
APPENDIX H

Greater Atlantic Regional Fisheries Office Endangered
Species Act Section 7: NLAA Program Verification



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

REPLY TO
ATTENTION OF:

July 19, 2021

Operations Branch

Mark Murray-Brown
Protected Resources Division
National Marine Fisheries Service – Northeast Regional Office
55 Great Republic Drive
Gloucester, Massachusetts 01930-2276

Dear Mr. Murray-Brown:

On behalf of Joint Base Langley Eustis – Fort Eustis (JBLE-Eustis), I am requesting verification under the USACE NLAA Program for the Third Port Improvements Project, located at JBLE-Eustis in Skiffes Creek, Newport News, Virginia. This project includes improvements to the Third Port in anticipation of the assignment of a new class of vessel to the port, as well as improvements designed to aid the entire fleet in the training and logistics missions of the port. A full description of the work and drawings are included in this package.

In accordance with the NLAA Program, the USACE, Norfolk District has determined that the action is not likely to adversely affect listed species per the justifications provided.

Should you have any questions or require further information on this submittal, please contact Dr. Megan Wood of my staff at megan.a.wood@usace.army.mil or 757-201-7843. Thank you for your assistance.

Sincerely,

Date: 2021.07.19
15:37:51 -04'00'

Lesley Dobbins-Noble
Chief, Operations Branch

Enclosures:
GARFO ESA Section 7: NLAA Program Verification Form
Appendix A: Project Description and Purpose
Drawings

**NOAA FISHERIES**

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

Greater Atlantic Region**US Army Corps
of Engineers®****GARFO ESA Section 7: NLAA Program Verification Form**

(Please submit a signed version of this form, together with any project plans, maps, supporting analyses, etc., to nmfs.gar.esa.section7@noaa.gov with "USACE NLAA Program: [Application Number]" in the subject line)

Section 1: General Project Details

Application Number:			
Reinitiation:			
Applicant(s):			
Permit Type:			
Anticipated project start date (e.g., 10/1/2020)			
Anticipated project end date (e.g., 12/31/2022 – if there is no permit expiration date, write "N/A")			
Project Type/Category (check all that apply to entire action):			
<input type="checkbox"/>	Aquaculture (shellfish) and artificial reef creation	<input type="checkbox"/>	Mitigation (fish/wildlife enhancement or restoration)
<input type="checkbox"/>	Dredging and disposal/beach nourishment	<input type="checkbox"/>	Bank stabilization
<input type="checkbox"/>	Piers, ramps, floats, and other structures	<input type="checkbox"/>	If other, describe project type category: <div></div>
Town/City:		Zip:	
State:		Water body:	

Project/Action Description and Purpose (include relevant permit conditions that are not captured elsewhere on form):		
Type of Bottom Habitat Modified:	Permanent/Temporary:	Area (acres):
Project Latitude (e.g., 42.625884)		
Project Longitude (e.g., -70.646114)		
Mean Low Water (MLW)(m)		
Mean High Water (MHW)(m)		
Width (m) of water body in action area:	Stressor Category (stressor that extends furthest distance into water body – e.g., turbidity plume; sound pressure wave):	Max extent (m) of stressor into the water body:

Section 2: ESA-listed species and/or critical habitat in the action area:

<input type="checkbox"/>	Atlantic sturgeon (all DPSs)	<input type="checkbox"/>	Kemp's ridley sea turtle
<input type="checkbox"/>	Atlantic sturgeon critical habitat Indicate which DPS : <div style="background-color: #cccccc; height: 20px; width: 100%;"></div>	<input type="checkbox"/>	Loggerhead sea turtle (NW Atlantic DPS)
<input type="checkbox"/>	Shortnose sturgeon	<input type="checkbox"/>	Leatherback sea turtle
<input type="checkbox"/>	Atlantic salmon (GOM DPS)	<input type="checkbox"/>	North Atlantic right whale
<input type="checkbox"/>	Atlantic salmon critical habitat (GOM DPS)	<input type="checkbox"/>	North Atlantic right whale critical habitat
<input type="checkbox"/>	Green sea turtle (N. Atlantic DPS)	<input type="checkbox"/>	Fin whale

* Please consult GARFO PRD's ESA Section 7 Mapper for ESA-listed species and critical habitat information for your action area at: <https://www.fisheries.noaa.gov/new-england-mid-atlantic/consultations/section-7-species-critical-habitat-information-maps-greater>.

Section 3: NLAA Determination (check all applicable fields):

If the Project Design Criteria (PDC) is met, select Yes. If the PDC is not applicable (N/A) for your project (e.g., the stressor category is not included for your project activity, or for PDC 2, your project does not occur within the range of the GOM DPS of Atlantic salmon), select N/A. If the PDC is applicable, but is not met, leave both boxes blank and provide a justification for that PDC in Section 4.

a) GENERAL PDC			
Yes	N/A	PDC #	PDC Description
<input type="checkbox"/>	<input type="checkbox"/>	1.	No portion of the proposed action will individually or cumulatively have an adverse effect on ESA-listed species or designated critical habitat.
<input type="checkbox"/>	<input type="checkbox"/>	2.	No portion of the proposed action will occur in the tidally influenced portion of rivers/streams where Atlantic salmon presence is possible from April 10–November 7. Note: If the project will occur within the geographic range of the GOM DPS Atlantic salmon but their presence is not expected following the best available commercial scientific data, the work window does not need to be applied (include reference in project description).
<input type="checkbox"/>	<input type="checkbox"/>	3.	No portion of the proposed action that may affect shortnose or Atlantic sturgeon will occur in areas identified as spawning grounds as follows: i. Gulf of Maine: April 1–Aug. 31 ii. Southern New England/New York Bight: Mar. 15–Aug. 31 iii. Chesapeake Bay: March 15–July 1 and Sept. 15–Nov. 1 Note: If river specific information exists that provides better or more refined time of year information, those dates may be substituted with NMFS approval (include reference in project description).
<input type="checkbox"/>	<input type="checkbox"/>	4.	No portion of the proposed action that may affect shortnose or Atlantic sturgeon will occur in areas identified as overwintering grounds, where dense aggregations are known to occur, as follows: i. Gulf of Maine: Oct. 15–April 30 ii. Southern New England/ New York Bight: Nov. 1–Mar. 15 iii. Chesapeake Bay: Nov. 1–Mar. 15 Note: If river specific information exists that provides better or more refined time of year information, those dates may be substituted with NMFS approval (include reference in project description).
<input type="checkbox"/>	<input type="checkbox"/>	5.	Within designated Atlantic salmon critical habitat, no portion of the proposed action will affect spawning and rearing areas (PBFs 1-7).
<input type="checkbox"/>	<input type="checkbox"/>	6.	Within designated Atlantic sturgeon critical habitat, no work will affect hard bottom substrate (e.g., rock, cobble, gravel, limestone, boulder, etc.) in low salinity waters (i.e., 0.0-0.5 parts per thousand) (PBF 1).

Yes	N/A	PDC #	PDC Description
<input type="checkbox"/>	<input type="checkbox"/>	7.	Work will result in no or only temporary/short-term changes in water temperature, water flow, salinity, or dissolved oxygen levels.
<input type="checkbox"/>	<input type="checkbox"/>	8.	If ESA-listed species are (a) likely to pass through the action area at the time of year when project activities occur; and/or (b) the project will create an obstruction to passage when in-water work is completed, then a zone of passage (~50% of water body) with appropriate habitat for ESA-listed species (e.g., depth, water velocity, etc.) must be maintained (i.e., physical or biological stressors such as turbidity and sound pressure must not create barrier to passage).
<input type="checkbox"/>	<input type="checkbox"/>	9.	Any work in designated North Atlantic right whale critical habitat must have no effect on the physical and biological features (PBFs).
<input type="checkbox"/>	<input type="checkbox"/>	10.	The project will not adversely impact any submerged aquatic vegetation (SAV).
<input type="checkbox"/>	<input type="checkbox"/>	11.	No blasting or use of explosives will occur.

b) The following stressors are applicable to the action
(check all that apply – use Stressor Category Table for guidance):

<input type="checkbox"/>	Sound Pressure
<input type="checkbox"/>	Impingement/Entrapment/Capture
<input type="checkbox"/>	Turbidity/Water Quality
<input type="checkbox"/>	Entanglement (Aquaculture)
<input type="checkbox"/>	Habitat Modification
<input type="checkbox"/>	Vessel Traffic

Activity Category	Stressor Category					
	Sound Pressure	Impingement/Entrapment/Capture	Turbidity/Water Quality	Entanglement	Habitat Mod.	Vessel Traffic
Aquaculture (shellfish) and artificial reef creation	N	N	Y	Y	Y	Y
Dredging and disposal/beach nourishment	N	Y	Y	N	Y	Y

Activity Category	Stressor Category					
	Sound Pressure	Impingement/ Entrapment/ Capture	Turbidity/ Water Quality	Entanglement	Habitat Mod.	Vessel Traffic
Piers, ramps, floats, and other structures	Y	N	Y	N	Y	Y
Transportation and development (e.g., culvert construction, bridge repair)	Y	N	Y	N	Y	Y
Mitigation (fish/wildlife enhancement or restoration)	N	N	Y	N	Y	Y
Bank stabilization and dam maintenance	Y	N	Y	N	Y	Y

c) SOUND PRESSURE PDC

Information for Pile Driving:

If your project includes non-timber piles*, please attach your calculation to this verification form showing that the noise is below the injury thresholds of ESA-listed species in the action area. The GARFO Acoustic Tool is available as one source, should you not have other information:

<https://www.fisheries.noaa.gov/new-england-mid-atlantic/consultations/section-7-consultation-technical-guidance-greater-atlantic>

*Sound pressure effects from timber and steel sheet piles were analyzed in the NLAA programmatic consultation, so no additional acoustic information is necessary.

	Pile material	Pile diameter/width (inches)	Number of piles	Installation method
a)				
b)				
c)				
d)				

See Appendix A for concrete sheet (d) information.

Yes	N/A	PDC #	PDC Description
<input type="checkbox"/>	<input type="checkbox"/>	12.	<p>If pile driving is occurring during a time of year when ESA-listed species may be present, and the anticipated noise is above the behavioral noise threshold, a “soft start” is required to allow animals an opportunity to leave the project vicinity before sound pressure levels increase. <i>In addition to using a soft start at the beginning of the work day for pile driving, one must also be used at any time following cessation of pile driving for a period of 30 minutes or longer.</i></p> <p><u>For impact pile driving:</u> pile driving will commence with an initial set of three strikes by the hammer at 40% energy, followed by a one minute wait period, then two subsequent 3-strike sets at 40% energy, with one-minute waiting periods, before initiating continuous impact driving.</p> <p><u>For vibratory pile installation:</u> pile driving will be initiated for 15 seconds at reduced energy followed by a one-minute waiting period. This sequence of 15 seconds of reduced energy driving, one-minute waiting period will be repeated two additional times, followed immediately by pile-driving at full rate and energy.</p>
<input type="checkbox"/>	<input type="checkbox"/>	13.	Any new pile supported structure must involve the installation of ≤ 50 piles (below MHW).
<input type="checkbox"/>	<input type="checkbox"/>	14.	All underwater noise (pressure) is below ($<$) the physiological/injury noise threshold for ESA-species in the action area.

d) IMPINGEMENT/ENTRAINMENT/CAPTURE PDC

Information for Dredging/Disposal:

Type of dredge:			
Maintenance dredging?:		If “Yes”, how many acres?	
If maintenance, when was the last dredge cycle?			
New dredging:		If “Yes”, how many acres?	
Estimated number of dredging events covered by permit:			
ESA-species exclusion measures required (e.g., cofferdam, turbidity curtain):			
If no exclusion measures required, explain why:			
Information for Intake Structures:			
Mesh screen size (mm) for temporary intake:			

Yes	N/A	PDC #	PDC Description
<input type="checkbox"/>	<input type="checkbox"/>	15.	Only mechanical, cutterhead, and low volume hopper (e.g., CURRITUCK, ~300 cubic yard maximum bin capacity) dredges may be used.
<input type="checkbox"/>	<input type="checkbox"/>	16.	No new dredging in Atlantic sturgeon or Atlantic salmon critical habitat (maintenance dredging still must meet all other PDCs). New dredging outside Atlantic sturgeon or salmon critical habitat is limited to one time dredge events (e.g., burying a utility line) and minor (≤ 2 acres) expansions of areas already subject to maintenance dredging (e.g., marina/harbor expansion).
<input type="checkbox"/>	<input type="checkbox"/>	17.	Work behind cofferdams, turbidity curtains, or other methods to block access of animals to dredge footprint is required when operationally feasible or beneficial and ESA-listed species are likely to be present (if presence is limited to rare, transient individuals, exclusion methods are not necessary).
<input type="checkbox"/>	<input type="checkbox"/>	18.	Temporary intakes related to construction must be equipped with appropriate sized mesh screening (as determined by GARFO section 7 biologist and/or according to Chapter 11 of the NOAA Fisheries Anadromous Salmonid Passage Facility Design) and must not have greater than 0.5 fps intake velocities, to prevent impingement or entrainment of any ESA-listed species life stage.
<input type="checkbox"/>	<input type="checkbox"/>	19.	No new permanent intake structures related to cooling water, or any other inflow at facilities (e.g. water treatment plants, power plants, etc.).

e) TURBIDITY/WATER QUALITY PDC

Information for Turbidity Producing Activity (excluding disposal):

ESA-species turbidity control measures required (e.g., turbidity curtain):

If no turbidity control measures required, explain why:

Information for Dredged Material Disposal:

Disposal site:

Estimated number of trips to disposal site:

Relevant disposal site permit/special conditions required (NAE: for offshore disposal, include Group A, B, C, or relevant Long Island Sound consultation):

Yes	N/A	PDC #	PDC Description
<input type="checkbox"/>	<input type="checkbox"/>	20.	Work behind cofferdams, turbidity curtains, or other methods to control turbidity is required when operationally feasible or beneficial and ESA-listed species are likely to be present (if presence is limited to rare, transient individuals, turbidity control methods are not necessary).
<input type="checkbox"/>	<input type="checkbox"/>	21.	In-water offshore disposal may only occur at designated disposal sites that have been the subject of ESA section 7 consultation with NMFS, where a valid consultation is in place and appropriate permit/special conditions are included.

Yes	N/A	PDC #	PDC Description
<input type="checkbox"/>	<input type="checkbox"/>	22.	Any temporary discharges must meet state water quality standards (e.g., no discharges of substances in concentrations that may cause acute or chronic adverse reactions, as defined by EPA water quality standards criteria).
<input type="checkbox"/>	<input type="checkbox"/>	23.	Only repair, upgrades, relocations and improvements of existing discharge pipes or replacement in-kind are allowed; no new construction of untreated discharges.
f) ENTANGLEMENT PDC			
Information for Aquaculture Projects:			
Approximate distance from shore (MHW)(m):			
Grow season begins (approximate):			
Grow season ends (approximate):			
Total number of vertical lines:			
Total number of horizontal lines:			
Is any gear seasonally removed from the water? If yes, which parts and when?			
	Aquaculture Gear	Acreage (total permit footprint)	Type of Shellfish Cultivated
a)			
b)			
c)			
Yes	N/A	PDC #	PDC Description
<input type="checkbox"/>	<input type="checkbox"/>	24.	Shell on bottom <50 acres with maximum of 4 corner marker buoys;
<input type="checkbox"/>	<input type="checkbox"/>	25.	Cage on bottom with no loose floating lines <5 acres and minimal vertical lines (1 per string of cages, 4 corner marker buoys);
<input type="checkbox"/>	<input type="checkbox"/>	26.	Floating cages in <3 acres in waters and shallower than -10 feet MLLW with no loose lines and minimal vertical lines (1 per string of cages, 4 corner marker buoys);
<input type="checkbox"/>	<input type="checkbox"/>	27.	Floating upweller docks in >10 feet MLLW.
<input type="checkbox"/>	<input type="checkbox"/>	28.	Any in-water lines, ropes, or chains must be made of materials and installed in a manner to minimize or avoid the risk of entanglement by using thick, heavy, and taut lines that do not loop or entangle. Lines can be enclosed in a rigid sleeve.
g) HABITAT MODIFICATION PDC			
Yes	N/A	PDC #	PDC Description
<input type="checkbox"/>	<input type="checkbox"/>	29.	No conversion of habitat type (soft bottom to hard, or vice versa) for aquaculture or reef creation.

h) VESSEL TRAFFIC PDC			
Information for Vessel Traffic:			
	Temporary Project Vessel Type		Number of Vessels
a)			
b)			
c)			
	Type of Non-Commercial or Aquaculture Vessels Added – only include if there is a net increase directly/indirectly resulting from project)		Number of Vessels (if sum > 2, PDC 33 is not met and justification required in Section 4)
a)			
b)			
	Type of Commercial Vessels Added (only include if there is a net increase directly/indirectly resulting from project)		Number of Vessels (if > 0, PDC 33 is not met and justification required in Section 4)
a)			
b)			
If no temporary/permanent vessel traffic, briefly explain (e.g., all land-based work, no net increase in vessel traffic)			
Yes	N/A	PDC #	PDC Description
<input type="checkbox"/>	<input type="checkbox"/>	30.	Maintain project vessels operating within the action area to speed limits below 10 knots and dredge vessel speeds of 4 knots maximum, while dredging.
<input type="checkbox"/>	<input type="checkbox"/>	31.	Maintain a 1,500-foot buffer between project vessels and ESA-listed whales and a 150-foot buffer between project vessels and sea turtles unless the vessel is navigating to an in-water disposal site/activity. If the vessel is navigating to an in-water disposal site/activity, refer to and include the conditions contained in the appropriate GARFO-USACE/EPA consultation for the disposal site.
<input type="checkbox"/>	<input type="checkbox"/>	32.	The number of project vessels must be limited to the greatest extent possible, as appropriate to size and scale of project.
<input type="checkbox"/>	<input type="checkbox"/>	33.	The permanent net increase in vessels resulting from a project (e.g., dock/float/pier/boating facility) must not exceed two non-commercial vessels. A project must not result in the permanent net increase of any commercial vessels (e.g., a ferry terminal).

Section 4: Justification for Review under the NLAA Program

If the action is not in compliance with all of the General PDC and appropriate stressor PDC, but you can provide justification and/or special conditions to demonstrate why the project still meets the NLAA determination and is consistent with the aggregate effects considered in the programmatic consultation, you may still certify your project through the NLAA program using


this verification form. Please identify which PDC your project does not meet (e.g., PDC 9, PDC 15, PDC 22, etc.) and provide your rationale and justification for why the project is still eligible for the verification form.

To demonstrate that the project is still NLAA, you must explain why the effects on ESA-listed species or critical habitat are **insignificant** (i.e., too small to be meaningfully measured or detected) or **discountable** (i.e., extremely unlikely to occur). **Please use this language in your justification.**


PDC#	Justification

16	<p>The total anticipated area of new work dredging is approximately 3.9 acres, and the anticipated area of maintenance dredging is approximately 0.25 acre. All new work and maintenance dredging is outside of critical habitat for Atlantic sturgeon and will be accomplished by either cutterhead or mechanical dredges. The area is a critical military training and port facility. The types of dredges used pose little risk to juvenile, subadult, and adult Atlantic sturgeon. Skiffes Creek is primarily a foraging grounds for juvenile, subadult, and adult Atlantic sturgeon. Anticipated impacts to prey species are expected to be temporary. Water quality impacts to sturgeon present in the dredging area will be temporary and minor due to the mobility of the species to avoid impacted areas and the relatively quick return of water quality to ambient conditions due to re-deposition of suspended sediments. Therefore, any effects to ESA-listed species of this action are insignificant and discountable.</p>
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Section 5: USACE Verification of Determination

<input type="checkbox"/>	In accordance with the NLAA Program, USACE has determined that the action complies with all applicable PDC and is not likely to adversely affect listed species.	
<input checked="" type="checkbox"/>	In accordance with the NLAA Program, the USACE has determined that the action is not likely to adversely affect listed species per the justification and/or special conditions provided in Section 4.	
USACE Signature:		Date:
		Date: 2021.08.09 13:10:08 -04'00' 08/09/2021

Section 6: GARFO Concurrence

<input type="checkbox"/>	In accordance with the NLAA Program, GARFO PRD concurs with USACE's determination that the action complies with all applicable PDC and is not likely to adversely affect listed species or critical habitat.	
<input checked="" type="checkbox"/>	In accordance with the NLAA Program, GARFO PRD concurs with USACE's determination that the action is not likely to adversely affect listed species or critical habitat per the justification and/or special conditions provided in Section 4.	
<input type="checkbox"/>	GARFO PRD does not concur with USACE's determination that the action complies with the applicable PDC (with or without justification), and recommends an individual Section 7 consultation to be completed independent from the NLAA Program.	
GARFO Signature:		Date:
		8/10/2021

Third Port Improvements Project NAO-2020-00611

Appendix A: Project Purpose and Description

The Third Port Improvements Project will take place at the Third Port located on Joint Base Langley-Eustis – Fort Eustis (JBLE-Eustis) in Skiffes Creek, a tributary of the James River, in Newport News, Virginia. The purpose of the project is to prepare JBLE-Eustis for up to 10 new vessels that will be assigned to the Third Port in the near future. This new class of vessels will berth along the finger piers; however, the new vessels are longer (117 feet in length) than vessels in the existing fleet that berth in the finger pier area and require improvements to berthing areas and access to the turning basin. Additionally, other improvements will be executed to increase the useable waterway for the vessel fleet, including the new vessels, and to aid in training for cargo logistics and vessel operations. The new vessels will replace older vessels in the fleet; there will be no net increase in the number of vessels in the fleet. All proposed work will be constructed from the water. The project involves multiple phases that may be constructed either consecutively or concurrently across multiple funding years depending on funding availability. See Figure 1 for the general location of project areas.



Figure 1. Project areas at the Third Port within Skiffes Creek: 1) finger piers; 2) mooring field; 3) landslip; and 4) general's ramp.

Finger Piers

The finger piers provide berthing for the current fleet of support vessels at the Third Port. They are currently constructed of timber decking on timber piles, and timber mooring dolphins are located along the piers for berthing. The condition and size of the existing piers is not adequate to accommodate the new class of vessels (117 feet in length) that will be berthed at the Third Port. Additionally, the existing dolphins lack a fendering system with rubber energy absorbers, which has resulted in damage both to the timber piles and to vessels. The need for the proposed action is to improve the finger piers to accommodate the new vessels. This is proposed to be accomplished by removing the timber piers and mooring dolphins and replacing them. See Table 1 for a summary of proposed construction elements.

Pier 8 is intended to be replaced with a concrete pile-supported concrete pier and would be extended from 93 feet to 132 feet in length relative to the existing bulkhead. The concrete pier would be supported by 41 concrete piles (20-inch square), which would be installed using impact hammering. Piers 9 – 14 would be replaced with five concrete mooring dolphin/gangway structures; one existing pier would be eliminated. Pier 9 would be extended from 93 feet to 122 feet in length relative to the existing bulkhead, and the remaining four piers would be extended from 53 feet to 122 feet in length relative to the existing bulkhead. For the five piers replacing Piers 9 – 14, 20 concrete piles (20-inch square) would be installed using impact hammering for each pier, totaling 100 piles.

The new vessels are stern-loading and require stable support for loading ramps. A stern ramp support platform is proposed to be constructed along the length of the bulkhead east of Pier 8 and would be approximately 542 feet in length. The concrete stern ramp would be supported by 55 concrete piles (20-inch square).

To reduce wave action in the berthing area that may damage berthed ships, a wave screen is proposed to be installed along the western side of Pier 8. The wave screen would be approximately 126 feet in length and would be constructed of concrete sheet piles (30 inches long x 12 inches wide) installed using impact hammering. Hydrodynamic modeling will determine the appropriate level of porosity of the wave screen.

Sediment accretion in the finger pier berthing area has reduced the operational depths in portions of the area. New work dredging will deepen the berthing area (approximately 1.9 acres of unvegetated subaqueous bottom) between the toe of the channel and the bulkhead that supports the finger piers from the existing mudline (varies from approximately -2 feet to -19 feet MLLW) to -17 feet MLLW (maximum allowable depth of -18 feet MLLW). Approximately 14,000 cubic yards of new work dredged material would be removed from the berthing area. Approximately 11,000 cubic yards of material will be removed during each future maintenance cycle. See Table 1 for a summary of proposed new work dredging elements.

Table 1. Construction elements for the finger pier area. Please note that the anticipated construction timeline and project phasing are subject to change based on funding availability.

Structures				
Construction Phase	Construction Element	Length (feet)	Pile number and type	Pile Size/Dimensions
Phase 1 (FY23)	Pier 8	132	41 concrete piles	20" square
	Pier 9	122	20 concrete piles	20" square
	Pier 10	122	20 concrete piles	20" square
	Wave Screen	126*	Concrete sheet	30" x 12"
	Stern Ramp	240	24 concrete piles	20" square
Phase 2 (FY24+)	Pier 11	122	20 concrete piles	20" square
	Pier 12	122	20 concrete piles	20" square
	Pier 13	122	20 concrete piles	20" square
	Stern Ramp	302	31 concrete piles	20" square
Dredging				
Construction Phase	Construction Element	Area (acres)	Volume (cubic yards)	Anticipated placement area
Phase 1 (FY23)	Dredging (Piers 8-10)	1.1	6,500	FEDMMA
Phase 2 (FY24+)	Dredging (Piers 11-13)	0.8	7,500	FEDMMA

*Hydrodynamic modeling will determine the appropriate level of porosity (i.e., number and spacing of gaps in the wave screen).

Mooring Field

The mooring field is located north of and across Skiffes Creek from the finger piers. The field is approximately 850 feet long and extends north from the James River into Skiffes Creek. Timber mooring dolphins, spaced approximately 50 feet apart, provide mooring for the modular causeway system (MCS). These dolphins lack appropriate fendering and have become damaged. Additionally, there is substantial accretion along the shoreline in the area which has resulted in the relocation of the MCS further into the navigable waterway. The need for the proposed action is to realign and deepen the mooring field to increase the useable waterway without impacting existing wetlands, to provide the new vessel class with adequate access to the turning basin, and to facilitate the use of the mooring dolphins. See Table 2 for a summary of proposed construction elements.

Existing timber piles are proposed to be replaced with 22 steel monopiles (36-inch diameter) spaced approximately 50 feet apart. Timber piles are proposed to be removed from the area of the existing mooring field alignment; piles located in the creek would be pulled from the sediment, while piles located above the tideline would be cut at ground level. The new mooring field would be approximately 950 linear feet long and would be located further upstream in Skiffes Creek than the existing mooring field. The proposed alignment will improve operations within the navigable waterway.

Additionally, the installation of either subaqueous riprap or subaqueous bulkhead (approximately 950 linear feet each) behind or between the monopiles would mitigate the potential for shoreline accretion in the area channelward of the moorings. Approximately 0.75 acre of unvegetated subaqueous bottom would be hardened due to the installation of riprap, while the bulkhead would harden approximately 0.05 acres of unvegetated subaqueous bottom. Installation of the riprap sill would require dredging in the footprint before mattresses and stone fill could be placed (see Table 2). The bulkhead would be installed using impact hammering.

Maintenance and new work dredging to re-establish operational depths for training and mission requirements would deepen the area (approximately 1.5 acres of unvegetated subaqueous bottom) between the toe of the channel and the mooring field from the existing mudline (varies from approximately -2 feet to -11 feet MLLW) to a depth of -11 feet MLLW (maximum allowable depth of -14 feet MLLW). Approximately 1,000 cubic yards of maintenance dredged material and 10,000 cubic yards of new work dredged material would be removed from the mooring field access area. Approximately 11,500 cubic yards of additional material would be removed once to construct the riprap sill. Future maintenance events will remove approximately 8,000 cubic yards of material from the access area during each maintenance cycle. See Table 2 for a summary of proposed maintenance and new work dredging elements.

Table 2. Construction elements for the mooring field area. Please note that the anticipated construction timeline and project phasing are subject to change based on funding availability.

Structures				
Construction Phase	Construction Element	Length (feet)	Pile number and type	Pile size
Phase 1 (FY23)	Mooring realignment	950	22 steel monopiles	36"
	Sill alternative 1: bulkhead	950	Steel sheet	24"
	Sill alternative 2: riprap	950 (variable width; typically 24 feet wide)		
Dredging				
Construction Phase	Construction Element	Area (acres)	Volume (cubic yards)	Anticipated placement area
Phase 1 (FY23)	Mooring realignment – maintenance*	0.25	1,000	
	Mooring realignment – new work*	1.25	10,000	FEDMMA
	Sill alternative 2: riprap	0.75	11,500	FEDMMA

*Dredging of the access area channelward of the mooring field, which will be dredged regardless of alternative chosen.

Landship

The landship is a stationary mock cargo vessel hull used for training Army personnel. The mock vessel sits on a concrete deck supported by concrete piles. Previously, the landship had mooring dolphins and catwalks along the channel side for training and access. Monopile dolphins with fendering and a steel pile-supported gangway will be installed along the landship. To support the gangways, 14 steel pipe piles (24-inch) will be installed, while 8 steel monopiles (36-inch) will be installed to support the fender assembly. Table 3 provides a summary of proposed construction elements.

Table 3. Construction elements for the landship. Please note that the anticipated construction timeline and project phasing are subject to change based on funding availability.

Structures			
Construction Phase	Construction Element	Pile number and type	Pile size
Phase 2 (FY24+)	Gangway	14 steel monopiles	24"
	Fendering	8 steel monopiles	36"

General's Ramp

The general's ramp is located at the southeast corner of the Third Port facility. The general's ramp is a gently sloped concrete ramp used to load and unload wheeled cargo. The area of the ramp adjacent to Goose Island has experienced accretion of sandy material along the shoreline, which has hindered vessel movement in the area. A subaqueous steel sheet bulkhead (approximately 200 linear feet) will be installed perpendicular to the shore at the southeast edge of the general's ramp to prevent sloughing of material or slope slip failure into the basin while protecting existing wetlands. A steel monopile (36-inch) and donut fender assembly will protect the channelward end of the bulkhead. Approximately 0.01 acres of unvegetated subaqueous bottom will be hardened due to the bulkhead. Table 4 provides a summary of proposed construction elements.

Table 4. Construction elements for the general's ramp. Please note that the anticipated construction timeline and project phasing are subject to change based on funding availability.

Structures				
Construction Phase	Construction Element	Length (feet)	Pile number and type	Pile size
Phase 1 (FY24+)	Bulkhead	200	Steel sheet	24"
	Fendering		1 steel monopile	36"

Debris Removal

Debris created from the removal of existing structures, including timber piles, decking, and other debris, would be removed from the work area via barge and placed in containers on land. The debris would then be trucked to a nearby landfill or other appropriate disposal facility.

Dredging Methods

New work and current and future maintenance dredging would be conducted by mechanical dredge, hydraulic cutterhead dredge, or a combination of both plant types consistent with the most economical and environmentally acceptable alternative. If mechanical dredges are used, dredged material would be removed from the channel and placed onto a scow or barge. Dredged material may be pumped out of the scow and placed via pipeline into Fort Eustis Dredged Material Management Area (FEDMMA), a nearby upland placement site, if that is identified as the appropriate placement site. If hydraulic cutterhead dredges are used, dredged material would be hydraulically pumped via pipeline into FEDMMA. The dredged material would be hydraulically pumped through a pipeline (typically 16" – 20" diameter) varying in length from approximately 4,000 feet to 6,000 feet, depending on the distance to the FEDMMA. The pipeline would run over water, supported by floatation devices, to the shoreline, then cross Harrison Road and into FEDMMA. If dredged material placement capacity is not available at FEDMMA, the scow or barge may be transported for placement of dredged material at the Norfolk Ocean Disposal Site (NODS) if that is identified as the appropriate placement site.

Pile Driving Effects Analysis Third Port Improvements Project

This effects analysis used the GARFO Acoustics Tool (published 14 September 2020) to estimate pile driving impacts of the Third Port Improvements Project on Atlantic sturgeon. Estimates are based on the Simplified Attenuation Formula (SAF) used for projects in rivers and nearshore environments. For this project, installation of all piles may be by either impact or vibratory hammer; therefore, proxy projects using impact hammers were chosen to estimate the maximum effects of the project. The next largest or nearest pile size was selected. Note that the project includes the proposed installation of concrete sheet pile to form a wave screen. Concrete piles (24-inch) were used to estimate the effects of installing concrete sheet piles.

Table 1: Proxy Projects for Estimating Underwater Noise

Project Location	Water Depth (m)	Pile Size (inches)	Pile Type	Hammer Type	Attenuation rate (dB/10m)
Not Available	15	24"	AZ Steel Sheet	Impact	5
Not Available	<5	36"	Steel Pipe	Impact	5
Not Available	5	24"	Concrete	Impact	5
Rodeo, CA - San Francisco Bay, CA	5	24"	Steel Pipe	Impact	3

Table 2: Proxy-Based Estimates for Underwater Noise

Type of Pile	Hammer Type	Estimated Peak Noise Level (dB _{Peak})	Estimated Pressure Level (dB _{RMS})	Estimated Single Strike Sound Exposure Level (dB _{sSEL})
24" AZ Steel Sheet	Impact	205	190	180
36" Steel Pipe	Impact	208	190	180
24" Concrete	Impact	185	170	160
24" Steel Pipe	Impact	203	189	178

Table 3: Estimated Distances to Sturgeon/Salmon Injury and Behavioral Thresholds

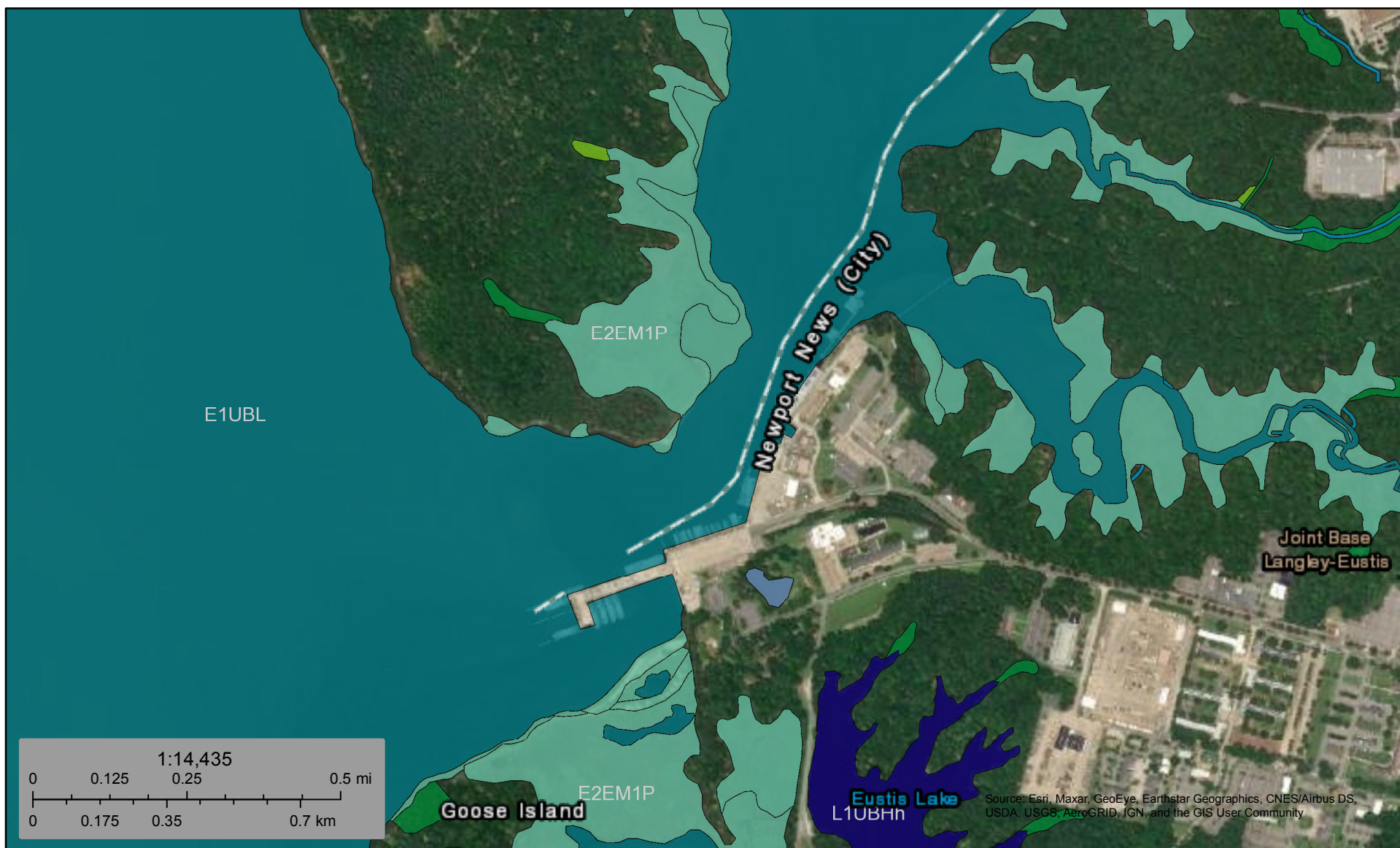
Type of Pile	Hammer Type	Distance (m) to 206dB _{Peak} (injury)	Distance (m) to 150 dB _{sSEL} (surrogate for 187 dBcSEL injury)	Distance (m) to Behavioral Disturbance Threshold (150 dB _{RMS})
24" AZ Steel Sheet	Impact	8.0	70.0	90.0
36" Steel Pipe	Impact	14.0	70.0	90.0
24" Concrete	Impact	NA	30.0	50.0
24" Steel Pipe	Impact	0.0	103.3	140.0



U.S. Fish and Wildlife Service

National Wetlands Inventory

Skiffes Creek Improvements Project



July 1, 2021

Wetlands

Estuarine and Marine Deepwater	Freshwater Emergent Wetland	Lake
Estuarine and Marine Wetland	Freshwater Forested/Shrub Wetland	Other
	Freshwater Pond	Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

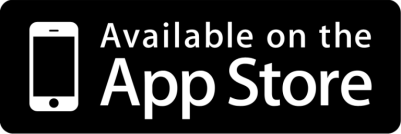


Chesapeake Bay Map

Disclaimer: this GIS data is not guaranteed to be accurate and complete at any given time. Although it is expected that the data will be used for regulatory and permitting processes, any user of this data should verify their use of the data with Marine Resources Commission and/or VDH Division of Shellfish Sanitation staff before taking action or otherwise using the data to make decisions, particularly when related to regulatory and permitting processes, or any other legal action.

Cursor Lat / Long: N37-11.1919, W76-33.5437

Click Lat / Long:



Map Layers

Shellfish Grounds

- ☒ Private Oyster Ground Leases
- ☒ Oyster Ground Applications
- ☒ Shellfish Condemnation Zones By VDH
- ☒ Open Harvest Areas 4 VAC 20-720
- ☒ Public Grounds
- ☒ Public Clamming Grounds
- ☒ Oyster Sanctuaries
- ☐ State Marsh and Meadow Lands
- ☒ Submerged Aquatic Vegetation Sanctuaries
- ☒ Submerged Aquatic Vegetation 2015-2019
- ☐ PRFC Jones Shore Special Mgmt Area

Fixed Fishing Devices

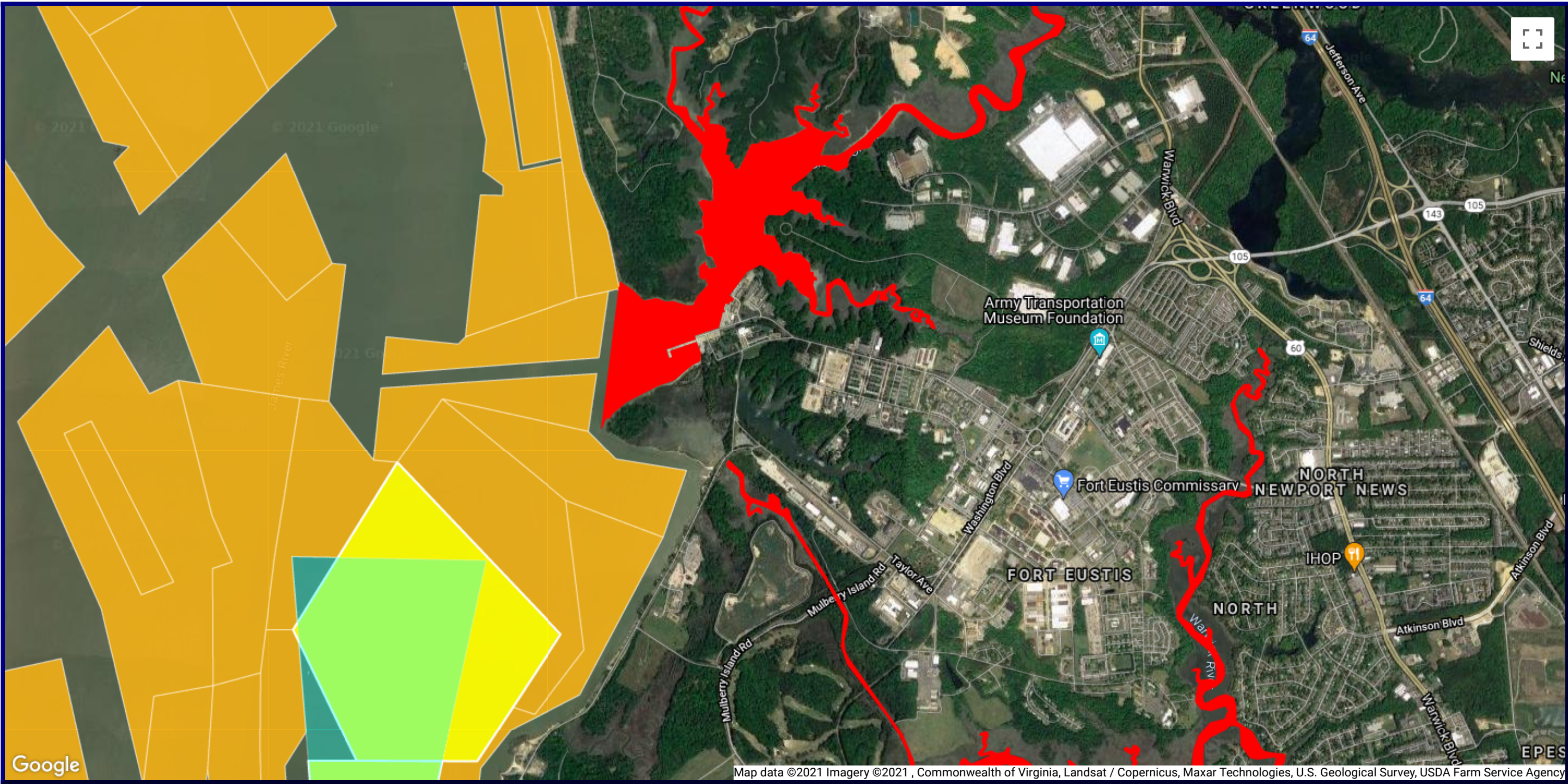
- ☐ Pound Nets
- ☐ Staked Gill Nets
- ☐ Fyke Nets

Habitat Permits

- ☐ Habitat Permit Applications in 2017
- ☐ Habitat Permit Applications in 2018
- ☐ Habitat Permit Applications in 2019
- ☐ Habitat Permit Applications in 2020
- ☐ Oyster Gardening Permits

Miscellaneous

- ☐ Marine Police District Officers
- ☐ Tides Provided by NOAA
- ☐ Blue Crab Sanctuaries 4 VAC 20-752





Sheet List Table	
Sheet Number	Sheet Title
1	TITLE SHEET
2	LOCATION MAP
3	GENERAL NOTES & HISTORICAL DREDGING AREAS
4	OVERALL MAP
5	FINGER PIER EXISTING CONDITION
6	FINGER PIER PROPOSED LAYOUT
7	PROPOSED FINGER PIER DETAIL
8	PROPOSED FINGER PIER DETAIL (CONT'D)
9	NEW WORK – DREDGING AREAS
10	EXISTING CONDITION – MOORING FIELD SITE
11	PROPOSED LAYOUT MOORING FIELD SITE OPTION A – RIPRAP SILL
12	PROPOSED LAYOUT MOORING FIELD SITE OPTION B – BULKHEAD SILL
13	LANDSHIP AREA
14	GENERALS RAMP
15	DEBRIS REMOVAL

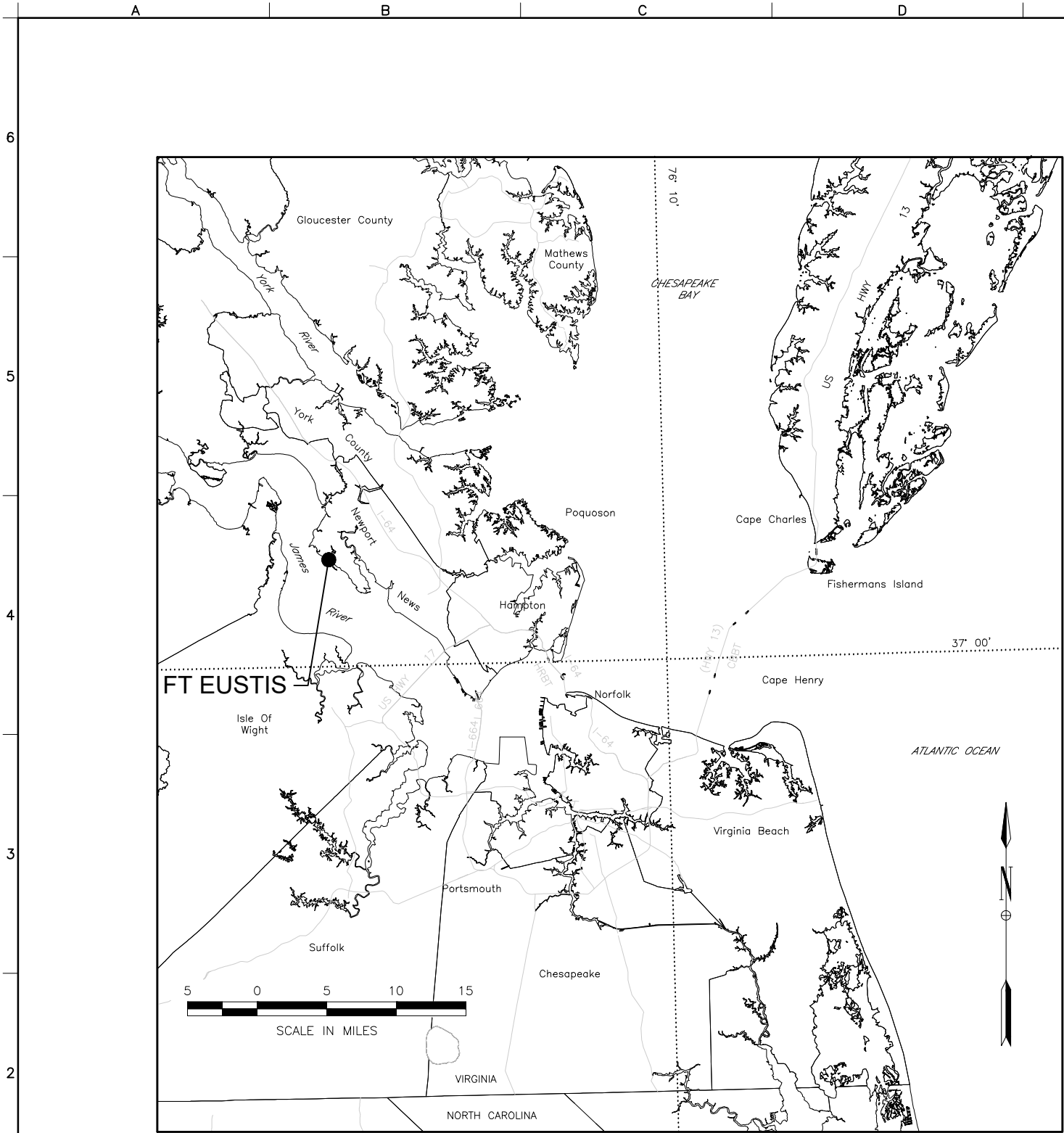
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NORFOLK DISTRICT CORPS OF ENGINEERS NORFOLK, VIRGINIA	DESIGNED BY	15 JUL 2021
	DRAWN BY	SOMER
	H.A.F.	
	NORFOLK DISTRICT FILE NO.	
	SKC 2021-11-03PS (1)	
	DRAWING NO.	
	SUPPLIED BY:	
	M.G.	

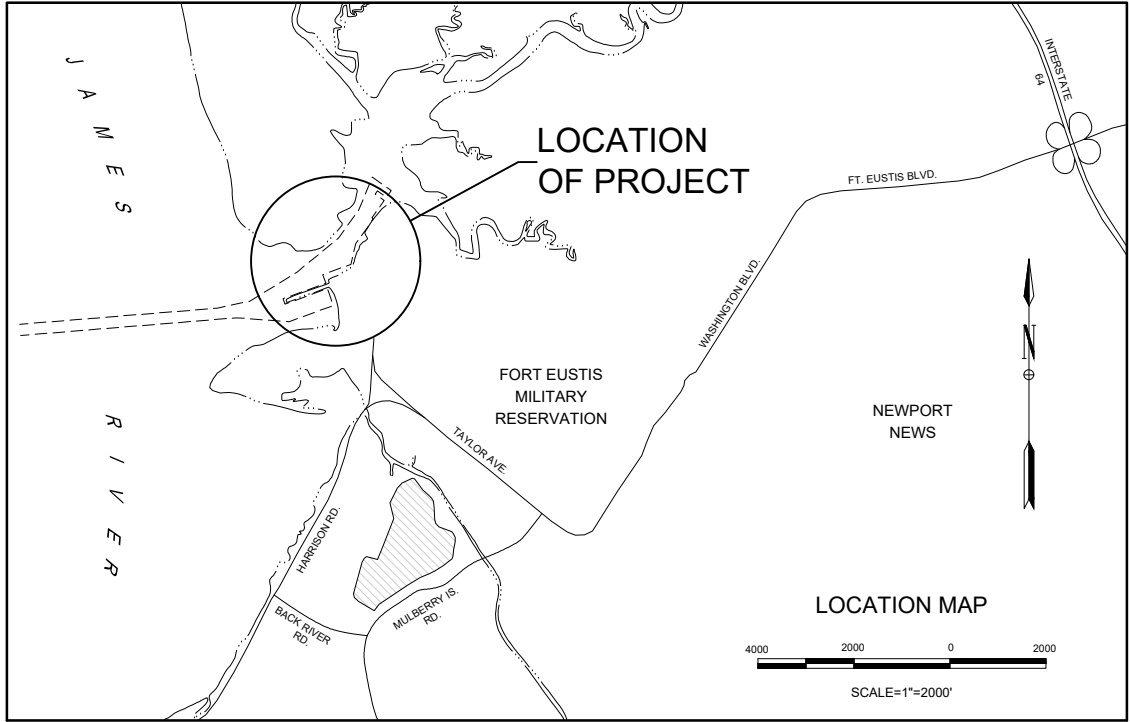
PROPOSED IMPROVEMENTS TO THE THIRD
PORT FACILITY LOCATED AT
SKIFFES CREEK, FORT EUSTIS
FORT EUSTIS, VIRGINIA

TITLE SHEET

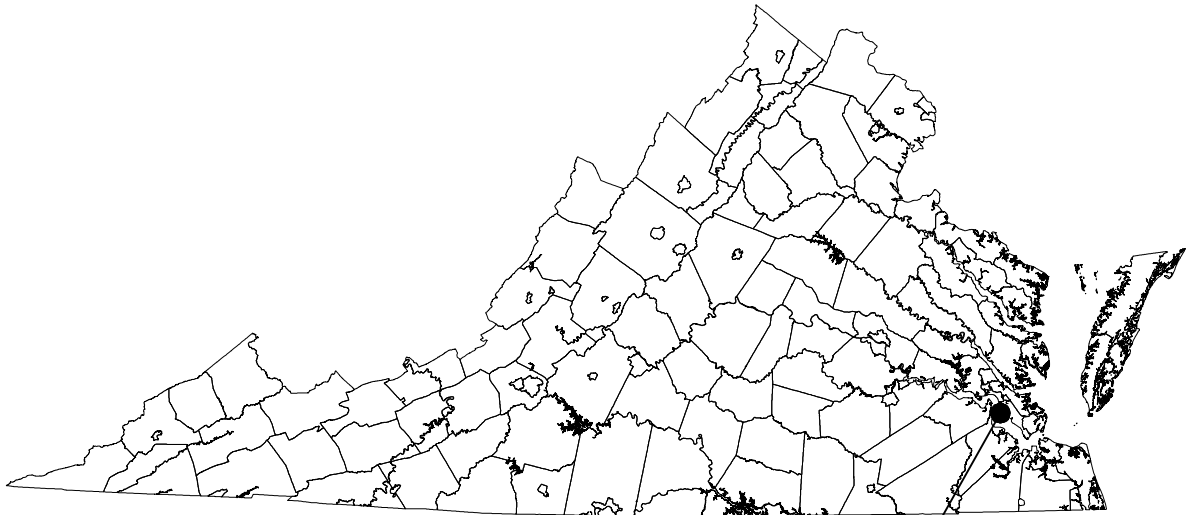
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VICINITY MAP



LOCATION MAP



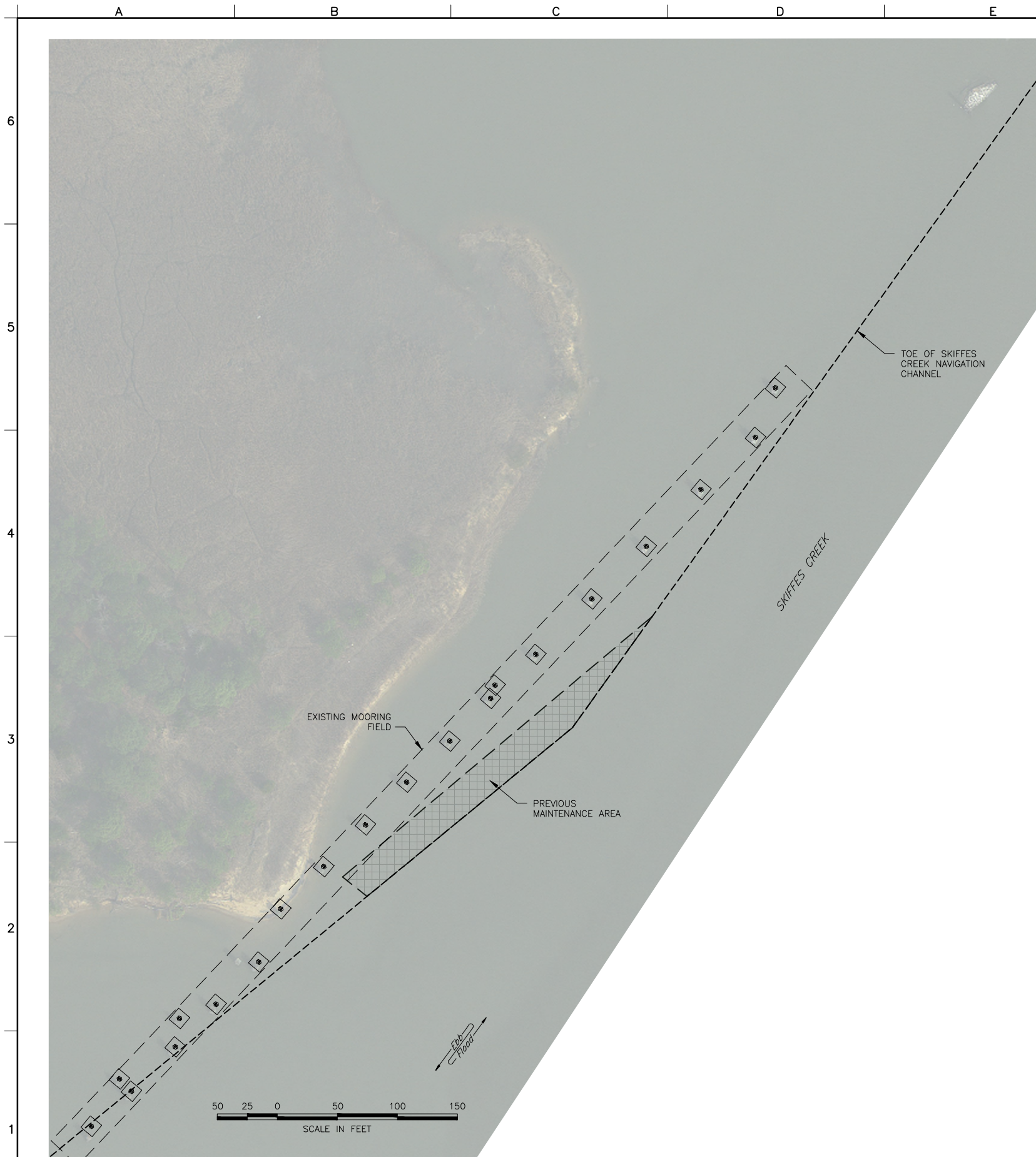
VIRGINIA



REV.	DATE	DESCRIPTION	BY	APP.

NORFOLK DISTRICT CORPS OF ENGINEERS NORFOLK, VIRGINIA	DESIGNED: H.A.F.	DATE: 15 JUL 2021
	DRAWN: H.A.F.	SCALE: AS SHOWN
	CHECKED: R.S.P.	
	SUBMITTED: M.A.W.	
	APPROVED: SVC 2021-11-03.PS (2)	
	DRAWING NO.	
	DRAWN BY:	
	CHECKED BY:	
	DATE:	

PROPOSED IMPROVEMENTS TO THE THIRD
PORT FACILITY LOCATED AT
SKIFFES CREEK, FORT EUSTIS
FORT EUSTIS, VIRGINIA



LEGEND

NAVIGATION CHANNEL

TREE LINE

COORDINATES OF CENTERLINE STATIONS		
STATION	EAST (X)	NORTH (Y)
0+0.00	12,027,863.29	3,589,034.09
46+43.3	12,032,491.47	3,589,409.04
66+63.3 (S)	12,034,390.22	3,590,098.36
66+63.3 (N)	12,034,332.20	3,590,258.15
71+46.5	12,034,786.36	3,590,423.04
76+64.2	12,034,902.97	3,590,927.38
90+67.7	12,035,721.23	3,592,067.71

BENCHMARKS	
BENCHMARK	ELEVATION
CE "THIRD, 2001"	+8.94'
CE "PORT, 2001"	+7.79'
CE "PMI-5, 2003"	+8.40'

Elevations are relative to
NOS MLLW, 1983-2001 NTDE

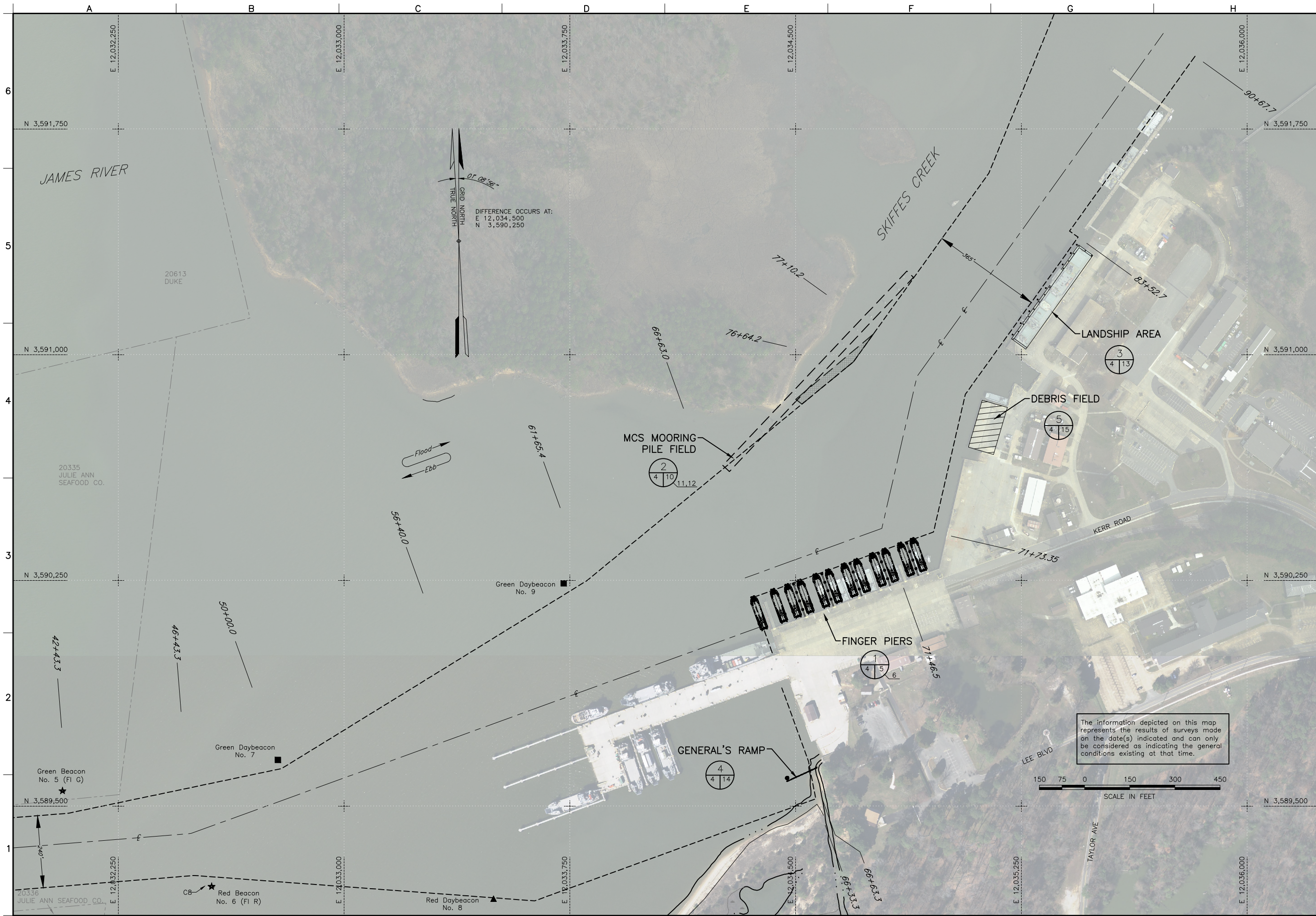
The information depicted on this map represents the results of surveys made on the date(s) indicated and can only be considered as indicating the general conditions existing at that time.

[illegible]

NORFOLK DISTRICT CORPS OF ENGINEERS NORFOLK, VIRGINIA	DESIGNED BY: GARY H.A.F.	CHECKED BY: R.S.P.	DATE: 15 JUL 2021
	DRAWING NO.: SKC-2021-11-03.PS (3)	SCALE: M.A.W.	
	SUPPLIED BY: M.C.		

**PROPOSED IMPROVEMENTS TO THE THIRD
PORT FACILITY LOCATED AT
SKIFFES CREEK, FORT EUSTIS
FORT EUSTIS, VIRGINIA**

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REV.	DATE	DESCRIPTION	BY	APP.

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DRAWN: H.A.F.	SCALE: 1"=400'
CHECKED: M.A.W.	PROJECT NO: 11-03.PS (4)
APPROVED: S.K.C. 2021-11-03.PS (4)	SUBMITTED BY: M.Q.
DESIGNED: R.S.P.	DATE: 15 JUL 2021
DRAWN: H.A.F.	SCALE: 1"=400'
CHECKED: M.A.W.	PROJECT NO: 11-03.PS (4)
APPROVED: S.K.C. 2021-11-03.PS (4)	SUBMITTED BY: M.Q.

PROPOSED IMPROVEMENTS TO THE THIRD
PORT FACILITY LOCATED AT
SKIFFES CREEK, FORT EUSTIS
FORT EUSTIS, VIRGINIA
OVERALL MAP

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FINGER PIER EXISTING CONDITION
SCALE: 1"=50'

1
4 5

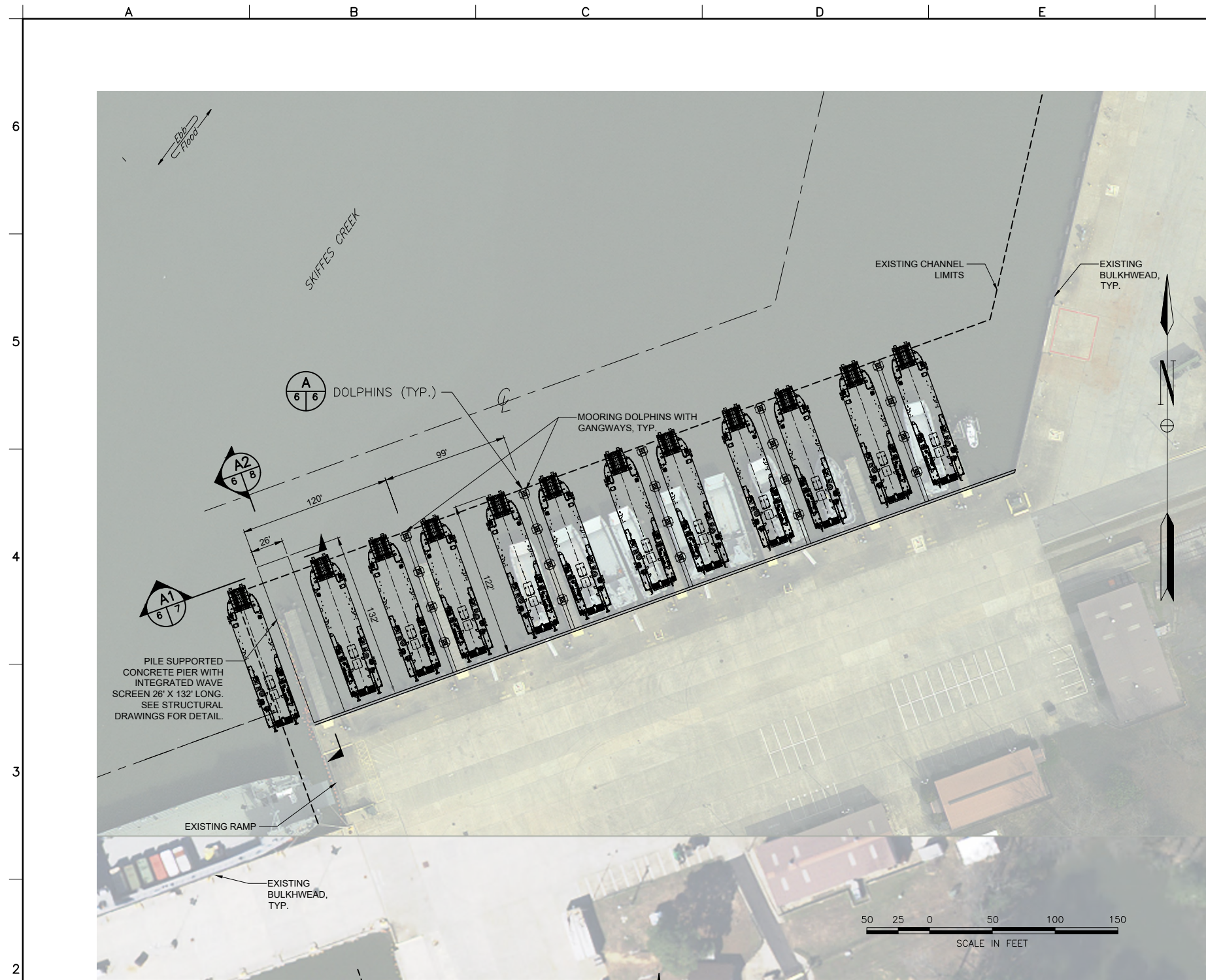


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PROJECT NO.: SKC-2021-11-03.PS (5)	PROJECT TITLE: FINGER PIER EXISTING CONDITION
DESIGNED BY: M.Q.	DRAWN BY: M.Q.

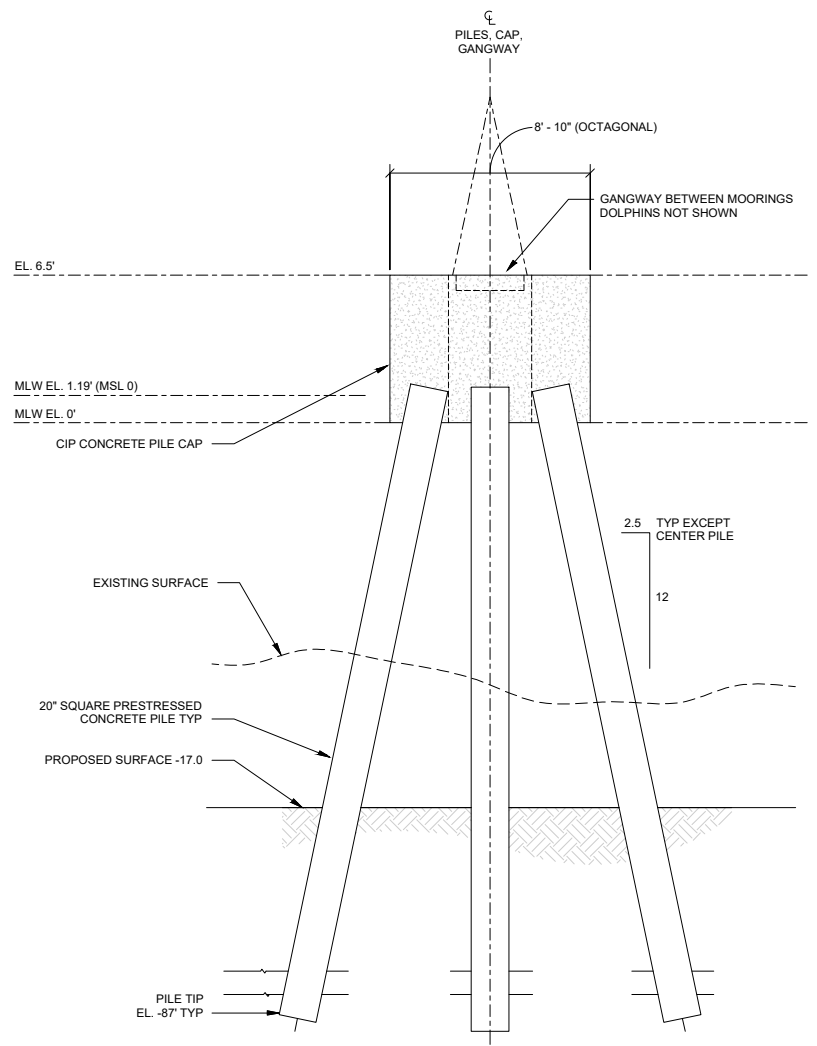
PROPOSED IMPROVEMENTS TO THE THIRD
PORT FACILITY LOCATED AT
SKIFFES CREEK, FORT EUSTIS
FORT EUSTIS, VIRGINIA
FINGER PIER EXISTING CONDITION

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FINGER PIER PROPOSED LAYOUT
SCALE: 1"=50'

1
4 6



TYPICAL DOLPHIN ELEVATION
N.T.S.

A
6 6

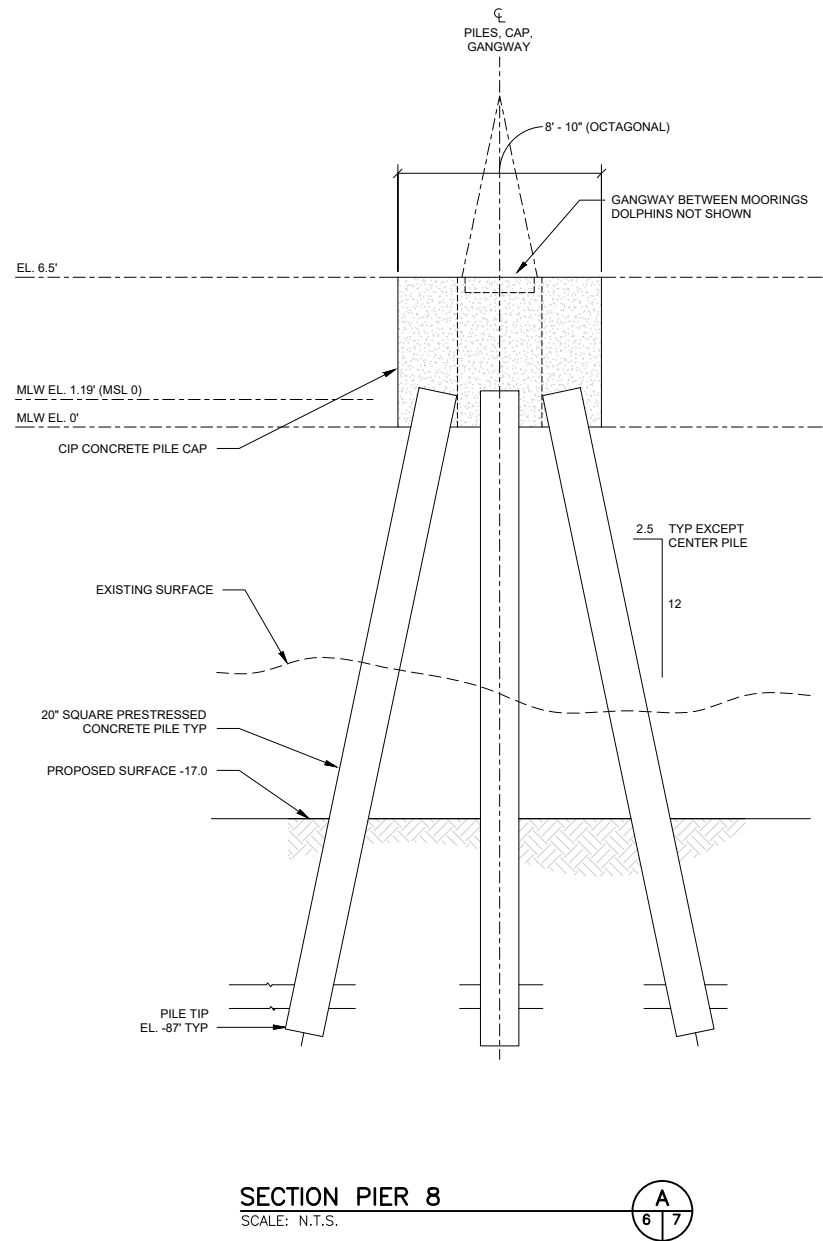
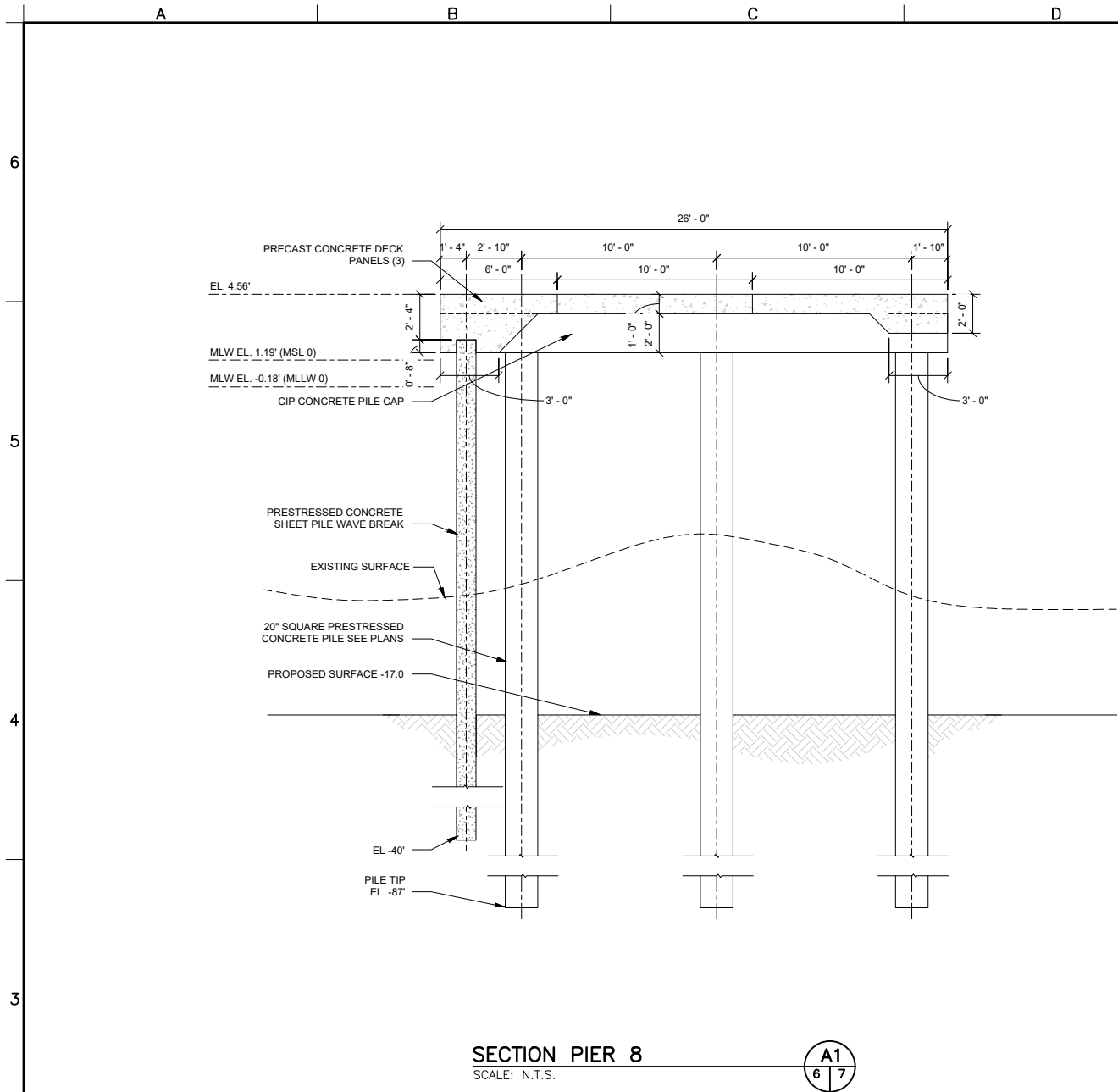


REV.	DATE	DESCRIPTION	BY	APP.

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DRAWN: H.A.F.	PROJECT: SKC 2021-11-03.PS (6)	
CHECKED: M.A.W.	DESIGNED BY: M.Q.	
APPROVED: M.Q.		
NORFOLK DISTRICT CORPS OF ENGINEERS NORFOLK, VIRGINIA		

PROPOSED IMPROVEMENTS TO THE THIRD
PORT FACILITY LOCATED AT
SKIFFES CREEK, FORT EUSTIS
FORT EUSTIS, VIRGINIA
FINGER PIER PROPOSED LAYOUT

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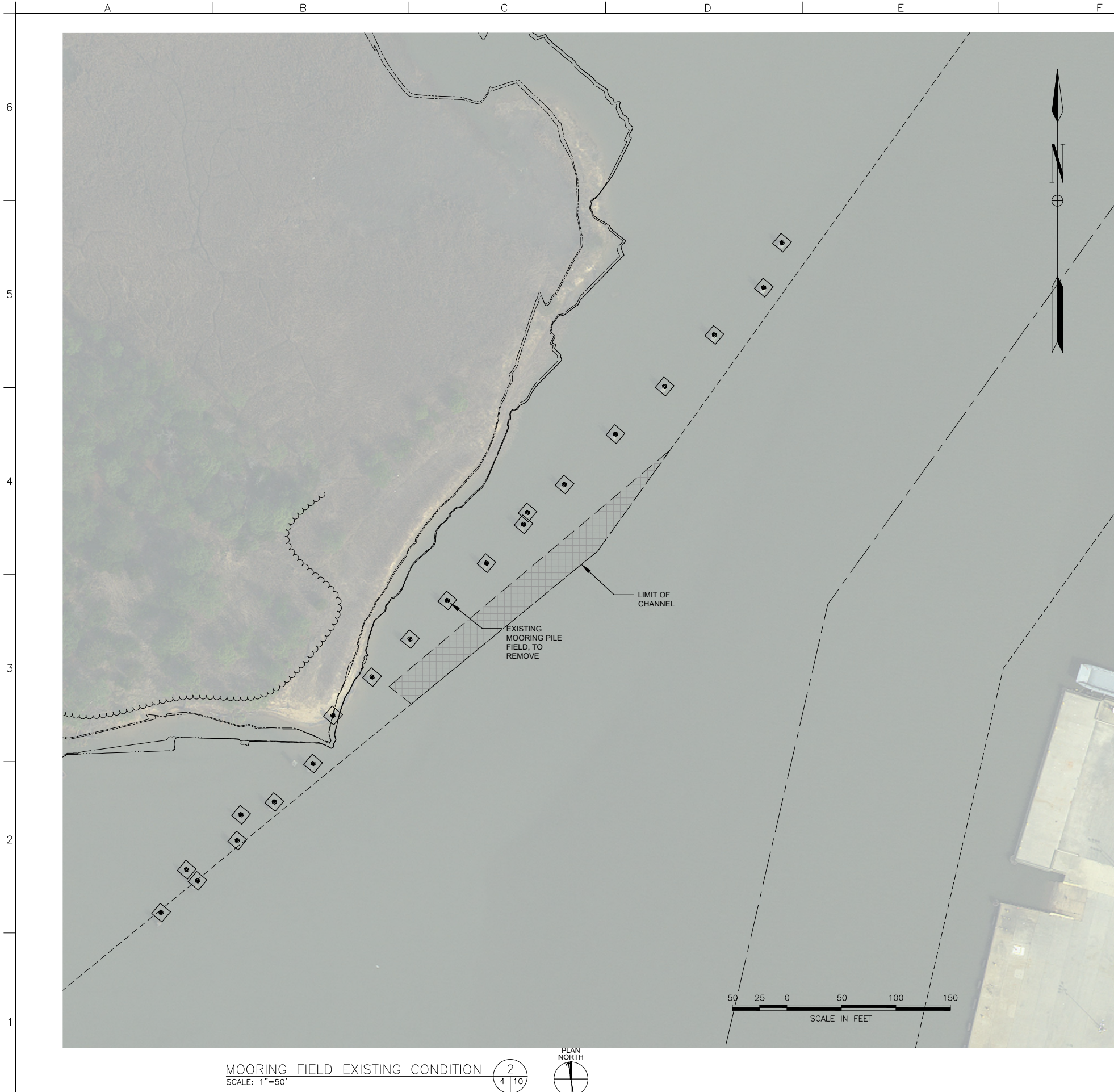


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DESIGNED: R.S.P.	DATE: 15 JUL 2021
DRAWN: H.A.F.	SCALE: 1"=10'
CHECKED: M.A.W.	PROJECT: SKC-2021-11-03.PS (7)
APPROVED: M.Q.	DRAWING NO.

PROPOSED IMPROVEMENTS TO THE THIRD
PORT FACILITY LOCATED AT
SKIFFES CREEK, FORT EUSTIS
FORT EUSTIS, VIRGINIA
PROPOSED FINGER PIER DETAIL





MOORING FIELD EXISTING CONDITION
SCALE: 1"=50'



PROPOSED IMPROVEMENTS TO THE THIRD
PORT FACILITY LOCATED AT
SKIFFES CREEK, FORT EUSTIS
FORT EUSTIS, VIRGINIA

EXISTING CONDITION - MOORING FIELD SITE

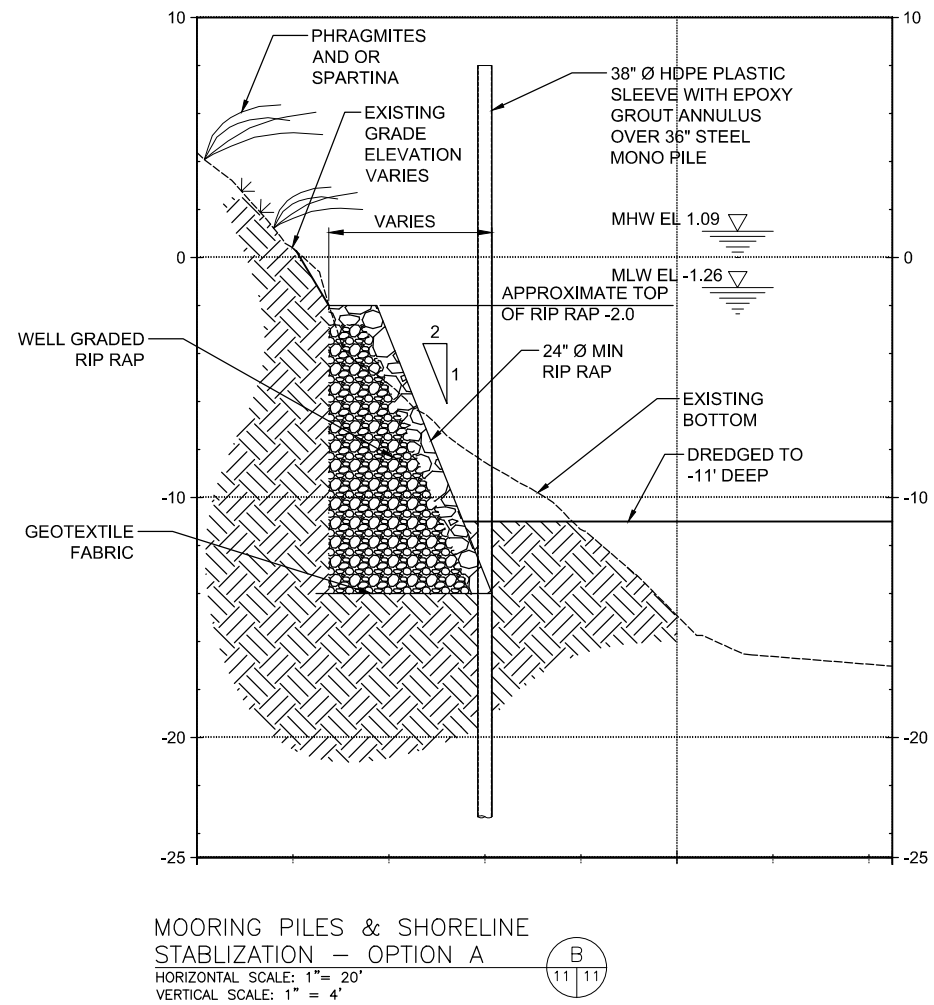
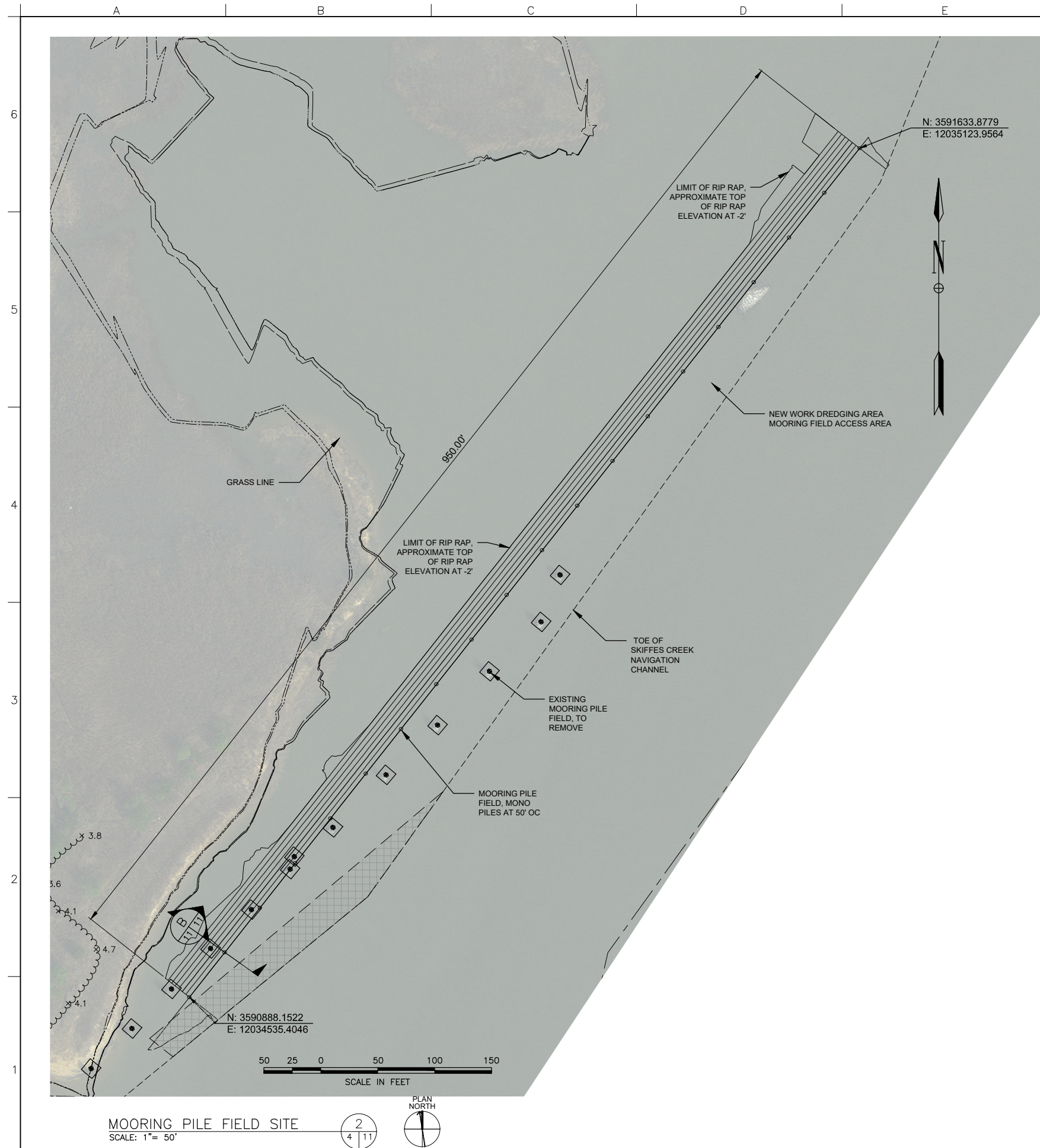
SHEET 10 OF 15

NORFOLK DISTRICT CORPS OF ENGINEERS NORFOLK, VIRGINIA	DESIGNER	CHECKED	DATE
	DRAWING	SUBMITTED	15 JUL 2021
	H.A.F.	M.A.W.	
	NORFOLK DISTRICT FILE NO.:	SCALE:	
	DRAWING NO.:	SKC 2021-11-03.PS (10)	
	SURVEYED BY:	M.Q.	

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US Army Corps
of Engineers
Norfolk District

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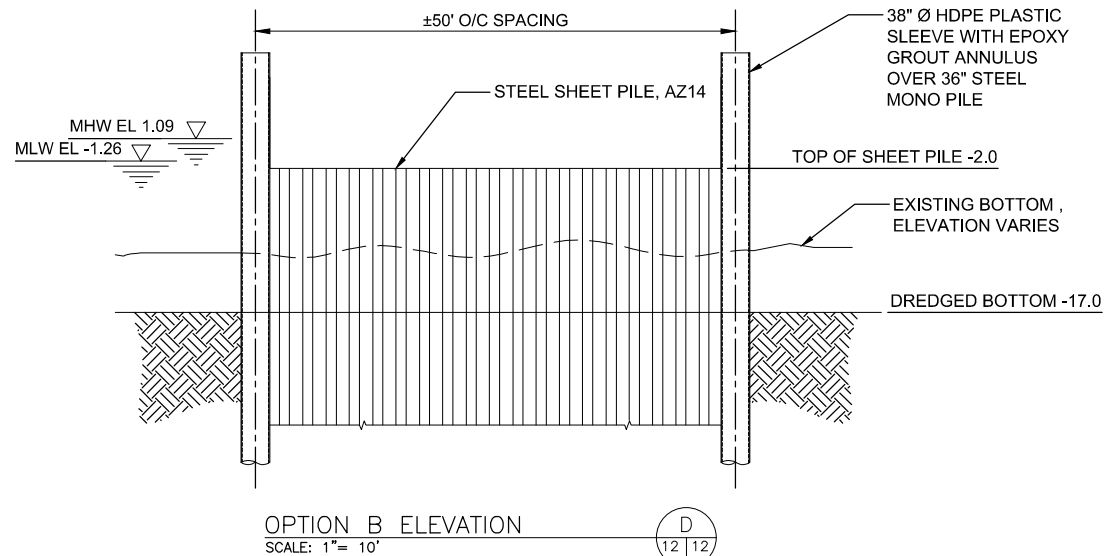
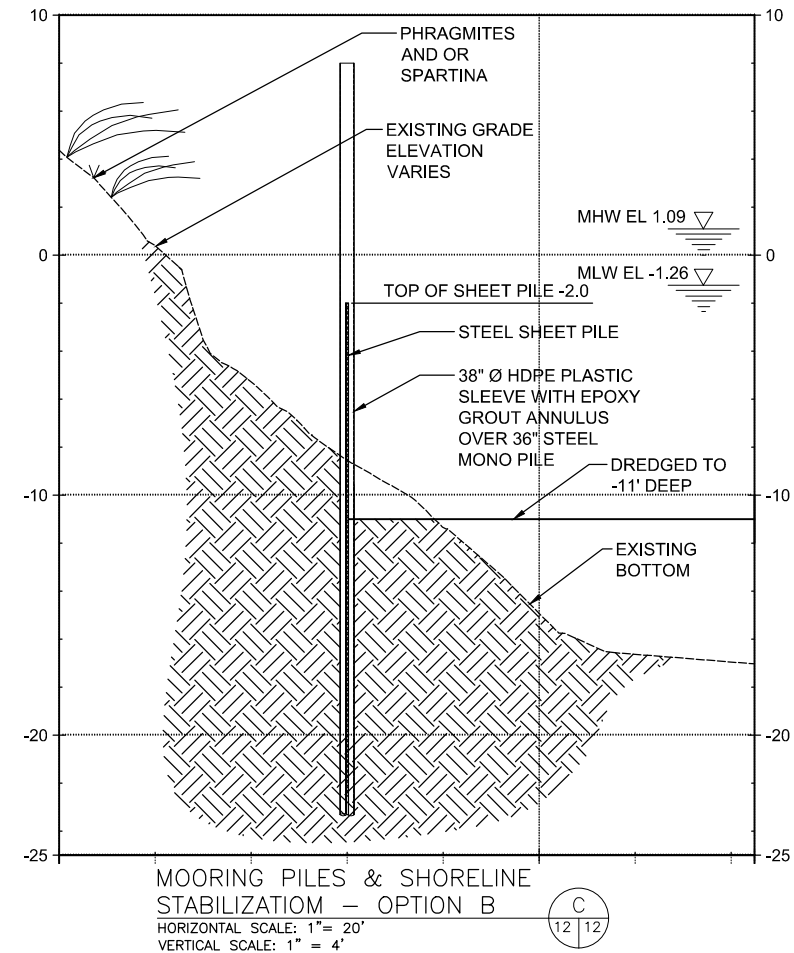
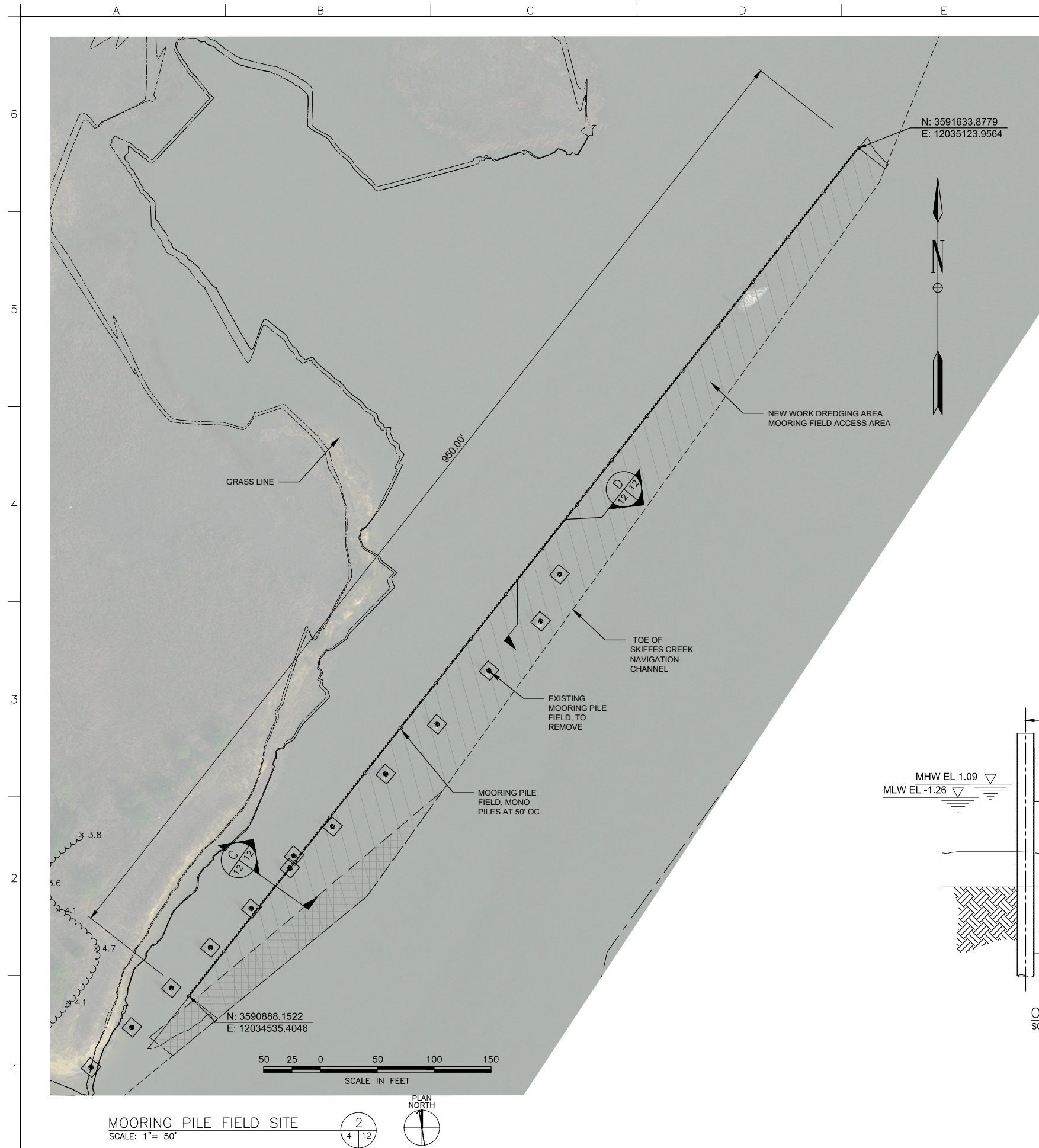


REV.	DATE	DESCRIPTION	BY	APP.

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DRAWN BY: M.A.W.	SCALE: 1" = 10'
CHECKED BY: M.A.W.	PROJECT: SKC 2021-11-03.PS (11)
APPROVED BY: M.Q.	DRAWING NO.:
NORFOLK DISTRICT	NORFOLK, VIRGINIA
CORPS OF ENGINEERS	

PROPOSED IMPROVEMENTS TO THE THIRD
PORT FACILITY LOCATED AT
SKIFFES CREEK, FORT EUSTIS
FORT EUSTIS, VIRGINIA
PROPOSED LAYOUT MOORING FIELD SITE
OPTION A - RIPRAP SILL

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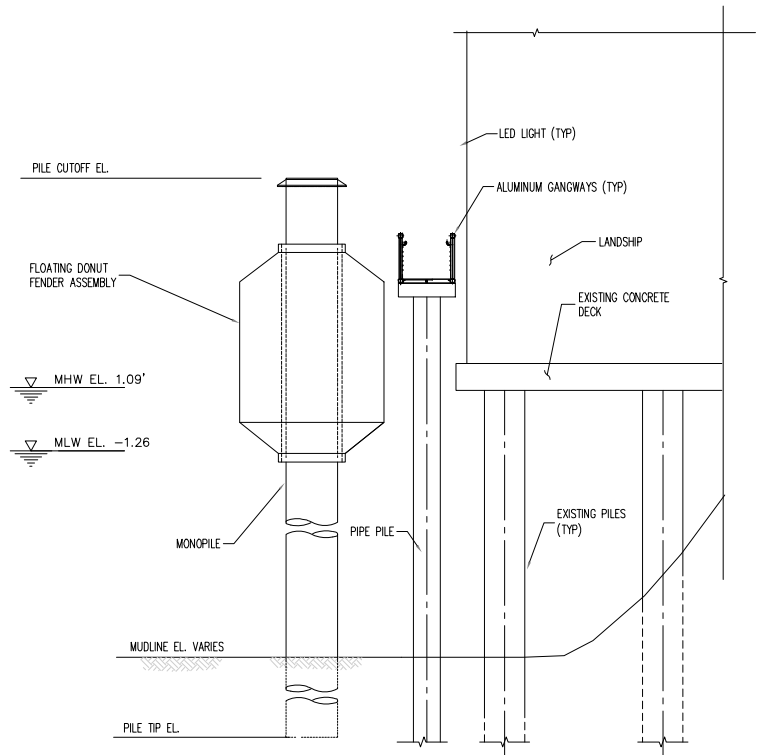


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DESIGNED BY	DATE	15 JUL 2021
DRAWN BY	SCALE	1" = 20'
CHECKED BY	DATE	15 JUL 2021
APPROVED BY	DATE	15 JUL 2021
PROJECT NO.	SKC 2021-11-03.PS (12)	
PROJECT NAME	NORFOLK DISTRICT CORPS OF ENGINEERS NORFOLK, VIRGINIA	

PROPOSED IMPROVEMENTS TO THE THIRD
PORT FACILITY LOCATED AT
SKIFFES CREEK, FORT EUSTIS
FORT EUSTIS, VIRGINIA
PROPOSED LAYOUT MOORING FIELD SITE
OPTION B - BULKHEAD SILL

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MONOPOLE BREASTING DOLPHINS
WITH DONUT FENDER

SCALE: 1"=10'

E
13 13

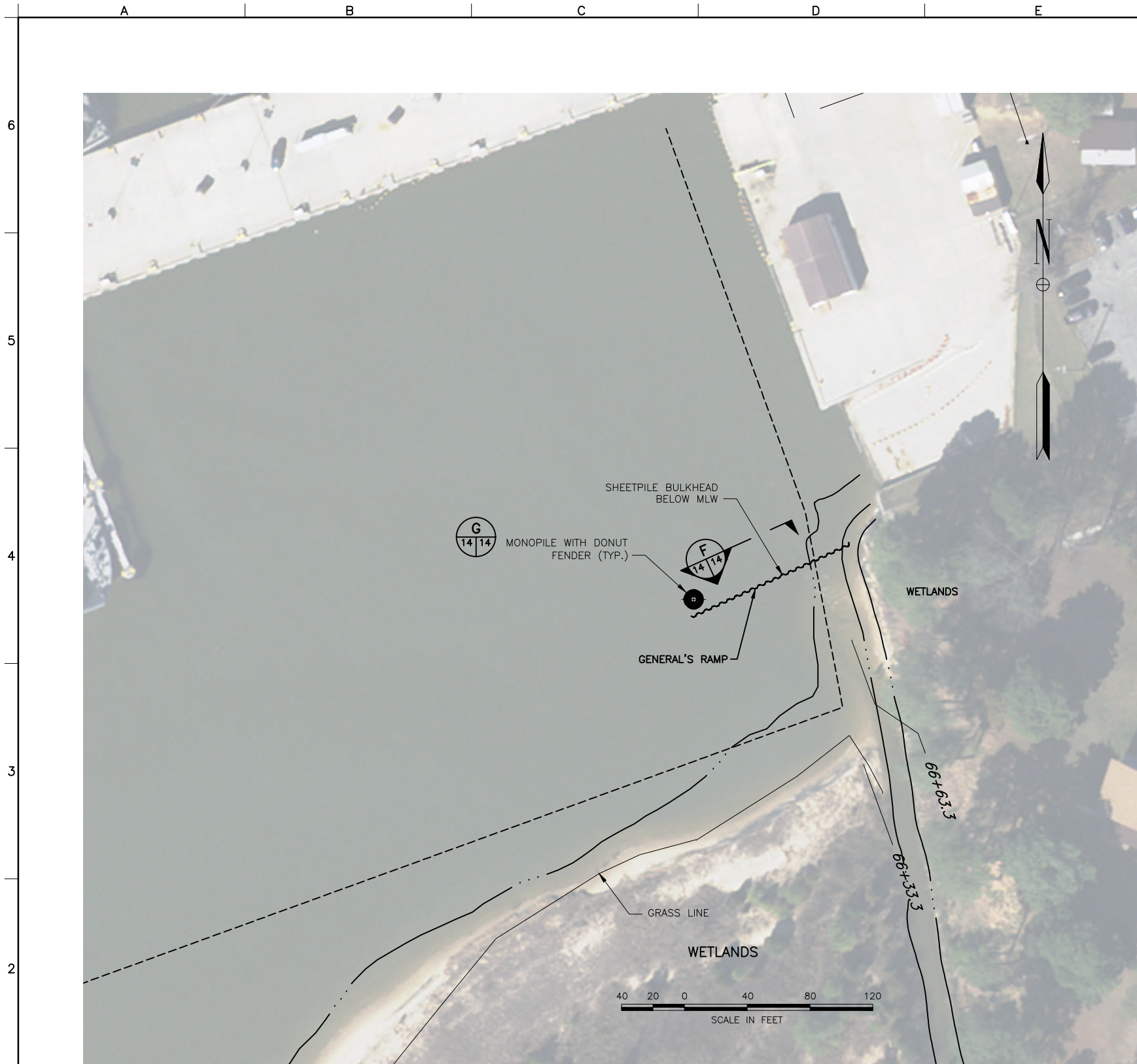


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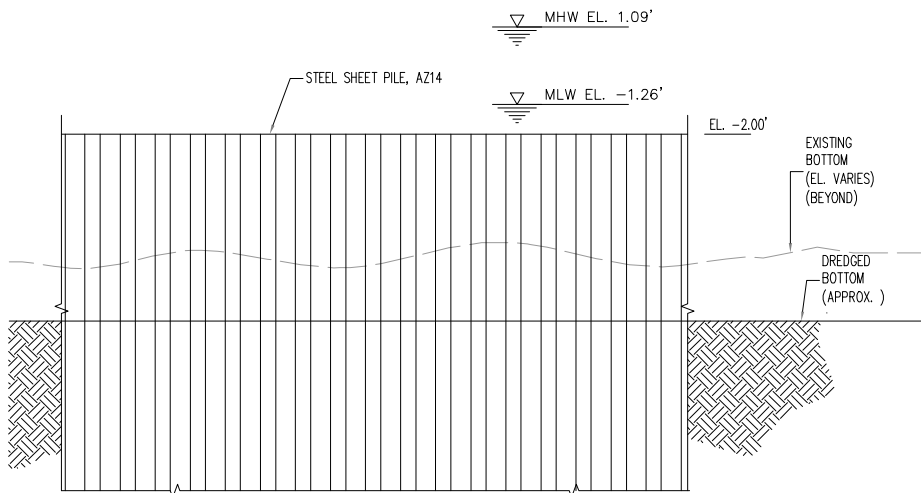
DESIGNED: R.S.P.	DATE: 15 JUL 2021
DRAWN: H.A.F.	SCALE: N.A.W.
CHECKED: M.A.W.	PROJECT NO.: SKC-2021-11-03.PS (13)
SUBMITTED: M.A.W.	DRAWN BY: M.Q.

PROPOSED IMPROVEMENTS TO THE THIRD
PORT FACILITY LOCATED AT
SKIFFES CREEK, FORT EUSTIS
FORT EUSTIS, VIRGINIA
LANDSHIP AREA

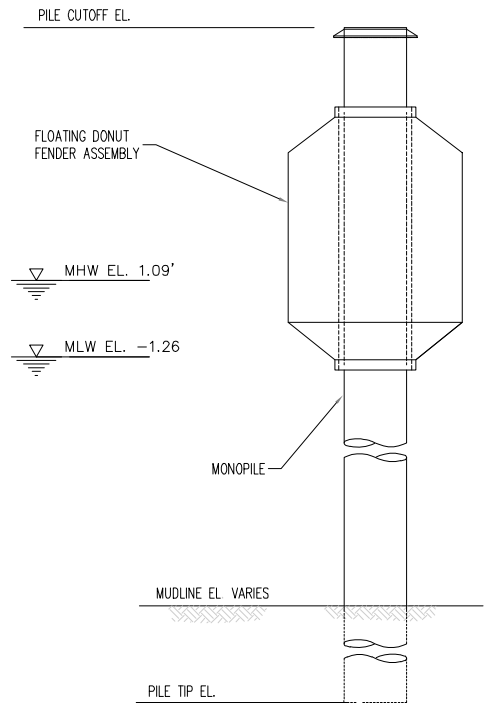
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GENERAL'S RAMP
SCALE: 1"=50'



SHEETPILE ELEVATION
GENERAL'S RAMP
N.T.S.



MONOPILE WITH DONUT FENDER
N.T.S.



REV.	DATE	DESCRIPTION	BY	APP.

DESIGNED: R.S.P.	DATE: 15 JUL 2021
DRAWN: H.A.F.	SCALE: 1/4"=1'-0"
CHECKED: M.A.W.	
PROJECT NO: SKC-2021-11-03.PS	
DRAWN BY: M.Q.	

PROPOSED IMPROVEMENTS TO THE THIRD
PORT FACILITY LOCATED AT
SKIFFES CREEK, FORT EUSTIS
FORT EUSTIS, VIRGINIA
GERERALS RAMP

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NORFOLK DISTRICT CORPS OF ENGINEERS NORFOLK, VIRGINIA	DESIGNED:	CHECKED:	DATE:
	DRAWN:	R.S.P.	15 JUL 2021
	H.A.F.	SUBMITTED:	SCALE:
		M.A.W.	
	NORFOLK DISTRICT FILE NO.:		
	SKC 2021-11-03 PS (15)		
	DRAWING NO.:		
	SURVEYED BY:		
	M.Q.		

PROPOSED IMPROVEMENTS TO THE THIRD
PORT FACILITY LOCATED AT
SKIFFES CREEK, FORT EUSTIS
FORT EUSTIS, VIRGINIA
DEBRIS REMOVAL

From: [Brian D Hopper - NOAA Federal](#)
To: [Wood, Megan A CIV USARMY CENAO \(USA\)](#)
Subject: Re: [Non-DoD Source] Re: USACE NLAA Program: Third Port Improvements Project (NAO-2020-00611)
Date: Tuesday, August 10, 2021 10:35:24 AM
Attachments: [final_NAO-2020-00611.pdf](#)

for your records

On Tue, Aug 10, 2021 at 8:21 AM Wood, Megan A CIV USARMY CENAO (USA) <Megan.A.Wood@usace.army.mil> wrote:

Brian, see attached. I printed the signature page like last time so you wouldn't have issues. I also added the sheet pile number in the noise section, although it doesn't allow decimals.

Thanks!

Megan

From: Brian D Hopper - NOAA Federal <brian.d.hopper@noaa.gov>
Sent: Tuesday, August 10, 2021 8:01 AM
To: Wood, Megan A CIV USARMY CENAO (USA) <Megan.A.Wood@usace.army.mil>
Subject: Re: [Non-DoD Source] Re: USACE NLAA Program: Third Port Improvements Project (NAO-2020-00611)

just the form, please. thanks!

On Mon, Aug 9, 2021 at 3:07 PM Wood, Megan A CIV USARMY CENAO (USA) <Megan.A.Wood@usace.army.mil> wrote:

Brian, to clarify, to you just want the form or do you want the whole package (sans letter) again?

Thanks!

Megan

From: Brian D Hopper - NOAA Federal <brian.d.hopper@noaa.gov>
Sent: Monday, August 9, 2021 9:25 AM

To: Wood, Megan A CIV USARMY CENAO (USA)

<Megan.A.Wood@usace.army.mil>

Subject: Re: [Non-DoD Source] Re: USACE NLAA Program: Third Port Improvements Project (NAO-2020-00611)

Hi Megan,

I think you will need to make the correction and re-sign the form. Once it's ready, you can send it to me for my signature. Oh, and in the future, you don't need to prepare a cover letter to accompany the form. Thanks!

-Brian

On Thu, Aug 5, 2021 at 3:35 PM Wood, Megan A CIV USARMY CENAO (USA)

<Megan.A.Wood@usace.army.mil> wrote:

Brian, I was reviewing the documents for the project and noticed a typo in one of the justifications. The justification for PDC #16 states that the total anticipated area of new work dredging is 6 acres. This is incorrect. The total new work dredging area is 3.9 acres, and there is 0.25 acre of maintenance. This information is correct elsewhere on the verification form and in the appendix. Please let me know how you would like me to correct this.

Thanks!

Megan

From: Brian D Hopper - NOAA Federal <brian.d.hopper@noaa.gov>

Sent: Thursday, July 22, 2021 11:34 AM

To: Wood, Megan A CIV USARMY CENAO (USA)

<Megan.A.Wood@usace.army.mil>

Subject: Re: [Non-DoD Source] Re: USACE NLAA Program: Third Port Improvements Project (NAO-2020-00611)

thanks for the info about the concrete piles. i added that to the form from this end.

i think i figured out a way to sign the form. please let me know if you have any issued with the attached copy.

On Thu, Jul 22, 2021 at 10:16 AM Wood, Megan A CIV USARMY CENAO (USA) <Megan.A.Wood@usace.army.mil> wrote:

Brian, I can sign the signature page in the unlocked version I sent you and the security panel says there are no document restrictions. Can you explain the issue you're having? I may be able to get Lesley to sign the page again without locking as well.

As for the 30" x 12" concrete sheet piles, the wave screen will be 126' in length, indicating that the maximum number of sheet piles installed to be 50.4. It is unlikely that the wave screen would be continuous, so the constructed wave screen may have fewer sheet piles. Hydrodynamic modeling is currently being conducted to determine the appropriate level of porosity (voids), comparing 0% (continuous), 20%, and 40%.

Please let me know if you need more information.

Thanks!

Megan

From: Brian D Hopper - NOAA Federal <brian.d.hopper@noaa.gov>
Sent: Thursday, July 22, 2021 9:55 AM
To: Wood, Megan A CIV USARMY CENAO (USA) <Megan.A.Wood@usace.army.mil>
Subject: Re: [Non-DoD Source] Re: USACE NLAA Program: Third Port Improvements Project (NAO-2020-00611)

thanks! much better, except for the signature page, which is still locked. also, i didn't see a number for how many 30 inch concrete piles would be installed.

On Wed, Jul 21, 2021 at 3:30 PM Wood, Megan A CIV USARMY CENAO (USA) <Megan.A.Wood@usace.army.mil> wrote:

Brian, see if the attached version works better for you.

Thanks!

Megan

From: Brian D Hopper - NOAA Federal <brian.d.hopper@noaa.gov>
Sent: Wednesday, July 21, 2021 7:52 AM
To: Wood, Megan A CIV USARMY CENAO (USA) <Megan.A.Wood@usace.army.mil>
Subject: [Non-DoD Source] Re: USACE NLAA Program: Third Port Improvements Project (NAO-2020-00611)

Hi Megan,

Thanks for submitting your consultation package. When you have a minute, could you please send me an unlocked version of the form? I can't electronically sign the one attached to your email. Please let me know if you have any questions.

Thanks!

-Brian

On Tue, Jul 20, 2021 at 2:36 PM NMFS.GAR ESA.Section7 - NOAA Service Account <nmfs.gar.esa.section7@noaa.gov> wrote:

----- Forwarded message -----

From: Wood, Megan A CIV USARMY CENAO (USA) <Megan.A.Wood@usace.army.mil>
Date: Mon, Jul 19, 2021 at 5:13 PM
Subject: USACE NLAA Program: Third Port Improvements Project (NAO-2020-00611)
To: nmfs.gar.esa.section7@noaa.gov <nmfs.gar.esa.section7@noaa.gov>
Cc: Pruhs, Robert S CIV USARMY CENAO (USA) <Robert.S.Pruhs@usace.army.mil>, Reinheimer, Shannon J CIV USARMY CENAO (USA) <Shannon.J.Reinheimer@usace.army.mil>

Good afternoon,

Please find attached the GARFO NLAA Program Verification package, including the verification form, drawings, and other supporting documentation, for the Third Port Improvements Project located in Skiffes Creek at Joint Base Langley-Eustis – Fort Eustis in Newport News Virginia. An environmental assessment is being prepared for the project and is anticipated to be available for public review and comment in the fall.

Please let me know if you have any questions or require additional information.

Thanks!

Megan

Megan A. Wood, PhD
Environmental Scientist
Technical Support Section, Operations Branch
Water Resources Division, Norfolk District
757-201-7843

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