Project No. 11222 Task No. 01

To: Prospective Bidders

Please procure the following and deliver to the address below:

Delivery of Proposal:	Delivery of Performance of Work:
Alabama State Port Authority (ASPA)	Alabama State Port Authority Main Docks
Location identified below in Note #1	Slip C
	Mobile, AL

Description of Work

This Requisition solicits proposals for construction services to replace light pole and repair damaged concrete pedestal as specified in the attached drawings and scope of work. All work shall be in accordance with the requirements stated herein, Scope of Work Specifications, Reference documents and drawings, Insurance Requirements and applicable State of Alabama and Federal Laws. The project site is located at Slip C on the Alabama State Port Authority Main Docks facility in Mobile, AL.

The work consists principally of providing bonds, labor, materials, equipment, insurance, and supervision necessary for the demolition of damaged concrete pedestal, pulling wiring, replacement of concrete pedestal, purchase and installation of new light pole assembly, and disposal of all removed materials associated with the work. All materials, labor, tools, rigging and equipment necessary to perform the work shall be included by the Contractor in the proposal. It is the Contractor's responsibility to field verify all dimensions and site conditions essential for the successful completion of the work. The Contractor shall not be entitled to any additional compensation for any work or expense resulting from the neglect of verifying all existing site conditions.

All Contractors submitting bids are to carefully examine the site of the proposed work and thoroughly review the contract requirements prior to submission of a bid proposal. Each Bidder shall satisfy oneself as to the character, quality, and quantities of work to be performed, and as to the requirements of the proposed contract. The submission of a proposal shall be proof that the bidding Contractor has made such examination and is satisfied as to the conditions to be encountered in performing the work and as to the requirements of the proposed Contract. All bidding Contractors must hold a current license from the State Licensing Board for General Contractors, Montgomery, AL with the classification of (H/RR) Heavy/Railroad, (BC) Building Construction, (BCU4) Building Construction under four stories, or (MU) Municipal and Utility.

An OPTIONAL pre-bid meeting is scheduled for Thursday, February 23, 2023 at 9:00 a.m. at the head of Slip C on the Main Docks Facility. **All bidders without proper access credentials must contact the project manager at least 24 hours in advance to set up an escort into the facility.** Electing to not visit the site before bidding will not relieve the prospective bidders from the previously stated requirements regarding the submission of a proposal.

The work performed under this contract shall not commence until the Contractor has submitted a Performance Bond, Labor & Material Bond, and Certificate of Insurance in an acceptable form. Performance Bond and Labor & Material Bonds shall be in an amount equal to 100% of the contract price; Certificate of Insurance shall be as per the attached requirements and countersigned by a licensed resident agent in the State of Alabama.

February 2023

Date:

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The Contractor shall comply with all Federal and State laws, local ordinances and regulations, and all orders and decrees of bodies or tribunals having any jurisdiction or authority, which in any manner affect those engaged or employed on the work, or which in any way affect the conduct of the work.

The Contractor will be required to complete the work under the Contract within 90 calendar days after receipt of a "Notice to Proceed". Work will start and the Contractor will be required to furnish proof of purchase of materials within 10 calendar days after receipt of notice to proceed. The work will have to be scheduled and performed in a manner that will not interfere with the operations of the facility ongoing in the immediate and adjacent areas. ASPA intent is that work hours will be during normal day light hours.

ASPA cargo handling operations take priority over construction activities. The work area is directly adjacent to active wharfs with marine and land activity in the general vicinity of the work area, thus the Contractor must coordinate closely with ASPA Engineering and Operations personnel to schedule work activities to ensure that they do not interfere with normal operations. The Contractor shall plan work activities in such a way as to keep the maximum amount of wharf area orderly and accessible during all phases of the project. The Contractor must provide a high visibility temporary barrier to delineate the limits of construction activities on the berth at all times. The Contractor must capture and dispose of all waste materials generated by the construction activities. The Contractor is responsible for the disposal of all waste materials associated with the work.

The Contractor shall place a competent superintendent on the Project who shall have experience in the work being performed under the Contract. The assigned superintendent shall have the responsibility for the day-to-day operations of the work and shall remain on the Project site while the work under the Contract is being performed. It is the responsibility of the Contractor to become familiar with all conditions affecting the nature and manner of the work.

The Contractor will agree to comply with the safety rules, standards and regulations of the Federal Occupational Safety and Health Administration (OSHA) applicable to each of its operations, and to those established and recommended safety standards inherent in the industry; and to comply with U.S. Coast Guard regulations applicable to waterfront facilities and the policies of the Alabama State Port Authority while occupying any property of the Alabama State Port Authority.

The Alabama State Docks is a full time operating facility; operating 24 hours a day, 365 days a year, including nights, weekends and holidays. The successful Contractor will be required to familiarize itself with and conform to all Port safety requirements and procedures.

Time is an essential element in the contract. As the prosecution of the work will inconvenience the tenant and interfere with business, it is important that the work be pressed vigorously to completion. Also, the cost to the Alabama State Port Authority of the administration of the contract, supervision, inspection and engineering will be increased as the time occupied in the work is lengthened. Therefore, exclusive of Sundays and national holidays, for each day that the work remains incomplete after the time specified, an amount of \$500.00 shall be paid by the contractor to the Alabama State

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Port Authority as liquidated damages for the loss sustained by the State because of failure of the contractor to complete the work within the specified time.

IMPORTANT NOTICE TO BIDDERS REGARDING ACCESS TO ASPA RESTRICTED FACILITIES:

The Alabama State Port Authority's Access Policy is provided on the ASPA website and in the links below:

https://www.alports.com/port-access/

ALL persons working on this project are REQUIRED to have valid access credentials to include: 1) A TWIC Card 2) ASPA Badge 3) ASPA Vehicle Decal.

IMPORTANT NOTICE TO BIDDERS REGARDING EMPLOYMENT PRACTICES:

Effective October 1, 2011, the Beason-Hammon Alabama Taxpayer and Citizen Protection Act ("the Act") requires that any business entity contracting with or providing any grant or incentives to the state, including the Alabama State Port Authority, certify compliance with the Act. All Bidders must certify such compliance by executing the enclosed Certificate of Compliance and returning it to the Alabama State Port Authority with your bid package along with proof of the contractor's enrollment in the e-verify program. The following E-Verify website link is provided for convenience: http://www.dhs.gov/files/programs/gc 1185221678150.shtm.



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Contractor's Proposal

The Contractor hereby agrees to perform the specified work for the prices outlined in the following schedule. All items listed shall be performed in accordance with this requisition and proposal and all referenced documents.

	Description	Est Qty	иом	Unit Price	Value
1.	Project Mobilization/Demobilization	1	LS	LS	\$
2.	Bonds, Insurance & Port Access Credentials.	1	LS	LS	\$
3.	Partial demolition & disposal of damaged concrete pedestal per attached scope of work specifications and reference drawings.	1	LS	LS	\$
4.	Electrical work including disconnecting, pulling wiring, replacing damaged conduit, reconnection of pole and lights, and other items necessary for the installation of a complete working system per attached scope of work specifications and reference drawings.	1	LS	LS	\$
5.	Reconstruction of concrete pedestal per attached scope of work specifications and reference drawings.	1	LS	LS	\$
6.	Furnish & Install new light pole assembly, including anchor bolts, fixtures, bulbs & appurtenances per attached scope of work specifications and reference drawings.	1	LS	LS	\$
<u>TOTAL BID</u> \$					

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NOTES:

- 1. Sealed bid proposals will be received via courier to the Alabama State Port Authority, 1400 Alabama State Docks Blvd, Suite 216, Administration Building, Mobile, AL 36602 by 1:30 P.M. on Thursday, March 9, 2023. Sealed bid proposals can also be hand delivered to the Killian Room starting at 15 minutes prior to the official bid opening at 2:00 PM on Thursday, March 9, 2023 at the Alabama State Port Authority in the International Trade Center building, 250 North Water Street, Killian Room, Mobile, AL. No bids will be accepted after 2:00 P.M. No faxed or electronic bids will be accepted. Conditional bids will not be accepted.
- 2. Bid proposals must be submitted in sealed envelopes with the words "Bid Document Enclosed" clearly marked on the outside of the envelope. Sealed bids shall have the bidder's name, contractor's license number, project name, and time and date of bid opening shown on the outside of the envelope.
- **3.** A Bid Bond or Certified Check made payable to the Alabama State Port Authority and equal to five percent (5%) of the amount bid, not to exceed \$10,000, must accompany the Bid Proposal.
- **4.** Authority reserves the right to refuse to issue a proposal form or a contract to a prospective bidder for any of the following reasons:
 - a) Failure to pay, or satisfactorily settle, all bills due for labor and materials on former contract in force with the Authority.
 - b) Contractor default under previous Contract with the Authority.
 - c) Proposal withdrawal or Bid Bond forfeiture on previous project with the Authority.
 - d) Unsatisfactory work on previous contract with the Authority.
 - e) Lack of competency, past experience, adequate machinery or lack of personnel.
- **5.** Authority may make such investigations as deemed necessary to determine the ability of the bidder to perform the work, and the bidder shall furnish all such information and data for this purpose as the Authority may request. The Authority reserves the right to reject any bid if the evidence submitted by, or investigation of, such bidder fails to satisfy the Authority that such bidder is properly qualified to carry out the obligations of the Contract.
- **6.** The Owner may terminate the contract, or any portion thereof, for just cause by written notice to the Contractor. If the contract, or any portion thereof, is terminated before completion of all items of work in the contract, payment will be made for the actual number of units or items of work completed or started. No claims for loss of anticipated profits will be considered.
- 7. If the Contractor to whom this contract is awarded does not provide adequate service or workmanship, ASPA reserves the right to cancel the contract and re-bid this work excluding that Contractor from consideration.
- **8.** Any questions regarding the procurement should be directed to Matthew Thomas, P.E., Project Manager, at phone number (251) 441-7242 or email matthew.thomas@alports.com.
- **9.** The right is reserved, as the interest of the Alabama State Port Authority may require, to reject any and all bids and to waive informalities in bids received.
- **10.** The Contractor must provide a high visibility temporary barrier to delineate the limits of construction activities on the berths at all times.
- **11.** The cost of all items ancillary to the project shall be absorbed into the cost of the bid items. No separate payment shall be made for these items.

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	SIGNATUR	RES	
Receipt of following addendum Addendum No. Addendum No. Addendum No. Addendum No. Addendum No.			
	REFERENCED DO	CUMENTS	
Certificate of ComplianReference Photos		ements for Contract Work non Alabama Taxpayer & Cit 2, 4454-P1, 4454-E1	izen Protection Act
Contractor's Signature:			
Contractor Company			
Name	Title		Date
Signature of Party Originating	Requisition:		
Matthew-Thomas	2/7/23		
Matthew Thomas, P.E. Project Manager	Date		

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SCOPE OF WORK SPECIFICATIONS

SECTION 501 GENERAL PROVISIONS

The following detail Specifications, taken in conjunction with the Drawings, describe the work to be performed by the Contractor. They amplify and explain most items in connection with the work, but do not alter the scope of same as described elsewhere in this requisition.

All materials used in the work, which are not described specifically, shall be of the best quality that it is customary to employ in construction of the character involved. The following details are not necessarily complete in the description of all items entering into the work, but are intended to furnish a basis for acceptance of the more important items. Other details shall be consistent with them.

Any detail which may be incomplete or lacking in the drawings and specifications shall not constitute claim for extra compensation. Such detail shall be supplied by the Contractor and submitted to the Engineer in advance of its requirement on the job. The true intent of the plans and specifications is to produce a complete working system and incomplete detail will not abrogate this intent.

It is the intent to follow the Drawings and Specifications closely in all details, elevations, dimensions, etc., but it is understood that alterations may be required to conform to local conditions and that such alterations must be of the same character of construction as that specified. Workmanship shall be of the best quality in each class of work.

SECTION 502 SUMMARY OF THE WORK

502-01 SUMMARY

This section includes work covered by the Contract Documents and identifies the work sequence.

502-02 WORK COVERED BY THE CONTRACT DOCUMENTS

The work consists of the following:

- 1. Mobilization of supplies, equipment, and personnel to site for project execution.
- 2. Partial demolition and disposal of damaged concrete pedestal.
- Electrical work including disconnecting, pulling wiring, replacing damaged conduit, reconnection of pole and lights, and other items necessary for the installation of a complete working system
- 4. Reconstruction of concrete pedestal
- 5. Furnish and install new light pole assembly, including fixtures, bulbs, etc.
- Demobilization from site.

502-03 WORK SEQUENCE

Insofar as practical, the order of work will be as scheduled by the Contractor and approved by the Project Engineer. The Contractor is required to submit a tentative schedule detailing the sequence of events and time frame for Contractor's activities. Contractor's attention is directed to the fact that the



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facility's cargo handling operation is a priority item, therefore, close coordination with ASPA Operations and the project engineer is required. Contractor will only be allowed to de-electrify local power to create a safe working situation. Power to any adjacent warehouses or cargo working areas must remain serviceable at all times. No work shall start on-site until the new light pole assembly is in hand.

502-04 ACCESS FOR EQUIPMENT AND TRAFFIC

It is ASPA's intent to have full use of the head of slip surface area for storage, traffic, and cargo handling operations during the life of this contract, thus it will be necessary for the Contractor to coordinate his operations and make suitable provisions to accommodate such. Interruption or restriction of cargo handling operations will not be permissible.

502-05 VERIFICATION OF EXISTING CONDITIONS

It is necessary for the Contractor to verify all existing conditions affecting the work. The Contractor is to familiarize self with all aspects of the project, particularly existing conditions, elevations, and surrounding activities.

502-06 ORDER OF WORK

It is essential that ASPA utilize its space in the most efficient manner practical. Therefore, the Contractor work described within these Specifications must be completed within the time allotment given. The Contractor shall so schedule his operations to complete the work accordingly.

SECTION 503 PEDESTAL DEMOLITION

503-01 SCOPE

This section covers the demolition and disposal of the concrete pedestal components This shall include the following:

- All components of the existing concrete pedestal shown on the contract drawings.
- All hardware and accessories. Items designated to be reused must be maintained by the contractor.
- Any minor items which may not be shown or specified herein, but which are found to interfere with replacement work.

503-02 PROTECTION OF EXISTING STRUCTURES

The demolition and disposal work required under this Contract shall be performed in such a manner so as not to damage any existing structures and any damage thereto by the Contractor's operation shall be repaired by the Contractor at no cost to ASPA. The head of the slip design load is 1000 psf for uniformly distributed loads over surface. The Contractor shall take necessary precautions to avoid overloading.

503-03 REMOVAL OF PEDESTAL AND HARDWARE

The existing concrete pedestal shall be demolished a minimum of 3" below the existing anchor bolts, while also ensuring the new anchor bolts can be installed in the available area. All existing #6 vertical bars shall remain. If damaged they shall be replaced in like kind and embedded into existing concrete a minimum of 12" with anchoring adhesive. If possible, the existing stirrups shall also be reused. The



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existing pedestal shall be removed within the areas designated on the referenced drawings. All associated light pole anchor hardware shall be removed and disposed. All removed material shall become property of the Contractor and shall be disposed outside ASPA property in accordance with all governing laws and regulations.

SECTION 504 ELECTRICAL WORK

504-01 SCOPE

This section covers pulling the wiring and replacing damaged conduit.

504-02 PROTECTION OF EXISTING STRUCTURES

The wire pulling work required under this Contract shall be performed in such a manner so as not to damage any existing structures and any damage thereto by the Contractor's operation shall be repaired by the Contractor at no cost to ASPA.

504-03 PULLING WIRING

The wire shall be pulled from the pedestal to the building and from the pedestal to the next pole. Once the wire is removed, the damaged conduit can be cut above the surface so that a fitting can be added for new conduit. The damaged conduit shall be replaced and the wiring must be pulled back to the pedestal after the pedestal is reconstructed.

SECTION 505 RECONSTRUCTION OF DAMAGED CONCRETE PEDESTAL

505-01 SCOPE

The work covered by this section shall consist of furnishing all plant, labor, materials, tools, equipment and incidentals necessary for the reconstruction of the pedestal as indicated on the referenced drawings and/or specified herein.

505-02 GENERAL

The Contractor shall visit the premises to thoroughly familiarize self with all details of the work and working conditions, to completely survey and verify all dimensions in the field, and to advise the Project Manager of any discrepancies.

505-03 MATERIALS

All materials shall be new and conform to the following:

- A. <u>Concrete:</u> 5,000 psi @ 28 days.
- B. Reinforcing bars: All existing #6 vertical bars shall remain. Eight #6 vertical bars shall be epoxy anchored midway between existing vertical bars and #4 stirrups shall be placed at 6" centers within the repair area. The existing stirrups may be reused if possible.

 Additional #6 vertical bars shall be installed with Red Head Adhesive Anchoring system

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or an approved equal. All reinforcing shall conform to ASTM A615, Grade 60. Minimum of 3" cover on all rebar.

C. Bolts and Nuts:

1. <u>Anchor bolts:</u> Replace in like kind to existing, or per pole manufacturer recommendations.

505-04 PLACING CONCRETE

A. <u>General</u>: Where new concrete is placed against previously the existing concrete, the existing concrete surface shall be clean and free of laitance and roughened to a full amplitude of approximately ¼ inch. Prior to placing the new concrete, an epoxy bonding agent shall be applied to the clean, roughened surface. Epoxy bonding agent shall be "Sikdadur-32 Hi-Mod" or approved equal.

SECTION 506 NEW LIGHT POLE

506-01 SCOPE

The work covered by this section shall consist of furnishing all plant, labor, materials, tools, equipment, and incidentals necessary for the installation of new light pole assembly and fixtures as indicated on the referenced drawings and/or specified herein.

506-02 GENERAL

The Contractor shall visit the premises to thoroughly familiarize self with all details of the work and working conditions, to completely survey and verify all dimensions in the field, and to advise the Project Manager of any discrepancies.

Complete shop drawings showing exact field dimensions shall be submitted to the Project Manager for review before installation. The Contractor shall be responsible for all errors of detailing, fabrication, and for correct fitting of the light pole. Should new light pole require different anchoring details than existing (example: six anchor rods vs four anchor rods), the contractor shall not be entitled to any contract price adjustment.

506-03 MATERIALS

All materials shall be new and conform to the following:

A. 50 foot light pole to be in like kind to the surrounding light poles and include similar fixtures

506-04 LIGHT POLE INSTALLATION

Light pole to be installed in like kind to the surrounding light poles.

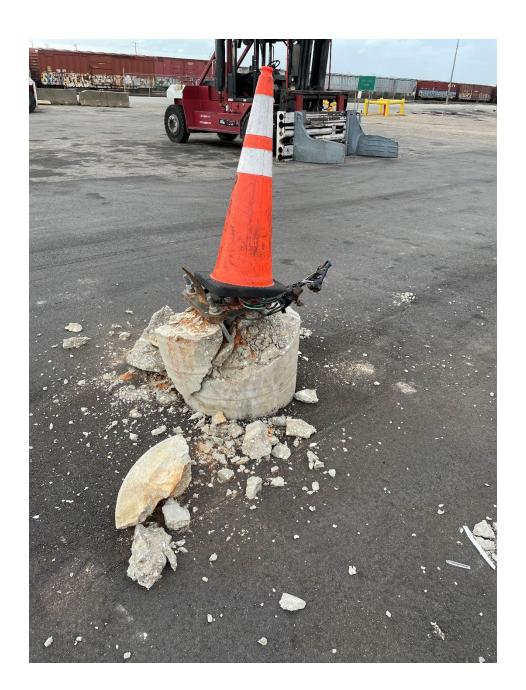
Project No. 11222 Task No. 01

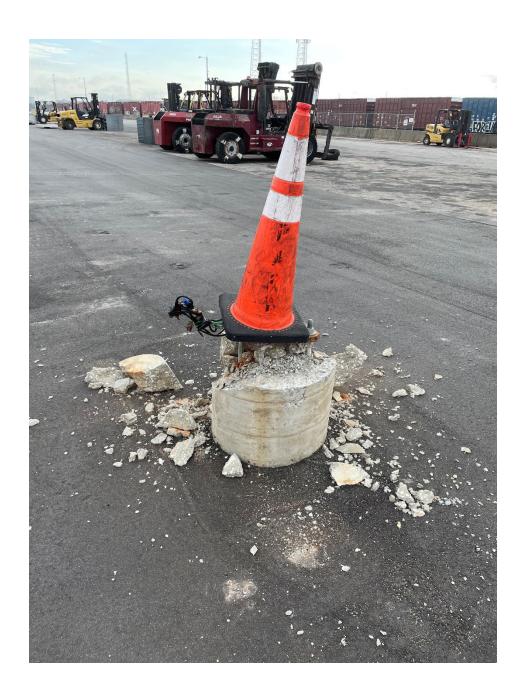
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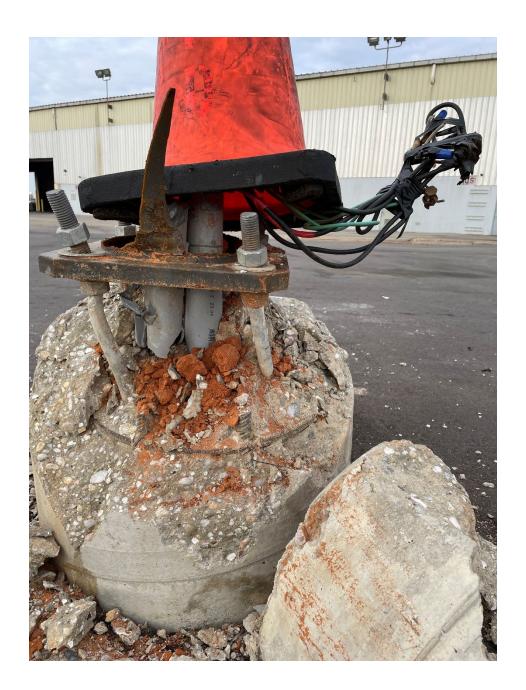
SECTION 507 REFERENCED DRAWINGS

507-01 LIST OF DRAWINGS

A. Head of Slip C Bulkhead Reference Dwgs. 4454-G2, 4454-P1, 4454-E1









ALABAMA STATE PORT AUTHORITY



HEAD OF SLIP "C" BULKHEAD REPLACEMENT

KAY IVEY, GOVERNOR OF ALABAMA JOHN C. DRISCOLL, DIRECTOR



JULY 2022

REFERENCE DRAWINGS

1 AS-BUILT

ISSUED FOR CONSTRUCTION

DRAWING INDEX

DWG. NO. DWG. TITLE

GENERAL:

4454-G1 TITLE SHEET

4454-G2 PROJECT GENERAL NOTES

4454-G3 EXISTING SITE PLAN

4454-G4 EROSION CONTROL DETAILS

DEMOLITION:

4454-D1 DEMOLITION PLAN

4454-D2 DEMOLITION PHOTOS

4454-D3 DEMOLITION DETAILS

STRUCTURAL:

4454-S1 NEW SITE PLAN

4454-S2 TYPICAL CROSS SECTION

4454-S3 NEW SHEET PILE PLAN

4454-S4 SHEET PILE DETAILS

454-S5 TIE RODS AND WALER DETAILS

4454-S5A ANCHOR WALL WALER MODIFICATION

4454-S6 NEW PILE CAP PLAN

4454-S7 TYPICAL PILE CAP SECTION

4454-S8 NEW STORM WATER DRAINAGE PLAN

4454-S9 DRAINAGE DETAILS & WALL PENETRATIONS

4454-S10 CUT AND FILL STATIONING PLAN

454-S11 STA 0+00 CROSS SECTIONS - EXISTING SECTION AND NEW SECTION

454-S12 STA 0+50 CROSS SECTIONS - EXISTING SECTION AND NEW SECTION

4454-S13 STA 1+00 CROSS SECTIONS - EXISTING SECTION AND NEW SECTION

4454-S15 STA 2+00 CROSS SECTIONS - EXISTING SECTION AND NEW SECTION

STA 1+50 CROSS SECTIONS - EXISTING SECTION AND NEW SECTION

4454-S16 STA 2+50 CROSS SECTIONS - EXISTING SECTION AND NEW SECTION

4454-S17 STA 3+00 CROSS SECTIONS - EXISTING SECTION AND NEW SECTION

4454-S18 STA 3+50 CROSS SECTIONS - EXISTING SECTION AND NEW SECTION

4454-S19 STA 4+00 CROSS SECTIONS - EXISTING SECTION AND NEW SECTION

4454-S20 STA 4+50 CROSS SECTIONS - EXISTING SECTION

4454-P1 PAVING SECTIONS AND DETAILS

4454-E1 LIGHT POLE RE-INSTALLATION

REFERENCE DRAWINGS:

MED

VOLKERT REFERENCE DRAWINGS



AS BUILT



ALABAMA STATE PORT AUTHORITY

SPA PROJECT NO.10842 TASK 8



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FOR: ALABAMA STATE PORT AUTHORITY

PROJECT NO: 4454 DWG NO: G1

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GENERAL NOTES:

- 1. THE CONTRACTOR IS TO FIELD VERIFY ALL DIMENSIONS, ELEVATIONS, AND CONDITIONS PRIOR TO CONSTRUCTION AND FABRICATION
- 2. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING STRUCTURES AND ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
- 3. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT ALL UTILITY LINES DURING CONSTRUCTION. IF THE UTILITY LINES ARE DAMAGED DURING CONSTRUCTION, THE CONTRACTOR SHALL MAKE NECESSARY REPAIRS TO THE ACCEPTANCE OF THE ENGINEER AT THE EXPENSE OF THE CONTRACTOR.
- 4. CONSTRUCTION METHODS, PROCEDURES AND SEQUENCES ARE THE CONTRACTOR'S RESPONSIBILITY. THE CONTRACTOR SHALL TAKE ALL THE NECESSARY MEANS TO MAINTAIN AND PROTECT THE STRUCTURAL INTEGRITY OF ALL CONSTRUCTION AT ALL STAGES.
- 5. WHERE A DETAIL IS SHOWN FOR ONE CONDITION, IT SHALL APPLY FOR ALL LIKE OR SIMILAR CONDITIONS EVEN THOUGH NOT SPECIFICALLY CALLED FOR ON THE DRAWINGS.
- 6. CONTRACTOR IS REQUIRED TO USE "BEST MANAGEMENT PRACTICES" COMPLIANT WITH THE "ALABAMA HANDBOOK FOR EROSION CONTROL AND STORMWATER MANAGEMENT ON CONSTRUCTION SITES AND URBAN AREAS:. ALABAMA SOIL AND WATER CONSERVATION COMMITTEE, MONTGOMERY, ALABAMA, MOST CURRENT EDITION, TO PREVENT THE DIVERSION OF SEDIMENT LADEN STORM WATER RUNOFF OR ERODED MATERIALS FROM LEAVING THE
- 7. THE CONTRACTOR SHALL ARRANGE FOR AND COORDINATE WITH THE OTHER WORK OCCURRING ON OR IN THE PROXIMITY OF THE SITE.

DESIGN CODES & STANDARDS

AISC MANUAL OF STEEL CONSTRUCTION, 9TH EDITION AMERICAN WELDING SOCIETY (AWS D1 1)

SURVEY NOTES:

- 1. SITE SURVEY PERFORMED BY LAWLER AND COMPANY, INC. SURVEY COMPLETED NOVEMBER 16, 2020.
- 2.150 FOOT GRID BASED ON ALABAMA STATE PLANE COORDINATE SYSTEM, WEST ZONE, NAD 83 (ORIGINAL ADJUSTMENT) ESTABLISHED ON SITE USING
 RTK GPS REFERENCING ASPA CONTROL MONUMENTATION ESTABLISHED BY THIS FIRM.
- 3. ONE FOOT CONTOUR INTERVAL BASED ON MLLW, 1929 REFERENCING ASPA CONTROL MONUMENTATION ESTABLISHED BY THIS FIRM.

STEEL PILE NOTES (TYPICAL):

- 1. SHEET PILES SHALL CONFORM TO ASTM A572, GRADE 60. (OWNER SUPPLIED).
- 2. STEEL SHEET PILING SHALL BE COATED BOTH SIDES WHERE INDICATED. COATING TYPE AND DIMENSIONS SHALL BE AS SPECIFIED. (OWNER SUPPLIED).
- 3. CONTRACTOR SHALL MONITOR DIMENSIONS OF SHEET PILE WALLS DURING INSTALLATION AND MODIFY TIE IN CONNECTIONS ACCORDINGLY.
- 4. PILE ALIGNMENT:
- IN ADDITION TO PILE DRIVING TEMPLATES, IT IS THE CONTRACTORS COMPLETE RESPONSIBILITY TO MAINTAIN THE PROPER ALIGNMENT OF SHEET PILES UNTIL ENCASED IN CONCRETE.
- 5. THERE SHALL BE A MINIMUM OF 4 LINEAR INCHES OF 3/16" WELD AT TOP OF SHEET AT EACH SHEET PILE INTERLOCK ON BOTH SIDES OF THE SHEET.

CONCRETE GENERAL NOTES

MATERIALS

- 1. ALL CAST-IN-PLACE CONCRETE SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 5000 PSI AT 28 DAYS.
- 2. REINFORCING BARS SHALL BE DEFORMED AND SHALL CONFORM TO ASTM A615,
- 3. EMBEDDED STEEL MATERIAL SHALL CONFORM TO ASTM A36. ALL EMBEDDED STEEL ITEMS WILL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A-123 AND ASTM A-143 UNLESS NOTED OTHERWISE.
- 4. CONTRACTOR SHALL BE RESPONSIBLE FOR HIRING THE TESTING LABORATORY.

CONSTRUCTION METHODS

- 1. COORDINATE CONCRETE WORK WITH OTHER REQUIRED WORK PRIOR TO PLACING CONCRETE. ANY DISCREPANCIES BETWEEN THE DETAILS INDICATED ON THE
 DRAWINGS AND THE ACTUAL REQUIRED INTERFACE SHALL BE BROUGHT TO THE
 ATTENTION OF THE ENGINEER. ANY REWORK REQUIRED DUE TO INADEQUATE COORDINATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR
- 2. EXPOSED EDGES OF CONCRETE SHALL HAVE A 1" CHAMFER
- 3. CONCRETE COVER FOR REINFORCING IN CAST-IN-PLACE CONCRETE WORK SHALL BE AS FOLLOWS UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DETAIL DRAWINGS:
- CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO THE EARTH 3 INCHES

1 AS-BUIL

REFERENCE DRAWINGS

ISSUED FOR CONSTRUCTION

REVISION

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APPD

04/15/21

DATE

- CONCRETE EXPOSED TO WEATHER 2 INCHES
- 4. SPLICES IN REINFORCING BARS SHALL BE CLASS "B" SPLICES AS DEFINED BY ACI318 UNLESS NOTED OTHERWISE ON THE DRAWING
- 5. CONCRETE FLOOR SLABS, DOCK SURFACE, ROADWAYS AND AREA PAVING SHALL HAVE A BROOM FINISH. VERTICAL WALLS SHALL HAVE A RUBBED FINISH.
- 6. AT LOCATIONS WHERE NEW CONCRETE IS TO BE PLACED AGAINST PREVIOUSLY HARDENED CONCRETE, THE EXISTING CONCRETE SURFACE SHALL BE CLEAN AND FREE OF LAITANCE AND ROUGHENED TO A FULL AMPLITUDE OF APPROXIMATELY K. INCH. PRIOR TO PLACING THE NEW CONCRETE, AN EPOXY BONDING AGENT SHALL BE "PCLICOTE 17 BRUTEM" OR APPROVED EQUAL.

 AGENT SHALL BE "CEILCOTE 17 BRUTEM" OR APPROVED EQUAL.

SOILS COMPACTION NOTES:

- MATERIALS EXCAVATED, IF FREE OF DEBRIS, DELETERIOUS MATERIALS OR EXCESSIVE MOISTURE AND MEETING THE REQUIREMENT BELOW, MAY BE USED AS BACKFILL. IT SHALL BE PLACED IN UNIFORM LIFTS OF 12 INCHES, LOOSE MEASUREMENT, AND THOROUGHLY COMPACTED TO 95% OF ITS MAXIMUM DRY DENSITY WITHIN ±2% OF ITS OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D1557 (MODIFIED PROCTOR)
- 2. STRUCTURAL FILL SHALL BE A GRANULAR MATERIAL WITH A MAXIMUM OF 20% PASSING THE NUMBER 200 SIEVE. IT SHALL BE PLACED IN UNIFORM LIFTS OF 12 INCHES, LOOSE MEASUREMENT, AND THOROUGHLY COMPACTED TO 95% OF ITS MAXIMUM DRY DENSITY WITHIN ±2% OF ITS OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D1557 (MODIFIED PROCTOR).
- 3. SELECT SAND USED TO BACKFILL WITHIN SATURATED ZONES SHOULD CONSIST OF A LOCALLY AVAILABLE PIT MATERIAL DEFINED AS A MEDIUM TO COARSE SAND CONTAINING LESS THAN 90 PERCENT PASSING THE NO. 40 SIEVE AND LESS THAN 10 PERCENT PASSING THE NO. 200 SIEVE, BY WEIGHT. MAXIMUM LOOSE LIFT THICKNESSES OF 12 INCHES SHALL BE COMPACTED TO 95 PERCENT OF 1TS MAXIMUM DRY DENSITY WITHIN ±2% OF ITS OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D-1557 (MODIFIED PROCTOR).
- 4. IN-PLACE DENSITY TESTS SHOULD BE PERFORMED DURING CONSTRUCTION TO INSURE THAT PROPER COMPACTION IS BEING ACHIEVED. CONTRACTOR SHALL BE RESPONSIBLE FOR HIRING THE TESTING LABORATORY.

PAVEMENT NOTES:

- 1. A LAYER OF GEOGRID, TENSAR BX 1200 WITH NO EQUIVALENT, SHALL BE PLACED OVER THE PREPARED SUBGRADE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- 2. A MINIMUM 6-INCH THICKNESS OF THOROUGHLY COMPACTED CRUSHED AGGREGATE BASE SHALL BE PLACED OVER THE GEOGRID MAT. THE BASE MATERIAL SHALL MEET THE REQUIREMENTS AS OUTLINED IN SECTION 825, GRADATION "B", OF ALDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.
- 3. A 3-INCH LAYER OF SUPERPAVE BITUMINOUS CONCRETE UPPER BINDER LAYER, 1" MAX. AGGREGATE SIZE MIX, ESAL RANGE (C/D), MEETING THE REQUIREMENTS AS OUTLINED IN SECTIONS 410 AND 424 OF ALDOT STANDARD SPECIFICATIONS SHALL BE PLACED OVER THE COMPACTED BASE COURSE.
- 4. A 2-INCH LAYER OF SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE, ½" MAX. AGGREGATE SIZE MIX, ESAL RANGE (C/D), MEETING THE REQUIREMENTS AS OUTLINED IN SECTIONS 410 AND 424 OF ALDOT STANDARD SPECIFICATIONS SHALL BE CONSTRUCTED OVER THE BINDER LAYER.

DESIGN CRITERIA:

SURCHARGE ON SHEET PILE WALL = 1000 PSF PARKING LOT DESIGN LOAD = 1000 PSF DESIGN DREDGE DEPTH = (-)30.0

RAILROAD NOTES:

- 1. RAILROAD WORK TO BE COORDINATED WITH TERMINAL RAIL ROAD (TRR). CONTACT D.W. LYND @ 251-421-3144
- 2. TRACK, TIES, BALLAST AND SUBGRADE TO BE RE-INSTALLED PER DIRECTION AND APPROVAL OF TRR
- 3. RE-USE BALLAST MATERIAL AND\OR FURNISH NEW BALLAST MATERIAL AS REQUIRED.
- 4. TRACKS NEED TO BE LOCKED OUT BY TRR BEFORE THE TRACKS ARE REMOVED.



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CK'D: MED APPD: RSG DATE: 11/11/20 SCALE: NONE

AS BUILT



ALABAMA STATE PORT **AUTHORITY**

ASPA PROJECT NO.10842 TASK 8

HEAD OF SLIP "C" BULKHEAD REPLACEMENT

MORILE

PROJECT GENERAL NOTES

OR: ALABAMA STATE PORT AUTHORITY

ROJECT NO: 4454

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