials. Contractor must submit such waste management records to the Owner for review and approval prior to removal of any such material from the Site.



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At the time the waste manifest is prepared, Contractor must make available for review by the Owner all packaged and/or bulk-loaded Regulated Materials and wastes. In the period between observation by the Owner and off-site transport, Contractor must make provisions to ensure that the waste is not changed in any manner.

All empty containers produced by Contractor that had previously contained Hazardous Waste must be disposed as a Hazardous Waste unless the container meets requirements and standards of applicable Laws and Regulations for an “empty container” and is approved for alternative disposal by the Owner.

12.9 Waste Water Disposal

Contractor is to collect liquid waste produced during the demolition activities in containers suitable for transport and disposal as required in the Contract Documents (i.e. decontamination water, high pressure wash water, etc.). Contractor shall be required to acquire one or more samples of liquids from each container for characterization and disposal approval.

In the event that the waste characterization testing indicates that the water is a non-hazardous waste, the waste shall be transported and disposed of at an Owner approved facility in accordance with all applicable Laws and Regulations. No liquid wastes may be discharged on the site or through either storm or sanitary sewers. In the event that the waste characterization testing indicates that the water is either a Hazardous Waste or TSCA waste, the waste shall be transported and disposed of at an Owner approved facility in accordance with all applicable Laws and Regulations.

12.10 TSCA Waste

The Site is not expected to contain PCBs in electrical equipment, which was widely used in the electrical manufacturing industry until the mid-1970s, when they were banned from use. Prior to disposal of any oils remaining in transformers or other equipment, Contractor shall test and determine if PCBs are present, if no previous test results are available. Contractor shall obtain approval of the Owner prior to disposal of any wastes characterized as TSCA waste.

Fluorescent light fixtures are present and based on the age of the structures, PCB-containing ballasts could be present. Leaking or unlabeled ballasts should be disposed as TSCA waste.

The Site may contain other PCB-containing materials such as caulk or galbestos® siding. Any PCB impacted materials shall be removed, transported and disposed at an approved landfill

12.11 Concrete Debris Management

Clean concrete materials, including rebar, generated from demolition activities shall be transported off-site for processing, sizing, or re-use by the contractor. On-site processing, sizing, and/or crushing operations are not authorized on any portions of the project from **Zone A** through **Zone H**. Concrete crushing operations are authorized on the SJRPP site or at an off-site vendor facility. Contractor shall provide a bill of lading or manifest for each load of material transported from the Site. The bill of lading or manifest shall identify the source area from which the material was generated.

Concrete stained with coal fines shall be pressure washed prior to demolition and processing of the concrete. The resultant coal fine contact water shall be disposed as described in Section 12.7.

12.12 Heavy Metals Paint Coating Removal

Laboratory analyses of limited paint coating samples collected from structural members of conveyor support pedestals did not detect lead concentrations above EPA or HUD guidelines. However, a potential for exposure to workers involved in paint removal operations remains. The Contractor shall perform demolition activities in such a way as to ensure that workers on the project are not exposed to airborne levels above the Occupational Safety and Health Administration (OSHA) Action Levels in accordance with 29 CFR 1910 Subpart Z (Toxic and Hazardous Substances), and to ensure that any regulated metals are not spread to uncontrolled areas.

The Contractor shall have a written compliance plan describing protection measures and management procedures that will be taken to protect the Contractor's employees from exposure to lead hazards. The written compliance plan shall comply with the format as written in Chapter 9 of the HUD guidelines



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Contractor shall implement feasible engineering and work practice controls and if they have proven inadequate to meet the OSHA Action Level, the Contractor must nonetheless implement these controls and must supplement them with appropriate respiratory protection. The Contractor shall ensure that employees wear the respiratory protection provided when it is required and provide evidence of the respiratory protection plan as required in 29 CFR 1910.134 and a hazard communication plan as required in 29 CFR 1910.59.

Representative samples of the waste generated from the demolition shall be collected during the project to make the final determination of the waste classification. The laboratory shall be accredited by the American Industrial Hygiene Association (AIHA). Provide AIHA documentation along with date of accreditation/reaccreditation.

Blast media or chemicals used during removal of the existing paint coating can impact the waste characteristics and affect the waste classification. When recycling steel members coated with paint that may leach metals at hazardous concentrations, the Contractor shall obtain a letter from each recycling facility acknowledging heavy metals are present on the steel and that the recycling/scrap facility will handle the materials in accordance with all applicable federal, state, and local laws.

During removal and handling activities, the work area shall be sufficiently protected to prevent the loss of loose or falling paint chips and residue. All paint coating-related wastes shall be containerized in United States Department of Transportation (DOT) approved containers, labeled, and properly stored.



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13.0 MATERIALS RECYCLING AND REPORTING

Contractor shall develop a recycling materials management plan. The plan must include descriptions of the Contractor's methods to sort scrap by metal type and other applicable categories specified by Owner. Contractor shall identify in the recycling plan the recycling facilities planned for use on the project. Facilities may only be used subject to Owner's approval.

Contractor shall provide a copy of scale records for the recycled material, including but not limited to metal, concrete, belts, equipment, etc. delivery locations as verification of materials received by recycler. Scale records are due to the Owner's Engineer no later than 1 week after contractor's ticket receipt from the vendor.

Provide a monthly recycling report to the Owner that includes a summary log and copies of weight tickets, manifests, and bills of lading for each load shipped from the site. At project completion, prior to final payment, the Contractor shall provide a comprehensive report documenting the weight, description, and recycling location. Contractor shall include copies of all recycled materials manifests, disposal tickets, voided tickets, or logs used to track materials recycling. Although no specific diversion or recycling goal is required, the Contractor is strongly encouraged to recycle or reuse as many materials as possible.



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14.0 DISPOSAL OF UNSALVAGEABLE AND UNRECYCLABLE MATERIAL

The Contractor shall manage all waste in accordance with the Resource Conservation and Recovery Act, 40 CFR Subchapter I, and other applicable laws, regulations, and permits. The Contractor is responsible for classifying all waste prior to disposal, including any analytical testing required to adequately profile the waste.

14.1 Offsite Disposal

Waste leaving the site shall be disposed of only at permitted and Owner-approved disposal facilities that are authorized to accept that waste type. Wastes shall be transported in accordance with applicable laws, regulations, and permits to include 49 CFR, Part 171 through 179.

Dispose of environmentally regulated materials at permitted and Owner approved off site facilities. Coordinate with Owner for approval of disposal facilities.



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15.0 GRADING AND GRASSING OF THE CONVEYOR ALIGNMENT, COAL TERMINAL, AND DISTURBED AREAS ON THE SJRPP SITE

15.1 Final Grading, Backfill, and Restoration

Contractor shall grade, backfill, and restore all conveyor and coal terminal excavations, laydown areas, and work areas to match the pre-existing grades and conditions.

Contractor shall backfill all holes from foundation removal in accordance with Section 11 of this specification and contour the surfaces of adjoining areas to match adjacent elevations. In general, the site will be graded, with appropriate compaction to allow for percolation to minimize runoff from the site, limit ponding of water and create a dust-free condition. Sediment controls and stabilization practices shall be implemented with the requirements specified in the general permit and Contractor developed Construction SWPPP.

Contractor shall remove BMPs from the site upon establishment of permanent surface cover (grassing or hardscape).

Contractor shall provide all materials, water, equipment, transportation, tools, and labor, to establish grass plus all items called for or that can be reasonably inferred from the drawings, including seed and mulch, sodding, grading, fertilizing, watering, mowing, replacing and maintaining the area to complete the project. Bring all areas to be grassed to finished grades, remove rock debris and any other material protruding from the surface (to the best of equipment availability), and smooth grade the area.

Apply seed and mulch or hydroseed as recommended by the supplier to all soil areas. Do not seed and/or mulch when wind is greater than 5 MPH. Provide supplemental water when the rainfall is not adequate to maintain soil moisture necessary for germination and growth of the grass. It is Contractor's responsibility to determine the quantities of water required and when to irrigate.

Place sod on all slopes 4:1 or greater. Sod shall be Argentine Bahia with well matted roots.

Seed shall be Argentine Bahia mixed with rye grass.



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16.0 SURVEYING DATA

Contractor shall provide a professional survey recording the as-built condition of the easement, plus 20-ft outside the easement on each side at the completion of the work. The survey shall include information of structures remaining such as foundations, pipes and other facilities, locations of recycled concrete use, drainage piping, swales, ditches, berms, fences, roadways, ponds, and stormwater control structures. The survey shall also include topography of the general site at 1-ft contours.

Contractor's survey shall meet the following locations:

16.1 Professional Survey

The as-built survey shall be completed by a Florida registered professional surveyor and mapper.

16.2 Aboveground remaining in place

All footings/foundations, fences, other structures, pipes, swales and ditches that are not removed, shall be as-built to the nearest 0.1 ft.

16.3 Below grade remaining in place

All footings, foundations, slabs, pipes, conduits, duct banks below grade shall as-built to the nearest 0.1 ft.

16.4 Accuracy

To ensure spatial accuracy to the tolerance specified, measurements must be taken as accurately and precisely as possible using appropriate methodologies.

16.5 Datum:

Vertical Datum shall be referenced to NAVD 1988. Horizontal Datum shall be referenced to the State Plane Coordinate System.

16.5 Deliverables

The Contractor shall provide competently prepared as-built drawings of all remaining footings/foundations or other structures in both: Adobe and Computer Aided Drafting Files (CAD) formats.

The Contractor shall provide Owner with a copy of the Field Notes, a copy of all Raw Data, any associated electronic files to include but not limited to: GPS Raw and Format Processing Files (*.job, *.dc, and *.vce)., CAD, and accompanying CAD plotting files (.ctb and/or .stb).



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Attachment A – SJRPP Conveyor Demolition Drawing Package





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Attachment B – Reference Drawings & Documents



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Attachment C – Contractor Deliverables



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Attachment D – Sample Guidance Lift Plans



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Attachment E – Approximate Weights of Key Conveyor Sections



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Attachment F – Contractor’s Permitting Considerations



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SJRPP CONVEYOR DEMOLITION PERMITTING CONSIDERATIONS

NOTE: The below listing of potential permits is provided for Contractor's information and is not intended to be a complete listing of all permits Contractor must obtain or be aware of during the project.

Stormwater

- Notice of Intent for Construction Stormwater Pollution Prevention Plan (SWPPP) for Coverage Under the NPDES Construction General Permit
- Notice of Termination (upon project completion)

Wetlands

- Temporary wetland impacts will require approval from FDEP and USACE. Owner will obtain authorization. Contractor shall comply with permit conditions, monitoring and restoration requirements.

CSX Transportation

- Conveyor removal in proximity to the JPA Rail Line will require submittals by the Contractor and approval by JPA and CSXT.

FDOT

- Work within FDOT right-of-way on Heckscher Drive requires the Contractor to obtain a General Use Permit and submit traffic control plans for approval by FDOT.

JPA

- Traffic impacts on Blount Island require traffic control plan submittals and schedule coordination by the Contractor and approval by JAXPORT.
- Access to the SJRPP Coal Terminal via surface roads requires proper badging applications and security checks for all Contractor personnel.
- Advance notice for the channel conveyor demolition and removal of the dock conveyor and ship unloader.

USMC Blount Island Command

- Traffic impacts to the USMC BIC entrances require traffic plan submittals and schedule coordination by the Contractor with the USMC BIC Facility Manager and JAXPORT.

Hazardous Waste Storage, Transport & Disposal

- Hazardous waste generation and storage requires a hazardous waste ID number from FDEP and compliance with 40 CFR Parts 260 through 370.

Notice of Demolition/ACM Abatement

- FDEP NESHAP Notification of Asbestos Abatement





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Attachment G – Environmental Survey Reports & Wildlife Guidelines

- G1 Golder – NESHAP Asbestos Survey – August 2017 (Report# 1780527-R01)
- G2 APTIM – ACM Supplemental Sampling (631229337-EN-RP-0001-0) 28 September 2017
- G3 APTIM – EER 3 ACM Supplemental Sampling (631229337-EN-RP-0001-0) January 2020
- G4 Standard Manatee Conditions for In-Water Work



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Attachment G1

Golder – NESHAP Asbestos Survey – August 2017 (Report# 1780527-R01)





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Attachment G2

APTIM – ACM Supplemental Sampling (631229337-EN-RP-0001-0) 28 September 2017





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Attachment G3

APTIM – EER 3 ACM Supplemental Sampling (631229337-EN-RP-0001-0) January 2020





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Attachment G4

Standard Manatee Conditions for In-Water Work





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Attachment H – Owners Spill Reporting Procedures



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Attachment I – St Johns River Channel Bathymetry Survey Information





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Attachment J – Owner Approved Disposal Vendors

