



eProjects WO#: 1371830

FINAL SUBMISSION

FY-2015 MAINTENANCE DREDGING

at the

**NORFOLK NAVAL SHIPYARD
PORTSMOUTH, VIRGINIA**

DESIGNED BY:

NAVFAC MID-ATLANTIC; Capital Improvements Core
Hydrographic Branch
9080 VIRGINIA AVENUE
NORFOLK, VIRGINIA 23511-3095

SPECIFICATION PREPARED BY:

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Date: April 15, 2015

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For Commander, NAVFAC MID-ATLANTIC:


James S. Georgo, P.E.
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James S. Georgo, P.E. Date

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SECTION 00 01 15

LIST OF DRAWINGS
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PART 1 GENERAL

1.1 SUMMARY

This section lists the drawings for the project pursuant to contract clause "DFARS 252.236-7001, Contract Drawings, Maps and Specifications."

1.2 CONTRACT DRAWINGS

Contract drawings are as follows:

DRAWING NO.	NAVFAC DWG NO.	TITLE
V-001	12690961	TITLE SHEET
V-002	12690962	DETAIL SHEET
V-101	12690963	WET SLIP 3
V-102	12690964	WET SLIP 5 & DRYDOCK 8

-- End of Document --

SECTION 00 41 00

BID SCHEDULES

7/15/2015

PART 1 GENERAL

1.1 BASIS OF BIDS

1.1.1 Unit Price Schedule

This contract will be awarded as one lump sum with unit prices required for specifically selected work. A schedule of the unit price work is contained in Standard Form SF 1442, "Solicitation, Offer and Award." See Contract Clauses, "FAR 52.211-18, Variation in Estimated Quantity" and "FAR 52.236-16, Quantity Surveys".

The Base Amount work is anticipated to begin 1st Quarter FY16 and the Option 1 work is anticipated to begin 2nd Quarter FY16. There will be two separate mobilization efforts due to ship scheduling at Norfolk Naval Shipyard. The Government reserves the right to exercise Option 1 at any time no later than 180 days from the award date.

ITEM 0001: Basis of Bid for Item 0001 shall be the Total Amount for Item 0001 (Items 0001a through 0001b), complete in accordance with the drawings and specifications:

Item	Description	Estimated Quantity	Unit	Unit Price	Amount
0001a	Mobilization to and De-Mobilization from the project site	1 Job	LS	XXX	\$ _____
0001b	Bucket Dredging of areas noted as Base Bid in accordance with the drawings and specifications and transport and disposal of material directly into Rehandling Basin at Craney Island Dredge Material Management Area, Portsmouth, VA.	9,582	CY	\$ _____	\$ _____
	TOTAL ITEM 0001				\$ _____

The contract completion date shall be no later than 45 calendar days after award of the contract. The Contractor shall mobilize all required equipment and personnel and commence dredging no later than 30 calendar days after the award of the contract.

ITEM 0002: Option 1 – Basis of Bid for Item 0002 shall be the Total Amount for Item 0002, (Items 0002a through 0002b), for the addition of the following work in accordance with the drawings and specifications. The decision to award the bid option as described herein shall be at the sole discretion of the Government. The Government reserves the unilateral right to award this option no later than 180 days from award date. No provision is made for economic price adjustment. Method of evaluation of bids for award purposes is specified below.

Item	Description	Estimated Quantity	Unit	Unit Price	Amount
0002a	Mobilization to and De-Mobilization from the project site	1 Job	LS	XXX	\$ _____
0002b	Bucket Dredging of areas noted as Bid Option 1 in accordance with the drawings and specifications and transport and disposal of material directly into Rehandling Basin at Craney Island Dredge Material Management Area, Portsmouth, VA.	59,204	CY	\$ _____	\$ _____
	TOTAL ITEM 0002				\$ _____

The contract completion date shall be no later than 75 calendar days after award of the option. The Contractor shall mobilize all required equipment and personnel and commence dredging no later than 30 calendar days after the award of the option.

Bid Notes:

- a. Evaluation of Options (JUL 1990). Except when it is determined in accordance with FAR 17.206 (b) not to be in the Government's best interest, the Government will evaluate offers for award purpose by adding the price for the option(s) to the total price for the Bid Item 0001. Evaluation of options will not obligate the Government to exercise the option(s). (FAR 52.217-5).
- b. The Government reserves the unilateral right to award Item 0002 to the successful contractor at the price stated within 180 calendar days after award in accordance with FAR 52.217-7 Option for Increased Quantity -- Separately Priced Line Item. A firm fixed bid price is required for the option. No provision is made for economic price adjustment. Method for evaluation of bids for award purposes is specified below.
- c. In the event there is a difference between a unit price and the extended total, the unit price will be held to be the intended bid. If the bidder shows only the total price but fails to enter a unit price, the total divided by the estimated quantity will be held to be the intended unit price.
- d. The Government may reject an offer as non-responsive in accordance with FAR 14.404-2 -- Rejection of Individual Bids, if it is materially unbalanced as to prices for the basic requirement and the option items. An offer is unbalanced when it is based on prices significantly less than cost for some work and prices which are significantly higher for other work.

SECTION 01 11 00

SUMMARY OF WORK

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PART 1 GENERAL

1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

ASTM INTERNATIONAL (ASTM)

ASTM E2114 (2008) Standard Terminology for Sustainability Relative to the Performance of Buildings

1.2 DEFINITIONS

Definitions pertaining to sustainable development are as defined in ASTM E2114, Section 01 35 40.00 20 ENVIRONMENTAL MANAGEMENT and Section 01 57 20.00 10 ENVIRONMENTAL PROTECTION, and as specified.

- a. "Environmentally preferable products" have a lesser or reduced effect on the environment in comparison to conventional products and services. This comparison may consider raw materials acquisition, production, manufacturing, packaging, distribution, reuse, operation, maintenance, or disposal of the product.
- b. "Indoor environmental quality" is the physical characteristics of the building interior that impact occupants, including air quality, illumination, acoustics, occupant control, thermal comfort, daylighting, and views.
- c. "Operational performance" is the functional behavior of the building as a whole or of the building components.
- d. "Sustainability" is the balance of environmental, economic, and societal considerations.

1.3 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for information only.

1.4 WORK COVERED BY CONTRACT DOCUMENTS

1.4.1 Project Description

The work includes bucket dredging of mud and silt within the indicated areas of Norfolk Naval Shipyard, placement into self-dumping scow or barge, transportation to and deposition of material into the U.S. Army Corps of Engineers Craney Island Dredge Material Management Area (CIDMMA) Rehandling Basin.

1.4.2 Location

The work shall be located at the Norfolk Naval Shipyard, Portsmouth, VA, approximately as indicated in the contract drawings.

1.5 CONTRACT DRAWINGS

The following drawings accompany this specification and are a part thereof.

NAVFAC Drawing Nos. 12690961 to 12690964
Sheets 1 through 4

1.6 COMMENCEMENT OF WORK

Contractor shall mobilize all required equipment and personnel and commence dredging no later than 30 days after notice to proceed date.

1.7 WORK RESCHEDULING

Normal duty hours for work shall be 24 hours a day Sunday through Saturday. Contractor shall allow for downtime where construction activity is prohibitive as estimated in Section 00 41 00 Bid Schedule(s). Government shall notify Contractor 48 hours in advance as to any ship movements in the area dredging is being conducted.

A Port Security Barrier (PSB) system has been deployed which approximates the restricted area in the waters surrounding Norfolk Naval Shipyard. The Contractor shall notify and request Port Operations to move and replace this barrier each time the Contractor requires ingress or egress to the restricted area. The Contractor must notify Port Operations at least 72 hours in advance of any movement of the PSB. Norfolk Naval Shipyard has limited small boat operations during small craft warnings and between sunset and sunrise. Contractors should plan accordingly. For PSB transits to be conducted during normal waterfront hours (0700 to 1500 hours) notify Port Operations a minimum of 72 hours in advance. For PSB transits outside of normal working hours and on weekends notify Port Operations a minimum of five days in advance. For long term PSB opening requests (>1 hour) for approach dredging and relocation of dredging equipment, notify Port Operations a minimum of seven days in advance. Fuel barge deliveries transiting the PSB shall be scheduled a minimum of 72 hours in advance for notification to Port Operations.

1.8 PROJECT ENVIRONMENTAL GOALS

Contractor shall distribute copies of the Environmental Goals to each subcontractor and the Contracting Officer. The overall goal for design, construction, and operation is to produce an end product that meets the functional program needs and incorporates the principles of sustainability. Specifically:

- a. Preserve and restore the site ecosystem and biodiversity; avoid site degradation and erosion. Minimize offsite environmental impact.
- b. Use the minimum amount of energy, water, and materials feasible to meet the design intent. Select energy and water efficient equipment and strategies.
- c. Use environmentally preferable products and decrease toxicity level of materials used.

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- d. Use renewable energy and material resources.
- e. Manage construction site and storage of materials to ensure no negative impact on the environment.

PART 2 PRODUCTS

Not used.

PART 3 EXECUTION

Not used.

-- End of Section --

SECTION 01 14 00

WORK RESTRICTIONS

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PART 1 GENERAL

1.1 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for Contractor Quality Control approval. The following shall be submitted in accordance with Section 01 33 00 SUBMITTAL PROCEDURES:

SD-01 Predredging Submittals

Completed Special Access Determination (NAVSEA 5510/15); G

Pier parking authorization; G

List of Contact Personnel; G

Personnel List; G

Vehicle List; G

Radioactive Materials; G

Dredge Plans; G

Dredge plans to show progressive positioning of barges, scows, tender boats, etc

1.2 SPECIAL SCHEDULING REQUIREMENTS

- a. The piers and waterfront at Norfolk Naval Shipyard will remain in operation during the entire dredging period. The Contractor shall conduct his operations so as to cause the least possible interference with normal operations of the activity.
- b. Contractor shall coordinate with the Contracting Officer prior to start of dredging to determine order of work. The Government reserves the right to change the order of work at any time.
- c. Permission to interrupt any Activity roads, railroads, and/or utility service must be requested in writing a minimum of 15 calendar days prior to the desired date of interruption.
- d. The work under this contract requires special attention to the scheduling and conduct of the work in connection with existing operations. Identify on the construction schedule each factor which constitutes a potential interruption to operations.

The following conditions apply:

- (1) Existing Ship Movement
- (2) Maritime Traffic

1.3 CONTRACTOR ACCESS AND USE OF PREMISES

1.3.1 Activity Regulations

Ensure that Contractor personnel employed on the Activity become familiar with and obey Activity regulations including safety, fire, traffic and security regulations. Keep within the limits of the work and avenues of ingress and egress. Wear hard hats in designated areas. Do not enter any restricted areas unless required to do so and until cleared for such entry. Mark Contractor equipment for identification.

1.3.1.1 Subcontractors and Personnel Contacts

Provide a list of contact personnel of the Contractor and subcontractors including addresses and telephone numbers for use in the event of an emergency. As changes occur and additional information becomes available, correct and change the information contained in previous lists.

1.3.1.2 Identification Badges and Installation Access

Application for and use of badges will be as directed. Obtain access to the installation by participating in the Navy Commercial Access Control System (NCACS), or by obtaining passes each day from the Base Pass and Identification Office. Costs for obtaining passes through the NCACS are the responsibility of the Contractor. One-day passes, issued through the Base Pass and Identification Office, will be furnished without charge. Furnish a completed EMPLOYMENT ELIGIBILITY VERIFICATION (DHS FORM I-9) form for all personnel requesting badges. This form is available at <http://www.uscis.gov/portal/site/uscis> by searching or selecting Employment Verification (Form I-9). Immediately report instances of lost or stolen badges to the Contracting Officer.

- a. NCACS Program: NCACS is a voluntary program in which Contractor personnel who enroll, and are approved, are subsequently granted access to the installation for a period up to one year, or the length of the contract, whichever is less, and are not required to obtain a new pass from the Base Pass and Identification Office for each visit. The Government performs background screening and credentialing. Throughout the year the Contractor employee must continue to meet background screening standards. Periodic background screenings are conducted to verify continued NCACS participation and installation access privileges. Information on costs and requirements to participate and enroll in NCACS is available at <http://www.rapidgate.com> or by calling 1-877-727-4342. Contractors should be aware that the costs incurred to obtain NCACS credentials, or costs related to any means of access to a Navy Installation, are not reimbursable. Any time invested, or price(s) paid, for obtaining NCACS credentials will not be compensated in any way or approved as a direct cost of any contract with the Department of the Navy.

Delivery companies submitting NCACS applications must only be granted access if the prime Contractor has included the company on a participant's spreadsheet provided in advance to the Contracting Officer. This form must be provided by the Government upon request.

- b. One-Day Passes: Participation in the NCACS is not mandatory, and if the Contractor chooses to not participate, the Contractor's personnel will have to obtain daily passes, be subject to daily mandatory vehicle inspection, and will have limited access to the installation. The Government will not be responsible for any cost or lost time associated with obtaining daily passes or added vehicle inspections incurred by non-participants in the NCACS.

1.3.1.3 Personnel Entry Approval

Failure to obtain entry approval will not affect the contract price or time of completion.

1.3.1.4 No Smoking Policy

Smoking is prohibited within and outside of all buildings on installations under the cognizance of NAVFAC except in designated smoking areas. This applies to existing buildings, buildings under construction and buildings under renovation. Discarding tobacco materials other than into designated tobacco receptacles is considered littering and is subject to fines. The Contracting Officer will identify designated smoking areas.

1.3.2 Emergency Response Requirement

The Norfolk Naval Shipyard has instituted a requirement for all personnel to take shelter for personal safety in the event of certain emergencies. This policy includes Contractors, Subcontractors, and any person who is employed by the Contractor.

The most appropriate protective action for certain emergencies is to take shelter. Personnel shall immediately seek shelter while an assessment is made of the threat and determinations are being made regarding subsequent actions such as "all clear" or selected building evacuations. The following procedures have been put in place in the event of an emergent condition.

1. NOTIFICATION: The primary means of alerting personnel shall be emergency alert signals. The alerting signal to seek shelter shall be three steady tones that last for thirty seconds separated by ten seconds of silence. The notification for "all clear" shall be three short tones repeated three times.

2. SHELTERING: When personnel hear the alert signal, the area of work must be secured in a manner that will leave the site in a safe condition. Personnel shall seek shelter in the nearest occupied building in a calm and orderly manner. If possible, secure all windows and doors and shut off ventilation. If working aboard ship, proceed into the interior of the ship and wait for further directions from official personnel. If in a vehicle, park the vehicle so that it does not block the normally traveled portion of the road and proceed into the nearest occupied building.

3. EVACUATION: In the event of an evacuation, personnel shall receive directions from team members of the Crews Control Center (CCC) or the building custodian acting on the directions from the CCC. Contract personnel shall comply with instructions given at all times.

NNSY PERSONNEL NOTIFICATION: The Contractor shall instruct their personnel, including subcontractors assigned to a job within NNSY, upon witnessing flooding, fire, injury to personnel, or any other incident or

casualty requiring emergency response, to immediately contact all the below, providing the location and other pertinent details:

- a. Any NNSY Supervisor or Manager
- b. NNSY Fire Department dispatcher (396-3333)
- c. The Contracting Officer

1.3.2.1 Safety and Fire Protection Awareness

- a. Contractor personnel shall be made aware of emergency evacuation signals and best escape routes.
- b. All personnel shall comply with NAVFAC Fire Code requirements as stated in COMNAVREGMIDLANT 11320.11.
- c. Notify the Fire Department upon discovery of any discharge, regardless of the source.

1.3.3 Shipyard Regulations

Ensure that Contractor personnel employed on the Shipyard become familiar with and obey Shipyard regulations. Wear hard hats in designated areas. Do not enter any restricted areas unless required to do so and until cleared for such entry. The Contractor's equipment shall be conspicuously marked for identification. Comply with the following conditions:

- a. Restrict employees/representatives to the work site and control travel directly to and from the work site.
- b. Be responsible for control and security of Contractor-owned equipment and materials at the work site. Report immediately missing/lost/stolen property to the Shipyard Police Department (phone 396-7266) as each case occurs.
- c. Ensure that no material is stacked within 10 feet of the Controlled Industrial Area (CIA) perimeter. Remove from the work site, or secure ladders or other such equipment which could be used to climb the CIA perimeter fence. Ensure that no vehicles are parked within 10 feet of the CIA perimeter.
- d. Crane rails within Norfolk Naval Shipyard, including the yellow painted safety zones, shall not be blocked without the prior written approval of the Contracting Officer for each instance (place or time) of blockage.
- e. Contractors shall not enter the cafeterias in buildings 16, M-32, 202, 298, 435, 1436, and 1526 until after 1200 hours unless authorized work is to be performed.

1.3.4 Entry to Radiologically Controlled Areas

Entry to radiologically controlled areas for the purpose of facilities inspection, repair, alteration, or modification by Contractor personnel shall be effected only after notification in writing to the Contracting Officer by the Contractor at least 4 calendar days in advance of the need for such entry. Entry will be granted only after specification of appropriate radiological controls and personnel dosimetry requirements by

the Shipyard Radiological Control Office, Code 105. This paragraph applies to contract work on the shipyard, including pre-work inspections, investigations, construction, and post-work warranty adjustments, and for reentry following a stoppage of work for more than 7 calendar days during any phase of any such work. Radiation areas are posted within signs consistent with OSHA requirements. Radiation areas are marked with rectangular signs with yellow background and magenta (purplish shade of red) propeller shape color symbol and legend. These signs are usually posted on doors or hatches leading to radiation areas or secured to magenta and yellow colored ropes which mark the perimeters of radiation areas. Ensure that employees are familiar with the radiation signs and symbols.

1.4 SECURITY REQUIREMENTS

Contract Clause "FAR 52.204-2, Security Requirements and Alternate II," "FAC 5252.236-9301, Special Working Conditions and Entry to Work Area," and the following apply:

1.4.1 Norfolk Naval Shipyard, Portsmouth, VA

Contractor employees and representatives performing work under this contract are required to be United States Citizens. If naturalized, the individual shall present his naturalization papers to the Security Officer for inspection. Foreign born personnel shall present evidence of citizenship regardless of citizenship of parents, as required by immigration laws. Contractors and Contractor personnel shall be the subject of a local police records check. Contractor personnel who possess a security clearance issued by the Defense Industrial Security Clearance Office (DISCO) shall be issued a shipyard badge in the appropriate category. Each contractor employee shall be required at the time of issuance of a personnel badge to submit a signed Privacy Act Release Form, in duplicate, to complete the local police check. Requested information shall be furnished. Individuals who have felony convictions (e.g., murder, rape, drug offenses, or theft) or who are deemed untrustworthy by the Security Department, Norfolk Shipyard will be denied access to the shipyard and their personnel badge will be recalled.

1.4.1.1 Shipyard CIA and Sensitive Areas

All contractor or visitor personnel requesting access to the Controlled Industrial Area (CIA) will be required to view an orientation video prior to receiving a badge. The video is 20 minutes in length and includes radiological indoctrination training as well as security, environmental, safety and health issues.

Entry into the CIA for those listed with the Contracting Officer may be authorized under one of the following conditions.

- a. Contractors having a DOD Facility Security clearance and whose employees have a DOD security clearance may be badged for immediate unescorted access into the CIA.
- b. Employees and representatives having current Shipyard ID badges authorizing CIA access will be permitted entry into the CIA.
- c. Employees not holding a current DOD security clearance or current CIA access badge must establish suitability and eligibility prior to being badge for unescorted CIA access. Provide a Completed Special Access Determination (NAVSEA 5510/15) (Apr 90) for each employee.

- d. For situations other than the above, US citizens who are employees or representatives requiring a CIA access may be issued an "Escort Required" ("ER") pass for CIA access under the escort of a cleared individual employed by the activity. Processing of the "ER" passes may take up to 5 days.

- (1) The initial submittal of Visit Request forms need not be all inclusive. It may be expanded to meet essential requirements of the Contractor. Each individual added to the list, however, shall be subject to the same pre-entry screening requirements as outlined above.

- (2) Shipyard ID badge will be issued by the Shipyard pass and Identification Office (Pass and ID Office).

1.4.1.2 Shipyard Nuclear Buildings

Prior to commencement of work, the Contractor shall obtain a NNSY Code 2380 Building Permit from the Contracting Officer. A fourteen day notice is required prior to on-site work to coordinate a pre-job brief and obtain the building permit.

1.4.1.3 Vehicle Regulations in the Shipyard CIA

No vehicle will be permitted access to a work site in the CIA without a DOD vehicle sticker and a valid Shipyard vehicle pass. The Shipyard vehicle passes are issued by the Shipyard Pass and ID Office. Shipyard vehicle passes will not be issued unless a DOD vehicle sticker has been obtained and proof of vehicle registration to the Contractor's company has been presented to Shipyard Pass and ID. Vehicles are required to conform to Shipyard traffic regulations. The speed limit is 15 mph in the CIA. Outside the CIA, the speed limit is as posted or marked. No privately owned vehicles are allowed inside the CIA with the exceptions of handicap, CO/XO/CMC of ships.

- a. Only those Contractor vehicles meeting the following criteria will be allowed to enter the CIA with the Shipyard vehicle pass:

- (1) Vehicles must clearly display an authorized company sign or logo.

- (2) Vehicles must be company or commercial vehicles used to transport heavy equipment or material to the job site or to conduct bonafide and required inspections and surveillance at the job site. Privately owned vehicles will not be used to transport employees to the job site and will not be allowed in the CIA.

1.4.1.4 Commercial Vehicles

Vehicle passes will be issued to each commercial vehicle that is required for the job, authorizing entry and parking within the CIA. Every vehicle entering the CIA will display the pass on the dashboard or visor (facing outward). The pass will be visible at all times while in the CIA. Parking is limited to those areas that are specifically identified on the pass. If additional passes are required, present adequate justification to the Pass and ID Office via the Contracting Officer.

Contractor vehicles that enter the Controlled Industrial Area (CIA) will enter through Gate "F" only. Gate "F" is adjacent to building 369 and is open 0600-1800 weekdays. Contractor vehicles may use other open CIA gates

when Gate "F" is closed (backshifts and weekends).

1.4.1.5 Parking

Prohibited on any piers and drydock/waterfront areas. Do not park on or block the marked fire lanes or crane rail traveling zones (marked in yellow) at any time. Vehicles may stop on the piers or drydock/waterfront areas for 15 minutes for loading and unloading. An exception may be made for vehicles which are part of the equipment needed to do the required work and are attached or connected to the pier of ship; for example, a truck which uses a mounted generator or a vehicle with built-in equipment.

1.4.1.6 Vehicle Searches

Vehicles are subject to search while entering, remaining in, or leaving the Shipyard. Government material being transported out of the CIA shall be covered by a Property Pass (OP-7), issued and signed by the Security Officer. Material found without a Property Pass will be confiscated and a police officer offense report issued.

1.4.1.7 Escort

For entrance to and work inside any building inside the CIA, the cognizant Shipyard code will provide escort services in the affected area.

1.4.1.8 Areas Not Covered by Contract

Contractor personnel will not be permitted to enter Shipyard buildings, spaces, and areas not covered by this contract except on prior approval of the Shipyard department/office/shop having jurisdiction of the areas. Coordinate action with the Contracting Officer to obtain such entry approval.

1.4.1.9 Access to Unclassified Information

Access to unclassified U.S. Navy shipbuilding, conversion, or repair technology and related technical information manuals, documents, drawings, plans, specifications, and other unclassified information is restricted to official need-to-know basis, designated by physical markings to show the appropriate control designations. Handle, control, and safeguard to prevent oral, visual, and documentary disclosure to the public, to foreign sources, and to personnel not having an official need-to-know. Return this information to the naval Shipyard upon completion of contracted work, except when specific retention authorization is granted by the Contracting Officer's Security Representative.

1.4.1.10 Photographs

Unofficial photography is prohibited in the Naval Shipyard. When operationally required, submit a written request containing specific justification and details to the Security Officer prior to release.

PART 2 PRODUCTS

Not Used

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PART 3 EXECUTION

Not Used

-- End of Section --

SECTION 01 20 00.00 20

PRICE AND PAYMENT PROCEDURES

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PART 1 GENERAL

1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

U.S. ARMY CORPS OF ENGINEERS (USACE)

EP-1110-1-8 (2009) Construction Equipment Ownership
and Operating Expense Schedule

1.2 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for information only. The following shall be submitted in accordance with Section 01 33 00 SUBMITTAL PROCEDURES:

SD-01 Preconstruction Submittals

Schedule of Prices; G

1.3 SCHEDULE OF PRICES

1.3.1 Data Required

Within 15 calendar days of notice of award, prepare and deliver to the Contracting Officer a Schedule of Prices (construction contract) as directed by the Contracting Officer. Provide a detailed breakdown of the contract price, giving quantities for each of the various kinds of work, unit prices, and extended prices therefore in accordance with the bid schedule. Costs shall be summarized and totals provided for each construction category.

1.4 CONTRACT MODIFICATIONS

In conjunction with the Contract Clause "DFARS 252.236-7000, Modification Proposals-Price Breakdown," and where actual ownership and operating costs of construction equipment cannot be determined from Contractor accounting records, equipment use rates shall be based upon the applicable provisions of the EP-1110-1-8.

1.5 CONTRACTOR'S INVOICE AND CONTRACT PERFORMANCE STATEMENT

1.5.1 Content of Invoice

Requests for payment will be processed in accordance with the Contract Clause FAR 52.232-27, Prompt Payment Construction Contracts and FAR 52.232-5, Payments Under Fixed-Price Construction Contracts. The requests for payment shall include the documents listed below.

- a. The Contractor's invoice, on NAVFAC Form 7300/30 furnished by the Government, showing in summary form, the basis for arriving at the amount of the invoice. Form 7300/30 shall include certification by Quality Control (QC) Manager as required by the contract.
- b. The Estimate for Voucher/Contract Performance Statement on NAVFAC Form 7300/31 furnished by the Government, showing in detail: the estimated cost, percentage of completion, and value of completed performance. Use NAVFAC LANT Form 4-330/110 (New 7/84) on NAVFAC LANT contracts when a Monthly Estimate for Voucher is required.
- c. **Affidavit and Subcontractor Certification of Payment.**
- d. Updated Project Schedule and reports required by the contract.
- e. Contractor Safety Self Evaluation Checklist.
- f. Other supporting documents as requested.
- g. Updated copy of submittal register.
- h. Invoices not completed in accordance with contract requirements will be returned to the Contractor for correction of the deficiencies.

1.5.2 Submission of Invoices

If NFAS Clause 5252.232-9301 is included in the contract, the documents listed in paragraph "CONTENT OF INVOICE" shall be provided in their entirety as attachments in Wide Area Work Flow (WAWF) for each invoice submitted. The maximum size of each WAWF attachment is two megabytes, but there are no limits on the number of attachments. If a document cannot be attached in WAWF due to system or size restriction it shall be provided as instructed by the Contracting Officer.

1.5.3 Final Invoice

- a. A final invoice shall be accompanied by the certification required by DFARS 252.247.7023 TRANSPORTATION OF SUPPLIES BY SEA, and the Contractor's Final Release. If the Contractor is incorporated, the Final Release shall contain the corporate seal. An officer of the corporation shall sign and the corporate secretary shall certify the Final Release.
- b. For final invoices being submitted via WAWF, the original Contractor's Final Release Form and required certification of Transportation of Supplies by Sea must be provided directly to the respective Contracting Officer prior to submission of the final invoice. Once receipt of the original Final Release Form and required certification of Transportation of Supplies by Sea has been confirmed by the Contracting Officer, the Contractor shall then submit final invoice and attach a copy of the Final Release Form and required certification of Transportation of Supplies by Sea in WAWF.
- c. Final invoices not accompanied by the Contractor's Final Release and required certification of Transportation of Supplies by Sea will be considered incomplete and will be returned to the Contractor.

1.6 PAYMENTS TO THE CONTRACTOR

Payments will be made on submission of itemized requests by the Contractor which comply with the requirements of this section, and will be subject to

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reduction for overpayments or increase for underpayments made on previous payments to the Contractor.

1.6.1 Obligation of Government Payments

The obligation of the Government to make payments required under the provisions of this contract will, at the discretion of the Contracting Officer, be subject to reductions and/or suspensions permitted under the FAR and agency regulations including the following in accordance with "FAR 32.503-6:

- a. Reasonable deductions due to defects in material or workmanship;
- b. Claims which the Government may have against the Contractor under or in connection with this contract;
- c. Unless otherwise adjusted, repayment to the Government upon demand for overpayments made to the Contractor; and
- d. Failure to provide up to date record drawings not current as stated in Contract Clause "FAC 5252.236-9310, Record Drawings."

PART 2 PRODUCTS

Not Used

PART 3 EXECUTION

Not Used

-- End of Section --

SECTION 01 22 00.00 10

MEASUREMENT AND PAYMENT
04/06

PART 1 GENERAL

1.1 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for information only. When used, a designation following the "G" designation identifies the office that will review the submittal for the Government.

1.2 LUMP SUM PAYMENT ITEMS

Payment items for the work of this contract for which contract lump sum payments will be made are listed in the BIDDING SCHEDULE and described below. All costs for items of work, which are not specifically mentioned to be included in a particular lump sum or unit price payment item, shall be included in the listed lump sum item most closely associated with the work involved. The lump sum price and payment made for each item listed shall constitute full compensation for furnishing all plant, labor, materials, and equipment, and performing any associated Contractor quality control, environmental protection, meeting safety requirements, tests and reports, and for performing all work required for which separate payment is not otherwise provided.

1.2.1 Mobilization and Demobilization

1.2.1.1 Payment

Payment will be made for costs associated with mobilization and demobilization, as defined in Special Clause PAYMENT FOR MOBILIZATION AND DEMOBILIZATION.

1.2.1.2 Unit of Measure

Unit of measure: lump sum.

1.3 UNIT PRICE PAYMENT ITEMS

Payment items for the work of this contract on which the contract unit price payments will be made are listed in the BIDDING SCHEDULE and described below. The unit price and payment made for each item listed shall constitute full compensation for furnishing all plant, labor, materials, and equipment, and performing any associated Contractor quality control, environmental protection, meeting safety requirements, tests and reports, and for performing all work required for each of the unit price items.

1.3.1 Dredging and Disposal

1.3.1.1 Payment

Payment will be made for costs associated with bucket dredging, transportation and disposal of material in accordance with the drawings and

1371830 - FY15 Maintenance Dredging
Norfolk Naval Shipyard

specifications which includes performing required operations incidental thereto. Disposal tolls for use of the Craney Island Dredge Material Management Area (CIDMMA) are to be paid directly to the U.S. Army Corps of Engineers by the Government.

1.3.1.2 Measurement

The total quantity of dredged material for which payment occurs will be measured by computing the volume between the bottom surface shown by soundings of the last surveys made by the government before dredging, and the bottom surface shown by the soundings of surveys made by the government after the work has been completed. Allowance will be made for overdepth dredging as indicated on the contract drawings. No allowance will be made for the removal of any material outside the required slope lines or outside and beyond overdredge depths, unless authorized.

1.3.1.3 Unit of Measure

Unit of measure: cubic yard.

PART 2 PRODUCTS (Not Applicable)

PART 3 EXECUTION (Not Applicable)

-- End of Section --

SECTION 01 30 00

ADMINISTRATIVE REQUIREMENTS

11/11

PART 1 GENERAL

1.1 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for Contractor Quality Control approval. When used, a designation following the "G" designation identifies the office that will review the submittal for the Government. The following shall be submitted in accordance with Section 01 33 00 SUBMITTAL PROCEDURES:

SD-01 Preconstruction Submittals

List of contact personnel; G

Personnel list; G

Vehicle list; G

Statement of Acknowledgement Form SF 1413

1.2 MINIMUM INSURANCE REQUIREMENTS

Procure and maintain during the entire period of performance under this contract the following minimum insurance coverage:

- a. Comprehensive general liability: \$500,000 per occurrence
- b. Automobile liability: \$200,000 per person, \$500,000 per occurrence for bodily injury, \$20,000 per occurrence for property damage
- c. Workmen's compensation as required by Federal and State workers' compensation and occupational disease laws.
- d. Employer's liability coverage of \$100,000, except in States where workers compensation may not be written by private carriers,
- e. Others as required by State law.

1.3 SUPERVISION

Have at least one qualified supervisor capable of reading, writing, and conversing fluently in the English language on the job site during working hours. In addition, if a Quality Control (QC) representative is required on the contract, then that individual shall also have fluent English communication skills.

1.4 PRECONSTRUCTION CONFERENCE

After award of the contract but prior to commencement of any work at the site, meet with the Contracting Officer to discuss and develop a mutual understanding relative to the administration of the value engineering and safety program, preparation of the schedule of prices or earned value

report, shop drawings, and other submittals, scheduling programming, prosecution of the work, and clear expectations of the "Interim DD Form 1354" Submittal. Major subcontractors who will engage in the work shall also attend.

1.5 FACILITY TURNOVER PLANNING MEETINGS (NAVFAC Red Zone - NRZ)

Key personnel will meet to identify strategies to ensure the project is carried to expeditious closure and turnover to the Client. Start the turnover process at the Pre Construction Conference meeting and convene at the Facility Turnover Meetings once the project has reached approximately 75 percent completion or three to six months prior to Beneficial Occupancy Date (BOD), whichever comes first. The Contracting Officer's Representative will lead the meetings and guide discussions based on an agenda provided by the Government. The facility Turnover effort shall include the following:

- a. Pre Construction Meeting - Contracting Officer's Technical Representative (COTR) will provide the NRZ Checklist and the Contractor, Client, and NAVFAC Representatives will compare Contractor's schedule to NRZ Checklist items.
- b. Facility Turnover Meetings
 1. Fill in the NRZ Checklist including Contractor, Client, and NAVFAC Checklist Items and assign a person responsible for each item and a due date. The Contractor's Representative will facilitate the assignment of responsibilities, fill out the NRZ Checklist, and discuss "Interim DD Form 1354" requirements.
 2. Review the Contractor's updated schedule. The Contractor shall develop a POAM for the completion of all Contractor, Client, and NAVFAC Checklist items.
 3. Confirm that all NRZ Checklist items will be completed on time for the scheduled Facility Turnover.

1.6 AVAILABILITY OF CADD DRAWING FILES

After award and upon request, the electronic "Computer-Aided Drafting and Design (CADD)" drawing files will only be made available to the Contractor for use in preparation of construction data related to the referenced contract subject to the following terms and conditions. Request specific drawing numbers of files required; the entire set of drawing files will not be provided.

Data contained on these electronic files shall not be used for any purpose other than as a convenience in the preparation of construction data for the referenced project. Any other use or reuse shall be at the sole risk of the Contractor and without liability or legal exposure to the Government. The Contractor shall make no claim and waives to the fullest extent permitted by law, any claim or cause of action of any nature against the Government, its agents or sub consultants that may arise out of or in connection with the use of these electronic files. The Contractor shall, to the fullest extent permitted by law, indemnify and hold the Government harmless against all damages, liabilities or costs, including reasonable attorney's fees and defense costs, arising out of or resulting from the use of these electronic files.

These electronic CADD drawing files are not construction documents. Differences may exist between the CADD files and the corresponding construction documents. The Government makes no representation regarding the accuracy or completeness of the electronic CADD files, nor does it make representation to the compatibility of these files with the Contractors hardware or software. In the event that a conflict arises between the signed and sealed construction documents prepared by the Government and the furnished CADD files, the signed and sealed construction documents shall govern. The Contractor is responsible for determining if any conflict exists. Use of these CADD files does not relieve the Contractor of duty to fully comply with the contract documents, including and without limitation, the need to check, confirm and coordinate the work of all contractors for the project.

If the Contractor uses, duplicates and/or modifies these electronic CADD files for use in producing construction drawings and data related to this contract, all previous indicia of ownership (seals, logos, signatures, initials and dates) shall be removed.

1.7 ELECTRONIC MAIL (E-MAIL) ADDRESS

The Contractor shall establish and maintain electronic mail (e-mail) capability along with the capability to open various electronic attachments in Microsoft, Adobe Acrobat, and other similar formats. Within 10 days after contract award, the Contractor shall provide the Contracting Officer a single (only one) e-mail address for electronic communications from the Contracting Officer related to this contract including, but not limited to contract documents, invoice information, request for proposals, and other correspondence. The Contracting Officer may also use e-mail to notify the Contractor of base access conditions when emergency conditions warrant, such as hurricanes, terrorist threats, etc. Multiple e-mail address will not allowed.

It is the Contractor's responsibility to make timely distribution of all Contracting Officer initiated e-mail with its own organization including field office(s). The Contractor shall promptly notify the Contracting Officer, in writing, of any changes to this e-mail address.

PART 2 PRODUCTS

Not Used

PART 3 EXECUTION

Not Used

-- End of Section --

SECTION 01 32 01.00 10

PROJECT SCHEDULE
08/08

PART 1 GENERAL

1.1 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for information only. Submit the following in accordance with Section 01 33 00 SUBMITTAL PROCEDURES:

SD-01 Predredging Submittals

Project Schedule; G

1.2 QUALITY ASSURANCE

Designate an authorized representative to be responsible for the preparation of the schedule and all required updating (activity status) and preparation of reports. The authorized representative shall be experienced in scheduling projects similar in nature and complexity to this project and shall be experienced in the use of the scheduling software that meets the requirements of this specification.

PART 2 PRODUCTS (Not Applicable)

PART 3 EXECUTION

3.1 GENERAL REQUIREMENTS

Prepare for approval a Project Schedule, as specified herein, pursuant to the Contract Clause, SCHEDULE FOR CONSTRUCTION CONTRACTS. Show in the schedule the sequence in which the Contractor proposes to perform the work and dates on which the Contractor contemplates starting and completing all schedule activities. The scheduling of the entire project, including the design and dredging sequences, is required. The scheduling of dredging is the responsibility of the Contractor. Contractor management personnel shall actively participate in its development. Subcontractors and suppliers working on the project shall also contribute in developing and maintaining an accurate Project Schedule. Provide a schedule that is a forward planning as well as a project monitoring tool.

3.1.1 Approved Project Schedule

Use the approved Project Schedule to measure the progress of the work and to aid in evaluating time extensions. Make the schedule cost loaded and activity coded. The schedule will provide the basis for all progress payments. If the Contractor fails to submit any schedule within the time prescribed, the Contracting Officer may withhold approval of progress payments until the Contractor submits the required schedule.

3.1.2 Schedule Status Reports

Provide a Schedule Status Report on at least a monthly basis. If, in the opinion of the Contracting Officer, the Contractor falls behind the

approved schedule, the Contractor shall take steps necessary to improve its progress including those that may be required by the Contracting Officer, without additional cost to the Government. In this circumstance, the Contracting Officer may require the Contractor to increase the number of shifts, overtime operations, days of work, and/or the amount of dredging plant, and to submit for approval any supplementary schedule or schedules as the Contracting Officer deems necessary to demonstrate how the approved rate of progress will be regained.

3.1.3 Default Terms

Failure of the Contractor to comply with the requirements of the Contracting Officer shall be grounds for a determination, by the Contracting Officer, that the Contractor is not prosecuting the work with sufficient diligence to ensure completion within the time specified in the contract. Upon making this determination, the Contracting Officer may terminate the Contractor's right to proceed with the work, or any separable part of it, in accordance with the default terms of the contract.

3.2 BASIS FOR PAYMENT AND COST LOADING

Use the schedule as the basis for determining contract earnings during each update period and therefore the amount of each progress payment. Lack of an approved schedule update, or qualified scheduling personnel, will result in the inability of the Contracting Officer to evaluate contract earned value for the purposes of payment. In the event schedule revisions are directed by the Contracting Officer and those revisions have not been included in subsequent revisions or updates, the Contracting Officer may hold retainage up to the maximum allowed by contract, each payment period, until such revisions to the Project Schedule have been made. Activity cost loading shall be reasonable, as determined by the Contracting Officer.

3.3 PROJECT SCHEDULE DETAILED REQUIREMENTS

The computer software system utilized to produce and update the Project Schedule shall be capable of meeting all requirements of this specification. Failure of the Contractor to meet the requirements of this specification will result in the disapproval of the schedule.

3.3.1 Critical Path Method

Use the Critical Path Method (CPM) of network calculation to generate the Project Schedule. Prepare the Project Schedule using the Precedence Diagram Method (PDM).

3.3.2 Level of Detail Required

Develop the Project Schedule to an appropriate level of detail. Failure to develop the Project Schedule to an appropriate level of detail, as determined by the Contracting Officer, will result in its disapproval. The Contracting Officer will consider, but is not limited to, the following characteristics and requirements to determine appropriate level of detail:

3.3.2.1 Activity Durations

Reasonable activity durations are those that allow the progress of ongoing activities to be accurately determined between update periods. Less than 2 percent of all non-procurement activities shall have Original Durations (OD) greater than 20 work days or 30 calendar days. Procurement activities

are defined herein.

3.3.2.2 Procurement Activities

The schedule must include activities associated with the submittal, approval, procurement, fabrication and delivery of long lead materials, equipment, fabricated assemblies and supplies. Long lead procurement activities are those with an anticipated procurement sequence of over 90 calendar days. A typical procurement sequence includes the string of activities: submit, approve, procure, fabricate, and deliver.

3.3.2.3 Mandatory Tasks

The following tasks must be included and properly scheduled:

- a. Bucket dredging at Norfolk Naval Shipyard as indicated.
- b. Transportation to and disposal of all dredge spoils at the Rehandling Basin of the Craney Island Dredge Material Management Area (CIDMMA).
- c. Pre and Post dredge hydrographic surveys by Government.

3.3.2.4 Government Activities

Show Government and other agency activities that could impact progress. These activities include, but are not limited to: barge and plant layout approvals, inspections, utility tie-in and Notice to Proceed (NTP) for phasing requirements.

3.3.3 Scheduled Project Completion and Activity Calendars

The schedule interval shall extend from NTP date to the required contract completion date. The contract completion activity (End Project) shall finish based on the required contract duration in the accepted contract proposal, as adjusted for any approved contract time extensions. The first scheduled work period shall be the day after NTP is acknowledged by the Contractor. Schedule activities on a calendar to which the activity logically belongs. Activities may be assigned to a 7 day calendar when the contract assigns calendar day durations for the activity such as a Government Acceptance activity. If the Contractor intends to perform physical work less than seven days per week, schedule the associated activities on a calendar with non-work periods identified including weekends and holidays. Assign the Category of Work Code - Weather Sensitive Installation to those activities that are weather sensitive. Original durations must account for anticipated normal adverse weather. The Government will interpret all work periods not identified as non-work periods on each calendar as meaning the Contractor intends to perform work during those periods.

3.3.3.1 Project Start Date

The schedule shall start no earlier than the date on which the NTP was acknowledged. Include as the first activity in the project schedule an activity called "Start Project" (or NTP). The "Start Project" activity shall have an "ES" constraint date equal to the date that the NTP was acknowledged, and a zero day duration.

3.3.3.2 Schedule Constraints and Open Ended Logic

Constrain completion of the last activity in the schedule by the contract completion date. Schedule calculations shall result in a negative float when the calculated early finish date of the last activity is later than the contract completion date. Include as the last activity in the project schedule an activity called "End Project". The "End Project" activity shall have an "LF" constraint date equal to the contract completion date for the project, and with a zero day duration or by using the "project must finish by" date in the scheduling software. The schedule shall have no constrained dates other than those specified in the contract. The use of artificial float constraints such as "zero fee float" or "zero total float" are typically prohibited. There shall only be 2 open ended activities: Start Project (or NTP) with no predecessor logic and End Project with no successor logic.

3.3.3.3 Early Project Completion

In the event the Preliminary or Initial project schedule calculates an early completion date of the last activity prior to the contract completion date, the Contractor shall identify those activities that it intends to accelerate and/or those activities that are scheduled in parallel to support the Contractor's "early" completion. The last activity shall have a late finish constraint equal to the contract completion date and the schedule will calculate positive float. The Government will not approve an early completion schedule with zero float on the longest path. The Government is under no obligation to accelerate activities for which it is responsible to support a proposed early contract completion.

3.3.4 Interim Completion Dates

Constrain contractually specified interim completion dates to show negative float when the calculated early finish date of the last activity in that phase is later than the specified interim completion date.

3.3.4.1 Start Phase

Include as the first activity for a project phase an activity called "Start Phase X" where "X" refers to the phase of work. The "Start Phase X" activity shall have an "ES" constraint date equal to the date on which the NTP was acknowledged, and a zero day duration.

3.3.4.2 End Phase

Include as the last activity for a project phase an activity called "End Phase X" where "X" refers to the phase of work. The "End Phase X" activity shall have an "LF" constraint date equal to the specified completion date for that phase and a zero day duration.

3.3.5 Default Progress Data Disallowed

Do not automatically update Actual Start and Finish dates with default mechanisms that may be included in the scheduling software. Activity Actual Start (AS) and Actual Finish (AF) dates assigned during the updating process shall match those dates provided from Contractor Quality Control Reports. Failure of the Contractor to document the AS and AF dates on the Daily Quality Control report for every in-progress or completed activity, and failure to ensure that the data contained on the Daily Quality Control reports is the sole basis for schedule updating shall result in the

disapproval of the Contractor's updated schedule and the inability of the Contracting Officer to evaluate Contractor progress for payment purposes. Updating of the percent complete and the remaining duration of any activity shall be independent functions. Disable program features which calculate one of these parameters from the other.

3.3.6 Calculation Mode

Schedule calculations shall retain the logic between predecessors and successors even when the successor activity starts and the predecessor activity has not finished. Software features that in effect sever the tie between predecessor and successor activities when the successor has started and the predecessor logic is not satisfied ("progress override") will not be allowed.

3.3.7 Milestones

The schedule must include milestone activities for each significant project event.

3.4 PROJECT SCHEDULE SUBMISSIONS

Provide the submissions as described below. The data CD, reports, and network diagrams required for each submission are contained in paragraph SUBMISSION REQUIREMENTS.

3.4.1 Project Schedule Submission

Submit the Project Schedule, defining the Contractor's planned operations for the first 90 calendar days for approval within 15 calendar days after the NTP is acknowledged. The approved Project Schedule will be used for payment purposes not to exceed 90 calendar days after NTP. It may be summary in nature for the remaining performance period. It must be early start and late finish constrained and logically tied as previously specified. The Project Schedule must include all of the required Plan and Program preparations, submissions and approvals identified in the contract (for example, Quality Control Plan, Safety Plan, and Environmental Protection Plan) as well as other non-dredging activities intended to occur within the first 90 calendar days. Schedule any dredging activities planned for the first 90 calendar days after NTP. Constrain planned dredging activities by Government acceptance of the associated submittal and all other specified Program and Plan approvals.

3.5 SUBMISSION REQUIREMENTS

Submit the following items for the Preliminary Schedule, Initial Schedule, and every Periodic Schedule Update throughout the life of the project:

3.5.1 Data CD's

Provide two sets of data CD's containing the project schedule in the backup format. Each CD shall also contain all previous update backup files. File medium shall be CD. Label each CD, full contract number, Data Date and file name. Each schedule shall have a unique file name as determined by the Contractor.

3.5.2 Narrative Report

Provide a Narrative Report with the Project Schedule, as the basis of the

progress payment request. The Narrative Report shall include: a description of activities along the 2 most critical paths where the total float is less than or equal to 20 work days, a description of current and anticipated problem areas or delaying factors and their impact, and an explanation of corrective actions taken or required to be taken. The narrative report is expected to communicate to the Government, the Contractor's thorough analysis of the schedule output and its plans to compensate for any problems, either current or potential, which are revealed through that analysis. Identify and explain why any activities that, based their calculated late dates, should have either started or finished during the update period but did not.

-- End of Section --

SECTION 01 33 00

SUBMITTAL PROCEDURES

05/11

PART 1 GENERAL

1.1 DEFINITIONS

1.1.1 Submittal Descriptions (SD)

Submittals requirements are specified in the technical sections. Submittals are identified by Submittal Description (SD) numbers and titles as follows:

SD-02 Shop Drawings

Drawings, diagrams and schedules specifically prepared to illustrate some portion of the work.

Diagrams and instructions from a manufacturer or fabricator for use in producing the product and as aids to the Contractor for integrating the product or system into the project.

Drawings prepared by or for the Contractor to show how multiple systems and interdisciplinary work will be coordinated.

SD-06 Test Reports

Report signed by authorized official of testing laboratory that a material, product or system identical to the material, product or system to be provided has been tested in accord with specified requirements. (Testing must have been within three years of date of contract award for the project.)

Report which includes findings of a test required to be performed by the Contractor on an actual portion of the work or prototype prepared for the project before shipment to job site.

Report which includes finding of a test made at the job site or on sample taken from the job site, on portion of work during or after installation.

Investigation reports.

Daily logs and checklists.

Final acceptance test and operational test procedure.

SD-07 Certificates

Statements printed on the manufacturer's letterhead and signed by responsible officials of manufacturer of product, system or material attesting that product, system or material meets specification requirements. Must be dated after award of project contract and clearly name the project.

Document required of Contractor, or of a manufacturer, supplier,

installer or Subcontractor through Contractor, the purpose of which is to further quality of orderly progression of a portion of the work by documenting procedures, acceptability of methods or personnel qualifications.

Confined space entry permits.

Text of posted operating instructions.

SD-10 Operation and Maintenance Data

Data that is furnished by the manufacturer, or the system provider, to the equipment operating and maintenance personnel, including manufacturer's help and product line documentation necessary to maintain and install equipment. This data is needed by operating and maintenance personnel for the safe and efficient operation, maintenance and repair of the item.

This data is intended to be incorporated in an operations and maintenance manual or control system.

SD-11 Closeout Submittals

Documentation to record compliance with technical or administrative requirements or to establish an administrative mechanism.

Special requirements necessary to properly close out a construction contract. For example, Record Drawings and as-built drawings. Also, submittal requirements necessary to properly close out a major phase of construction on a multi-phase contract.

Interim "DD Form 1354" with cost breakout for all assets 30 days prior to facility turnover.

1.1.2 Approving Authority

Office or designated person authorized to approve submittal.

1.1.3 Work

As used in this section, on- and off-site construction required by contract documents, including labor necessary to produce submittals, construction, materials, products, equipment, and systems incorporated or to be incorporated in such construction.

1.2 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for information only. Submit the following in accordance with this section.

SD-01 Predredging Submittals

Submittal Register; G

1.3 FORWARDING SUBMITTALS REQUIRING GOVERNMENT APPROVAL

1.3.1 Submittals Required from the Contractor

As soon as practicable after award of contract, and before procurement of fabrication, forward to the Designer of Record, via the Contracting Officer.

1.4 PREPARATION

1.4.1 Transmittal Form

Transmit each submittal, except sample installations and sample panels to office of approving authority. Transmit submittals with transmittal form prescribed by Contracting Officer and standard for project. On the transmittal form identify Contractor, indicate date of submittal, and include information prescribed by transmittal form and required in paragraph entitled, "Identifying Submittals," of this section.

1.4.2 Identifying Submittals

When submittals are provided by a Subcontractor, the Prime Contractor is to prepare, review and stamp with Contractor's approval all specified submittals prior to submitting for Government approval.

Identify submittals, except sample installations and sample panels, with the following information permanently adhered to or noted on each separate component of each submittal and noted on transmittal form. Mark each copy of each submittal identically, with the following:

- a. Project title and location.
- b. Construction contract number.
- c. Date of the drawings and revisions.
- d. Name, address, and telephone number of subcontractor, supplier, manufacturer and any other subcontractor associated with the submittal.
- e. Section number of the specification section by which submittal is required.
- f. Submittal description (SD) number of each component of submittal.
- g. When a resubmission, add alphabetic suffix on submittal description, for example, submittal 18 would become 18A, to indicate resubmission.
- h. Product identification and location in project.

1.4.3 Format of SD-01 Predredging Submittals and SD-11 Closeout Submittals

When submittal includes a document which is to be used in project or become part of project record, other than as a submittal, do not apply Contractor's approval stamp to document, but to a separate sheet accompanying document.

1.5 QUANTITY OF SUBMITTALS

1.5.1 Number of Copies of SD-01 Predredging Submittals and SD-11 Closeout Submittals

Unless otherwise specified, submit three sets of administrative submittals.

1.6 VARIATIONS

Variations from contract requirements require both Designer of Record (DOR) and Government approval pursuant to contract Clause FAR 52.236-21 and will be considered where advantageous to Government.

1.6.1 Considering Variations

Discussion with Contracting Officer prior to submission, after consulting with the DOR, will help ensure functional and quality requirements are met and minimize rejections and re-submittals. When contemplating a variation which results in lower cost, consider submission of the variation as a Value Engineering Change Proposal (VECP).

Specifically point out variations from contract requirements in transmittal letters. Failure to point out deviations may result in the Government requiring rejection and removal of such work at no additional cost to the Government.

1.6.2 Proposing Variations

When proposing variation, deliver written request to the Contracting Officer, with documentation of the nature and features of the variation and why the variation is desirable and beneficial to Government, including the DOR's written analysis and approval. If lower cost is a benefit, also include an estimate of the cost savings. In addition to documentation required for variation, include the submittals required for the item. Clearly mark the proposed variation in all documentation.

1.6.3 Warranting That Variations Are Compatible

When delivering a variation for approval, Contractor, including its Designer(s) of Record, warrants that this contract has been reviewed to establish that the variation, if incorporated, will be compatible with other elements of work.

1.6.4 Review Schedule Is Modified

In addition to normal submittal review period, a period of 10 working days will be allowed for consideration by the Government of submittals with variations.

1.7 SUBMITTAL REGISTER

Prepare and maintain submittal register, as the work progresses. Do not change data which is output in columns (c), (d), (e), and (f) as delivered by Government; retain data which is output in columns (a), (g), (h), and (i) as approved. A submittal register showing items of equipment and materials for which submittals are required by the specifications is provided as an attachment. This list may not be all inclusive and additional submittals may be required. The Government will provide the initial submittal register with the following fields completed, to the

extent that will be required by the Government during subsequent usage.

Column (c): Lists specification section in which submittal is required.

Column (d): Lists each submittal description (SD No. and type, e.g. SD-02 Shop Drawings) required in each specification section.

Column (e): Lists one principal paragraph in specification section where a material or product is specified. This listing is only to facilitate locating submitted requirements. Do not consider entries in column (e) as limiting project requirements.

Column (f): Indicate approving authority for each submittal.

Thereafter, the Contractor is to track all submittals by maintaining a complete list, including completion of all data columns, including dates on which submittals are received and returned by the Government.

1.7.1 Use of Submittal Register

Submit submittal register. Submit with QC plan and project schedule. Verify that all submittals required for project are listed and add missing submittals. Coordinate and complete the following fields on the register submitted with the QC plan and the project schedule:

Column (a) Activity Number: Activity number from the project schedule.

Column (g) Contractor Submit Date: Scheduled date for approving authority to receive submittals.

Column (h) Contractor Approval Date: Date Contractor needs approval of submittal.

Column (i) Contractor Material: Date that Contractor needs material delivered to Contractor control.

1.7.2 Contractor Use of Submittal Register

Update the following fields in the Government-furnished submittal register program or equivalent fields in program utilized by Contractor with each submittal throughout contract.

Column (b) Transmittal Number: Contractor assigned list of consecutive numbers.

Column (j) Action Code (k): Date of action used to record Contractor's review when forwarding submittals to QC.

Column (l) List date of submittal transmission.

Column (q) List date approval received.

1.7.3 Approving Authority Use of Submittal Register

Update the following fields in the Government-furnished submittal register program or equivalent fields in program utilized by Contractor.

Column (b) Transmittal Number: Contractor assigned list of consecutive numbers.

Column (l) List date of submittal receipt.

Column (m) through (p) List Date related to review actions.

Column (q) List date returned to Contractor.

1.7.4 Action Codes

Entries for columns (j) and (o), are to be used as follows (others may be prescribed by Transmittal Form):

1.7.4.1 Government Review Action Codes

"A" - "Approved as submitted"; "Completed"

"B" - "Approved, except as noted on drawings"; "Completed"

"C" - "Approved, resubmission required"; "Resubmit"

"D" - "Returned by correspondence"; "Completed"

"E" - "Disapproved (See attached)"; "Resubmit"

"F" - "Receipt acknowledged"; "Completed"

"G" - "Other (Specify)"; "Resubmit"

"X" - "Receipt acknowledged, does not comply"; "Resubmit"

1.7.5 Copies Delivered to the Government

Deliver one copy of submittal register updated by Contractor to Government with each invoice request.

1.8 SCHEDULING

Schedule and submit concurrently submittals covering component items forming a system or items that are interrelated. Include certifications to be submitted with the pertinent drawings at the same time. No delay damages or time extensions will be allowed for time lost in late submittals.

- a. Coordinate scheduling, sequencing, preparing and processing of submittals with performance of work so that work will not be delayed by submittal processing. Allow for potential resubmittal of requirements.
- b. Submittals called for by the contract documents will be listed on the register. If a submittal is called for but does not pertain to the contract work, the Contractor is to include the submittal in the register and annotate it "N/A" with a brief explanation. Approval by the Contracting Officer does not relieve the Contractor of supplying submittals required by the contract documents but which have been omitted from the register or marked "N/A."
- c. Re-submit register and annotate monthly by the Contractor with actual submission and approval dates. When all items on the register have been fully approved, no further re-submittal is required.

- d. Carefully control procurement operations to ensure that each individual submittal is made on or before the Contractor scheduled submittal date shown on the approved "Submittal Register."
- e. Except as specified otherwise, allow review period, beginning with receipt by approving authority, that includes at least 15 working days for submittals for QC Manager approval and 20 working days for submittals for Contracting Officer approval. Period of review for submittals with Contracting Officer approval begins when Government receives submittal from QC organization.
- f. Period of review for each resubmittal is the same as for initial submittal.

1.8.1 Reviewing, Certifying, Approving Authority

The QC organization is responsible for reviewing and certifying that submittals are in compliance with contract requirements. Approving authority on submittals is QC Manager unless otherwise specified for specific submittal. At each "Submittal" paragraph in individual specification sections, a notation "G," following a submittal item, indicates Contracting Officer is approving authority for that submittal item.

1.8.2 Constraints

Conform to provisions of this section, unless explicitly stated otherwise for submittals listed or specified in this contract.

Submit complete submittals for each definable feature of work. Submit at the same time components of definable feature interrelated as a system.

When acceptability of a submittal is dependent on conditions, items, or materials included in separate subsequent submittals, submittal will be returned without review.

Approval of a separate material, product, or component does not imply approval of assembly in which item functions.

1.8.3 QC Organization Responsibilities

- a. Note date on which submittal was received from Contractor on each submittal.
- b. Review each submittal; and check and coordinate each submittal with requirements of work and contract documents.
- c. Review submittals for conformance with project design concepts and compliance with contract documents.
- d. Act on submittals, determining appropriate action based on QC organization's review of submittal.
 - (1) When QC Manager is approving authority, take appropriate action on submittal from the possible actions defined in paragraph entitled, "Approved/Accepted Submittals," of the section."
 - (2) When Contracting Officer is approving authority or when variation

has been proposed, forward submittal to Government with certifying statement or return submittal marked "not reviewed" or "revise and resubmit" as appropriate. The QC organization's review of submittal determines appropriate action.

- e. Ensure that material is clearly legible.
- f. Stamp each sheet of each submittal with QC certifying statement or approving statement, except that data submitted in bound volume or on one sheet printed on two sides may be stamped on the front of the first sheet only.

- (1) When approving authority is Contracting Officer, QC organization will certify submittals forwarded to Contracting Officer with the following certifying statement:

"I hereby certify that the (equipment) (material) (article) shown and marked in this submittal is that proposed to be incorporated with contract Number [____], is in compliance with the contract drawings and specification, can be installed in the allocated spaces, and is submitted for Government approval.

Certified by Submittal Reviewer _____, Date _____
(Signature when applicable)

Certified by QC Manager _____, Date _____"
(Signature)

- (2) When approving authority is QC Manager, QC Manager will use the following approval statement when returning submittals to Contractor as "Approved" or "Approved as Noted."

"I hereby certify that the (material) (equipment) (article) shown and marked in this submittal and proposed to be incorporated with contract Number [____], is in compliance with the contract drawings and specification, can be installed in the allocated spaces, and is approved for use.

Certified by Submittal Reviewer _____, Date _____
(Signature when applicable)

Approved by QC Manager _____, Date _____"
(Signature)

- g. Sign certifying statement or approval statement. The QC organization member designated in the approved QC plan is the person signing certifying statements. The use of original ink for signatures is required. Stamped signatures are not acceptable.
- h. Update submittal register as submittal actions occur and maintain the submittal register at project site until final acceptance of all work by Contracting Officer.
- i. Retain a copy of approved submittals at project site, including Contractor's copy of approved samples.

1.9 GOVERNMENT APPROVING AUTHORITY

When approving authority is Contracting Officer, the Government will:

- a. Note date on which submittal was received from QC Manager.
- b. Review submittals for approval within scheduling period specified and only for conformance with project design concepts and compliance with contract documents.
- c. Identify returned submittals with one of the actions defined in paragraph entitled, "Review Notations," of this section and with markings appropriate for action indicated.

Upon completion of review of submittals requiring Government approval, stamp and date approved submittals. Two copies of the approved submittal will be retained by the Contracting Officer and two copies of the submittal will be returned to the Contractor.

1.9.1 Review Notations

Contracting Officer review will be completed within 30 calendar days after date of submission. Submittals will be returned to the Contractor with the following notations:

- a. Submittals marked "approved" or "accepted" authorize the Contractor to proceed with the work covered.
- b. Submittals marked "approved as noted" "or approved except as noted, resubmittal not required," authorize the Contractor to proceed with the work covered provided he takes no exception to the corrections.
- c. Submittals marked "not approved" or "disapproved," or "revise and resubmit," indicate noncompliance with the contract requirements or design concept, or that submittal is incomplete. Resubmit with appropriate changes. No work shall proceed for this item until resubmittal is approved.
- d. Submittals marked "not reviewed" will indicate submittal has been previously reviewed and approved, is not required, does not have evidence of being reviewed and approved by Contractor, or is not complete. A submittal marked "not reviewed" will be returned with an explanation of the reason it is not reviewed. Resubmit submittals returned for lack of review by Contractor or for being incomplete, with appropriate action, coordination, or change.

1.10 DISAPPROVED OR REJECTED SUBMITTALS

Contractor shall make corrections required by the Contracting Officer. If the Contractor considers any correction or notation on the returned submittals to constitute a change to the contract drawings or specifications; notice as required under the clause entitled, "Changes," is to be given to the Contracting Officer. Contractor is responsible for the dimensions and design of connection details and construction of work. Failure to point out deviations may result in the Government requiring rejection and removal of such work at the Contractor's expense.

If changes are necessary to submittals, the Contractor shall make such revisions and submission of the submittals in accordance with the procedures above. No item of work requiring a submittal change is to be accomplished until the changed submittals are approved.

1.11 APPROVED/ACCEPTED SUBMITTALS

The Contracting Officer's approval or acceptance of submittals is not to be construed as a complete check, and indicates only that the general method of construction, materials, detailing and other information are satisfactory.

Approval or acceptance will not relieve the Contractor of the responsibility for any error which may exist, as the Contractor under the Contractor Quality Control (CQC) requirements of this contract is responsible for dimensions, the design of adequate connections and details, and the satisfactory construction of all work.

After submittals have been approved or accepted by the Contracting Officer, no resubmittal for the purpose of substituting materials or equipment will be considered unless accompanied by an explanation of why a substitution is necessary.

1.12 APPROVED SAMPLES

Approval of a sample is only for the characteristics or use named in such approval and is not to be construed to change or modify any contract requirements. Before submitting samples, the Contractor to assure that the materials or equipment will be available in quantities required in the project. No change or substitution will be permitted after a sample has been approved.

Match the approved samples for materials and equipment incorporated in the work. If requested, approved samples, including those which may be damaged in testing, will be returned to the Contractor, at his expense, upon completion of the contract. Samples not approved will also be returned to the Contractor at its expense, if so requested.

Failure of any materials to pass the specified tests will be sufficient cause for refusal to consider, under this contract, any further samples of the same brand or make of that material. Government reserves the right to disapprove any material or equipment which previously has proved unsatisfactory in service.

Samples of various materials or equipment delivered on the site or in place may be taken by the Contracting Officer for testing. Samples failing to meet contract requirements will automatically void previous approvals. Contractor to replace such materials or equipment to meet contract requirements.

Approval of the Contractor's samples by the Contracting Officer does not relieve the Contractor of his responsibilities under the contract.

PART 2 PRODUCTS

Not Used

PART 3 EXECUTION

Not Used

-- End of Section --

SUBMITTAL REGISTER

CONTRACT NO.

TITLE AND LOCATION
 FY15 MAINTENANCE DREDGING NORFOLK NAVAL SHIPYARD

CONTRACTOR

ACTIVITY NO	TRANSMITTAL NO	SPEC SECT	DESCRIPTION ITEM SUBMITTED	PARAGRAPH	GOVT CLASSIFICATION REVIEW	CONTRACTOR: SCHEDULE DATES			CONTRACTOR ACTION		APPROVING AUTHORITY				REMARKS		
						APPROVAL NEEDED BY	MATERIAL NEEDED BY	ACTION CODE	DATE OF ACTION	DATE FWD TO APPR AUTH/ DATE RCD FROM CONTR	DATE FWD TO OTHER REVIEWER	DATE RCD FROM OTH REVIEWER	ACTION CODE	DATE OF ACTION		MAILED TO CONTR/ DATE RCD FRM APPR AUTH	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
		01 14 00	SD-01 Preconstruction Submittals														
			Completed Special Access		G												
			Determination (NAVSEA 5510/15)														
			Pier parking authorization		G												
			List of Contact Personnel	1.3.1.1	G												
			Personnel List		G												
			Vehicle List		G												
			Radioactive Materials		G												
			Dredge Plans		G												
		01 20 00.00 20	SD-01 Preconstruction Submittals														
			Schedule of Prices	1.3	G												
		01 30 00	SD-01 Preconstruction Submittals														
			List of contact personnel		G												
			Personnel list		G												
			Vehicle list		G												
			Statement of Acknowledgement														
			Form SF 1413														
		01 32 01.00 10	SD-01 Preconstruction Submittals														
			Project Schedule	3.4	G												
		01 33 00	SD-01 Preconstruction Submittals														
			Submittal Register	1.7	G												
		01 35 26	SD-01 Preconstruction Submittals														
			Accident Prevention Plan (APP)	1.7	G												
			Activity Hazard Analysis (AHA)	1.8	G												
			Crane Critical Lift Plan	1.7.1	G												
			Crane Operators	1.6.1.2	G												

SUBMITTAL REGISTER

CONTRACT NO.

TITLE AND LOCATION						CONTRACTOR											
FY15 MAINTENANCE DREDGING NORFOLK NAVAL SHIPYARD																	
ACTIVITY NO	TRANSMITTAL NO	SPEC SECT	DESCRIPTION ITEM SUBMITTED	PARAGRAPH	GOVT CLASSIFICATION REVIEW	CONTRACTOR: SCHEDULE DATES			CONTRACTOR ACTION		APPROVING AUTHORITY					REMARKS	
						DATE FWD TO APPR AUTH/	DATE RCD FROM CONTR	DATE FWD TO OTHER REVIEWER	DATE RCD FROM OTH REVIEWER	DATE OF ACTION	DATE OF ACTION	DATE OF ACTION	DATE OF ACTION	DATE OF ACTION	DATE OF ACTION		
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
	01 35 26		SD-06 Test Reports														
			Notifications and Reports	1.12													
			Accident Reports	1.12.2													
			Crane Reports	1.12.3													
			SD-07 Certificates														
			License Certificates														
			Third Party Certification of Barge-Mounted Mobile Cranes Machinery & Mechanized Equipment Certification Form	1.12.5													
	01 35 40.00 20		SD-01 Preconstruction Submittals														
			Environmental Protection Plan	1.7	G												
			SD-07 Certificates														
			Environmental Regulatory Requirements	1.6													
			SD-11 Closeout Submittals														
			Training Program	1.8.3													
			Protection of Natural Resources	3.1													
	01 45 02		SD-01 Preconstruction Submittals														
			Dredging Quality Control (QC) Plan	1.6.1	G												
			SD-07 Certificates														
			CA Resume														
			SD-10 Operation and Maintenance														
			Data														
			Training Plan														

SECTION 01 35 26

GOVERNMENTAL SAFETY REQUIREMENTS
02/12

PART 1 GENERAL

1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

AMERICAN SOCIETY OF SAFETY ENGINEERS (ASSE/SAFE)

ASSE/SAFE A10.32	(2012) Fall Protection
ASSE/SAFE A10.34	(2001; R 2012) Protection of the Public on or Adjacent to Construction Sites
ASSE/SAFE Z359.1	(2007) Safety Requirements for Personal Fall Arrest Systems, Subsystems and Components

ASME INTERNATIONAL (ASME)

ASME B30.22	(2010) Articulating Boom Cranes
ASME B30.3	(2012) Tower Cranes
ASME B30.5	(2011) Mobile and Locomotive Cranes
ASME B30.8	(2010) Floating Cranes and Floating Derricks

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

NFPA 10	(2013) Standard for Portable Fire Extinguishers
NFPA 241	(2013) Standard for Safeguarding Construction, Alteration, and Demolition Operations
NFPA 70	(2014; AMD 1 2013; Errata 2013; AMD 2 2013) National Electrical Code
NFPA 70E	(2012; Errata 2012) Standard for Electrical Safety in the Workplace

U.S. ARMY CORPS OF ENGINEERS (USACE)

EM 385-1-1	(2008; Errata 1-2010; Changes 1-3 2010; Changes 4-6 2011; Change 7 2012) Safety and Health Requirements Manual
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U.S. NATIONAL ARCHIVES AND RECORDS ADMINISTRATION (NARA)

29 CFR 1919	Gear Certification
29 CFR 1926	Safety and Health Regulations for Construction
29 CFR 1926.1400	Cranes & Derricks in Construction
29 CFR 1926.16	Rules of Construction
29 CFR 1926.500	Fall Protection

U.S. NAVAL FACILITIES ENGINEERING COMMAND (NAVFAC)

NAVFAC P-307	(2009; Change 1 Mar 2011; Change 2 Aug 2011) Management of Weight Handling Equipment
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1.2 DEFINITIONS

- a. Competent Person for Fall Protection. A person who is capable of identifying hazardous or dangerous conditions in the personal fall arrest system or any component thereof, as well as their application and use with related equipment, and has the authority to take prompt corrective measures to eliminate the hazards of falling.
- b. High Visibility Accident. Any mishap which may generate publicity or high visibility.
- c. Medical Treatment. Treatment administered by a physician or by registered professional personnel under the standing orders of a physician. Medical treatment does not include first aid treatment even through provided by a physician or registered personnel.
- d. Operating Envelope. The area surrounding any crane. Inside this "envelope" is the crane, the operator, riggers and crane walkers, rigging gear between the hook and the load, the load and the crane's supporting structure (ground, rail, etc.).
- e. Recordable Injuries or Illnesses. Any work-related injury or illness that results in:
 - (1) Death, regardless of the time between the injury and death, or the length of the illness;
 - (2) Days away from work (any time lost after day of injury/illness onset);
 - (3) Restricted work;
 - (4) Transfer to another job;
 - (5) Medical treatment beyond first aid;
 - (6) Loss of consciousness; or
 - (7) A significant injury or illness diagnosed by a physician or other licensed health care professional, even if it did not result in

(1) through (6) above.

- f. "USACE" property and equipment specified in USACE EM 385-1-1 should be interpreted as Government property and equipment.
- g. Weight Handling Equipment (WHE) Accident. A WHE accident occurs when any one or more of the eight elements in the operating envelope fails to perform correctly during operation, including operation during maintenance or testing resulting in personnel injury or death; material or equipment damage; dropped load; derailment; two-blocking; overload; or collision, including unplanned contact between the load, crane, or other objects. A dropped load, derailment, two-blocking, overload and collision are considered accidents even though no material damage or injury occurs. A component failure (e.g., motor burnout, gear tooth failure, bearing failure) is not considered an accident solely due to material or equipment damage unless the component failure results in damage to other components (e.g., dropped boom, dropped load, roll over, etc.) Any mishap meeting the criteria described above shall be documented in both the Contractor Significant Incident Report (CSIR) and using the NAVFAC prescribed Navy Crane Center (NCC) form submitted within five days both as provided by the Contracting Officer. Comply with additional requirements and procedures for accidents in accordance with NAVFAC P-307, Section 12.

1.3 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for information only. Submit the following in accordance with Section 01 33 00 SUBMITTAL PROCEDURES:

SD-01 Preconstruction Submittals

- Accident Prevention Plan (APP); G
- Activity Hazard Analysis (AHA); G
- Crane Critical Lift Plan; G
- Proof of qualification for Crane Operators; G

SD-06 Test Reports

Notifications and Reports

Submit reports as their incidence occurs, in accordance with the requirements of the paragraph, "Notifications and Reports."

Accident Reports

Crane Reports

SD-07 Certificates

License Certificates
Third Party Certification of Barge-Mounted Mobile Cranes

Machinery & Mechanized Equipment Certification Form

1.4 CONTRACTOR SAFETY SELF-EVALUATION CHECKLIST

Contracting Officer will provide a "Contractor Safety Self-Evaluation checklist" to the Contractor at the pre-construction conference. Complete the checklist monthly and submit with each request for payment voucher. An acceptable score of 90 or greater is required. Failure to submit the completed safety self-evaluation checklist or achieve a score of at least 90 may result in retention of up to 10 percent of the voucher. Additionally, provide a Monthly Exposure Report and attach to the monthly billing request. This report is a compilation of employee-hours worked each month for all site workers, both prime and subcontractor. Failure to submit the report may result in retention of up to 10 percent of the voucher. The Contracting Officer will submit a copy of the Contractor Safety Self-Evaluation and Monthly Exposure Report to the local safety and occupational health office.

1.5 REGULATORY REQUIREMENTS

In addition to the detailed requirements included in the provisions of this contract, comply with the most recent edition of USACE EM 385-1-1, and the following federal, state, and local laws, ordinances, criteria, rules and regulations. Submit matters of interpretation of standards to the appropriate administrative agency for resolution before starting work. Where the requirements of this specification, applicable laws, criteria, ordinances, regulations, and referenced documents vary, the most stringent requirements govern.

1.6 SITE QUALIFICATIONS, DUTIES AND MEETINGS

1.6.1 Personnel Qualifications

1.6.1.1 Site Safety and Health Officer (SSHO)

The SSHO must meet the requirements of EM 385-1-1 section 1 and ensure that the requirements of 29 CFR 1926.16 are met for the project. Provide a Safety oversight team that includes a minimum of one (1) person at each project site to function as the Site Safety and Health Officer (SSHO). The SSHO or an equally-qualified Designated Representative/alternate shall be at the work site at all times to implement and administer the Contractor's safety program and government-accepted Accident Prevention Plan. The SSHO's training, experience, and qualifications shall be as required by EM 385-1-1 paragraph 01.A.17, entitled SITE SAFETY AND HEALTH OFFICER (SSHO), and all associated sub-paragraphs.

A Competent Person shall be provided for all of the hazards identified in the Contractor's Safety and Health Program in accordance with the accepted Accident Prevention Plan, and shall be on-site at all times when the work that presents the hazards associated with their professional expertise is being performed. Provide the credentials of the Competent Persons(s) to the the Contracting Officer for acceptance in consultation with the Safety Office.

1.6.1.1.1 Contractor Quality Control (QC) Person:

The Contractor Quality Control Person can be the SSHO on this project.

1.6.1.2 Crane Operators

Meet the crane operators requirements in USACE EM 385-1-1, Section 16 and

Appendix I. In addition, for mobile cranes with Original Equipment Manufacturer (OEM) rated capacities of 50,000 pounds or greater, designate crane operators as qualified by a source that qualifies crane operators (i.e., union, a government agency, or an organization that tests and qualifies crane operators). Provide proof of current qualification. In addition, the Contractor shall comply with Contractor Operated Crane Requirements included in the latest revision of document NAVFAC P-307 Section 1.7.2 "Contractor Operated Cranes," and Appendix P, Figure P-1 and with 29 CFR 1926, Subpart CC.

1.6.2 Personnel Duties

1.6.2.1 Site Safety and Health Officer (SSHO)

The SSHO shall:

- a. Conduct daily safety and health inspections and maintain a written log which includes area/operation inspected, date of inspection, identified hazards, recommended corrective actions, estimated and actual dates of corrections. Attach safety inspection logs to the Contractors' daily quality control report.
- b. Conduct mishap investigations and complete required reports. Maintain the OSHA Form 300 and Daily Production reports for prime and sub-contractors.
- c. Maintain applicable safety reference material on the job site.
- d. Attend the pre-construction conference, pre-work meetings including preparatory inspection meeting, and periodic in-progress meetings.
- e. Implement and enforce accepted APPS and AHAs.
- f. Maintain a safety and health deficiency tracking system that monitors outstanding deficiencies until resolution. Post a list of unresolved safety and health deficiencies on the safety bulletin board.
- g. Ensure sub-contractor compliance with safety and health requirements.
- h. Maintain a list of hazardous chemicals on site and their material safety data sheets.

Failure to perform the above duties will result in dismissal of the superintendent, QC Manager, and/or SSHO, and a project work stoppage. The project work stoppage will remain in effect pending approval of a suitable replacement.

1.6.3 Meetings

1.6.3.1 Preconstruction Conference

- a. Contractor representatives who have a responsibility or significant role in accident prevention on the project shall attend the preconstruction conference. This includes the project superintendent, site safety and health officer, quality control supervisor, or any other assigned safety and health professionals who participated in the development of the APP (including the Activity Hazard Analyses (AHAs) and special plans, program and procedures associated with it).

- b. Discuss the details of the submitted APP to include incorporated plans, programs, procedures and a listing of anticipated AHAs that will be developed and implemented during the performance of the contract. This list of proposed AHAs will be reviewed at the conference and an agreement will be reached between the Contractor and the Contracting Officer's representative as to which phases will require an analysis. In addition, establish a schedule for the preparation, submittal, review, and acceptance of AHAs to preclude project delays.
- c. Deficiencies in the submitted APP will be brought to the attention of the Contractor at the preconstruction conference, and the Contractor shall revise the plan to correct deficiencies and re-submit it for acceptance. Do not begin work until there is an accepted APP.

1.6.3.2 Safety Meetings

Conduct and document meetings as required by EM 385-1-1. Attach minutes showing contract title, signatures of attendees and a list of topics discussed to the Contractors' daily quality control report.

1.7 ACCIDENT PREVENTION PLAN (APP)

Use a qualified person to prepare the written site-specific APP. Prepare the APP in accordance with the format and requirements of USACE EM 385-1-1 and as supplemented herein. Cover all paragraph and subparagraph elements in USACE EM 385-1-1, Appendix A, "Minimum Basic Outline for Accident Prevention Plan". Specific requirements for some of the APP elements are described below. The APP shall be job-specific and address any unusual or unique aspects of the project or activity for which it is written. The APP shall interface with the Contractor's overall safety and health program. Include any portions of the Contractor's overall safety and health program referenced in the APP in the applicable APP element and made site-specific. The Government considers the Prime Contractor to be the "controlling authority" for all work site safety and health of the subcontractors. Contractors are responsible for informing their subcontractors of the safety provisions under the terms of the contract and the penalties for noncompliance, coordinating the work to prevent one craft from interfering with or creating hazardous working conditions for other crafts, and inspecting subcontractor operations to ensure that accident prevention responsibilities are being carried out. The APP shall be signed by the person and firm (senior person) preparing the APP, the Contractor, the on-site superintendent, the designated site safety and health officer, the Contractor Quality control Manager, and any designated CSP or CIH.

Submit the APP to the Contracting Officer 15 calendar days prior to the date of the preconstruction conference for acceptance. Work cannot proceed without an accepted APP.

Once accepted by the Contracting Officer, the APP and attachments will be enforced as part of the contract. Disregarding the provisions of this contract or the accepted APP will be cause for stopping of work, at the discretion of the Contracting Officer, until the matter has been rectified.

Once work begins, changes to the accepted APP shall be made with the knowledge and concurrence of the Contracting Officer, project superintendent, SSSO and quality control manager. Should any severe hazard exposure, i.e. imminent danger, become evident, stop work in the area, secure the area, and develop a plan to remove the exposure and control the hazard. Notify the Contracting Officer within 24 hours of discovery.

Eliminate/remove the hazard. In the interim, take all necessary action to restore and maintain safe working conditions in order to safeguard onsite personnel, visitors, the public (as defined by ASSE/SAFE A10.34,) and the environment.

Copies of the accepted plan will be maintained at the Contracting Officer's office and at the job site.

Continuously review and amend the APP, as necessary, throughout the life of the contract. Incorporate unusual or high-hazard activities not identified in the original APP as they are discovered.

1.7.1 EM 385-1-1 Contents

In addition to the requirements outlined in Appendix A of USACE EM 385-1-1, the following is required:

- a. Names and qualifications (resumes including education, training, experience and certifications) of all site safety and health personnel designated to perform work on this project to include the designated site safety and health officer and other competent and qualified personnel to be used such as CSPs, CIHs, STSS, CHSTs. Specify the duties of each position.
- b. Qualifications of competent and of qualified persons. As a minimum, designate and submit qualifications of competent persons for each of the following major areas: fall protection; personal protective equipment and clothing to include selection, use and maintenance.
- c. Crane Critical Lift Plan.

Prepare and sign weight handling critical lift plans for lifts over 75 percent of the capacity of the crane or hoist (or lifts over 50 percent of the capacity of a barge mounted mobile crane's hoists) at any radius of lift; lifts involving more than one crane or hoist; lifts of personnel; and lifts involving non-routine rigging or operation, sensitive equipment, or unusual safety risks. Submit 15 calendar days prior to on-site work and include the requirements of USACE EM 385-1-1, paragraph 16.H. and the following:

(1) For lifts of personnel, demonstrate compliance with the requirements of 29 CFR 1926.1400.

(2) For barge mounted mobile cranes, barge stability calculations identifying barge list and trim based on anticipated loading; and load charts based on calculated list and trim. The amount of list and trim shall be within the crane manufacturer's requirements.

- d. Fall Protection and Prevention (FP&P) Program Documentation. The program documentation shall be site specific and address all fall hazards in the work place and during different phases of construction. Address how to protect and prevent workers from falling to lower levels when they are exposed to fall hazards above 6 feet. A qualified person for fall protection shall prepare and sign the program documentation. Include fall protection and prevention systems, equipment and methods employed for every phase of work, responsibilities, assisted rescue, self-rescue and evacuation procedures, training requirements, and monitoring methods. Revise the Fall Protection and Prevention Program documentation every six months for lengthy projects, reflecting any changes during the course of construction due to changes in personnel,

equipment, systems or work habits. Keep and maintain the accepted Fall Protection and Prevention Program documentation at the job site for the duration of the project. Include the Fall Protection and Prevention Program documentation in the Accident Prevention Plan (APP).

The FP&P Plan shall include a Rescue and Evacuation Plan in accordance with USACE EM 385-1-1, Section 21.M. The plan shall include a detailed discussion of the following: methods of rescue; methods of self-rescue; equipment used; training requirement; specialized training for the rescuers; procedures for requesting rescue and medical assistance; and transportation routes to a medical facility. Include the Rescue and Evacuation Plan in the Fall Protection and Prevention (FP&P) Plan, and as part of the Accident Prevention Plan (APP).

1.8 ACTIVITY HAZARD ANALYSIS (AHA)

The Activity Hazard Analysis (AHA) format shall be in accordance with USACE EM 385-1-1, Section 1. Submit the AHA for review at least 15 calendar days prior to the start of each phase. Format subsequent AHAs as amendments to the APP. The analysis should be used during daily inspections to ensure the implementation and effectiveness of the activity's safety and health controls.

The AHA list will be reviewed periodically (at least monthly) at the Contractor supervisory safety meeting and updated as necessary when procedures, scheduling, or hazards change.

Develop the activity hazard analyses using the project schedule as the basis for the activities performed. Any activities listed on the project schedule will require an AHA. The AHAs will be developed by the contractor, supplier or subcontractor and provided to the prime contractor for submittal to the Contracting Officer.

1.9 DISPLAY OF SAFETY INFORMATION

Within one calendar day(s) after commencement of work, erect a safety bulletin board at the job site. Where size, duration, or logistics of project do not facilitate a bulletin board, an alternative method, acceptable to the Contracting Officer, that is accessible and includes all mandatory information for employee and visitor review, shall be deemed as meeting the requirement for a bulletin board. Include and maintain information on safety bulletin board as required by EM 385-1-1, section 01.A.06.

1.10 SITE SAFETY REFERENCE MATERIALS

Maintain safety-related references applicable to the project, including those listed in the article "References." Maintain applicable equipment manufacturer's manuals.

1.11 EMERGENCY MEDICAL TREATMENT

Contractors will arrange for their own emergency medical treatment. Government has no responsibility to provide emergency medical treatment.

1.12 NOTIFICATIONS and REPORTS

1.12.1 Accident Notification

Notify the Contracting Officer as soon as practical, but no more than four hours after any accident meeting the definition of Recordable Injuries or Illnesses or High Visibility Accidents, property damage equal to or greater than \$2,000, or any weight handling equipment accident. Within notification include contractor name; contract title; type of contract; name of activity, installation or location where accident occurred; date and time of accident; names of personnel injured; extent of property damage, if any; extent of injury, if known, and brief description of accident (to include type of construction equipment used, PPE used, etc.). Preserve the conditions and evidence on the accident site until the Government investigation team arrives on-site and Government investigation is conducted.

1.12.2 Accident Reports

- a. Conduct an accident investigation for recordable injuries and illnesses, for Medical Treatment defined in paragraph DEFINITIONS, property damage accidents resulting in at least \$20,000 in damages, and near misses as defined in EM 385-1-1, to establish the root cause(s) of the accident. Complete the applicable NAVFAC Contractor Incident Reporting System (CIRS), and electronically submit via the NAVFAC Enterprise Safety Applications Management System (ESAMS). The Contracting Officer will provide copies of any required or special forms.
- b. Near Misses: Complete the applicable documentation in NAVFAC Contractor Incident Reporting System (CIRS), and electronically submit via the NAVFAC Enterprise Safety Applications Management System (ESAMS).
- c. Conduct an accident investigation for any weight handling equipment accident (including rigging gear accidents) to establish the root cause(s) of the accident, complete the WHE Accident Report (Crane and Rigging Gear) form and provide the report to the Contracting Officer within 30 calendar days of the accident. Do not proceed with crane operations until cause is determined and corrective actions have been implemented to the satisfaction of the contracting officer. The Contracting Officer will provide a blank copy of the accident report form.

1.12.3 Crane Reports

Submit crane inspection reports required in accordance with USACE EM 385-1-1, Appendix I and as specified herein with Daily Reports of Inspections.

1.12.4 Certificate of Compliance

Provide a Certificate of Compliance for each crane entering an activity under this contract (see Contracting Officer for a blank certificate). State within the certificate that the crane and rigging gear meet applicable OSHA regulations (with the Contractor citing which OSHA regulations are applicable, e.g., cranes used in construction, demolition, or maintenance comply with 29 CFR 1926 and USACE EM 385-1-1 Section 16 and Appendix I. Certify on the Certificate of Compliance that the crane operator(s) is qualified and trained in the operation of the crane to be used. Also certify that all of its crane operators working on the DOD

activity have been trained in the proper use of all safety devices (e.g., anti-two block devices). Post certifications on the crane.

1.12.5 Third Party Certification of Barge-Mounted Mobile Cranes

Certify barge-mounted mobile cranes in accordance with 29 CFR 1919 by an OSHA accredited person.

1.13 SEVERE STORM PLAN

In the event of a severe storm warning, the Contractor must:

- a. Secure outside equipment and materials and place materials that could be damaged in protected areas.
- b. Check surrounding area, including roof, for loose material, equipment, debris, and other objects that could be blown away or against existing facilities.
- c. Ensure that temporary erosion controls are adequate.

PART 2 PRODUCTS

PART 3 EXECUTION

3.1 CONSTRUCTION AND OTHER WORK

Comply with USACE EM 385-1-1, NFPA 70, NFPA 70E, NFPA 241, the APP, the AHA, Federal and State OSHA regulations, and other related submittals and activity fire and safety regulations. The most stringent standard prevails.

PPE is governed in all areas by the nature of the work the employee is performing. Use personal hearing protection at all times in designated noise hazardous areas or when performing noise hazardous tasks. Safety glasses must be carried/available on each person.

Mandatory PPE includes:

- a. Hard Hat
- b. Appropriate Safety Shoes
- c. Reflective Vests

3.1.1 Unforeseen Hazardous Material

The design should have identified materials such as PCB, lead paint, and friable and non-friable asbestos and other OSHA regulated chemicals (i.e. 29 CFR Part 1910.1000). If additional material, not indicated, that may be hazardous to human health upon disturbance during construction operations is encountered, stop that portion of work and notify the Contracting Officer immediately. Within 14 calendar days the Government will determine if the material is hazardous. If material is not hazardous or poses no danger, the Government will direct the Contractor to proceed without change. If material is hazardous and handling of the material is necessary to accomplish the work, the Government will issue a modification pursuant to "FAR 52.243-4, Changes" and "FAR 52.236-2, Differing Site Conditions."

3.2 CONTROL OF HAZARDOUS ENERGY (LOCKOUT/TAGOUT)

Ensure that each employee is familiar with and complies with these procedures and USACE EM 385-1-1, Section 12, Control of Hazardous Energy.

3.3 FALL HAZARD PROTECTION AND PREVENTION PROGRAM

Establish a fall protection and prevention program, for the protection of all employees exposed to fall hazards. Within the program include company policy, identify responsibilities, education and training requirements, fall hazard identification, prevention and control measures, inspection, storage, care and maintenance of fall protection equipment and rescue and evacuation procedures in accordance with ASSE/SAFE Z359.1.

3.3.1 Training

Institute a fall protection training program. As part of the Fall Hazard Protection and Prevention Program, provide training for each employee who might be exposed to fall hazards. Provide training by a competent person for fall protection in accordance with USACE EM 385-1-1, Section 21.B.

3.3.2 Fall Protection Equipment and Systems

Enforce use of the fall protection equipment and systems designated for each specific work activity in the Fall Protection and Prevention Plan and/or AHA at all times when an employee is exposed to a fall hazard. Protect employees from fall hazards as specified in EM 385-1-1, Section 21. In addition to the required fall protection systems, safety skiff, personal floatation devices, life rings etc., are required when working above or next to water in accordance with USACE EM 385-1-1, Paragraphs 21.N through 21.N.04. Personal fall arrest systems are required when working from an articulating or extendible boom, swing stages, or suspended platform. In addition, personal fall arrest systems are required when operating other equipment such as scissor lifts if the work platform is capable of being positioned outside the wheelbase. The need for tying-off in such equipment is to prevent ejection of the employee from the equipment during raising, lowering, or travel. Fall protection must comply with 29 CFR 1926.500, Subpart M, USACE EM 385-1-1 and ASSE/SAFE A10.32.

3.3.2.1 Personal Fall Arrest Equipment

Personal fall arrest equipment, systems, subsystems, and components shall meet ASSE/SAFE Z359.1. Only a full-body harness with a shock-absorbing lanyard or self-retracting lanyard is an acceptable personal fall arrest body support device. Body belts may only be used as a positioning device system (for uses such as steel reinforcing assembly and in addition to an approved fall arrest system). Harnesses shall have a fall arrest attachment affixed to the body support (usually a Dorsal D-ring) and specifically designated for attachment to the rest of the system. Only locking snap hooks and carabiners shall be used. Webbing, straps, and ropes shall be made of synthetic fiber. The maximum free fall distance when using fall arrest equipment shall not exceed 6 feet. The total fall distance and any swinging of the worker (pendulum-like motion) that can occur during a fall shall always be taken into consideration when attaching a person to a fall arrest system.

3.3.3 Horizontal Lifelines

Design, install, certify and use under the supervision of a qualified

person horizontal lifelines for fall protection as part of a complete fall arrest system which maintains a safety factor of 2 (29 CFR 1926.500).

3.3.4 Guardrails and Safety Nets

Design, install and use guardrails and safety nets in accordance with EM 385-1-1 and 29 CFR 1926 Subpart M.

3.3.5 Rescue and Evacuation Procedures

When personal fall arrest systems are used, ensure that the mishap victim can self-rescue or can be rescued promptly should a fall occur. Prepare a Rescue and Evacuation Plan and include a detailed discussion of the following: methods of rescue; methods of self-rescue; equipment used; training requirement; specialized training for the rescuers; procedures for requesting rescue and medical assistance; and transportation routes to a medical facility. Include the Rescue and Evacuation Plan within the Activity Hazard Analysis (AHA) for the phase of work, in the Fall Protection and Prevention (FP&P) Plan, and the Accident Prevention Plan (APP).

3.4 SHIPYARD REQUIREMENTS

All personnel who enter the Controlled Industrial Area (CIA) shall wear mandatory personal protective equipment (PPE) at all times and comply with PPE postings of shops both inside and outside the CIA.

3.5 EQUIPMENT

3.5.1 Material Handling Equipment

- a. Material handling equipment such as forklifts shall not be modified with work platform attachments for supporting employees unless specifically delineated in the manufacturer's printed operating instructions.
- b. The use of hooks on equipment for lifting of material must be in accordance with manufacturer's printed instructions. Additionally, when material handling equipment is used as a crane it must meet NAVFAC P-307 requirements in Sections 1.7.2, "Contractor Operated Cranes," and 12, "Investigation and Reporting of Crane and Rigging Gear Accidents."
- c. Operators of forklifts or power industrial trucks shall be licensed in accordance with OSHA.

3.5.2 Weight Handling Equipment

- a. Equip cranes and derricks as specified in EM 385-1-1, section 16.
- b. Notify the Contracting Officer 15 days in advance of any cranes entering the activity so that necessary quality assurance spot checks can be coordinated. Contractor's operator shall remain with the crane during the spot check.
- c. Comply with the crane manufacturer's specifications and limitations for erection and operation of cranes and hoists used in support of the work. Perform erection under the supervision of a designated person (as defined in ASME B30.5). Perform all testing in accordance with the manufacturer's recommended procedures.

- d. Comply with ASME B30.5 for mobile and locomotive cranes, ASME B30.22 for articulating boom cranes, ASME B30.3 for construction tower cranes, and ASME B30.8 for floating cranes and floating derricks.
 - e. Under no circumstance shall a Contractor make a lift at or above 90 percent of the cranes rated capacity in any configuration.
 - f. When operating in the vicinity of overhead transmission lines, operators and riggers shall be alert to this special hazard and follow the requirements of USACE EM 385-1-1 Section 11, NAVFAC P-307 Figure 10-3 and ASME B30.5 or ASME B30.22 as applicable.
 - g. Do not crane suspended personnel work platforms (baskets) unless the Contractor proves that using any other access to the work location would provide a greater hazard to the workers or is impossible. Do not lift personnel with a line hoist or friction crane.
 - h. Inspect, maintain, and recharge portable fire extinguishers as specified in NFPA 10, Standard for Portable Fire Extinguishers.
 - i. All employees must keep clear of loads about to be lifted and of suspended loads.
 - j. Use cribbing when performing lifts on outriggers.
 - k. The crane hook/block must be positioned directly over the load. Side loading of the crane is prohibited.
 - l. A physical barricade must be positioned to prevent personnel from entering the counterweight swing (tail swing) area of the crane.
 - m. Certification records which include the date of inspection, signature of the person performing the inspection, and the serial number or other identifier of the crane that was inspected shall always be available for review by Contracting Officer personnel.
 - n. Written reports listing the load test procedures used along with any repairs or alterations performed on the crane shall be available for review by Contracting Officer personnel.
 - o. Certify that all crane operators have been trained in proper use of all safety devices (e.g. anti-two block devices).
 - p. Take steps to ensure that wind speed does not contribute to loss of control of the load during lifting operations. Prior to conducting lifting operations set a maximum wind speed at which a crane can be safely operated based on the equipment being used, the load being lifted, experience of operators and riggers, and hazards on the work site. This maximum wind speed determination shall be included as part of the activity hazard analysis plan for that operation.
- 3.5.3 Equipment and Mechanized Equipment
- a. Proof of qualifications for operator shall be kept on the project site for review.
 - b. Manufacture specifications or owner's manual for the equipment shall be on-site and reviewed for additional safety precautions or requirements

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that are sometimes not identified by OSHA or USACE EM 385-1-1.
Incorporate such additional safety precautions or requirements into the
AHAs.

3.6 ELECTRICAL

3.9.1 Portable Extension Cords

Size portable extension cords in accordance with manufacturer ratings for the tool to be powered and protected from damage. Immediately removed from service all damaged extension cords. Portable extension cords shall meet the requirements of EM 385-1-1, NFPA 70E, and OSHA electrical standards.

-- End of Section --

SECTION 01 35 40.00 20

ENVIRONMENTAL MANAGEMENT

02/10

PART 1 GENERAL

1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

ASTM INTERNATIONAL (ASTM)

ASTM D4840 (1999; R 2010) Sampling Chain-Of-Custody Procedures

ASTM E2114 (2008) Standard Terminology for Sustainability Relative to the Performance of Buildings

U.S. DEPARTMENT OF AGRICULTURE (USDA)

Biomass R&D Act (2000) Biomass Research and Development Act

U.S. Farm Bill (2002) U.S. Farm Bill of May 2002

U.S. ENVIRONMENTAL PROTECTION AGENCY (EPA)

NPDES (1972; R 2005) National Pollutant Discharge Elimination System

U.S. NATIONAL ARCHIVES AND RECORDS ADMINISTRATION (NARA)

40 CFR Protection of Environment

1.2 DEFINITIONS

Definitions pertaining to sustainable development are as defined in ASTM E2114 and as specified.

- a. "Biobased content" is calculated as the weight of the biobased material divided by the total weight of the product, and is expressed as a percentage by weight.
- b. "Biobased materials" include fuels, chemicals, building materials, or electric power or heat produced from biomass as defined by the Biomass R&D Act. Minimum biobased content shall be as defined in the U.S. Farm Bill.
- c. "Chain-of-custody" is a process whereby a product or material is maintained under the physical possession or control during its entire life cycle.
- d. "Pollution and environmental damage" is caused by the presence of chemical, physical, or biological elements or agents. Human health or welfare is adversely affected; ecological balances are unfavorably

altered; the utility of the environment for aesthetic, cultural, or historical purposes degrades.

1.3 PRECONSTRUCTION MEETING

After award of Contract and prior to commencement of the work, the Contractor shall schedule and conduct a meeting with the Contracting Officer to discuss the proposed Environmental Protection Plan and to develop a mutual understanding relative to the details of environmental protection. The requirements for this meeting may be fulfilled during the coordination and mutual understanding meeting as specified in Section 01 45 00.00 20 QUALITY CONTROL.

1.4 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for information only. The following shall be submitted in accordance with Section 01 33 00 SUBMITTAL PROCEDURES:

SD-01 Preconstruction Submittals

Environmental Protection Plan; G

SD-07 Certificates

Environmental Regulatory Requirements

For Government's records, submit copies of permits, licenses, certifications, inspection reports, releases, jurisdictional settlements, notices, receipts for fee payments, judgments, correspondence, records, and similar documents, established for compliance with environmental regulations bearing on performance of the work.

SD-11 Closeout Submittals

Training Program

Submit two copies of instructional program outline for demonstration and training, including a schedule of dates, times, length of instruction, instructors' names, learning objective, and teaching outline for each training module. At completion of training, submit one complete training manual[s] for Government's use, and a list of participants with each participant's results of performance-based test for each training module. For Government's records, submit Contractor 40 CFR employee training records upon request of the Contracting Officer.

Protection of Natural Resources

1.5 CONTRACTOR'S ENVIRONMENTAL MANAGER

Designate an on-site Environmental Manager responsible for overseeing the environmental goals for the project and implementing procedures for environmental protection.

1.5.1 Duties

The Environmental Manager shall be responsible for the following:

- a. Compliance with applicable federal, state, and local environmental regulations, including maintaining required documentation.
- b. Implementation of the Waste Management Plan.
- c. Implementation of the Indoor Air Quality (IAQ) Management Plan.
- d. Implementation of the Environmental Protection Plan.
- e. Environmental training for Contractor personnel in accordance with their position requirements.
- f. Monitoring and documentation of environmental procedures.

1.5.2 Qualifications

Minimum 5 years construction experience on projects of similar size and scope; minimum 2 years experience with environmental procedures similar to those of this project; familiarity with Environmental Management Systems (EMSs); familiarity with environmental regulations applicable to construction operations.

1.6 ENVIRONMENTAL REGULATORY REQUIREMENTS

The Contractor shall be responsible for knowing federal, state, and local regulatory requirements pertaining to legal disposal of all construction and demolition waste materials. Comply with all applicable regulations and maintain records of permits, licenses, certificates, and other environmental regulatory requirement correspondences.

1.7 ENVIRONMENTAL PROTECTION PLAN

Prepare and submit an Environmental Protection Plan not less than 10 days before the preconstruction meeting. At a minimum, address the following elements in accordance with this section:

- a. Identification and contact information for Environmental Manager.
- b. General site information, including preconstruction description and photographs.
- c. Summary of training program.
- d. Procedures to address water resources.
- e. Procedures to address land resources.
- f. Procedures to address air resources.
- g. Procedures to address fish and wildlife resources.
- h. Monitoring and quality control procedures.

Revise and resubmit Plan as required by the Contracting Officer. Approval of Contractor's Plan will not relieve the Contractor of responsibility for

compliance with applicable environmental regulations.

1.8 ENVIRONMENTAL DEMONSTRATION AND TRAINING

Contractor shall provide environmental training for workers performing work on the project site.

1.8.1 Instructor Qualifications

Training shall be given by a firm or individual experienced in providing training or education similar in content and extent to that indicated for this project.

1.8.2 Coordination

Coordinate instruction schedule with Government operations. Adjust schedule as required to minimize disruption of Government operations. Coordinate instruction with demonstration and training of general building systems.

1.8.3 Training Program

Develop a training program for all site workers that includes the following topics:

- a. Overview of environmental and sustainability issues related to the building industry.
- b. Overview of environmental and sustainability issues related to the project.
- c. Compliance with applicable federal, state, and local environmental regulations.
- d. Review of site specific procedures and management plans implemented during construction, including the Waste Management Plan, Indoor Air Quality (IAQ) Management Plan, Environmental Protection Plan, and procedures for noise and acoustics management.

1.8.3.1 Scheduling

Provide instruction at mutually agreeable time[s].

1.8.3.2 Training Modules

Develop a learning objective and teaching outline for each topic in the Training Program. Include a description of specific skills and knowledge that each participant is expected to acquire. Instructors shall be well-versed in the particular topics that they are presenting.

1.8.3.3 Evaluation

At the conclusion of each training module, assess and document each participant's understanding of the module by use of a written performance-based test.

PART 2 PRODUCTS

2.1 ENVIRONMENTALLY PREFERABLE PRODUCTS

Consider raw materials acquisition, production, manufacturing, packaging, distribution, reuse, operation, maintenance, and disposal of products, and provide products and materials with the least effect on the environment, determined by LCA analysis, released toxins, and other methods.

2.1.1 Prohibited Materials

The use of the following materials is prohibited:

- a. Products containing asbestos.
- b. Products containing urea formaldehyde.
- c. Products containing polychlorinated biphenyls.
- d. Products containing chlorinated fluorocarbons.
- e. Solder or flux containing more than 0.2 percent lead and domestic water pipe or pipe fittings containing more than 8 percent lead.
- f. Paint containing more than 0.06 percent lead.

2.1.2 Substitutions

Notify the Contracting Officer when Contractor is aware of materials, equipment, or products that meet the aesthetic and programmatic intent of Contract Documents, but which are more environmentally responsible than materials, equipment, or products specified or indicated in the Contract Documents. Submit the following for initial review by the Contracting Officer:

- a. Product data including manufacturer's name, address, and phone number.
- b. Description of environmental advantages of proposed substitution over specified product.

PART 3 EXECUTION

3.1 PROTECTION OF NATURAL RESOURCES

Comply with applicable regulations and these specifications. Preserve the natural resources within the project boundaries and outside the limits of permanent work performed under this Contract in their existing condition or restore to an equivalent or improved condition as approved by the Contracting Officer. Where violation of environmental procedures requirements will irreversibly damage the site, documentation of progress at 1 week intervals shall be required.

3.1.1 General Disturbance

Confine demolition and construction activities to work area limits indicated on the Drawings. Remove debris, rubbish, and other waste materials resulting from demolition and construction operations from site. Transport materials with appropriate vehicles and dispose of them off site to areas that are approved for disposal by governing authorities having

jurisdiction. Avoid spillage by covering and securing loads when hauling on or adjacent to public streets or highways. Remove spillage and sweep, wash, or otherwise clean project site, streets, or highways. Burning is prohibited.

3.1.2 Water Resources

Comply with requirements of the NPDES and the applicable State Pollutant Discharge Elimination System (SPDES). Prevent oily or other hazardous substances from entering the ground, drainage areas, or local bodies of water. Store and service construction equipment at areas designated for collection of oil wastes. Prevent ponding of stagnant water conducive to mosquito breeding habitat. Prevent run-off from site during demolition and construction operations.

3.1.3 Fish and Wildlife Resources

Manage and control construction activities to minimize interference with and damage to fish and wildlife. Do not disturb fish and wildlife. Do not alter water flows or otherwise significantly disturb the native habitat related to the project and critical to the survival of fish and wildlife, except as indicated or specified.

3.2 FIELD QUALITY CONTROL

Comply with requirements of agencies having jurisdiction and as specified herein. Provide field practices, shipping, and handling of samples in accordance with ASTM D4840. Provide Field Quality Control Reports in accordance with approved Environmental Protection Plan.

-- End of Section --

SECTION 01 42 00

SOURCES FOR REFERENCE PUBLICATIONS

11/14

PART 1 GENERAL

1.1 REFERENCES

Various publications are referenced in other sections of the specifications to establish requirements for the work. These references are identified in each section by document number, date and title. The document number used in the citation is the number assigned by the standards producing organization (e.g. ASTM B564 Standard Specification for Nickel Alloy Forgings). However, when the standards producing organization has not assigned a number to a document, an identifying number has been assigned for reference purposes.

1.2 ORDERING INFORMATION

The addresses of the standards publishing organizations whose documents are referenced in other sections of these specifications are listed below, and if the source of the publications is different from the address of the sponsoring organization, that information is also provided. Documents listed in the specifications with numbers which were not assigned by the standards producing organization should be ordered from the source by title rather than by number.

AMERICAN SOCIETY OF SAFETY ENGINEERS (ASSE/SAFE)
1800 East Oakton Street
Des Plaines, IL 60018
Ph: 847-699-2929
Internet: <http://www.asse.org>

ASME INTERNATIONAL (ASME)
Two Park Avenue, M/S 10E
New York, NY 10016-5990
Ph: 800-843-2763
Fax: 973-882-1717
E-mail: customercare@asme.org
Internet: <http://www.asme.org>

ASTM INTERNATIONAL (ASTM)
100 Barr Harbor Drive, P.O. Box C700
West Conshohocken, PA 19428-2959
Ph: 877-909-2786
Internet: <http://www.astm.org>

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)
1 Batterymarch Park
Quincy, MA 02169-7471
Ph: 617-770-3000
Fax: 617-770-0700
Internet: <http://www.nfpa.org>

U.S. ARMY CORPS OF ENGINEERS (USACE)
CRD-C DOCUMENTS available on Internet:

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http://www.wbdg.org/ccb/browse_cat.php?c=68

Order Other Documents from:

USACE Publications Depot

Attn: CEHEC-IM-PD

2803 52nd Avenue

Hyattsville, MD 20781-1102

Ph: 301-394-0081

Fax: 301-394-0084

E-mail: pubs-army@usace.army.mil

Internet: <http://www.publications.usace.army.mil/>

or

<http://www.hnc.usace.army.mil/Missions/Engineering/TECHINFO.aspx>

U.S. DEPARTMENT OF AGRICULTURE (USDA)

Order AMS Publications from:

AGRICULTURAL MARKETING SERVICE (AMS)

Seed Regulatory and Testing Branch

801 Summit Crossing Place, Suite C

Gastonia, NC 28054-2193

Ph: 704-810-8871

Fax: 704-852-4189

E-mail: seed.ams@usda.gov

Internet: <http://www.ams.usda.gov/lsg/seed.htm>

Order Other Publications from:

U.S. Department of Agriculture, Rural Utilities Program

USDA Rural Development, Room 4051-S

Mail Stop 1510

1400 Independence Avenue SW

Washington, DC 20250-1510

Phone: (202) 720-9540

TTY: (800) 877-8339 (Federal Relay Service)

Fax: (202) 720-1725

Internet: http://www.rurdev.usda.gov/utilities_lp.html

U.S. ENVIRONMENTAL PROTECTION AGENCY (EPA)

Ariel Rios Building

1200 Pennsylvania Avenue, N.W.

Washington, DC 20004

Ph: 202-272-0167

Internet: <http://www2.epa.gov/libraries>

--- Some EPA documents are available only from:

National Technical Information Service (NTIS)

5301 Shawnee Road

Alexandria, VA 22312

Ph: 703-605-6050 or 1-688-584-8332

Fax: 703-605-6900

E-mail: info@ntis.gov

Internet: <http://www.ntis.gov>

U.S. NATIONAL ARCHIVES AND RECORDS ADMINISTRATION (NARA)

8601 Adelphi Road

College Park, MD 20740-6001

Ph: 866-272-6272

Fax: 301-837-0483

Internet: <http://www.archives.gov>

Order documents from:

Superintendent of Documents

U.S. Government Printing Office (GPO)

710 North Capitol Street, NW

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Washington, DC 20401
Ph: 202-512-1800
Fax: 202-512-2104
E-mail: contactcenter@gpo.gov
Internet: <http://www.gpoaccess.gov>

U.S. NAVAL FACILITIES ENGINEERING COMMAND (NAVFAC)
1322 Patterson Ave. SE, Suite 1000
Washington Navy Yard, DC 20374-5065
Ph: 202-685-9387
Internet: <http://www.navfac.navy.mil>

PART 2 PRODUCTS

Not used

PART 3 EXECUTION

Not used

-- End of Section --

SECTION 01 45 02

NAVFAC QUALITY CONTROL
11/08

PART 1 GENERAL

1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by the basic designation only.

U.S. ARMY CORPS OF ENGINEERS (USACE)

EM 385-1-1 (2003) Safety -- Safety and Health
Requirements

1.2 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for information only. Submit the following in accordance with Section 01 33 00 SUBMITTAL PROCEDURES

SD-01 Predredging Submittals

Dredging Quality Control (QC) Plan; G

Submit a Dredging QC Plan prior to start of dredging.

SD-07 Certificates

CA Resume

SD-10 Operation and Maintenance Data

Training Plan

For each training session submit dates, start and finish times, and locations; outline of the information to be presented; names and qualifications of the presenters; and list of texts and other materials required to support training.

1.3 INFORMATION FOR THE CONTRACTING OFFICER

Prior to commencing work on dredging, the Contractor can obtain a single copy set of the current report forms from the Contracting Officer. The report forms will consist of the Contractor Production Report, Contractor Production Report (Continuation Sheet), Contractor Quality Control (CQC) Report, (CQC) Report (Continuation Sheet), Preparatory Phase Checklist, Initial Phase Checklist, Rework Items List, and Testing Plan and Log.

Deliver the following to the Contracting Officer during dredging:

- a. CQC Report: Submit the report electronically by 10:00 AM the next working day after each day that work is performed and for every seven consecutive calendar days of no-work.

- b. Contractor Production Report: Submit the report electronically by 10:00 AM the next working day after each day that work is performed and for every seven consecutive calendar days of no-work.
- c. Preparatory Phase Checklist: Submit the report electronically in the same manner as the CQC Report for each Preparatory Phase held.
- d. Initial Phase Checklist: Submit the report electronically in the same manner as the CQC Report for each Initial Phase held. Original attached to the original CQC Report and one copy attached to each QC Report copy.
- e. Field Test Reports: Within two working days after the test is performed, submit the report as an electronic attachment to the CQC Report.
- f. Testing Plan and Log: Submit the report as an electronic attachment to the CQC Report, at the end of each month. A copy of the final Testing Plan and Log shall be provided to the OMSI preparer for inclusion into the OMSI documentation.
- g. Rework Items List: Submit lists containing new entries daily, in the same manner as the CQC Report.
- h. CQC Meeting Minutes: Within two working days after the meeting is held, submit the report as an electronic attachment to the CQC Report.
- i. QC Certifications: As required by the paragraph entitled "QC Certifications."

1.4 QC PROGRAM REQUIREMENTS

Establish and maintain a QC program as described in this section. This QC program is a key element in meeting the objectives of NAVFAC Commissioning. The QC program consists of a QC Organization, QC Plan, QC Plan Meeting(s), a Coordination and Mutual Understanding Meeting, QC meetings, three phases of control, submittal review and approval, testing, completion inspections, and QC certifications and documentation necessary to provide materials, equipment, workmanship, fabrication, dredging and operations which comply with the requirements of this Contract. The QC program must cover on-site and off-site work and be keyed to the work sequence. No dredging work or testing may be performed unless the QC Manager is on the work site. The QC Manager must report to an officer of the firm and not be subordinate to the Project Superintendent or the Project Manager. The QC Manager, Project Superintendent and Project Manager must work together effectively. Although the QC Manager is the primary individual responsible for quality control, all individuals will be held responsible for the quality of work on the job.

1.4.1 Acceptance of the Dredging Quality Control (QC) Plan

Acceptance of the QC Plan is required prior to the start of dredging. The Contracting Officer reserves the right to require changes in the QC Plan and operations as necessary, including removal of personnel, to ensure the specified quality of work. The Contracting Officer reserves the right to interview any member of the QC organization at any time in order to verify the submitted qualifications. All QC organization personnel are subject to

acceptance by the Contracting Officer. The Contracting Officer may require the removal of any individual for non-compliance with quality requirements specified in the Contract.

1.4.2 Preliminary Dredging Work Authorized Prior to Acceptance

The only dredging work that is authorized to proceed prior to the acceptance of the QC Plan is mobilization of storage and office trailers, temporary utilities, and surveying.

1.4.3 Notification of Changes

Notify the Contracting Officer, in writing, of any proposed changes in the QC Plan or changes to the QC organization personnel, a minimum of 10 work days prior to a proposed change. Proposed changes are subject to acceptance by the Contracting Officer.

1.5 QC ORGANIZATION

1.5.1 QC Manager

1.5.1.1 Duties

Provide a QC Manager at the work site to implement and manage the QC program. The QC Manager is required to attend the partnering meetings, QC Plan Meetings, Coordination and Mutual Understanding Meeting, conduct the QC meetings, perform the three phases of control, perform submittal review and approval, ensure testing is performed and provide QC certifications and documentation required in this Contract. The QC Manager is responsible for managing and coordinating the three phases of control and documentation performed by testing laboratory personnel and any other inspection and testing personnel required by this Contract. The QC Manager is the manager of all QC activities.

1.5.1.2 Qualifications

An individual with a minimum of 5 years combined experience in the following positions: Project Superintendent, QC Manager, Project Manager, Project Engineer or Construction Manager on similar size and type dredging contracts which included the major trades that are part of this Contract. The individual must have at least two years experience as a QC Manager. The individual must be familiar with the requirements of EM 385-1-1, and have experience in the areas of hazard identification, safety compliance, and sustainability.

1.5.2 Construction Quality Management Training

In addition to the above experience and education requirements, the QC Manager must have completed the course entitled "Construction Quality Management (CQM) for Contractors." If the QC Manager does not have a current certification, they must obtain the CQM for Contractors course certification within 90 days of award. This course is periodically offered by the Naval Facilities Engineering Command and the Army Corps of Engineers. Contact the Contracting Officer for information on the next scheduled class.

1.5.3 Alternate QC Manager Duties and Qualifications

Designate an alternate for the QC Manager at the work site to serve in the

event of the designated QC Manager's absence. The period of absence may not exceed two weeks at one time, and not more than 30 workdays during a calendar year. The qualification requirements for the Alternate QC Manager must be the same as for the QC Manager.

1.6 QUALITY CONTROL (QC) PLAN

1.6.1 Dredging Quality Control (QC) Plan

1.6.1.1 Requirements

Provide, for acceptance by the Contracting Officer, a Construction QC Plan submitted in a three-ring binder that includes a table of contents, with major sections identified with tabs, with pages numbered sequentially, and that documents the proposed methods and responsibilities for accomplishing commissioning activities during the dredging of the project:

- a. QC ORGANIZATION: A chart showing the QC organizational structure.
- b. NAMES AND QUALIFICATIONS: Names and qualifications, in resume format, for each person in the QC organization. Include the CQM for Contractors course certifications for the QC Manager and Alternate QC Manager as required by the paragraphs entitled "Construction Quality Management Training" and "Alternate QC Manager Duties and Qualifications".
- c. DUTIES, RESPONSIBILITY AND AUTHORITY OF QC PERSONNEL: Duties, responsibilities, and authorities of each person in the QC organization.
- d. OUTSIDE ORGANIZATIONS: A listing of outside organizations, such as architectural and consulting engineering firms, that will be employed by the Contractor and a description of the services these firms will provide.
- e. APPOINTMENT LETTERS: Letters signed by an officer of the firm appointing the QC Manager and Alternate QC Manager and stating that they are responsible for implementing and managing the QC program as described in this Contract. Include in this letter the responsibility of the QC Manager and Alternate QC Manager to implement and manage the three phases of control, and their authority to stop work which is not in compliance with the Contract. Letters of direction are to be issued by the QC Manager to all other outlining their duties, authorities, and responsibilities. Include copies of the letters in the QC Plan.
- f. SUBMITTAL PROCEDURES AND INITIAL SUBMITTAL REGISTER: Procedures for reviewing, approving, and managing submittals. Provide the name(s) of the person(s) in the QC organization authorized to review and certify submittals prior to approval. Provide the initial submittal of the Submittal Register as specified in Section 01 33 00 SUBMITTAL PROCEDURES.
- g. TESTING LABORATORY INFORMATION: Testing laboratory information required by the paragraphs entitled "Accreditation Requirements", as applicable.
- h. TESTING PLAN AND LOG: A Testing Plan and Log that includes the tests required, referenced by the specification paragraph number

requiring the test, the frequency, and the person responsible for each test. Use Government forms to log and track tests.

- i. PROCEDURES TO COMPLETE REWORK ITEMS: Procedures to identify, record, track, and complete rework items. Use Government forms to record and track rework items.
- j. DOCUMENTATION PROCEDURES: Use Government form.
- k. LIST OF DEFINABLE FEATURES: A Definable Feature of Work (DFOW) is a task that is separate and distinct from other tasks and has control requirements and work crews unique to that task. A DFOW is identified by different trades or disciplines and is an item or activity on the dredging schedule. Include in the list of DFOWs, but not be limited to, all critical path activities on the NAS. Include all activities for which this specification requires or specialty inspection personnel. Provide separate DFOWs in the Network Analysis Schedule for each design development stage and submittal package.
- l. PROCEDURES FOR PERFORMING THE THREE PHASES OF CONTROL: Identify procedures used to ensure the three phases of control to manage the quality on this project. For each DFOW, a Preparatory and Initial phase checklist will be filled out during the Preparatory and Initial phase meetings. Conduct the Preparatory and Initial Phases and meetings with a view towards obtaining quality dredging by planning ahead and identifying potential problems for each DFOW.
- m. PERSONNEL MATRIX: Not Applicable
- n. PROCEDURES FOR COMPLETION INSPECTION: Procedures for identifying and documenting the completion inspection process. Include in these procedures the responsible party for punch out inspection, pre-final inspection, and final acceptance inspection.
- o. ORGANIZATION AND PERSONNEL CERTIFICATIONS LOG: Procedures for coordinating, tracking and documenting all certifications on subcontractors, testing laboratories, suppliers, personnel, etc. QC Manager will ensure that certifications are current, appropriate for the work being performed, and will not lapse during any period of the contract that the work is being performed.

1.7 QC PLAN MEETINGS

At the discretion of the FEAD/ROICC and prior to submission of the QC Plan, the QC Manager will meet with the Contracting Officer to discuss the QC Plan requirements of this Contract. The purpose of this meeting is to develop a mutual understanding of the QC Plan requirements prior to plan development and submission and to agree on the Contractor's list of DFOWs.

1.8 COORDINATION AND MUTUAL UNDERSTANDING MEETING

After submission of the QC Plan, and prior to the start of dredging, the QC Manager will meet with the Contracting Officer to present the QC program required by this Contract. When a new QC Manager is appointed, the coordination and mutual understanding meeting shall be repeated.

1.8.1 Purpose

The purpose of this meeting is to develop a mutual understanding of the QC details, including documentation, administration for on-site and off-site work, design intent, Cx, environmental requirements and procedures, coordination of activities to be performed, and the coordination of the Contractor's management, production, and QC personnel. At the meeting, the Contractor will be required to explain in detail how three phases of control will be implemented for each DFOW, as well as how each DFOW will be affected by each management plan or requirement as listed below:

- a. Waste Management Plan.
- b. IAQ Management Plan.
- c. Procedures for noise and acoustics management.
- d. Environmental Protection Plan.
- e. Environmental regulatory requirements.
- f. Cx Plan.

1.8.2 Coordination of Activities

Coordinate activities included in various sections to assure efficient and orderly installation of each component. Coordinate operations included under different sections that are dependent on each other for proper installation and operation. Schedule dredging operations with consideration for indoor air quality as specified in the IAQ Management Plan. Coordinate prefunctional tests and startup testing with Cx.

1.8.3 Attendees

As a minimum, the Contractor's personnel required to attend include an officer of the firm, the Project Manager, Project Superintendent, QC Manager, Alternate QC Manager, CA, Environmental Manager, and subcontractor representatives. Each subcontractor who will be assigned QC responsibilities shall have a principal of the firm at the meeting. Minutes of the meeting will be prepared by the QC Manager and signed by the Contractor and the Contracting Officer. Provide a copy of the signed minutes to all attendees and shall be included in the QC Plan.

1.9 QC MEETINGS

After the start of dredging, conduct QC meetings once every two weeks by the QC Manager at the work site with the Project Superintendent, the CA, and the foremen who are performing the work of the DFOWs. The QC Manager is to prepare the minutes of the meeting and provide a copy to the Contracting Officer within two working days after the meeting. The Contracting Officer may attend these meetings. As a minimum, accomplish the following at each meeting:

- a. Review the minutes of the previous meeting.
- b. Review the schedule and the status of work and rework.
- c. Review the status of submittals.

- d. Review the work to be accomplished in the next two weeks and documentation required.
- e. Resolve QC and production problems (RFI, etc.).
- f. Address items that may require revising the QC Plan.
- g. Review Accident Prevention Plan (APP).
- h. Review environmental requirements and procedures.
- i. Review Waste Management Plan.
- j. Review IAQ Management Plan.
- k. Review Environmental Management Plan.
- l. Review the status of training completion.
- m. Review Cx Plan and progress.

1.10 THREE PHASES OF CONTROL

Adequately cover both on-site and off-site work with the Three Phases of Control and include the following for each DFOW.

1.10.1 Preparatory Phase

Notify the Contracting Officer at least two work days in advance of each preparatory phase meeting. The meeting will be conducted by the QC Manager and attended by the Project Superintendent, the CA, and the foreman responsible for the DFOW. When the DFOW will be accomplished by a subcontractor, that subcontractor's foreman shall attend the preparatory phase meeting. Document the results of the preparatory phase actions in the Preparatory Phase Checklist. Perform the following prior to beginning work on each DFOW:

- a. Review each paragraph of the applicable specification sections.
- b. Review the Contract drawings.
- c. Verify that field measurements are as indicated on dredging and/or shop drawings before confirming product orders, in order to minimize waste due to excessive materials.
- d. Verify that appropriate shop drawings and submittals for materials and equipment have been submitted and approved. Verify receipt of approved factory test results, when required.
- e. Review the testing plan and ensure that provisions have been made to provide the required QC testing.
- f. Examine the work area to ensure that the required preliminary work has been completed.
- g. Coordinate the schedule of product delivery to designated prepared areas in order to minimize site storage time and potential damage to stored materials.

- h. Arrange for the return of shipping/packaging materials, such as wood pallets, where economically feasible.
- i. Examine the required materials, equipment and sample work to ensure that they are on hand and conform to the approved shop drawings and submitted data.
- j. Discuss specific controls used and dredging methods, dredging tolerances, workmanship standards, and the approach that will be used to provide quality dredging by planning ahead and identifying potential problems for each DFOW.
- k. Review the APP and appropriate Activity Hazard Analysis (AHA) to ensure that applicable safety requirements are met, and that required Material Safety Data Sheets (MSDS) are submitted.
- l. Review the Cx Plan and ensure all preliminary work items have been completed and documented.

1.10.2 Initial Phase

Notify the Contracting Officer at least two work days in advance of each initial phase. When dredging crews are ready to start work on a DFOW, conduct the initial phase with the Project Superintendent, and the foreman responsible for that DFOW. Observe the initial segment of the DFOW to ensure that the work complies with Contract requirements. Document the results of the initial phase in the Initial Phase Checklist. Repeat the initial phase for each new crew to work on-site, or when acceptable levels of specified quality are not being met. Perform the following for each DFOW:

- a. Establish the quality of workmanship required.
- b. Resolve conflicts.
- c. Ensure that testing is performed by the approved laboratory.
- d. Check work procedures for compliance with the APP and the appropriate AHA to ensure that applicable safety requirements are met.
- e. Review the Cx Plan and ensure all preparatory work items have been completed and documented.

1.10.3 Follow-Up Phase

Perform the following for on-going work daily, or more frequently as necessary, until the completion of each DFOW and document in the daily CQC Report:

- a. Ensure the work is in compliance with Contract requirements.
- b. Maintain the quality of workmanship required.
- c. Ensure that testing is performed by the approved laboratory.
- d. Ensure that rework items are being corrected.
- e. Assure manufacturers representatives have performed necessary

inspections if required and perform safety inspections.

- f. Review the Cx Plan and ensure all work items, testing, and documentation has been completed.

1.10.4 Additional Preparatory and Initial Phases

Conduct additional preparatory and initial phases on the same DFOW if the quality of on-going work is unacceptable, if there are changes in the applicable QC organization, if there are changes in the on-site production supervision or work crew, if work on a DFOW is resumed after substantial period of inactivity, or if other problems develop.

1.10.5 Notification of Three Phases of Control for Off-Site Work

Notify the Contracting Officer at least two weeks prior to the start of the preparatory and initial phases.

1.11 SUBMITTAL REVIEW AND APPROVAL

Procedures for submission, review and approval of submittals are described in Section 01 33 00 SUBMITTAL PROCEDURES.

1.12 TESTING

Except as stated otherwise in the specification sections, perform sampling and testing required under this Contract.

1.12.1 Accreditation Requirements

Construction materials testing laboratories must be accredited by a laboratory accreditation authority and will be required to submit a copy of the Certificate of Accreditation and Scope of Accreditation. The laboratory's scope of accreditation must include the appropriate ASTM standards (E 329, C 1077, D 3666, D 3740, A 880, E 543) listed in the technical sections of the specifications. Laboratories engaged in Hazardous Materials Testing shall meet the requirements of OSHA and EPA. The policy applies to the specific laboratory performing the actual testing, not just the Corporate Office.

1.12.2 Laboratory Accreditation Authorities

Laboratory Accreditation Authorities include the National Voluntary Laboratory Accreditation Program (NVLAP) administered by the National Institute of Standards and Technology at <http://ts.nist.gov/ts/htdocs/210/214/214.htm> , the American Association of State Highway and Transportation Officials (AASHTO) program at <http://www.transportation.org/aashto/home.nsf/frontpage> , International Accreditation Services, Inc. (IAS) at <http://www.iasonline.org>, U. S. Army Corps of Engineers Materials Testing Center (MTC) at <http://www.wes.army.mil/SL/MTC/>, the American Association for Laboratory Accreditation (A2LA) program at <http://www.a2la.org/>, the Washington Association of Building Officials (WABO) at <http://www.wabo.org/> (Approval authority for WABO is limited to projects within Washington State), and the Washington Area Council of Engineering Laboratories (WACEL) at <http://www.wacel.org/labaccred.html> (Approval authority by WACEL is limited to projects within Facilities Engineering Command (FEC) Washington geographical area).

1.12.3 Capability Check

The Contracting Officer retains the right to check laboratory equipment in the proposed laboratory and the laboratory technician's testing procedures, techniques, and other items pertinent to testing, for compliance with the standards set forth in this Contract.

1.12.4 Test Results

Cite applicable Contract requirements, tests or analytical procedures used. Provide actual results and include a statement that the item tested or analyzed conforms or fails to conform to specified requirements. If the item fails to conform, notify the Contracting Officer immediately. Conspicuously stamp the cover sheet for each report in large red letters "CONFORMS" or "DOES NOT CONFORM" to the specification requirements, whichever is applicable. Test results must be signed by a testing laboratory representative authorized to sign certified test reports. Furnish the signed reports, certifications, and other documentation to the Contracting Officer via the QC Manager. Furnish a summary report of field tests at the end of each month, per the paragraph entitled "INFORMATION FOR THE CONTRACTING OFFICER".

1.12.5 Test Reports and Monthly Summary Report of Tests

Furnish the signed reports, certifications, and a summary report of field tests at the end of each month to the Contracting Officer. Attach a copy of the summary report to the last daily Contractor Quality Control Report of each month. Provide a copy of the signed test reports and certifications to the OMSI preparer for inclusion into the OMSI documentation.

1.13 QC CERTIFICATIONS

1.13.1 CQC Report Certification

Contain the following statement within the CQC Report: "On behalf of the Contractor, I certify that this report is complete and correct and equipment and material used and work performed during this reporting period is in compliance with the contract drawings and specifications to the best of my knowledge, except as noted in this report."

1.13.2 Invoice Certification

Furnish a certificate to the Contracting Officer with each payment request, signed by the QC Manager, attesting that as-built drawings are current, coordinated and attesting that the work for which payment is requested, including stored material, is in compliance with Contract requirements.

1.13.3 Completion Certification

Upon completion of work under this Contract, the QC Manager shall furnish a certificate to the Contracting Officer attesting that "the work has been completed, inspected, tested and is in compliance with the Contract." Provide a copy of this final QC Certification for completion to the OMSI preparer for inclusion into the OMSI documentation.

1.14 COMPLETION INSPECTIONS

1.14.1 Punch-Out Inspection

Near the completion of all work or any increment thereof, established by a completion time stated in the Contract Clause entitled "Commencement, Prosecution, and Completion of Work," or stated elsewhere in the specifications, the QC Manager and the CA must conduct an inspection of the work and develop a "punch list" of items which do not conform to the approved drawings, specifications and Contract. Include in the punch list any remaining items on the "Rework Items List", which were not corrected prior to the Punch-Out Inspection. Include within the punch list the estimated date by which the deficiencies will be corrected. Provide a copy of the punch list to the Contracting Officer. The QC Manager, or staff, must make follow-on inspections to ascertain that all deficiencies have been corrected. Once this is accomplished, notify the Government that the facility is ready for the Government "Pre-Final Inspection".

1.14.2 Pre-Final Inspection

The Government and QCM will perform this inspection to verify that the facility is complete and ready to be occupied. A Government "Pre-Final Punch List" will be documented by the QCM as a result of this inspection. The QC Manager will ensure that all items on this list are corrected prior to notifying the Government that a "Final" inspection with the Client can be scheduled. Any items noted on the "Pre-Final" inspection must be corrected in a timely manner and be accomplished before the contract completion date for the work, or any particular increment thereof, if the project is divided into increments by separate completion dates.

1.14.3 Final Acceptance Inspection

Notify the Contracting Officer at least 14 calendar days prior to the date a final acceptance inspection can be held. State within the notice that all items previously identified on the pre-final punch list will be corrected and acceptable, along with any other unfinished Contract work, by the date of the final acceptance inspection. The Contractor must be represented by the QC Manager, the Project Superintendent, the CA, and others deemed necessary. Attendees for the Government will include the Contracting Officer, other FEAD/ROICC personnel, and personnel representing the Client. Failure of the Contractor to have all contract work acceptably complete for this inspection will be cause for the Contracting Officer to bill the Contractor for the Government's additional inspection cost in accordance with the Contract Clause entitled "Inspection of Construction."

1.15 DOCUMENTATION

Maintain current and complete records of on-site and off-site QC program operations and activities.

1.15.1 Dredging Documentation

Reports are required for each day that work is performed and must be attached to the Contractor Quality Control Report prepared for the same day. Maintain current and complete records of on-site and off-site QC program operations and activities. The forms identified under the paragraph "INFORMATION FOR THE CONTRACTING OFFICER" will be used. Reports are required for each day work is performed. Account for each calendar day throughout the life of the Contract. Every space on the forms must be

filled in. Use N/A if nothing can be reported in one of the spaces. The Project Superintendent and the QC Manager must prepare and sign the Contractor Production and CQC Reports, respectively. The reporting of work must be identified by terminology consistent with the dredging schedule. In the "remarks" sections of the reports, enter pertinent information including directions received, problems encountered during dredging, work progress and delays, conflicts or errors in the drawings or specifications, field changes, safety hazards encountered, instructions given and corrective actions taken, delays encountered and a record of visitors to the work site, quality control problem areas, deviations from the QC Plan, dredging deficiencies encountered, meetings held. For each entry in the report(s), identify the Schedule Activity No. that is associated with the entered remark.

1.15.2 Quality Control Validation

Establish and maintain the following in a series of three ring binders. Binders shall be divided and tabbed as shown below. These binders must be readily available to the Contracting Officer during all business hours.

- a. All completed Preparatory and Initial Phase Checklists, arranged by specification section.
- b. All milestone inspections, arranged by Activity Number.
- c. An up-to-date copy of the Testing Plan and Log with supporting field test reports, arranged by specification section.
- d. Copies of all contract modifications, arranged in numerical order. Also include documentation that modified work was accomplished.
- e. An up-to-date copy of the Rework Items List.
- f. Maintain up-to-date copies of all punch lists issued by the QC staff to the Contractor and Sub-Contractors and all punch lists issued by the Government.
- g. Commissioning documentation including Cx checklists, schedules, tests, and reports.

1.15.3 Testing Plan and Log

As tests are performed, the CA and the QC Manager will record on the "Testing Plan and Log" the date the test was performed and the date the test results were forwarded to the Contracting Officer. Attach a copy of the updated "Testing Plan and Log" to the last daily CQC Report of each month, per the paragraph "INFORMATION FOR THE CONTRACTING OFFICER". Provide a copy of the final "Testing Plan and Log" to the OMSI preparer for inclusion into the OMSI documentation.

1.15.4 Rework Items List

The QC Manager must maintain a list of work that does not comply with the Contract, identifying what items need to be reworked, the date the item was originally discovered, the date the item will be corrected by, and the date the item was corrected. There is no requirement to report a rework item that is corrected the same day it is discovered. The Contractor is responsible for including those items identified by the Contracting Officer.

1.16 NOTIFICATION ON NON-COMPLIANCE

The Contracting Officer will notify the Contractor of any detected non-compliance with the Contract. Take immediate corrective action after receipt of such notice. Such notice, when delivered to the Contractor at the work site, shall be deemed sufficient for the purpose of notification. If the Contractor fails or refuses to comply promptly, the Contracting Officer may issue an order stopping all or part of the work until satisfactory corrective action has been taken. No part of the time lost due to such stop orders will be made the subject of claim for extension of time for excess costs or damages by the Contractor.

PART 2 PRODUCTS

Not Used

PART 3 EXECUTION

3.1 PREPARATION

Designate receiving/storage areas for incoming material to be delivered according to installation schedule and to be placed convenient to work area in order to minimize waste due to excessive materials handling and misapplication. Store and handle materials in a manner as to prevent loss from weather and other damage. Keep materials, products, and accessories covered and off the ground, and store in a dry, secure area. Prevent contact with material that may cause corrosion, discoloration, or staining. Protect all materials and installations from damage by the activities of other trades.

-- End of Section --

SECTION 01 57 20.00 10

ENVIRONMENTAL PROTECTION
04/06

PART 1 GENERAL

1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

U.S. ARMY CORPS OF ENGINEERS (USACE)

EM 385-1-1 (2003) Safety -- Safety and Health Requirements

WETLAND MANUAL Corps of Engineers Wetlands Delineation Manual Technical Report Y-87-1

U.S. NATIONAL ARCHIVES AND RECORDS ADMINISTRATION (NARA)

33 CFR 328 Definitions of Waters of the United States
40 CFR 260 Hazardous Waste Management System: General
40 CFR 261 Identification and Listing of Hazardous Waste
40 CFR 262 Standards Applicable to Generators of Hazardous Waste
40 CFR 279 Standards for the Management of Used Oil
40 CFR 302 Designation, Reportable Quantities, and Notification
40 CFR 355 Emergency Planning and Notification
40 CFR 68 Chemical Accident Prevention Provisions
49 CFR 171 - 178 Hazardous Materials Regulations

1.2 DEFINITIONS

1.2.1 Environmental Pollution and Damage

Environmental pollution and damage is the presence of chemical, physical, or biological elements or agents which adversely affect human health or welfare; unfavorably alter ecological balances of importance to human life; affect other species of importance to humankind; or degrade the environment aesthetically, culturally and/or historically.

1.2.2 Environmental Protection

Environmental protection is the prevention/control of pollution and habitat

disruption that may occur to the environment during dredging. The control of environmental pollution and damage requires consideration of land, water, and air; biological and cultural resources; and includes management of visual aesthetics; noise; solid, chemical, gaseous, and liquid waste; radiant energy and radioactive material as well as other pollutants.

1.2.3 Contractor Generated Hazardous Waste

Contractor generated hazardous waste means materials that, if abandoned or disposed of, may meet the definition of a hazardous waste. These waste streams would typically consist of material brought on site by the Contractor to execute work, but are not fully consumed during the course of dredging. Examples include, but are not limited to, excess paint thinners (i.e. methyl ethyl ketone, toluene etc.), waste thinners, excess paints, excess solvents, waste solvents, and excess pesticides, and contaminated pesticide equipment rinse water.

1.2.4 Land Application for Discharge Water

The term "Land Application" for discharge water implies that the Contractor must discharge water at a rate which allows the water to percolate into the soil. No sheeting action, soil erosion, discharge into storm sewers, discharge into defined drainage areas, or discharge into the "waters of the United States" must occur. Land Application must be in compliance with all applicable Federal, State, and local laws and regulations.

1.2.5 Surface Discharge

The term "Surface Discharge" implies that the water is discharged with possible sheeting action and subsequent soil erosion may occur. Waters that are surface discharged may terminate in drainage ditches, storm sewers, creeks, and/or "waters of the United States" and would require a permit to discharge water from the governing agency.

1.2.6 Waters of the United States

All waters which are under the jurisdiction of the Clean Water Act, as defined in 33 CFR 328.

1.2.7 Wetlands

Those areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, and bogs. Official determination of whether or not an area is classified as a wetland must be done in accordance with WETLAND MANUAL.

1.3 GENERAL REQUIREMENTS

Minimize environmental pollution and damage that may occur as the result of dredging operations. The environmental resources within the project boundaries and those affected outside the limits of permanent work must be protected during the entire duration of this contract. Comply with all applicable environmental Federal, State, and local laws and regulations. Any delays resulting from failure to comply with environmental laws and regulations will be the Contractor's responsibility.

1.4 SUBCONTRACTORS

Ensure compliance with this section by subcontractors.

1.5 PAYMENT

No separate payment will be made for work covered under this section. Payment of fees associated with environmental permits, application, and/or notices obtained by the Contractor, and payment of all fines/fees for violation or non-compliance with Federal, State, Regional and local laws and regulations are the Contractor's responsibility. All costs associated with this section must be included in the contract price.

1.6 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for information only. Submit the following in accordance with Section 01 33 00 SUBMITTAL PROCEDURES:

SD-01 Preconstruction Submittals

Environmental Protection Plan; G

The environmental protection plan.

1.7 ENVIRONMENTAL PROTECTION PLAN

Prior to commencing dredging activities or delivery of materials to the site, submit an Environmental Protection Plan for review and approval by the Contracting Officer. The purpose of the Environmental Protection Plan is to present a comprehensive overview of known or potential environmental issues which the Contractor must address during dredging. Issues of concern must be defined within the Environmental Protection Plan as outlined in this section. Address each topic at a level of detail commensurate with the environmental issue and required dredging task(s). Topics or issues which are not identified in this section, but are considered necessary, must be identified and discussed after those items formally identified in this section. Prior to submittal of the Environmental Protection Plan, meet with the Contracting Officer for the purpose of discussing the implementation of the initial Environmental Protection Plan; possible subsequent additions and revisions to the plan including any reporting requirements; and methods for administration of the Contractor's Environmental Plans. The Environmental Protection Plan must be current and maintained onsite by the Contractor.

1.7.1 Compliance

No requirement in this Section will relieve the Contractor of any applicable Federal, State, and local environmental protection laws and regulations. During dredging, the Contractor will be responsible for identifying, implementing, and submitting for approval any additional requirements to be included in the Environmental Protection Plan.

1.7.2 Contents

Include in the environmental protection plan, but not limit it to, the following:

- a. Name(s) of person(s) within the Contractor's organization who

is(are) responsible for ensuring adherence to the Environmental Protection Plan.

b. Name(s) and qualifications of person(s) responsible for manifesting hazardous waste to be removed from the site, if applicable.

c. Name(s) and qualifications of person(s) responsible for training the Contractor's environmental protection personnel.

d. Description of the Contractor's environmental protection personnel training program.

e. An erosion and sediment control plan which identifies the type and location of the erosion and sediment controls to be provided. The plan must include monitoring and reporting requirements to assure that the control measures are in compliance with the erosion and sediment control plan, Federal, State, and local laws and regulations. A Storm Water Pollution Prevention Plan (SWPPP) may be substituted for this plan.

f. Drawings showing locations of proposed temporary excavations or embankments for haul roads, stream crossings, material storage areas, structures, sanitary facilities, and stockpiles of excess or spoil materials including methods to control runoff and to contain materials on the site.

g. Work area plan showing the proposed activity in each portion of the area and identifying the areas of limited use or nonuse. Plan should include measures for marking the limits of use areas including methods for protection of features to be preserved within authorized work areas.

h. Include in the Spill Control plan the procedures, instructions, and reports to be used in the event of an unforeseen spill of a substance regulated by 40 CFR 68, 40 CFR 302, 40 CFR 355, and/or regulated under State or Local laws and regulations.

i. A non-hazardous solid waste disposal plan identifying methods and locations for solid waste disposal including clearing debris and schedules for disposal.

1). Identify any subcontractors responsible for the transportation and disposal of solid waste. Submit licenses or permits for solid waste disposal sites that are not a commercial operating facility.

2). Evidence of the disposal facility's acceptance of the solid waste must be attached to this plan during the dredging. Attach a copy of each of the Non-hazardous Solid Waste Diversion Reports to the disposal plan. Submit the report for the previous quarter on the first working day after the first quarter that non-hazardous solid waste has been disposed and/or diverted (e.g. the first working day of January, April, July, and October).

3). Indicate in the report the total amount of waste generated and total amount of waste diverted in cubic yards or tons along with the percent that was diverted.

4). A recycling and solid waste minimization plan with a list of measures to reduce consumption of energy and natural resources.

Detail in the plan the Contractor's actions to comply with and to participate in Federal, State, Regional, and local government sponsored recycling programs to reduce the volume of solid waste at the source.

j. An air pollution control plan detailing provisions to assure that dust, debris, materials, trash, etc., do not become air borne and travel off the project site.

k. A contaminant prevention plan that: identifies potentially hazardous substances to be used on the job site; identifies the intended actions to prevent introduction of such materials into the air, water, or ground; and details provisions for compliance with Federal, State, and local laws and regulations for storage and handling of these materials. In accordance with EM 385-1-1, a copy of the Material Safety Data Sheets (MSDS) and the maximum quantity of each hazardous material to be onsite at any given time must be included in the contaminant prevention plan. Update the plan as new hazardous materials are brought onsite or removed from the site.

l. A waste water management plan that identifies the methods and procedures for management and/or discharge of waste waters which are directly derived from dredging activities, such as concrete curing water, clean-up water, dewatering of ground water, disinfecting water, hydrostatic test water, and water used in flushing of lines. If a settling/retention pond is required, the plan must include the design of the pond including drawings, removal plan, and testing requirements for possible pollutants. If land application will be the method of disposal for the waste water, the plan must include a sketch showing the location for land application along with a description of the pretreatment methods to be implemented. If surface discharge will be the method of disposal, include a copy of the permit and associated documents as an attachment prior to discharging the waste water. If disposal is to a sanitary sewer, the plan must include documentation that the Waste Water Treatment Plant Operator has approved the flow rate, volume, and type of discharge.

m. A historical, archaeological, cultural resources biological resources and wetlands plan that defines procedures for identifying and protecting historical, archaeological, cultural resources, biological resources and wetlands known to be on the project site: and/or identifies procedures to be followed if historical archaeological, cultural resources, biological resources and wetlands not previously known to be onsite or in the area are discovered during dredging. Include in the plan methods to assure the protection of known or discovered resources, identifying lines of communication between Contractor personnel and the Contracting Officer.

1.7.3 Appendix

Attach to the Environmental Protection Plan, as an appendix, copies of all environmental permits, permit application packages, approvals to construct, notifications, certifications, reports, and termination documents, not provided by contracting officer.

1.8 PROTECTION FEATURES

This paragraph supplements the Contract Clause PROTECTION OF EXISTING VEGETATION, STRUCTURES, EQUIPMENT, UTILITIES, AND IMPROVEMENTS. Prior to

start of any onsite dredging activities, the Contractor and the Contracting Officer will make a joint condition survey. Immediately following the survey, the Contractor will prepare a brief report including a plan describing the features requiring protection under the provisions of the Contract Clauses, which are not specifically identified on the drawings as environmental features requiring protection along with the condition of trees, shrubs and grassed areas immediately adjacent to the site of work and adjacent to the Contractor's assigned storage area and access route(s), as applicable. This survey report will be signed by both the Contractor and the Contracting Officer upon mutual agreement as to its accuracy and completeness. The Contractor must protect those environmental features included in the survey report and any indicated on the drawings, regardless of interference which their preservation may cause to the work under the contract.

1.9 ENVIRONMENTAL ASSESSMENT OF CONTRACT DEVIATIONS

Any deviations from the drawings, plans and specifications, requested by the Contractor and which may have an environmental impact, will be subject to approval by the Contracting Officer and may require an extended review, processing, and approval time. The Contracting Officer reserves the right to disapprove alternate methods, even if they are more cost effective, if the Contracting Officer determines that the proposed alternate method will have an adverse environmental impact.

1.10 NOTIFICATION

The Contracting Officer will notify the Contractor in writing of any observed noncompliance with Federal, State or local environmental laws or regulations, permits, and other elements of the Contractor's Environmental Protection plan. After receipt of such notice, the Contractor will inform the Contracting Officer of the proposed corrective action and take such action when approved by the Contracting Officer. The Contracting Officer may issue an order stopping all or part of the work until satisfactory corrective action has been taken. No time extensions will be granted or equitable adjustments allowed for any such suspensions. This is in addition to any other actions the Contracting Officer may take under the contract, or in accordance with the Federal Acquisition Regulation or Federal Law.

PART 2 PRODUCTS

NOT USED

PART 3 EXECUTION

3.1 ENVIRONMENTAL PERMITS AND COMMITMENTS

This paragraph supplements the Contractor's responsibility under the contract clause "PERMITS AND RESPONSIBILITIES" to the extent that the Government has obtained the dredging permit(s). Comply with the terms and conditions of the dredging permit available from the Contracting officer.

3.2 LAND RESOURCES

Confine all activities to areas defined by the drawings and specifications. Identify any land resources to be preserved within the work area prior to the beginning of any dredging. Do not remove, cut, deface, injure, or destroy land resources including trees, shrubs, vines, grasses, topsoil,

and land forms without approval, except in areas indicated on the drawings or specified to be cleared. Ropes, cables, or guys will not be fastened to or attached to any trees for anchorage unless specifically authorized. Provide effective protection for land and vegetation resources at all times, as defined in the following subparagraphs. Remove stone, soil, or other materials displaced into uncleared areas.

3.2.1 Work Area Limits

Mark the areas that need not be disturbed under this contract prior to commencing dredging activities. Mark or fence isolated areas within the general work area which are not to be disturbed. Protect monuments and markers before dredging operations commence. Where dredging operations are to be conducted during darkness, any markers must be visible in the dark. The Contractor's personnel must be knowledgeable of the purpose for marking and/or protecting particular objects.

3.2.2 Landscape

Trees, shrubs, vines, grasses, land forms and other landscape features indicated and defined on the drawings to be preserved must be clearly identified by marking, fencing, or wrapping with boards, or any other approved techniques. Restore landscape features damaged or destroyed during dredging operations outside the limits of the approved work area.

3.2.3 Erosion and Sediment Controls

Providing erosion and sediment control measures in accordance with Federal, State, and local laws and regulations is the Contractor's responsibility. The erosion and sediment controls selected and maintained by the Contractor shall be such that water quality standards are not violated as a result of dredging activities. The area of bare soil exposed at any one time by dredging operations should be kept to a minimum.

3.2.4 Contractor Facilities and Work Areas

Place field offices, staging areas, stockpile storage, and temporary buildings in areas designated on the drawings or as directed by the Contracting Officer. Temporary movement or relocation of Contractor facilities will be made only when approved. Erosion and sediment controls must be provided for onsite borrow and spoil areas to prevent sediment from entering nearby waters. Temporary excavation and embankments for plant and/or work areas must be controlled to protect adjacent areas.

3.3 WATER RESOURCES

Monitor all water areas affected by dredging activities to prevent pollution of surface and ground waters. Do not apply toxic or hazardous chemicals to soil or vegetation unless otherwise indicated. For dredging activities immediately adjacent to impaired surface waters, the Contractor must be capable of quantifying sediment or pollutant loading to that surface water when required by State or Federally issued Clean Water Act permits.

3.3.1 Wetlands

Do not enter, disturb, destroy, or allow discharge of contaminants into any wetlands.

3.4 AIR RESOURCES

Equipment operation, activities, or processes will be in accordance with all Federal and State air emission and performance laws and standards.

3.4.1 Particulates

Dust particles; aerosols and gaseous by-products from dredging activities; and processing and preparation of materials, such as from asphaltic batch plants; must be controlled at all times, including weekends, holidays and hours when work is not in progress. Maintain excavations, stockpiles, haul roads, permanent and temporary access roads, plant sites, spoil areas, borrow areas, and other work areas within or outside the project boundaries free from particulates which would cause the Federal, State, and local air pollution standards to be exceeded or which would cause a hazard or a nuisance. Sprinkling, chemical treatment of an approved type, baghouse, scrubbers, electrostatic precipitators or other methods will be permitted to control particulates in the work area. Sprinkling, to be efficient, must be repeated to keep the disturbed area damp at all times. Provide sufficient, competent equipment available to accomplish these tasks. Perform particulate control as the work proceeds and whenever a particulate nuisance or hazard occurs. Comply with all State and local visibility regulations.

3.4.2 Odors

Odors from dredging activities must be controlled at all times. The odors must be in compliance with State regulations and/or local ordinances and may not constitute a health hazard.

3.4.3 Sound Intrusions

Keep dredging activities under surveillance and control to minimize environment damage by noise.

3.4.4 Burning

Burning is prohibited on the Government premises.

3.5 CHEMICAL MATERIALS MANAGEMENT AND WASTE DISPOSAL

Disposal of wastes will be as directed below, unless otherwise specified in other sections and/or shown on the drawings.

3.5.1 Solid Wastes

Place solid wastes other than dredged materials in containers which are emptied on a regular schedule. Handling, storage, and disposal must be conducted to prevent contamination. Employ segregation measures so that no hazardous or toxic waste will become co-mingled with solid waste. Transport solid waste off Government property and dispose of it in compliance with Federal, State, and local requirements for solid waste disposal. A Subtitle D RCRA permitted landfill will be the minimum acceptable offsite solid waste disposal option. Verify that the selected transporters and disposal facilities have the necessary permits and licenses to operate.

3.5.2 Chemicals and Chemical Wastes

Dispense chemicals ensuring no spillage to the ground or water. Perform and document periodic inspections of dispensing areas to identify leakage and initiate corrective action. This documentation will be periodically reviewed by the Government. Collect chemical waste in corrosion resistant, compatible containers. Collection drums must be monitored and removed to a staging or storage area when contents are within 6 inches of the top. Wastes will be classified, managed, stored, and disposed of in accordance with Federal, State, and local laws and regulations.

3.5.3 Contractor Generated Hazardous Wastes/Excess Hazardous Materials

Hazardous wastes are defined in 40 CFR 261, or are as defined by applicable State and local regulations. Hazardous materials are defined in 49 CFR 171 - 178. At a minimum, manage and store hazardous waste in compliance with 40 CFR 262 in accordance with the Project Office hazardous waste management plan. Take sufficient measures to prevent spillage of hazardous and toxic materials during dispensing. Segregate hazardous waste from other materials and wastes, protect it from the weather by placing it in a safe covered location, and take precautionary measures such as berming or other appropriate measures against accidental spillage. Storage, describing, packaging, labeling, marking, and placarding of hazardous waste and hazardous material in accordance with 49 CFR 171 - 178, State, and local laws and regulations is the Contractor's responsibility. Transport Contractor generated hazardous waste off Government property within 60 days in accordance with the Environmental Protection Agency and the Department of Transportation laws and regulations. Dispose of hazardous waste in compliance with Federal, State and local laws and regulations. Spills of hazardous or toxic materials must be immediately reported to the Contracting Officer. Cleanup and cleanup costs due to spills are the Contractor's responsibility. The disposition of Contractor generated hazardous waste and excess hazardous materials are the Contractor's responsibility.

3.5.4 Fuel and Lubricants

Storage, fueling and lubrication of equipment and motor vehicles must be conducted in a manner that affords the maximum protection against spill and evaporation. Manage and store fuel, lubricants and oil in accordance with all Federal, State, Regional, and local laws and regulations. Used lubricants and used oil to be discarded must be stored in marked corrosion-resistant containers and recycled or disposed in accordance with 40 CFR 279, State, and local laws and regulations. Storage of fuel on the project site will be in accordance with all Federal, State, and local laws and regulations.

3.5.5 Waste Water

Disposal of waste water will be as specified below.

- a. Waste water from dredging equipment activities, will not be allowed to enter water ways or to be discharged prior to being treated to remove pollutants. Dispose of the dredging related waste water off-Government property in accordance with all Federal, State, Regional and Local laws and regulations.

3.6 BIOLOGICAL RESOURCES

Minimize interference with, disturbance to, and damage to fish, wildlife, and plants including their habitat. The protection of threatened and endangered animal and plant species, including their habitat, is the Contractor's responsibility in accordance with Federal, State, Regional, and local laws and regulations.

3.7 PREVIOUSLY USED EQUIPMENT

Clean all previously used dredging equipment prior to bringing it onto the project site. Ensure that the equipment is free from soil residuals, egg deposits from plant pests, noxious weeds, and plant seeds. Consult with the USDA jurisdictional office for additional cleaning requirements.

3.8 MAINTENANCE OF POLLUTION FACILITIES

Maintain permanent and temporary pollution control facilities and devices for the duration of the contract or for that length of time dredging activities create the particular pollutant.

3.9 MILITARY MUNITIONS

In the event military munitions, as defined in 40 CFR 260, are discovered or uncovered, the Contractor will immediately stop work in that area and immediately inform the Contracting Officer.

3.10 TRAINING OF CONTRACTOR PERSONNEL

The Contractor's personnel must be trained in all phases of environmental protection and pollution control. Conduct environmental protection/pollution control meetings for all personnel prior to commencing dredging activities. Additional meetings must be conducted for new personnel and when site conditions change. Include in the training and meeting agenda: methods of detecting and avoiding pollution; familiarization with statutory and contractual pollution standards; installation and care of devices, vegetative covers, and instruments required for monitoring purposes to ensure adequate and continuous environmental protection/pollution control; anticipated hazardous or toxic chemicals or wastes, and other regulated contaminants; recognition and protection of archaeological sites, artifacts, wetlands, and endangered species and their habitat that are known to be in the area.

3.11 POST DREDGING CLEANUP

The Contractor will clean up all areas used for dredging in accordance with Contract Clause: "Cleaning Up". Unless otherwise instructed in writing by the Contracting Officer, obliterate all signs of temporary dredging facilities such as haul roads, work area, structures, foundations of temporary structures, stockpiles of excess or waste materials, and other vestiges of dredging prior to final acceptance of the work. The disturbed area must be graded, filled and the entire area seeded unless otherwise indicated.

-- End of Section --

SECTION 35 20 23

DREDGING
04/06

PART 1 GENERAL

1.1 DEFINITION

Hard material is defined as material requiring blasting or the use of special equipment for economical removal, and includes boulders or fragments too large to be removed in one piece by the dredge.

1.2 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for information only. The following shall be submitted in accordance with Section 01 33 00 SUBMITTAL PROCEDURES:

SD-02 Shop Drawings

Barge and Scow positioning(s) adjacent pier; G

1.3 MATERIAL TO BE REMOVED

The material to be removed is silt and mud.

1.3.1 Hard Material

The removal of hard material is not included. Should the Government direct in writing that hard material be removed, the work shall be performed and an adjustment in the contract price or time for completion, or both, will be made in accordance with "FAR 52.236-2, Differing Site Conditions." If hard material is to be removed, blasting will not be permitted.

1.4 ARTIFICIAL OBSTRUCTIONS

Except as indicated, the Government has no knowledge of cables, pipes, or other artificial obstructions or of any wrecks, wreckage, or other material that would necessitate the use of explosives or the employment of additional equipment for economical removal. If actual conditions differ from those stated or shown, or both, an adjustment in contract price or time for completion, or both, will be made in accordance with "FAR 52.236-2, Differing Site Conditions."

1.5 QUANTITY OF MATERIAL-BASE BID

The estimated quantity for bidding purposes and for application of the "FAR 52.212-11, Variation in Estimated Quantity" shall be as shown on Sheet V-002 of the project drawings. The quantities listed are estimates only. Within the limits of available funds, complete the work specified whether the quantities involved are greater or less than those estimated.

1.6 OVERDEPTH DREDGING

To cover unavoidable inaccuracies of dredging processes, material actually removed to a depth of 2 feet below the depth specified and within the

dredging limits will be measured and paid for at full contract price.

1.7 SIDE SLOPES

Pay volumes shall be calculated using 2:1 side slopes with a 2' allowable overdepth. See Paragraph 1.6 "Overdepth Dredging" for overdepth dredging limits. Dredging on side slopes shall follow, as closely as practicable, the lines indicated or specified. An allowance will be made for dredging beyond the lines indicated or specified for side slopes. The allowance will be determined by projecting a line upwards, paralleling the project design side slopes, from the intersection of the overdepth dredging limit (at a point located vertically below the limit of dredging at the top of slope). The amount of material excavated from side slopes will be determined by either cross-sections or computer, or both.

1.8 PERMIT

The Contractor shall comply with conditions and requirements of the Corps of Engineers Permit and other State or Federal permits. The Contracting Officer will secure the permit for dredging and disposal of material as indicated. Make arrangements with the Norfolk District Army Corps of Engineers, POC: Sam McGee, 757-484-1021 for disposal of excavated materials at the Craney Island Site.

1.9 CHARGES

The Government will pay only charges imposed by the U.S. Army Corps of Engineers for disposal of dredged material included in the contract into the designated area of the Craney Island Dredge Material Management Area. The contractor shall pay all other fees (if any) imposed by U.S. Army Corps of Engineers related to the use of the Craney Island Dredge Material Management Area.

1.10 REAL ESTATE PERMIT

The contractor shall acquire and procure, at the contractor's expense, a Real Estate Permit, from the Norfolk District Army Corps of Engineer, 803 Front Street, Norfolk, VA 23510. The permit is required for disposal of dredge spoils into the Craney Island Dredge Material Management Area.

1.11 ENVIRONMENTAL PROTECTION REQUIREMENTS

Provide and maintain during the life of the contract, environmental protective measures. Also, provide environmental protective measures required to correct conditions, such as oil spills or debris, that occur during the dredging operations. Comply with Federal, State, and local regulations pertaining to water, air, and noise pollution.

1.12 BASIS FOR BIDS

Payment will be at the contract unit price per cubic yard, multiplied by total cubic yards of acceptable dredging. Base bids on total cubic yards of dredging indicated. Include a bid unit price per cubic yard of dredging based on the quantity as specified or indicated. If the Contracting Officer requires an increase or a decrease in total volume of dredging, the contract price will be adjusted in accordance with the "FAR 52.211-18, Variation in Estimated Quantity." Dredging conditions specified and indicated describe conditions which are known. However, the Contractor is responsible for other conditions encountered which are not unusual when

compared to conditions recognized in the dredging business as usual in dredging activities such as those required under this contract.

PART 2 PRODUCTS

Not used.

PART 3 EXECUTION

3.1 INSPECTION

Inspect the work, keep records of work performed, and ensure that gages, targets, ranges, and other markers are in place and usable for the intended purpose. Furnish, at the request of the Contracting Officer, boats, boatmen, laborers, and materials necessary for inspecting, supervising, and surveying the work. When required, provide transportation for the Contracting Officer and inspectors to and from the disposal area and between the dredging plant and adjacent points on shore.

3.2 CONDUCT OF DREDGING WORK

3.2.1 Order of Work

The Contractor shall coordinate with the Contracting Officer prior to start of dredging to determine order of work. The Government reserves the right to change the order of work at any time.

3.2.2 Interference with Navigation

Minimize interference with the use of channels and passages. The Contracting Officer will direct the shifting or moving of dredges or the interruption of dredging operations to accommodate the movement of vessels and floating equipment, if necessary.

3.2.2.1 Federal Channel Requirements

Contractor shall be aware that work adjacent to federal channels requires them to coordinate with all maritime entities accordingly. No interference with channel traffic or operations shall be allowed.

3.2.2.2 Compensation for Interruption of Operations

If dredging operations are interrupted due to the movement of vessels or floating equipment, an adjustment in the contract price or time for completion, or both, will be made as provided by the contract. The Contracting Officer will notify the Contractor 72 hours prior to ship movements that will affect dredging operations.

3.2.3 Lights

Each night, between sunset and sunrise and during periods of restricted visibility, provide lights for floating plants, pipelines, ranges, and markers. Also, provide lights for buoys that could endanger or obstruct navigation. When night work is in progress, maintain lights from sunset to sunrise for the observation of dredging operations. Lighting shall conform to United States Coast Guard requirements for visibility and color.

3.2.4 Ranges, Gages, and Lines

Furnish, set, and maintain ranges, buoys, and markers needed to define the work and to facilitate inspection. Establish and maintain gages in locations observable from each part of the work so that the depth may be determined. Suspend dredging when the gages or ranges cannot be seen or followed. The Contracting Officer will furnish, upon request by the Contractor, survey lines, points, and elevations necessary for the setting of ranges, gages, and buoys.

3.2.5 Plant

Maintain the plant, scows, coamings, barges, pipelines, and associated equipment to meet the requirements of the work. Promptly repair leaks or breaks along pipelines. Remove dredged material placed due to leaks and breaks.

3.2.6 Disposal of Excavated Material

Provide for safe transportation and disposal of dredged materials. Transport and dispose of dredged material into the Rehandling Basin of the Army Corps of Engineers Craney Island Dredged Material Management Area (CIDMMA) disposal area. The deposit of dredged materials in unauthorized places is forbidden. Comply with rules and regulations of local port and harbor governing authorities.

3.2.6.1 Method of Disposal

Deposit dredged material by self-dumping scow or barge. Do not remove loaded or partially loaded scows, barges, or hopper dredges from the dredge area until the load has been measured by the Contracting Officer. Notify the Contracting Officer when scows or barges are returned to the dredge area.

3.2.6.2 Real Estate Permit Restrictions

Contractor shall conduct disposal operations and all incidental work at the in accordance with the Real Estate Permit they procured at the Norfolk District Army Corps of Engineers.

3.2.7 Navigation Warnings

Furnish and maintain navigation warning signs along the pipeline.

3.2.8 Method of Communication

Provide a system of communication between the dredge crew and the crew at the disposal area. A portable two-way radio is acceptable.

3.2.9 Salvaged Material

Anchors, chains, firearms, and other articles of value, which are brought to the surface during dredging operations, shall remain or become the property of the Government and shall be deposited on shore at a convenient location near the site of the work, as directed.

3.2.10 Safety of Structures

The prosecution of work shall ensure the stability of piers, bulkheads, and

other structures lying on or adjacent to the site of the work, insofar as structures may be jeopardized by dredging operations. Repair damage resulting from dredging operations, insofar as such damage may be caused by variation in locations or depth of dredging, or both, from that indicated or permitted under the contract.

3.2.11 Plant Removal

Upon completion of the work, promptly remove plant, including ranges, buoys, piles, and other markers or obstructions.

3.3 MEASUREMENT

Government will record depth soundings before and after dredging.

3.3.1 Method of Measurement

The material removed will be measured by cubic yard in place, by means of soundings taken before and after dredging. The drawings represent existing conditions based on current available information, but will be verified and corrected, if necessary, by soundings taken before dredging in each locality. Soundings will be taken by Single Beam Sonar (200 kHz) or via Multi-Beam Sonar methods, or both, as determined by the Government. Results of soundings recorded by government determined methods will be the basis for payment. Areas sounded more than 30 days prior to dredging will be re-sounded when requested by the Contractor. The Contractor has the option of being present when such soundings are made.

Multi-Beam survey field work shall be conducted using a RESON 7100 Multi-Beam Sonar system or a RESON 7125 Multi-Beam Sonar system and HYPACK/HYSWEEP software. Sounding information will be recorded using HYPACK/HYSWEEP Survey and processed using HYPACK/HYSWEEP Editor, generating TIN model surfaces as follows.

Cell Size: 5' x 5'
Sounding Position: Center of Cell
Cell Statistics: Average

All volume calculations will be determined via TIN to Advanced Channel Plan methodology using HYPACK MAX. Advanced channel plans shall be constructed using dredge limits as shown on dredging plans and side slopes as specified in Section 35 20 23, Paragraph 1.7.

3.3.2 Surveys During Progress of Work

Contract depth will be determined by soundings or sweepings taken behind the dredge as work progresses. The Contractor shall take progress soundings or sweepings; contractor shall be able to produce drawings with soundings at any time during dredging operations if requested by the contracting officer.

3.3.3 Monthly Estimates

Monthly estimates of work completed will be based on the result of soundings taken during the progress of the work. Deductions will be made for dredging and disposal not in accordance with the specifications.

3.4 FINAL EXAMINATION AND ACCEPTANCE

As soon as practicable after the completion of areas, which in the opinion of the Contracting Officer, will not be affected by further dredging operations, each area will be examined by the Government by sounding or sweeping, or both. Remove shoals and lumps by dragging the bottom or by dredging. However, if the bottom is soft and the shoal areas form no material obstruction to navigation, removal may be waived at the discretion of the Contracting Officer. The Contractor will be notified when soundings or sweepings are to be made and will be permitted to accompany the sounding or sweeping party and to inspect the data and methods used in preparing the final estimate. When areas are found to be in a satisfactory condition, the work therein will be accepted as complete. Final estimates will be subject to deductions or correction of deductions previously made because of excessive overdepth, dredging outside or authorized areas, or disposal of material in an unauthorized manner.

3.5 MISPLACED MATERIAL

The requirements and methods of dredged material placement for this contract have been planned in accordance with Environmental Permits obtained by the Government for the scheduled work. Any material that is deposited elsewhere than in places designated or in a manner other than that which is approved by the Contracting Officer is in violation of the Environmental Permits and will not be paid for. Additionally, the Contractor may be required to remove such misplaced material and deposit it where directed by the Contracting Officer at the Contractor's expense and be subject to an unsatisfactory performance rating by the Contracting Officer.

-- End of Section --



eProjects WO#: 1371830

FY15 MAINTENANCE DREDGING

At the

**NORFOLK NAVAL SHIPYARD,
PORTSMOUTH, VIRGINIA**

Appendices:

Appendix A: NAO-2010-0439 Permit

FY15 MAINTENANCE DREDGING

at the

**NORFOLK NAVAL SHIPYARD,
PORTSMOUTH, VIRGINIA**

eProjects WO#: 1371830

Contract:

Appendix A: NAO-2010-0439 Permit

MEMORANDUM FOR RECORD

CENAO-WR-R

DATE: 3/19/15

PROJECT NUMBER: NAO-2010-0439 (VMRC# 10-V0281)

SUBJECT: Department of the Army Memorandum Documenting Standard Permit Modification.

Applicant Name: Ms. Elizabeth Nashold
Regional Environmental Group, Code N-45
Commander Navy Region Mid-Atlantic
1510 Gilbert Street
Norfolk, VA 23511-2737

Agent/Consultant: None

Project Location:

Street Address: Norfolk Naval Shipyard, Hitchcock St.
City, County, State: Portsmouth, VA
Waterway: Elizabeth River
Latitude: 36.814387
Longitude: -76.295866
HUC: 02080208

Authority: Section 10 Section 404 Section 103

Waters of the US: The project is located in the Elizabeth River (a TNW).

Project Description (*Describe activities in waters of the U.S. considered for verification*):

The applicant is requesting a modification to an existing DA Standard Permit, issued 11/2/2010, which authorized the demolition, dredging, and construction associated with the removal of the existing Piers 4 and 5 and the construction of a new Pier 5 at Norfolk Naval Shipyard, Portsmouth, VA. A total volume of 622,000 cubic yards of material was to be removed under this permit; 90,000 CY of subaqueous bottom and 532,000 CY of material from beneath the existing piers and wharf.

The modification request, received 10/22/2014, is for the dredging of up to an additional 70,527 cubic yards of material from Wetslips 3 and 5 and the approach to Dry Dock 8 to the projected depth of -48 feet at mean low water, plus 2 feet of allowable over-dredge (max depth of -50 feet MLW). These areas are in close proximity to the work being performed under this permit and the Navy would like to integrate this maintenance dredging effort with the Pier 5 work. The dredging is proposed to be via clamshell bucket with transportation via bottom dumping scow to Craney Island DMMA re-handling basin. The total volume of material that will be removed under this permit will be 692,527 CY.

NOAA Coordination:

NOAA PRD's response received on 2/5/15 concerning sea turtles and sturgeon:

Based on the analysis that any effects to our listed species will be insignificant or discountable, we concur with your determination that maintenance dredging proposed for NNSY is not likely

to adversely affect any listed species under our jurisdiction. Therefore, no further consultation pursuant to Section 7 of the ESA is required.

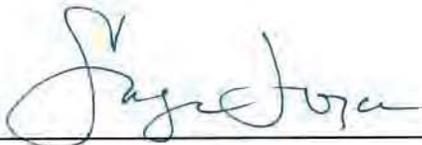
NOAA's response received on 3/6/15 concerning anadromous fish and EFH:

My recent conversation with Eric Brittle, VDGIF fisheries biologist regarding the Navy's proposed dredging of NNSY indicates that the project's location in the watershed and the volume of material to be dredged do not warrant a time of year restriction (TOYR) to protect the migration and spawning of anadromous fish. In addition, NOAA Fisheries service concurs with your determination that the proposed maintenance dredging will not significantly adversely affect EFH.

Project Manager Comments:

The additional amount of dredged material is a small amount as compared to what was originally permitted (11%). Combining the dredging events together will minimize the impacts to the environment, both above and below the water, by reducing the frequency of work being performed; the duration and frequency of suspended sediment within the water column; the noise and pollution in the area; and the impacts to general navigation while dredging. Combining these events will also allow the Naval Shipyard to better plan the maintenance dredging events in the future to minimize effects to the scheduling of ship repairs.

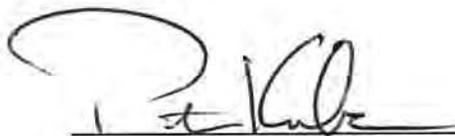
PREPARED BY:



Sage L. Joyce
Project Manager

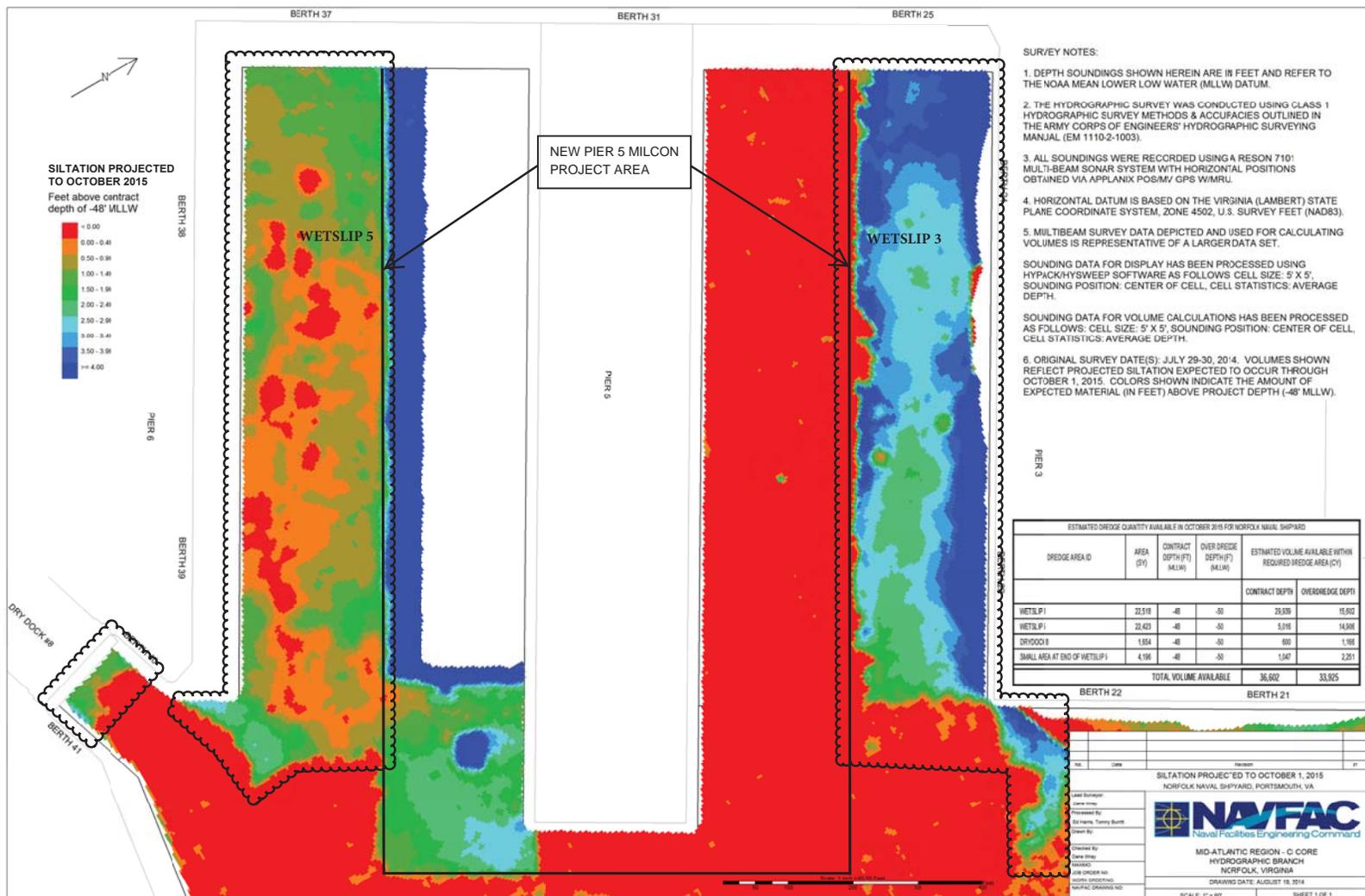
Date 3/19/15

REVIEWED AND APPROVED BY:



Peter R. Kube
Chief, Eastern Virginia Regulatory Section

Date 3/23/15



- SURVEY NOTES:**
1. DEPTH SOUNDINGS SHOWN HEREIN ARE IN FEET AND REFER TO THE NOAA MEAN LOWER LOW WATER (MLLW) DATUM.
 2. THE HYDROGRAPHIC SURVEY WAS CONDUCTED USING CLASS 1 HYDROGRAPHIC SURVEY METHODS & ACCURACIES OUTLINED IN THE ARMY CORPS OF ENGINEERS' HYDROGRAPHIC SURVEYING MANUAL (EM 1110-2-1003).
 3. ALL SOUNDINGS WERE RECORDED USING A RESON 7101 MULTI-BEAM SONAR SYSTEM WITH HORIZONTAL POSITIONS OBTAINED VIA APPLANIX POSIM/ GPS W/MR/L.
 4. HORIZONTAL DATUM IS BASED ON THE VIRGINIA (LAMBERT) STATE PLANE COORDINATE SYSTEM, ZONE 4502, U.S. SURVEY FEET (NAD83).
 5. MULTIBEAM SURVEY DATA DEPICTED AND USED FOR CALCULATING VOLUMES IS REPRESENTATIVE OF A LARGER DATA SET.
- SOUNDING DATA FOR DISPLAY HAS BEEN PROCESSED USING HYPACK/HYSWEEP SOFTWARE AS FOLLOWS: CELL SIZE: 5' X 5'; SOUNDING POSITION: CENTER OF CELL; CELL STATISTICS: AVERAGE DEPTH.
- SOUNDING DATA FOR VOLUME CALCULATIONS HAS BEEN PROCESSED AS FOLLOWS: CELL SIZE: 5' X 5'; SOUNDING POSITION: CENTER OF CELL; CELL STATISTICS: AVERAGE DEPTH.
6. ORIGINAL SURVEY DATE(S): JULY 29-30, 2014. VOLUMES SHOWN REFLECT PROJECTED SILTATION EXPECTED TO OCCUR THROUGH OCTOBER 1, 2015. COLORS SHOWN INDICATE THE AMOUNT OF EXPECTED MATERIAL (IN FEET) ABOVE PROJECT DEPTH (-48' MLLW).

ESTIMATED DREDGE QUANTITY AVAILABLE IN OCTOBER 2015 FOR NORFOLK NAVAL SHIPYARD

DREDGE AREA ID	AREA (CY)	CONTRACT DEPTH (FT) (MLLW)	OVER DREDGE DEPTH (FT) (MLLW)	ESTIMATED VOLUME AVAILABLE WITHIN REQUIRED DREDGE AREA (CY)	
				CONTRACT DEPTH	OVERDREDGE DEPTH
WETSLIP 1	22,318	-48	-50	29,939	15,810
WETSLIP 3	22,423	-48	-50	5,118	14,908
DRYDOCK 8	1,854	-48	-50	800	1,168
SMALL AREA AT END OF WETSLIP 1	4,196	-48	-50	1,047	2,251
TOTAL VOLUME AVAILABLE				36,902	33,925

BERTH 22 BERTH 21

SILTATION PROJECTED TO OCTOBER 1, 2015
NORFOLK NAVAL SHIPYARD, PORTSMOUTH, VA

NAVFAC
Naval Facilities Engineering Command

MID-ATLANTIC REGION - C CORE
HYDROGRAPHIC BRANCH
NORFOLK, VIRGINIA

DRAWING DATE: AUGUST 19, 2014

SCALE: 1" = 60'

SHEET 1 OF 1



Reply to
Attention of

DEPARTMENT OF THE ARMY
US ARMY CORPS OF ENGINEERS
NORFOLK DISTRICT
FORT NORFOLK
803 FRONT STREET
NORFOLK VA 23510-1096

September 26, 2013

Western Virginia Regulatory Section
NAO-2010-0439

Ms. Elizabeth Nashold
Regional Environmental Group, Code N-45
Commander Navy Region Mid-Atlantic
1510 Gilbert Street
Norfolk, VA 23511-2737

Dear Ms. Nashold:

The expiration date of standard permit NAO-2010-0439, issued November 2, 2010 for the Pier 5 replacement Project in Portsmouth, Virginia, is hereby extended to December 31, 2016.

All other conditions of the permit remain unchanged.

Before you begin work, you should obtain all required State and local authorizations or modifications. Please contact Sage Joyce at (757) 201-7182 or at Sage.L.Joyce@usace.army.mil with any questions.

BY AUTHORITY OF THE SECRETARY OF THE ARMY:

FOR AND ON BEHALF OF THE DISTRICT ENGINEER,
Colonel Paul B. Olsen

Sincerely,

A handwritten signature in black ink, appearing to read "Vincent D. Pero".

Vincent D. Pero
Acting Chief, Western Virginia
Regulatory Section



**U.S. Army Corps
Of Engineers**
Norfolk District

Fort Norfolk, 803 Front Street
Norfolk, Virginia 23510-1096

DEPARTMENT OF THE ARMY PERMIT

Permittee: Cheryl Barnett c/o Commander, Navy Region Mid-Atlantic
Permit No.: NAO-10-0439-prk State #10-V0281
Issuing Office: Norfolk District, Corps of Engineers
CRANEY ISLAND DEPOSIT NUMBER: 11-C-0003

Note: The term "you" and its derivatives, as used in this permit, means the permittee or any future transferee. The term "this office" refers to the appropriate district or division office of the Corps of Engineers having jurisdiction over the permitted activity or the appropriate official of that office acting under the authority of the commanding officer.

You are authorized to perform work in accordance with the terms and conditions specified below pursuant to:

- (X) Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403).
- (X) Section 404 of the Clean Water Act (33 U.S.C. 1344).
- () Section 103 of the Marine Protection, Research & Sanctuaries Act of 1972 (33 U.S.C. 1413).

Project Description:

The proposed project involves the demolition of existing Piers 4 and 5, dredging for the new Pier 5 with disposal at the Craney Island Rehandling Basin, construction of a new larger Pier 5, upgrading approximately 1,000 feet of marginal wharf, repaving appropriate areas, and construction of new support buildings according to the plans entitled, "Norfolk Naval Shipyard Portsmouth, VA P516 - Ship Repair Pier 5 Replacement" dated December 7, 2009. Demolition activities will include existing Piers 4 and 5, Berth 31, approximately 175 linear feet of Berth 25 north from Pier 4, approximately 202 linear feet of Berth 37, south from existing Pier 5 and all of the area from the waterfront berths to the eastern crane rail on Hitchcock Street, including all the utilities in these areas. Dredging and future maintenance dredging will be accomplished via mechanical excavation of approximately 622,000 cubic yards of material, 90,000 cubic yards of subaqueous bottom plus 532,000 cubic yards of material beneath the existing piers and wharf, to a depth of -47 feet Shipyard Low Water Datum (-46.05 feet MLW) plus 2 feet of allowable over-dredge (max depth = -48.05 feet MLW). New Pier 5 will be 230 feet wide 1,225 feet long and capable of servicing all ships in the Navy fleet.

The P-516 Ship Repair Pier 5 Replacement Project will require removal of approximately 622,000 cubic yards of dredged material, including material currently permitted for removal under the Navy's existing maintenance dredging permit.

Material to be removed under maintenance dredging Permit #05-1115

- 1 Areas adjacent to and channelward of existing Piers 4 & 5 - 81,000 cubic yards. Disposal at Craney Island.

New dredging under this permit application

- 1 Along the perimeter of the existing piers and wharf: 9,000 cubic yards with disposal at Craney Island.
- 2 Inside Piers 4 and 5: 522,000 cubic yards with disposal at Craney Island.
- 3 Inside the Hitchcock Street Wharf, below MHW: 10,000 cubic yards. All material excavated above MHW along the Hitchcock Street Wharf will be deposited at an approved upland site, not at Craney Island.

Dredging inside Piers 4 and 5 will occur with concrete sheet pile walls and temporary bracing in place until all sediment below the relieving platform is removed down to an approximate elevation of -34.5 feet (SLWD). This is -33.55 feet MLW. By leaving the walls in place, the materials under the piers will be isolated from surrounding waters, and minimize impacts from sediments that might otherwise be dispersed. Once the designated depth is reached, the walls may be removed and materials under the piers dredged at the same time as materials along the outside perimeter (Attachment 1-Sheets CN 101, 102, 102A, 103, 104, 105, 301, 302, 303, and 304),

The purpose of the Pier 5 Replacement project is to provide adequate and improved facilities at NNSY for repairing all classes of US Naval vessels, particularly modern nuclear submarines and aircraft carriers. The project will maintain the NNSY's capability to perform maintenance on all existing and future classes of ships. The P-516 Ship Repair Pier 5 Replacement project is needed because of the current deteriorated condition of existing Piers 4 and 5, and the evolving design of US Naval vessels. Of particular concern are the newer classes of aircraft carriers and submarines which require better servicing capabilities than are currently available at the piers.

Project Location: Project is located at the Norfolk Naval Shipyard situated in the waters of the Southern Branch of The Elizabeth River in the City of Portsmouth, Virginia.

Project Specific Conditions:

1. Prior to the commencement of any work authorized by this permit, you shall advise the project manager, Peter Kube, in writing at: Norfolk District, Corps of Engineers, 803 Front Street, Norfolk, VA 23510 of the time the authorized activity will commence and the name and telephone number of all contractors or other persons performing the work. A copy of this permit and drawings must be provided to the contractor and made available to any regulatory representative during an inspection of the project site.
2. The time limit for completing the work authorized ends on November 2, 2013. Should you be unable to complete the authorized activity in the time limit provided, you must submit your request for a time extension to this office for consideration at least one month before the permit expiration date.
3. Enclosed is a "compliance certification" form, which must be signed and returned within 30 days of completion of the project, including any

required mitigation. Your signature on this form certifies that you have completed the work in accordance with the permit terms and conditions.

4. When the work authorized herein includes periodic maintenance dredging, it may be performed under this permit for 10 years from the date of issuance of this permit. You must advise this office in writing, at least two weeks before you start maintenance dredging activities under the authority of this permit.
5. This permit does not authorize any double handling of dredged material in waters and/or wetlands.
6. The enclosed drawings indicate a project depth(s) of -48.05 feet at mean low water within the proposed channel(s) and boat basin(s). You are authorized to dredge to a permitted depth(s) of -48.05 feet at mean low water, per the enclosed drawings. This permitted depth includes any advance maintenance, allowable overdepth, and/or margin of error, and must not be exceeded in order to be in compliance with this permit. Exceeding the project depths shown on the drawings will be considered a violation of the terms and conditions of the permit. In order to ensure permit compliance, if you contract for this work, the terms of the agreement should not require dredging depths that exceed the permitted depths.
7. Barges and scows used to transport dredged material may be filled only to a point where no overflow occurs. No overflow pipes are allowed.
8. Within 30 days of completion of the dredging, an after-dredge hydrographic survey, prepared by a state-certified engineer or surveyor, must be provided to the Corps. Within 30 days of completion of the dredging, an after-dredge hydrographic survey, prepared by a state-certified engineer or surveyor, must be provided to the Corps. The hydrographic survey should reference a local tidal or geodetic datum.

Craney Island Conditions:

The following conditions apply to the use of Craney Island Dredged Material Area (CIDMA) and the Craney Island Rehandling Basin (CIRB)":

- a. The dredged material will be transported by barge (*note: change if pipeline will be used instead*) to Craney Island Dredged Material Management Area (CIDMMA) and the Craney Island Rehandling Basin (CIRB). If the CIDMMA or the CIRB becomes unavailable for use as a dredged material placement area during the terms of this authorization, you will be responsible for finding an alternate placement area and having it approved by this office prior to any further dredging.
- b. Permitted users of CIDMMA and all associated dredged material placement operations shall comply with Army Corps of Engineers, Norfolk District, District Regulation, DR-1130-2-4, "Deposition Of Dredged Material Into The Craney Island Dredged Material Management Area, Norfolk Harbor, Virginia", dated 15 April 2005.

- c. The attached form entitled "Deposit of Material into Craney Island" (NOA Form 66) must be completed prior to depositing material into the CIDMMA and Rehandling Basin. Please be advised that it is the permittee's responsibility to ensure that the Corps receives the appropriate payments. Contact our Operations Support Section at (757) 201-7642 or 7645 to obtain current conditions and toll rates at CIDMMA.
- d. The permittee is advised that the prime contractor performing the dredging project must obtain a Real Estate license from the Norfolk District Real Estate Office prior to the commencement of any work which would utilize the CIDMMA or Government Bulkhead Facilities at the CIRB. The permittee/prime contractor should contact the Norfolk District Real Estate Acquisition, Management, and Disposal Section at (757) 201-7736 for further information regarding the Department of the Army License.
- e. The applicant will advise our Operations Support Section of the quantities of material dredged and placed in the CIDMA or the CIRB. The attached form entitled "Deposit of Dredged Material into Craney Island" will be completed and submitted in the time frame noted on NAO Form 66. Before and after dredging hydrographic surveys and yardage calculations shall be performed and certified by a Professional Engineer or Land Surveyor. You may contact our Surveying Engineering Section at (757) 201-7017 for local survey and tidal datum information. All surveys, maps, and calculations will conform to recognized professional standards and one copy will be sent to our Operations Support Section when the project is completed.
- f. The permittee shall pay certain tolls, which have been established to comply with the Federal legislation authorizing construction of the CIDMA. The permittee acknowledges he is liable for paying the CIDMA and CIRB tolls. The rates are established at amounts, which will cover amortization of the facilities used plus operation, maintenance and rehandling costs. Since cost of operation, maintenance, and rehandling vary from year to year, the tolls will vary. Late charges will be applied to all overdue payments at a percentage rate based on the current value of funds available to the U.S. Treasury. The charges will be applied for each 30-day period the account is overdue. It is the permittee's responsibility to remain informed of any changes in these rates during the life of this authorization. Toll rates are for the use of the disposal facilities only, and are in addition to any charges for inspection or supervision.
- g. The following security requirements must be adhered to for all dredging projects where direct pumping into CIDMA is proposed: Entry to the reservation for vehicular traffic shall be through the main gate on the entrance road. This gate will be open during normal working hours. At all other times this gate shall remain locked in order to deny access to unauthorized persons. The permittee shall assure that satisfactory arrangements are made for security at the gate. The Chief, Craney Island Project Office may require the permittee to furnish a watchman who shall be responsible for keeping the gate locked and admitting only authorized personnel.

- h. When dredging near deteriorating bulkheads or piers, or areas where large amounts of debris are present in the dredged material, dredged material deposited into the CIRB will pass through a debris grid. The maximum opening of the grid size shall be 12 inches by 12 inches that covers the entire loading area of the dump scow. Everything that does not pass through the grid will be considered solid debris and will be disposed of off Craney Island. The permittee/contractor will provide all necessary equipment, dumpsters, and labor to remove the debris from Craney Island. The permittee/contractor will coordinate all operations with the Chief, Craney Island Project Office before starting dredging. No stock piling of debris on the Craney Island bulkhead will be allowed. The contractor at his expense will repair any damage to the bulkhead.
- i. Excess excavated material not used as backfill for the trench will be placed on an upland site and stabilized to prevent its return to the waterway.
- j. National Ocean Service (NOS) has been notified of this authorization. You must notify NOS and this office in writing, at least two weeks before you begin work and upon completion of the activity authorized by this permit. Your notification of completion must include a drawing which certifies the location and configuration of the completed activity (a certified permit drawing may be used). Notifications to NOS will be sent to the following address: National Oceanic and Atmospheric Administration, National Ocean Service, ATTN: Ms. Lyn Preston, Silver Springs Metro Center Building #3, National Ocean Service Headquarters, 1315 East West Highway, Silver Springs, MD 20910.
- k. You must install and maintain, at your expense, any safety lights and signals prescribed by the United States Coast Guard (USCG), through regulations or otherwise, on your authorized facilities. The USCG may be reached at the following address and telephone number: Commander (oan), Fifth Coast Guard District, Federal Building, 431 Crawford Street, Portsmouth, Virginia 23704, ATTN: Mr. John Walters, telephone number (757) 398-6230.

Special Conditions:

All project specific conditions listed above are special conditions of this permit.

1. No discharge of dredged or fill material may consist of unsuitable material (e.g.: trash, debris, car bodies, asphalt etc.) and material discharged must be free from toxic pollutants in toxic amounts (see Section 307 of the Clean Water Act).
2. Any temporary fills must be removed in their entirety and the affected areas returned to their preexisting elevation.
3. Appropriate erosion and siltation controls must be used and maintained in effective operating condition during construction, and all exposed soil and other fills, as well as any work below the ordinary high water

mark or high tide line, must be permanently stabilized at the earliest practicable date.

4. The construction or work authorized by this permit will be conducted in a manner so as to minimize any degradation of water quality and/or damage to aquatic life. Also, you will employ measures to prevent or control spills of fuels or lubricants from entering the waterway.
5. Any heavy equipment working in wetlands other than those permitted for permanent impact must be placed on mats or other measures must be taken to minimize soil disturbance.
6. Failure to comply with the terms and conditions of this permit can result in enforcement actions against the permittee and/or contractor.
7. In granting an authorization pursuant to this permit, the Norfolk District has relied on the information and data provided by the permittee. If, subsequent to notification by the Corps that a project qualifies for this permit, such information and data prove to be materially false or materially incomplete, the authorization may be suspended or revoked, in whole or in part, and/or the Government may institute appropriate legal proceedings.
8. All dredging and/or filling will be done so as to minimize disturbance of the bottom or turbidity increases in the water which tend to degrade water quality and damage aquatic life.
9. Your use of the permitted activity must not interfere with the public's right to reasonable navigation on all navigable waters of the United States.

General Conditions:

1. You must maintain the activity authorized by this permit in good condition and in conformance with the terms and conditions of this permit. You are not relieved of this requirement if you abandon the permitted activity, although you may make a good faith transfer to a third party in compliance with General Condition 3 below. Should you wish to cease to maintain the authorized activity or should you desire to abandon it without a good faith transfer, you must obtain a modification of this permit from this office, which may require restoration of the area.
2. If you discover any previously unknown historic or archaeological remains while accomplishing the activity authorized by this permit, you must immediately stop work and notify this office of what you have found. We will initiate the Federal and state coordination required to determine if the remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.
3. If you sell the property associated with this permit, you must obtain the signature of the new owner in the space provided and forward a copy of the permit to this office to validate the transfer of this authorization.

4. If a conditioned water quality certification has been issued for your project, you must comply with the conditions specified in the certification as special conditions to this permit.
5. You must allow representatives from this office to inspect the authorized activity at any time deemed necessary to ensure that it is being or has been accomplished in accordance with the terms and conditions of your permit.
6. The permittee understands and agrees that if future operations by the United States require the removal, relocation, or other alteration, of the structure or work herein authorized, or if, in the opinion of the Secretary of the Army or his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the permittee will be required upon due notice from the Corps of Engineers to remove, relocate, or alter the structural work or obstructions caused thereby without expense to the United States. No claim shall be made against the United States on account of any such removal or alternation.

Further Information:

1. Limits of this authorization:

- a. This permit does not obviate the need to obtain other Federal, state or local authorizations required by law.
- b. This permit does not grant any property rights or exclusive privileges.
- c. This permit does not authorize any injury to the property or rights of others.
- d. This permit does not authorize interference with any existing or proposed Federal projects.

2. Limits of Federal Liability: In issuing this permit, the Federal Government does not assume any liability for the following:

- a. Damages to the permitted project or uses thereof as a result of other permitted or unpermitted activities or from natural causes.
- b. Damages to the permitted project or uses thereof as a result of current or future activities undertaken by or on behalf of the United States in the public interest.
- c. Damages to persons, property, or to other permitted or unpermitted activities or structures caused by the activity authorized by this permit.
- d. Design or construction deficiencies associated with the permitted work.
- e. Damage claims associated with any future modification, suspension, or revocation of this permit.

3. Reliance on Applicant's Data: The determination of this office that issuance of this permit is not contrary to the public interest was made in reliance on the information you provided.

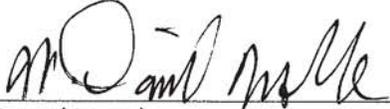
4. Reevaluation of Permit Decision: This office may reevaluate its decision on this permit at any time the circumstances warrant. Circumstances that could require a reevaluation include, but are not limited to, the following:

- a. You fail to comply with the terms and conditions of this permit.
- b. The information provided by you in support of your permit application proves to have been false, incomplete, or inaccurate (See 3 above).
- c. Significant new information surfaces which this office did not consider in reaching the original public interest decision.

Such a reevaluation may result in a determination that it is appropriate to use the suspension, modification, and revocation procedures contained in 33 CFR 325.7 or enforcement procedures such as those contained in 33 CFR 326.4 and 326.5. The referenced enforcement procedures provide for the issuance of an administrative order requiring you to comply with the terms and conditions of your permit and for the initiation of legal action where appropriate. You will be required to pay for any corrective measures ordered by this office, and if you fail to comply with such directive, this office may in certain situations (such as those specified in 33 CFR 209.170) accomplish the corrective measures by contract or otherwise and bill you for the cost.

5. Extensions: Project Specific Condition #2 establishes a time limit for the completion of the activity authorized by this permit. Unless there are circumstances requiring either a prompt completion of the authorized activity or a reevaluation of the public interest decision, the Corps will normally give favorable consideration to a request for an extension of this time limit.

Your signature below, as a permittee, indicates that you accept and agree to comply with the terms and conditions of this permit.

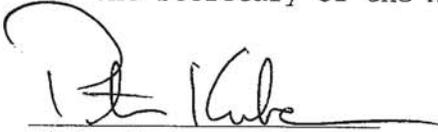


(Permittee)

1/4/11

(Date)

This permit becomes effective when the Federal official, designated to act for the Secretary of the Army, has signed below.



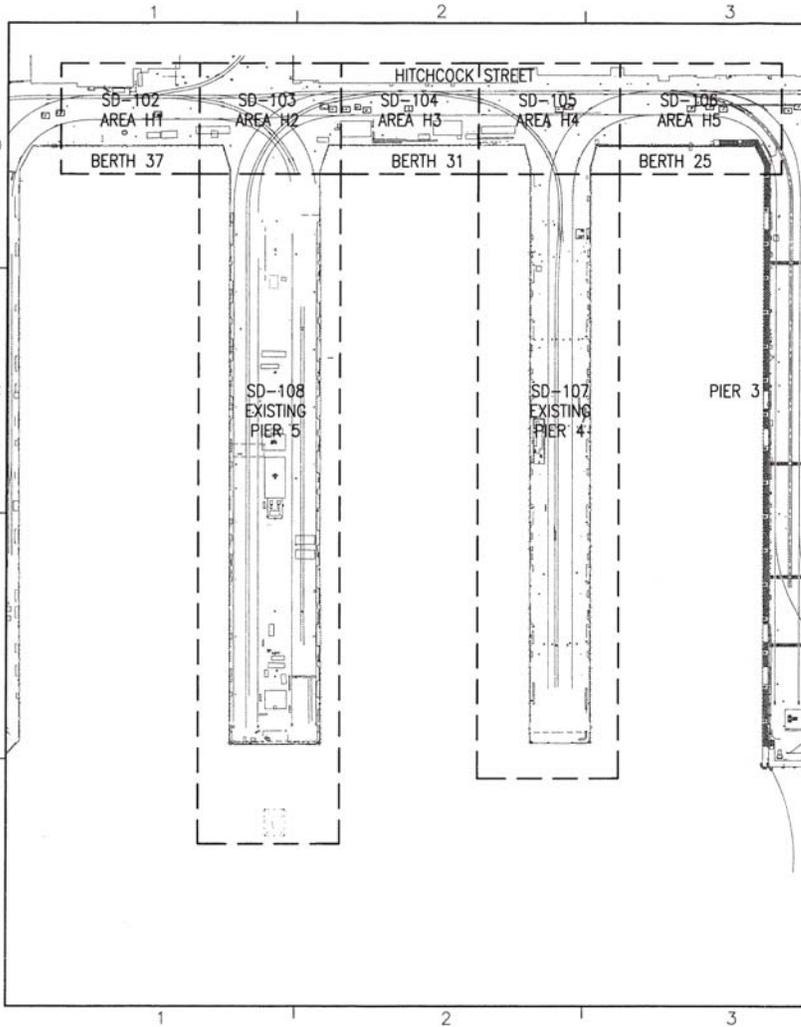
Richard E. Henderson
Acting Chief, Regulatory Branch

1/7/11
(Date)

When the structures or work authorized by this permit are still in existence at the time the property is transferred, the terms and conditions of this permit will continue to be binding on the new owner(s) of the property. To validate the transfer of this permit and the associated liabilities associated with compliance with its terms and conditions, have the transferee sign and date below.

(Transferee)

Date



DEMOLITION - GENERAL NOTES:

1. FOR GENERAL CONSTRUCTION SEQUENCE AND ADDITIONAL NOTES, SEE SHEETS S-003 & S-004.
2. EXISTING CONDITIONS SHOWN IN THE DRAWINGS ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY DIMENSIONS WHERE REQUIRED.
3. FOR DEMOLITION OF UTILITIES AND RELATED WORK, SEE DISCIPLINE SPECIFIC DEMOLITION DRAWINGS.
4. CONTRACTOR IS PERMITTED TO SAW CUT OPENING IN THE EXISTING TIMBER DECKING IN ORDER TO INSTALL NEW PILES FOR THE WHARF AT HITCHCOCK STREET.
5. FOR HANDLING AND DISPOSAL OF DEMOLITION WASTE, SEE SPECIFICATIONS.
6. EXISTING BOLLARDS MAY HAVE LEAD FILLED BOLT HOLES. CONTRACTOR WILL REQUIRE SPECIAL DISPOSAL PROCEDURE WHEN THIS CONDITION OCCURS.

PIERS 4 AND 5:

1. FULLY DEMOLISH AND EXTRACT ALL PILES FOR PIERS 4 & 5.
2. IT IS CONTRACTOR'S RESPONSIBILITY TO DESIGN COMPLETE DEMOLITION INCLUDING ALL TEMPORARY BRACINGS FOR PIERS 4 & 5. CONTRACTOR SHALL SUBMIT FOR CONTRACTING OFFICER'S REVIEW ITEMS INCLUDING BUT NOT LIMITED TO, DEMOLITION PLAN, SEQUENCING, DRAWINGS, DESIGN CALCULATIONS, ETC.
3. CONCRETE SHEET PILE WALLS & TEMPORARY BRACINGS SHALL REMAIN IN PLACE UNTIL ALL SEDIMENT BELOW RELIEFING PLATFORM IS REMOVED DOWN TO ELEVATION -34.5 SLUG. DO NOT ALLOW CONCRETE SHEETS TO FALL INTO EXIST BERTHS.
4. FOR HANDLING AND DISPOSAL OF DEMOLITION WASTE SEE SPECIFICATIONS.
5. SOIL PROPERTIES AND PARAMETERS FOR DESIGN OF DEMOLITION ARE INCLUDED, SEE SOIL BORING DRAWINGS AND SPECIFICATIONS.
6. EXISTING DRAWINGS ARE PROVIDED FOR PIERS AND WHERE APPLICABLE FOR HITCHCOCK STREET AS REFERENCE. SEE INDEX OF DRAWINGS. NOTE THAT ACTUAL EXISTING CONDITIONS MAY VARY FROM THESE DRAWINGS.

PIERS 4 AND 5 EXISTING CONDITION NOTES:

CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN FIELD AS REQ'D BEFORE PROCEEDING WITH DEMOLITION AND REPORT EXISTING CONDITION(S) TO THE CONTRACTING OFFICER IF THEY REQUIRE CHANGE IN CONTRACTOR'S DEMOLITION PLAN, SEQUENCING OR DESIGN.

PIER 4:

1. CONTRACTOR SHALL EVALUATE THE CONDITION OF THE EXISTING SEA WALL AND ANCHORAGE SYSTEM PRIOR TO DEVELOPING A TEMPORARY BRACING SYSTEM.
2. THE EXISTING TIE ROD ANCHORAGE SYSTEMS ARE IN POOR CONDITION. CONTRACTOR SHALL NOT RELY ON THEM TO PROVIDE ANCHORAGE.
3. FOR MORE INFORMATION, REFER TO UNDERWATER FACILITIES INSPECTIONS AND ASSESSMENTS AT INSY, JULY 2001. REPORT #OR-6198-OCN. THESE REPORTS ARE FOR INFORMATION ONLY. THE ACCURACY OF THESE REPORTS CANNOT BE VERIFIED AND CONTRACTOR SHALL NOT RELY SOLELY ON THE CONTENT OF THE REPORTS. SEE SPECIFICATIONS FOR REPORT.

PIER 5:

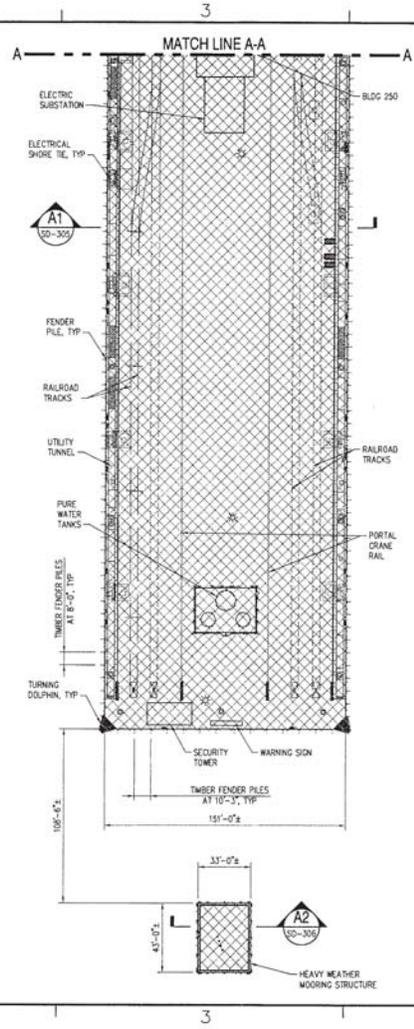
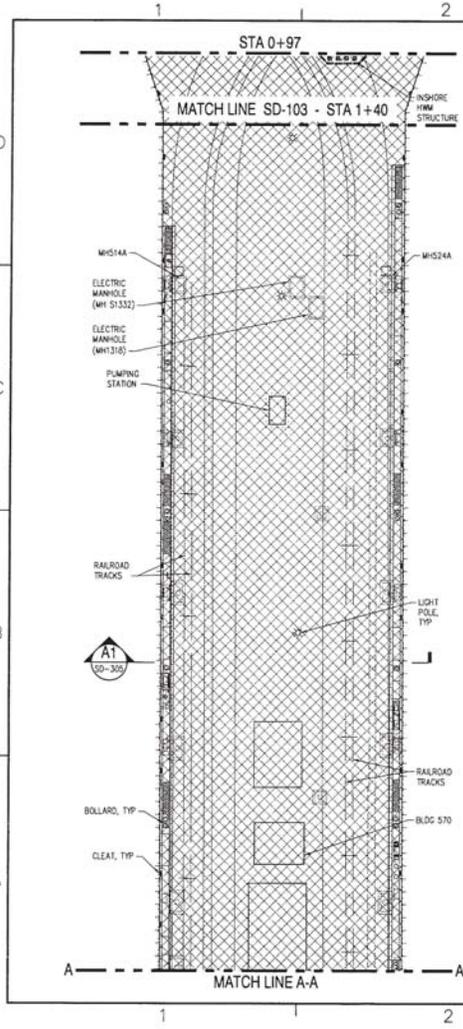
1. CONTRACTOR SHALL EVALUATE THE CONDITION OF THE EXISTING SEA WALL PRIOR TO DEVELOPING A TEMPORARY BRACING SYSTEM.
2. LARGE SINHOLES EXIST AT THE NORTHEAST END OF PIER 5.
3. FOR MORE INFORMATION, REFER TO UNDERWATER FACILITIES INSPECTIONS AND ASSESSMENTS AT INSY, JULY 2001. REPORT #OR-6198-OCN. THESE REPORTS ARE FOR INFORMATION ONLY. THE ACCURACY OF THESE REPORTS CANNOT BE VERIFIED AND CONTRACTOR SHALL NOT RELY SOLELY ON THE CONTENT OF THE REPORTS. SEE SPECIFICATIONS FOR REPORT.

LEGEND:

- COMPLETE DEMOLITION: REMOVE ENTIRE PIER/WHARF STRUCTURE, UON
- PARTIAL DEMOLITION TO INCLUDE, BUT NOT LIMITED TO: PAVEMENT, BALLAST, BUILDING FOUNDATION, CONCRETE CRANE BEAM PILE CAPS, CONCRETE SPALLS, RAILS, TIES, AND UTILITIES DOWN TO THE TOP OF THE TIMBER DECK, UON
- EXTRACT CONCRETE PILE AS REQUIRED TO INSTALL NEW PILES
- DEMOLISH STEEL A-FRAME
- DEMOLISH/EXCAVATE
- EXIST TIMBER BATTERED PILE
- EXIST TIMBER PLUMB PILE
- 20" 50' CONC BATTERED PILE
- CRANE BEAM FOUNDATION TO REMAIN
- CRANE RAIL & BEAM
- CONC TIE BEAM FOUNDATION
- STEEL A-FRAME
- LIMIT OF STRUCTURAL DEMOLITION OF SPECIFIC ITEM
- LIMIT OF DEMOLITION/RAIL DEMOLITION



NO. 101		REV. 1	
NO. 102		REV. 2	
NO. 103		REV. 3	
NO. 104		REV. 4	
NO. 105		REV. 5	
NO. 106		REV. 6	
NO. 107		REV. 7	
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NO. 110		REV. 10	
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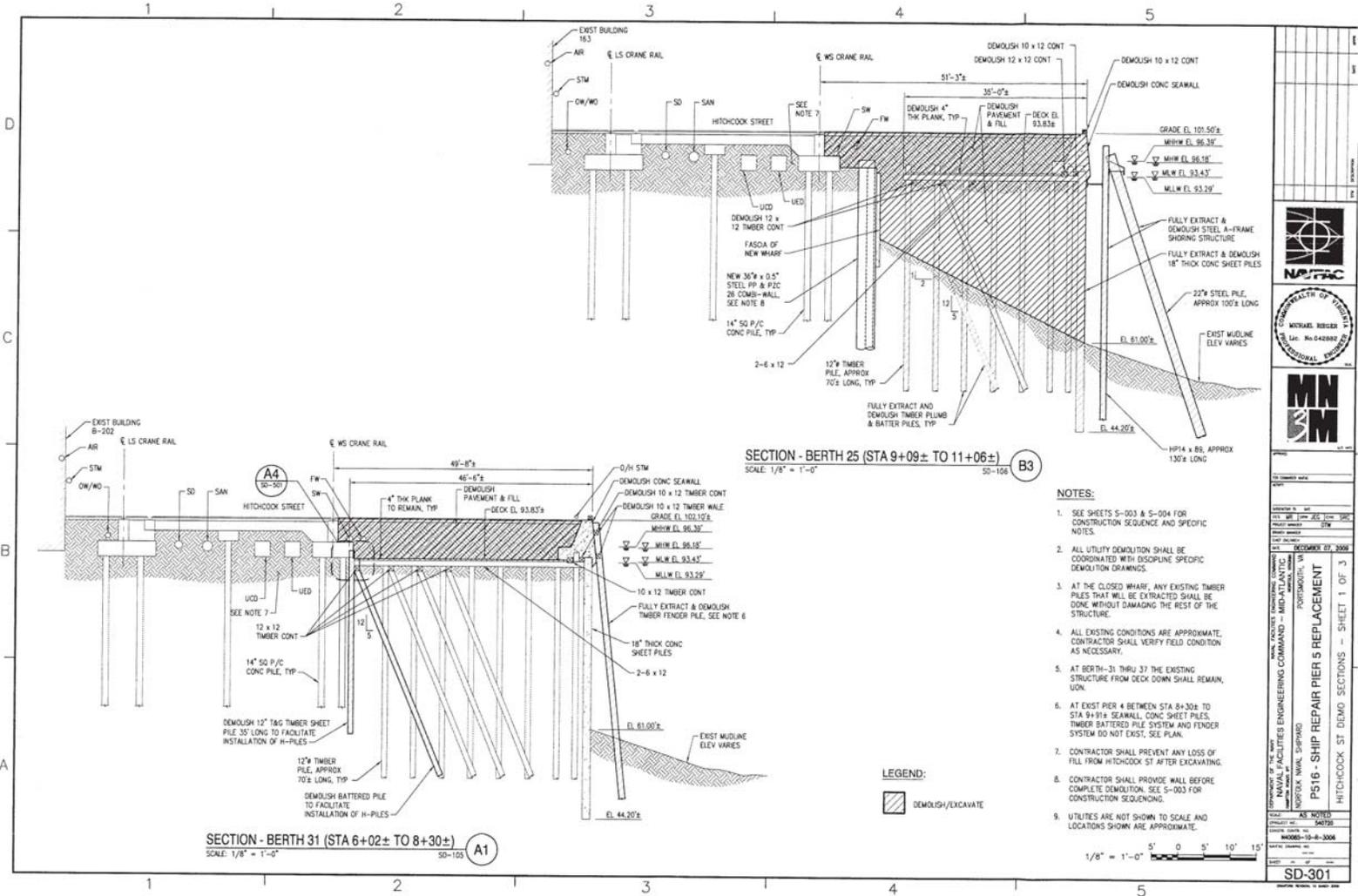
NOTES:

- FOR ADDITIONAL DEMOLITION NOTES AND LEGENDS SEE SHEET SD-101.
- FOR PIER 5 ORIGINAL CONSTRUCTION DRAWINGS, SEE R-027 THRU R-045.
- FOR OFFSHORE HEAVY WEATHER MOORING STRUCTURE DETAIL, REFER TO R-094 THRU R-099 PIER 5 HEAVY WEATHER MOORING STRUCTURE.
- FOR FORKLIFT RAMP INSTALL CONCRETE PAD DETAIL, REFER TO R-106 FORKLIFT RAMP INSTALL CONCRETE PADS.
- FOUNDATION FOR PURE WATER TANK DETAIL, REFER TO R-051 THRU R-053 PIER 5 FOUNDATION FOR PURE WATER TANKS.
- SOUTH SIDE UTILITIES OF THE PIER WERE REPLACED AND STRUCTURAL WORK WAS DONE ON THE UTILITY TUNNEL, REFER TO R-054 THRU R-067 PIER 5 REPLACE UTILITIES - SOUTH SIDE.
- NORTH SIDE UTILITIES OF THE PIER WERE REPLACED AND STRUCTURAL WORK WAS DONE ON THE UTILITY TUNNEL, REFER TO R-068 THRU R-083 PIER 5 REPLACE UTILITIES - NORTH SIDE.
- ELECTRICAL WORK WAS DONE ON THE PIER IN YEAR 1985, REFER TO R-084 THRU R-092 REPLACEMENT OF 500 MCM CABLE WITH 750 MCM CABLE.
- IN YEAR 1999, STRUCTURAL AND UTILITY WORK WAS DONE ON THE PIER INCLUDING ADDING CRANE RAIL FOUNDATION AT THE SHORE END OF PIER, REFER TO R-110 THRU R-126 CRANE RAIL INTERCONNECT AND OILY WASTE/WASTE OIL COLLECTION SYSTEM.
- FOR INSHORE HEAVY WEATHER MOORING DETAIL, REFER TO R-046 THRU R-050.
- REFER TO 'C', 'C0', 'M0' AND 'D' DRAWINGS AND R-429 THRU R-637 FOR EXISTING UTILITIES AND REQUIREMENTS FOR THEIR DEMOLITION. NOTE THAT ACTUAL CONDITION MAY BE DIFFERENT.
- THE SECURITY TOWER AND WARNING SIGN AT THE END OF PIER 5 SHALL EACH BE DISCONNECTED FROM THEIR CONCRETE FOUNDATION, WITHOUT DAMAGING THEIR EXISTING CONDITION DELIVER AS SALVAGE TO A LOCATION AT NORFOLK NAVAL SHIPYARD AS DIRECTED BY CONTRACTING OFFICER. SEE R-107 THRU R-115 FOR DETAILS OF SECURITY TOWER.
- ORIGINAL FENDER SYSTEM FOR MOST OF THE PROJECT AREA WAS REPLACED IN THE YEAR 1999/2000. SEE R-100 THRU R-105. NOTE THAT DUE TO ONGOING MAINTENANCE AT ANY CURRENT EXISTING CONDITION MAY BE DIFFERENT.

KEY PLAN

1" = 30'

PROJECT NO. SD-108	
SHEET NO. 10 OF 10	
DATE: 07/2008	
PROJECT: NAVAL FACILITIES ENGINEERING COMMAND - MID-ATLANTIC REGIONAL SHIPYARD	
LOCATION: NORFOLK NAVAL SHIPYARD, PORTSMOUTH, VA	
DRAWING NO.: SD-108	
PROJECT NO.: 15-R-3006	
SHEET NO.: 10 OF 10	
SD-108	

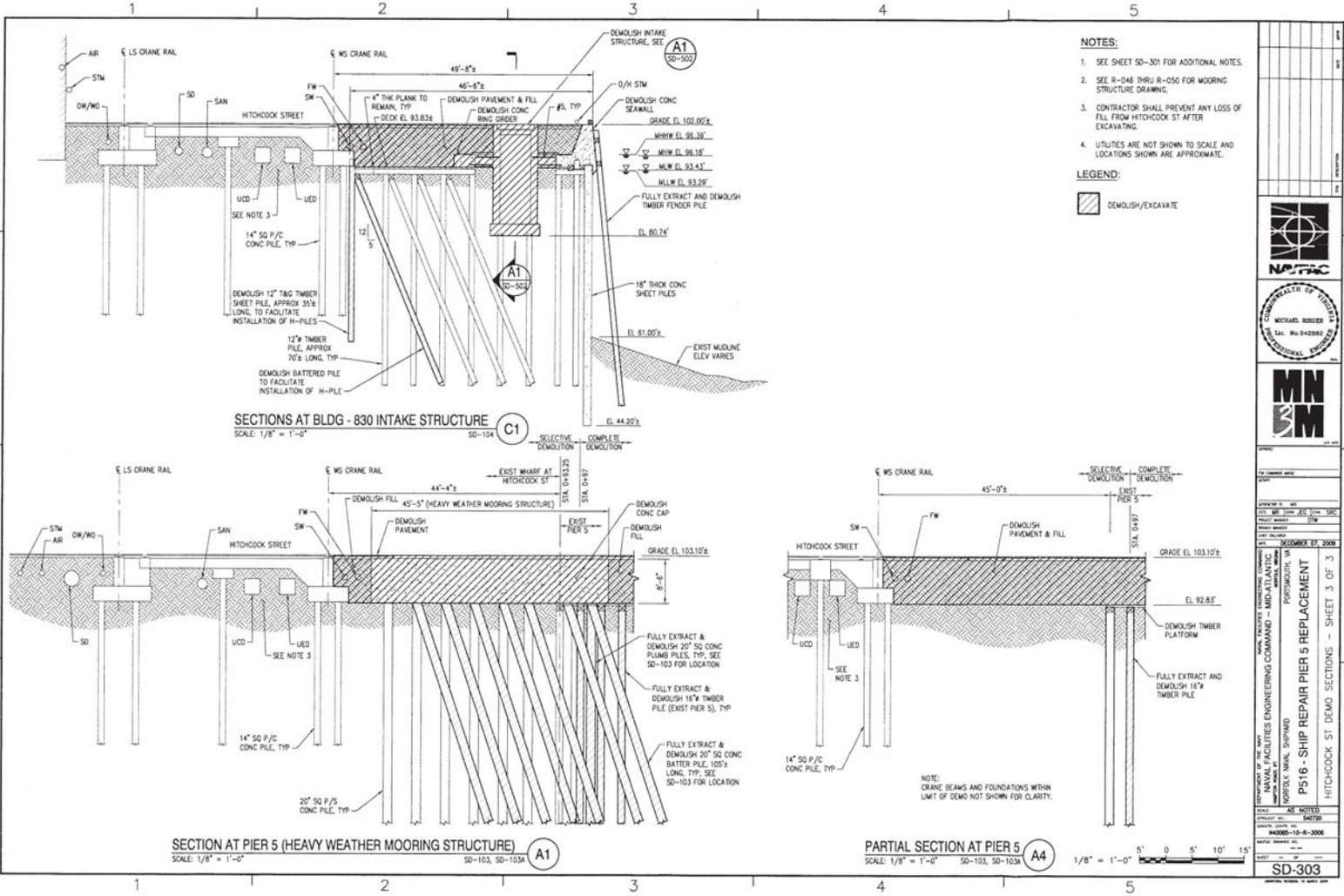


- NOTES:**
- SEE SHEETS S-003 & S-004 FOR CONSTRUCTION SEQUENCE AND SPECIFIC NOTES.
 - ALL UTILITY DEMOLITION SHALL BE COORDINATED WITH DISCIPLINE SPECIFIC DEMOLITION DRAWINGS.
 - AT THE CLOSED WHARF, ANY EXISTING TIMBER PILES THAT WILL BE EXTRACTED SHALL BE DONE WITHOUT DAMAGING THE REST OF THE STRUCTURE.
 - ALL EXISTING CONDITIONS ARE APPROXIMATE. CONTRACTOR SHALL VERIFY FIELD CONDITION AS NECESSARY.
 - AT BERTH-31 THRU 37 THE EXISTING STRUCTURE FROM DECK DOWN SHALL REMAIN, UNLESS NOTED OTHERWISE.
 - AT EXIST PIER 4 BETWEEN STA 8+30± TO STA 9+91± SEAWALL, CONC SHEET PILES, TIMBER BATTERED PILE SYSTEM AND FENDER SYSTEM DO NOT EXIST. SEE PLAN.
 - CONTRACTOR SHALL PREVENT ANY LOSS OF FILL FROM HITCHCOCK ST AFTER EXCAVATING.
 - CONTRACTOR SHALL PROVIDE WALL BEFORE COMPLETE DEMOLITION. SEE S-003 FOR CONSTRUCTION SEQUENCING.
 - UTILITIES ARE NOT SHOWN TO SCALE AND LOCATIONS SHOWN ARE APPROXIMATE.

LEGEND:
 DEMOLISH/EXCAVATE



PROJECT NO. SD-301 DATE: DECEMBER 27, 2008 DRAWN BY: [Name] CHECKED BY: [Name]	
PROJECT: MAINE STATE POLICE TRAINING FACILITY PORTSMOUTH, NEW HAMPSHIRE CONTRACT: MAINE STATE POLICE TRAINING FACILITY P516 - SHIP REPAIR PIER 5 REPLACEMENT HITCHCOCK ST DEMO SECTIONS - SHEET 1 OF 3	
AS NOTED SHEET NO. 54759 PROJECT NO. SD-301	
SD-301	

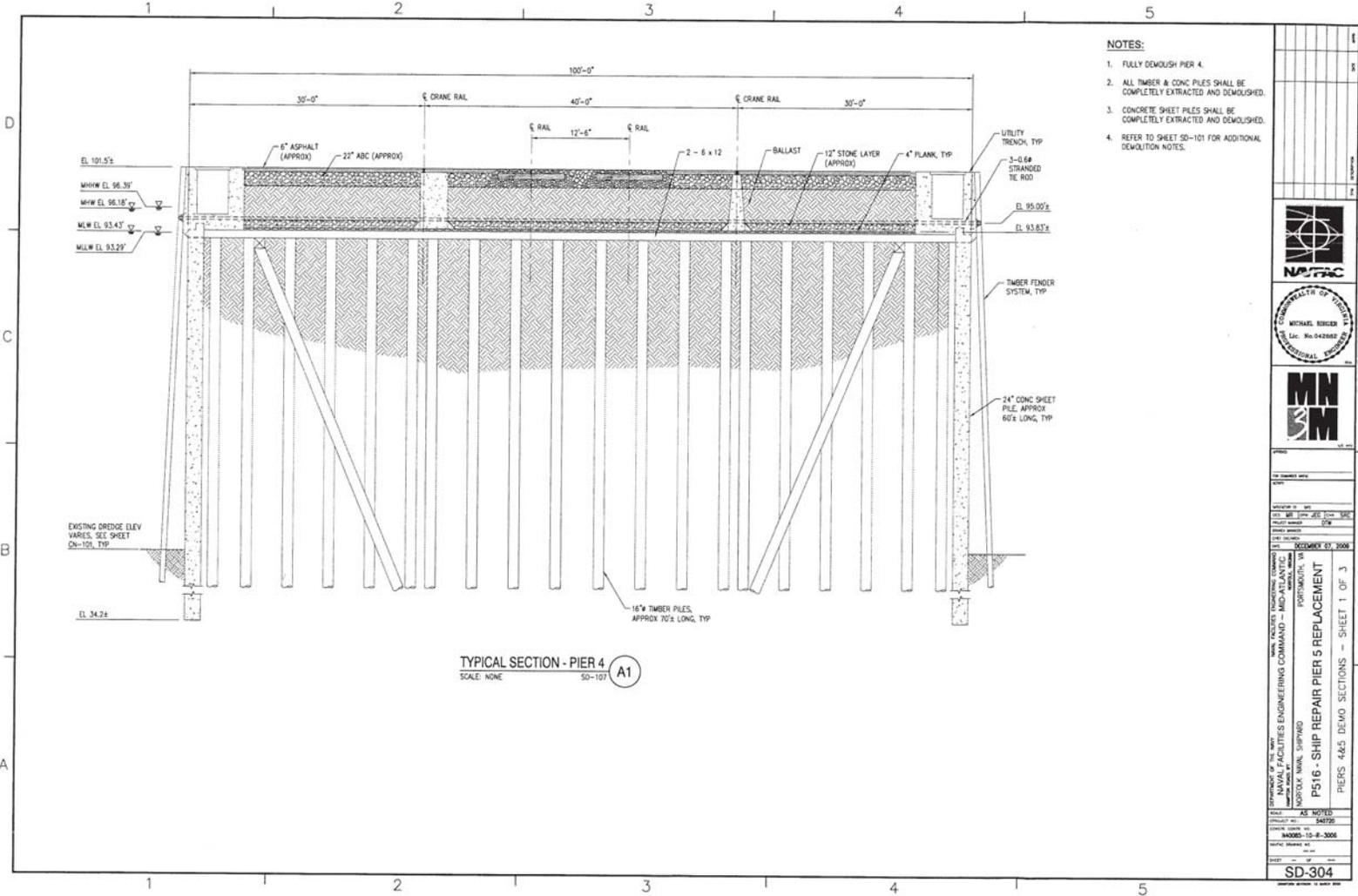


- NOTES:**
- SEE SHEET SD-301 FOR ADDITIONAL NOTES.
 - SEE R-046 THRU R-050 FOR MOORING STRUCTURE DRAWING.
 - CONTRACTOR SHALL PREVENT ANY LOSS OF FILL FROM HITCHCOCK ST AFTER EXCAVATING.
 - UTILITIES ARE NOT SHOWN TO SCALE AND LOCATIONS SHOWN ARE APPROXIMATE.
- LEGEND:**
- DEMOLISH/EXCAVATE

NO. 1	DATE	BY	CHKD	APP'D
NO. 2	DATE	BY	CHKD	APP'D
NO. 3	DATE	BY	CHKD	APP'D
NO. 4	DATE	BY	CHKD	APP'D
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NO. 100	DATE	BY	CHKD	APP'D

SD-303

FILE NAME: P:\30303\30303.dwg
 PLOT DATE: 11/15/2011 10:00 AM
 PLOT BY: J. B. BROWN
 PLOT SCALE: 1/8" = 1'-0"
 PLOT SHEET: 3 OF 3



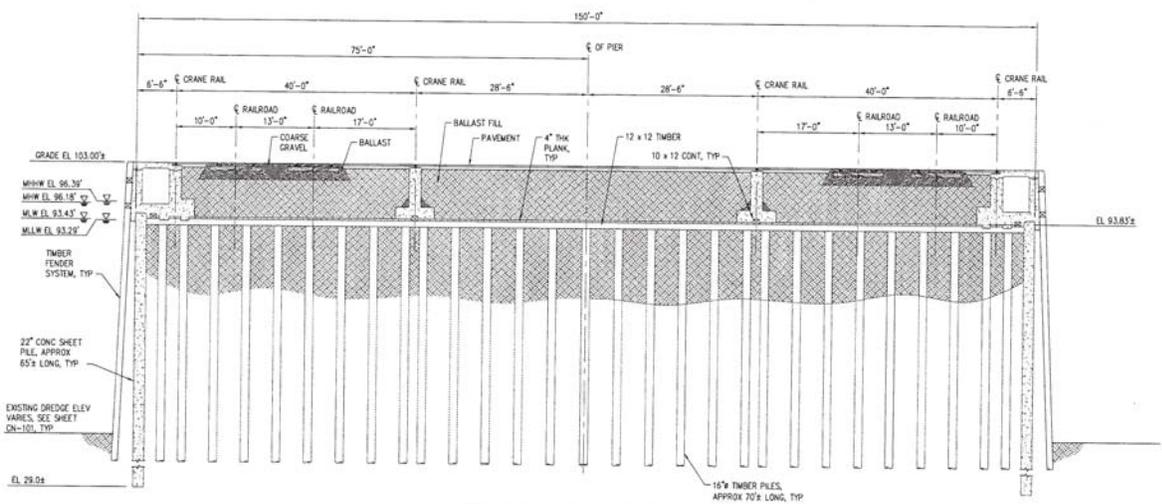
- NOTES:**
1. FULLY DEMOLISH PIER 4.
 2. ALL TIMBER & CONC PILES SHALL BE COMPLETELY EXTRACTED AND DEMOLISHED.
 3. CONCRETE SHEET PILES SHALL BE COMPLETELY EXTRACTED AND DEMOLISHED.
 4. REFER TO SHEET SD-101 FOR ADDITIONAL DEMOLITION NOTES.

TYPICAL SECTION - PIER 4
SCALE: NONE
SD-101 (A1)

PROJECT NO. SD-304 SHEET NO. 1 OF 3 DATE: OCTOBER 27, 2006	
CONTRACTOR: NAVAL FACILITIES ENGINEERING COMMAND - 465 DEVO DIVISION PORTSMOUTH, VA PROJECT: P516 - SHIP REPAIR PIER 5 REPLACEMENT PIER 4&5 DEVO SECTIONS - SHEET 1 OF 3	
DRAWN BY: [Name] CHECKED BY: [Name] APPROVED BY: [Name]	AS NOTED 10/27/06 15-8-3006 SD-304

1 2 3 4 5

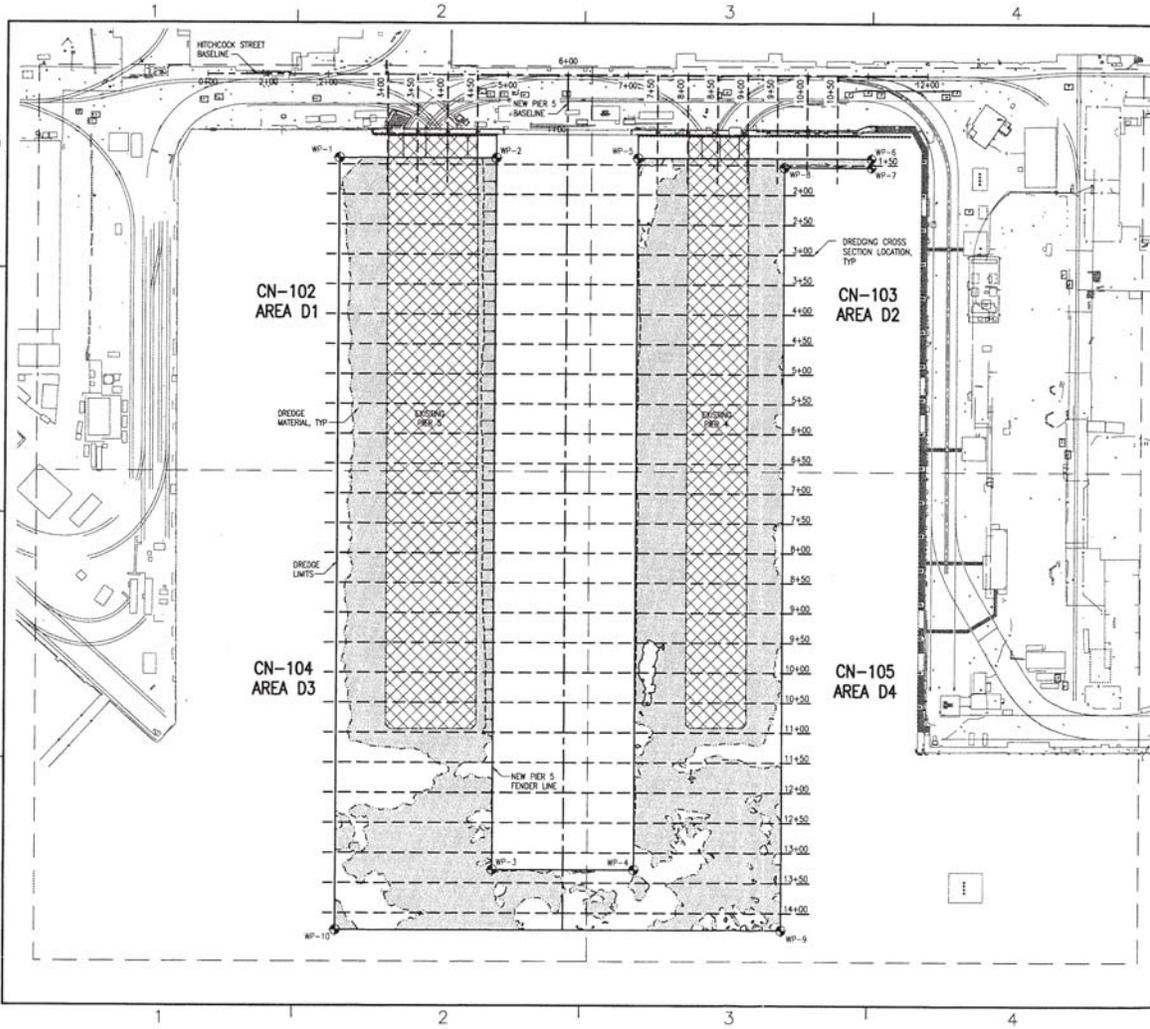
- NOTES:**
1. FULLY DEMOLISH PIER 5.
 2. ALL TIMBER & CONC PILES SHALL BE COMPLETELY EXTRACTED AND DEMOLISHED.
 3. CONCRETE SHEET PILES SHALL BE COMPLETELY EXTRACTED AND DEMOLISHED.
 4. REFER TO SHEET SD-101 FOR ADDITIONAL DEMOLITION NOTES.



TYPICAL SECTION - PIER 5
SCALE: NONE
SD-108 (A1)

1 2 3 4 5

<p>DATE: DECEMBER 07, 2008</p>	
<p>PROJECT: NAVAL FACILITIES ENGINEERING COMMAND - MIDWAYNAVIC PORTFOLIO: NAVAL SHIPYARD PORTFOLIO: NAVAL SHIPYARD PROJECT: P516 - SHIP REPAIR PIER 5 REPLACEMENT PIERS 4&5 DEMO SECTIONS - SHEET 2 OF 3</p>	
<p>SCALE: AS NOTED</p>	<p>PROJECT NO.: 540729</p>
<p>DATE: 10/09/08</p>	<p>PROJECT: 16-8-3006</p>
<p>SD-305</p>	

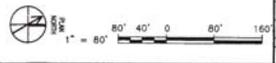


- NOTES:**
- CONTRACTOR SHALL SUBMIT DREDGE PLAN TO CONTRACTING OFFICER FOR APPROVAL THAT INCLUDES:
 - A. A SEQUENCE OF OPERATION.
 - B. MEANS OF PROTECTION FOR EXISTING STRUCTURES.
 - C. INTERFACE WITH ADJACENT WORK.
 - D. LOCATION OF EQUIPMENT.
 - THE CONTRACTOR SHALL PROTECT EXISTING STRUCTURES DURING THE DREDGE PROCESS UNTIL THE DEMOLITION HAS REMOVED THEM WITHOUT IMPACTING SHIPYARD OPERATIONS.
 - FOR DREDGING CROSS SECTIONS ALONG NEW PIER 5 BASELINE, SEE SHEETS CN-305 THRU CN-316.
 - FOR DREDGE CROSS SECTIONS ALONG HITCHCOCK STREET BASELINE, SEE SHEET CN-317.
 - CROSS SECTIONS ARE CUT ORIENTED "UP-STATION".
 - NEGATIVE (-) OFFSET DESIGNATION IS TO THE NORTH OF NEW PIER 5 BASELINE. POSITIVE DESIGNATION IS TO THE SOUTH OF NEW PIER 5 BASELINE.
- DREDGING CONSTRAINTS:**
- SEE SHEETS QC-101 THROUGH QC-105A FOR GENERAL WORK LIMITS.
 - DREDGING OUTSIDE OF EXISTING PIERS 4 AND 5 SHALL NOT COMMENCE UNTIL EXISTING STRUCTURES HAVE BEEN COMPLETELY REMOVED AND CONTAINED MATERIAL HAS BEEN REMOVED TO DEPTH INDICATED.
 - CONTRACTOR SHALL NOT DREDGE WITHIN A MINIMUM OF 50 FEET OF EXISTING HITCHCOCK STREET WHARF (BULKHEAD) UNTIL NEW WHARF HAS BEEN CONSTRUCTED.

- LEGEND:**
- DEMOLITION OF PIERS 4 & 5
 - DREDGE MATERIAL (OUTSIDE EXISTING & NEW PIER LIMITS)

WORK POINT SCHEDULE

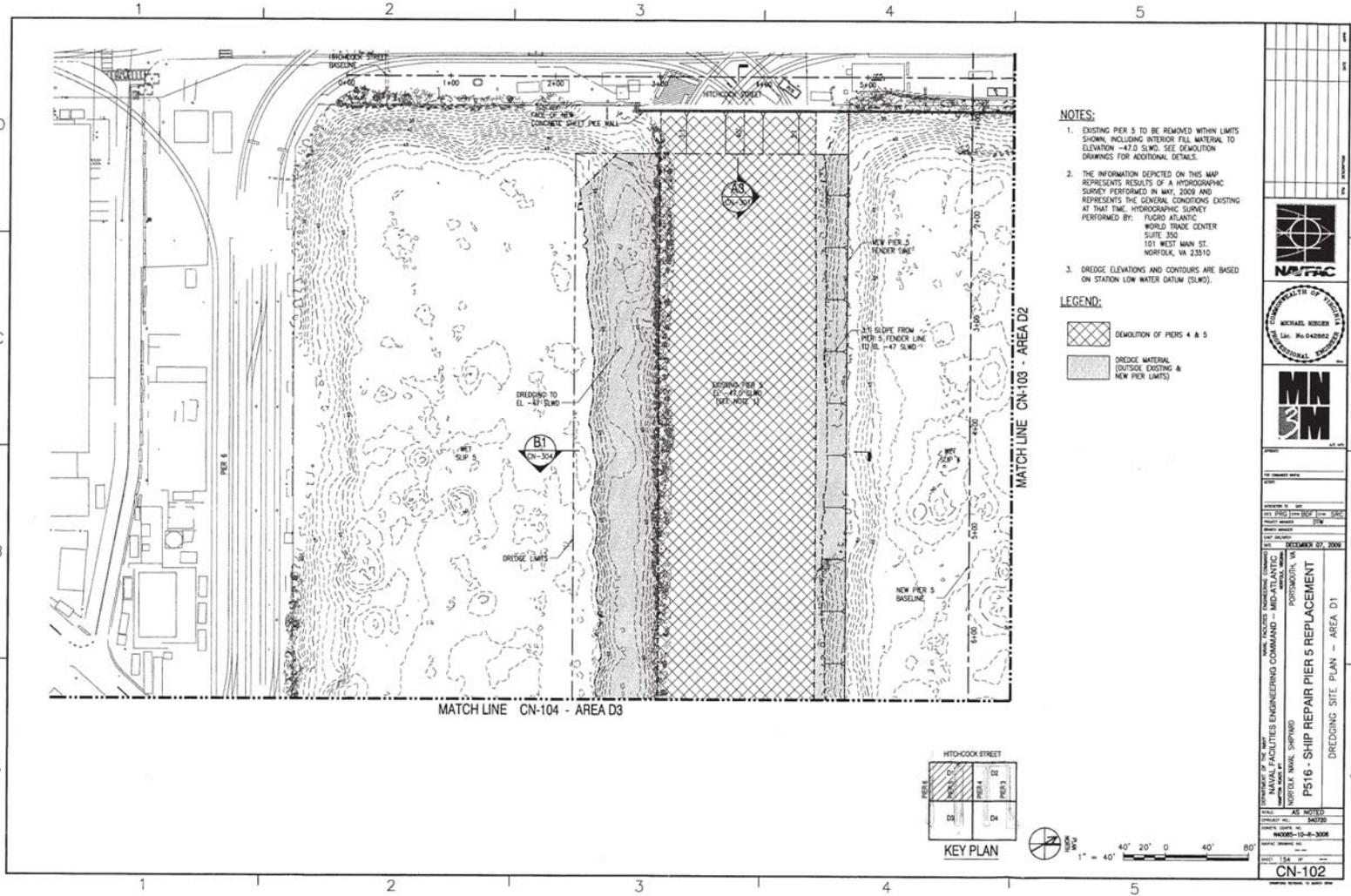
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WP-4	3463440.65	12128432.60
WP-5	3464043.51	12127407.76
WP-6	3464378.68	12127604.63
WP-7	3464371.07	12127612.86
WP-8	3464246.74	12127544.73
WP-9	3463602.07	12128643.57
WP-10	3462960.83	12128266.36



PROJECT NO. 153
 SHEET NO. 101
 DATE: 12/15/10
 DRAWN BY: J. B. [unreadable]
 CHECKED BY: [unreadable]
 APPROVED BY: [unreadable]

CONTRACTOR: [unreadable]
 PROJECT: P516 - SHIP REPAIR PIER 5 REPLACEMENT
 DREDGING KEY PLAN

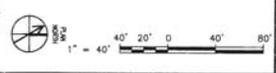
FILE NAME: P:\153\153-101-101.dwg, PLOT DATE: 12/15/10, PLOT SCALE: 1"=80', PLOT SHEET: 101 OF 101, PLOT DATE: 12/15/10



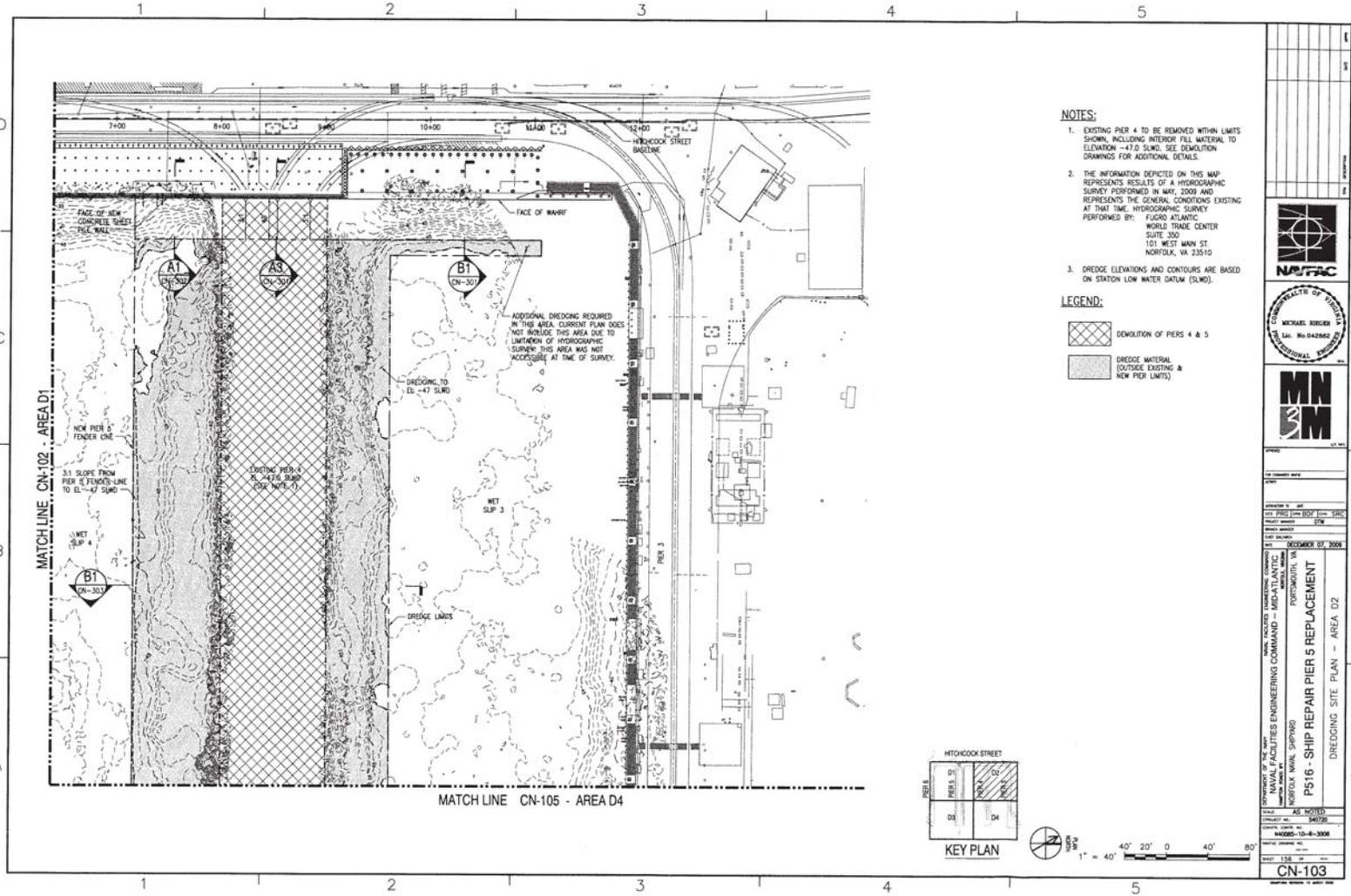
- NOTES:**
- EXISTING PIER 5 TO BE REMOVED WITHIN LIMITS SHOWN, INCLUDING INTERIOR FILL MATERIAL TO ELEVATION -47.0 SLWD. SEE DEMOLITION DRAWINGS FOR ADDITIONAL DETAILS.
 - THE INFORMATION DEPICTED ON THIS MAP REPRESENTS RESULTS OF A HYDROGRAPHIC SURVEY PERFORMED IN MAY, 2003 AND REPRESENTS THE GENERAL CONDITIONS EXISTING AT THAT TIME. HYDROGRAPHIC SURVEY PERFORMED BY: FUGRO ATLANTIC WORLD TRADE CENTER SUITE 350 101 WEST MAIN ST. NORFOLK, VA 23510
 - DREDGE ELEVATIONS AND CONTOURS ARE BASED ON STADION LOW WATER DATUM (SLWD).

- LEGEND:**
- DEMOLITION OF PIERS 4 & 5
 - DREDGE MATERIAL (OUTSIDE EXISTING & NEW PIER LIMITS)

MICHAEL HENNER LICENSED PROFESSIONAL ENGINEER Lic. No. 042882	
PROJECT NO. 03-001 DATE: 12/01/03	
CLIENT: US NAVY PROJECT: P516 - SHIP REPAIR PIER 5 REPLACEMENT LOCATION: NORFOLK NAVAL SHIPYARD PORTSMOUTH, VA	
DRAWING TITLE: DREDGING SITE PLAN - AREA D1 DRAWING NO.: CN-102	



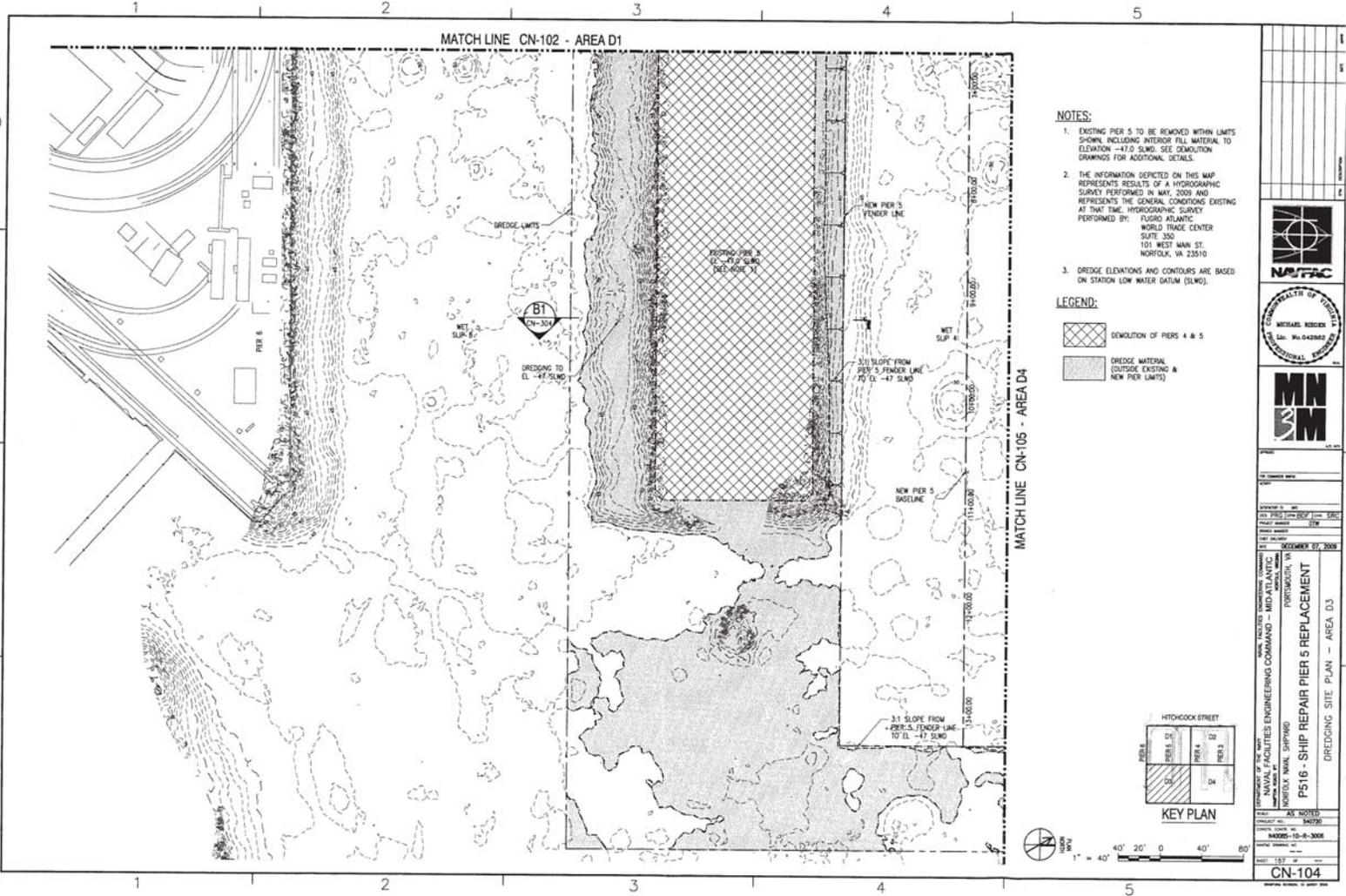
FILE: S:\P516\03-001\03-001-04-102.dwg
 PLOT: 12/01/03 10:45 AM
 PLOTTER: HP DesignJet 540



- NOTES:**
1. EXISTING PIER 4 TO BE REMOVED WITHIN LIMITS SHOWN, INCLUDING INTERIOR FILL MATERIAL TO ELEVATION -47.0 SLWD. SEE DEMOLITION DRAWINGS FOR ADDITIONAL DETAILS.
 2. THE INFORMATION DEPICTED ON THIS MAP REPRESENTS RESULTS OF A HYDROGRAPHIC SURVEY PERFORMED IN MAY, 2009 AND REPRESENTS THE GENERAL CONDITIONS EXISTING AT THAT TIME. HYDROGRAPHIC SURVEY PERFORMED BY: FUGRO ATLANTIC, WORLD TRADE CENTER, SUITE 300, 101 WEST MAIN ST, NORFOLK, VA 23510
 3. DREDGE ELEVATIONS AND CONTOURS ARE BASED ON STATION LOW WATER DATUM (SLWD).

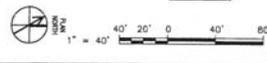
- LEGEND:**
- [Hatched Box] DEMOLITION OF PIERS 4 & 5
 - [Shaded Box] DREDGE MATERIAL (OUTSIDE EXISTING & NEW PIER LIMITS)

MICHAEL BAKER A Division of HOK 10000 WOODBRIDGE BLVD FORT MYERS, FL 33907	
P516 - SHIP REPAIR PIER 5 REPLACEMENT DREDGING SITE PLAN - AREA D2	
PROJECT NO: 1508-15-0-3000 SHEET NO: 1508-15-0-3000-01	DATE: 08/19/09 DRAWN BY: [Name] CHECKED BY: [Name]
AS NOTED	
1" = 40'	
CN-103	



- NOTES:**
- EXISTING PIER 5 TO BE REMOVED WITHIN LIMITS SHOWN, INCLUDING INTERIOR FILL MATERIAL TO ELEVATION -47.0 SLWD. SEE DEMOLITION DRAWINGS FOR ADDITIONAL DETAILS.
 - THE INFORMATION DEPICTED ON THIS MAP REPRESENTS RESULTS OF A HYDROGRAPHIC SURVEY PERFORMED IN MAY, 2009 AND REPRESENTS THE GENERAL CONDITIONS EXISTING AT THAT TIME. HYDROGRAPHIC SURVEY PERFORMED BY: FUGRO ATLANTIC, WORLD TRADE CENTER, SUITE 350, 101 WEST MAIN ST., NORFOLK, VA 23510
 - DREDGE ELEVATIONS AND CONTOURS ARE BASED ON STATION LOW WATER DATUM (SLWD).

- LEGEND:**
- [Cross-hatched symbol] DEMOLITION OF PIERS 4 & 5
 - [Solid grey symbol] DREDGE MATERIAL (OUTSIDE EXISTING & NEW PIER LIMITS)



PROJECT NO. 157	
DATE: DECEMBER 07, 2009	
DRAWN BY: [Name]	
CHECKED BY: [Name]	
APPROVED BY: [Name]	
OFFICE OF THE COMMANDER NAVAL FACILITIES ENGINEERING COMMAND - MID-ATLANTIC NORFOLK NAVAL SHIPYARD NORFOLK, VA 23506	
CN-104	

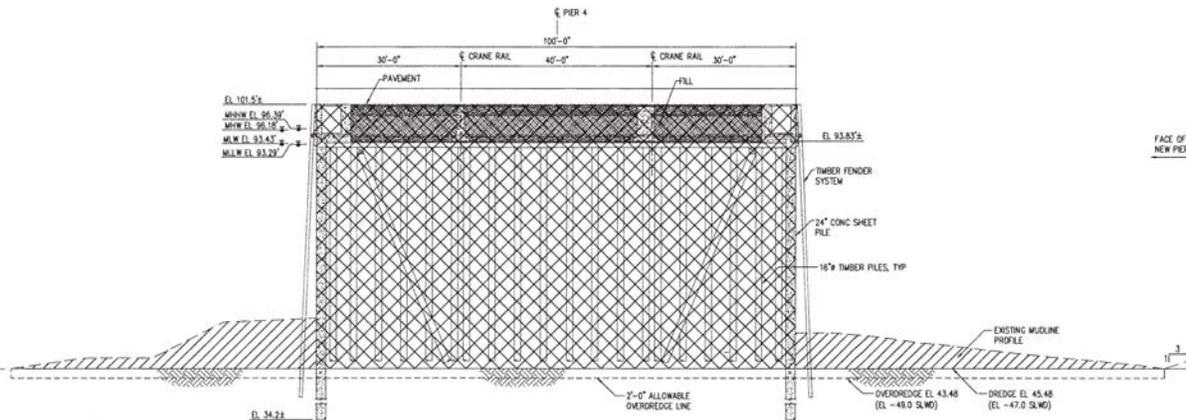
1 2 3 4 5

D

C

B

A



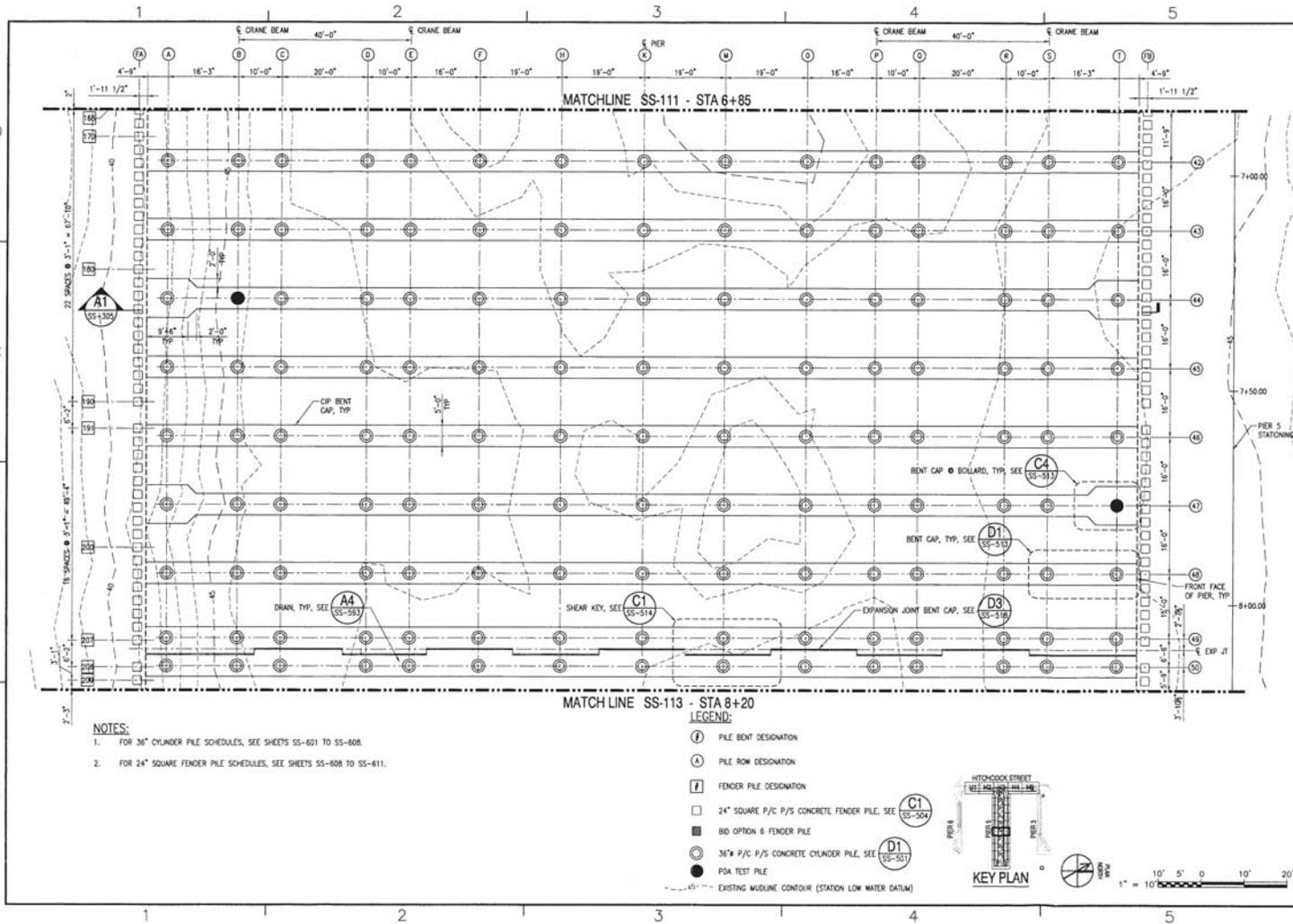
LEGEND:
 DEMOLITION & EXCAVATION
 DREDGE MATERIAL

NOTE:
 SEE 50 SHEETS FOR DEMOLITION SEQUENCING AND DETAILS.

EXISTING PIER 4 SECTION
 SCALE: 1" = 10' (B1)

PROJECT: SHEET: DATE: DRAWN BY: CHECKED BY: APPROVED BY: DATE: SCALE: SHEET NO. SHEET TOTAL	
UNIVERSITY OF VIRGINIA NAVAL FACILITIES ENGINEERING COMMAND - MID-ATLANTIC NORFOLK NAVAL SHIPYARD PORTSMOUTH, VA P516 - SHIP REPAIR PIER 5 REPLACEMENT DREDGING TYPICAL SECTIONS - SHEET 3 OF 4	
PROJECT NO: SHEET NO: DATE: SCALE: SHEET NO: SHEET TOTAL:	
CN-303	

1 2 3 4 5

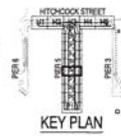


NOTES:

- FOR 36" CYLINDER PILE SCHEDULES, SEE SHEETS SS-601 TO SS-606.
- FOR 24" SQUARE FENDER PILE SCHEDULES, SEE SHEETS SS-408 TO SS-411.

LEGEND:

- FILE BENT DESIGNATION
- PILE ROW DESIGNATION
- FENDER PILE DESIGNATION
- 24" SQUARE P/C P/S CONCRETE FENDER PILE, SEE C1 SS-504
- 24" SQUARE P/C P/S CONCRETE FENDER PILE, SEE D1 SS-507
- 36" P/C P/S CONCRETE CYLINDER PILE, SEE C1 SS-504
- 36" P/C P/S CONCRETE CYLINDER PILE, SEE D1 SS-507
- PDA TEST PILE
- EXISTING MUDLINE CONTOUR (STATION LOW WATER DATUM)



<p>NOVEMBER 20, 2006</p>	
<p>NAVAL FACILITIES ENGINEERING COMMAND - MID-ATLANTIC NAVFAC MDA-42800 PERSIMONT, VA</p>	
<p>PS16 - SHIP REPAIR PIER 5 REPLACEMENT PILE & BENT CAP PLAN - AREA PB</p>	
<p>DATE: 11/17/06</p>	<p>BY: [Signature]</p>
<p>NO. 243</p>	<p>SS-112</p>

