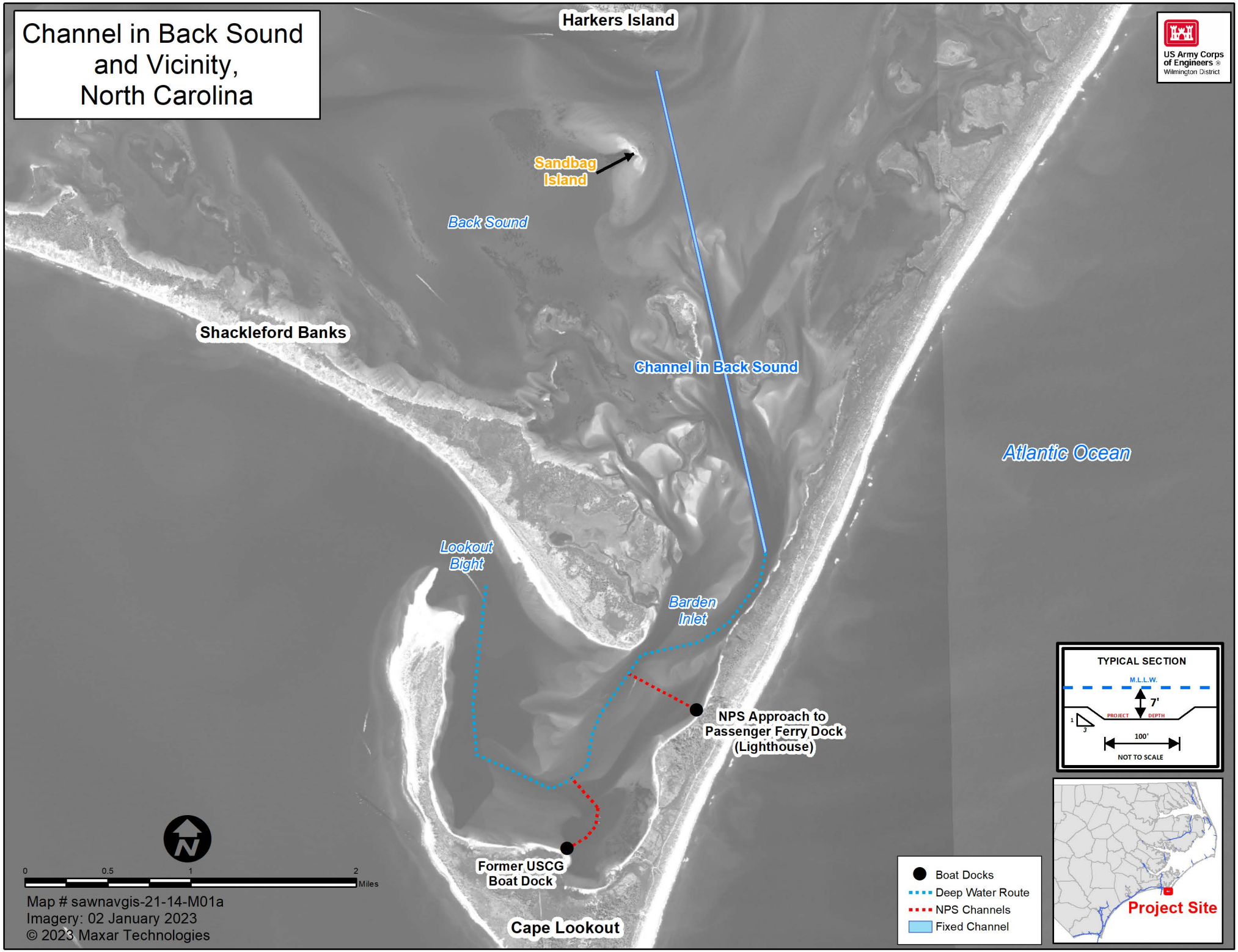
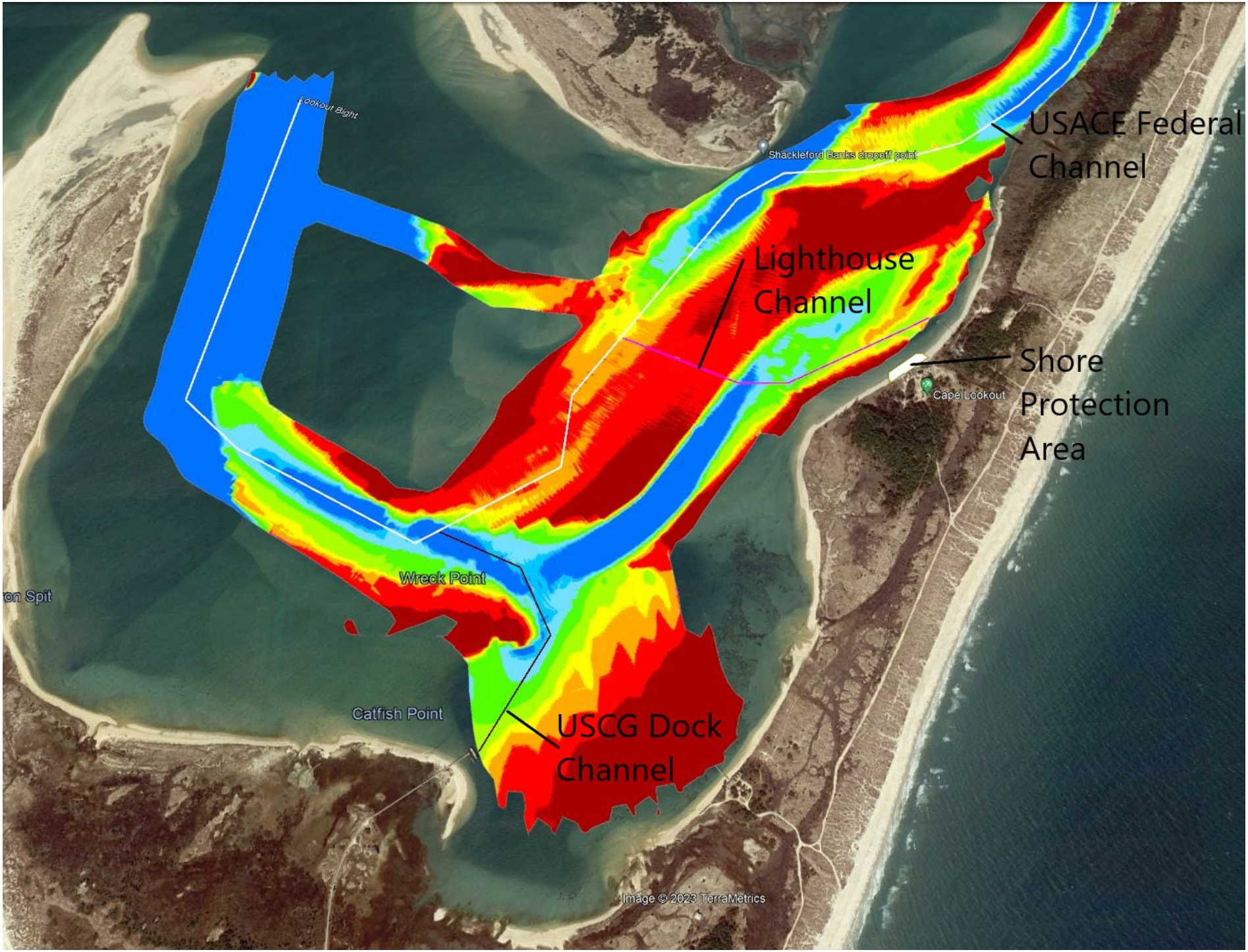
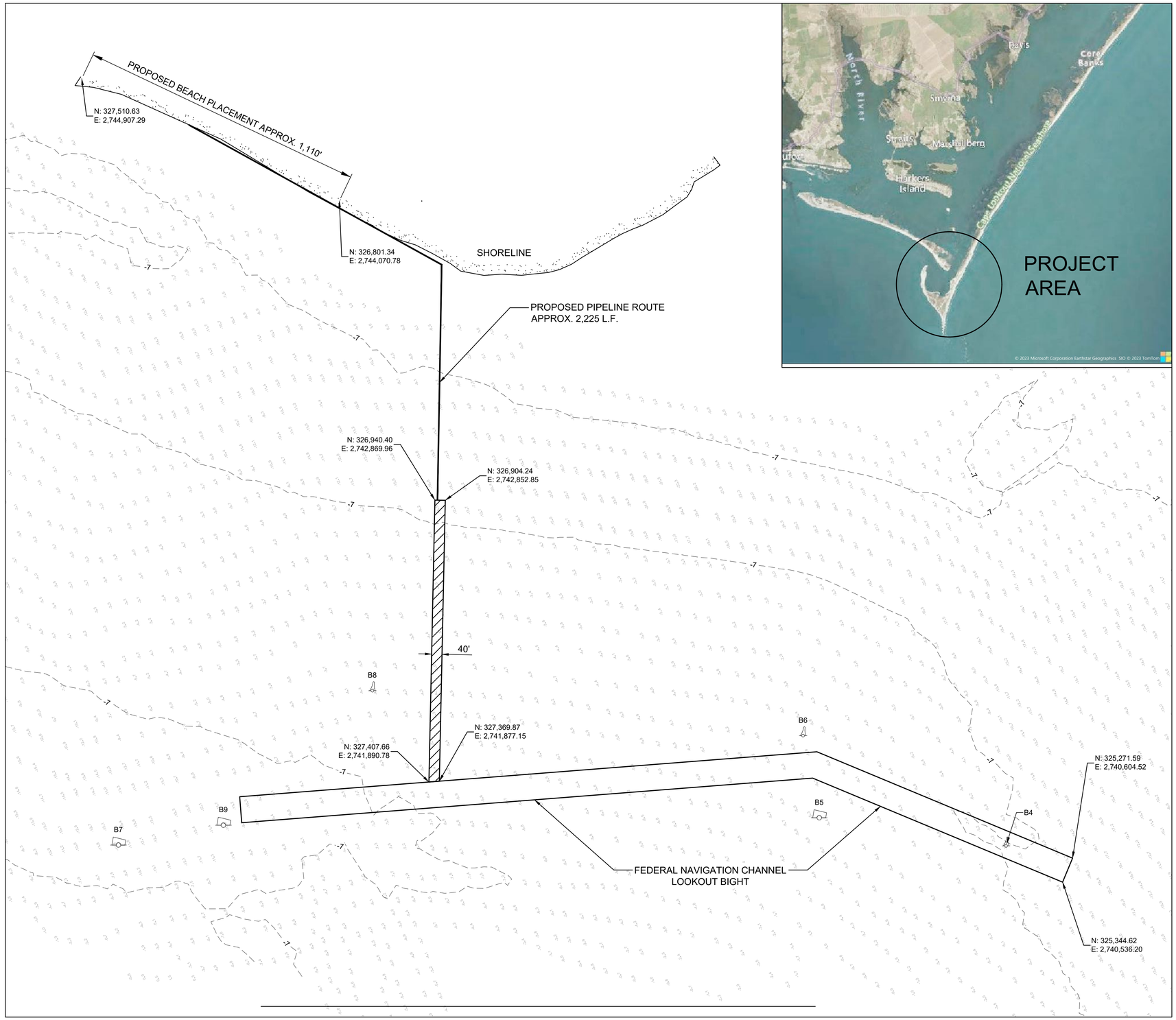

Channel in Back Sound and Vicinity, North Carolina
US Army Corps of Engineers
Wilmington District
Harkers Island
Sandbag Island
Back Sound
Shackleford Banks
Channel in Back Sound
Atlantic Ocean
Lookout Bight
Barden Inlet
NPS Approach to Passenger Ferry Dock (Lighthouse)
Former USCG Boat Dock
Cape Lookout
TYPICAL SECTION
M.L.L.W.
7'
PROJECT DEPTH
1
3
100'
NOT TO SCALE
Boat Docks
Deep Water Route
NPS Channels
Fixed Channel
Project Site
0
0.5
1
2
Miles
Map # sawnavgis-21-14-M01a
Imagery: 02 January 2023
© 2023 Maxar Technologies


USACE Federal Channel
Lighthouse Channel
Shore Protection Area
USCG Dock Channel
Lookout Bight
Shackleford Banks dropoff point
Cape Lookout
Wreck Point
Catfish Point
Image © 2023 TerraMetrics



GENERAL SHEET NOTES:

1. HORIZONTAL DATUM NAD83. VERTICAL DATUM M.L.L.W.
2. SOUNDINGS ARE EXPRESSED IN FEET AND REFER TO NOAA'S REPORTED MEAN LOWER LOW WATER (MLLW) RELATIVE TO THE 1983-2001 TIDAL EPOCH.
3. PROJECT SURVEYED 14 SEPTEMBER 2022 WITH DISTRICT SURVEY VESSEL "ROGERS". USING RTK GPS HORIZONTAL GLOBAL POSITIONING EQUIPMENT AND 200 KHZ SOUNDING EQUIPMENT.
4. TIDE GAGE LOCATED AT: US PARK SERVICE DOCK.
5. THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.
6. NAVIGATION AIDS LOCATED WITH DISTRICT SURVEY VESSEL, ACCURACY +/- 3 METERS. EASTING AND NORTHING COORDINATES ARE IN FEET.

DESCRIPTION	EASTING	NORTHING
B4	2,740,752.97	325,485.31
B6	2,741,460.77	326,022.31
B8	2,742,300.60	327,461.80
B3	2,739,835.28	325,557.10
B5	2,741,147.17	326,095.77
B9	2,742,064.54	328,196.57
B7	2,742,161.26	328,596.03
B2	2,739,277.10	325,266.03

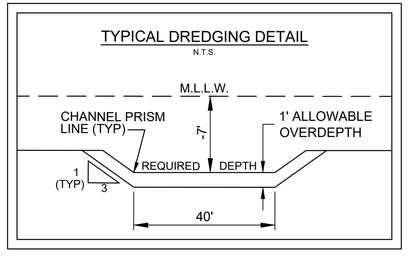
7. THE GOVERNMENT FURNISHED PLACEMENT AREA FOR DREDGED MATERIAL WILL BE ON "LIGHTHOUSE BEACH".

LEGEND

- AREA TO BE DREDGED
- -7.0 SOUNDING
- NAVIGATION AIDS
- ABANDONED NAVIGATION AID SINKER AND CHAIN
- -7 CONTOUR
- BORING LOCATION

TYPICAL DREDGING DETAIL

N.T.S.



US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: USACE
DRAWN BY: T. KNIGHT
CHECKED BY: S. GAGER
SUBMITTED BY:
NPS
SIZE ANSI D
FILE NAME: NPS_Dredging_Sheet.dwg

U.S. ARMY CORPS OF ENGINEERS
WILMINGTON DISTRICT
69 DARLINGTON AVENUE
WILMINGTON, NORTH CAROLINA 28403

MAINTENANCE DREDGING
CHANNEL TO BACK SOUND & LOOKOUT BIGHT
CARTERET COUNTY, NORTH CAROLINA

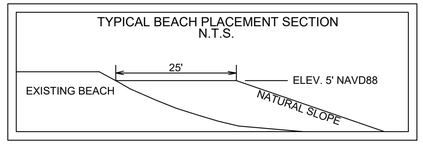
NATIONAL PARK SERVICE CHANNEL
LIGHTHOUSE
DREDGING LAYOUT

SHEET ID

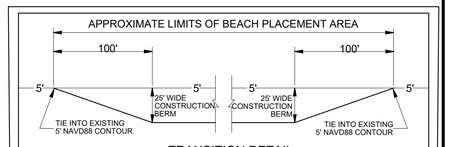
1 of 4

STATUS: 100%

TYPICAL BEACH PLACEMENT SECTION
N.T.S.



APPROXIMATE LIMITS OF BEACH PLACEMENT AREA



TRANSITION DETAIL
N.T.S.

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

U.S. ARMY CORPS OF ENGINEERS
WILMINGTON DISTRICT
69 DARLINGTON AVENUE
WILMINGTON, NORTH CAROLINA 28403

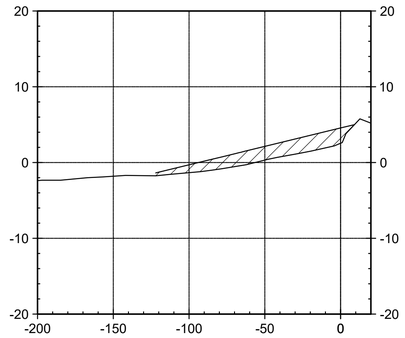
DESIGNED BY: USACE
DRAWN BY: ##########
CHECKED BY: S. GAGER
SUBMITTED BY:
NTS
SIZE: ANSI D
FILE NAME: NPS_LIGHTHOUSE_BEACH_Sheets.dwg

MAINTENANCE DREDGING
CHANNEL TO BACK SOUND & LOOKOUT BIGHT
CARTERET COUNTY, NORTH CAROLINA

PROPOSED BEACH PLACEMENT
CAPE LOOKOUT
PLAN VIEW

SHEET ID
2 of 4

STATUS: 100% DQC



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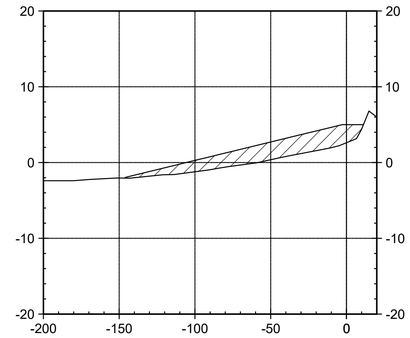

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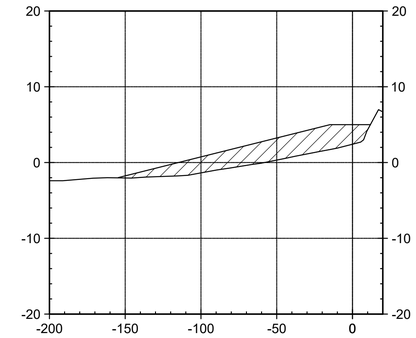

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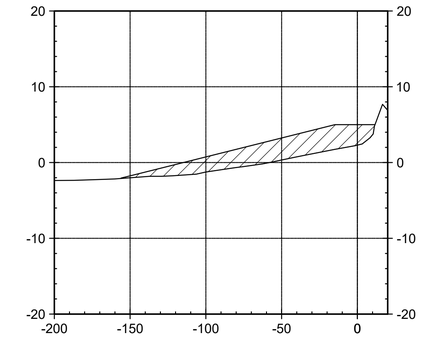

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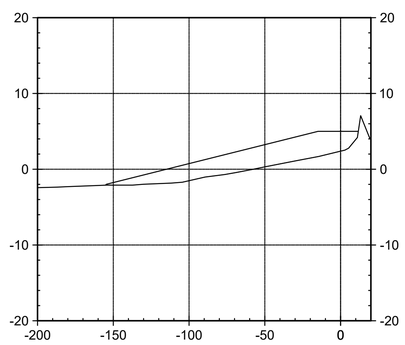

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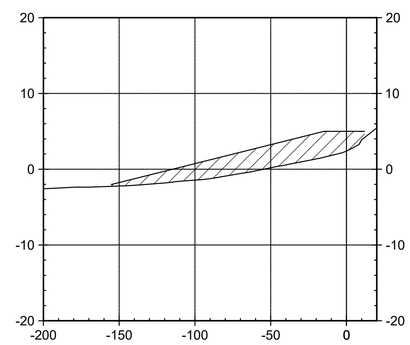

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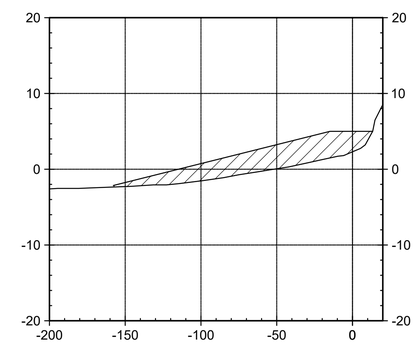

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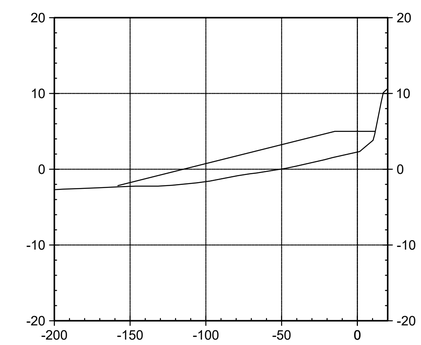

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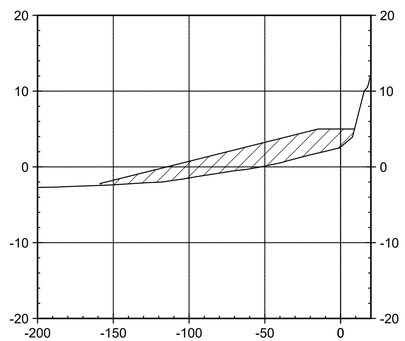

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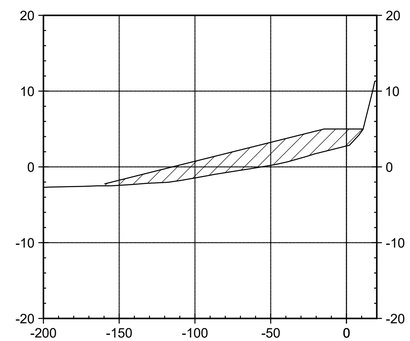

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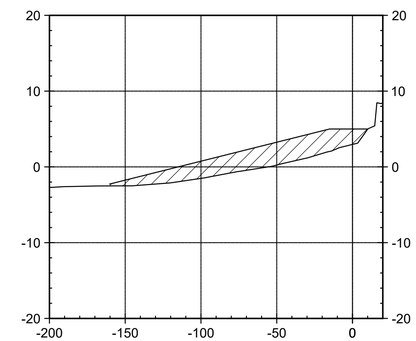

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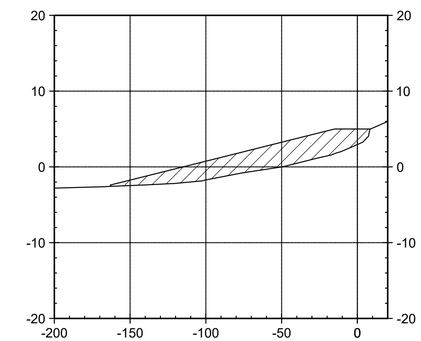


5+50

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

U.S. ARMY CORPS OF ENGINEERS
WILMINGTON DISTRICT
69 DARLINGTON AVENUE
WILMINGTON, NORTH CAROLINA 28403

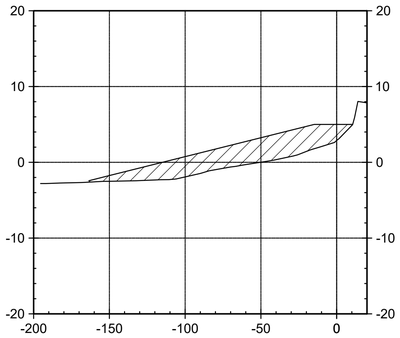
DESIGNED BY: USACE
DRAWN BY: T. KNIGHT
CHECKED BY: B. BAGER
SUBMITTED BY:
NPS
SIZE ANSI D
FILE NAME: NPS_LIGHTHOUSE_BEACH_Sheets.dwg

MAINTENANCE DREDGING
CHANNEL TO BACK SOUND & LOOKOUT BIGHT
CARTERET COUNTY, NORTH CAROLINA

PROPOSED BEACH PLACEMENT
CAPE LOOKOUT
CROSS SECTIONS

SHEET ID
3 of 4

STATUS: 100% DQC



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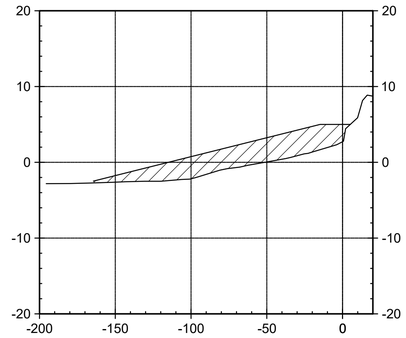

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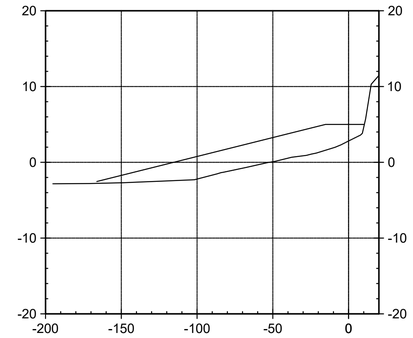

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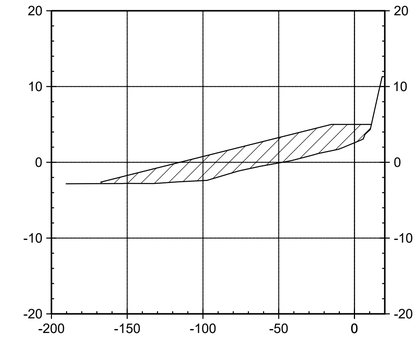

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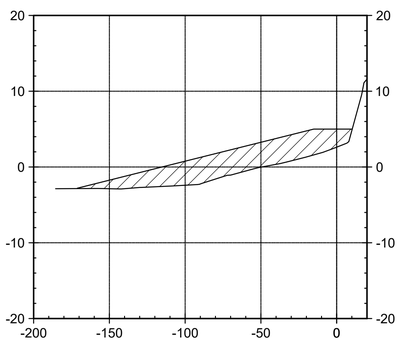

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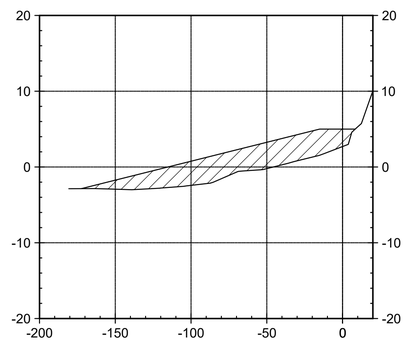

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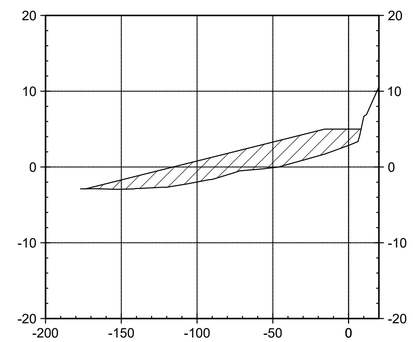

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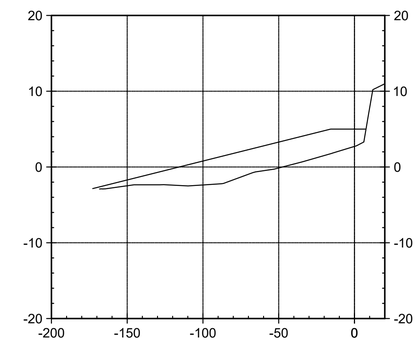

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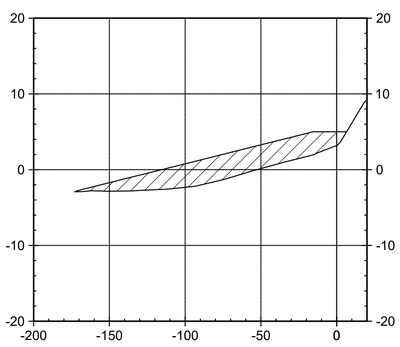

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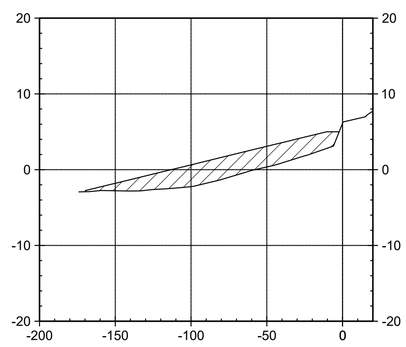

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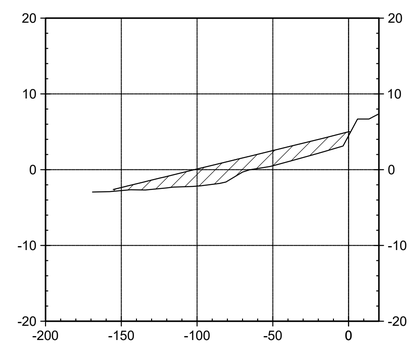

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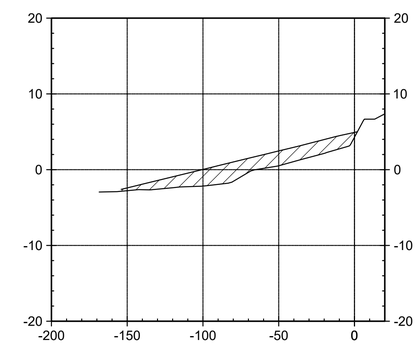

11+04.51

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

U.S. ARMY CORPS OF ENGINEERS
WILMINGTON DISTRICT
69 DARLINGTON AVENUE
WILMINGTON, NORTH CAROLINA 28403

DESIGNED BY: USACE
DRAWN BY: T. KNIGHT
CHECKED BY: S. GAGER
SUBMITTED BY:
NPS
SIZE ANSI D
FILE NAME: NPS_LIGHTHOUSE_BEACH_Sheets.dwg

MAINTENANCE DREDGING
CHANNEL TO BACK SOUND & LOOKOUT BIGHT
CARTERET COUNTY, NORTH CAROLINA

PROPOSED BEACH PLACEMENT
CAPE LOOKOUT
CROSS SECTION

SHEET ID

4 of 4

STATUS: 100% DQC

Table of Project Listed ESA Species and Critical Habitat

USFWS Listed Species	**Status (T/E)**	**Present in the Project Area?**	**Determination**
Green sea turtle (*Chelonia mydas*)	T	Yes	MALAA
Loggerhead sea turtle (*Caretta caretta*)	T	Yes	MALAA
Leatherback sea turtle (*Dermochelys coriacea*)	E	Rare	MALAA
Kemp's ridley sea turtle (*Lepidochelys kempii*)	E	Yes	MALAA
Red knot (*Calidris canutus rufa*)	T	Yes	MALAA
Piping plover (*Charadrius melodus*); Critical Habitat	T	Yes	MALAA
Eastern Black Rail (*Laterallus jamaicensis*)	T	No	NA
Roseate tern (*Sterna dougallii dougallii*)	E	No	NA
Red-cockaded Woodpecker *(Picoides borealis)*	E	No	NA
West Indian manatee (*Trichechus manatus*)	T	Rare	MANLAA
Rough-leaved Loosestrife *(Lysimachia asperilaefolia)*	E	No	NA
Seabeach amaranth (*Amaranthus pumilus*)	T	Yes	MALAA
NMFS Listed Species	**Status (T/E)**	**Present in the Project Area?**	**Determination**
Green sea turtle (*Chelonia mydas*)	T	Yes	May Affect
Loggerhead sea turtle (*Caretta caretta*)	T	Yes	May Affect
Leatherback sea turtle (*Dermochelys coriacea*)	E	Rare	May Affect
Kemp's ridley sea turtle (*Lepidochelys kempii*)	E	Yes	May Affect
North Atlantic right whale (*Eubalaena glacialis*)	E	No	No Affect
Shortnose sturgeon (*Acipenser brevirostrum*)	E	Rare	May Affect
Atlantic sturgeon (*Acipenser oxyrinchus oxyrinchus*)	E	Yes	May Affect
Giant manta ray (*Manta birostris*)	T	Yes	May Affect

Smalltooth sawfish (*Pistis pectinata*)	E	Rare	May Affect

Dredging and placement activities will operate under the USFWS 2017 NC State Programmatic Biological Opinion for material placement from the NPS boat dock channels and will comply with the 2020 South Atlantic Regional Biological Opinion PDCs associated with maintenance dredging and placement using cutter-section and special purpose hopper dredges (referred to as modified hopper dredging in the 2020 SARBO) https://www.fisheries.noaa.gov/content/endangered-species-act-section-7-biological-opinions-southeast.