PART I - THE SCHEDULE

SECTION C – STATEMENT OF WORK

X-333 Demolition Water Detention and Conveyance System

Rev.3

Dated 2/13/2024

REV	Revision Description	Date

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1.0 DESCRIPTION OF WORK – GENERAL

Except as otherwise expressly provided herein, Contractor shall supply all adequate and competent labor, supervision, tools, equipment, installed and consumable materials, services, testing devices, warehousing and each and every item of expense necessary for the supply, fabrication, field erection, application, handling, hauling, unloading and receiving, installation, construction, demolition, assembly, evaluation, and quality assurance for the site work and utilities of the X-333 Demolition Water Detention and Conveyance System hereinafter called the Work.

1.1 Scope of Work Summary

The objective of this Work is to construct the X-333 Demolition Water Detention and Conveyance System in accordance with the applicable drawings and specifications. The Work will be performed under a fixed price contract that shall include: pre-mobilization including submittals and training; mobilization; site preparation activities; site grading and construction of containment berm; construction and lining of a containment area around the X-333; installation of tunnel bulkheads; sealing of the track alley concrete slab expansion joints and grates; fastening of the liner to the X-333 Facility building foundation wall and outer track alley wall; placement of a liner protection aggregate layer; construction of the wastewater collection sumps and pumps inside the X-333 containment area; installation of the wastewater conveyance lines to convey wastewater from the X-333 demolition sumps; construction of the effluent conveyance line; storm water management to convey demolition runoff within the work area to the detention area(s); erosion and sedimentation controls; storm water management to divert storm water run-on and work area runoff outside of the work area away from the demolition site; stock piling of graded soil, if necessary; and, site stabilization and seeding.

Above grade structure, conduit sealing removal, and below grade utilities isolations/removals to be performed by Company except for those shown in the design package that must be completed during berm construction. Work performed by Company shall be performed prior to the installation of the containment area, lining system and berm. Modification of Catch Basins and later sealing of modified catch basins to be performed by contractor.

2.0 SPECIFICATIONS, DRAWINGS, ATTACHMENTS, AND EXHIBITS

All Work shall be performed in strict accordance with the following specifications, drawings, and other documents. Contractor shall notify the Company in writing of any conflict between these specifications and Federal or State guidelines.

2.1 Specifications – Refer to Construction Notes and Specifications in drawings.

2.2 Drawings

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X-230A-38-M	SANITARY FIRE WATER SYSTEM UNIT II SECONDARY MAIN "G" STA 0+00 TO STA 8+50
X-230A-62-M	SANITARY FIRE WATER SYSTEM UNIT II SECONDARY MAIN "P" STA 0+00 TO STA 8+10
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Utilize current revision of drawings as contractually provided by the Company.

2.3 Attachments

For attachments refer to Section J.

2.4 Exhibits

Exhibit No.	Title
Exhibit 1	Milestone Schedule
Exhibit 2	Acronyms
Exhibit 3	Construction Sign
Exhibit 4	Counterfeit Parts

3.0 DESCRIPTION OF WORK – SPECIFIC

The Work for the *X-333 Demolition Water Detention and Conveyance System* described in Articles 1.0 and 2.0 of this Statement of Work shall include, but not be limited to, the following:

- Contractors is responsible for all CQC, third party inspections, lab testing, field testing regardless of denotations on drawings, specifications, and contract documents. All pertinent information derived from this activity shall be submitted to Company.

- Storm water management to convey demolition runoff within the work area to the detention area(s). Including all erosion and sediment controls. (installation, maintenance, final removal, and restoration). Includes all temporary inlet protections, temporary sediment traps, temporary stabilized construction entrance, temporary silt fence. Contractor is responsible for dust control and clean-up of roadways around work area.

- Construct entire containment area and remove any obstructions (other than utilities addressed by Company) found in excavation. Testing of pipe structural capacity to be performed by Company for pipes located/isolated by Company. Contractor

responsible for Testing Pipe Structural Capacity Contractor encountered pipes during rough grading.

- Protection of the Roof Drains/Lines. Drain lines to be modified/repaired as/if required.

- Modification of Catch Basins and later Sealing of Modified Catch Basins. Contractor shall verify catch basins are in operational order prior to beginning work.

- All X-333 Storm Structure work as specified to be performed During Berm Construction. Refer to X-333 Above Grade Utility Isolation and Demolition Drawing Package for additional details and locations of the storm structures listed on drawings X-333-C-34921 and X-333-C-34922.

- Sealing of electrical manholes to be performed by Company

- All site grading. Rough, Temporary, Interim, and Final grading all the responsibility of the contractor. Site should grade to drain throughout the duration of the project. To achieve this contractor may have to stockpile graded soil for later use.

- Sealing of the track alley grates and expansion joints.

- Construction of containment berm.

- Construction of all Berm Equipment Crossings. For fill under equipment crossings, structures, and roadways; If contractor elects to use of company supplied soils for structural fill it is the responsibility of the contractor to perform required laboratory testing to ensure fill is suitable for use. Company does not guarantee fill will be acceptable for use.

- Installation of complete liner system. Including but not limited to (LLDPE, cushion geotextile, battens, gaskets, anchors, penetrations, footing protection, etc.….)

- Installation of all underdrain headers and laterals

- Placement of all stone cover

- Contractor construct truck wash pads including penetration and piping through the liner system. Company will provide truck wash and trough system; contractor is responsible for installation.

- Construction of the wastewater collection sumps and pumps inside the X-333 containment area. Including all items necessary to complete installation per drawings and specification. (Including but not limited to associated electrical, piping, pipe supports, valves, sensors, pre-cast, heat trace, insulation, floats, grates, etc.…). Company to provide submersible pumps and sump pump control panels (X-333-1 through 4) only. Contractor responsible for proper installation of company provided items including supports for sump pump control panels. Power feed for control panels is located at poles across the street from the control panels

3 and 4. Contractor will be responsible for installing overhead feeds from the poles to the panels for control panels 3 and 4. Feeds for control panels 1 and 2 should be run underground in conduit and duct bank. Feeds will be located on the same side of the road as the control panels for panels 1 and 2.

- Installation of all conveyance pipe. Conveyance pipe to installed around the X-333 and tied into the existing X-326 conveyance line as detailed on the drawings. Includes all associated piping, fittings, vaults, valves, and leak detection. (4) four additional valve vaults/valves not shown on drawings (Detail 35 on X-333-C-34533) shall be installed on typical tie-ins for future locations (Details 33 and 34 on X-333-C-34533). Valve vaults and valves shall be installed in-lieu of the caps shown on the current drawings. Blinds shall be installed on the future side of the valves. Valves to remain closed. Locations to be documented. (Note: assume X-326 conveyance line does not have an existing “T”. Contractor will be responsible for installing “T” in existing double wall pipe. This will require digging into the existing X-326 berm. After tie-in is complete contractor will be responsible for re-establishing X-326 berm and making any repairs to existing containment system caused by the tie-in. X-326 line tie-in will be performed under radiological controls.

- Installation of electrical conduit and spare electrical conduit including handholes

- Installation of all fiber and communications. Where fiber will terminate into existing company equipment contractor shall install ends on fiber, company will terminate fiber in those locations.

- Installation of tunnel bulkheads. Four (4) total bulkheads to be installed; Two (2) bulkheads the area control room basement, one (1) bulkhead in the North Tunnell, and one (1) bulkhead in the south Tunnell. Other scopes in drawing package to be performed by others. Dewatering of tunnels, if required, to be performed by Company. *** Tunnell Bulkheads shall be performed in the final sequence of work. Company cannot accommodate early performance of this scope.

- Sealing of the sanitary sewer manholes is noted on the utility isolation drawings to be performed by Berm contractor. Sanitary sewer sealing and isolation to be performed by Company.

- Site restoration per design and specifications

3.1.1 X-333 Demolition Water Detention and Conveyance System Facility Descriptions

The work area involved in the X-333 Water Detention System is around X-333 building. The X-333 Process Building was used for the initial phase of the uranium enrichment process at the Portsmouth Gaseous Diffusion Plant (PORTS). Enriched uranium from X-333 was further processed in the cascade in X-330 and X-326. Uranium was enriched at PORTS from 1954 until May 2001.

3.2 Specific Scope of Work

3.2.1 Contractor may mobilize to the Demolition Zone once they have received an “A” or “B” status on all required pre-mobilization submittals and Authorization to Mobilization has been given.

3.2.2 Contractor shall coordinate all mobilization activities with the Contract Technical Representative (CTR).

3.2.3 Contractor shall perform dust control throughout the project as necessary per the Environmental Protection section of this Statement of Work.

3.2.4 Contractor shall install erosion and sediment control measures per the Environmental Protection section of this Statement of Work. Contractor shall maintain erosion and sediment control measures throughout the duration of the project.

3.2.5 Contractor shall coordinate with the CTR to establish the field office location, break area, smoke area, restroom facilities, lay down area, staging area, and other temporary facilities.

3.2.6 Contractor shall provide and install safeguards including but not limited to safety / warning signs, such as the required personal protective equipment (PPE).

3.2.7 Contractor shall install the Company’s project communication sign at a location directed by the CTR. See Exhibit 3.

3.2.8 Contractor shall erect barricades and barriers around defined features of each area to prevent equipment from disturbing and/or damaging items not considered part of the Work.

3.2.9 Prior to the start of Work, the Company will coordinate a walk through with the Contractor to conduct a field survey of the Work area.

3.2.10 Demolition (as required)

A. Demolition shall be performed in such a manner as to eliminate hazards to persons and property; to minimize interference with use of adjacent areas, utilities and structures or interruption of use of such utilities; and to provide free passage to and from such adjacent areas of structures.

B. The Contractor shall schedule a walk through with the Company prior to beginning demolition. The Contractor shall give the Company a minimum notice of three business days for this walk through. Demolition shall not commence until the walk through has been performed and the facility has been deemed ready for demolition by the Company.

3.2.11 The Company shall provide roll-off box containers as needed for waste generated by the Contractor Refer to the Waste Management section of this Statement of Work.

3.3 Surface Decontamination of Equipment

3.3.1 The Contractor shall provide qualified labor, material, and appropriate means and methods for the decontamination of equipment, in the unlikely event that such contamination is encountered. The Contractor shall perform decontamination activities of equipment within five (5) work days. If decontamination of equipment is unsuccessful and the Company and Contractor determine that further decontamination efforts are not expected to achieve acceptable decontamination levels, the Company agrees to take receipt of the contaminated equipment and reimburse the damaged party at the current fair market value, as determined by a qualified third-party evaluator or using the Corp of Engineers Green Book value. **NOTE: ALLOW 30 calendar days for processing of radiological release forms (UE5) for all equipment.**

3.4 Contractor Work Plan:

The Contractor shall submit a Detailed Work Plan for each task to be performed, this can be one work plan with sections on each task or a series of work plans. The Contractor shall follow the format specified in Attachment J-25.

The Contractor's Detailed Work Plan(s) will be reviewed by the FBP High Hazard Work Review Board as part of the submittal review process. The Contractor should be prepared to address their approach to safety management for high hazard work. Required attendees include the Contractor's HSE representative and field supervisor who will be required to be familiar with the contents of the work plan and present the Contractor's approach managing high hazard work. Contractor shall allow up to eight (8) hours for presentation and review by the High Hazard Work Review Board (excluding planning). High hazard work activities include:

- Electrical work –
  - Requiring an energized electrical work permit (EEWP) over 50 volts and/or electrical work requiring a permitted lockout/tagout 480 V or higher.
- Permit required excavation and penetrations.
- Elevated work – over 6 feet from the adjacent work surface that requires Personal Fall Arrest System (PFAS)
- Critical lifts requiring development of a lift plan.
- Potential exposure to a high pressure (i.e., a system subject to an internal or external fluid pressure above 3,000 psig)
- Uncertainty with contents, materials, or hazards
- A credible failure of a control that could result in an explosion or fire regardless of the initiating event.
- Radiological and chemical (Radiation work requiring an ALARA review and chemical for high concentration acids, caustics (>10% concentration)

Exemptions

- Ingress and egress from vehicles, mobile equipment or construction equipment using installed equipment features.
- Use of a scissor lift
- Use of a JLG or similar aerial lifts
- Use of a bucket truck
- Crane preventative maintenance or corrective maintenance that will use only engineered tie-off locations.
- Any work that can utilize permanent/manufactured engineered tie-off points and has a current engineering evaluation for adequacy of the tie-off location.

The Contractor's detailed Work Plan shall include, but not limited to, the following:

- Planned sequence of the work activities
- Methods to be used to perform the work activities.
- Methods to be used to perform the work activities safely (safety measures)
- Methods to be used to prevent the potential spread of any potential contamination.
- Methods to be used to control fugitive emissions during the work activities.
- Waste management and size reduction methods
- Means/methods to be used to protect adjacent structures, equipment, materials, and underground / aboveground utilities from damage.
- Shall include reference to work that will be performed with-in the X-333 Immediate Evacuation Zone

3.5 Pay Item Descriptions

The Pay Item Descriptions as defined in Section B.2 show activities for which the Contractor shall report progress and use for invoicing.

3.5.1 Contractor shall submit a value for each pay item (refer to Section B – Supplies or Services and Prices/Costs for Pay Item Schedule of Values). The value shall correspond to the descriptions of the activities including profit, overhead, insurance, training and submittal documents not specifically listed as a pay item shall be allocated to each pay item proportional to its value. The Company will review each pay item value to ensure that the value is consistent with the work to be performed. Pay item values determined by the Company to be unacceptable shall be revised and resubmitted by the Contractor. Payments shall not be made to the Contractor until the Company approves the pay item values.

4.0 MATERIAL, EQUIPMENT, OR SERVICES FURNISHED BY COMPANY

The Company will furnish or cause to be furnished to Contractor, without cost to Contractor, the following items for or in connection with performance of the Work:

4.1 Services:

4.1.1 Survey Monuments and Survey Control monuments and/or benchmarks for laying out the Work are established on-site.

4.2 Materials and Equipment

4.2.1 Government Furnished Equipment (Contractor installed) – System component supplied by the Company, to be installed by the Contractor, include:

A. (8) Submersible pumps

B. Sump Pump Control Panels

C. Conveyance Line HDPE Valve Boxes

D. Fiber Handholes

E. Truck Wash Structure

4.2.2 Contractor shall provide each and every item not listed above necessary to complete the Work per design.

4.3 Notwithstanding the Article entitled the "Permits, Applications and Licenses" in Section H Special Contract Requirements, Company will furnish the permits listed in Article 5.

4.4 Inspection of the Work required by governmental agencies shall be arranged by Company. Contractor shall request such inspection through Company only after the Work is ready for inspection.

4.5 The Company will perform isolation of the fire protection system and the fire alarm system prior to the Contractor beginning demolition.

4.6 The Company will provide Plant radios as required.

4.7 The Company will provide required respirators.

4.7.1 The Contractor is responsible for submitting respirator requests. Respirator requests must be made on a Company provided Respirator Request Form and each request shall be delivered to the CTR before 8:00 a.m., Mondays and Wednesdays. Monday requests shall be for respirators required for each worker for Tuesday, Wednesday, and Thursday. Wednesday requests shall be for respirators required for each worker for Friday, Saturday, Sunday, and Monday. Additions and or revisions to the requests shall be made, as needed, by 8:00 a.m. at least the day prior to the need. Respirator usage and return requirements are specified in Attachment J-13.

5.0 TEMPORARY FACILITIES AND UTILITIES

5.1 Furnished by Company

Company will supply or cause to be supplied the following temporary facilities and utilities to Contractor, without cost to Contractor, for or in connection with performance of the Work:

5.1.1 Parking areas for the Contractor's Work vehicles will be limited to a location near the Work area. Parking along plant site roads and streets shall not be permitted. Unless otherwise directed by the CTR, parking for the Contractor and subcontractor employees shall be limited to the parking lot outside the security fence parking facilities.

5.1.2 The Company will not provide potable water. Contractor shall coordinate with CTR to obtain source of water necessary for project needs.

5.1.3 Limited roughly graded space adjacent to the construction site for temporary facilities and storage of material and equipment. (No storage facilities or protective coverings of any kind will be furnished by Company.)

5.1.4 Site perimeter security fencing and access gates.

5.1.5 The Company will provide roll-off box type containers for debris as outlined in the Waste Management section of this Statement of Work.

5.2 Furnished by Contractor

Except as expressly set forth in Article 5.1 of this Statement of Work, the supply, installation, provision, maintenance, repair, and final removal of all temporary facilities and utilities, necessary for full and complete performance of the Work, is the sole responsibility of the Contractor.

Such items shall include, but not necessarily be limited to those listed below. Contractor has the sole responsibility to identify and provide all required temporary facilities and utilities to perform the Work. The type of facilities, move-in and move-out dates, and locations on the work Site shall be subject to and in accordance with the review and approval of CTR.

5.2.1 Temporary Facilities and Lay-down Area

A. Contractor trailers must be secured or anchored to prevent movement or turnover from high winds. Trailer anchoring shall meet OBBC & DOE-STD-1088-95. Preferred Anchor system is a Minuteman LLBS system with drive pins as determined in length per project condition. Contractor may choose to anchor the trailer by using 10-foot-long Jersey Barriers with ½" galvanized wire rope tie downs in accordance with the spacing table 1 in 24 CFR 3285.402. Trailer manufacturer shall provide anchor calculations to ensure overturning, lateral movement is in compliance with anchor system specified or for any alternative anchor systems. Electrical connections must be made by a qualified electrician. The Company reserves the right to inspect and approve the Contractor's office installation.

B. Maintenance of Contractor's lay down, storage and work areas and roads within such areas.

C. Upon demobilization, the land previously occupied by Contractor's Temporary Facilities and Lay-down area shall be returned to its pre-construction condition or better. This requirement shall also apply to all Temporary Roads, Parking, Lay-down areas, and Temporary Utilities. ODOT #57 gravel shall be used as fill where needed.

D. Smoking Areas:

- Contractor personnel will only be permitted to smoke at designated smoking areas as directed by the CTR.
- Meeting the requirements for establishing and maintaining the smoking area shall be the sole responsibility of the Contractor.
- No smoking shall be allowed outside of the designated smoking area.
- The Contractor shall provide an appropriate fire extinguisher.
- Smoking area shall be designated with a non-flammable barricade.
- Containers for extinguishing and disposal of cigarette butts shall be utilized.
- Contractor shall provide and maintain safe walking access to the smoking area.

- Contractor shall provide a waste disposal container for debris other than cigarette butts.
- Contractor shall follow good housekeeping practices.

5.2.2 Eating Facilities

It is the Contractor's sole responsibility to provide break and lunch areas for their employees, vendors and subcontractors.

5.2.3 Sanitary and Change Facilities

The Contractor shall supply Sanitary and Change Facilities required for the project. Contractor shall coordinate with the CTR for the location of Sanitary and Change Facilities.

5.2.4 Storage Compounds

Adequate weather-tight storage for storage of materials, tools, and equipment which are subject to damage by weather. The location of storage compounds must be agreed with CTR before storage of materials commences. Such compounds shall be maintained for the storage of the approved materials and for no other purpose.

5.2.5 Construction Power/ Temporary Facility Area Power

Contractor shall provide temporary power (generator) to provide electric for temporary facilities (excluding Contractor's Project Trailer), temporary lighting, tools, and equipment to perform the work. Electrical connections to Contractor trailers, temporary facilities or other electrical systems or equipment must be completed in accordance with the requirements of Attachment J-13. Contractor shall not be permitted to occupy trailers or temporary facilities prior to inspection and approval by the Company. Contractor shall provide temporary lighting or task lighting, in addition to temporary lights provided by the Company, as required to perform the Work. The Contractor shall be responsible to provide power for the temporary lights furnished by the Company. The Contractor shall be responsible to remove the temporary lights furnished by the Company and return those lights to the Company prior to demolition.

A. Includes connections to and disconnections from Company provided construction power supply, transforming to lower voltage and distribution. Contractor shall request a Lockout/Tagout and Service Interruption Permit five (5) days prior to performing activity.

B. Onsite generation of power is allowed providing that such power is obtained through the use of properly installed, acoustically insulated diesel electric generating units as approved by the CTR.

C. Contractor's distribution system, lighting systems and wiring shall be installed in accordance with the National Fire Protection Association (NFPA) and the National Electric Code (NEC) and maintained in a satisfactory condition.

D. No weight shall be imposed upon any electric cable and no staging, ladder or similar equipment shall rest against or be attached to it. Temporary power cables in use by Contractor must be positioned so that they do not cause a tripping hazard. (Run 8-ft overhead or laid neatly out of walkways.)

E. Contractor shall be responsible for maintaining and removing any equipment or devices installed.

F. Before the Contractor plugs in any electrical appliance to any plug socket belonging to the Company it shall ensure that the appliance is in good condition and is fitted with a suitable cable, including fully rated and insulated neutral conductor and protective ground conductor.

5.2.6 Temporary Buildings

Contractor shall provide, operate, maintain, and dispose of all temporary buildings in accordance with the requirements of the Contract.

5.2.7 Fuels and Lubricants

A. Oils, greases, and similar materials must be stored in nonflammable bins or buildings or in a fenced compound remote from other combustible materials in accordance with NFPA and as approved by CTR.

B. "No smoking": signs shall be provided by Contractor and prominently displayed in areas where flammable materials are stored. Additionally, Contractor shall provide and maintain suitable fire extinguisher in such areas.

C. Contractor shall provide all fuel for heating and ventilation for their Temporary Facilities.

D. Fossil Fueled Vehicle Limitations in Buildings: This limitation is applicable to, but not limited to, automobiles, trucks, tractors, forklifts, high-lifts, other cylinder handling equipment, and personnel carriers. Fossil fuels include, but are not limited to gasoline, diesel, or ethanol. The size of a fuel tank on each individual fossil fueled vehicle is limited to 50 gallons of fossil fuel. The use of propane for vehicle fuel is prohibited.

E. Stationary fuel powered equipment (e.g. generators, pumps, light plants, etc.) with a fuel holding capacity equal to or greater than 55 gallons of fuel must be equipped with a double walled fuel tank. If a double wall fuel tank is not available, then the stationary fuel powered equipment must be placed in an acceptable secondary containment device as approved by HSE and the CTR. If an existing secondary containment area is not available, then it is the Contractor's sole responsibility to provide an acceptable secondary containment device. The secondary containment device must be sized to hold the equivalent of the largest tank volume within that containment.

F. For equipment requiring secondary containment that will be stored outdoors, the containment area must provide for accumulated precipitation, and as such, be sized to 120% of the largest tank volume within that containment. The secondary containment's material(s) of construction shall be impervious to and compatible with, the liquid to be contained. Any spills within the dike or outside the dike shall be reported immediately to the CTR. Provisions shall be made for draining off accumulations of water.

G. The Contractor shall ensure that any drain valves remain closed except when draining. The stationary fuel powered equipment and all secondary containment areas must be inspected and maintained daily. The Contractor shall ensure documentation of these inspections is recorded daily, and that the inspection log is available for the Company for inspection upon request. Temporary Electric Generators greater than 25kW will require grounding per OSHA 29 CFR 1926 (F)(3)(i).

5.2.8 Communication

Contractor shall provide and operate all means of communication required for performance of the Work, including but not limited to telephones, facsimiles, and radios. Wireless communication systems shall be approved by the CTR prior to bringing the system on-site. Cameras are not permitted on site.

5.2.9 Temporary Roads and Parking

A. Contractor shall be responsible for providing and maintaining all roads and parking areas deemed necessary by Contractor for access, and parking in Temporary Facilities areas, construction areas, and between areas. Contractor provided roads and parking areas shall be constructed to provide for adequate safe movement of light and heavy vehicles, and equipment. Contractor's temporary roads shall be constructed in a manner to prevent damage to permanent roads, facilities, and underground utilities and structures.

B. Contractor shall maintain its temporary roads and parking areas regularly including prevention of fugitive dust emissions.

C. Contractor shall remove and restore areas occupied by temporary roads and parking areas upon completion of the Work.

D. Contractor shall comply with load restrictions in all buildings and all roads and bridges.

E. Maintenance of Traffic: The Contractor shall provide flagmen, safety cones, barricades, signage, etc., as necessary to maintain safe traffic flow on plant streets. Street closure or reduction from two-lane traffic to one-lane traffic shall be minimized. Contractor can use their employees for flagman to control traffic within areas under Contractor control. Contractor shall coordinate traffic control with the CTR if traffic control is required outside of project boundaries. Signage shall be based on international signage standards and conventions.

F. The Contractor shall, furnish, erect, and maintain during the progress of construction, substantial barricade, bridging, ramps, sidewalks, cones, barrels, guard rails, and signage; furnish, place, and maintain adequate lights and warning signals, provide flagmen and watchmen.

G. No Plant streets or roadways shall be barricaded without coordination with the CTR. Requests for street closures shall be submitted to the CTR for approval at least three (3) days in advance.

H. Contractor area barriers shall have a designated entrance location(s); each location shall have a sign identifying the project name, contract number, Contractor, Contractor contact and phone number and CTR contact and phone number to notify for entry.

I. Barricades, temporary bridging, and other temporary construction installed by the Contractor shall be removed by the Contractor upon completion of work requiring such safeguards.

5.2.10 Equipment Inspections

Contractor vehicles, equipment, materials, trailers, tool boxes and tools shall be subject to inspection as described in Attachment J-13.

5.2.11 Material Handling and Rigging

A. Construction activities, material deliveries, and off-loading operations shall be conducted to minimize interruptions to the Company's normal operations. Blockage of Company gates or other access to the work area shall not be permitted without prior coordination and approval of the CTR.

B. Contractor shall provide and operate cranes and other necessary equipment for handling, hauling, unloading, and receiving Contractor-supplied materials, tools, and equipment.

C. Contractor shall maintain equipment keys in locked containment when equipment is not in use.

5.2.12 Weather Protection of the work and any methods required to allow continuation of the work during periods of inclement weather.

5.2.13 Small tools

A. The Contractor shall perform a daily inspection of all equipment, vehicles, tools, safety devices, electrical cords, equipment guarding, fire extinguishers, etc. to assure the safe working condition and OSHA compliance of all tools and equipment. Documentation must be compiled by date and list all the tools/equipment inspected for that date; daily inspection of tools/equipment shall be noted on the Contractor Daily Report.

B. Documentation of inspections must be made available for the Company’s review. Equipment that does not meet the manufacturer’s requirements for safe use shall be taken out of service. Prior to reinstating tools and equipment previously taken out of service, the tools and equipment must be inspected by the competent person.

5.2.14 Electric Power Tools and Equipment

A. All electric power tools and equipment shall be protected with a Ground Fault Circuit Interceptor (GFCI). The GFCI must be plugged in at the power source and shall be inspected and tested daily or prior to use.

B. Power tool cords and extension cords must be kept in good condition and out of the way of traffic. Electrical cords shall be routed safely to prevent a tripping hazard and damage to the cord. Faulty or damaged cords must be properly disposed of or

removed from site. Faulty or damaged cords on electrical hand tools must be repaired by a qualified electrician or removed from site.

5.2.15 Supplemental lighting, provided by the Contractor, shall provide adequate lighting and comply, at a minimum, with OSHA lighting and illumination requirements.

5.2.16 Permits

A. Job Site Work Permits: All permits required for performance of the Work at the jobsite will be arranged by the Company. The Company will provide the following permits as required: Contractor shall request the permit a minimum of three (3) working days in advance of the permit need.

(1) Excavation
(2) Penetration
(3) Welding / Hot Work
(4) Lock Out Tag Out (LOTO)
(5) Radiological Work Permit (RWP)
(6) Confined Space Work Permit

The Contractor shall request required permits a minimum of three (3) working days in advance of the permit need.

5.2.17 Temporary fencing to secure work areas, temporary facilities areas, materials, and equipment storage areas.

5.2.18 Contractor shall provide project signs for traffic control, and direction, and for identifying project areas.

5.2.19 Transportation facilities on and off-site. Only Contractor's company vehicles, as approved by CTR, will be allowed on-site.

5.3 Environmental Protection

5.3.1 Vehicles, equipment, or liquid storage containers shall not be stored in areas where spillage or leakage of materials would enter the plant's drainage system. The Contractor shall immediately notify the CTR of any spills, regardless of the quantity, type, or location. Spill response and cleanup will be performed under the direction of the Company. Cost associated with spills resulting from negligence by the Contractor shall be the sole responsibility of the Contractor.

5.3.2 The Contractor shall provide all erosion and containment control measures including plans for such measures. Erosion and containment control measures and plans are subject to approval by the Company’s Environmental, Safety and Health and Quality (ESH&Q).

5.3.3 The Contractor shall provide filter/erosion control for storm drains impacted by ground disturbing activities to prevent sediments from entering storm drains during the Work activities.

5.3.4 The Contractor shall comply with the Company's Storm Water Pollution Prevention Controls (SWPPC) and/or any other regulatory permit or plan having effect.

5.3.5 All products or hazardous materials brought on-site by the Contractor shall be maintained under the control of the Contractor. No excess products or hazardous materials are to remain onsite after the project is complete. Contractor shall submit Material Safety Data Sheets (MSDS) for review and approval prior to bringing such items on-site in accordance with Attachment J-13.

5.3.6 The Contractor will be permitted to wash equipment at PORTS if it can be done in accordance with applicable Federal and State regulations and as approved by the Company. Disposal of accumulated debris from washing activities shall be governed by the Waste Management section of this document.

5.3.7 Environmental Emissions Consideration:

A. All fuel-burning equipment such as but not limited to cranes, bulldozers, earthmovers, welders, generators, compressors, pumps, and light plants must meet regulatory permit requirements. Unless a piece of equipment is specifically exempted under the regulations, it must have an air permit. Off-road diesel-powered vehicles and equipment (both mobile and stationary), with engine horsepower (hp) ratings of 50 hp or more shall be Tier 2 compliant. Any regulatory exemptions must be reviewed by the Company prior to equipment use. The Contractor shall provide documentation of compliance with applicable regulatory permits and standards to the CTR prior to delivery of equipment to PORTS.

B. Fuel Requirements: To the extent practicable, construction equipment with engine hp ratings of 50 hp or more shall utilize Ultra-Low Sulfur Diesel (ULSD) fuel.

C. Permit Exemption: The Contractor shall maintain logs for any piece of equipment exempted from permitting based on hours of operation (e.g.: emergency generators, emergency compressors, and emergency pumps) to document fuel use and to verify that the equipment was not operated in excess of 500 hours annually. The Contractor shall provide to the Company prior to delivery of equipment to PORTS documentation of equipment operating logs for any regulatory exempt piece of equipment.

5.3.8 Fugitive Dust Emissions:

A. The Contractor shall minimize emissions of fugitive dust by methods such as spraying or misting, watering, covering beds of trucks hauling materials likely to become airborne, paving or gravel roadways, lay down areas, parking areas, and removing mud, dirt, etc. from roadways. Demolition activities will be performed at a time that weather conditions allow for the use of water for dust suppression. The water will be allowed to flow to the ground. Contractor shall control the sedimentation by minimizing the volume of water used for dust suppression.

B. Air monitoring and sampling shall be performed by the Contractor. The Company may perform air monitoring to confirm the effectiveness of the Contractor dust suppression.

5.4 Excavation/Penetration

5.4.1 A Penetration Permit is required when breaching or penetrating any building surface more than 1-½" (unless excluded), any blacktop or concrete pavement surface more than three (3) inches, or the earth's surface more than twelve (12) inches by any means other than those considered excavation or trenching. These methods include, but are not limited to, auguring, drilling, driving, and coring, or penetrating. Penetrations include drilling wells and boring for soil samples up to and including 12 inches in diameter.

5.4.2 The Company has performed a subsurface investigation to aid the Contractor in locating existing buried/ hidden utilities or other underground structures or interferences that could impact the Work. Prior to excavation, soil penetration, or other soil/surface disturbing activities the Contractor shall review the Company's subsurface investigation to verify the location of buried/ hidden utilities or other underground structures or interferences that could impact the Work. Contractor shall obtain a Penetration Permit following review of the subsurface investigation and prior to digging.

If during the execution of the Work, the Contractor encounters buried/ hidden utilities or other underground structures or interferences not identified previously, the Contractor shall stop work and immediately advise the Company and confirm findings in writing. Company will evaluate findings and direct Contractor to resume work following investigation. The Contractor shall record location, including elevations of buried/ hidden utilities or other underground structures or interferences.

5.4.3 Excavations that will potentially exceed a depth of ten (10) feet below the existing grade require written approval from the Company in addition to a Penetration Permit.

5.4.4 All excavations require FBP Health Physics to survey spoils during the excavation process.

5.5 Existing Utilities/Service Interruption

5.5.1 Where Work involves breaking into or connecting to existing services or utilities, carry out work at times as directed by the Company.

6.0 PERFORMANCE SCHEDULE AND SEQUENCE OF WORK

6.1 Specific Milestones, interfaces, and other schedule related bases of this Contract are as set forth in Exhibit 1.

6.2 General scheduling, reporting and coordination requirements shall be described in Section H, Special Contract Requirements.

6.2.1 Contractor shall submit the detailed schedule required by Section H Special Contract Requirements in accordance with Attachments J-6 and J-8.

6.2.2 Specific scheduling and coordination requirements may include but not necessarily be limited to the following:

A. Engineering deliverables by discipline
B. Mobilization time for manpower and equipment
C. Material deliveries to jobsite

D. Shop fabrication
E. Incremental completion dates of major components
F. Start and completion of different segments of work (early and late starts)
G. Any qualifying conditions of Company or Client
H. Other as necessary

6.3 Contractor Project Schedule shall be a resource loaded Critical Path Method (CPM) Schedule that clearly identifies both, all logical relationships/dependencies between activities related to the project, and the project's projected critical path schedule from Notice to Proceed through project completion. This resource loaded Critical Path Method (CPM) Schedule shall have the following two levels:

A. The first level, the Pay Item level (Pay Item Layout)
B. The second level, the Activity Level (Detailed Layout)
C. Activities will roll up to support the Pay Items

6.4 The initial Contractor Project Schedule, once approved by the Company will be known as the Contractor Baseline Schedule (may include approved modifications). This Schedule will be used for comparison with subsequent project schedules. The project schedule shall meet the following requirements:

A. Monthly Project Schedule Update which shall include the following:

- Actual or projected start and finish dates
- Activity progress and remaining duration
- Bar chart schedule comparing the current schedule to the baseline schedule.
- Revisions to craft resources
- Specific to estimated schedules in man hours.
- Percent complete for each activity (summarized/listed in the Pay Item section of the Contractor Project Schedule and shall be the basis for the amount invoiced for that Pay Item).
- A copy of the updated Contractor Project Schedule shall be submitted to the Company by the date established in the contract.

B. Initial Contractor Project Schedule shall anticipate the critical path work sequence as follows:

- X-333 South
- X-333 West
- X-333 East
- X-333 North

6.5 Contractor shall submit a Four-Week Rolling Schedule (refer to Attachment J-30) which documents/lists four weeks of the Project Detailed Layout, which shall include the following:

- A schedule of the previous week, the present week, and the two future weeks
  NOTE: The activity may be a pay item when it is of sufficient detail to meet the definition of the activity.
- Activities grouped by Pay Item activities and sorted by Early Start Dates
- Activities schedule coded with corresponding Pay Item ID code
- Expected/Projected Man-hours by craft (carpenters, laborers, operators, etc.) for each activity.
- Pay Item values breakdown of activities.

The Four-Week Rolling Schedule shall be presented to the Company at the Weekly Progress Meeting.

6.6 Contractor Scheduling Software

6.6.1 The Contractor shall be required to use the following software, which is compatible with the Company Scheduling Software (Primavera P6) to prepare the required project schedules:

A. Primavera P6
B. Primavera Subcontractor
C. Microsoft Project

6.7 An electronic file containing the updated project schedule shall be submitted along with the hard copy of the updated schedule.

6.8 Work Hours, Deliveries and Overtime

6.8.1 Normal site work hours will be four days per week, 10 hours per day, (Monday through Thursday) between the hours of 7:00 a.m. and 5:30 p.m. Contractor shall be prepared to work the hours required by the Contract.

6.8.2 Material and equipment deliveries shall be permitted Monday through Thursday, e.g. 7:00 AM-5:30 PM Eastern Time. Deliveries outside of these times must be coordinated with the CTR at least two (2) working days in advance.

6.8.3 Requests for scheduled overtime, weekend, or holiday work during normal situations shall be made to the CTR at least two working days before the start of these shifts.

6.8.4 Requests for non-scheduled extended work hours in emergency situations shall be made to the CTR at least three hours in advance for overtime during the normal work week and at least by noon of the last regular workday.

6.8.5 For work being performed outside the normal work schedule the Contractor shall coordinate with the CTR for any special arrangements for security, safety, escorting, health physics, and other the Company provided resources. Plant entry and exit requirements may change when working outside of the normal work schedule. It is the Contractor's sole responsibility to coordinate with the CTR to plan accordingly for personnel, deliveries, and all other requirements needed to perform work during non-normal scheduled work times.

7.0 REPORTING REQUIREMENTS AND COORDINATION MEETINGS

Contractor shall promptly submit the schedules and reports set forth in Attachment J-8 Contractor / Supplier Submittal Register.

7.1 Daily Reports

Contractor shall make written Daily Reports (Attachment "J-5", Contractor Daily Report) to the CTR by 10:00 am each morning for the preceding day.

7.2 Weekly Progress Meetings

7.2.1 The Contractor shall attend weekly progress meetings. Contractor shall be prepared to discuss scheduled progress versus actual progress giving details of Work completed in relation to the approved schedule, together with a Four-Week Rolling Schedule which provides details of how the Work will be completed.

7.2.2 The person or persons designated by the Contractor to attend the meetings shall have the required authority to make decisions and commit the Contractor to solutions agreed upon during these meetings.

7.3 Monthly Reports, Schedules, and Schedule updates

Shall be in form and format approved by Company. These reports shall be submitted under cover of a letter in accordance with Attachment J-6.

7.4 Other Meetings

Contractor participation in certain additional activities shall also be required. These activities shall include, but not be limited to:

7.4.1 Indoctrination and orientation of all Contractors' employees prior to commencing work at the jobsite. (This includes the entire labor force and all new hires). The meeting will last approximately 8 hours.

7.4.2 Other meetings/ briefings as described in Attachment J-13.

8.0 CORRESPONDENCE, SUBMITTALS AND COMMUNICATION REQUIREMENTS

8.1 Correspondence, submittals, and communication with the Contractor shall be in accordance with Attachment J-6.

8.2 When required by the Contract, Contractor shall transmit to Company, technical submittals, shop drawings or samples, including supporting catalog cuts, manufacturer's literature, sketches or drawings, calculations, and other pertinent data, in sufficient detail to enable Company to review the information and determine that Contractor clearly understands the requirements of the Contract. Documents shall be transmitted to Company under cover of formal contract correspondence utilizing Attachment J-6 Contractor/Supplier Cover Sheet. Contractor shall provide submittals listed on Attachment J-8 (Contractor / Supplier Submittal Register) as part of the Statement of Work.

8.3 Contractor shall submit all engineering data, samples, and shop drawings (herein called "data") listed on "Attachment J- 8 (Contractor / Supplier Submittal Register) for review in accordance with Attachment "J-6".

A. Refer to the Attachment J-8, (Review Period Column) for the Company required review period of data submitted by Contractor.

B. Each submittal of Contractor's data shall be signed by Contractor and accompanied by a letter of transmittal containing the date of submittal, Contract Number, and all pertinent information required for identifying and checking submittals.

(1) One (1) reproducible and two (2) prints shall be submitted for each drawing and any other documents larger than 11" x 17".

(2) Two (2) prints shall be submitted for documents which are 11" x 17" and smaller, and documents such as procedures and calculations shall be 8 1/2" x 11" size.

8.3.2 Although Work may proceed on receipt of data with a Code "B" notation, Contractor must incorporate the changes indicated, resubmit for final approval Code “A” before release of materials or equipment for shipment can be approved by Company. Returned copies of data with Code "B" and "C" shall be resubmitted not later than ten days after the date of transmittal by Contractor of such copies of such data.

8.4 For Contracts that include new construction, the Contractor shall furnish to Company reproducible drawings revised by Contractor to show "as-built” information.

8.4.1 Contractor's revisions shall show details of those locations where the Work performed by Contractor was at variance with the details shown on the drawings (either furnished by Company or furnished by Contractor and reviewed by Company).

8.4.2 Contractor's submittal to Company of such "As-Built" drawings shall be made on a continuous basis as the Work proceeds, but in all cases prior to the date of Notice of Acceptance. For the purposes of Contractor's inclusion of "As-Built" information,

8.4.3 Company will provide Contractor with an electronic version of Company furnished drawings.

8.5 Company reserves the right to review certified material test reports for all materials of construction at any time during field erection. Contractor shall maintain these documents readily available for such review and shall submit all documents to Company on the completion of the Work.

8.6 Contractor shall maintain at the jobsite up-to-date copies of all drawings, specifications, and other documents and supplementary data, complete with latest revisions thereto. In addition, Contractor shall maintain a continuous record of all field changes, and at the conclusion of the Work, shall incorporate all such changes on the "As Built" drawings and other engineering data and shall submit the required number of copies thereof to Company.

8.7 Contractor shall show the Company Contract Number and identifying item numbers, if applicable, on all data submitted pursuant to this Article 8.0.

8.8 Where samples are required, they shall be submitted by and at the expense of Contractor. Such submittal shall be made not less than thirty (30) calendar days prior to the time that the materials represented by such samples are needed for incorporation into any Work. Samples shall be subject to review and materials represented by such samples shall not be manufactured, delivered to the site or incorporated into any Work without such review.

8.8.1 Each sample shall bear a label showing Contractor's name, project name, name of the item, manufacturer's name, brand name, model number, supplier's name and reference to the appropriate drawing, technical specification section and paragraph number, all as applicable.

8.8.2 Samples which have been reviewed may, at Company's option be returned to Contractor for incorporation into the Work.

9.0 CLEAN-UP, SAFETY, WORK RULES, AND REGULATIONS

9.1 Contractor shall perform the work in a safe manner and keep the work site in a clean condition in accordance with Attachment J-13, Environmental Health & Safety Requirements for On-site Work and shall comply with all work rules and regulations.

9.2 The Contractor shall submit their Project Safety Plan to the Company for review and approval in accordance with Attachment J-8. The Project Safety Plan shall address project details (general and specific), requirements of J-13, and comply with and meet applicable Federal, State, and local laws, rules, regulations and guidelines governing worker safety and health. The plan shall address all operations and work practices of the Contractor, subcontractors, and suppliers.

9.3 For Fire Protection Requirements refer to Attachment J-29.

9.4 The Contractor shall provide qualified labor, material, and appropriate means and methods for the decontamination of equipment to allow release of equipment from the site. The cleanup of equipment shall occur at minimum of (5) days prior to a request for release. The contractor shall allow 30 days for the processing and surveying of the cleaned equipment. In the unlikely event that equipment reveals contamination concerns, the Contractor shall perform decontamination activities of equipment within five (5) workdays. If decontamination of the equipment is unsuccessful and the Company and Contractor determine that further decontamination efforts are not expected to achieve acceptable levels, the Company agrees to take receipt of the contaminated equipment and reimburse the damaged party at the current fair market value, as determined by a qualified third-party evaluator or using the Corp of Engineers Green Book value.

10.0 WASTE MANAGEMENT

The X-333 Water Detention System is expected to generate typical construction debris

10.1 Debris/Waste Container Supply and Management

10.1.1 Sanitary/Industrial Waste Containers

A. The Company will provide roll-off box type containers, as needed, for use by the Contractor to dispose of sanitary/ industrial debris and waste.

10.1.2

10.2 Contractor Generated Waste

10.2.1 Clean construction debris generated by the Contractor outside the Limited Area shall be removed from site by the Contractor.

10.2.2 The Contractor shall ensure all packaging materials and/or scrap material (e.g. dunnage, protective wrap, etc.) brought to PORTS by the Contractor shall be taken off-site and disposed of by the Contractor to minimize the amount of waste generated at the work site.

10.2.3 Wastes generated by the Contractor shall be monitored by the Company prior to off-site removal. If contamination is found greater than release limits, the Contractor must contact the CTR for further guidance on disposition

10.3 Debris Characteristics/Handling Requirements

10.3.1 Industrial Debris/Sanitary Waste

A. Material shall be size reduced to fit the roll-off container being used.

11.0 SECURITY

11.1 For Security requirements while working on the PORTS Site the Contractor shall refer to Attachment J-15, Specification 01546 PORTS FBP Site Security Requirements.

12.0 QUALITY ASSURANCE

12.1 Contractor shall be responsible for the performance of all quality assurance program criteria specified in Attachment J-16 Quality Assurance Requirements. The Contractor shall submit a Quality Assurance Program Plan and supporting Inspection Procedures required to perform the Work in accordance with Attachment J-8.

12.2 Contractor quality document(s) submittal shall be approved by the Company prior to activities affecting quality start. The Company may audit the Contractor‘s quality program prior to initiating work.

13.0 CONSTRUCTION

13.1 Contractor shall perform the Work in accordance with this Statement of Work all contractual inquiries should be addressed to the Contract Administrator and Technical inquiries addressed to the CTR in accordance with Attachment J-6.

13.2 Acceptance of Contract:

13.2.1 In Conjunction with Contract Clause H.54 the Contractor shall coordinate a final acceptance walk down of the work with the CTR and others as required to verify completion of the Work and identified discrepancies. Discrepancies will be documented on a punch list and shall be resolved by the Contractor prior to acceptance. Completion of the Punch List must be executed within the Contractor’s project schedule for work completion and not extend beyond the approved project schedule.

13.2.2 The Company shall verify and document that all deliverables, including the Performance Verification Testing submittals of the test reports, has been received and that all requirements have been satisfied. Any nonconformance shall be just cause for rejection of the service provided and delayed payment until the supplier complies with the SOW.