PUBLIC NOTICE

REQUEST FOR PERMISSION TO ALTER A U.S. ARMY CORPS OF ENGINEERS PROJECT UNDER SECTION 408

TITLE: Delaware Department of Natural Resources and Environmental Control (DDNREC) -Division of Watershed Stewardship – Indian River Inlet Shoal Dredging and Beach Placement Project sited at the Indian River and Inlet Federal Navigation Project and the Delaware Coast Protection Sand Bypass Plant Flood and Coastal Storm Damage Reduction Federal Civil Works Project, all located in Sussex County, Delaware

PUBLIC NOTICE IDENTIFICATION NUMBER: 408-NAP-2024-0015

PUBLIC NOTICE COMMENT PERIOD:

Begins: 01 October 2024

Expires: 16 October 2024

Interested parties are hereby notified that an application has been received for a Department of the Army Section 408 permission for certain work at or near a federal project of the United States, as described below and shown on attached figures. Written comments are being solicited from anyone having an interest in the requested alteration. Comments will become part of the U.S. Army Corps of Engineers' (USACE's) administrative record and will be considered in determining whether to approve the request. Comments supporting, opposing, or identifying concerns that should be considered by the USACE in its decision process are all welcome.

This public notice is not a paid advertisement and is for public information only. Issuance of this notice does not imply USACE endorsement of the project as described.

1. REQUESTOR: In compliance with 33 USC 408 (Section 14 of the Rivers and Harbors Act of 1899; hereinafter Section 408), the Delaware Department of Natural Resources and Environmental Control (DDNREC) - Division of Watershed Stewardship has requested permission to undertake the Indian River Inlet Shoal Dredging and Beach Placement Project, which is sited at the Indian River and Inlet Federal Navigation Project and the Delaware Coast Protection Sand Bypass Plant Flood and Coastal Storm Damage Reduction Federal Civil Works Project.

2. LOCATION: The proposed project is located at the Indian River, its inlet to the Atlantic Ocean, and the north side of Indian River Inlet's beach (North Beach) at Delaware Seashore State Park, all in Sussex County, Delaware, at approximate center coordinates 38.609874, -75.063154.

3. LOCATION MAP(S)/DRAWING(S): Please see attached Project Plan Sheets 1-17.

4. REQUESTER'S PROPOSED ACTION: The proposed action entails renourishment of the beach and dune system along the north side of Indian River Inlet beach (North Beach) at Delaware Seashore State Park, utilizing dredged material sourced from submarine borrow sites. The stated purpose of the project is to protect critical infrastructure from inundation and coastal erosion.

Renourishment along North Beach at Delaware Seashore State Park will be completed utilizing dredged material sourced from the hydraulic dredge removal of up to 800,000.0-cubic yards of bottom sediments from the following submarine borrow sites: Indian River Inlet Flood Shoal, Middle Island Shoal, and Burton Island Shoal. The Indian River Flood Shoal is proposed to be dredged to -24.0-feet NAVD with 1.0-foot of overdredge. The Middle Island and Burton Island Shoals are proposed to be dredged to -10.0-feet NAVD.

All dredged material will be transported via floating and submerged pipeline from the borrow sites to the beach placement area, crossing within and proximate to the Indian River and Bay Federal Navigation Project, including the Indian River Inlet's northern bulkhead where active construction repairs are currently underway. In areas that cross navigable channels, the dredge pipeline will be submerged and anchored to the sea bottom.

Dredged material placement will begin at the Indian River Inlet's north jetty and extend northward approximately 5,200.0-linear feet. The dredged material will be spread and graded within the fill area by bulldozers to the authorized federal design template specifications of the Delaware Coast Protection Sand Bypass Plant Flood and Coastal Storm Damage Reduction Federal Civil Works Project.

5. REGULATORY AUTHORITY: This request will be reviewed according to the provisions of Section 14 of the Rivers and Harbors Act of 1899 (33 U.S.C. 408). A requestor has the responsibility to acquire all other permissions or authorizations required by federal, state, and local laws or regulations, including any required permits from the USACE Regulatory Program under Section 10 of the Rivers and Harbors Act of 1899 (33 USC 403), Section 404 of the Clean Water Act (33 USC Section 1344) and/or Section 103 of the Marine Protection, Research and Sanctuaries Act of 1972 (33 USC 1413). Any Section 10/404/103 permit decision associated with the proposed alteration is separate from and will not be included in the Section 408 permission decision. An approval under Section 408 does not grant any property rights or exclusive privileges nor does it authorize any injury to the property or rights of others.

6. ENVIRONMENTAL COMPLIANCE: A decision on a Section 408 request is a federal action, and therefore subject to the National Environmental Policy Act (NEPA) and other environmental compliance requirements. While ensuring compliance is the responsibility of USACE, the requester is providing all information that the Philadelphia District identifies as necessary to satisfy all applicable federal laws, executive orders, regulations, policies, and ordinances. Based on information provided by the applicant to date, current Corps regulations governing NEPA implementation, and/or the contents of existing NEPA documentation if available, it is likely that the proposed action will be determined to be categorically excluded from the need to prepare an Environmental Assessment (EA) or Environmental Impact Statement (EIS). This determination will be finalized following

completion of agency coordination and prior to issuance of the Section 408 Permission Decision.

7. EVALUATION: As part of its evaluation, USACE will first make a determination that the submittal from the requestor is complete. The Philadelphia District is working closely with the requestor to ensure that all required technical plans, maps, drawings, and specifications are provided and are complete. Once the package is complete, a District-led review will be conducted to determine, in accordance with Engineering Circular (EC) 1165-2-216, whether the proposed alteration will impair the usefulness of the USACE Project or be injurious to the public interest, as follows:

- A. *Impair the Usefulness of the Project Determination*. The Philadelphia District's Section 408 review team will determine if the proposed alteration will limit the ability of the federally authorized project to function as authorized, or will compromise or change any authorized project conditions, purposes or outputs.
- B. Injurious to the Public Interest Determination. Proposed alterations will be reviewed to determine the probable impacts, including cumulative impacts, on the public interest. Evaluation of the probable impacts that the proposed alteration to the USACE project may have on the public interest requires a careful weighing of all those factors that are relevant in each particular case. Factors that may be relevant to the public interest depend upon the type of USACE project being altered and may include, but are not limited to, such things as conservation, economic development, historic properties, cultural resources, environmental impacts, water supply, water quality, flood hazards, floodplains, residual risk, induced damages, navigation, shore erosion or accretion, and recreation. The decision whether to approve an alteration will be determined by the consideration of whether benefits are commensurate with risks. If the potential detriments are found to outweigh the potential benefits, then it may be determined that the proposed alteration is injurious to the public interest.

8. SOLICITATION OF COMMENTS: The USACE is soliciting comments from the public; federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of the proposed activity. Any comments received will be considered by USACE to determine whether to issue, modify, condition, or deny a permission for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and other public interest factors listed above. Comments are considered in making a final determination whether the proposed action will be categorically excluded from the need to prepare further NEPA documentation. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

A. It should be noted that materials submitted as part of the Section 408 request become part of the public record and are thus available to the general public under the procedures of the Freedom of Information Act (FOIA). Individuals may submit a written request to the Philadelphia District Corps of Engineers, Office of Counsel to obtain copies of said materials under the FOIA.

B. It is presumed that all parties viewing this notice will wish to respond to this public notice; therefore, a lack of response will be interpreted as meaning that there is no objection to the project as described.

9. COMMENT SUBMISSION AND ADDITIONAL INFORMATION: Written comments on the described work should reference the USACE Public Notice Identification Number found on the first page of this notice. Comments must reach this office no later than the stated expiration date of the Public Notice to become part of the record and be considered in the decision. Comments or requests for additional information should be emailed or mailed to the following address:

Email: Bishel.Baby@usace.army.mil Mailing Address: U.S. Army Corps of Engineers Philadelphia District Attn: Bishel B. Baby 1650 Arch Street, 7th Floor Philadelphia, PA 19103-2004

INTERMEDIATE (60%) DESIGN PLAN SET INDIAN RIVER INLET SHOAL DREDGING AND NORTH BEACH REPAIR PROJECT DELAWARE DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENTAL CONTROL







DELAWARE DEPARTMENT OF NATURAL RESOURCES AND **ENVIRONMENTAL CONTROL**

\mathbf{O}	
NORTH	
5000	10000
SCALE IN FEET	

		DRAWING INDEX
SHT NO.	DWG NO.	TITLE
1	T-01	TITLE SHEET AND VICINITY MAP
2	G-01	GENERAL NOTES AND LEGEND
3	C-01	GENERAL LAYOUT AND SAMPLING PLAN - INDIAN RIVER INLET NORTH SHORE
4	C-02	PLAN - GENERAL ARRANGEMENT INDIAN RIVER INLET NORTH SHORE
5	C-03	PLAN - INDIAN RIVER INLET NORTH SHORE
6	C-04	PLAN - INDIAN RIVER INLET NORTH SHORE
7	C-05	TYPICAL SECTIONS - BEACHFILL AND TEMPORARY ACCESS ROADS
8	C-06	PLAN - INDIAN RIVER INLET INTERIOR SHOAL BORROW AREA
9	C-07	TYPICAL SECTIONS - INDIAN RIVER INLET FLOOD SHOAL BORROW AREA
10	C-08	PLAN - MIDDLE ISLAND SHOAL BORROW AREA
11	C-09	TYPICAL SECTIONS - MIDDLE ISLAND SHOAL BORROW AREA (SHEET 1 OF 2)
12	C-10	TYPICAL SECTIONS - MIDDLE ISLAND SHOAL BORROW AREA (SHEET 2 OF 2)
13	C-11	PLAN - BURTON ISLAND SHOAL BORROW AREA
14	C-12	TYPICAL SECTIONS - BURTON ISLAND SHOAL BORROW AREA
15	C-13	PLAN - PIPELINE ROUTING
16	C-14	TYPICAL DETAILS (SHEET 1 OF 2)
17	C-15	TYPICAL DETAILS (SHEET 2 OF 2)

DNREC CONTRACT NUMBER: NAT25310-IRI_BEACH

				REVISIONS		
REV	DATE	BY	APP'D	DESCRIPTION	DESIGNED BY:	T. MERRITTS
					DRAWN BY:	C. YARD
					CHECKED BY:	M. HENDERSON
					APPROVED BY:	R. MOHAN
					SCALE:	AS NOTED
					DATE:	SEPTEMBER 2024



TITLE SHEET AND VICINITY MAP

INTERMEDIATE (60%) DESIGN PLAN SET

REPAIR PROJECT- SUSSEX COUNTY, DELAWARE

SHEET # 1 OF 17

<u>GENERAL NOTES:</u>	SEQUENCE OF CONSTRUCTION:	
 THIS PROJECT INVOLVES HYDRAULIC DREDGING OF SEDIMENTS FROM THREE POTENTIAL FLOOD SHOALS IN SUSSEX COUNTY, DELAWARE: INDIAN RIVER INLET FLOOD SHOAL, MIDDLE ISLAND SHOAL, AND BURTON ISLAND SHOAL. THE DREDGE SLURRY WILL BE TRANSPORTED BY CONVEYANCE PIPELINE TO THE INDIAN RIVER INLET NORTH SHORE FOR BEACH NOURISHMENT AND DUNE RESTORATION. 	SPECIFIC ACTIVITIES CONDUCTED BY THE CONTRACTOR TO COMPLETE THE WORK INCLUDE, BUT ARE NOT LIMITED TO: 1. CONDUCT FIELD INVESTIGATIONS OR EVALUATIONS TO CONFIRM SITE CONDITIONS AS DEEMED	DETAIL DRAW "-" INE
 WORK MUST BE CONDUCTED AS DEPICTED IN THESE CONTRACT DRAWINGS. IF THE CONTRACT DRAWINGS CONTRADICT THE TECHNICAL SPECIFICATIONS, THE TECHNICAL SPECIFICATIONS WILL GOVERN 	NECESSARY. 2. PREPARE AND SUBMIT FINAL WORK PLANS AND ALL OTHER PRE-CONSTRUCTION SUBMITTALS.	DETAIL
 LOCATIONS DISPLAYED FOR EXISTING CONDITIONS SUCH AS SHORELINES, STRUCTURES, UNDERGROUND UTILITIES, AND OTHER UTILITIES ARE APPROXIMATE. THE CONTRACTOR MUST FIELD VERIFY LOCATION OF SITE STRUCTURES, LOCATION OF SHORELINES, AND LOCATIONS OF OTHER SITE FEATURES PRIOR TO CONSTRUCTION. 	 ATTEND A PRE-CONSTRUCTION MEETING WITH THE OWNER'S REPRESENTATIVE. MEETING SHALL BE ATTENDED BY THE CONTRACTOR, SUBCONTRACTOR(S), AND THE OWNER. MOBILIZE CREWS, EACLUTIES, FOUR MATERIALS, REQUIRED TO THE SPECIFIED. 	SECTIC
 VERIFY LOCATION OF SITE STRUCTURES, LOCATION OF SHORELINES, AND LOCATIONS OF OTHER SITE FEATURES PRIOR TO CONSTRUCTION. THE CONTRACT DRAWINGS WITHOUT THE WAITTEN APPROVAL OF THE OWNER'S REPRESENTATIVE. DETAILS SHOWN ON THE CONTRACT DRAWINGS, THE CONTRACTOR'S WORK MUST NOT VARY FROM THE CONTRACT DRAWINGS WITHOUT THE WRITTEN APPROVAL OF THE OWNER'S REPRESENTATIVE. DETAILS SHOWN ARE TYPICAL; SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE NOTED. THESE CONTRACT DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. THE CONTRACTOR'S RESPONSIBLE FOR THE SAFETY OF SITE PERSONNEL AND MUST RADDE BY THE REQUIREMENTS OF THE TECHNICAL SPECIFICATIONS AND THE CONTRACTOR'S HEALTH AND SAFETY PLAN (HASP), AS APPROPRIATE, AS WELL AS APPLICABLE OCCUPATIONAL SAFETY AND HEALTH ADDISTRATION (OSLA) REGULATIONS. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL UTILITY MARKOUTS AND FORWARDING CONFRMATION OF COMPLETION TO THE OWNER'S REPRESENTATIVE. THIS MOTIFICATION MUST THE CONTRACT DRISH REGISTIONS OF SUBMEREGED UTILITIES INCLUDING AND 'SHOWN ON THE CONTRACT OR IS RESPONSIBLE FOR OBTAINING ALL UTILITY MARKOUTS AND FORWARDING CONFRMATION OF COMPLETION TO THE OWNER'S REPRESENTATIVE. THIS MOTIFICATION MUST BE COMPLETE AND BUTTED FOR VERIFICATION OF ALL UTILITIES INCLUDING AND 'SHOWN ON THE CONTRACT DRAWINGS, TO THE EXTENT THEY ARE KNOWN). A MISS UTILITY DELMARVA MUST BE COMPLETE AND BUTTED TO REPRECIDE UTILITY COMPANIES AND FOR SCHEDULING OF INSPECTIONS BY UTILITY COMPANY STROMEL, IF REQUIRED, DURING CONSTRUCTION. THE CONTRACTOR MUST ADEQUATELY PROTECT ALL EXISTING STRUCTURES AND UTILITIES. ANY DAMAGE TO SIAD STRUCTURES SHORELINES ONTO THE SCHENGES AND UTILITIES. ANY DAMAGE TO SIAD STRUCTURES SHORELINES AND THE SECONSUBILITY OF THE CONTRACTOR MUST ADEQUATELY PROTECT ALL EXISTING STRUCTURES AND UTILITIES. ANY DAMAGE TO SIAD STRUCTURES STRUCTURES AND THE SECONSUBILITY OF THE CONTRACTOR MUST ADEQUATELY PROVINES REPRESIONAL INFORMATION OF HE CONTRACTOR	MOBILIZE CREWS, FACILITIES, EQUIPMENT, AND MATERIALS REQUIRED TO THE SPECIFIED STACING AREAGS, NAD/OR CONTRACTOR-IDENTIFIED BOAT LAUNCH/ACCESS TO COMPLETE THE WORK. CONSTRUCT TEMPORARY FACILITIES TO SUPPORT THE WORK, INCLUDING, BUT NOT LIMITED TO, STACING AREAS AND ACCESS ROADS. INSTALL AND MAINTAIN THE REQUIRED ENVIRONMENTAL AND EROSION AND SEDMENTATION CONTROLS. PREPORM PRE-CONSTRUCTION SURVEY OF INDIAN RIVER INLET NORTH SHORE BEACH NOURSHMENT AND DUNE RESTORATION AREA. DREDGE INDIAN RIVER INLET LOOD SHOREW AREA MIDDLE ISLAND SHOAL BORROW AREA, AND DUNTON SURVEY OF INDIAN RIVER INLET NORTH SHORE BEACH NOURSHMENT AND DUNE RESTORATION AREA. DREDGE INDIAN RIVER INLET LOOD SHOAL BORROW AREA TO THE INMITS SPECIFIED ON CONTRACT DRAWINGSHIPHT AND DUNE RESTORATION AREA. CONDUCT POST-CONSTRUCTION SURVEY OF THE MUDAN RIVER INLET NORTH SHORE BEACH OWNERS REPRESENTATIVE. SURVEY NOTES: UPERCENTION OF ALL SITE AREAS, AS SPECIFIED IN THE CONTRACT DOCUMENTS. ORDUCT POST-CONSTRUCTION SURVEY OF THE MUDAN RIVER INLET NORTH SHORE BEACH OWNERS' REPRESENTATIVE. SURVEY NOTES: UPERCENTION OF ALL SITE AREAS, AS SPECIFIED IN THE CONTRACT DOCUMENTS. ORDUCT POST-CONSTRUCTION SURVEY OF THE MUDAN RIVER INLET NORTH SHORE BEACH OWNERS' REPRESENTATIVE. UPERCENTION OF ALL SITE AREAS, AS SPECIFIED IN THE CONTRACT DOCUMENTS. ORDUCT DREADCARE CONTOURERS SURVEY NOTES: UPERCENTION OF ALL SITE AREAS, AS SPECIFIED IN THE CONTRACT DOCUMENTS. OPTIMUE SECTORATION AREA. SITE RESTORATION OF ALL SITE AREAS, AS SPECIFIED IN THE CONTRACT DOCUMENTS. OUTINES REPRESENTATIVE. UPERCENTION OF ALL SITE AREAS, AS SPECIFIED IN THE CONTRACT DOCUMENTS. ORDUCT DREADCARE LOWW WATER OFTI MLW = -167 FT NAVDER ION WATER. UPERCENTION OFFICE THE SITUM BARING MARATION OFFICE THE SITUM SEATHMENT DATION OFFICE THE	SECTIO
 15. THE INFORMATION DEPICTED ON THIS DRAWING PACKAGE REPRESENT THE RESULTS OF EXISTING CONDITIONS SURVEYS MADE IN FEBRUARY, 2013 AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME. THIS EXISTING CONDITIONS SURVEY MEETS STANDARDS AS OUTLINED IN CORPS OF ENGINEERS HYDROGRAPHIC SURVEY MANUAL EM 1110-2-1003, DATED JANUARY 1, 2002 FOR NAVIGATION AND DREDGING SUPPORT SURVEYS. 16. THE MAXIMUM ALLOWABLE DEPTH FOR REMOVAL OF MATERIAL FROM THE INDIAN ROVER INLET FLOOD SHOAL BORROW AREA SHALL BE -25.0 FT NAVD88, INCLUDING 1-FOOT OVERDREDGE. THE MAXIMUM ALLOWABLE DEPTH FOR THE REMOVAL OF MATERIAL FROM THE BURTON ISLAND BORROW AREA AND THE MIDDLE ISLAND BORROW AREA SHALL BE -10.0 FT NAVD88, INCLUDING A 1-FOOT OVERDREDGE. 17. CHARACTERISTICS OF DREDGE MATERIAL ARE PROVIDED IN APPENDIX B OF THE TECHNICAL SPECIFICATIONS. 	Imit of Dredging @ EL -24.0 Surface sample location Imit of Dredging @ EL -24.0 Surface sample location Imit of Dredging @ EL -24.0 Imit of Dredging @ EL -24.0 </td <td></td>	
ANCHOR QEA	REV DATE BY APP'D DESCRIPTION DESIGNED BY: T. MERRITTS Image: Im	



BAY TIDAL DATUM:



ABBREVIATIONS:

ASTM BD/AD CL CP DE DIA DNREC E EL FT H:V GIS IN IR LB LBS	AMERICAN SOCIETY FOR TESTING AND MATERIALS BACKSITE DISTANCE/ANGLE OF DEPRESSION CENTERLINE CONTROL POINT DELAWARE DIAMETER DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENTAL CO EASTING ELEVATION FEET HORIZONTAL:VERTICAL GEOGRAPHIC INFORMATION SYSTEM INCH INDIAN RIVER POUND POUNDS	NTROL
MAX MHHW MHW MIN MLLW MLW NAD NAD NAVD NO. NOAA RTE SR1 STA SQ	MAXIMUM MEAN HIGHER HIGH WATER MEAN HIGH WATER MINIMUM MEAN LOWER LOW WATER MEAN LOW WATER NORTHING NORTH AMERICAN DATUM NORTH AMERICAN VERTICAL DATUM NUMBER NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION ROUTE STATE ROUTE 1 STATE ROUTE 1 STATION SQUARE	PLAN INTENDED TO BE VIEWED OT ONE "BLUE" "BLUE"

ONE INCH AT FULL

DRAFT-NOT FOR CONSTRUCTION

INTERMEDIATE (60%) DESIGN PLAN SET INDIAN RIVER INLET SHOAL DREDGING AND NORTH BEACH REPAIR PROJECT- SUSSEX COUNTY, DELAWARE

GENERAL NOTES AND LEGEND

Sheet # 2 of 17

G-01





	NDIAN RIVER	INLET NORTH	SHORE
	BD/AD SURV	YEY LINE CONT	rol
STATION	EASTING	NORTHING	AZIMUTH
0+00	75745029	221948.50	84.577
1+00	757422.93	222044.68	84.577
2+00	757395.57	222140.87	84.577
3+00	757368.22	222237.05	84.577
4+00	757340.86	222333.24	84.577
5+00	757313.50	222429.42	84.577
6+00	757286.14	222525.61	84.577
7+00	757258.78	222621.79	84.577
8+00	757231.43	222717.98	84.577
9+00	757204.07	222814.16	84.577
10+00	757187.92	222912.46	84.577
11+00	757178.47	223012.01	84.577
12+00	757169.02	223111.56	84.577
13+00	757159.57	223211.11	84.577
14+00	757150.12	223310.67	84.577
15+00	757140.67	223410.22	84.577
16+00	757131.22	223509.77	84.577
17+00	757121.77	223609.32	84.577
18+00	757112.32	223708.88	84.577
19+00	757102.87	223808.43	84.577
20+00	757093.42	223907.98	84.577
21+00	757083.97	224007.53	84.577
22+00	757074.52	224107.09	84.577
23+00	757065.07	224206.64	84.577
24+00	757055.62	224306.19	84.577





DELAWARE DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENTAL CONTROL

11	NDIAN RIVER	INLET NORTH	SHORE
	BD/AD SURV	YEY LINE CONT	rol
STATION	EASTING	NORTHING	AZIMUTH
25+00	757046.17	224405.74	84.577
26+00	757036.72	224505.30	84.577
27+00	757027.27	224604.85	84.577
28+00	757017.82	224704.40	84.577
29+00	757008.37	224803.95	84.577
30+00	756998.92	224903.51	84.577
31+00	756989.47	225003.06	84.577
32+00	756980.02	225102.61	84.577
33+00	756970.57	225202.16	84.577
34+00	756961.12	225301.72	84.577
35+00	756951.67	225401.27	84.577
36+00	756942.22	225500.82	84.577
37+00	756932.77	225600.37	84.577
38+00	756923.32	225699.93	84.577
39+00	756913.87	225799.48	84.577
40+00	756904.42	225899.03	84.577
41+00	756984.97	225998.58	84.577
42+00	756885.52	226098.14	84.577
43+00	756876.07	226197.69	84.577
44+00	756865.45	226297.13	84.577
45+00	756857.17	226396.79	84.577
46+00	756847.72	226496.35	84.577
47+00	756838.27	226595.90	84.577
48+00	756828.82	226695.45	84.577
49+00	756819.37	226795.00	84.577
50+00	756809.92	226894.56	84.577

				REVISIONS		
REV	DATE	BY	APP'D	DESCRIPTION	DESIGNED BY:	T. MERRITTS
					DRAWN BY:	C. YARD
					CHECKED BY:	M. HENDERSON
					APPROVED BY:	R. MOHAN
					SCALE:	AS NOTED
					DATE:	SEPTEMBER 2024





Existing 20'x30' R-6 Rip Rap	Prop Prop	POSED 20'x30' RIP RAP (BY OTHERS)	HIGHWAY - DELAWARE STATE ROUTE 1	
INDIAN RIVER INLET NORTH SHORE	BERM - EL. +9.2 PROPOSE	DBEACHFILL AREA	ECASTLINE	SE OF BERM
			ATLANTIC OCEAN	PLAN INTENDED TO BE VIEWED IN COLOR, ADJACENT BLOCK IS "BLUE"
VALL NOTES: (BY OTHERS) G INFORMATION IS APPROXIMATE, BASED ON AR SED WALL WILL CONNECT TO EXISTING WALL. TO BETWEEN THE ELEVATION OF EDGE OF SHOULD EXISTING SHEETPILE WALL HAS RIPRAP PROTEC SED PILES. ANY RIPRAP REMOVED WILL BE REPL	CHIVE PLANS, AND TO BE VERIFI P ELEVATION OF PROPOSED WA ER TO 3FT ABOVE THE EDGE OF S CTION WHICH MAY NEED TO BE R ACED AFTER DRIVING PILES.	ED IN THE FIELD. LL WILL VARY. TOP OF WALL MAY SHOULDER OF NORTHBOUND SR1. EMOVED TO PREVENT DAMAGE TO	NOTES: NOTES: 1. HORIZONTAL DATUM: DELAWA NORTH AMERICAN DATUM OF U.S. SURVEY FEET 2. VERTICAL DATUM: NAVD88 DRAFT-NOT FOR CO	RE STATE PLANE , HOU ONE INCH 1983 (NAD83), HOU ONE INCH SIZE IE NOT ONE AT FULL SIZE IE NOT ONE AT FU
REV DATE BY APP'D I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I	DESCRIPTION	DESIGNED BY:T. MERRITTSDRAWN BY:C. YARDCHECKED BY:M. HENDERSONAPPROVED BY:R. MOHANSCALE:AS NOTEDDATE:SEPTEMBER 2024	INTERMEDIATE (60%) DESIGN PLAN SET INDIAN RIVER INLET SHOAL DREDGING AND NORTH BEAC REPAIR PROJECT- SUSSEX COUNTY, DELAWARE PLAN INDIAN RIVER INLET NORTH SHORE	н С-ОЗ SHEET # 5 ог 17



COASTAL HIGHWAY - DELAWARE STATE ROUTE 1 PROPOSED BEACHFILL AREA TOE OF SLOPE ATLANTIC OCEAN

				REVISIONS		
REV	DATE	BY	APP'D	DESCRIPTION	DESIGNED BY:	T. MERRITTS
					DRAWN BY:	C. YARD
					CHECKED BY:	M. HENDERSON
					APPROVED BY:	R. MOHAN
					SCALE:	AS NOTED
					DATE:	SEPTEMBER 2024











				REVISIONS			
	REV	DATE	BY	APP'D DE	ESCRIPTION	DESIGNED BY:	T. MERRITTS
						DRAWN BY:	C. YARD
						CHECKED BY:	M. HENDERSON
						APPROVED BY:	R. MOHAN
						SCALE:	AS NOTED
						DATE:	SEPTEMBER 2024



				ICE VISIONS		
REV	DATE	BY	APP'D	DESCRIPTION	DESIGNED BY:	T. MERRITTS
					DRAWN BY:	C. YARD
					CHECKED BY:	M. HENDERSON
					APPROVED BY:	R. MOHAN
					SCALE:	AS NOTED
					DATE:	SEPTEMBER 2024





	REV	DATE	BY	APP'D	DESCRIPTION	DESIGNED BY:	T. MERRITTS
						DRAWN BY:	C. YARD
						CHECKED BY:	M. HENDERSON
						APPROVED BY:	R. MOHAN
						SCALE:	AS NOTED
						DATE:	SEPTEMBER 2024



				REVISIONS		
REV	/ DATE	BY	APP'D	DESCRIPTION	DESIGNED BY:	T. MERRIT
					DRAWN BY:	C. YARD
					CHECKED BY:	M. HENDE
					APPROVED BY:	R. MOHAN
	_				SCALE:	AS NOTE
	_				DATE:	SEPTEMBE



					REVISIONS		
	REV	DATE	BY	APP'D	DESCRIPTION	DESIGNED BY:	T. MERRITTS
						DRAWN BY:	C. YARD
						CHECKED BY:	M. HENDERSON
						APPROVED BY:	R. MOHAN
						SCALE:	AS NOTED
						DATE:	SEPTEMBER 2024







DELAWARE DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENTAL CONTROL



				REVISIONS		
REV	' DATE	BY	APP'D	DESCRIPTION	DESIGNED BY:	T. MERRITTS
					DRAWN BY:	C. YARD
					CHECKED BY:	M. HENDERSON
					APPROVED BY:	R. MOHAN
					SCALE:	AS NOTED
					DATE:	SEPTEMBER 2024











				REVISIONS		
REV	DATE	BY	APP'D	DESCRIPTION	DESIGNED BY:	T. MERRITTS
					DRAWN BY:	C. YARD
					CHECKED BY:	M. HENDERS
					APPROVED BY:	R. MOHAN
					SCALE:	AS NOTED
					DATE:	SEPTEMBER 2

