



REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT CORPS OF ENGINEERS
P. O. BOX 4970
JACKSONVILLE, FLORIDA 32232-0019

CESAJ-RD-NJ (1145)

18 June 2014

**MEMORANDUM FOR Commander, United States Navy, Naval Submarine
Base, Kings Bay, GA, 31547-2606**

SUBJECT: Department of the Army Permit Number SAJ-1992-01854(SP-BAL)

1. The U.S. Army Corps of Engineers (Corps) is pleased to enclose the Department of the Army permit, which should be available at the construction site. Work may begin immediately but the Corps must be notified of:
 - a. The date of commencement of the work,
 - b. The dates of work suspensions and resumptions of work, if suspended over a week, and
 - c. The date of final completion.
2. This information should be mailed to the Enforcement Section of the Regulatory Division of the Jacksonville District at P.O. Box 4970, Jacksonville, FL 32232 (Attn: Ms. Dianne Griffin). The Enforcement Section is also responsible for inspections to determine whether Permittees have strictly adhered to permit conditions.
3. Please address any questions concerning this matter to Ms. Bev Lawrence, at (904) 232-2517.

FOR THE COMMANDER:


for ALAN M. DODD
Colonel, Corps of Engineers
Commanding

Encl

Copies Furnished:

More, jim.more@navy.mil

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DEPARTMENT OF THE ARMY PERMIT

Permittee: Commanding Officer
United States Navy
Naval Submarine Base, Kings Bay
1063 USS Tennessee Avenue
Kings Bay, Georgia 31547-2606

Permit No: SAJ-1992-01854(SP-BAL)

Issuing Office: U.S. Army Engineer District, Jacksonville

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.

Project Description: The permittee is authorized to annually maintenance dredge approximately 1,620,000 yards of dredged material for the Kings Bay Entrance Channel (KBEC), also known as the St. Mary's Entrance Channel and the Kings Bay Inner Channel. The work will be conducted by cutter-suction, hopper dredge, or clamshell depending upon the location of the dredge work. All dredging depths are in Mean Low Lower Water (MLLW). The dredge work is as follows:

Main Navigation Channels

- Cut-1N KBEC, Florida portions - (Station (Sta) 00+000 to Sta 501+23.68), Width 500', Depth 51' MLLW (46' dredge depth + 2' allowable over dredge depth + 3' advanced maintenance)
- Cut-2N KBEC - (Sta 00+000 to 250+00), Width 500', Depth 51' MLLW (46' dredge depth + 2' allowable over dredge depth + 3' advanced maintenance)

Other Entrance Channel Segments

- North Turning Basin, Florida portions (Sta 12+50 to 71+00 in Cut 1N), Width 320', Depth 47' MLLW (42' dredge depth + 2' allowable over dredge depth + 3' advanced maintenance)
- South Turning Basin (Sta 12+50 to 71+00 in Cut 1N), Width 320', Depth 47' MLLW (42' dredge depth + 2' allowable over dredge depth + 3' advanced maintenance)

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- North Settling Basin, Florida portions (Sta 119+00 to 227+50 in Cut 1N), Width varies 150' to 300', Depth 51' MLLW (46' dredge depth + 2' allowable over dredge depth + 3' advanced maintenance)
- South Settling Basin (Sta 176+00 to 227+50 in Cut 1N), Width varies 150' to 300', Depth 51' MLLW (46' dredge depth + 2' allowable over dredge depth + 3' advanced maintenance)
- Turning Notch in Lower Cumberland Sound, small triangular section within Range A2 and Range A1, Depth 47' MLLW (45' dredge depth + 2' allowable over dredge depth)
- Turning Notch in Lower Cumberland Sound, eastern portion of Range A, 47' MLLW (45' dredge depth + 2' allowable over dredge depth)

In addition, the permittee is authorized to dispose of the dredged material. Depending on the material characteristics, the dredged material will be placed in the following disposal areas:

Beach Disposal

Beach quality dredged material would be placed on Amelia Island beaches in the following locations:

- Within and around the Ft. Clinch State Park and continuing eastward to DEP monument R-4 (Ft. Clinch Groin and Western Disposal Area).
- The north beach placement area, which starts at the southern boundary of Ft. Clinch State Park (in the vicinity of DEP monument R-13) and continues for approximately 3.2 miles.
- The south beach placement area, which starts 2.5 miles south of the north beach placement area and continues for approximately 5.2 miles (between DEP monuments R-47 to R-79).
- The base of the south jetty (from R-7.5 to R-9) along the northern end of Amelia Island.

Nearshore Disposal

- Near beach quality material will be placed at the nearshore disposal area offshore Amelia Island in Florida. The nearshore disposal area is located off of Amelia Island, Florida, between the two beach placement areas (2.5 miles in length), which runs parallel to the beach and extends from mean high water to approximately -35 ft MLLW.

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The work described above is to be completed in accordance with the 27 pages of drawings and attachments affixed at the end of this permit instrument.

Project Locations: The dredge project is located in navigable waters of the United States associated with the Kings Bay Entrance Channel (within Cumberland Sound and Atlantic Ocean) in Nassau County, Florida. There are four placement locations for discharge of the dredged material, which are: Fort Clinch groin and western disposal area, north beach disposal area, south beach disposal area, and nearshore disposal area which are located in Fernandina Beach, Nassau County, Florida.

LATITUDE & LONGITUDE (Center Coordinate in the Entrance Channel between Florida and Georgia): Latitude 30.70886, Longitude: -81.45224

Permit Conditions

General Conditions:

1. The time limit for completing the work authorized ends on **18 June 2024**. If you find that you need more time to complete the authorized activity, submit your request for a time extension to this office for consideration at least one month before the above date is reached.
2. 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 4 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.
3. If you discover any previously unknown historic or archeological remains while accomplishing the activity authorized by this permit, you must immediately 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.
4. If you sell the property associated with this permit, you must obtain the signature and the mailing address 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.
5. 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

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permit. For your convenience, a copy of the certification is attached if it contains such conditions.

6. 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.

Special Conditions:

1. Commencement & Completion Notification: The Permittee shall provide to the Corps a written notification of the date of commencement of work authorized by this permit at least 15 days before initiation of any dredging operations authorized by this permit and a completion notification no less than 15 days after the completion of the dredging operation. The notification should be sent to the following email address if a hopper dredge will be used: sajdredgenotice@usace.army.mil. The notification should be sent to the following email address if a cutter-suction, clamshell or other mechanical dredge equipment is used: U.S. Army Corps of Engineers, Regulatory Division, **Enforcement Section**, P.O. Box 4970, Jacksonville, FL 32232-0019. Requests for documents, forms or information should also be submitted to the Corps at this email address or mailing address. The Permittee shall reference DA permit number, SAJ-1992-01854(SP-BAL), 'SARBO', and include the type of dredge in the subject line of the email and on all submittals.

2. Concurrency: The permittee acknowledges that authorization for transport of dredged material to the Fernandina Beach Ocean Dredge Material Disposal Site is not valid until concurrency is granted from the U.S. Environmental Protection Agency.

3. Georgia Coastal Management Program: The permittee shall comply with the conditions in the Federal Consistency Certification that is attached to this permit.

4. Florida Joint Coastal Permit (FJCP): The permittee shall ensure they obtain a copy of the latest FJCP and comply with the conditions specified in the permit.

5. Hopper Dredging Conditions:

a. Regional Biological Opinion: Dredging is approved under the current National Marine Fisheries Service (NMFS) South Atlantic Regional Biological Opinion (SARBO) and its references that includes the SARBO Management Protocols which can be viewed on the following web site: <http://el.erdc.usace.army.mil/seaturtles/refs-bo.cfm> or the Corps website:

[http://www.saj.usace.army.mil/About/DivisionsOffices/Planning/EnvironmentalBranch/EnvironmentalDocuments.aspx#District Wide](http://www.saj.usace.army.mil/About/DivisionsOffices/Planning/EnvironmentalBranch/EnvironmentalDocuments.aspx#District%20Wide)

The permittee is responsible for obtaining and complying with the SARBO. If the permittee is unable to view the SARBO at this website the permittee shall contact the Corps to receive a copy of the SARBO. The permittee shall implement all reasonable and prudent measures identified in the SARBO. NMFS has issued the SARBO to the Corps of Engineers for hopper dredge projects that limit the take of listed turtles, sturgeon, and any other species listed in the SARBO. Authorization under this DA permit is conditional upon compliance with all of the mandatory terms and conditions associated with the SARBO, which terms and conditions are incorporated by reference in this DA permit. Failure to comply with the terms and conditions associated with the SARBO, where a take of the listed species occurs, would constitute non-compliance with this DA permit. Failure to comply with this DA permit will be the basis for suspension and revocation of this DA permit and may be the basis for other enforcement action. NMFS has directed that this SARBO issued to the Corps serve as the formal consultation for all hopper dredge projects in the area covered by the SARBO however, where the terms and conditions of the SARBO differ from the Special Conditions of this DA permit, the Special Conditions of this DA permit will take precedence as the more stringent condition.

b. Deflector Device Submittal: No dredging shall be performed by a hopper dredge without the inclusion of an approved rigid sea turtle deflector device. The Permittee shall ensure that drawings of the proposed sea turtle deflector device and the Hopper Dredge Deflector Device Checklist are complete and all required documentation submitted to the Corps, at least 10 days prior to initiating the authorized work. The Permittee shall not commence hopper dredging until approval of the sea turtle deflector device has been granted by the Corps. A copy of the approved drawings, calculations and signed Hopper Dredge Deflector Device Checklist form shall be available on the vessel during dredging operations.

c. Commencement Notification: Within 3 days from the date of initiating the authorized work, the Permittee shall provide to the Corps, the completed Hopper Dredge Startup Inspection Checklist form (Attachment 3) with a written notification of the date of commencement of work authorized by this DA permit. An inspection of the hopper dredge will be scheduled and performed by the Corps after receipt of the notification of commencement.

d. Pre-Dredging Inspection Submittal: The Permittee shall submit the completed Hopper Dredge Pre-Dredge Inspection Checklist form to the Corps, at least 5 days prior to initiating the authorized work.

e. Dredging Quality Management: Dredging and dredged material disposal and monitoring of dredging projects using the Dredging Quality Management (DQM) system shall be implemented for this DA permit. The Permittee shall ensure that each hopper

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dredge assigned to the work authorized by this DA permit is equipped with DQM, previously known as 'Silent Inspector', for hopper dredge monitoring. The Permittee's DQM system must have been certified by the DQM Support Team within one calendar year prior to the initiation of the dredging/disposal. Questions regarding certification should be addressed to the DQM Support Center at 251-690-3011. Additional information about the DQM System can be found at <http://dqm.usace.army.mil>. The Permittee is responsible for insuring that the DQM system is operational throughout the dredging and disposal project and that project data are submitted to the DQM National Support Center in accordance with the specifications provided at the aforementioned website. The data collected by the DQM system shall, upon request, be made available to the Regulatory Division, Enforcement Section of the U.S. Army Corps of Engineers - Jacksonville District.

f. Incidental Take Statement: This DA permit does not authorize the Permittee to take an endangered species, in particular sea turtles, sturgeon, or any other endangered species listed in the SARBO. The SARBO includes an Incidental Take Statement (ITS) issued to the Corps.

(1) The Permittee understands and agrees that, even where it is in full compliance with the terms and conditions of the SARBO ITS and this DA permit, incidental take by the Permittee or other hopper dredging operations within the area covered by the SARBO may result in suspension or modification of this DA permit by the Corps. The amount of incidental take that will trigger suspension, and the need for any such suspension, shall be determined at the discretion of the Corps. The Permittee understands and agrees on behalf of itself, its agents, contractors, and other representatives, that no claim, legal action in equity or for damages, adjustment, or other entitlement against the Corps shall arise as a result of such suspension or related action.

(2) The Permittee shall immediately cease all hopper dredging operations and notify the Corps upon discovery of an incidental take of a sea turtle or sturgeon. The Permittee shall not resume hopper dredging until notified by the District Engineer, or his designee. The Sea Turtle Incidental Take Data form which is located at the following web site under the heading "Turtle Information" Observer Forms: <http://el.ercd.usace.army.mil/seaturtles> will be filled out by the Observer and shall be submitted to the Corps with photographic documentation within 24 hours of the take event.

g. Endangered Species Observers: During dredging operations, NMFS approved endangered species observers (Observer) shall be aboard each hopper dredge to monitor for the presence of endangered species including sea turtles, sturgeon, whales and manatees. Observers shall perform their observations 24hr/day and every day during dredging operation.

(1) During transit to and from the disposal area, the Observer shall monitor from the bridge during daylight hours for the presence of endangered species, especially the Northern right whale, during the period December through March.

(2) During dredging operations, while dragheads are submerged, the Observer shall continuously monitor the inflow and/or overflow screening for turtles and/or turtle parts and sturgeon and/or sturgeon parts.

(3) Upon completion of each load cycle, dragheads should be monitored as the draghead is lifted from the sea surface and is placed on the saddle in order to assure that sea turtles that may be impinged within the draghead are counted and recorded. The Observer shall physically inspect dragheads and inflow and overflow screening/boxes for threatened and endangered species take. The Observer shall identify, count and record sea turtle or sturgeon parts during the inspection of the inflow and overflow screening/boxes. All debris shall be removed from the screening/boxes after the inspection is complete so as not to impede the functioning of the screens during the next load cycle.

(4) The Observer shall maintain a log detailing all incidents, including sightings, collisions with, injuries to, or killing of endangered species during dredging operations. The data shall be recorded daily on the Observer forms which are located at the following web site under the heading "Turtle Information": <http://el.erdc.usace.army.mil/seaturtles>. If the permittee is unable to view the Observer forms at this website the permittee shall contact the Corps to receive a copy of the Observer forms. Completed observer forms shall be submitted to the Corps at the end of each day as identified in the reporting special condition. A Summary Report of the above incidents and sightings shall be submitted to the Corps within 15 days of project completion.

h. Observer Equipment: The Permittee shall provide a digital camera, with an image resolution capability of at least 300 dpi, in order to photographically report all incidental takes, without regard to species, during dredging operations. Immediately following the incidental take of any threatened or endangered species, images shall be submitted to the Corps in a .JPG or .TIF format and shall accompany incidental take forms. The nature of findings shall be fully described in the incidental take forms including references to photographs.

i. Sea Turtle Trawling: Sea turtle trawling shall be conducted following the take of two sea turtles, without regard to species, and continue until the end of dredging or as directed by the Corps. Trawling shall be conducted in accordance with the attached Sea Turtle Trawling requirements. Hopper dredging shall not resume until trawling has been initiated and until notified by the District Engineer, or his designee. The results of each trawl shall be recorded on the Sea Turtle Trawling Report which are located at the

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following web site under the heading "Turtle Information":

<http://el.erdc.usace.army.mil/seaturtles>. If you are unable to view the Trawling Report forms at this website you must contact the Corps to receive a copy of the forms. Interim trawling reports shall be submitted to the Corps by the end of each day. A final trawling report shall be prepared and submitted to the Corps after the completion of all trawling efforts. The final trawling report shall summarize the results of the trawling including total trawling times, number of trawls and number of captures. Any turtles captured during trawling shall be immediately released.

6. Sand Placement in Florida: The disposal of dredged material on the beach is approved under the current Statewide Programmatic Biological Opinion for sand placement activities in Florida (SPBO). The SPBO can be viewed on the following web sites: <http://www.saj.usace.army.mil/Missions/Regulatory/SourceBook.aspx> or http://www.saj.usace.army.mil/About/DivisionsOffices/Planning/EnvironmentalBranch/EnvironmentalDocuments.aspx#District_Wide. The permittee is responsible for obtaining and complying with the SPBO. If the permittee is unable to view the SPBO at this website the permittee shall contact the Corps to receive a copy of the SPBO. The permittee shall implement all reasonable and prudent measures identified in the SPBO. The U.S. Fish and Wildlife Service developed the SPBO with the Corps of Engineers for sand placement for species listed in the SPBO. Authorization under this DA permit is conditional upon compliance with all of the mandatory terms and conditions associated with the SPBO, which terms and conditions are incorporated by reference in this DA permit. Failure to comply with the terms and conditions associated with the SPBO, where a take of the listed species occurs, would constitute non-compliance with this DA permit. Failure to comply with this DA permit will be the basis for suspension and revocation of this DA permit and may be the basis for other enforcement action.

7. Piping Plover: The disposal of dredged material on the beach for the protection of the piping plover is approved under the current Programmatic Piping Plover Biological Opinion for sand placement activities in Florida (P3BO). The P3BO can be viewed on the following web site: <http://www.saj.usace.army.mil/Portals/44/docs/Planning/EnvironmentalBranch/EnvironmentalDocs/PipingPloverProgrammaticBiologicalOpinion.pdf>. The permittee is responsible for obtaining and complying with the P3BO. If the permittee is unable to view the P3BO at this website the permittee shall contact the Corps to receive a copy of the P3BO. The permittee shall implement all reasonable and prudent measures identified in the P3BO. The U.S. Fish and Wildlife Service developed the P3BO with the Corps of Engineers for sand placement for species listed in the P3BO. Authorization under this DA permit is conditional upon compliance with all of the mandatory terms and conditions associated with the P3BO, which terms and conditions are incorporated by reference in this DA permit. Failure to comply with the terms and conditions associated with the P3BO, where a take of the listed species occurs, would constitute non-compliance with this DA permit. Failure to comply with this DA permit will be the basis

for suspension and revocation of this DA permit and may be the basis for other enforcement action.

8. Manatee Conditions: The Permittee shall comply with the “Standard Manatee Conditions for In-Water Work - 2011” attached to the permit.

9. Clamshell or Other Mechanical Dredge Equipment Conditions:

a. Observers: The Permittee shall ensure that when in-water work is being performed or vessels are moving, at least one person will be designated as protected marine animal observer. Only individuals having previous, on-water experiences serving as dedicated, protected marine animal observers during daytime and nighttime dredging operations, including clamshell dredging, shall serve in this capacity for the proposed work. The Permittee shall retain a record that includes proof of the observer's qualifications, such as, the observer's name, previous observation experience (project title, location, date) and hours of dedicated observation per project, and make that record available upon request. Observers will be equipped with binoculars and polarized sunglasses to assist with observations during daylight operations, and advise personnel to cease operations upon sighting a manatee within 50 feet of any in-water construction. If the dedicated observers determine that detection of manatees during certain weather conditions (i.e. fog, rain, wind, etc.) is not possible, the Permittee will cease operation until weather conditions improve and detection is again possible.

b. Operations: For clamshell operations, the observer shall be stationed in a position to clearly observe the point of entry and exit of the clamshell bucket, as well as the waters surrounding that operation to a radius of 200 feet around the hoist line of the bucket. The dredge operator will gravity-release the clamshell bucket beginning at the water's surface, and only after confirmation that there are no manatees or marine turtles within the 50-foot safety distance identified in the standard conditions. In order to better observe manatees and marine turtles during nighttime clamshell operations, the Permittee shall install lighting, shielding and/or otherwise directed, which illuminates only the water surface within 200-foot radius of the clamshell bucket hoist line. Such lighting shall be installed to not represent a hazard to navigation, or violation of any other operational safety requirement.

c. Reporting: All observers shall maintain a daily log that details sightings, collisions, or injuries to protected marine animals, as well as specific information (such as work itinerary, weather, work shutdowns, observer shift changes, length of time of sightings, estimate distance of animal from the dredge/equipment/vessel, animal behavior during the sighting, and actions taken as a result of sightings, collisions or injuries). The logs and final summary report that includes the location and name of the project, and the dates and times of work shall be submitted within 30 days following project completion to the U.S. Fish and Wildlife Service at jaxregs@fws.gov.

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Further Information:

1. Congressional Authorities: You have been authorized to undertake the activity described above 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 and Sanctuaries Act of 1972 (33 U.S.C. 1413).

2. 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.

3. 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.

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4. 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.

5. 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:

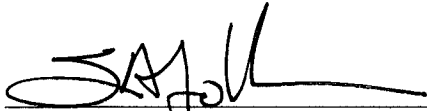
- a. You fail to comply with the terms and conditions of this permit.
- b. The information provided by you in support of your permit application proves to have been false, incomplete, or inaccurate (see 4 above).
- c. Significant new information surfaces which this office did not consider in reaching 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 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.

6. Extensions: General Condition 1 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.

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



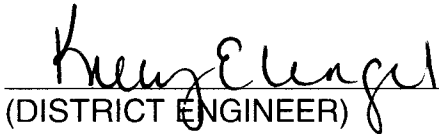
(PERMITTEE)
S. A. Follum
By Direction

12 JUNE 2014

(DATE)

(PERMITTEE NAME-PRINTED)

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



(DISTRICT ENGINEER)
Alan M. Dodd
Colonel, U.S. Army
Jacksonville District Commander

18 June 2014

(DATE)

for

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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-SIGNATURE) (DATE)

(NAME-PRINTED)

(ADDRESS)

(CITY, STATE, AND ZIP CODE)

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***Attachments to Department of the Army
Permit Number SAJ-1992-01854(SP-BAL)***

1. PERMIT DRAWINGS: 27 pages, dated June 2, 2014.
2. WATER QUALITY CERTIFICATION FOR FLORIDA: 9 pages, Specific Conditions of the water quality permit/certification in accordance with General Condition number 5 on page 3 of this DA permit.
3. GEORGIA COASTAL MANAGEMENT PROGRAM: 2 pages, Conditions of the Georgia Coastal Management Program in accordance with Special Condition number 3 on page 4 of this DA permit.
4. MANATEE CONDITIONS: 2 pages, *Standard Manatee Conditions for In-Water Work – 2011*
5. HOPPER DREDGING ATTACHMENTS: 4 Attachments (Sea Turtle Deflector Device Inspection Checklist, Hopper Dredge Pre-Dredge Inspection Checklist, Hopper Dredge Startup Inspection Checklist, and Sea Turtle Trawling Requirements)

GEORGIA

**AREA OF CHANNEL IN
STATE OF GEORGIA**
35,485,000 SF

**GEORGIA / FLORIDA
STATE LINE**

GEORGIA
STA 00+000 TO STA. 48+242
29,600,000 SF

GEORGIA
STA. 0+00 TO STA. 151+28
5,885,000 SF

STA. 0+00 AND
STA. 00+000

ST MARYS ENTRANCE

STA. 151+28

**AREA OF CHANNEL IN
STATE OF FLORIDA**
19,332,000 SF

FLORIDA
STA. 0+00 TO STA. 151+28
6,910,000 SF

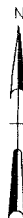
FLORIDA
STA. 2+272 TO STA. 00+000
780,000 SF

FEDERAL / STATE TERRITORIAL
3-MILE BOUNDARY LINE

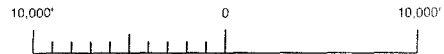
NOTE:

1. THE FLORIDA GEORGIA STATE LINE HAS NOT BEEN SURVEYED BY A LICENSED LAND SURVEYOR AND IS SHOWN FOR PLANNING PURPOSES ONLY.
2. AREAS ARE APPROXIMATE

ATLANTIC OCEAN



GRAPHIC SCALE



U.S. ARMY CORPS OF ENGINEERS
SAJ-1992-01854(SP-BAL)
US Navy - Kings Bay
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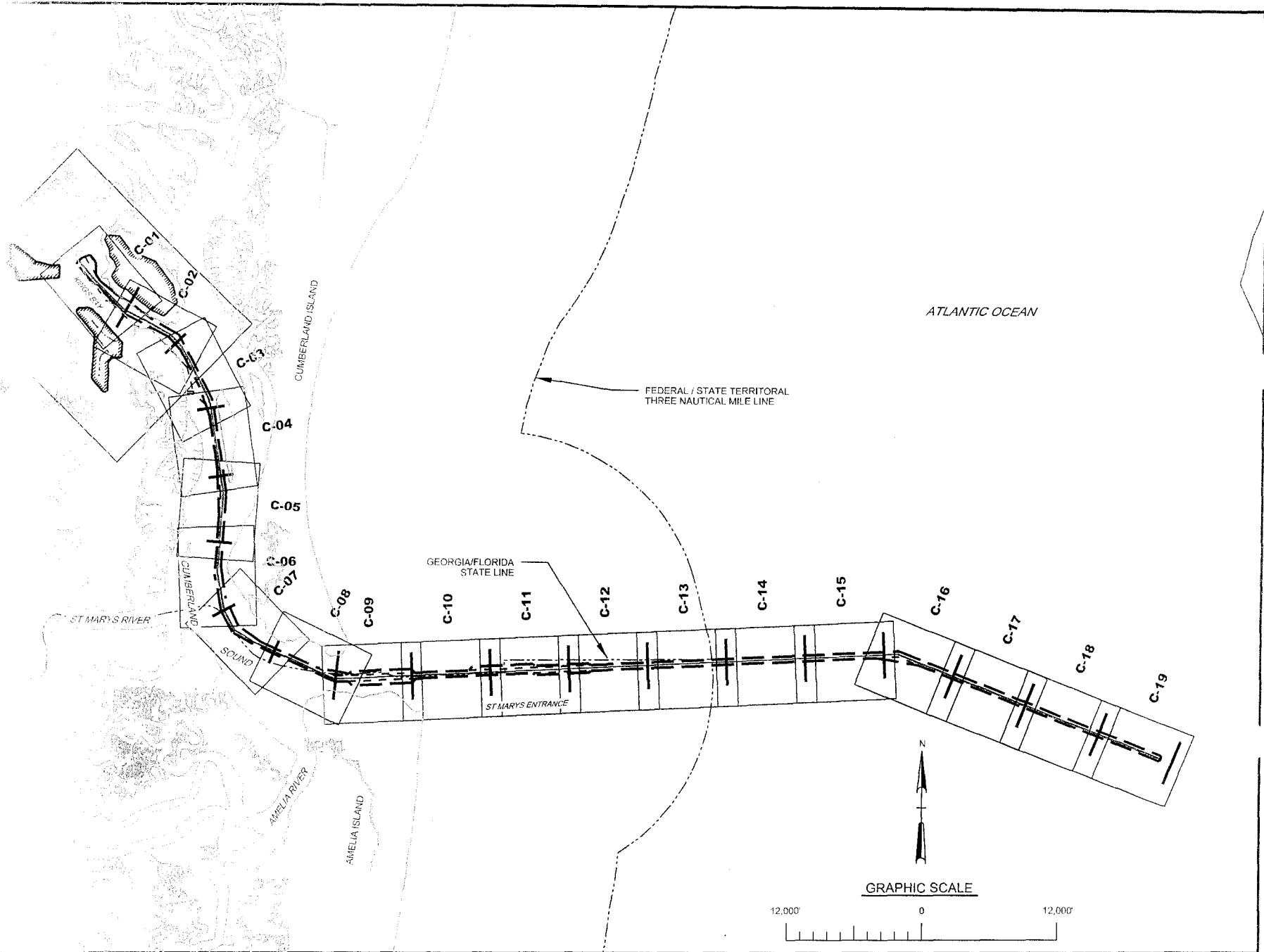
**NAVAL SUBMARINE BASE KINGS BAY
NASSAU COUNTY, FLORIDA AND CAMDEN COUNTY, GEORGIA
ENTRANCE AND INNER CHANNEL MAINTENANCE DREDGING PROJECTS
SECTION 10/404 PERMIT PLATES
AREA OF CHANNEL BY STATE BOUNDARIES**

PLATE

G-03

GEORGIA

FLORIDA

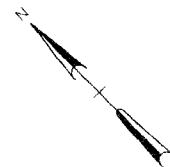
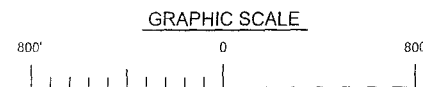
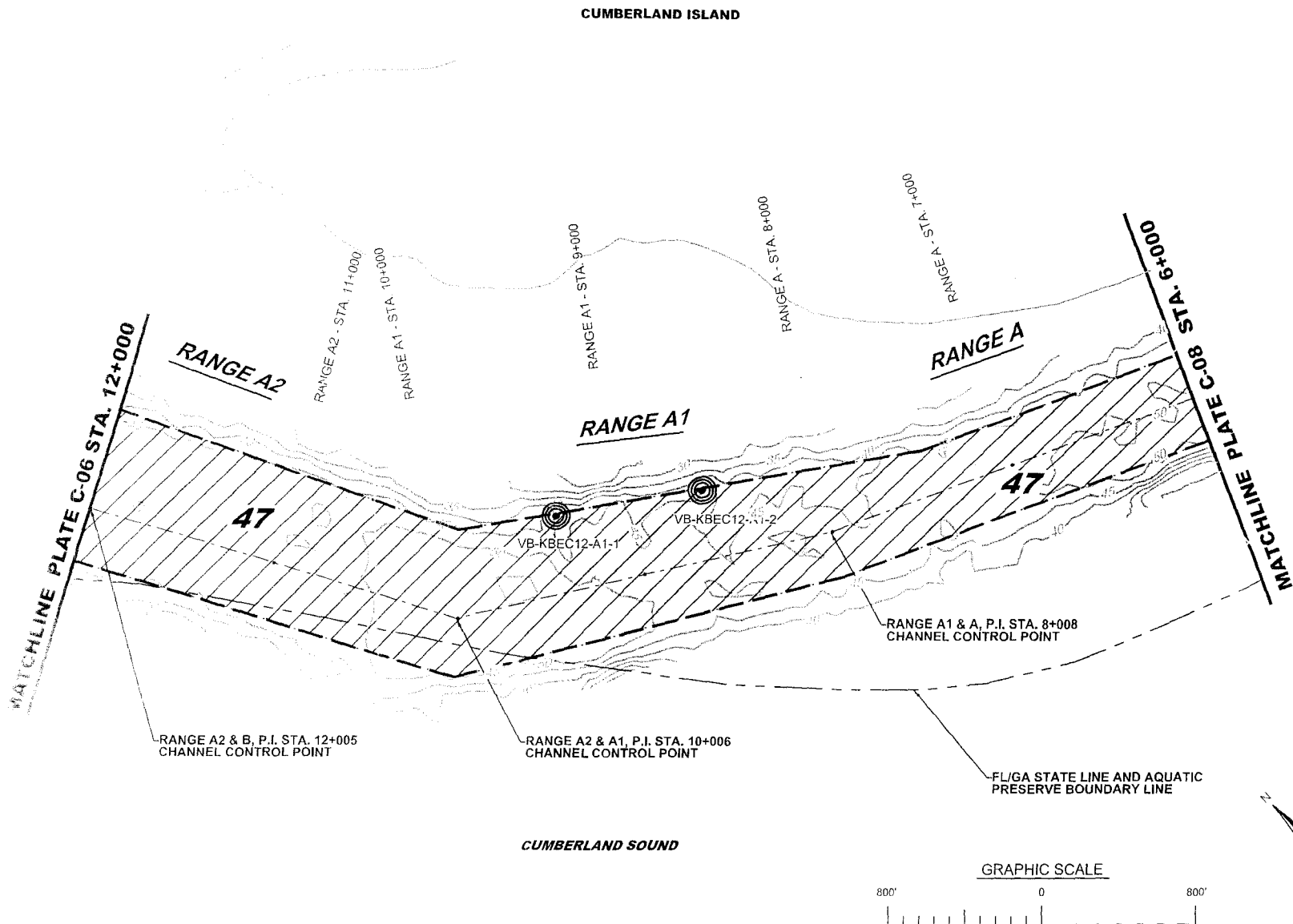


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NAVAL SUBMARINE BASE KINGS BAY
NASSAU COUNTY, FLORIDA AND CAMDEN COUNTY, GEORGIA
ENTRANCE AND INNER CHANNEL MAINTENANCE DREDGING PROJECTS
SECTION 10/404 PERMIT PLATES
KEY MAP - DREDGING & UPLAND DISPOSAL AREAS

PLATE

G-06



DEPARTMENT OF ARMY PERMIT PLATE
 NOT FOR CONSTRUCTION

DEPARTMENT OF THE ARMY
 JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
 JACKSONVILLE, FLORIDA

Dsn by:
 JWL
 Dwn by:
 DBV / MR2
 Ckd by:
 AET
 Dated:
 FEBRUARY 2013

NAVAL SUBMARINE BASE KINGS BAY
 NASSAU COUNTY, FLORIDA AND CAMDEN COUNTY, GEORGIA
 ENTRANCE AND INNER CHANNEL MAINTENANCE DREDGING PROJECTS
 SECTION 10/404 PERMIT PLATES
 DREDGING PLAN

PLATE

C-07

MATCHLINE PLATE C-07 STA. 0+000

RANGE A - STA. 5+000

RANGE A - STA. 4+000

RANGE A - STA. 3+000

RANGE A - STA. 2+000

RANGE A - STA. 1+000

RANGE A

47

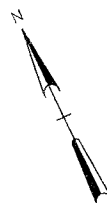
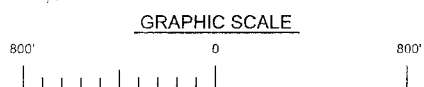
VB-KBEC12-A-1

VB-KBEC12-A-2

RANGE A, P.I. STA. 0+000
CHANNEL CONTROL POINT

FL/GA STATE LINE AND AQUATIC
PRESERVE BOUNDARY LINE

MATCHLINE PLATE C-09 STA. 0+000 AHB STA. 00+00

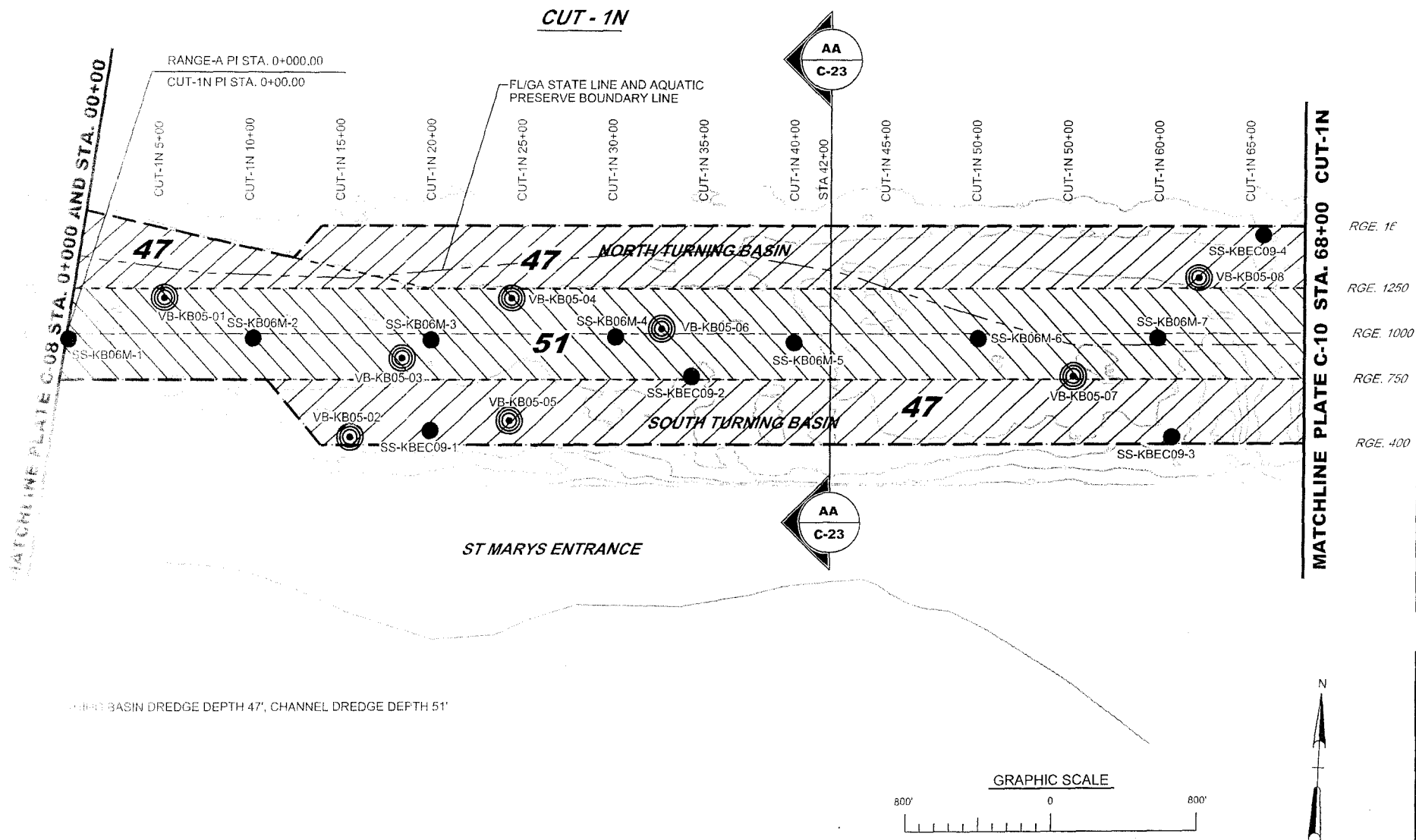


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US Navy - Kings Bay
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**NAVAL SUBMARINE BASE KINGS BAY
NASSAU COUNTY, FLORIDA AND CAMDEN COUNTY, GEORGIA
ENTRANCE AND INNER CHANNEL MAINTENANCE DREDGING PROJECTS
SECTION 10/404 PERMIT PLATES
DREDGING PLAN**

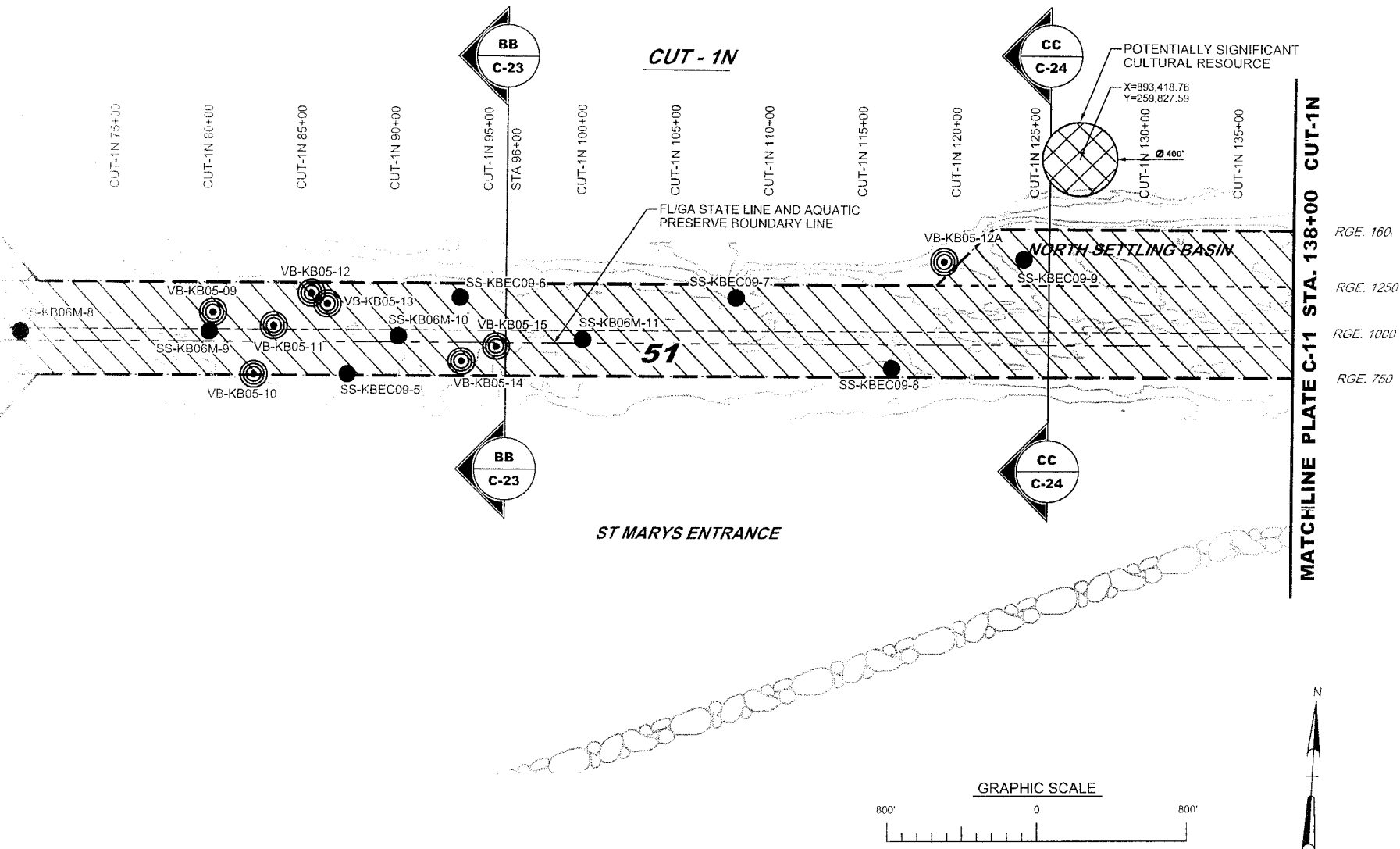
PLATE

C-08



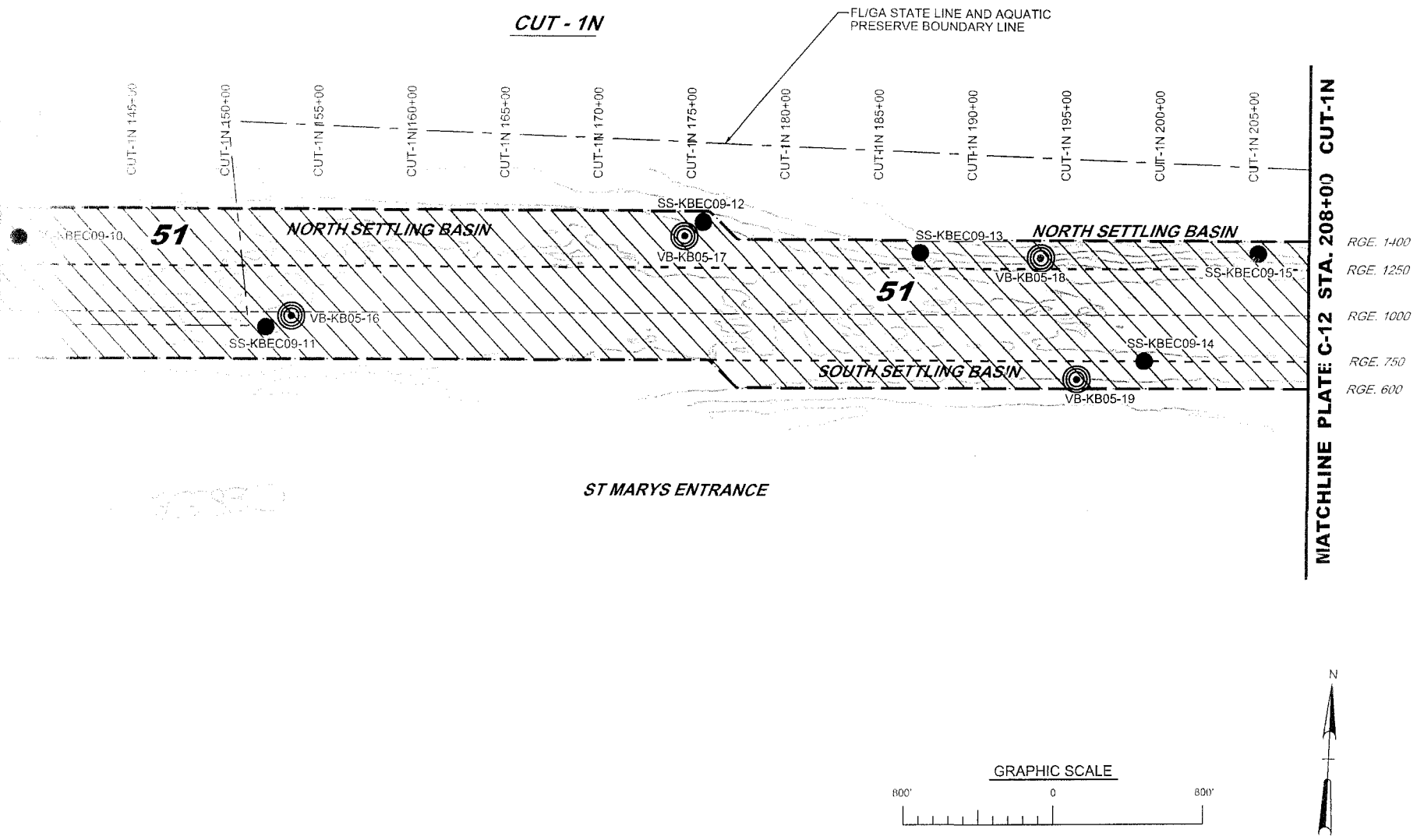
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MATCHLINE PLATE C-09 STA. 68+00 CUT-1N



<div> <div>DESIGNED BY: JWL</div> <div>DRAWN BY: DBV / MR2</div> <div>CHECKED BY: AET</div> <div>DATE: FEBRUARY 2013</div> </div>	<div> <div>NAVAL SUBMARINE BASE KINGS BAY</div> <div>NASSAU COUNTY, FLORIDA AND CAMDEN COUNTY, GEORGIA</div> <div>ENTRANCE AND INNER CHANNEL MAINTENANCE DREDGING PROJECTS</div> <div>SECTION 10/404 PERMIT PLATES</div> <div>DREDGING PLAN</div> </div>	<div> <div>PLATE</div> <div>C-10</div> </div>
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 SAJ-1992-01854(SP-BAL)
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DEPARTMENT OF ARMY PERMIT PLATE NOT FOR CONSTRUCTION DEPARTMENT OF THE ARMY JACKSONVILLE DISTRICT, CORPS OF ENGINEERS JACKSONVILLE, FLORIDA	Dsn by: JWJ Dwn by: DBV / MR2 Ckd by: AET Dated: FEBRUARY 2013	NAVAL SUBMARINE BASE KINGS BAY NASSAU COUNTY, FLORIDA AND CAMDEN COUNTY, GEORGIA ENTRANCE AND INNER CHANNEL MAINTENANCE DREDGING PROJECTS SECTION 10/404 PERMIT PLATES DREDGING PLAN	PLATE C-11
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CUT - 1N

FL/GA STATE LINE

CUT-1N 215+00

CUT-1N 220+00

CUT-1N 225+00

CUT-1N 230+00

CUT-1N 235+00

CUT-1N 240+00

CUT-1N 245+00

CUT-1N 250+00

CUT-1N 255+00

CUT-1N 260+00

CUT-1N 265+00

CUT-1N 270+00

CUT-1N 275+00

NORTH SETTLING BASIN

SOUTH SETTLING BASIN

SS-KBEC09-18

SS-KBEC09-21

VB-KB05-20

VB-KB05-22

VB-KB05-23

SS-KBEC09-23

SS-KBEC09-25

SS-KBEC09-26

SS-KBEC09-28

SS-KBEC09-29

SS-KBEC09-17

VB-KB05-21

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SS-KBEC09-27

SS-KBEC09-19

SS-KBEC09-22

51

ST MARYS ENTRANCE

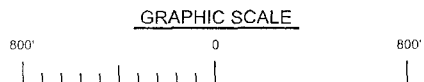
AQUATIC PRESERVE BOUNDARY LINE

MATCHLINE PLATE C-13 STA. 278+00 CUT-1N

RGE. 1250

RGE. 1000

RGE. 750



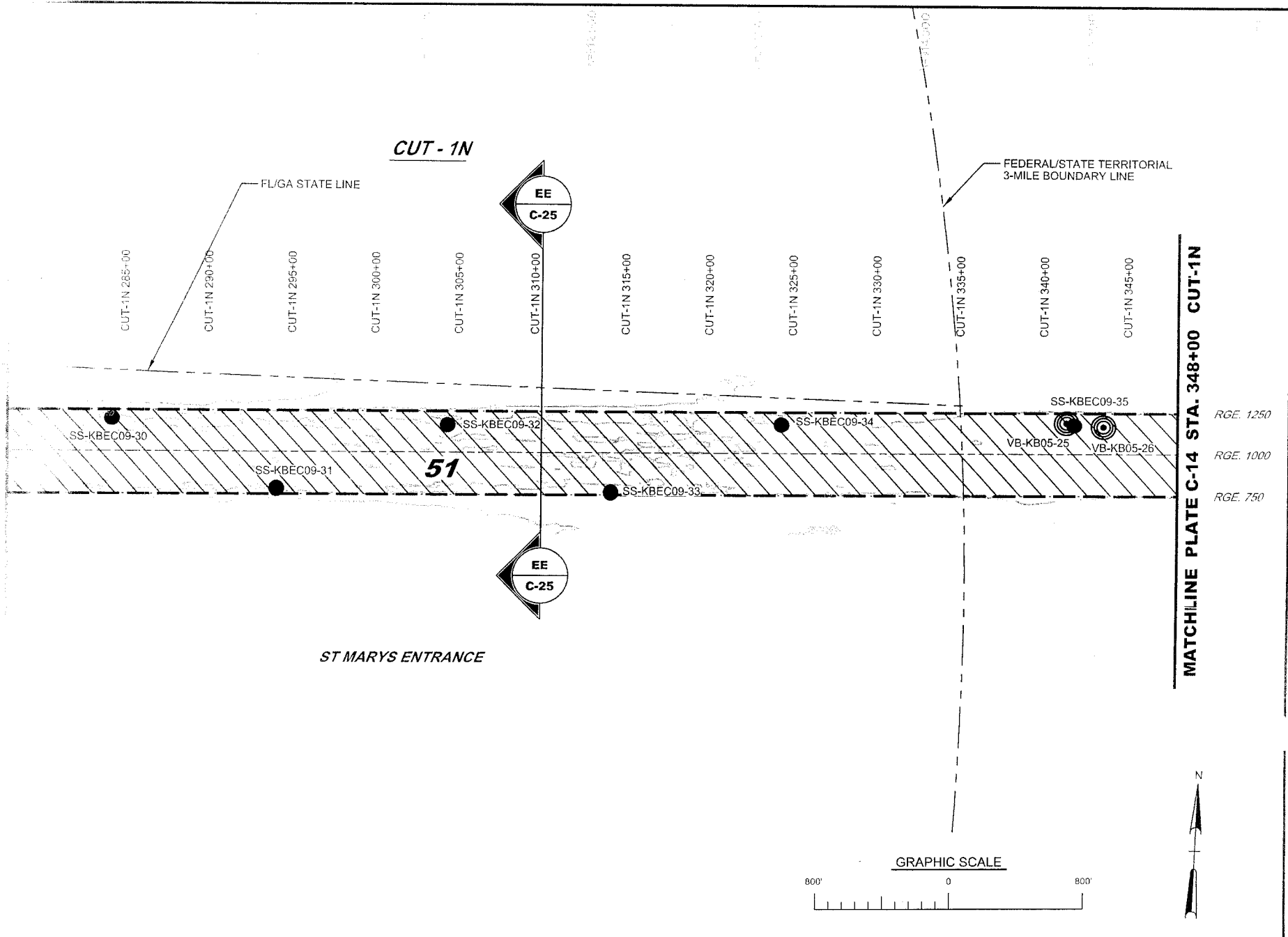
DEPARTMENT OF ARMY PERMIT PLATE
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DEPARTMENT OF THE ARMY
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JACKSONVILLE, FLORIDA

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JWL
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Ckd by:
AET
Dated:
FEBRUARY 2013

NAVAL SUBMARINE BASE KINGS BAY
NASSAU COUNTY, FLORIDA AND CAMDEN COUNTY, GEORGIA
ENTRANCE AND INNER CHANNEL MAINTENANCE DREDGING PROJECTS
SECTION 10/404 PERMIT PLATES
DREDGING PLAN

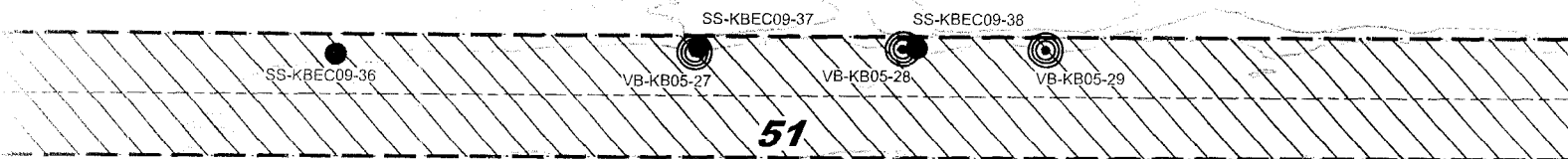
PLATE
C-12



DEPARTMENT OF ARMY PERMIT PLATE NOT FOR CONSTRUCTION DEPARTMENT OF THE ARMY JACKSONVILLE DISTRICT, CORPS OF ENGINEERS JACKSONVILLE, FLORIDA	Dsn by: JWL Dwn by: DBV / MR2 Ckd by: AET Dated: FEBRUARY 2013	NAVAL SUBMARINE BASE KINGS BAY NASSAU COUNTY, FLORIDA AND CAMDEN COUNTY, GEORGIA ENTRANCE AND INNER CHANNEL MAINTENANCE DREDGING PROJECTS SECTION 10/404 PERMIT PLATES DREDGING PLAN	PLATE C-13
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CUT - 1N

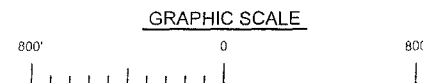
CUT-1N 355+00
CUT-1N 360+00
CUT-1N 365+00
CUT-1N 370+00
CUT-1N 375+00
CUT-1N 380+00
CUT-1N 385+00
CUT-1N 390+00
CUT-1N 395+00
CUT-1N 400+00
CUT-1N 405+00
CUT-1N 410+00
CUT-1N 415+00



MATCHLINE PLATE C-15 STA. 418+00 CUT-1N

RGE. 1250
RGE. 1000
RGE. 750

ATLANTIC OCEAN



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Dated:
FEBRUARY 2013

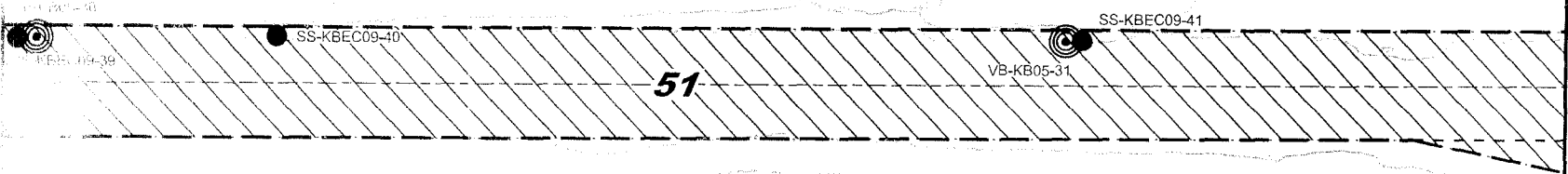
NAVAL SUBMARINE BASE KINGS BAY
NASSAU COUNTY, FLORIDA AND CAMDEN COUNTY, GEORGIA
ENTRANCE AND INNER CHANNEL MAINTENANCE DREDGING PROJECTS
SECTION 10/404 PERMIT PLATES
DREDGING PLAN

PLATE

C-14

CUT - 1N

CUT-1N 425+00
CUT-1N 430+00
CUT-1N 435+00
CUT-1N 440+00
CUT-1N 445+00
CUT-1N 450+00
CUT-1N 455+00
CUT-1N 460+00
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CUT-1N 480+00
CUT-1N 485+00

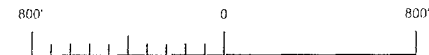


ATLANTIC OCEAN

MATCHLINE PLATE C-16 STA. 488+00 CUT-1N

RGE. 1250
RGE. 1000
RGE. 750

GRAPHIC SCALE



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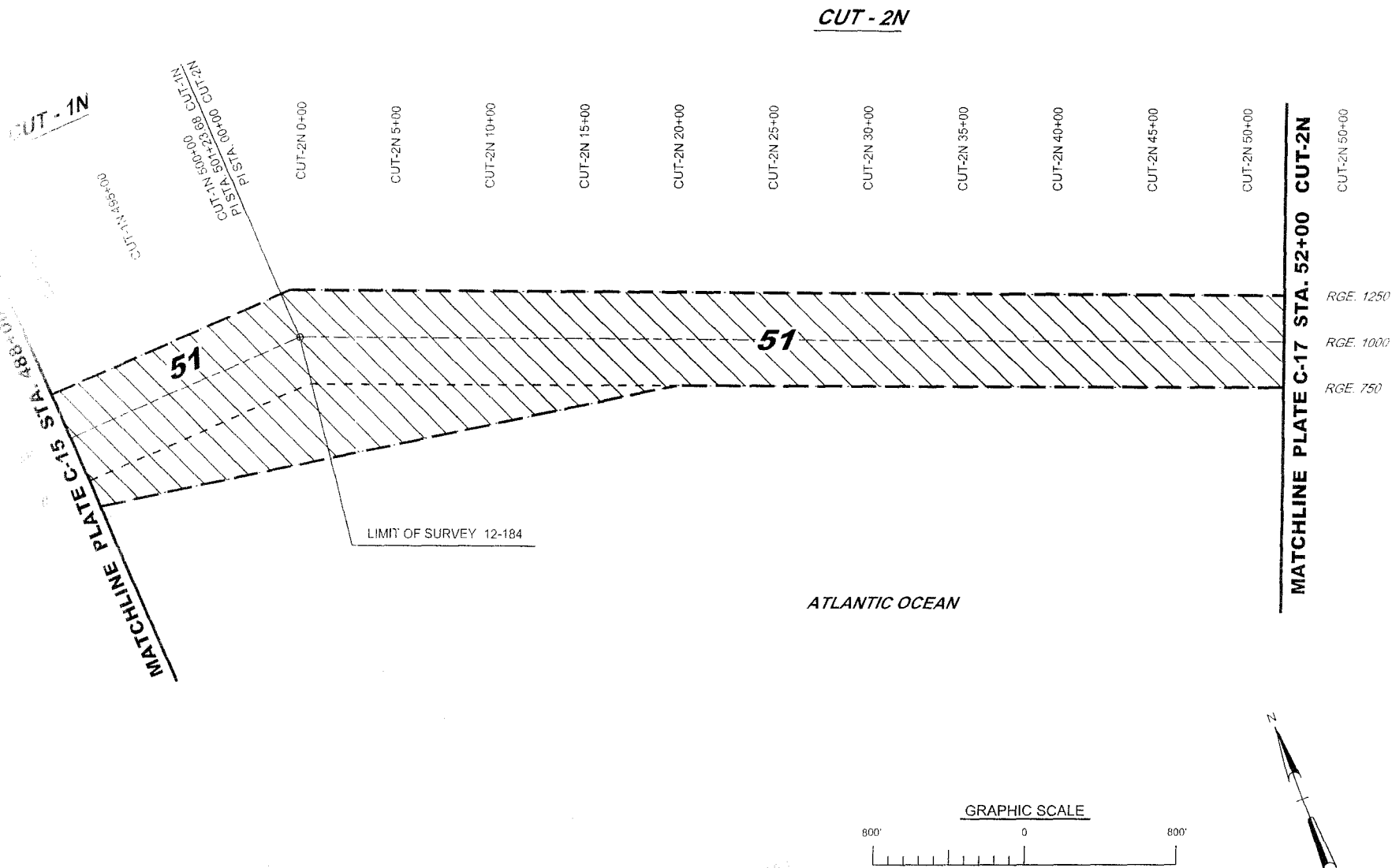
DEPARTMENT OF THE ARMY
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Ckd by:
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NAVAL SUBMARINE BASE KINGS BAY
NASSAU COUNTY, FLORIDA AND CAMDEN COUNTY, GEORGIA
ENTRANCE AND INNER CHANNEL MAINTENANCE DREDGING PROJECTS
SECTION 10/404 PERMIT PLATES
DREDGING PLAN

PLATE

C-15



DEPARTMENT OF ARMY PERMIT PLATE
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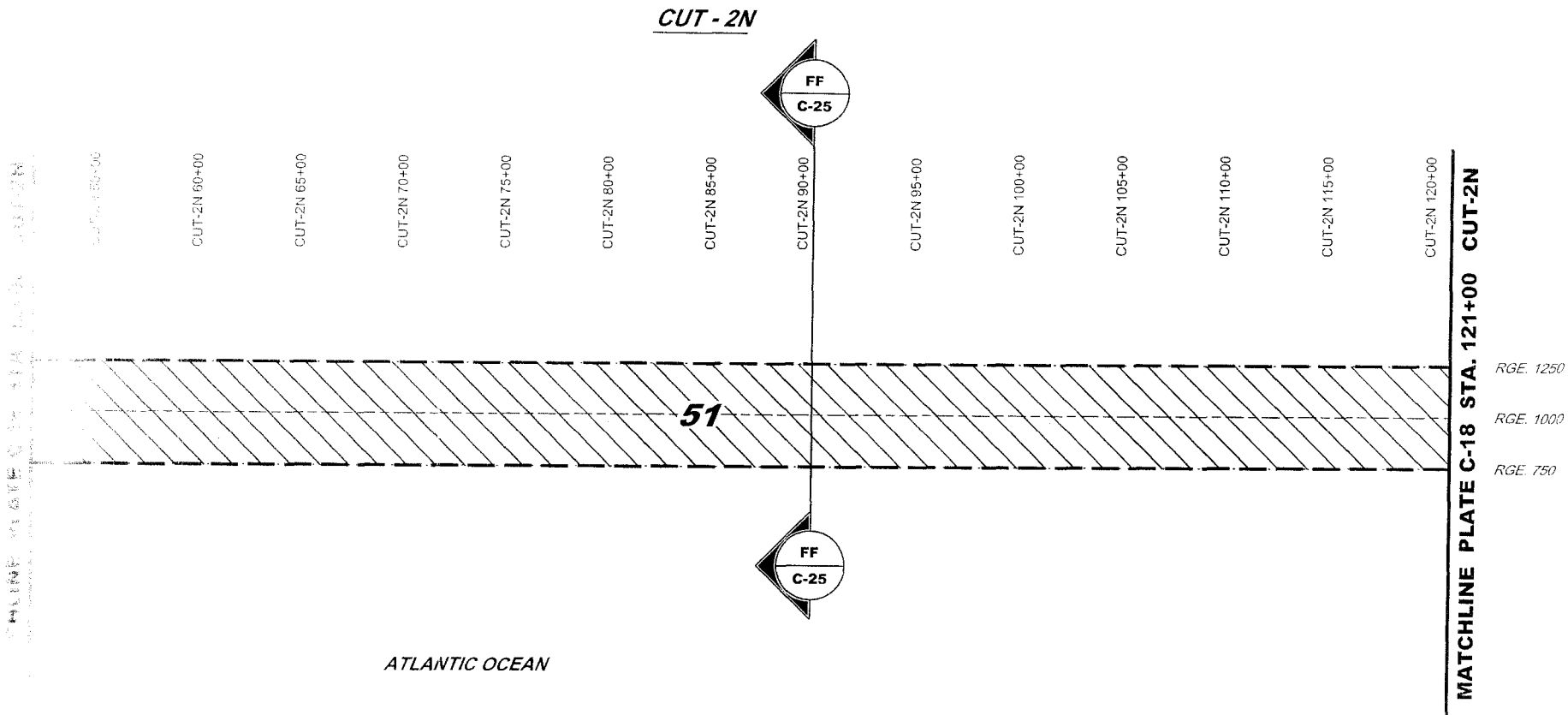
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 ENTRANCE AND INNER CHANNEL MAINTENANCE DREDGING PROJECTS
 SECTION 10/404 PERMIT PLATES
 DREDGING PLAN

PLATE

C-16

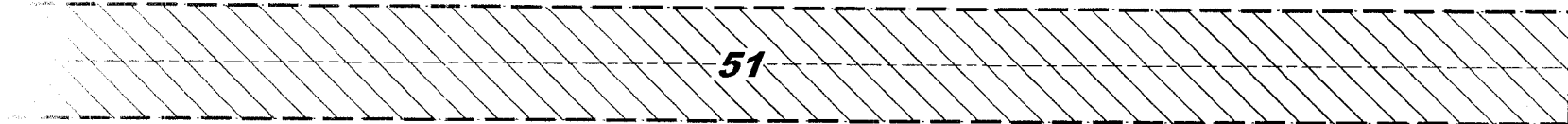


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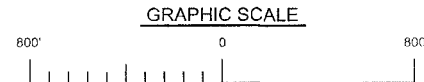
<p>DEPARTMENT OF ARMY PERMIT PLATE NOT FOR CONSTRUCTION</p> <p>DEPARTMENT OF THE ARMY JACKSONVILLE DISTRICT, CORPS OF ENGINEERS JACKSONVILLE, FLORIDA</p>	<p>Dsn by: JWL</p> <p>Dwn by: DBV / MR2</p> <p>Ckd by: AET</p> <p>Dated: FEBRUARY 2013</p>	<p>NAVAL SUBMARINE BASE KINGS BAY NASSAU COUNTY, FLORIDA AND CAMDEN COUNTY, GEORGIA ENTRANCE AND INNER CHANNEL MAINTENANCE DREDGING PROJECTS SECTION 10/404 PERMIT PLATES DREDGING PLAN</p>	<p>PLATE</p> <p>C-17</p>
--	--	--	---------------------------------

CUT - 2N

CUT-2N 125+00
CUT-2N 130+00
CUT-2N 135+00
CUT-2N 140+00
CUT-2N 145+00
CUT-2N 150+00
CUT-2N 155+00
CUT-2N 160+00
CUT-2N 165+00
CUT-2N 170+00
CUT-2N 175+00
CUT-2N 180+00
CUT-2N 185+00
CUT-2N 190+00



ATLANTIC OCEAN



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NAVAL SUBMARINE BASE KINGS BAY
NASSAU COUNTY, FLORIDA AND CAMDEN COUNTY, GEORGIA
ENTRANCE AND INNER CHANNEL MAINTENANCE DREDGING PROJECTS
SECTION 10/404 PERMIT PLATES
DREDGING PLAN

PLATE

C-18

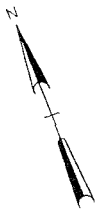
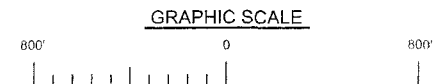
U S ARMY CORPS OF ENGINEERS
SAU-1992-01854(SP-BAL)
US Navy - Kings Bay
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CUT - 2N

CUT-2N 195+00
CUT-2N 200+00
CUT-2N 205+00
CUT-2N 210+00
CUT-2N 215+00
CUT-2N 220+00
CUT-2N 225+00
CUT-2N 230+00
CUT-2N 235+00
CUT-2N 240+00
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PI STA. 250+00 CUT-2N



ATLANTIC OCEAN



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NOT FOR CONSTRUCTION

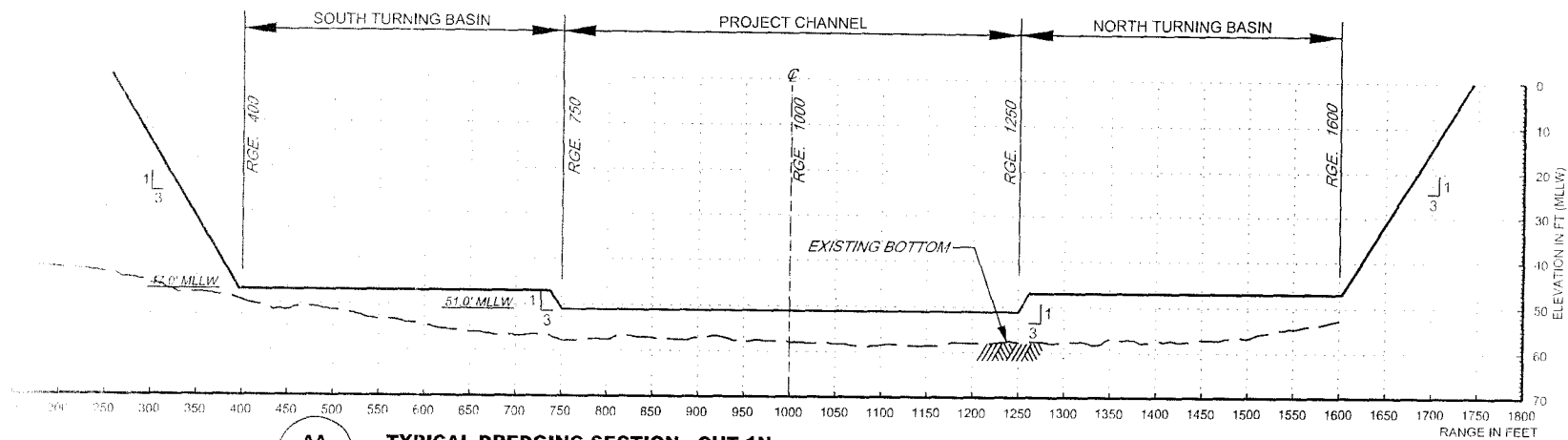
DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

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Ckd by: AET
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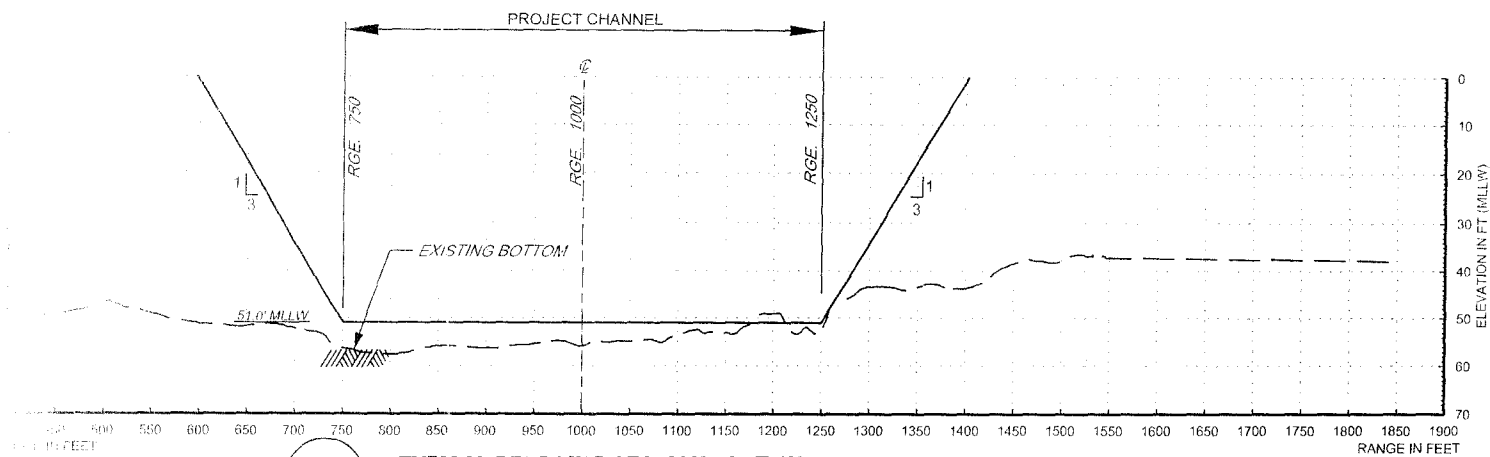
**NAVAL SUBMARINE BASE KINGS BAY
NASSAU COUNTY, FLORIDA AND CAMDEN COUNTY, GEORGIA
ENTRANCE AND INNER CHANNEL MAINTENANCE DREDGING PROJECTS
SECTION 10/404 PERMIT PLATES
DREDGING PLAN**

PLATE

C-19

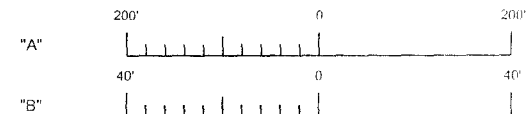


AA
C-09
TYPICAL DREDGING SECTION CUT-1N
HORZ = SCALE: A
VERT = SCALE: B



BB
C-10
TYPICAL DREDGING SECTION CUT-1N
HORZ = SCALE: A
VERT = SCALE: B

GRAPHIC SCALES



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NOT FOR CONSTRUCTION

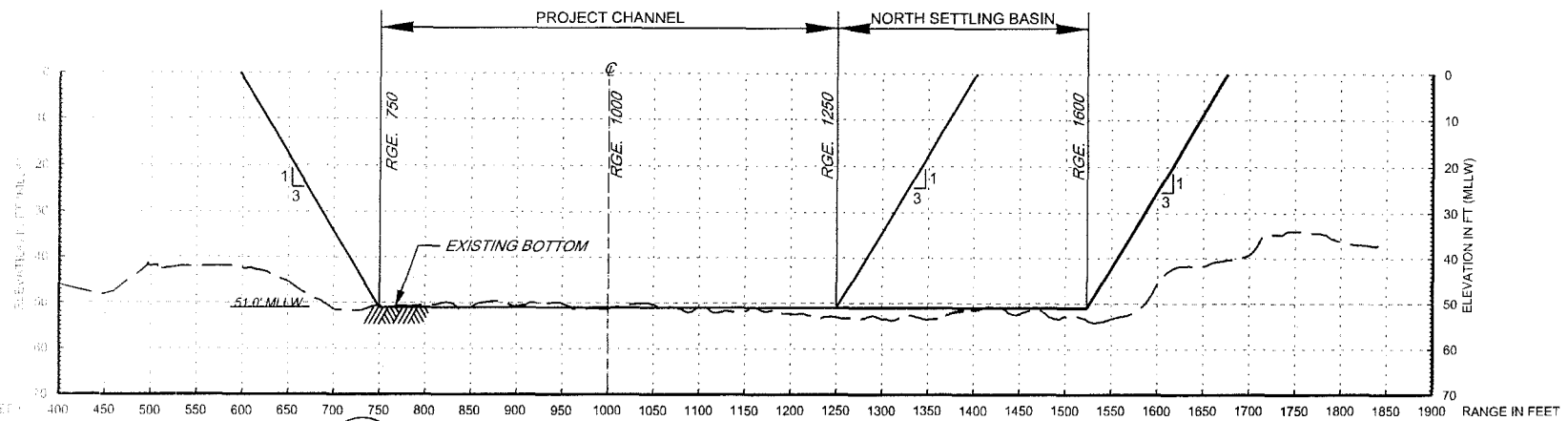
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JWL
Dwn by:
DBV / MR2
Ckd by:
AET
Dated:
FEBRUARY 2013

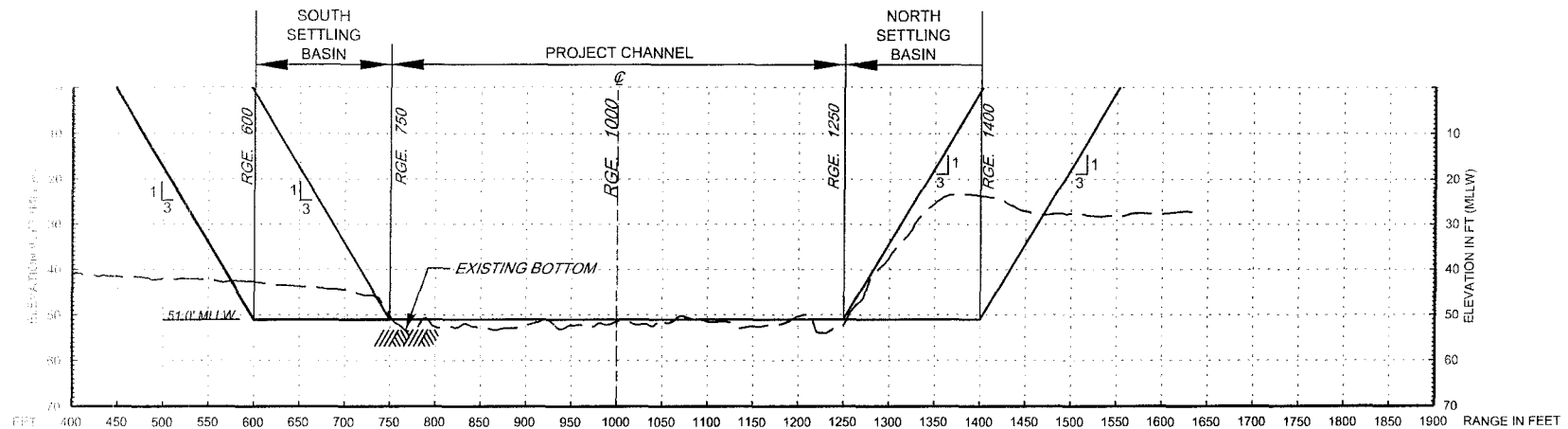
NAVAL SUBMARINE BASE KINGS BAY
NASSAU COUNTY, FLORIDA AND CAMDEN COUNTY, GEORGIA
ENTRANCE AND INNER CHANNEL MAINTENANCE DREDGING PROJECTS
SECTION 10/404 PERMIT PLATES
DREDGING SECTIONS

PLATE

C-23

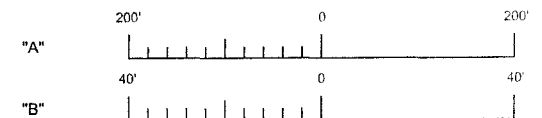


CC
C-10 **TYPICAL DREDGING SECTION CUT-1N**
HORZ = SCALE: A
VERT = SCALE: B



DD
C-12 **TYPICAL DREDGING SECTION CUT-1N**
HORZ = SCALE: A
VERT = SCALE: B

GRAPHIC SCALES



DEPARTMENT OF ARMY PERMIT PLATE
NOT FOR CONSTRUCTION

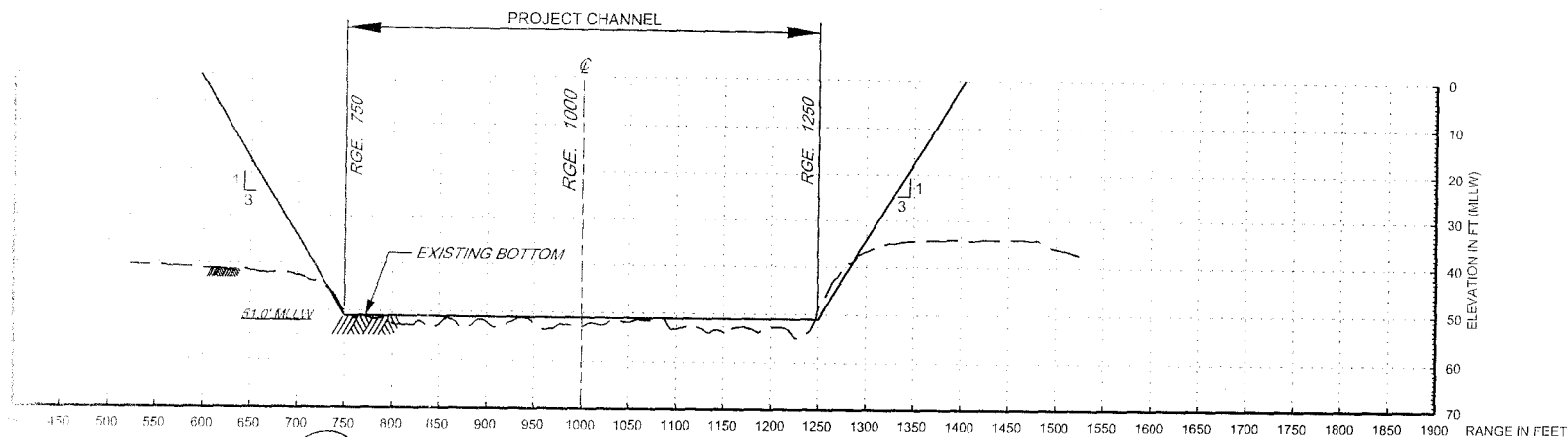
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Ckd by:
AET
Dated:
FEBRUARY 2013

NAVAL SUBMARINE BASE KINGS BAY
NASSAU COUNTY, FLORIDA AND CAMDEN COUNTY, GEORGIA
ENTRANCE AND INNER CHANNEL MAINTENANCE DREDGING PROJECTS
SECTION 10/404 PERMIT PLATES
DREDGING SECTIONS

PLATE

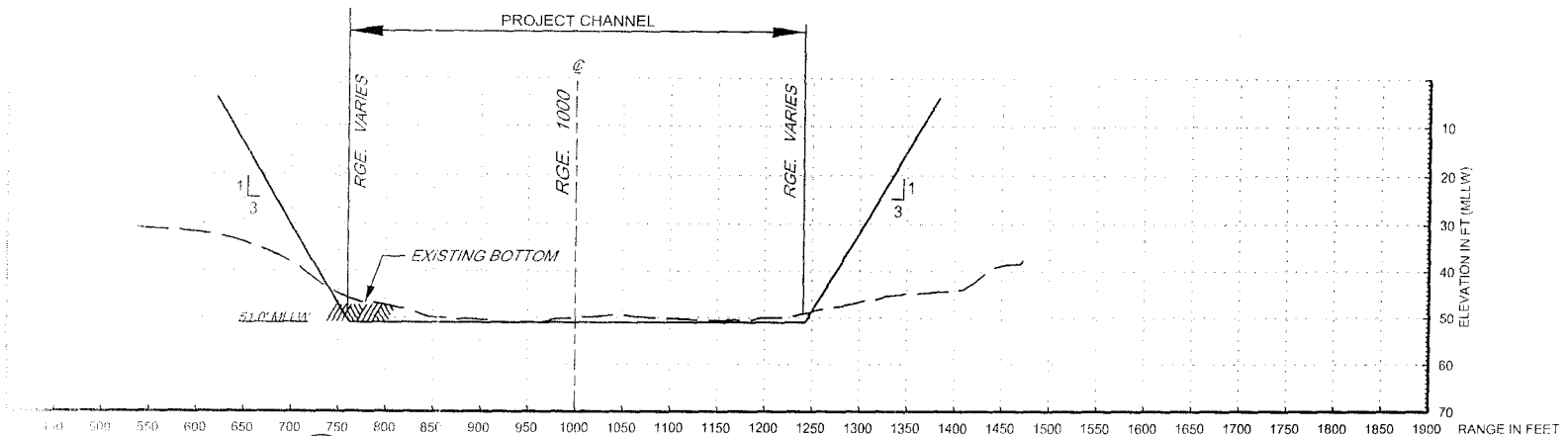
C-24



EE
C-13

TYPICAL DREDGING SECTION CUT-1N

HORZ = SCALE: A
VERT = SCALE: B

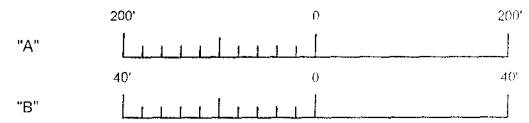


FF
C-17

TYPICAL DREDGING SECTION CUT-2N

HORZ = SCALE: A
VERT = SCALE: B

GRAPHIC SCALES



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SAJ-1992-01854(SP-BAL)
US Navy - Kings Bay
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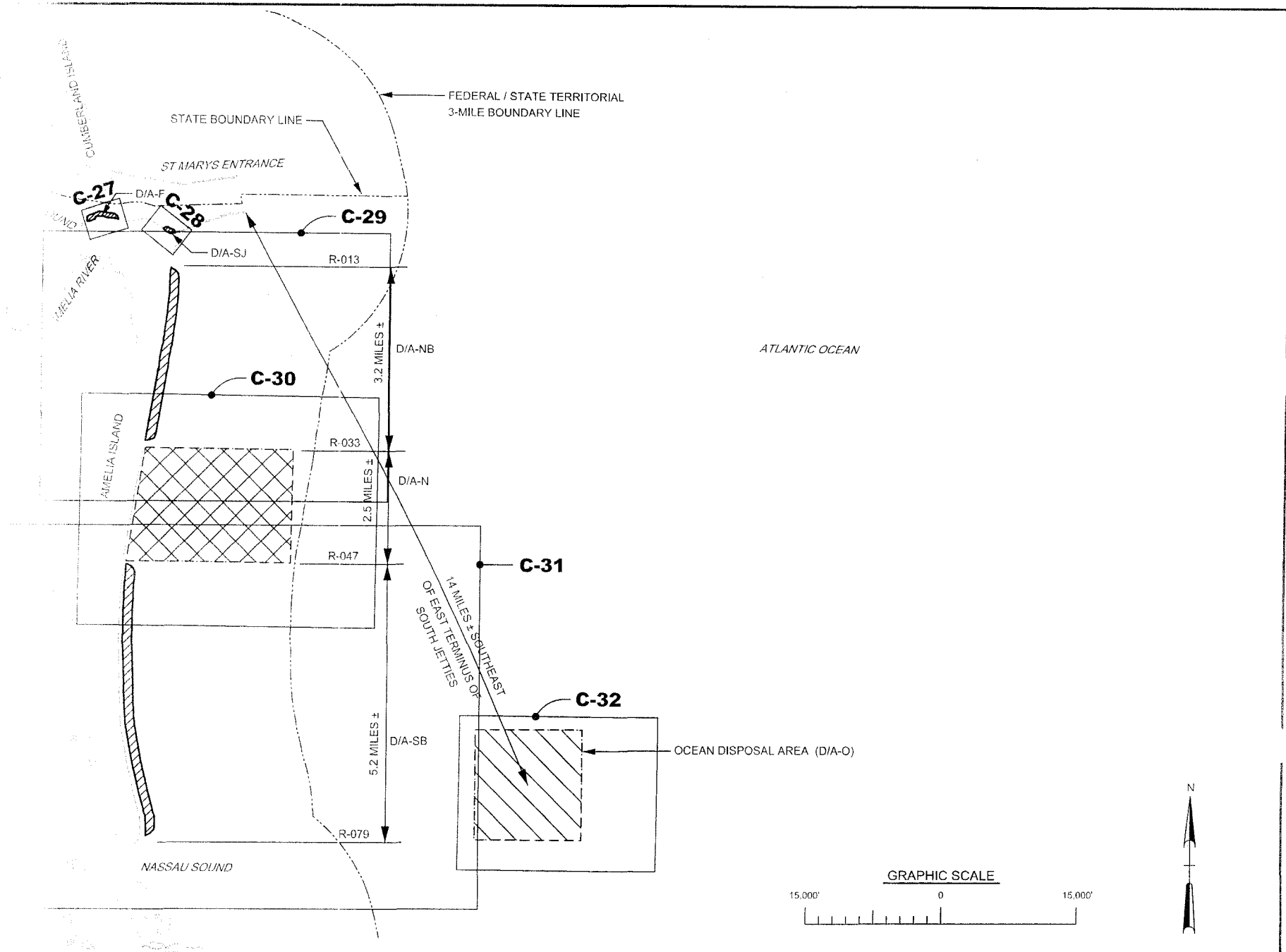
DEPARTMENT OF THE ARMY
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Dated: FEBRUARY 2013

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NASSAU COUNTY, FLORIDA AND CAMDEN COUNTY, GEORGIA
ENTRANCE AND INNER CHANNEL MAINTENANCE DREDGING PROJECTS
SECTION 10/404 PERMIT PLATES
DREDGING SECTIONS**

PLATE

C-25



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DEPARTMENT OF THE ARMY
 JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
 JACKSONVILLE, FLORIDA

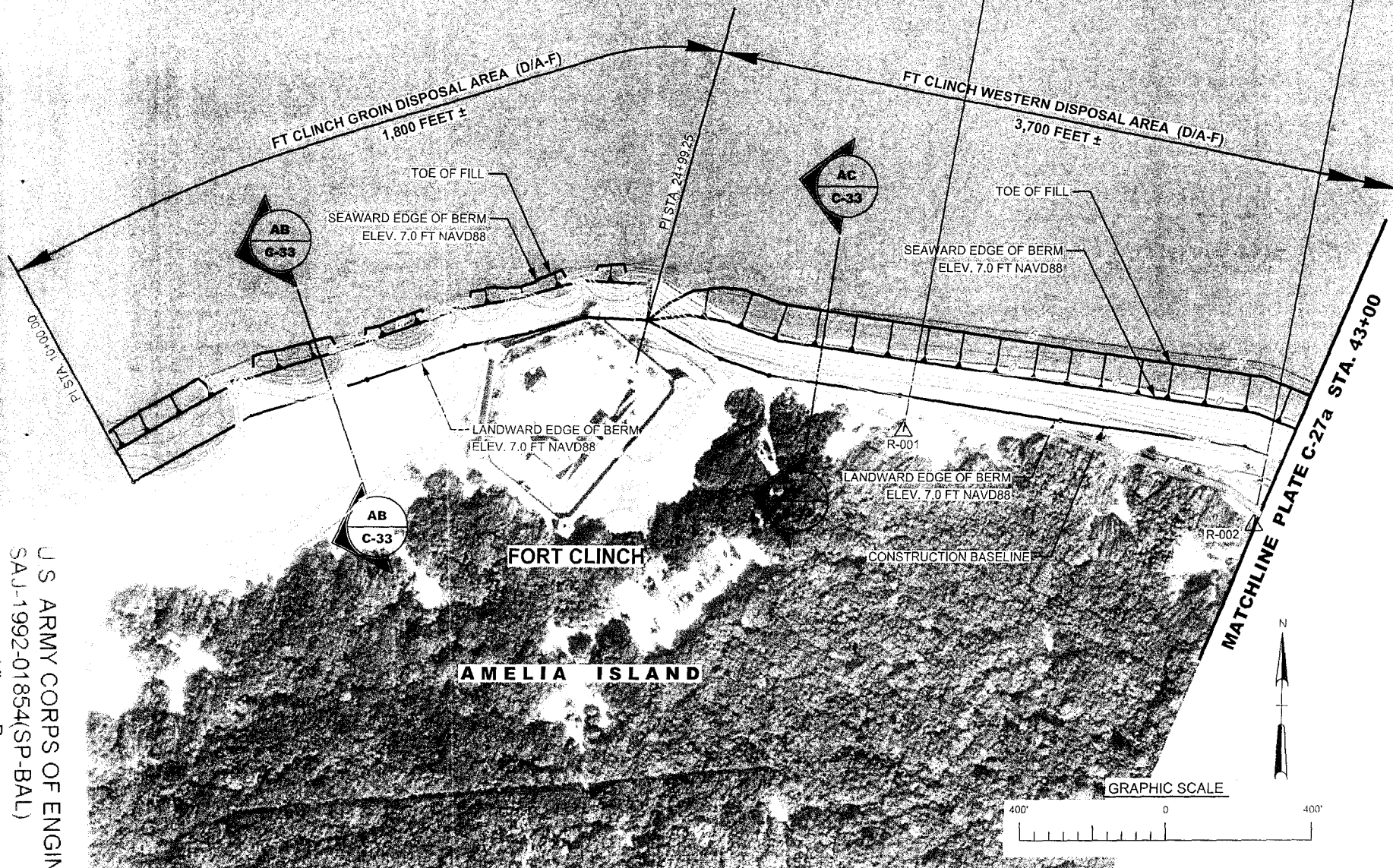
Desn by:
 JWL
 Dwn by:
 DBV / MR2
 Ckd by:
 AET
 Dated:
 FEBRUARY 2013

NAVAL SUBMARINE BASE KINGS BAY
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 ENTRANCE AND INNER CHANNEL MAINTENANCE DREDGING PROJECTS
 SECTION 10/404 PERMIT PLATES
 KEY MAP - DISPOSAL AREAS

PLATE

G-07

ST MARYS ENTRANCE



FORT CLINCH

AMELIA ISLAND

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NOT FOR CONSTRUCTION

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

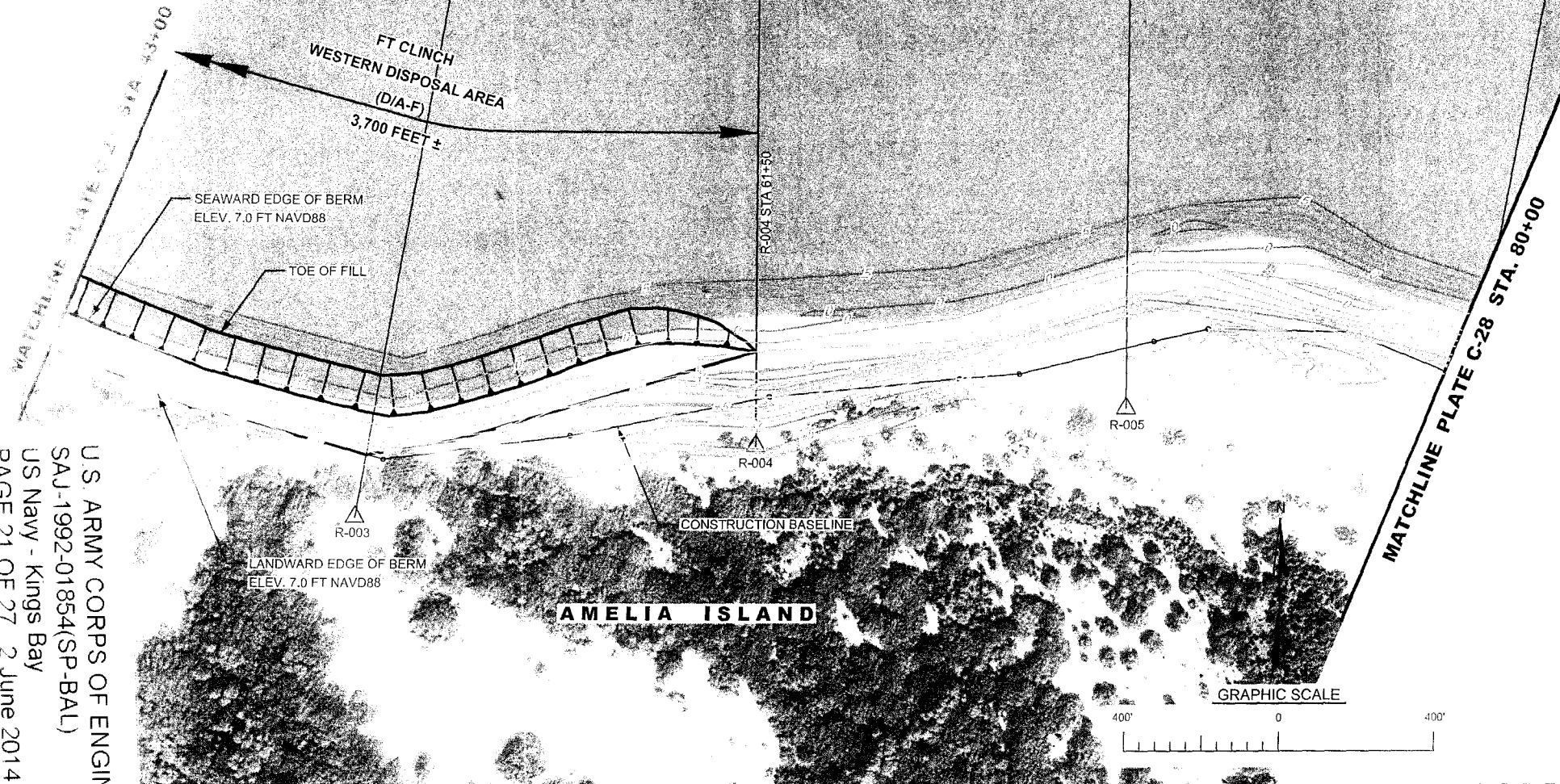
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JWL
Dwn by:
DBV / MR2
Ckd by:
AET
Dated:
FEBRUARY 2013

NAVAL SUBMARINE BASE KINGS BAY
NASSAU COUNTY, FLORIDA AND CAMDEN COUNTY, GEORGIA
ENTRANCE AND INNER CHANNEL MAINTENANCE DREDGING PROJECTS
SECTION 10/404 PERMIT PLATES
FT CLINCH DISPOSAL AREA (D/A-F)

PLATE

C-27

ST MARYS ENTRANCE



U.S. ARMY CORPS OF ENGINEERS
SAJ-1992-01854(SP-BAL)
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DEPARTMENT OF ARMY PERMIT PLATE
NOT FOR CONSTRUCTION

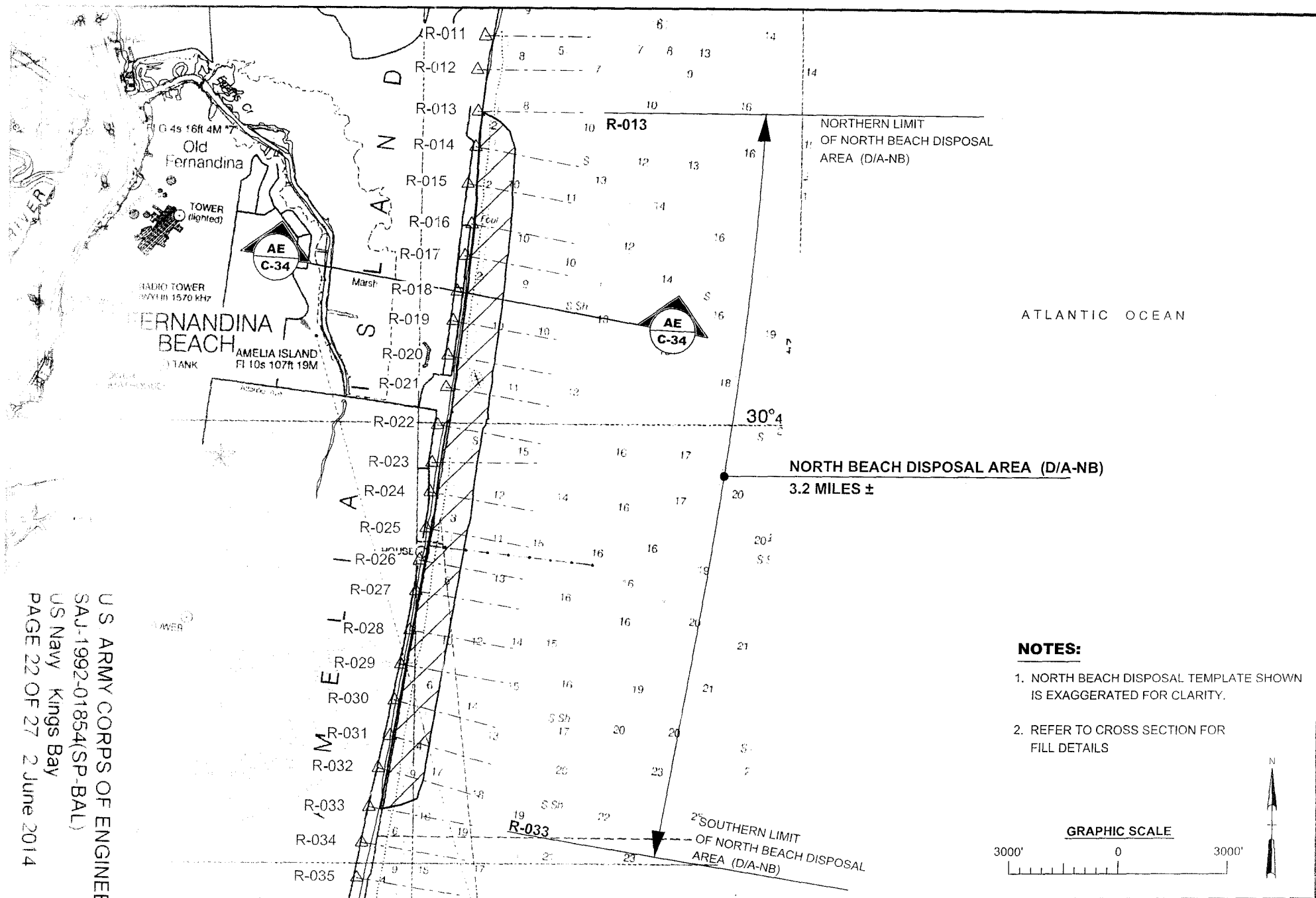
DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

Desn by:
JWL
Dwn by:
DBV / MR2
Ckd by:
AET
Dated:
FEBRUARY 2013

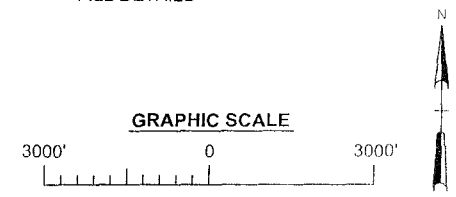
NAVAL SUBMARINE BASE KINGS BAY
NASSAU COUNTY, FLORIDA AND CAMDEN COUNTY, GEORGIA
ENTRANCE AND INNER CHANNEL MAINTENANCE DREDGING PROJECTS
SECTION 10/404 PERMIT PLATES
FT CLINCH DISPOSAL AREA (D/A-F)

PLATE

C-27a



- NOTES:**
1. NORTH BEACH DISPOSAL TEMPLATE SHOWN IS EXAGGERATED FOR CLARITY.
 2. REFER TO CROSS SECTION FOR FILL DETAILS



U.S. ARMY CORPS OF ENGINEERS
 SAJ-1992-01854(SP-BAL)
 U.S. Navy Kings Bay
 PAGE 22 OF 27 2 June 2014

DEPARTMENT OF ARMY PERMIT PLATE
 NOT FOR CONSTRUCTION

DEPARTMENT OF THE ARMY
 JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
 JACKSONVILLE, FLORIDA

Dsn by:
JWL
 Dwn by:
DBV / MR2
 Ckt by:
AET
 Dated:
FEBRUARY 2013

**NAVAL SUBMARINE BASE KINGS BAY
 NASSAU COUNTY, FLORIDA AND CAMDEN COUNTY, GEORGIA
 ENTRANCE AND INNER CHANNEL MAINTENANCE DREDGING PROJECTS
 SECTION 10/404 PERMIT PLATES
 NORTH BEACH DISPOSAL AREA (D/A-NB)**

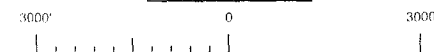
PLATE
C-29

CONTROL POINTS	PLANE COORDINATES GA83-FF	
	X	Y
POINT A	985,819.54	231,829.70
POINT B	902,220.48	231,829.70
POINT C	902,220.48	219,329.70
POINT D	884,000.30	219,329.70

NEARSHORE SURVEY NOTES:

1. REFER TO SURVEY NO. 12-087.
2. SOUNDINGS ARE IN FEET AND TENTHS AND REFER TO MEAN LOWER LOW WATER (MLLW).
3. ALL ELEVATIONS ARE BELOW THE CHART DATUM UNLESS PRECEDED BY A (+) SIGN.
4. PLANE COORDINATES ARE BASED ON THE TRANSVERSE MERCATOR PROJECTION FOR THE EAST ZONE OF GEORGIA AND REFERENCED TO NORTH AMERICAN DATUM OF 1983 (NAD83).

GRAPHIC SCALE



DEPARTMENT OF ARMY PERMIT PLATE
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DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

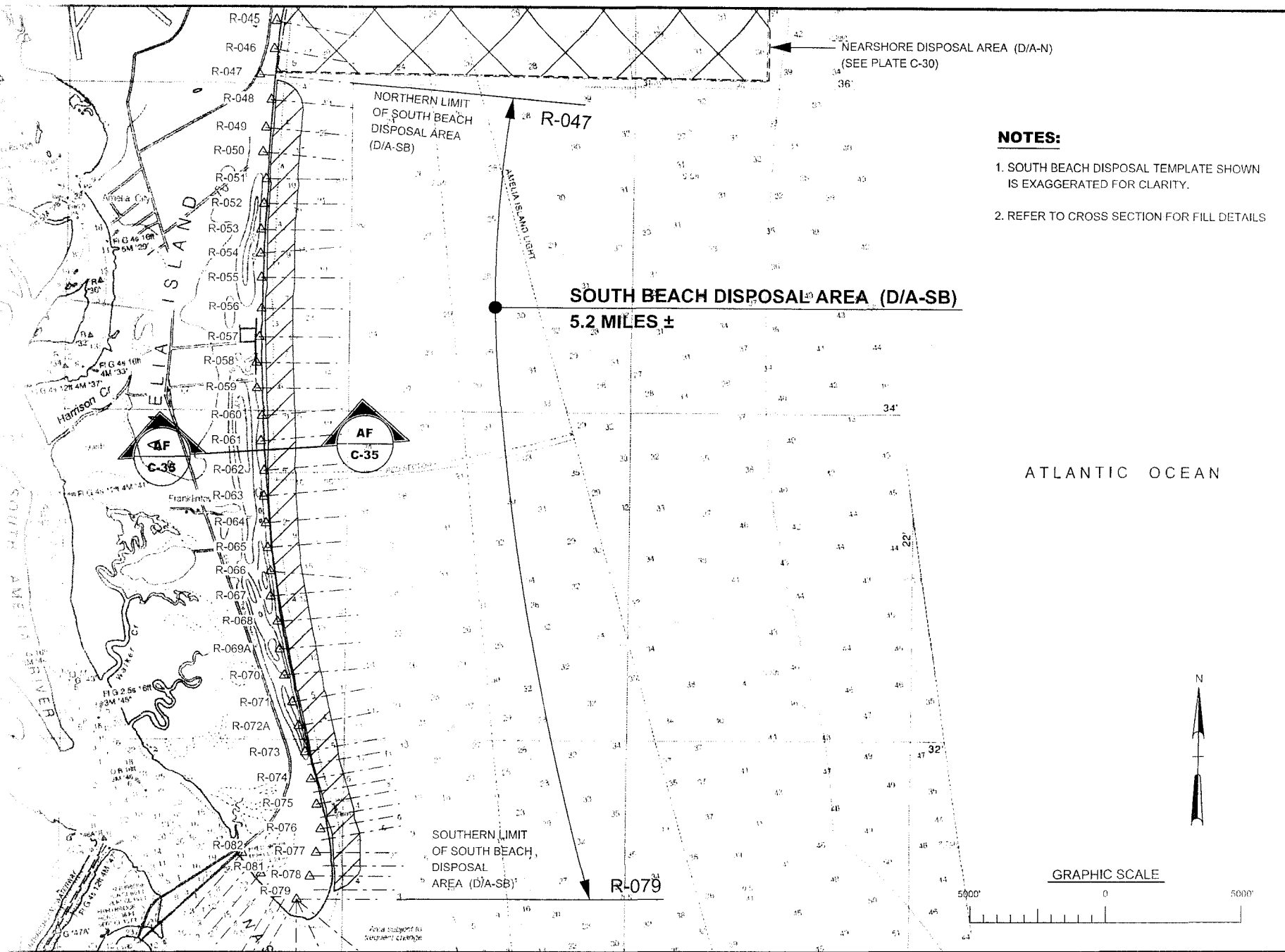
Dsn by: JWL
Dwn by: DBV / MR2
Ckd by: AET
Dated: FEBRUARY 2013

**NAVAL SUBMARINE BASE KINGS BAY
NASSAU COUNTY, FLORIDA AND CAMDEN COUNTY, GEORGIA
ENTRANCE AND INNER CHANNEL MAINTENANCE DREDGING PROJECTS
SECTION 10/404 PERMIT PLATES
NEARSHORE DISPOSAL AREA (D/A-N)**

PLATE

C-30

U.S. ARMY CORPS OF ENGINEERS
SAJ-1992-01854(SP-BAL)
US Navy - Kings Bay
PAGE 23 OF 27 2 June 2014



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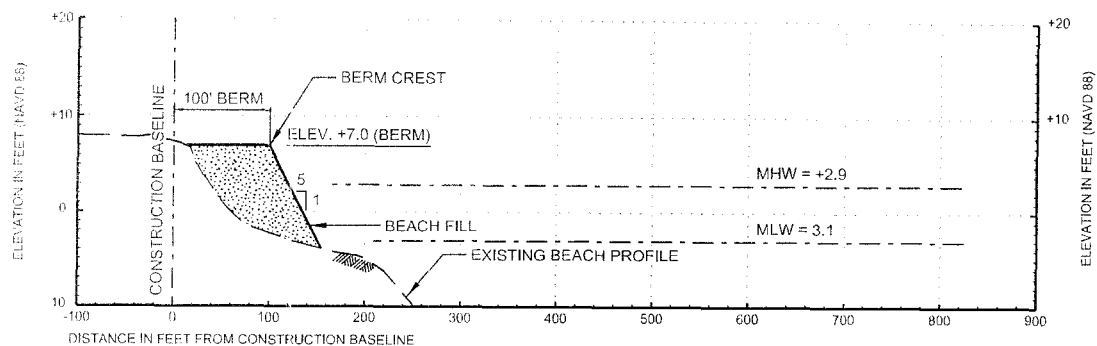
DEPARTMENT OF THE ARMY
 JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
 JACKSONVILLE, FLORIDA

Dsn by:
 JWL
 Dwn by:
 DBV / MR2
 Ckd by:
 AET
 Dated:
 FEBRUARY 2013

NAVAL SUBMARINE BASE KINGS BAY
NASSAU COUNTY, FLORIDA AND CAMDEN COUNTY, GEORGIA
ENTRANCE AND INNER CHANNEL MAINTENANCE DREDGING PROJECTS
SECTION 10/404 PERMIT PLATES
SOUTH BEACH DISPOSAL AREA (D/A-SB)

PLATE

C-31

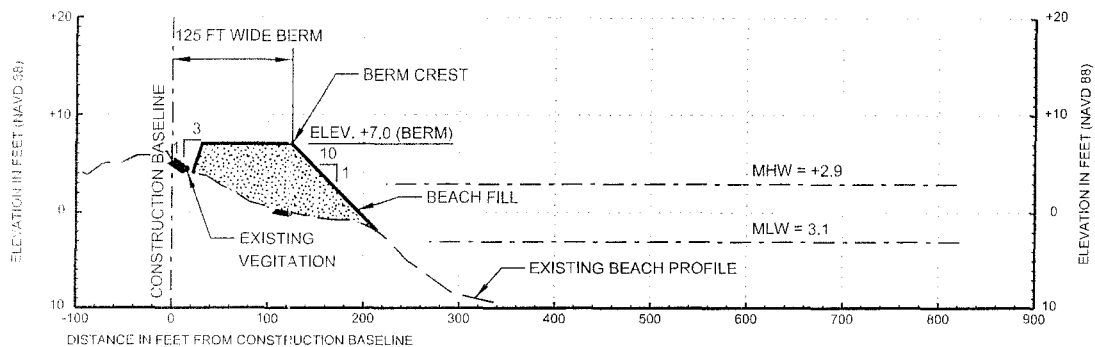


AB

C-27

TYPICAL FORT CLINCH GROIN DISPOSAL AREA (D/A-F) PLACEMENT SECTION

HORZ = SCALE: A
VERT = SCALE: B



AC

C-27

TYPICAL FORT CLINCH WESTERN DISPOSAL AREA (D/A-F) PLACEMENT SECTION

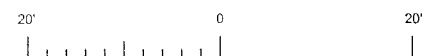
HORZ = SCALE: A
VERT = SCALE: B

GRAPHIC SCALES

"A"



"B"



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DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

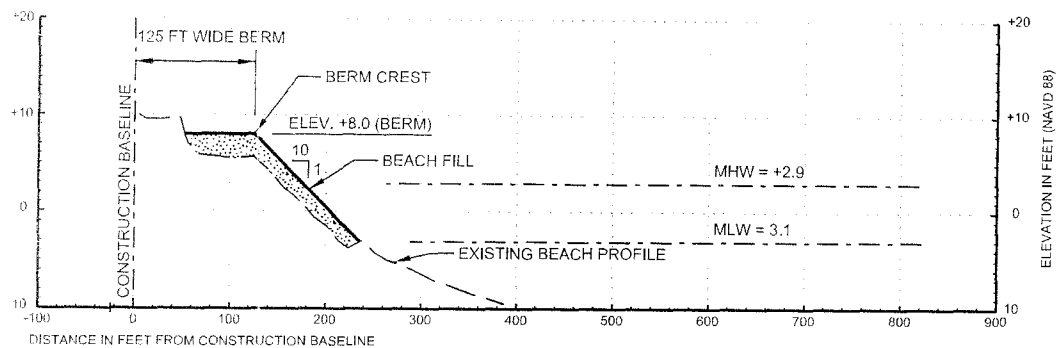
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AET
Dated:
FEBRUARY 2013

**NAVAL SUBMARINE BASE KINGS BAY
NASSAU COUNTY, FLORIDA AND CAMDEN COUNTY, GEORGIA
ENTRANCE AND INNER CHANNEL MAINTENANCE DREDGING PROJECTS
SECTION 10/404 PERMIT PLATES
BEACH DISPOSAL SECTIONS**

PLATE

C-33

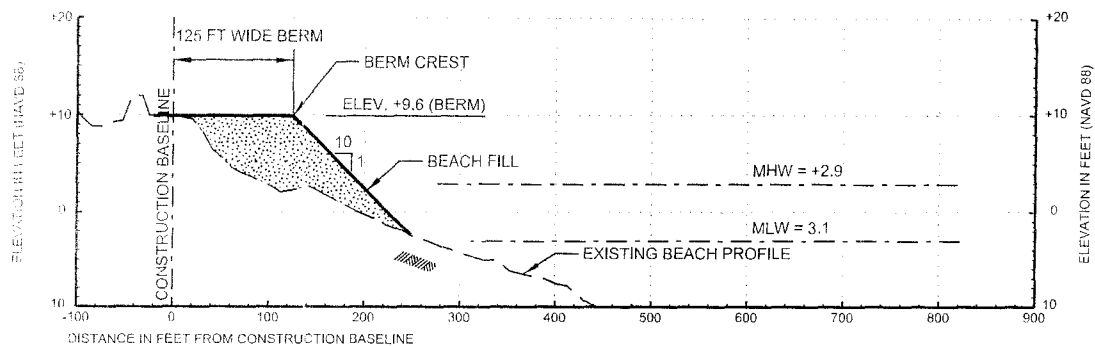
U S ARMY CORPS OF ENGINEERS
SAJ-1992-01854(SP-BA1)
US Navy Kings Bay
PAGE 25 OF 27 2 June 2014



AD
C-28

TYPICAL SOUTH JETTY DISPOSAL AREA (D/A-SJ) PLACEMENT SECTION

HORZ = SCALE: A
VERT = SCALE: B

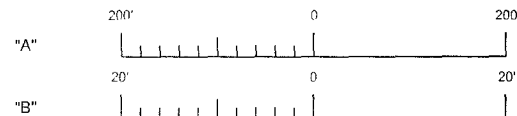


AE
C-29

TYPICAL NORTH BEACH DISPOSAL AREA (D/A-NB) PLACEMENT SECTION

HORZ = SCALE: A
VERT = SCALE: B

GRAPHIC SCALES



DEPARTMENT OF ARMY PERMIT PLATE
NOT FOR CONSTRUCTION

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

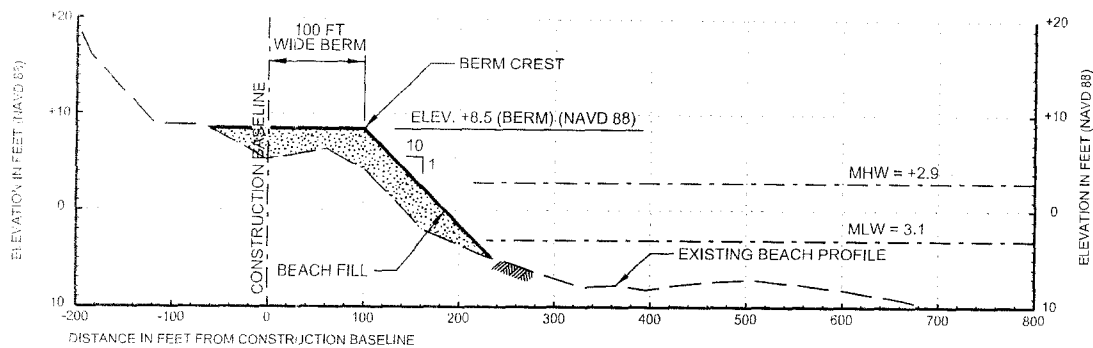
Dsn by: JWL
Dwn by: DBV / MR2
Ckd by: AET
Dated: FEBRUARY 2013

NAVAL SUBMARINE BASE KINGS BAY
NASSAU COUNTY, FLORIDA AND CAMDEN COUNTY, GEORGIA
ENTRANCE AND INNER CHANNEL MAINTENANCE DREDGING PROJECTS
SECTION 10/404 PERMIT PLATES
BEACH DISPOSAL SECTIONS

PLATE

C-34



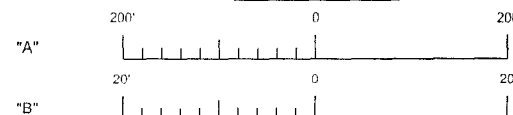


AF
C-31

TYPICAL SOUTH BEACH DISPOSAL AREA (D/A-SB) PLACEMENT SECTION

HORZ = SCALE: A
VERT = SCALE: E

GRAPHIC SCALES



DEPARTMENT OF ARMY PERMIT PLATE
NOT FOR CONSTRUCTION

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

Dsn by:
JWL
Dwn by:
DBV / MR2
Ckd by:
AET
Dated:
FEBRUARY 2013

**NAVAL SUBMARINE BASE KINGS BAY
NASSAU COUNTY, FLORIDA AND CAMDEN COUNTY, GEORGIA
ENTRANCE AND INNER CHANNEL MAINTENANCE DREDGING PROJECTS
SECTION 10/404 PERMIT PLATES
BEACH DISPOSAL SECTIONS**

PLATE

C-35

9. At least forty-eight (48) hours prior to the commencement of authorized activity, the Corps shall submit to the Department a written notice of commencement of activities indicating the anticipated start date and the anticipated completion date.
10. If historic or archaeological artifacts are discovered at any time on the project site, the Corps shall immediately notify the State Historic Preservation Officer, and if a significant deviation is necessary, shall also notify the Department.
11. Within a reasonable time after completion of project construction or a periodic maintenance dredging event, the Corps shall submit to the Department a written statement of completion. This statement shall notify the Department that the work has been completed as authorized and shall include a description of the actual work completed. The Department shall be provided, if requested, a copy of any as-built drawings required of the contractor or survey performed by the Corps.

SPECIFIC CONDITIONS:

1. Prior to each dredging event, the Corps will provide two copies of final construction plans and specifications for all authorized activities, which include the project specifications listed in the Department's Consolidated Notice of Intent to Issue a Joint Coastal Permit and Authorization to Use Sovereign Submerged Lands.
2. Prior to each dredging event, the Corps will provide to the Department two copies of the Contractor's Environmental Protection Plan submitted in accordance with Section 01410, Paragraph 3.1.5 of the project specifications.
3. Geotechnical data, in the form of core borings shall be provided, at a minimum, every 4 years following permit issuance to validate the character of the sediment within Cut 1N between Stations 220+00 and 230+00 of the entrance channel. Data coverage shall be sufficient to adequately characterize the sediment.

At least 30 days prior to the final completion of plans and bid documents for contracting of each maintenance dredging event to be conducted during the term of this permit, the Corps shall submit this data for review to the DEP Bureau of Beaches and Wetland Resources, 3900 Commonwealth Boulevard, Mail Station 300, Tallahassee, Florida 32399-3000 and to the DEP Northeast District Office, Submerged Lands and Environmental Resources Program, 7825 Baymeadows Way, Suite B-200, Jacksonville, Florida, 32256-7590. If the data shows extension of beach quality sand into this portion of the channel, then dredging plans and specifications for the maintenance dredging project shall be revised to extend the portion of the channel designated for beach placement accordingly.

4. At least 7 days prior to the planned commencement date of construction, the Corps will schedule a pre-construction conference to review the specific conditions of this permit and the environmental protection contract specifications with the Corps' contractors, work crews, the Department's permit staff representative, and the marine turtle permit holder. The permittee shall provide a minimum of 14 days advance written notification to the following offices advising of the date, time, and location of the pre-construction conference:

DEP Bureau of Beaches and Wetland Resources
3900 Commonwealth Boulevard, Mail Station 300
Tallahassee, Florida 32399-3000
fax: (850) 488-5257
Jennifer Brown, JCP Compliance Officer
Jennie Cowart, field representative
Field Rep. Dispatch Number 1-877-332-4307

FWCC Office of Environmental Services
Bureau of Protected Species Management
620 South Meridian Street
Tallahassee, Florida 32399-1600
fax: (850) 921-4369

DEP Northeast District Office
Submerged Lands and Environmental Resources Program
7825 Baymeadows Way, Suite B-200
Jacksonville, Florida, 32256-7590
fax: (904) 448-4319

5. All beach quality sand material within Cut 1N between channel Stations 100+00 and 220+00, including all settling basins within that channel reach and any extended portion of the channel out to Station 230+00, based on geotechnical data required in Special Condition 3, shall be placed within authorized beach disposal areas. If the placement of sand from the civil works portion of the channel onto the beach requires additional costs, then the Corps shall notify the Department sufficiently in advance to allow the Department to participate in cost-sharing to place the sand material onto the beach.
6. All dredged material placed on the beach shall be beach-compatible fill according to the criteria specified in Rule 62B-41.007(2), F.A.C. Dredged sand placed in the authorized nearshore disposal area shall contain no more than 20% fine material passing the #230 sieve by weight, and shall meet all other sediment and water quality standards.

7 In the event a hopper dredge is utilized for sand excavation, all conditions in the NMFS Biological Opinion for hopper dredging along the S.E. U.S. Atlantic Coast dated August 25, 1995 and Interim Biological Opinion dated April 9, 1997, as amended in the Regional Biological Opinion dated September 25, 1997, must be followed, unless superceded by a subsequent NMFS Opinion, and the Department is notified of the new Opinion. The Corps shall also forward to the Bureau of Protected Species Management in Tallahassee copies of the reports specified in the Opinion.

8. In addition to the standard manatee protection conditions included in the project plans and specifications, the following marine mammal protection conditions shall be followed

a. Blasting shall be prohibited.

b. At least one person shall be designated as a dedicated manatee observer, and shall be present on the dredge barge at all times when in-water work is being performed. That person shall have experience in manatee observation, and be equipped with polarized sunglasses to aid in observation. The manatee observer shall advise construction personnel to cease operation upon sighting a manatee within 50 feet of any in-water construction activity. When so advised, the contractor shall cease operation until the threat to the manatee has passed. Movement of work barges, other associated vessels, or any in-water work shall be minimized after sunset, when the possibility of spotting manatees is negligible.

From December 1 to March 31 all vessels should post a dedicated observer to spot right whales in the southeastern critical habitat area. The southeastern critical habitat area extends from 31°15'N to 30°15'N out 15 miles offshore and from 30°15'N to 28°00'N out 5 miles offshore. If a whale is seen, or when limited visibility conditions exist (bad weather, dark) the safe speed shall be reduced to 5 knots, and the vessel operator must stay 500 yards from the whale and take the necessary precautions to avoid the whale. Any whale sightings shall be reported to the U.S. Coast Guard at (904) 247-7301.

d. Lighting of nighttime clamshell dredging operations will be shielded and directed so as to include illumination of waters within 200 feet of the perimeter of the dredge barge.

e. If a clamshell dredge is used at any time for this project, the dredge barge operator will gravity-release the clamshell bucket only at the water surface, and then only after confirmation that there are no manatees within the safety distance identified in the standard construction conditions.

- 9 Reports on all nesting activity, and marine turtle protection measures taken during construction, and nest success shall be provided for the initial nesting season and for a minimum of up to three additional nesting seasons (April 15 through November 30). Monitoring of nesting activity in the nesting seasons following construction shall include, but not be limited to, daily surveys enumerating nesting activity and evaluating hatching success. Reports shall also include hatching success of all relocated nests.
10. The local sponsor or the Navy must conduct the necessary marine turtle protection and monitoring requirements, consistent with the latest U.S. Fish and Wildlife Service Biological Opinion, Terms and Conditions:
 - a. A sea turtle nesting survey and conservation program is required if any portion of the beach nourishment activities occurs between April 15 through November 30. Nesting surveys shall begin 65 days prior to nourishment activities or by April 15, whichever is later. Nesting surveys shall continue through the end of the project or through November 30, whichever is earlier. Nests that may be affected by construction activities shall be relocated per the following requirements.
 - 1 Nest surveys and egg relocations shall only be conducted by personnel with prior experience and training in nest survey and egg relocation procedures. Surveyors shall have a valid Florida Fish and Wildlife Conservation Commission (FWC) marine turtle permit. Nest surveys shall be conducted daily between sunrise and 9 a.m. These surveys shall be performed in such a manner so as to ensure that daily movement of the construction activity does not extend into any unsurveyed area.
 - 1.2 Only those nests that may be affected by construction activities are required to be relocated. Any nests requiring relocation shall be moved between sunrise and 9 a.m. each day to a nearby self release beach site in a secure setting where artificial lighting will not interfere with hatchling orientation. Nest relocations in association with construction activities shall not be performed if construction activities are not anticipated to be initiated within 65 days of the date of a nesting event. Nest relocations in association with construction activities shall cease when construction activities no longer threaten nests. Nests deposited within areas where construction activities have ceased or will not occur for 65 days shall be marked and left in place unless other factors threaten the success of the nest. Any nests left in the active construction zone shall be clearly marked, and all mechanical equipment shall avoid nests by at least 10 feet.
 - b. Immediately after completion of the beach nourishment project and prior to of the next three nesting seasons, beach compaction shall be monitored in the area of

restoration in accordance with a protocol agreed to by the FWC, the Department, and the applicant. At a minimum, the protocol provided under 1 and 2 below shall be followed. If required, the area shall be tilled to a depth of 36 inches. All tilling activity must be completed prior to April 15. If the project is completed during the nesting season, tilling shall not be performed in areas where nests have been left in place or relocated. A report on the results of compaction monitoring shall be submitted to the FWC and Department prior to any tilling actions being taken. An annual summary of compaction and the actions taken shall be submitted to the FWC. This condition shall be evaluated annually and may be modified if necessary to address sand compaction problems identified during the previous year. Note: The requirement for compaction monitoring can be eliminated if the decision is made to till regardless of post construction compaction levels. Also, out-year compaction monitoring and remediation are not required if placed material no longer remains on the dry beach.

Compaction sampling stations shall be located at 500-foot intervals along the project area. One station shall be at the seaward edge of the dune/bulkhead line (when material is placed in this area); one station shall be midway between the dune line and the high water line (normal wrack line); and one station shall be located just landward of the high water line. At each station, the cone penetrometer shall be pushed to a depth of 6, 12, and 18 inches three times (three replicates). Material may be removed from the hole if necessary to ensure accurate readings of successive levels of sediment. The penetrometer may need to be reset between pushes, especially if sediment layering exists. layers of highly compact material may lay over less compact layers. Replicates shall be located as close to each other as possible, without interacting with the previous hole and/or disturbed sediments. The three replicate compaction values for each depth are then averaged to produce final values for each depth at each station. Reports shall include all 27 values for each transect line, and the final 9 averaged compaction values.

2. If the average value for any depth exceeds 500 psi for any two or more adjacent stations, then that area shall be tilled immediately prior to April 15. If values exceeding 500 psi are distributed throughout the project area but in no case do those values exist at two adjacent stations at the same depth, then consultation with the Department and FWC shall be required to determine if tilling is required. If a few values exceeding 500 psi are present randomly within the project area, tilling shall not be required.

- c. Visual surveys for escarpments along the project area shall be made immediately after completion of the beach nourishment project and prior to April 15 for three

consecutive years following construction. Results of the surveys shall be submitted to the FWC following their collection. Escarpments that interfere with sea turtle nesting or that exceed 18 inches in height for a distance of 100 feet shall be leveled to the natural beach contour by April 15. If the project is completed during the sea turtle nesting and hatching season, escarpments may be required to be leveled immediately, while protecting nests that have been relocated or left in place. The FWC shall be contacted immediately if subsequent reformation of escarpments that interfere with sea turtle nesting or that exceed 18 inches in height for a distance of 100 feet occurs during the nesting and hatching season to determine the appropriate action to be taken. If it is determined that escarpment leveling is required during the nesting or hatching season, the FWC shall provide a brief written authorization that describes methods to be used to reduce the likelihood of impacting existing nests. An annual summary of escarpment surveys and actions taken shall be submitted to the FWC. Marine turtle nesting surveys must be conducted as specified in Specific Condition 8, and 9b, during implementation of this requirement.

- d. The applicant shall arrange a meeting between representatives of the contractor, the FWC, the Florida Department of Environmental Protection and the permitted person responsible for egg relocation at least 30 days prior to the commencement of work on this project. At least 10 days advance notice shall be provided prior to conducting this meeting. This will provide an opportunity for explanation and/or clarification of the sea turtle protection measures.
- e. From April 15 through November 30, no staging areas for construction equipment shall be allowed on the beach where it could hinder sea turtle nesting and hatching activities. In addition, all construction pipes that are placed on the beach shall be located as far landward as possible without compromising the integrity of the existing or reconstructed dune system. Temporary storage of pipes shall be off of the beach to the maximum extent possible. Temporary storage of pipes on the beach shall be in such a manner so as to impact the least amount of nesting habitat and shall likewise not compromise the integrity of the dune systems (placement of pipes perpendicular to the shoreline is recommended). Nighttime storage of construction equipment not in use shall be off the beach to minimize disturbance to sea turtles nesting and hatching activities.
- f. From April 15 through November 30, all on-beach lighting associated with the project shall be limited to the immediate area of active construction only. Shielded low pressure sodium vapor lights are recommended to minimize illumination of the nesting beach and nearshore waters. Lighting on offshore equipment shall be minimized through reduction, shielding lowering, and appropriate placement of lights to avoid excessive illumination of the water, while meeting all U.S. Coast

Guard and OSHA requirements. Shielded low pressure sodium vapor lights are highly recommended for lights on offshore equipment that cannot be eliminated. Shields must be affixed to the light housing and be large enough to block light from all lamps from being transmitted outside the construction area (see lighting schematic).

- g. In the event a sea turtle nest is excavated during construction activities, all work shall cease in that area immediately and the permitted person responsible for egg relocation for the project should be notified so the eggs can be moved to a suitable relocation site.
- h. Upon locating a dead, injured, or sick endangered or threatened sea turtle specimen, initial notification must be made to the FWC at 1-800-DIAL FMP. Care should be taken in handling sick or injured specimens to ensure effective treatment and care, and in handling dead specimens to preserve biological materials in the best possible state for later analysis of cause of death. In conjunction with the care of sick or injured endangered or threatened species or preservation of biological materials from a dead animal, the finder has the responsibility to ensure that evidence intrinsic to the specimen is not unnecessarily disturbed.

MONITORING REQUIRED:

Water Quality - Turbidity - Nephelometric Turbidity Units (NTUs)

Frequency: Twice daily at least 4 hours apart during all dredging and disposal operations.

Dredge Site Locations:

Background: At mid-depth, at least 1,500 meters upcurrent from the dredge and clearly outside the influence of any turbidity generated by the project.

Compliance: At mid-depth, no more than 1,500 meters downcurrent from the dredge within the densest portion of any visible turbidity plume.

Disposal Site Locations Within the OFW:

Background: At the surface and 1 meter above the bottom, approximately 150 meters offshore and at least 1,500 meters upcurrent from the discharge point, clearly outside of the influence of any turbidity generated by this project.

Compliance: At the surface and 1 meter above the bottom, approximately 150 meters offshore and no more than 1,500 meters downcurrent from the discharge point, within the densest portion of any visible turbidity plume.

Disposal Site Locations Outside the OFW (Excluding ODMDS):

Background: At the surface and 1 meter above the bottom, approximately 150 meters offshore and at least 300 meters upcurrent from the discharge point, clearly outside of the influence of any turbidity generated by this project.

Compliance: At the surface and 1 meter above the bottom, approximately 150 meters offshore and no more than 150 meters downcurrent from the discharge point, within the densest portion of any visible turbidity plume.

The compliance locations given above shall be considered the limits of the temporary mixing zone for turbidity allowed during construction. During all maintenance dredging and disposal operations, turbidity levels shall not exceed these standards and mixing zone limits. If monitoring reveals turbidity levels at the compliance sites greater than background turbidity levels **within the OFW** or greater than 29 NTUs above the associated background turbidity levels **outside the OFW**, construction activities shall cease immediately and not resume until corrective measures have been taken and turbidity has returned to acceptable levels.

The expanded mixing zone (greater than 150 meter) for this project shall not be used unless and until the final order for Variance No. 0196204-003-EV has been issued.

In addition to suspending all work contributing to the water quality violation, the following measures shall be taken by the permittee whenever turbidity levels at the limit of the mixing zone exceed the standards described in the Monitoring Required section, pursuant to Rule 62-302, F.A.C.:

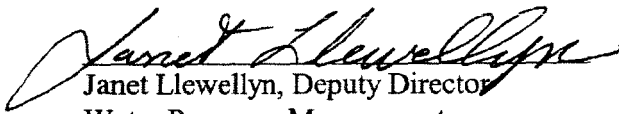
- a. Modify the work procedures that were responsible for the violation.
- b. Notify the Bureau of Beaches and Wetland Resources, JCP Section, and the DEP Northeast District Office, Submerged Lands and Environmental Resources Program, within 24 hrs. of the time the violation is first detected. Currently, the fax numbers for these offices are (850) 488-5257 and (904) 448-4319 respectively.

Copies of all reports (Turbidity Monitoring Test Report, Section 01411, Appendix A, Plans and Specifications) shall be submitted to the Bureau of Beaches and Wetland Resources in

Tallahassee and the DEP Northeast District Office in Jacksonville on a weekly basis within seven days of collection. The data shall be submitted with a cover letter containing the following information: (1) "Permit Number: 0196204-001-JC"; (2) "Project Name: Maintenance Dredging of the Kings Bay Entrance Channel"; (3) a statement describing the methods used in collection, handling, storage and analysis of the samples; (4) a map indicating the sampling locations; and (5) a signed statement by the individual responsible for implementation of the sampling program concerning the authenticity, precision, limits of detection and accuracy of the data.


Executed in Tallahassee, Florida.

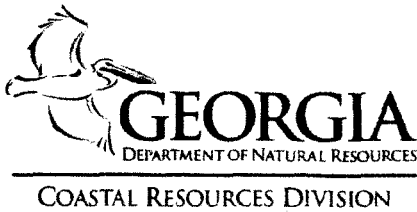
STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION


Janet Llewellyn, Deputy Director
Water Resource Management

FILING AND ACKNOWLEDGMENT

FILED, on this date, pursuant to Section 120.52, Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

 9/22/03
Deputy Clerk Date

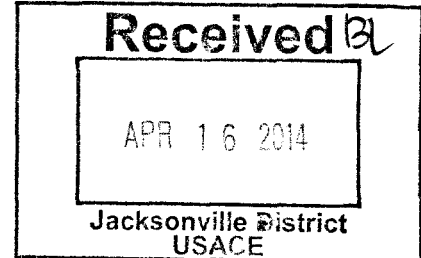


MARK WILLIAMS
COMMISSIONER

A.G. SPUD WOODWARD
DIRECTOR

April 3, 2014

USACE Savannah District
Attn: Ms. Sherelle Reinhardt
100 West Oglethorpe Avenue
Savannah, Georgia 31401-3640



USACE Jacksonville District
Attn: Ms. Beverly Lawrence
P.O. Box 4970
Jacksonville, Florida 32232-0019

RE: **Supplemental Conditional** Federal Consistency Certification of SAS-2005-01790 & SAJ-1992-01854 (SP-BAL), U.S. Navy, Kings Bay Submarine Base, Inner Channel, Turning Basins, Berths & Portions of Entrance Channel, Maintenance Dredging, GA & FL

Dear Ms. Reinhardt & Ms. Lawrence:

Staff of the Georgia Coastal Management Program (GCMP), Georgia Department of Natural Resources Coastal Resources Division (GaDNR/CRD), and GaDNR Wildlife Resources Division (GaDNR/WRD) participated in a telephone discussion March 21, 2014 with the Jacksonville District Corps of Engineers' Planning Division, who is serving as Agent for the Navy on the above referenced permits. We have added clarification to our March 17, 2014 letter below with supplemental language in bold.

The US Army Corps of Engineers' 1991 South Atlantic Division Protocols for hopper dredging bolster Georgia's Endangered Wildlife Act (O.C.G.A. 27-3-130 et seq.) and Georgia's Water Quality Protection Act (O.C.G.A. 12-5-20 et seq.) in protecting sea turtles and provide a basis for many of the conditions below. The Georgia Coastal Management Program concurs with the Navy's federal consistency certification with the following **conditions**:

1. The Navy shall notify GCMP and GaDNR/EPD of any modifications to the proposed activity.
2. All hopper dredging activities shall be restricted to 15 December through 31 March unless prior approval is obtained from GCMP.
3. Hopper dredges shall have 100% inflow and outflow screening that is kept functional to the **maximum extent practicable. Should inflow screening become inoperable for more than 48 continuous hours, approval must be obtained by GCMP to continue operations with only outflow screens.**
4. Hopper dredge inspection checklists shall be provided to GaDNR/WRD prior to commencing dredging.
5. Hopper dredges shall have protected species observers onboard to monitor each dredging

- event as unseasonably warm waters can cause higher than anticipated turtle abundance during the winter months.
6. Sea turtle takes shall be reported to GaDNR/WRD within 24 hours.
7. **GaDNR/WRD personnel shall be allowed onboard the dredge at least once during each dredging event.** Kings Bay and Jacksonville District Corps personnel shall coordinate access to hopper dredges for GaDNR/WRD personnel within a reasonable timeframe of request, not to exceed **3 business days**.
8. Contact information for Kings Bay and Jacksonville District Corps access coordinators shall be provided to GCMP prior to **each dredging event**.
9. Hopper dredging activities will be halted if sea turtle takes exceed the limits specified by NOAA.
10. Bed leveling equipment may not be used unless prior approval is obtained from GCMP.

Requests for modifications to conditions should be made to Kellie Moore at Kellie.Moore@gadnr.org. The contact for time-sensitive requests to modify conditions is Mark Dodd (cell 912-506-7260 or e-mail Mark.Dodd@dnr.state.ga.us).

These conditions may be incorporated into permit SAS-2005-01790 and SAJ-1992-01854 by the Navy submitting a modified application to both Savannah District and Jacksonville District Corps of Engineers and copying us. The GCMP will then issue an unconditional federal consistency concurrence letter to both Districts. Alternatively, if the Navy is agreeable, both Savannah and Jacksonville District Corps of Engineers may incorporate these conditions into their permits by reference.

If these conditions are not acceptable to the Navy, all parties shall treat this as an objection. Pursuant to 15 CFR Part 930, Subpart H, and within 30 days of receipt of this letter, the Navy may request that the Secretary of Commerce override this objection. In order to grant an override request, the Secretary must find that the activity is consistent with the objectives or purposes of the Coastal Zone Management Act, or is necessary in the interest of national security. The Navy must send a copy of the request and supporting information to GCMP, Savannah District & Jacksonville District. The Secretary may collect fees from the Navy for administering and processing the Navy's request.

Please feel free to contact Kelie Moore or me if we can be of further assistance in this matter.

Sincerely,

B. Game

Brad Gane
Ecological Services Section Chief

Attachment: GaDNR/CRD March 17, 2014 Conditional Concurrence Letter to SAS & SAJ

STANDARD MANATEE CONDITIONS FOR IN-WATER WORK

2011

The permittee shall comply with the following conditions intended to protect manatees from direct project effects:

- a. All personnel associated with the project shall be instructed about the presence of manatees and manatee speed zones, and the need to avoid collisions with and injury to manatees. The permittee shall advise all construction personnel that there are civil and criminal penalties for harming, harassing, or killing manatees which are protected under the Marine Mammal Protection Act, the Endangered Species Act, and the Florida Manatee Sanctuary Act.
- b. All vessels associated with the construction project shall operate at "Idle Speed/No Wake" at all times while in the immediate area and while in water where the draft of the vessel provides less than a four-foot clearance from the bottom. All vessels will follow routes of deep water whenever possible.
- c. Siltation or turbidity barriers shall be made of material in which manatees cannot become entangled, shall be properly secured, and shall be regularly monitored to avoid manatee entanglement or entrapment. Barriers must not impede manatee movement.
- d. All on-site project personnel are responsible for observing water-related activities for the presence of manatee(s). All in-water operations, including vessels, must be shutdown if a manatee(s) comes within 50 feet of the operation. Activities will not resume until the manatee(s) has moved beyond the 50-foot radius of the project operation, or until 30 minutes elapses if the manatee(s) has not reappeared within 50 feet of the operation. Animals must not be herded away or harassed into leaving.
- e. Any collision with or injury to a manatee shall be reported immediately to the Florida Fish and Wildlife Conservation Commission (FWC) Hotline at 1-888-404-3922. Collision and/or injury should also be reported to the U.S. Fish and Wildlife Service in Jacksonville (1-904-731-3336) for north Florida or Vero Beach (1-772-562-3909) for south Florida, and to FWC at ImperiledSpecies@myFWC.com
- f. Temporary signs concerning manatees shall be posted prior to and during all in-water project activities. All signs are to be removed by the permittee upon completion of the project. Temporary signs that have already been approved for this use by the FWC must be used. One sign which reads *Caution: Boaters* must be posted. A second sign measuring at least 8 ½" by 11" explaining the requirements for "Idle Speed/No Wake" and the shut down of in-water operations must be posted in a location prominently visible to all personnel engaged in water-related activities. These signs can be viewed at MyFWC.com/manatee. Questions concerning these signs can be sent to the email address listed above.

CAUTION: MANATEE HABITAT

All project vessels

IDLE SPEED / NO WAKE

When a manatee is within 50 feet of work
all in-water activities must

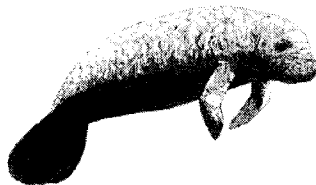
SHUT DOWN

Report any collision with or injury to a manatee:

Wildlife Alert:

1-888-404-FWCC(3922)

cell *FWC or #FWC



HOPPER DREDGE STARTUP INSPECTION CHECKLIST

Dept. of the Army Permit Number: SAJ- _____ - _____

Project Name: _____

Project Location: _____

Dredging Company Name (Contractor): _____

Vessel Name: _____

Inspector's Name and Title: _____

Date of Inspection: _____

Dredging contractor startup dredge inspection requirements:

1. _____ Is the Turtle Deflector Device submittal approved?
2. _____ Is the approved Turtle Deflector Device submittal being used to perform this startup-dredge inspection?
3. _____ Are the turtle observers onboard the vessel during dredging operations?
4. _____ Is dredging data recording system (DQM/Silent Inspector) turned on and recording draghead elevation, slurry density & velocity and is data being submitted?
5. _____ Was a paint test performed to assure the deflector is plowing at least 6" into the dredge material while the dragtender is consistently maintaining the submitted and approved approach angle to a tolerance of + 0 to – 4 degrees.

DATE: _____, TIME: _____

6. _____ Is the drag tender operating the dredge pump in accordance with the Hopper Dredging Terms and Conditions as follows:
 - a. _____ Starting the dredge pump only when the draghead is firmly on the bottom by watching the slurry specific gravity & swell compensator.
 - b. _____ Reducing the slurry velocity to less than 5 feet per second by reducing the dredge pump RPM to idle speed before raising the draghead off the bottom. Raising the draghead off the bottom to increase suction velocities is strictly prohibited.
 - c. _____ Consistently maintaining the approach angle to a tolerance of + 0 to – 4 degrees whenever the draghead is on the bottom and the dredge pump is operating

- d. _____ Watch the dragtender through one cycle minimum to see if the draghead is being raised off the bottom because:
- i. _____ Plugging of the draghead.
 - ii. _____ Ship crabbing.
 - iii. _____ Draghead tracking under or away from the dredge.

COMMENTS: _____

(Dredging Contractor Signature)

(Date)

HOPPER DREDGE PRE-DREDGE INSPECTION CHECKLIST

Dept. of the Army Permit No.: SAJ-_____ - _____

Project Name: _____

Project Location: _____

Dredging Company Name (Contractor): _____

Vessel Name: _____

Inspector's Name and Title: _____

Date of Inspection: _____

Dredging contractor pre-dredge inspection requirements:

1. _____ Has the dredging contractor read the Department of the Army Permit to determine the permit requirements for the protection of endangered sea turtles?
2. _____ Is a copy of the Department of the Army permit on board the vessel?
3. _____ Has the dredging contractor reviewed the applicable Biological Opinion located at:
<http://el.erdc.usace.army.mil/seaturtles/refs-bo.cfm>
4. _____ Has the Turtle Deflector Device been approved by the Corps? (Dredging shall not start until the Turtle Deflector Device is approved and the Initial Hopper Dredge Submittal form has been signed by the Corps).
5. _____ Is a copy of the approved Turtle Deflector Device submittal on board the vessel?
6. _____ Is the approved Turtle Deflector Device submittal being used to perform this pre-dredge inspection?
7. _____ Is the Turtle Deflector Device that is on the dredge the same as the approved submitted Turtle Deflector Device?
8. _____ Is the Turtle Deflector Device structurally sound?
9. _____ Is the leading edge angle of the Turtle Deflector Device 90 degrees or less.
10. _____ Is the forward vertical face of the Turtle Deflector Device a minimum of 15" tall?
11. _____ Are the approach angles submitted for this project dredging depths.
12. _____ Are the opening between Turtle Deflector Device and draghead no more than 4"X4"?
13. _____ Is the aft deflector attachment to the draghead rigid (hinged or trunnion)?
14. _____ Is the forward deflector attachment link length measurement the same length as shown on the approved Turtle Deflector Device submittal for this project dredging depth and project approach angle?

15. _____ Are inflow screens and overflow screens installed?
16. _____ Are inflow basket screen openings no more than 4"X4"?
17. _____ Is there adequate lighting of inflow and overflow screens and proper access for cleaning.
18. _____ Is turtle trawling required by the DA permit?
19. _____ Is the dredging data recording system (DQM/Silent Inspector) operational and the certification current?

COMMENTS: _____

I certify that the above components are properly installed and operational in accordance with the SARBO and the DA permit for the referenced project.

(Dredging Contractor Signature)

(Date)

HOPPER DREDGE DEFLECTOR DEVICE CHECKLIST

Dept. of the Army Permit Number: SAJ-_____ **-**_____

Project Name: _____

Project Location: _____

Dredging Company Name (Contractor): _____

Vessel Name: _____

1. _____ Dredging contractor has received a copy of and read the Dept. of the Army Permit for this project.
2. _____ Permittee and dredging contractor has reviewed the applicable Biological Opinion located at: <http://el.erdc.usace.army.mil/seaturtles/refs-bo.cfm>
3. _____ Dredging depth(s) for the project:

Starting Depth(s): _____

Final Depth(s): _____

4. _____ Turtle Deflector Device Submittal. Attach a detailed drawing showing structural design and soundness (see attached example drawing) of the Sea Turtle Deflector Device.

The drawing shall include the following information:

- a. _____ Deflector leading edge angle (90 degrees or less).
- b. _____ Forward vertical face measurement of the deflector (minimum height of 15").
- c. _____ The approach angle(s) for this project dredging depths.
- d. _____ The opening between deflector and draghead (maximum of 4"x4").
- e. _____ The aft rigid deflector attachment to the draghead (hinged or trunnion).
- f. _____ The forward deflector attachment link length described for the project dredging depths and project approach angles.

COMMENTS: _____

(Permittee Signature)

(Date)

(Name and Title - Printed)

(Dredging Contractor Signature)

(Date)

(Name and Title - Printed)

Hopper dredging shall not commence until this submittal is approved and signed by the Corps:

(District Engineer)

(Date)

Sea Turtle Trawling Requirements - Non-Capture

- a. To reduce the chances of sea turtles becoming entangled and caught in the net webbing during non-capture trawl sweeping, use standard flat-style shrimp trawling nets. Nets shall have one to two-inch webbing holes, the webbing should be made of nylon material (preferably dipped.)
- b. The bag end of these nets shall be completely cut out so that the nets remaining on the rigging are approximately 30 to 50-feet long. The nets shall be long enough to provide a trailing length of net in the water to "stimulate turtles" to move but not be long enough to be able to twist when: 1) being pulled in the water; 2) being pulled up and onto the deck; 3) the vessel is stationary; or 4) the trawl vessel turns while trawling. This net length may be shorter or longer depending on the specific configurations of the trawler and its rigging, but must be set up to specifically prevent the twisting of the net. The nets should be installed and adjusted such that organisms are not being collected (turtles and other by-catch).
- c. The bag end of the nets shall be cut away to create a large open end in the nets. The webbing shall be monitored so that tears and rips do not occur in the remaining webbing that might entangle and capture organisms (particularly turtles).
- d. To ensure that the lead line and mouth of the trawl nets maintain contact with the seafloor as best as possible, the lead line of each net shall be rigged with weights, mud rollers, tickler chains and/or trawling cookies (as appropriate for the environmental conditions and sediment type).
- e. For the first 48 hours after beginning non-capture trawling operations, pull and check the nets every hour to evaluate and document the:
 - Status of the nets (particularly twisting of the tail end)
 - Net contents (turtles and other bycatch)

After the first 48-hours and appropriate net configuration has been established, gradually increase trawling times to a maximum of 2-3-hours.

CAUTION: MANATEE HABITAT

All project vessels

IDLE SPEED / NO WAKE

When a manatee is within 50 feet of work
all in-water activities must

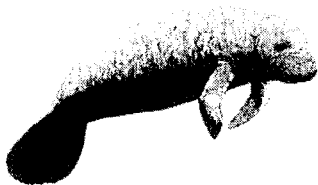
SHUT DOWN

Report any collision with or injury to a manatee:

Wildlife Alert:

1-888-404-FWCC(3922)

cell *FWC or #FWC



HOPPER DREDGE STARTUP INSPECTION CHECKLIST

Dept. of the Army Permit Number: SAJ- _____ - _____

Project Name: _____

Project Location: _____

Dredging Company Name (Contractor): _____

Vessel Name: _____

Inspector's Name and Title: _____

Date of Inspection: _____

Dredging contractor startup dredge inspection requirements:

1. _____ Is the Turtle Deflector Device submittal approved?
2. _____ Is the approved Turtle Deflector Device submittal being used to perform this startup-dredge inspection?
3. _____ Are the turtle observers onboard the vessel during dredging operations?
4. _____ Is dredging data recording system (DQM/Silent Inspector) turned on and recording draghead elevation, slurry density & velocity and is data being submitted?
5. _____ Was a paint test performed to assure the deflector is plowing at least 6" into the dredge material while the dragtender is consistently maintaining the submitted and approved approach angle to a tolerance of + 0 to - 4 degrees.
DATE: _____, TIME: _____
6. _____ Is the drag tender operating the dredge pump in accordance with the Hopper Dredging Terms and Conditions as follows:
 - a. _____ Starting the dredge pump only when the draghead is firmly on the bottom by watching the slurry specific gravity & swell compensator.
 - b. _____ Reducing the slurry velocity to less than 5 feet per second by reducing the dredge pump RPM to idle speed before raising the draghead off the bottom. Raising the draghead off the bottom to increase suction velocities is strictly prohibited.
 - c. _____ Consistently maintaining the approach angle to a tolerance of + 0 to - 4 degrees whenever the draghead is on the bottom and the dredge pump is operating

- COMMENTS:**

(Date)

HOPPER DREDGE PRE-DREDGE INSPECTION CHECKLIST

Dept. of the Army Permit No.: SAJ- _____ - _____

Project Name: _____

Project Location: _____

Dredging Company Name (Contractor): _____

Vessel Name: _____

Inspector's Name and Title: _____

Date of Inspection: _____

Dredging contractor pre-dredge inspection requirements:

1. _____ Has the dredging contractor read the Department of the Army Permit to determine the permit requirements for the protection of endangered sea turtles?
2. _____ Is a copy of the Department of the Army permit on board the vessel?
3. _____ Has the dredging contractor reviewed the applicable Biological Opinion located at: <http://el.erdc.usace.army.mil/seaturtles/refs-bo.cfm>
4. _____ Has the Turtle Deflector Device been approved by the Corps? (Dredging shall not start until the Turtle Deflector Device is approved and the Initial Hopper Dredge Submittal form has been signed by the Corps).
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6. _____ Is the approved Turtle Deflector Device submittal being used to perform this pre-dredge inspection?
7. _____ Is the Turtle Deflector Device that is on the dredge the same as the approved submitted Turtle Deflector Device?
8. _____ Is the Turtle Deflector Device structurally sound?
9. _____ Is the leading edge angle of the Turtle Deflector Device 90 degrees or less.
10. _____ Is the forward vertical face of the Turtle Deflector Device a minimum of 15" tall?
11. _____ Are the approach angles submitted for this project dredging depths.
12. _____ Are the opening between Turtle Deflector Device and draghead no more than 4"X4"?
13. _____ Is the aft deflector attachment to the draghead rigid (hinged or trunnion)?
14. _____ Is the forward deflector attachment link length measurement the same length as shown on the approved Turtle Deflector Device submittal for this project dredging depth and project approach angle?

15. _____ Are inflow screens and overflow screens installed?
16. _____ Are inflow basket screen openings no more than 4"X4"?
17. _____ Is there adequate lighting of inflow and overflow screens and proper access for cleaning.
18. _____ Is turtle trawling required by the DA permit?
19. _____ Is the dredging data recording system (DQM/Silent Inspector) operational and the certification current?

COMMENTS: _____

I certify that the above components are properly installed and operational in accordance with the SARBO and the DA permit for the referenced project.

(Dredging Contractor Signature)

(Date)

HOPPER DREDGE DEFLECTOR DEVICE CHECKLIST

Dept. of the Army Permit Number: SAJ-_____ - _____

Project Name: _____

Project Location: _____

Dredging Company Name (Contractor): _____

Vessel Name: _____

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2. _____ Permittee and dredging contractor has reviewed the applicable Biological Opinion located at: <http://el.erdc.usace.army.mil/seaturtles/refs-bo.cfm>
3. _____ Dredging depth(s) for the project:
Starting Depth(s): _____
Final Depth(s): _____
4. _____ Turtle Deflector Device Submittal. Attach a detailed drawing showing structural design and soundness (see attached example drawing) of the Sea Turtle Deflector Device.
The drawing shall include the following information:
 - a. _____ Deflector leading edge angle (90 degrees or less).
 - b. _____ Forward vertical face measurement of the deflector (minimum height of 15").
 - c. _____ The approach angle(s) for this project dredging depths.
 - d. _____ The opening between deflector and draghead (maximum of 4"x4").
 - e. _____ The aft rigid deflector attachment to the draghead (hinged or trunnion).
 - f. _____ The forward deflector attachment link length described for the project dredging depths and project approach angles.

COMMENTS

(Permittee Signature)

(Date)

(Name and Title - Printed)

(Dredging Contractor Signature)

(Date)

(Name and Title - Printed)

Hopper dredging shall not commence until this submittal is approved and signed by the Corps:

(District Engineer)

(Date)

Sea Turtle Trawling Requirements - Non-Capture

- a. To reduce the chances of sea turtles becoming entangled and caught in the net webbing during non-capture trawl sweeping, use standard flat-style shrimp trawling nets. Nets shall have one to two-inch webbing holes, the webbing should be made of nylon material (preferably dipped.)
- b. The bag end of these nets shall be completely cut out so that the nets remaining on the rigging are approximately 30 to 50-feet long. The nets shall be long enough to provide a trailing length of net in the water to "stimulate turtles" to move but not be long enough to be able to twist when: 1) being pulled in the water; 2) being pulled up and onto the deck; 3) the vessel is stationary; or 4) the trawl vessel turns while trawling. This net length may be shorter or longer depending on the specific configurations of the trawler and its rigging, but must be set up to specifically prevent the twisting of the net. The nets should be installed and adjusted such that organisms are not being collected (turtles and other by-catch).
- c. The bag end of the nets shall be cut away to create a large open end in the nets. The webbing shall be monitored so that tears and rips do not occur in the remaining webbing that might entangle and capture organisms (particularly turtles).
- d. To ensure that the lead line and mouth of the trawl nets maintain contact with the seafloor as best as possible, the lead line of each net shall be rigged with weights, mud rollers, tickler chains and/or trawling cookies (as appropriate for the environmental conditions and sediment type).
- e. For the first 48 hours after beginning non-capture trawling operations, pull and check the nets every hour to evaluate and document the:
 - Status of the nets (particularly twisting of the tail end)
 - Net contents (turtles and other bycatch)

After the first 48-hours and appropriate net configuration has been established, gradually increase trawling times to a maximum of 2-3-hours.