



**US Army Corps
of Engineers**
Philadelphia District
1650 Arch Street
Philadelphia, PA 19103-2004
Attn: CENAP-OPR

Public Notice

Comment Period Begins: July 11, 2023
Comment Period Ends: August 10, 2023
File Number: NAP-2023-00743-95
File Name: NJDOT-OMR – Patcong Creek State Channel #179
Maintenance Dredging Project
Contact: Robert Youhas
Email: robert.youhas@usace.army.mil

This District has received an application for a Department of the Army permit pursuant to Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403) and Section 404 of the Clean Water Act (33 U.S.C. 1344).

The purpose of this notice is to solicit comments and recommendations from the public concerning issuance of a Department of the Army permit for the work described below.

APPLICANT: New Jersey Department of Transportation
Office of Maritime Resources
Attn: Ms. Genevieve Clifton
P.O. Box 600
1035 Parkway Avenue
Trenton, New Jersey 08625-0600

AGENT: WSP USA, Inc.
Attn: Ms. Katie Axt
250 W 34th Street, 4 FL
New York, New York 10119

LOCATION: Patcong Creek and Great Egg Harbor Bay in Egg Harbor Township in Atlantic County, New Jersey, Approximate Center Coordinates: 39.305339, -74.628706; Beesley's Point Confined Disposal Facility (CDF) in Upper Township, Cape May County, New Jersey, Approximate Center Coordinates: 39.291244, -74.641878.

PURPOSE: The stated purpose of this project is to maintain safe navigational depths for transiting emergency, commercial, and recreational vessels; and maintain an existing CDF.

PROJECT DESCRIPTION:

The applicant, New Jersey Department of Transportation – Office of Maritime Resources (NJDOT-OMR), has requested Department of the Army (DA) authorization to perform ten (10)-year maintenance dredging

of Patcong Creek State Channel (#179); and undertake repairs to the Beesley's Point CDF.

Maintenance Dredging

Maintenance dredging of approximately 68,820.0-cubic yards of shoaled sediments from the 7,500.0-foot-long Patcong Creek State Channel to - 5.0-feet below the plane of Mean Low Water (MLW) plus 1.0-foot of allowable overdredge is proposed. The channel design width is 100.0-linear feet, with 3:1 side slopes. The total dredge footprint is approximately 17.22-acres.

All of the maintenance dredging work would be accomplished via hydraulic cutterhead dredge. All resultant dredged material, comprised of approximately 50% sand and 50% silt and clay, would be transported via floating and submerged pipeline and pumped directly into geotextile dewatering bags staged within the Beesley's Point CDF. Subsequent to dewatering, all resultant dredged material would be beneficially re-utilized for upland redevelopment projects in the Beesley's Point area. Return water from the Beesley's Point CDF into the waterway is proposed.

Patcong Creek State Channel has been historically maintenance-dredged, with the subject maintenance dredging project intended to restore the State Navigation Channel to authorized project dimensions. No lateral expansion or deepening is proposed.

For navigational safety, the hydraulic dredge pipeline will be marked in accordance with U.S. Coast Guard regulations. Additionally, the dredge pipeline would be submerged with the following exceptions: where it exits the dredge, where it enters and exits booster pumps, where it approaches the geotextile bag dewatering sites, and where submerged aquatic vegetation (SAV) is encountered. In these areas the dredge pipeline will be floated on the surface.

Each maintenance dredging event is anticipated to be approximately nine (9) to twelve (12) weeks in duration, including mobilization/demobilization, dredging, and dewatering activities. Two (2) or three (3) maintenance dredging events are anticipated to be conducted over the next ten (10)-years, with the initial dredging event proposed to be undertaken in the Fall of 2023.

Beesley's Point CDF Repairs

To facilitate dewatering operations at the Beesley's Point CDF, the following CDF repair work is proposed: in-kind repairs to an

approximately 30.0-linear foot breach in the northwestern corner of the CDF berm; installation of one (1) 18.0-foot-wide by 25.0-foot-long concrete scour pad; and installation of one (1) 24.0-inch-diameter outfall pipe. The proposed Beesley's Point CDF repair work will permanently impact a total of 0.026-acres of Waters of the U.S.

For additional project details, see the attached plans identified as: E-1 through E-15, all entitled "NAP-2023-00743-95" and all dated 28 June 2023.

MITIGATION

The applicant has stated that the proposed project has been designed to avoid and minimize adverse effects on the aquatic environment to the maximum extent practicable. Information provided in the application and on the plans indicates that compensatory mitigation is neither practicable nor feasible for the amount of dredged or fill material proposed to be discharged into waters of the United States.

CORPS EVALUATION FACTORS

The decision whether to issue a permit will be based on an evaluation of the activity's probable impact including its cumulative impacts on the public interest. The decision will reflect the national concern for both protection and utilization of important resources. The benefits which reasonably may be expected to accrue from the work must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the work will be considered including the cumulative effects thereof. Among these factors are conservation, economics, aesthetics, general environmental concerns, wetlands, cultural values, fish and wildlife values, flood hazards, flood plain values, land use, navigation, shore erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, and welfare of the people.

The evaluation of the impact of this project will also include application of the Clean Water Act Section 404(b)(1) Guidelines promulgated by the Administrator, U.S. Environmental Protection Agency if the project includes a discharge of dredge or fill material pursuant to Section 404 of the Clean Water Act.

ENDANGERED SPECIES

A preliminary review of this application indicates that species and/or their critical habitat pursuant to Section 7 of the Endangered Species Act (ESA) may be present in the action area. This office will forward this Public Notice to the U.S. Fish and Wildlife Service (USFWS) and/or National Marine Fisheries Service (NMFS) with a request for technical assistance on whether any ESA-listed species or their critical habitat may be present in the area which would be affected by the proposed activity. This office will evaluate the potential effects of the proposed actions on ESA-listed species or their critical habitat and will consult with the USFWS and/or NMFS, as appropriate. ESA

Section 7 consultation would be concluded prior to the final decision on this permit application.

CULTURAL RESOURCES AND TRIBAL TRUST

The District's Cultural Resource Specialist and Tribal Liaison is currently reviewing the proposed permit action for potential impacts to Historic Properties eligible for or listed on the National Register of Historic Places and for potential issues concerning the Tribes. A determination of effects will be coordinated with the State Historic Preservation Office, the Tribes and other consulting parties as necessary.

ESSENTIAL FISH HABITAT

The Magnuson-Stevens Fishery Conservation and Management Act (MSA) requires all federal agencies to consult with the National Marine Fisheries Service (NMFS) for all actions, or proposed actions, permitted, funded, or undertaken by the agency that may adversely affect Essential Fish Habitat (EFH). A preliminary review of this application indicates that EFH is present within the project area. This office will evaluate the potential effects of the proposed actions on EFH and will consult with NMFS, as appropriate. Consultation would be concluded prior to the final decision on this permit application.

WATER QUALITY CERTIFICATE

In accordance with Section 401 of the Clean Water Act, a Water Quality Certificate (WQC) is required from the State government in which the work is located. Any comments concerning the work described above which relate to Water Quality considerations should be sent to this office with a copy to the State.

COASTAL ZONE MANAGEMENT ACT

In accordance with Section 307(c) of the Coastal Zone Management Act of 1972, applicants for Federal Licenses or Permits to conduct an activity affecting land or water uses in a State's coastal zone must provide certification that the activity complies with the State's Coastal Zone Management (CZM) Program. The applicant has stated that the proposed activity complies with and will be conducted in a manner that is consistent with the approved State CZM Program. No permit will be issued until the State has concurred with the applicant's certification or has waived its right to do so. Comments concerning the impact on the State's coastal zone should be sent to this office with a copy to the State's CZM office.

SUBMISSION OF COMMENTS AND PUBLIC HEARING REQUEST

Any comments received will be considered by this office to determine whether to issue, modify, condition, or deny a permit for this proposed project. To make this decision, comments are used to assess the probable impact on the public interest.

Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

Comments on the proposed work must be submitted, in writing, within the comment period indicated in the header above. Any person may request, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for a public hearing must be in writing and state the reasons for holding a public hearing.

Please provide any comments, request for a public hearing, or requests for additional information to the Regulatory Project Manager indicated above. All Public Notices are posted on our website at:

<https://www.nap.usace.army.mil/Missions/Regulatory/Public-Notices/>

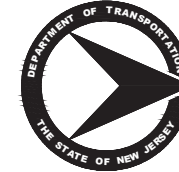
FOR: Todd A. Schaible
Chief, Regulatory Branch

State of New Jersey
Department of Transportation



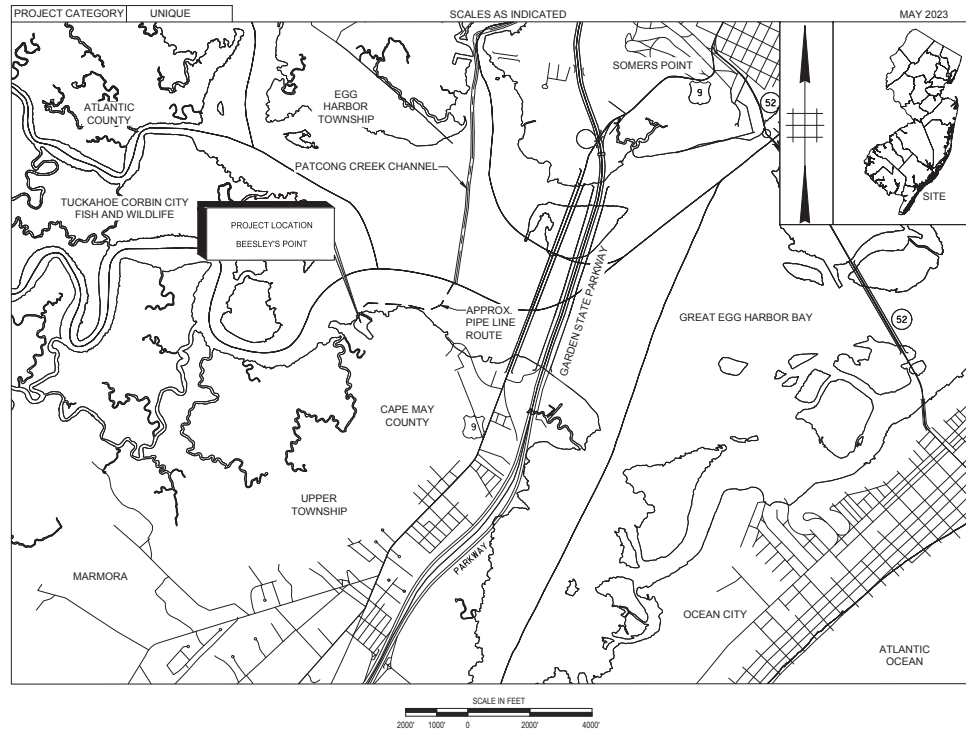
PLANS OF

MAINTENANCE DREDGING AND CHANNEL
IMPROVEMENTS FOR PATCONG CREEK CHANNEL
WITH PLACEMENT AT BEESLEYS POINT DREDGED
MATERIAL DEWATERING SITE
PRELIMINARY DESIGN AND
ENVIRONMENTAL PERMITTING



INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
1	KEY SHEET
2 - 5	PATCONG CREEK CHANNEL ARRANGEMENT & GEOMETRY PLAN
6	PATCONG CREEK CHANNEL GEOMETRY & SAMPLING LOCATION COORDINATE TABLES
7 - 10	PATCONG CREEK CHANNEL BATHYMETRY PLAN
11	PATCONG CREEK CHANNEL PIPELINE ROUTE PLAN
12	USACE PERMIT PLAN
13	BEESLEYS POINT PLACEMENT SITE CONCEPTUAL GEOTEXTILE TUBE LAYOUT
14	BEESLEYS POINT DREDGED MATERIAL DEWATERING SITE CROSS SECTIONS
15	SOIL EROSION & SEDIMENT CONTROL NOTES AND DETAILS

EGG HARBOR TOWNSHIP, CITY OF LINWOOD, CITY OF SOMERS POINT, CITY OF CORBIN,
ATLANTIC COUNTY AND UPPER TOWNSHIP, COUNTY OF CAPE MAY, NEW JERSEY



STANDARD ROADWAY CONSTRUCTION/TRAFFIC
CONTROL/BRIDGE CONSTRUCTION DETAILS BOOKLET,
2016 AND STANDARD ELECTRICAL DETAILS BOOKLET,
2016 ARE APPLICABLE TO THIS PROJECT EXCEPT FOR
THOSE DETAILS CONTAINED HEREIN.

MID-POINT OF PROJECT
LATITUDE: 39° 31' 13" N
LONGITUDE: 75° 29' 52" W

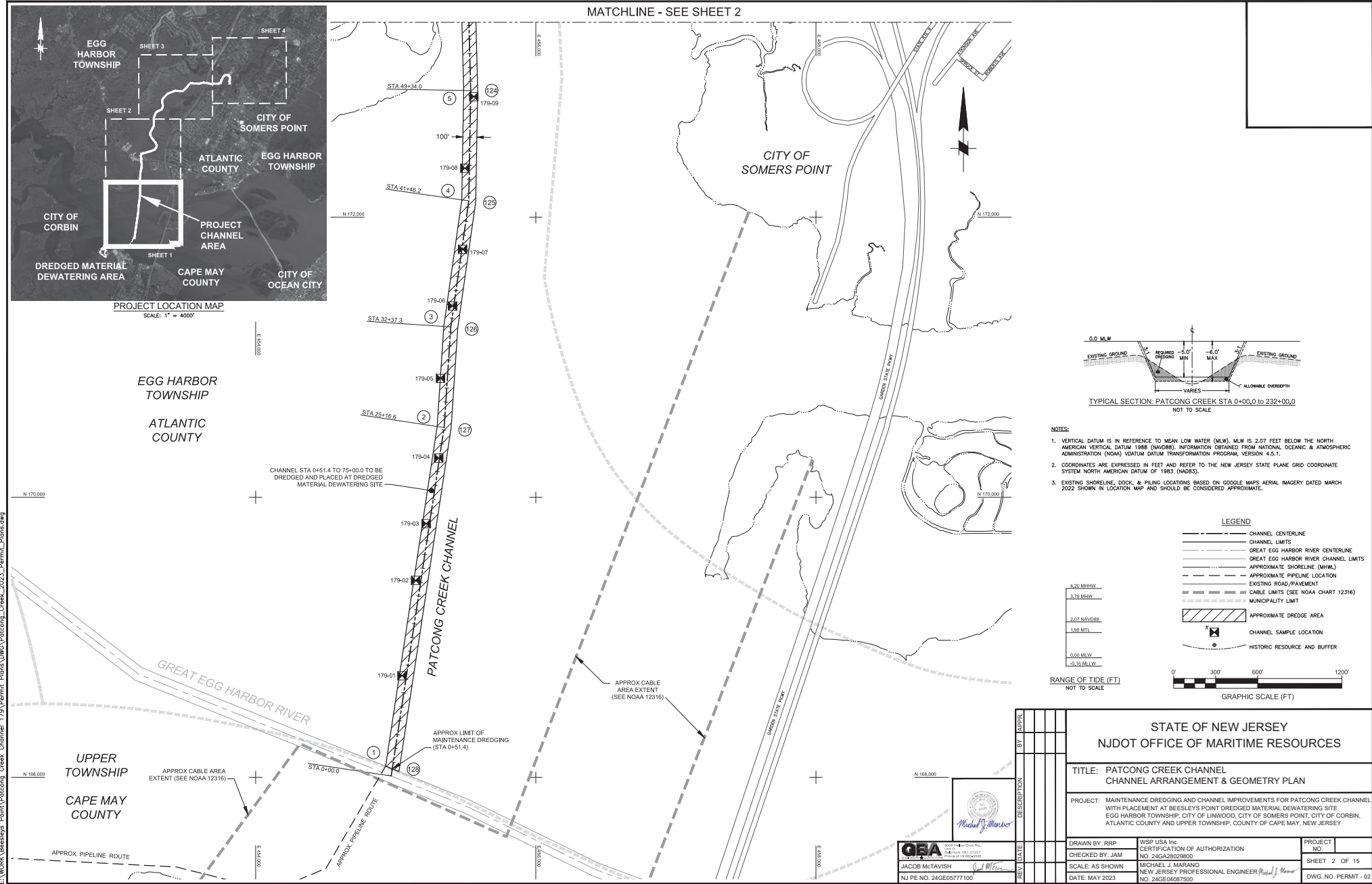
**PERMITS PLANS
NOT FOR CONSTRUCTION**

KEY MAP

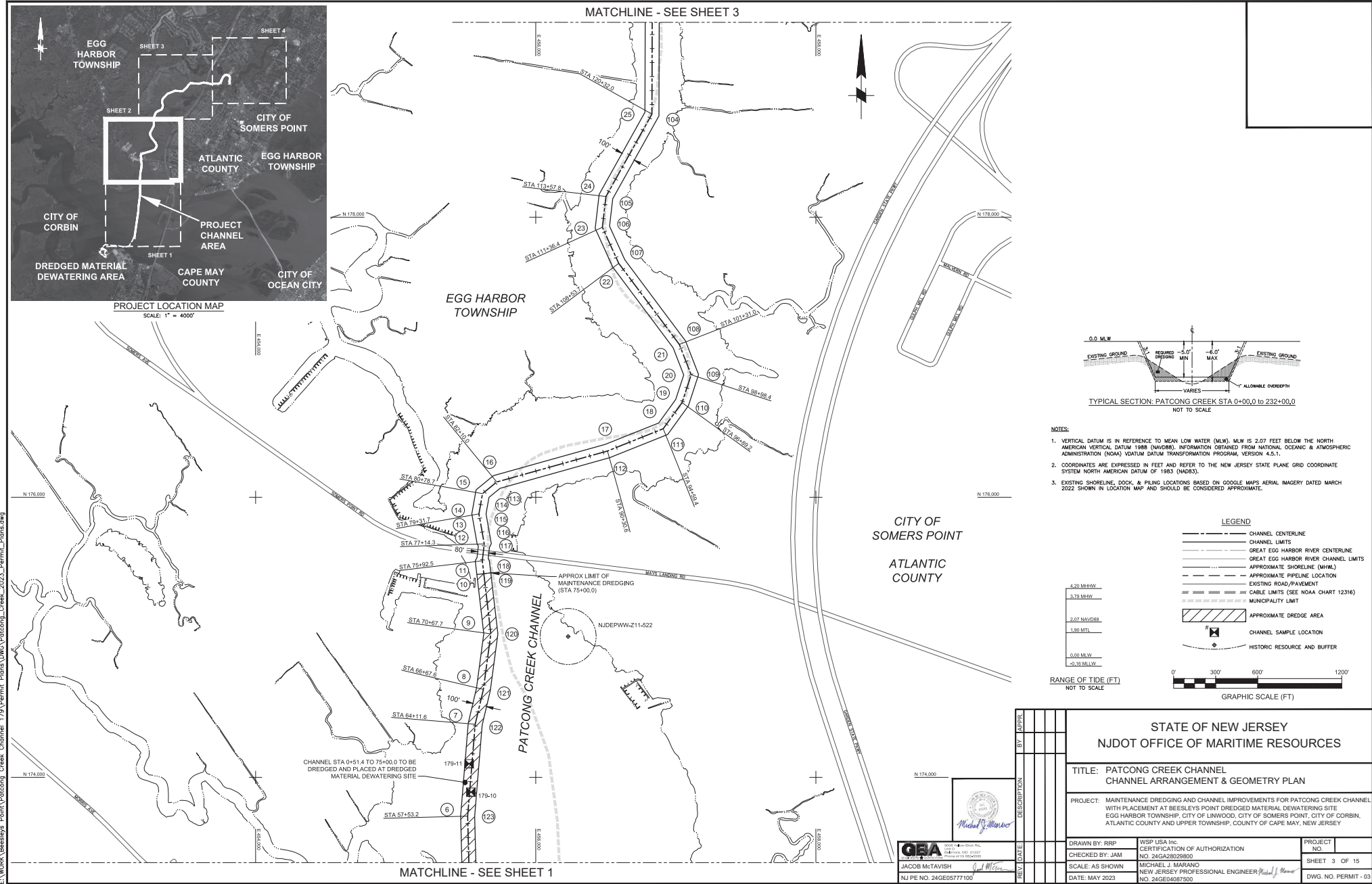
2019 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION TO GOVERN

"CHANGES MADE TO THESE PLANS SINCE SIGNATURE BY
THE CONSULTANT MAY BE DETERMINED BY COMPARISON
OF THE PLANS FILED AT THE DEPARTMENT WITH THOSE
FILED AT THE OFFICE OF THE CONSULTANT."

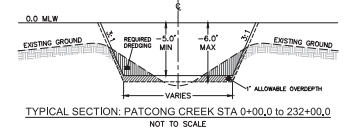
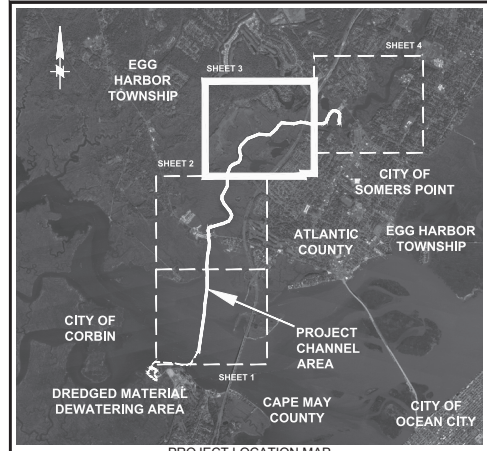
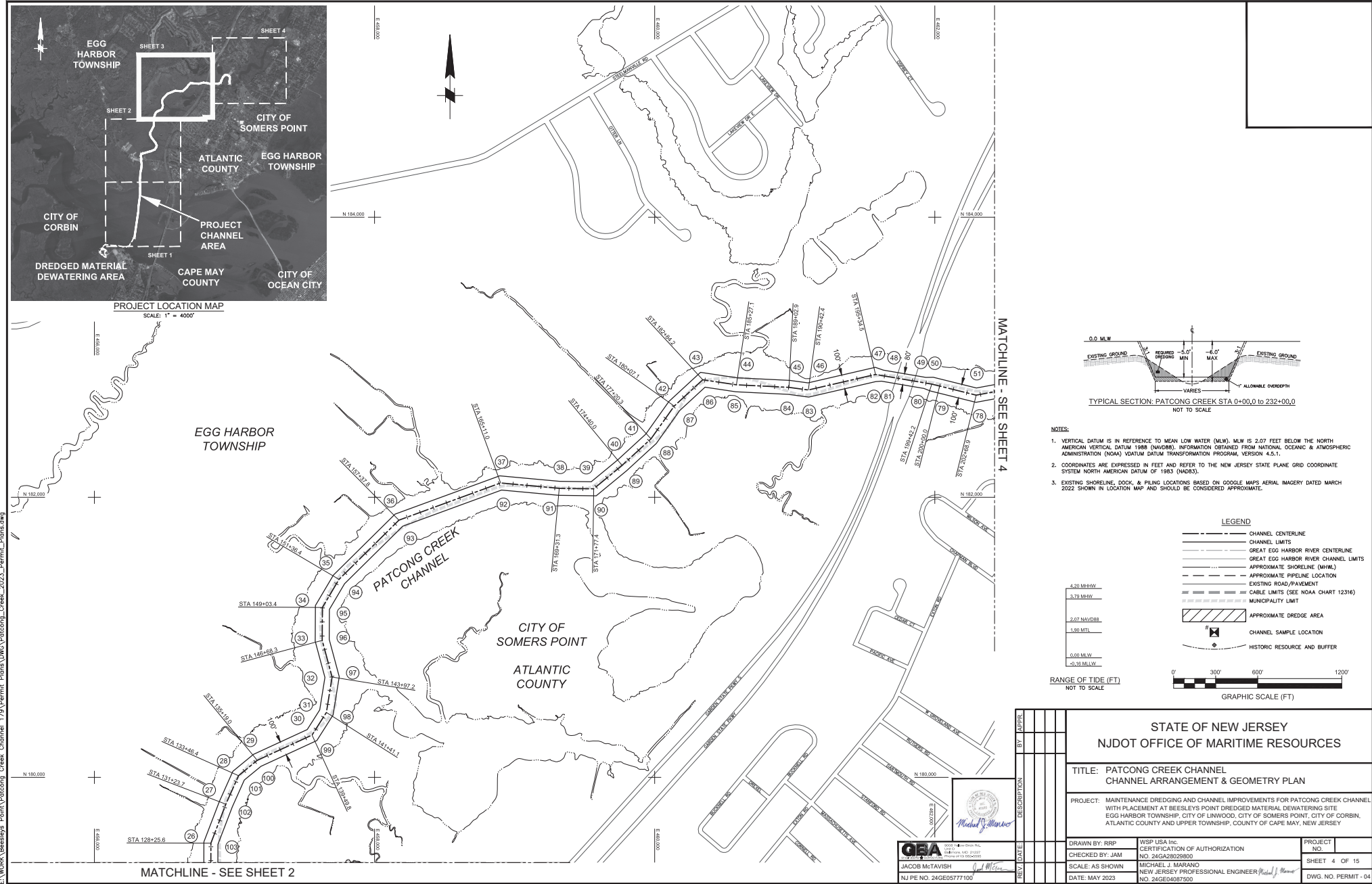
WSP USA INC. Michael J. Marano
CERTIFICATE OF AUTHORIZATION NO. 24GA28029800
MICHAEL J. MARANO
NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE04087500



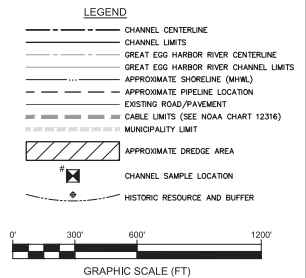
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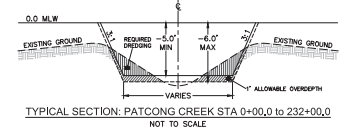
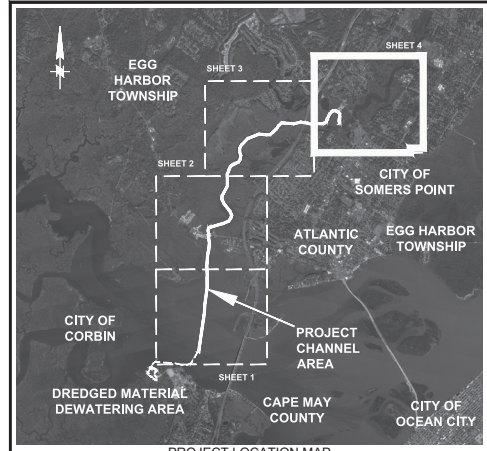
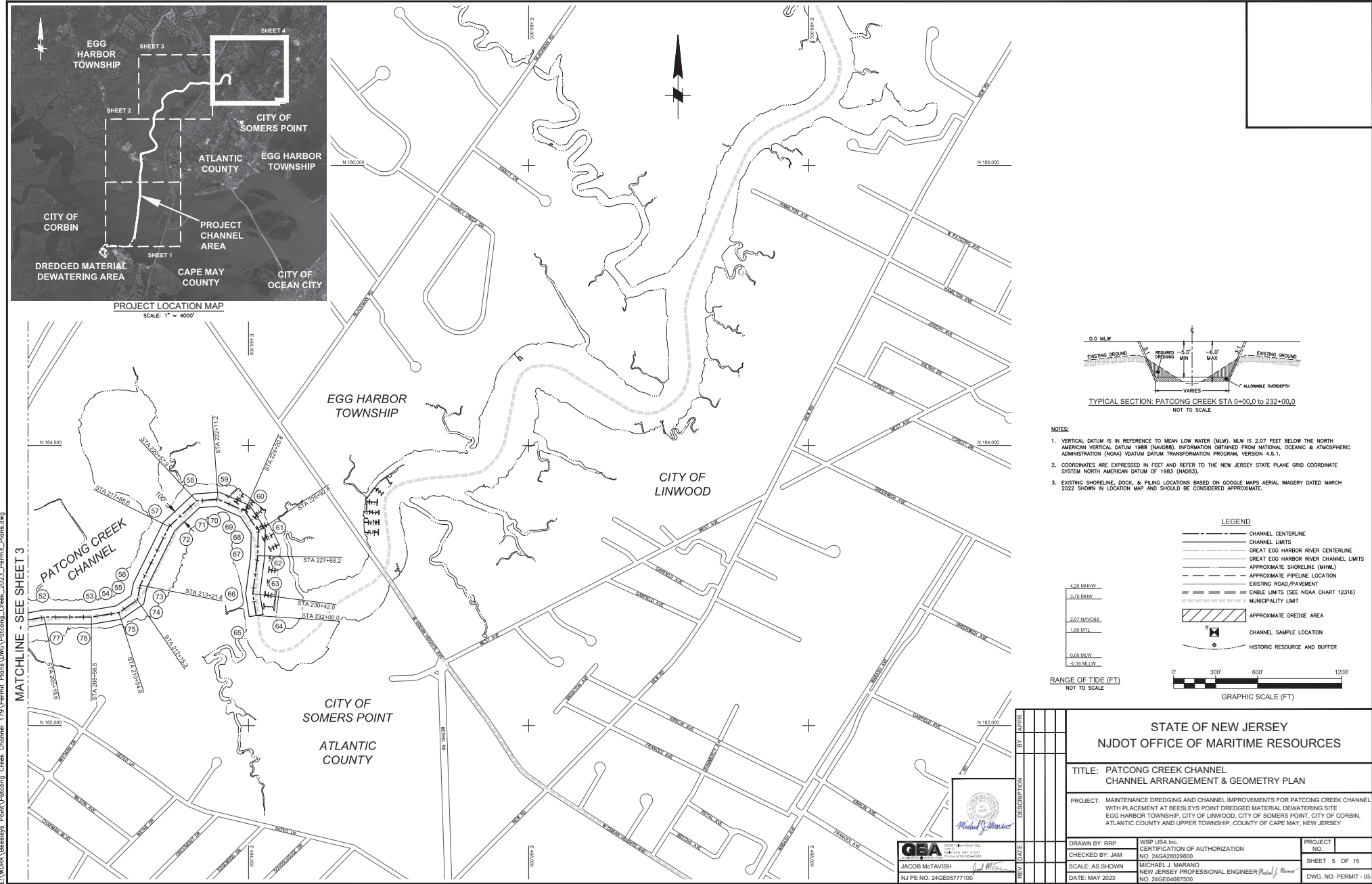
- NOTES:
1. VERTICAL DATUM IS IN REFERENCE TO MEAN LOW WATER (MLW). MLW IS 2.07 FEET BELOW THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88). INFORMATION OBTAINED FROM NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION (NOAA) DATUM TRANSFORMATION PROGRAM, VERSION 4.5.1.
 2. COORDINATES ARE EXPRESSED IN FEET AND REFER TO THE NEW JERSEY STATE PLANE GRID COORDINATE SYSTEM NORTH AMERICAN DATUM OF 1983 (NAD83).
 3. EXISTING SHORELINE, DOCK, & PILING LOCATIONS BASED ON GOOGLE MAPS AERIAL IMAGERY DATED MARCH 2022 SHOWN IN LOCATION MAP AND SHOULD BE CONSIDERED APPROXIMATE.



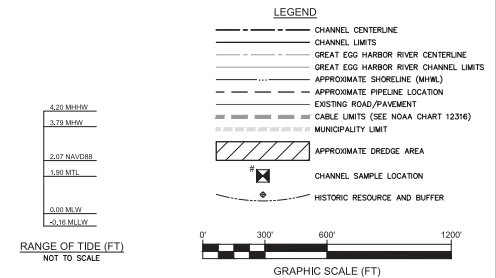
STATE OF NEW JERSEY NJDOT OFFICE OF MARITIME RESOURCES	
TITLE: PATCONG CREEK CHANNEL CHANNEL ARRANGEMENT & GEOMETRY PLAN	
PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR PATCONG CREEK CHANNEL WITH PLACEMENT AT BEESLEY'S POINT DREDGED MATERIAL DEWATERING SITE EGG HARBOR TOWNSHIP, CITY OF LINWOOD, CITY OF SOMERS POINT, CITY OF CORBIN, ATLANTIC COUNTY AND UPPER TOWNSHIP, COUNTY OF CAPE MAY, NEW JERSEY	
DRAWN BY: RSP	WSP USA INC. CERTIFICATION OF AUTHORIZATION NO. 24GA28028800
CHECKED BY: JAM	MICHAEL J. MARANO NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE0487500
SCALE: AS SHOWN	DATE: MAY 2023
PROJECT NO.	SHEET 4 OF 15
DWG. NO. PERMIT - 04	

G&B
JACOB McTAVISH
NJ PE NO. 24GE05777100

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- NOTES:**
1. VERTICAL DATUM IS IN REFERENCE TO MEAN LOW WATER (MLW). MLW IS 2.07 FEET BELOW THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88). INFORMATION OBTAINED FROM NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION (NOAA) DATUM TRANSFORMATION PROGRAM, VERSION 4.5.1.
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BY		APPROVED	
DESCRIPTION		DATE	
REV		DATE	
DRAWN BY: RRP		WSP USA INC.	
CHECKED BY: JAM		CERTIFICATION OF AUTHORIZATION	
SCALE: AS SHOWN		MICHAEL J. MARANO	
DATE: MAY 2023		NEW JERSEY PROFESSIONAL ENGINEER	
PROJECT NO.		SHEET 5 OF 15	
DWG. NO. PERMIT - 05			

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E-6 NAP-2023-00743-95 28 June 2023

PATCONG CREEK CENTERLINE COORDINATES		
STATION	NORTHING	EASTING
0+00.00	168,098.5	454,967.6
25+16.65	170,497.7	455,345.3
32+37.27	171,216.7	455,380.2
41+46.16	172,116.5	455,321.3
49+33.87	172,904.2	455,535.1
57+53.18	173,723.1	455,913.8
64+11.58	174,379.3	455,967.7
66+57.56	174,628.5	455,626.2
70+47.70	175,025.1	455,679.3
75+92.49	175,546.4	455,618.4
77+14.26	175,667.4	455,632.2
79+31.70	175,881.5	455,594.3
80+78.68	176,026.2	455,619.9
82+09.96	176,109.3	455,721.5
90+30.57	176,330.4	456,511.8
94+59.36	176,489.6	456,909.9
96+89.19	176,676.0	457,044.4
98+98.43	176,874.9	457,105.5
101+31.02	177,091.7	457,025.2
108+53.69	177,670.5	456,592.5
111+36.45	177,927.9	456,475.6
113+57.83	178,147.8	456,501.2
120+32.03	178,736.7	456,829.6
128+25.62	179,530.3	456,831.8
131+23.65	179,806.6	456,938.4
133+46.45	180,012.0	457,025.3
135+19.04	180,121.6	457,162.5
138+49.81	180,302.0	457,553.7
141+41.13	180,463.5	457,666.4
143+07.23	180,716.4	457,696.9
146+06.34	180,975.2	457,626.5
149+03.43	181,213.3	457,627.8
151+26.39	181,413.8	457,746.3
151+37.77	181,636.6	458,174.0
155+11.01	182,102.5	458,990.1
159+31.33	182,064.0	459,318.7
171+77.42	182,969.8	459,564.7
174+40.01	182,227.9	459,767.3
177+20.34	182,417.5	459,973.8
180+07.15	182,651.6	460,139.7
182+24.20	182,839.3	460,343.3
185+27.15	182,803.4	460,583.6
189+22.95	182,785.1	460,958.9
190+42.36	182,766.3	461,097.1
195+34.53	182,877.1	461,576.6
199+42.23	182,808.2	461,978.4
202+06.87	182,729.4	462,295.4
205+19.64	182,775.1	462,542.0
208+56.46	182,774.2	462,878.9
210+54.91	182,806.7	463,074.6
212+15.28	182,897.5	463,206.8
213+21.82	183,002.1	463,227.0
217+88.60	183,420.9	463,433.1
220+57.87	183,604.8	463,629.8
222+11.20	183,615.7	463,782.8
224+20.82	183,531.7	463,974.9
225+52.83	183,388.2	464,069.6
227+08.18	183,212.8	464,066.0
230+42.03	182,941.3	464,030.8
232+00.00	182,785.2	464,055.1

PATCONG CREEK COORDINATES		
POINT	NORTHING	EASTING
1	168,079.6	454,937.8
2	170,503.1	455,296.6
3	171,221.9	455,343.4
4	172,120.5	455,471.4
5	172,904.0	455,485.1
6	173,724.5	455,463.8
7	174,387.1	455,518.1
8	174,637.6	455,576.9
9	175,025.6	455,638.9
10	175,546.3	455,568.1
11	175,570.8	455,581.0
12	175,652.0	455,590.2
13	175,665.8	455,581.7
14	175,881.5	455,543.5
15	176,053.2	455,573.9
16	176,154.6	455,698.0
17	176,377.8	456,496.8
18	176,530.7	456,877.9
19	176,690.0	456,999.3
20	176,873.4	457,056.4
21	177,067.2	456,981.1
22	177,644.9	456,549.2
23	177,919.9	456,424.3
24	178,163.5	456,452.7
25	178,749.7	456,779.6
26	179,539.6	456,781.8
27	179,827.7	456,892.2
28	180,043.1	456,988.4
29	180,164.3	457,136.8
30	180,341.3	457,219.4
31	180,489.9	457,608.6
32	180,713.7	457,646.6
33	180,971.7	457,576.4
34	181,227.1	457,577.9
35	181,444.8	457,706.8
36	181,579.9	458,146.6
37	182,153.3	458,893.5
38	182,114.0	459,321.3
39	182,111.0	459,547.0
40	182,265.6	459,734.5
41	182,430.8	459,936.0
42	182,684.7	460,101.9
43	182,892.3	460,327.0
44	182,853.2	460,588.5
45	182,834.9	460,963.5
46	182,817.1	461,094.7
47	182,826.1	461,575.1
48	182,908.1	461,632.6
49	182,856.1	461,935.9
50	182,857.2	461,988.7
51	182,780.6	462,297.0
52	182,825.2	462,537.5
53	182,824.2	462,874.8
54	182,854.2	463,055.4
55	182,827.1	463,161.6
56	183,018.2	463,179.2
57	183,451.2	463,392.3
58	183,653.4	463,608.6
59	183,666.4	463,791.5
60	183,571.6	464,008.4
61	183,402.7	464,119.9
62	183,209.1	464,115.9
63	182,941.9	464,081.3
64	182,792.9	464,104.5
65	182,777.5	464,095.7
66	182,540.0	463,980.3
67	183,216.6	464,016.1
68	183,373.8	464,019.3
69	183,491.8	463,941.3
70	183,564.9	463,774.0


PATCONG CREEK COORDINATES (CONT.)		
POINT	NORTHING	EASTING
71	183,566.2	463,651.0
72	183,390.6	463,474.0
73	182,986.0	463,274.8
74	182,867.9	463,252.0
75	182,759.2	463,093.7
76	182,724.2	462,882.9
77	182,725.1	462,546.5
78	182,678.3	462,293.9
79	182,759.3	461,968.2
80	182,777.3	461,922.4
81	182,829.2	461,619.1
82	182,826.1	461,578.1
83	182,715.5	461,099.4
84	182,735.2	460,954.3
85	182,753.6	460,678.6
86	182,786.3	460,359.6
87	182,618.3	460,177.4
88	182,384.3	460,011.5
89	182,190.2	459,800.1
90	182,010.6	459,582.4
91	182,014.0	459,316.0
92	182,051.6	459,906.7
93	181,793.4	458,201.4
94	181,382.8	457,786.1
95	181,199.5	457,677.7
96	180,984.7	457,676.5
97	180,719.0	457,747.9
98	180,445.4	457,704.1
99	180,262.8	457,688.0
100	180,078.9	457,689.3
101	179,989.8	457,570.1
102	179,789.4	456,984.6
103	179,520.9	456,891.7
104	179,233.6	456,879.5
105	178,122.2	456,549.7
106	177,936.0	456,526.9
107	177,696.1	456,638.8
108	177,118.2	457,069.3
109	176,876.3	457,162.5
110	176,653.1	457,089.5
111	176,448.6	456,942.0
112	176,283.0	456,527.9
113	176,064.0	456,745.1
114	175,999.2	456,665.9
115	175,881.5	456,645.1
116	175,668.9	456,682.7
117	175,643.0	456,669.7
118	175,581.7	456,660.5
119	175,546.4	456,668.8
120	175,024.7	456,729.7
121	174,619.5	456,675.4
122	174,371.5	456,617.2
123	173,721.7	456,563.9
124	172,904.4	456,588.2
125	172,112.5	456,571.2
126	171,211.5	456,442.9
127	170,492.3	456,395.1
128	169,041.1	456,022.9

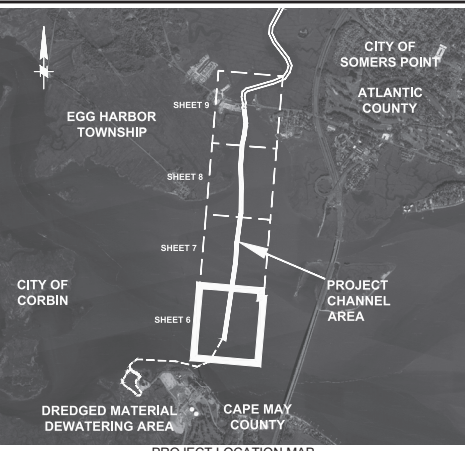
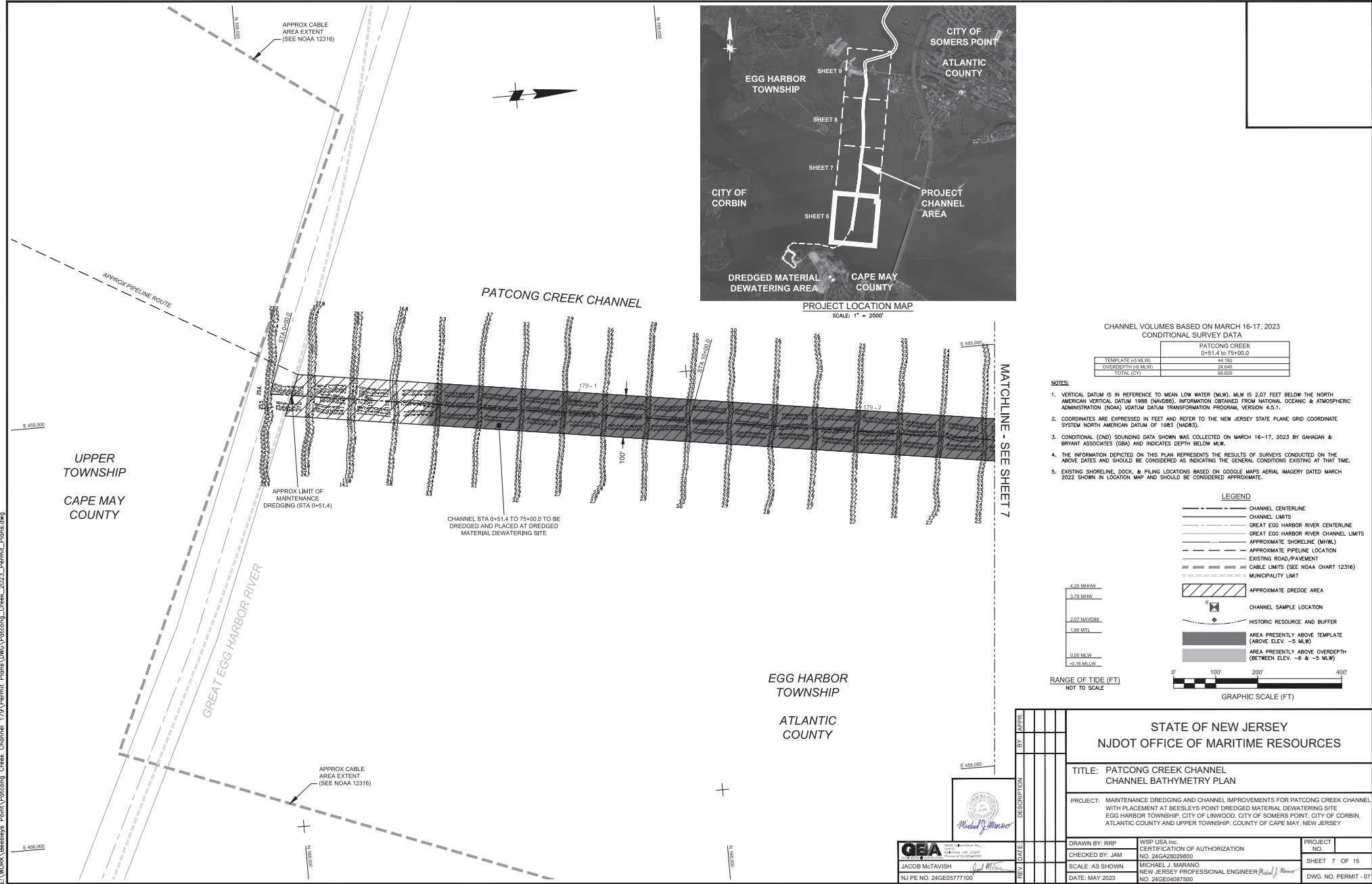
PATCONG CREEK SAMPLE LOCATION COORDINATES		
BORING	NORTHING	EASTING
179-01	168,725.4	455,044.8
179-02	169,406.7	455,141.7
179-03	169,811.8	455,216.8
179-04	170,280.2	455,306.9
179-05	170,849.3	455,320.1
179-06	171,365.9	455,405.2
179-07	171,770.9	455,477.2
179-08	172,349.7	455,493.7
179-09	172,861.0	455,587.5
179-10	173,894.4	456,537.1
179-11	174,097.0	456,524.4

PATCONG CREEK HISTORIC RESOURCE COORDINATES			
POINT	NORTHING	EASTING	BUFFER RADIUS
NJDEPWW-211-522	175,086.0	460,231.1	200'

NOTES:

- COORDINATES ARE EXPRESSED IN FEET AND REFER TO THE NEW JERSEY STATE PLANE GRID COORDINATE SYSTEM NORTH AMERICAN DATUM OF 1983 (NAD83).

		STATE OF NEW JERSEY NJDOT OFFICE OF MARITIME RESOURCES	
		TITLE: PATCONG CREEK CHANNEL GEOMETRY & SAMPLING LOCATION COORDINATE TABLES	
PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR PATCONG CREEK CHANNEL WITH PLACEMENT AT BEESLEY'S POINT DREDGED MATERIAL DETERIORATING SITE EGG HARBOR TOWNSHIP, CITY OF LINWOOD, CITY OF SOMERS POINT, CITY OF CORBIN, ATLANTIC COUNTY AND UPPER TOWNSHIP, COUNTY OF CAPE MAY, NEW JERSEY		DRAWN BY: RRP CHECKED BY: JAM SCALE: AS SHOWN DATE: MAY 2023	
WSP USA, Inc. CERTIFICATION OF AUTHORIZATION NO. 24GA28028800 MICHAEL J. MARANO NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE04087500		PROJECT NO. SHEET 6 OF 15 DWG. NO. PERMIT - 06	



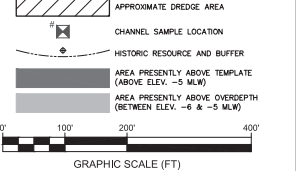
CHANNEL VOLUMES BASED ON MARCH 16-17, 2023
CONDITIONAL SURVEY DATA

PATCONG CREEK	
DATE	04/14 TO 04/15/2023
TEMPERATURE (°F)	44.180
OVERDEPTH (IN)	21.600
TOTAL (CY)	68,820

- NOTES:
1. VERTICAL DATUM IS IN REFERENCE TO MEAN LOW WATER (MLW). MLW IS 2.07 FEET BELOW THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88). INFORMATION OBTAINED FROM NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION (NOAA) VERTICAL DATUM TRANSFORMATION PROGRAM, VERSION 4.5.1.
 2. COORDINATES ARE EXPRESSED IN FEET AND REFER TO THE NEW JERSEY STATE PLANE GRID COORDINATE SYSTEM NORTH AMERICAN DATUM OF 1983 (NAD83).
 3. CONDITIONAL (CND) SOUNDING DATA SHOWN WAS COLLECTED ON MARCH 16-17, 2023 BY GAHAGAN & BRYANT ASSOCIATES (GBA) AND INDICATES DEPTH BELOW MLW.
 4. THE INFORMATION DEPICTED ON THIS PLAN REPRESENTS THE RESULTS OF SURVEYS CONDUCTED ON THE ABOVE DATES AND SHOULD BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.
 5. EXISTING SHORELINE, DOCK, & PILING LOCATIONS BASED ON GOOGLE MAPS AERIAL IMAGERY DATED MARCH 2022 SHOWN IN LOCATION MAP AND SHOULD BE CONSIDERED APPROXIMATE.

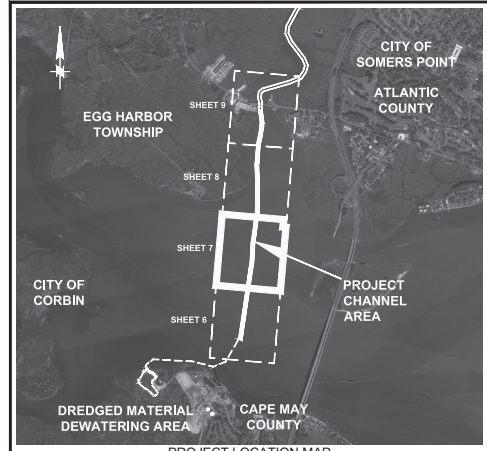
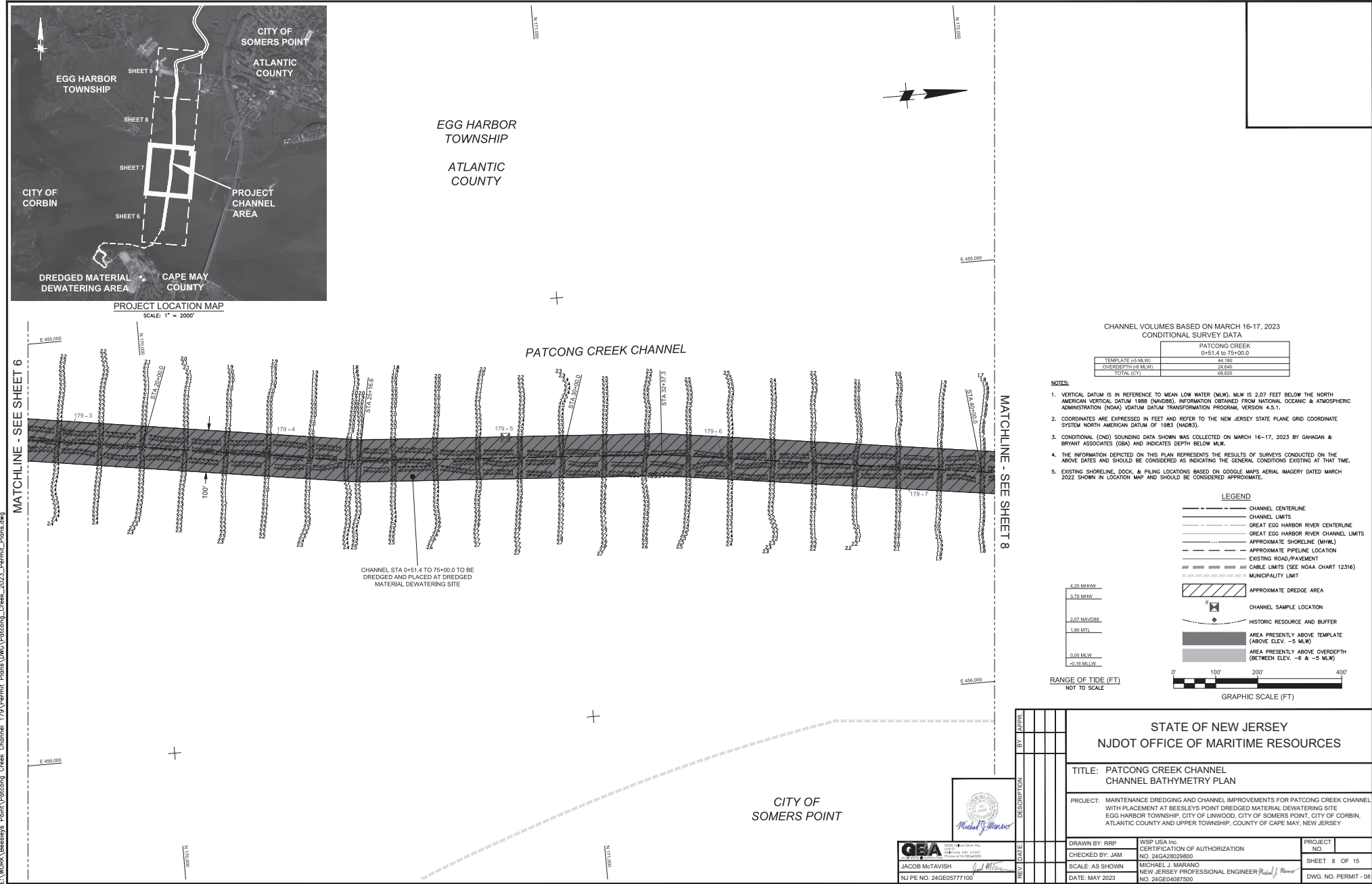
LEGEND

- CHANNEL CENTERLINE
- CHANNEL LIMITS
- GREAT EGG HARBOR RIVER CENTERLINE
- GREAT EGG HARBOR RIVER CHANNEL LIMITS
- APPROXIMATE SHORELINE (MHW)
- APPROXIMATE PIPELINE LOCATION
- EXISTING ROAD/PAVEMENT
- CABLE LIMITS (SEE NOAA CHART 12316)
- MUNICIPALITY LIMIT



STATE OF NEW JERSEY NJDOT OFFICE OF MARITIME RESOURCES	
TITLE: PATCONG CREEK CHANNEL CHANNEL BATHYMETRY PLAN	
PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR PATCONG CREEK CHANNEL WITH PLACEMENT AT BEESLEY'S POINT DREDGED MATERIAL DEWATERING SITE EGG HARBOR TOWNSHIP, CITY OF LINWOOD, CITY OF SOMERS POINT, CITY OF CORBIN, ATLANTIC COUNTY AND UPPER TOWNSHIP, COUNTY OF CAPE MAY, NEW JERSEY	
DRAWN BY: RRP	WSP USA Inc. CERTIFICATION OF AUTHORIZATION NO. 24GA28028800
CHECKED BY: JAM	MICHAEL J. MARANO NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE0487500
SCALE: AS SHOWN	DATE: MAY 2023
PROJECT NO.	SHEET 7 OF 15
DWG. NO. PERMIT - 07	

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CHANNEL VOLUMES BASED ON MARCH 16-17, 2023
CONDITIONAL SURVEY DATA

PATCONG CREEK	
0+51.4 TO 75+00.0	
TEMPERATURE (C/M.W.)	44.180
OVERDEPTH (M.W.)	24.620
TOTAL (CY)	68.820

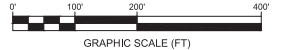
- NOTES:
1. VERTICAL DATUM IS IN REFERENCE TO MEAN LOW WATER (MLW). MLW IS 2.07 FEET BELOW THE NORTH AMERICAN DATUM 1988 (NAVD88). INFORMATION OBTAINED FROM NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION (NOAA) VERTUM DATUM TRANSFORMATION PROGRAM, VERSION 4.5.1.
 2. COORDINATES ARE EXPRESSED IN FEET AND REFER TO THE NEW JERSEY STATE PLANE GRID COORDINATE SYSTEM NORTH AMERICAN DATUM OF 1983 (NAD83).
 3. CONDITIONAL (CND) SOUNDING DATA SHOWN WAS COLLECTED ON MARCH 16-17, 2023 BY GAHAGAN & BRYANT ASSOCIATES (GBA) AND INDICATES DEPTH BELOW MLW.
 4. THE INFORMATION DEPICTED ON THIS PLAN REPRESENTS THE RESULTS OF SURVEYS CONDUCTED ON THE ABOVE DATES AND SHOULD BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.
 5. EXISTING SHORELINE, DOCK, & PILING LOCATIONS BASED ON GOOGLE MAPS AERIAL IMAGERY DATED MARCH 2022 SHOWN IN LOCATION MAP AND SHOULD BE CONSIDERED APPROXIMATE.

LEGEND

- CHANNEL CENTERLINE
- CHANNEL LIMITS
- GREAT EGG HARBOR RIVER CENTERLINE
- GREAT EGG HARBOR RIVER CHANNEL LIMITS
- APPROXIMATE SHORELINE (MHWL)
- APPROXIMATE PIPELINE LOCATION
- EXISTING ROAD/PAVEMENT
- CABLE LIMITS (SEE NOAA CHART 12316)
- MUNICIPALITY LIMIT
- APPROXIMATE DREDGE AREA

4.20 MHW
3.79 MHW
2.07 NAVD88
1.90 MTL
0.00 MLW
-0.10 MLW

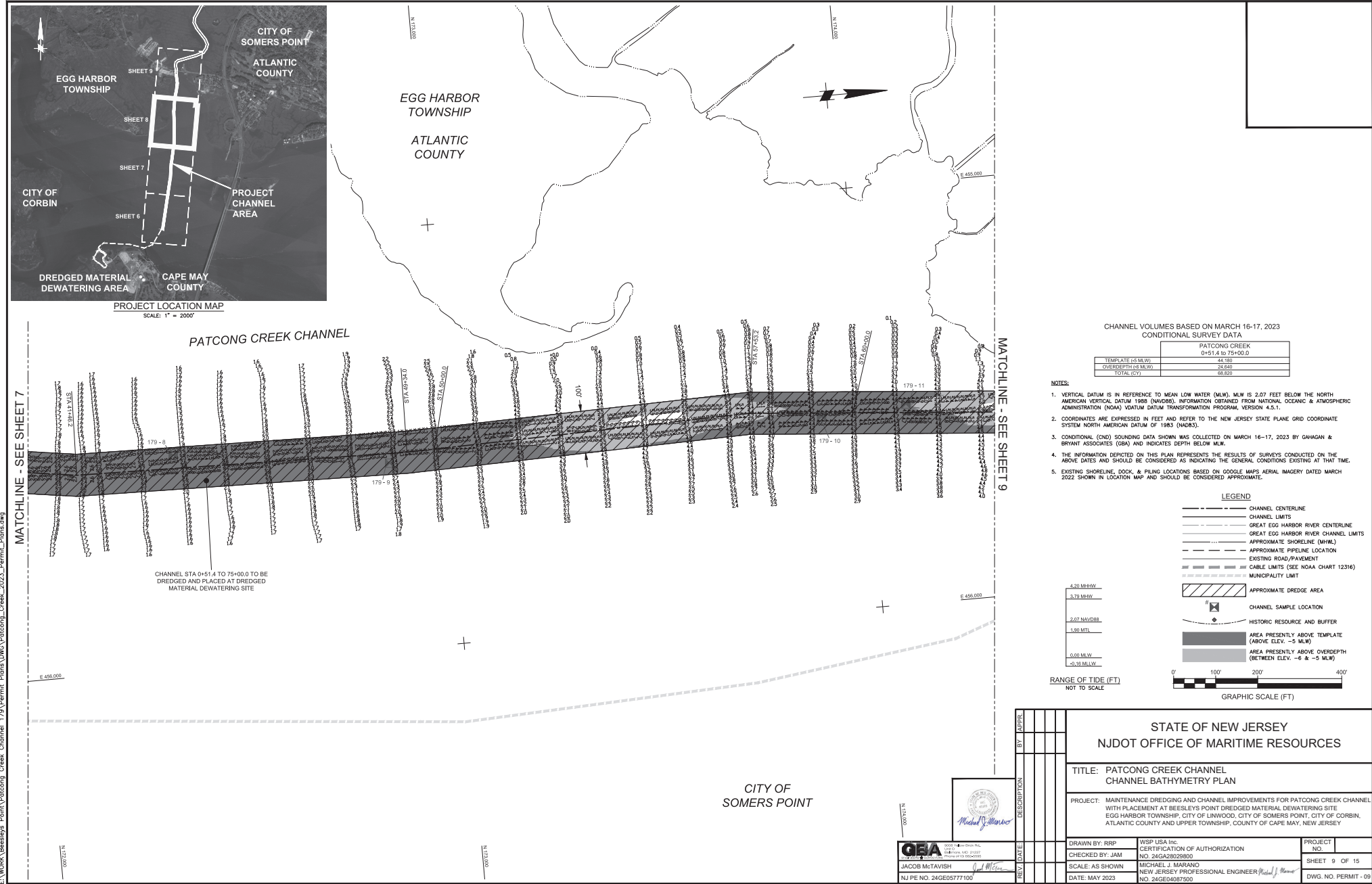
RANGE OF TIDE (FT)
NOT TO SCALE



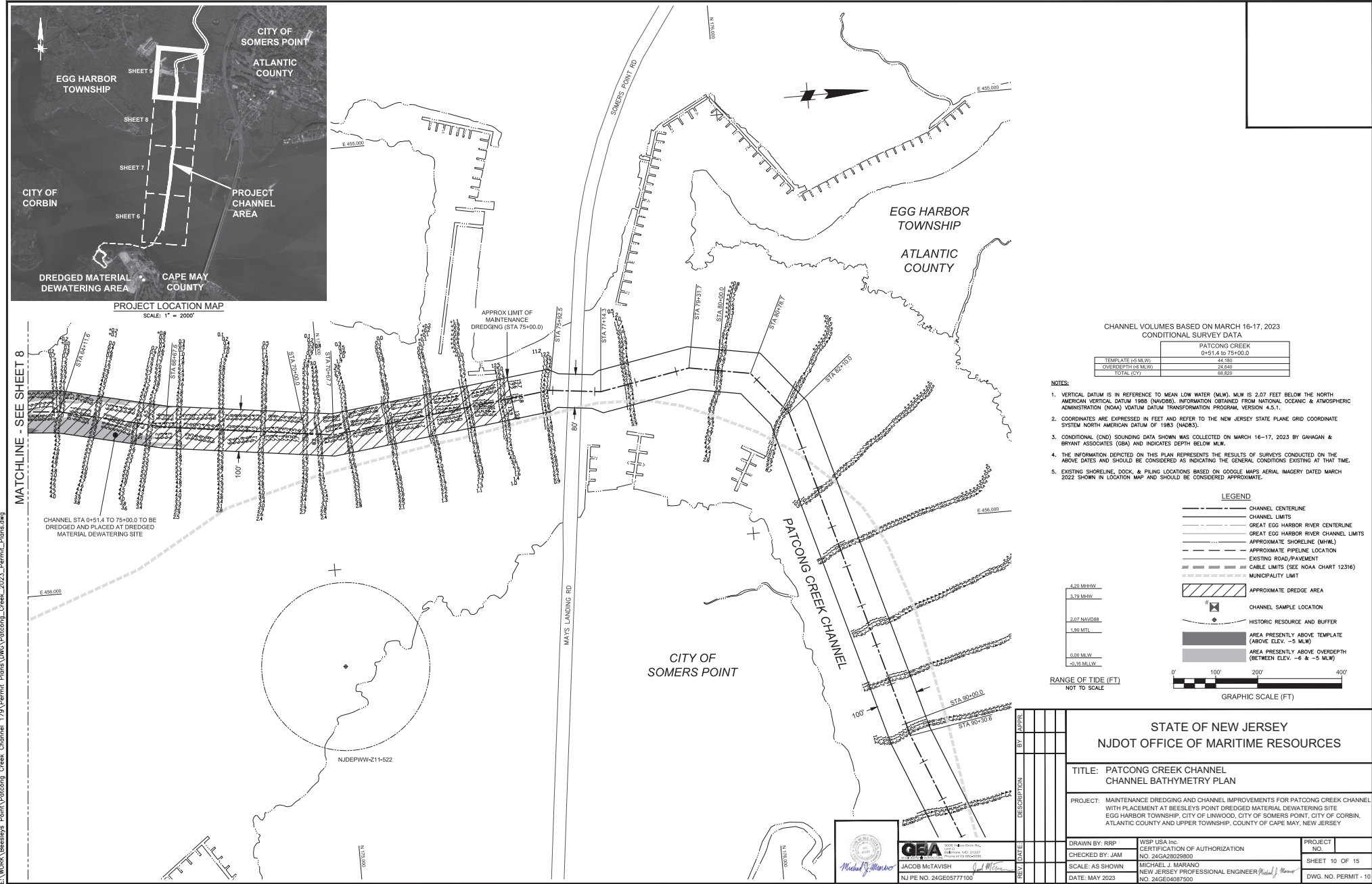
STATE OF NEW JERSEY NJDOT OFFICE OF MARITIME RESOURCES	
TITLE: PATCONG CREEK CHANNEL CHANNEL BATHYMETRY PLAN	
PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR PATCONG CREEK CHANNEL WITH PLACEMENT AT BEESLEY'S POINT DREDGED MATERIAL DEWATERING SITE EGG HARBOR TOWNSHIP, CITY OF LINWOOD, CITY OF SOMERS POINT, CITY OF CORBIN, ATLANTIC COUNTY AND UPPER TOWNSHIP, COUNTY OF CAPE MAY, NEW JERSEY	
DRAWN BY: RRP	WSP USA Inc. CERTIFICATION OF AUTHORIZATION NO. 24GA28028800
CHECKED BY: JAM	MICHAEL J. MARANO NEW JERSEY PROFESSIONAL ENGINEER
SCALE: AS SHOWN	DATE: MAY 2023
NO. 24GE0487500	PROJECT NO. 24GE0487500
SHEET 8 OF 15	DWG. NO. PERMIT - 08

JACOB McTAVISH
NJ PE NO. 24GE05777100

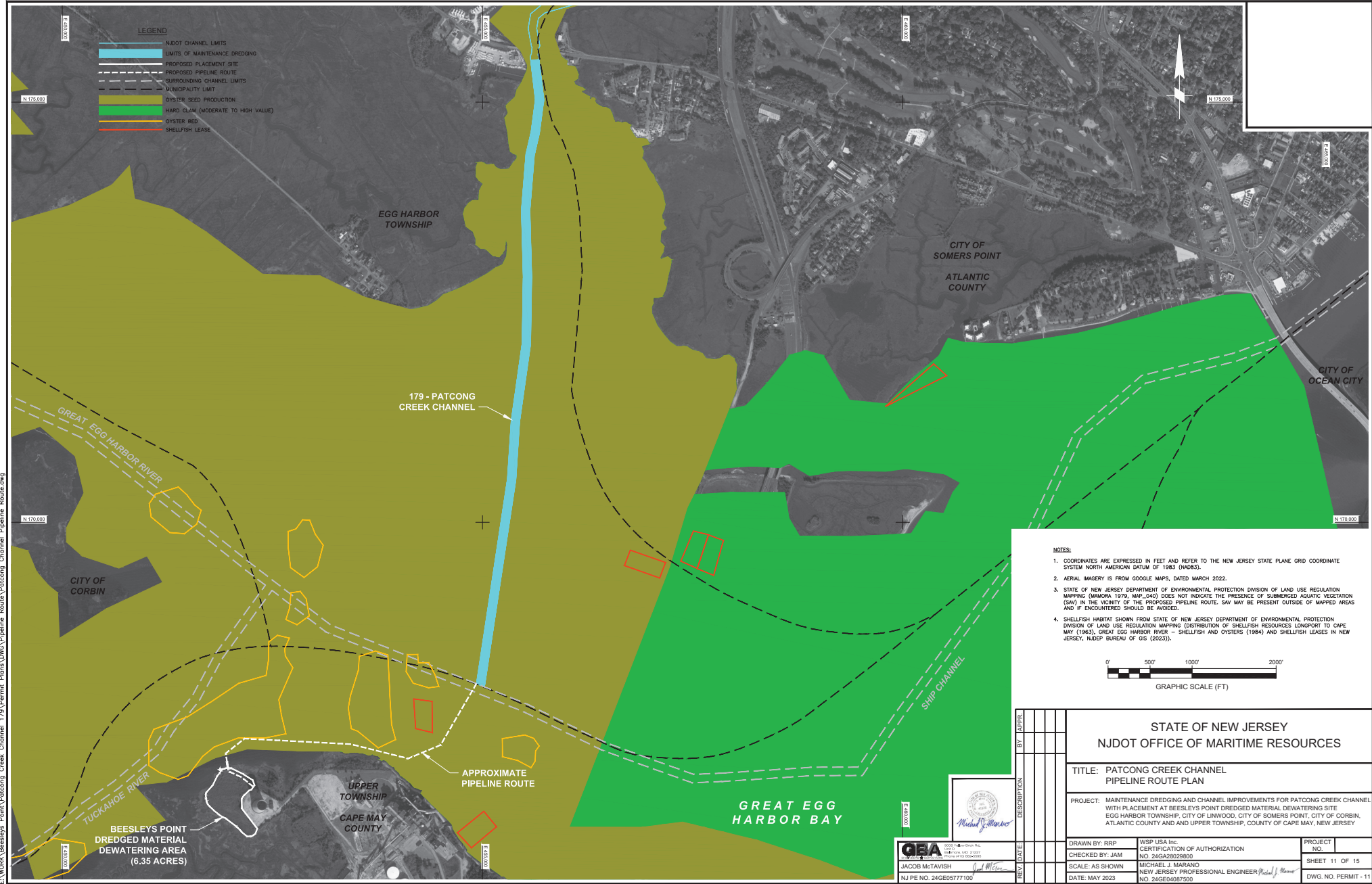
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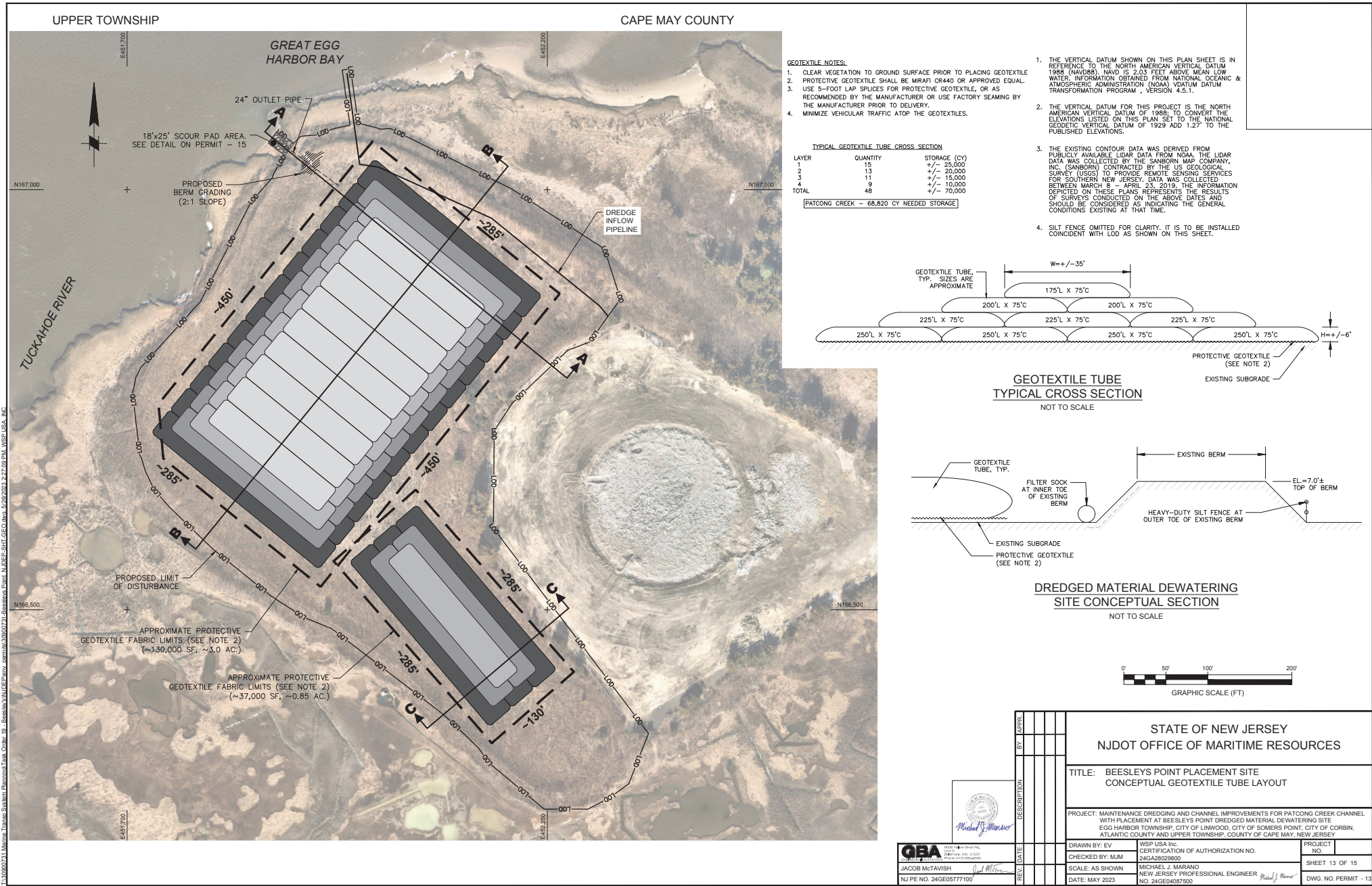


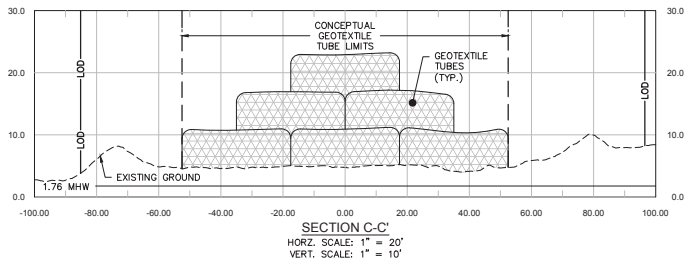
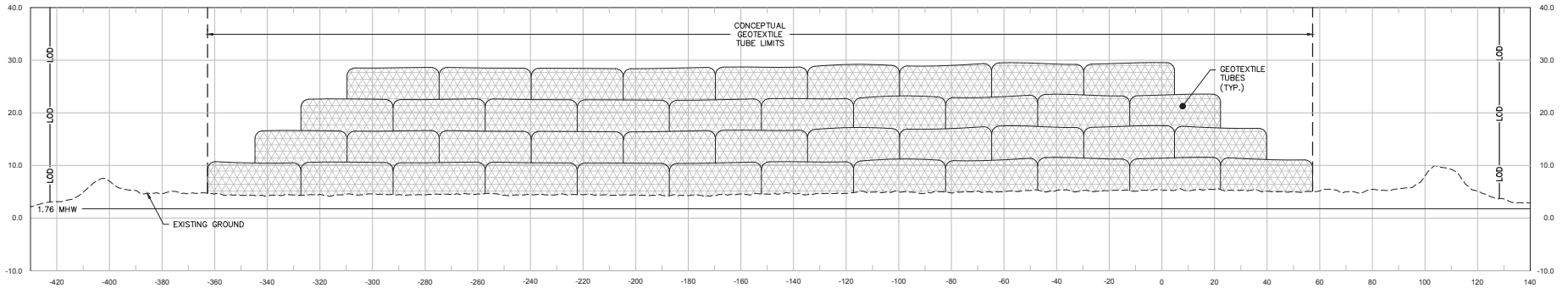
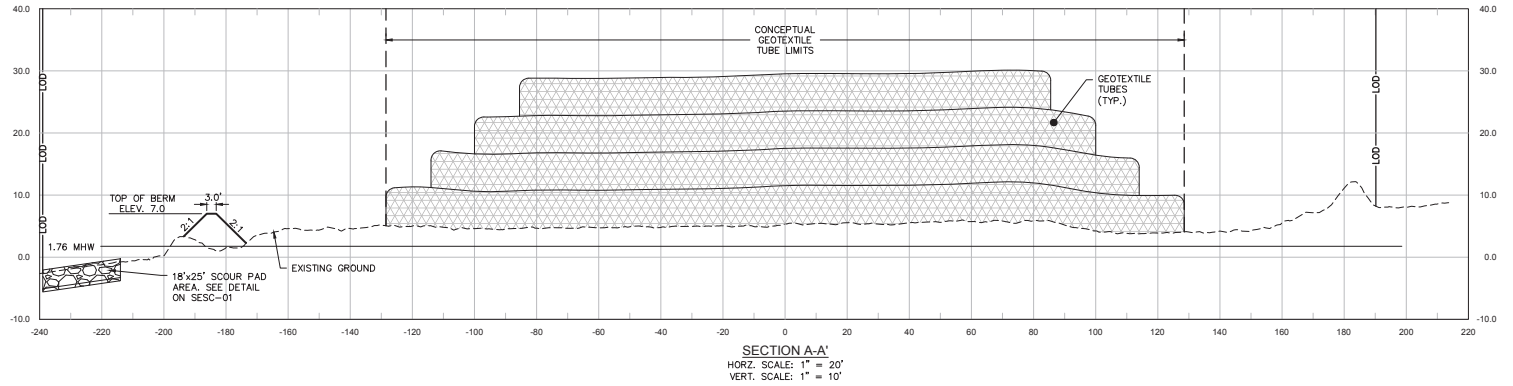
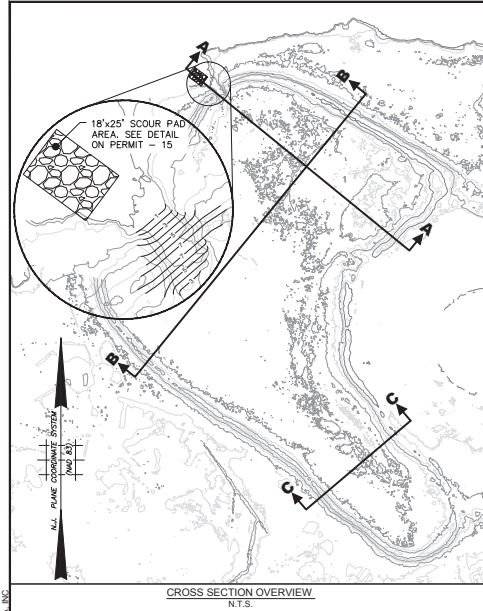
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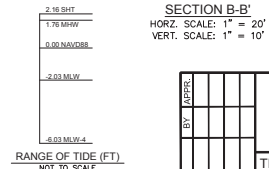
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1. THE VERTICAL DATUM SWN ON THIS PLAN SHEET IS IN REFERENCE TO THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88). NAVD = 2.03 FEET ABOVE MEAN LOW WATER. INFORMATION OBTAINED FROM NATIONAL TIDE GAUGE STATION 8670000 AT NEW YORK HARBOR.
2. THE VERTICAL DATUM FOR THIS PROJECT IS THE NORTH AMERICAN VERTICAL DATUM OF 1988; TO CONVERT THE ELEVATIONS LISTED ON THIS PLAN SET TO THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 ADD 1.27' TO THE PUBLISHED ELEVATIONS.
3. THE EXISTING CONTOUR DATA WAS DERIVED FROM PUBLICLY AVAILABLE LIDAR DATA FROM NOAA, THE LIDAR DATA WAS PROVIDED BY CANADIAN MAP COMPANY INC. (CANBRI) CONTRACTED BY THE NJ DEPARTMENT OF GEOLOGICAL SURVEY (UGS2) TO PROVIDE REMOTE SENSING SERVICES FOR SOUTHERN NEW JERSEY. DATA WAS COLLECTED BETWEEN MAY 2015 AND FEBRUARY 2019. THE RESULTS OF THE LIDAR DATA WERE USED TO CORRELATE THE RESULTS OF SURVEYS CONDUCTED IN 2019. THE ABOVE DATES SHOULD BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.
4. SILT FENCE OMITTED FOR CLARITY. IT IS TO BE INSTALLED CONFORMANCE WITH LOD AS SHOWN ON THIS SHEET.



BY	DATE	DESCRIPTION	STATE OF NEW JERSEY NJDOT OFFICE OF MARITIME RESOURCES	
			TITLE: BEESLEYS POINT DREDGED MATERIAL DEWATERING SITE CROSS SECTIONS	
			PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR PATCONG CREEK CHANNEL WITH PLACEMENT AT BEESLEY'S POINT DREDGED MATERIAL DEWATERING SITE EGG HARBOR TOWNSHIP, CITY OF LINWOOD, CITY OF SOMERS POINT, CITY OF CORBIN, ATLANTIC COUNTY AND UPPER TOWNSHIP, COUNTY OF CAPE MAY, NEW JERSEY	
			DRAWN BY: EV CHECKED BY: MJM	WSP USA Inc. CERTIFICATION OF AUTHORIZATION NO. 24AGA2023800
			SCALE: AS SHOWN DATE: MAY 2023	MICHAEL J. MARANO NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE04087600 <i>Michael J. Marano</i>
				PROJECT NO. SHEET 14 OF 15 DWG. NO. PERMIT - 14

1. THE CAPE ATLANTIC SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED FORTY-EIGHT (48) HOURS IN ADVANCE OF ANY LAND DISTURBANCE.
2. ALL WORK IS TO BE DONE IN ACCORDANCE WITH THE STATE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY.
3. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES ARE TO BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCE, OR IN THEIR PROPER SEQUENCE, AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
4. ANY CHANGES TO THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLANS WILL REQUIRE THE SUBMISSION OF REVISED SOIL EROSION AND SEDIMENT CONTROL PLANS TO THE DISTRICT. THE DISTRICT MUST BE NOTICED IN WRITING OF ANY CHANGES TO EROSION AND SEDIMENT CONTROL STANDARDS. N.J.S.A. 4:24-39 SET. REQUIRES THAT NO CERTIFICATES OF OCCUPANCY BE ISSUED BEFORE THERE HAS BEEN COMPLIANCE WITH PROVISIONS OF A CERTIFIED PLAN FOR PERMANENT MEASURES. ALL SITE EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED UNTIL THE DISTRICT ISSUES A REPORT OF COMPLIANCE FOR THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY BY THE MUNICIPALITY.
5. ANY UNSTABILIZED AREAS THAT WILL BE LEFT EXPOSED MORE THAN THIRTY (30) DAYS, AND NOT ADOPTED FOR STABILIZATION TRAFFIC, WILL IMMEDIATELY RECEIVE A TEMPORARY SEEDING. IF THE SEASON PERMITS THE ESTABLISHMENT OF TEMPORARY COVER, THE DISTURBED AREAS WILL BE MULCHED WITH STRAW, OR EQUIVALENT MATERIAL, AT A RATE OF 2 TO 2.5 TONS PER ACRE, AND COVERED WITH STATE STANDARD STABILIZATION TRAFFIC WITH A MESH GULCH.
6. IMMEDIATELY FOLLOWING INITIAL DISTURBANCE OR ROUGH GRADING, ALL CRITICAL AREAS SUBJECT TO EROSION (I.E. STEEP SLOPES AND ROADWAY EMBANKMENTS) WILL RECEIVE TEMPORARY SEEDING IN ACCORDANCE WITH STRAW MULCH WITH A SUITABLE EQUIVALENT, AT A RATE OF 1/2 TO 2 TONS PER ACRE, ACCORDING TO STATE STANDARDS.
7. A SUB-BASE COURSE WILL BE APPLIED IMMEDIATELY FOLLOWING ROUGH GRADING AND INSTALLATION OF MULCH. IF NO UTILITIES TO BE INSTALLED, THE SUB-BASE SHALL BE INSTALLED WITHIN FIFTEEN (15) DAYS OF THE PRELIMINARY GRADING.
8. ANY STEEP SLOPES (3:1 OR GREATER) OR ANY EXISTING ROADWAYS REQUIRING PIPELINE INSTALLATION WILL BE BACKFILLED AND STABILIZED DAILY, AS THE INSTALLATION CONTINUES.
9. THE STANDARD FOR STABILIZED CONSTRUCTION ACCESS REQUIRES THE INSTALLATION OF A STONE PAD AT ALL CONSTRUCTION DRIVEWAYS WHERE VEHICLES WILL ACCESS PAVED ROADWAYS FROM UNPAVED AREAS OF THE SITE.
10. ALL SEDIMENT WASHED, DROPPED, SPILLED, OR TRACKED ONT ROADWAYS (PUBLIC OR PRIVATE) OR OTHER IMPERVIOUS SURFACES WILL BE REMOVED IMMEDIATELY.
11. STORM WASH WHICH IS BE APPLIED ALL EXPOSED AREAS WITHIN TEN (10) DAYS AFTER FINAL GRADING.
12. AT THE TIME THAT SITE PREPARATION FOR PERMANENT VEGETATIVE STABILIZATION IS GOING TO BE COMPLETED, ANY SOIL THAT IS NOT COVERED WITH MULCH OR SEEDING SHALL BE COVERED WITH ADEQUATE VEGETATIVE GROUND COVER SHALL BE REMOVED OR TREATED IN SUCH A WAY THAT IT WILL PERMANENTLY ADJUST THE SOIL CONDITIONS AND RENDER IT SUITABLE FOR VEGETATIVE GROUND COVER. IF THE REMOVAL OR TREATMENT OF THE SOIL WILL NOT PROVIDE SUITABLE CONDITIONS, THE DISTRICT WILL BE REQUIRED TO RE-EVALUATE THE MEANS OF PERMANENT VEGETATIVE STABILIZATION.
13. IN ACCORDANCE WITH THE STANDARD FOR MANAGEMENT OF HIGH ACID PRODUCING SOILS, ANY SOIL HAVING A PH OF 4 OR LESS OR CONTAINING ROUGH SULFIDES SHALL BE COVERED WITH A MINIMUM OF TWO INCHES OF MULCH. AREAS WITHIN TWO INCHES OF EXPOSED SOIL TO EROSION, AREAS WHERE TREES OR SHRUBS ARE TO BE PLANTED SHALL BE COVERED WITH A MINIMUM OF TWENTY-FOUR (24) INCHES OF SOIL HAVING A PH OF 5 OR MORE.
14. SOIL PROTECTION MUST BE MAINTAINED AT ALL PRECURED OUTFALLS PRIOR TO THE DRAINAGE SYSTEM BECOMING OPERATIONAL.
15. UNFILTERED DETERIORING IS NOT PERMITTED. RECONSTRUCTION OF ALL PRECURED OUTFALLS DURING AND AFTER OPERATION OF THE FACILITY. ANY DETERIORATION METHODS USED MUST BE IN ACCORDANCE WITH THE STANDARD FOR DETERIORATING.
16. SHOULD THE CONTROL OF DUST AT THE SITE BE NECESSARY, THE SITE WILL BE SPRINKLED UNTIL THE SURFACE IS WET. TEMPORARY VEGETATIVE COVER SHALL BE ESTABLISHED OR MULCH SHALL BE APPLIED AS REQUIRED.
17. STOCKPILE AND STAGING LOCATIONS ESTABLISHED IN THE FIELD SHALL BE PLACED WITHIN THE LIMIT OF DISTURBANCE ACCORDING TO THE CERTIFIED PLAN. STAGING AND STOCKPILES NOT LOCATED WITHIN THE LIMIT OF DISTURBANCE SHALL BE MAINTAINED TO PREVENT SOIL EROSION AND SEDIMENT CONTROL PLAN. THE DISTRICT RESERVES THE RIGHT TO DETERMINE WHEN CERTIFICATION OF A NEW AND SEPARATE SOIL EROSION AND SEDIMENT CONTROL PLAN WILL BE REQUIRED FOR THESE ACTIVITIES.
18. ALL SOIL STOCKPILES ARE TO BE TEMPORARILY STABILIZED IN ACCORDANCE WITH SOIL EROSION AND SEDIMENT CONTROL NOTE #6.
19. THE DISTRICT OWNER SHALL BE RESPONSIBLE FOR ANY EROSION OR SEDIMENTATION THAT MAY OCCUR BELOW STORMWATER OUTFALLS OR OFFSITE AS A RESULT OF CONSTRUCTION OF THE PROJECT.

WOODEN STAKES PLACED 10' O.C.

AREA TO BE PROTECTED

WATER FLOW

WORK AREA

FILTER SOCK

PLAN

2"x2"x2'-6" WOODEN STAKE PLACED 10' O.C.

FILTER SOCK (12" TYPICAL).

WORK AREA

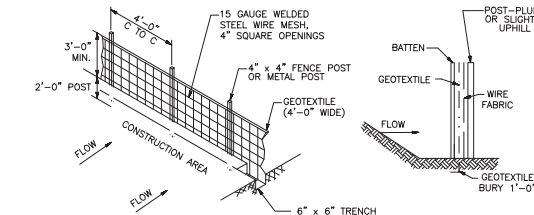
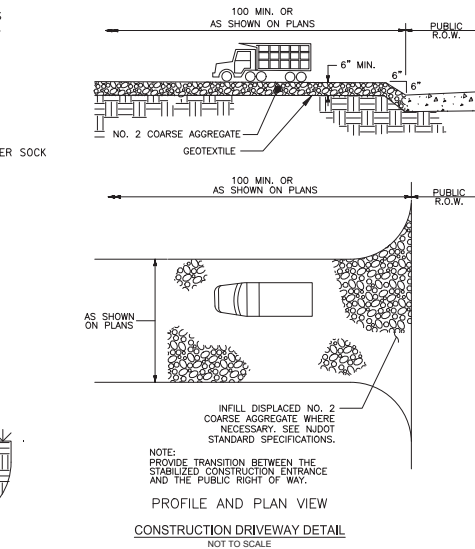
3-4"

AREA TO BE PROTECTED

SECTION

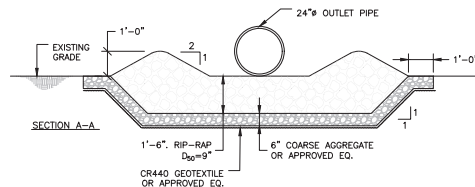
FILTER SOCK DETAIL

NOT TO SCALE



- NOTES:
1. SECURELY FASTEN GEOTEXTILE TO WIRE FABRIC BY USE OF WIRE TIES OR HOG RINGS, THEN SANDWICH BETWEEN 1" x 3" x 3' BATTEN AND THE POSTS PLACING SCREWS AT 6 INCH INTERVALS STARTING 3 INCHES FROM TOP.
 2. BURY 4" x 4" FENCE POST 2'-0" BELOW GROUND.
 3. BURY BOTTOM 1 FOOT OF GEOTEXTILE AS PER SILT FENCE AND TAMP IN PLACE.
 4. SECURELY FASTEN ENDS OF INDIVIDUAL ROLLS OF GEOTEXTILE TO A COMMON POST BY WRAPPING EACH END OF THE GEOTEXTILE AROUND A BATTEN TWICE AND ATTACHING THE BATTEN TO POST WITH SCREWS AT 6 INCH INTERVALS STARTING 3 INCHES FROM TOP.
- NOTE: SPLICING OF INDIVIDUAL ROLLS SHALL NOT OCCUR AT LOW POINTS.
- BURY 6" OF WIRE FABRIC IN TIDAL AREAS.

DISCHARGE PIPE SIZE & TYPE	BOTTOM DIMENSIONS		STONE	
	L (FT.)	W (FT.)	D ₅₀ SIZE (IN.)	THICK (IN.)
24" H.D.P.E.	12'	12'	9"	18"+6" (#57)+FABRIC



TITLE: SOIL EROSION & SEDIMENT CONTROL NOTES AND DETAILS

PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR PATCONG CREEK CHANNEL
WITH PLACEMENT AT BEESLEYS POINT DREDGED MATERIAL DEWATERING SITE
EGG HARBOR TOWNSHIP, CITY OF LINWOOD, CITY OF SOMERS POINT, CITY OF CORBIN,
ATLANTIC COUNTY AND UPPER TOWNSHIP, COUNTY OF CAPE MAY, NEW JERSEY

DRAWN BY: EV		WSP USA Inc.	PROJECT NO.
CHECKED BY: MJM		CERTIFICATION OF AUTHORIZATION NO. 24GA28029800	
SCALE: AS SHOWN		MICHAEL J. MARANO NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE04087500	SHEET 15 OF 15
DATE: MAY 2023		<i>Michael J. Marano</i>	DWG. NO. PERMIT -

QEA 8000 Yellow Brick
Unit C
Baltimore, MD 21106
Phone (410) 682-2100

JACOB McTAVISH

NJ PE NO. 24GE05777100

	REV. DATE:			
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DRAWN BY: EV	WSP USA Inc.
CHECKED BY: MJM	CERTIFICATION OF AUTHORIZATION NO. 24GA28029800
SCALE: AS SHOWN	MICHAEL J. MARANO NEW JERSEY PROFESSIONAL ENGINEER NO. 24CF04087500

PROJECT NO.	
SHEET 15 OF 15	
DWG. NO. PERMIT - 15	