# PUBLIC NOTICE

US Army Corps
of Engineers
New York District
Jacob K. Javits Federal Building
New York, N.Y. 10278-0090
ATTN: Regulatory Branch

**In replying refer to:**
Public Notice Number: NAN-2015-00718-EPI
Issue Date: 13 July 2015
Expiration Date: 13 August 2015

To Whom It May Concern:

The New York District, Corps of Engineers 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), Section 404 of the Clean Water Act (33 U.S.C. 1344)

APPLICANT: New Jersey Department of Transportation– Office of Maritime Resources
Contact: Genevieve Clifton
1035 Parkway Avenue
P.O. Box 600
Trenton, NJ 08625

ACTIVITY: Dredge with ten years maintenance and discharge of dredged material to a temporary dewatering area with final placement at upland disposal site.

WATERWAY: Shark River Channel and Spur

LOCATION: Neptune Township and Borough of Belmar, Monmouth County, New Jersey.

A detailed description and plans of the applicant's activity are enclosed to assist in your review.

The decision whether to issue a permit will be based on an evaluation of the probable impact including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership and, in general, the needs and welfare of the people.

The Corps of Engineers 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 this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

ALL COMMENTS REGARDING THE PERMIT APPLICATION MUST BE PREPARED IN WRITING AND MAILED TO REACH THIS OFFICE BEFORE THE EXPIRATION DATE OF THIS

NOTICE, otherwise, it will be presumed that there are no objections to the activity. Comments submitted in response to this notice will be fully considered during the public interest review for this permit application. All written comments, including names and addresses, will be made a part of the administrative record, available to the public under the Freedom of Information Act. The Administrative Record, or portions thereof, may also be posted on a Corps of Engineers internet web site. Due to resource limitations, this office will normally not acknowledge the receipt of comments or respond to individual letters of comment.

Any person may request, in writing, before this public notice expires, that a public hearing be held to collect information necessary to consider this application. Requests for public hearings shall state, with particularity, the reasons why a public hearing should be held. It should be noted that information submitted by mail is considered just as carefully in the permit decision process and bears the same weight as that furnished at a public hearing.

Our preliminary determination is that the activity for which authorization is sought herein is not likely to affect any Federally endangered or threatened species or their critical habitat. However, pursuant to Section 7 of the Endangered Species Act (16 U.S.C. 1531), the District Engineer is consulting with the appropriate Federal agency to determine the presence of and potential impacts to listed species in the project area or their critical habitat.

The Magnuson-Stevens Fishery Conservation and Management Act, as amended by the Sustainable Fisheries Act (Public Law 104-267), requires all Federal agencies to consult with the National Oceanic and Atmospheric Administration Fisheries Service (NOAA/FS) on all actions, or proposed actions, permitted, funded, or undertaken by the agency, that may adversely affect Essential Fish Habitat (EFH). The proposed work, fully described in the attached work description, could cause the disruption of habitat for various lifestages of some EFH-designated species as a result of a temporary increase in turbidity during construction. However, the New York District has made the preliminary determination that the site-specific adverse effects are not likely to be substantial because it is expected that fish populations would avoid the small area of disturbance. Further consultation with NOAA/FS regarding EFH impacts and conservation recommendations being conducted and will be concluded prior to the final decision.

Based upon a review of the latest published version of the National Register of Historic Places, there are no known sites eligible for, or included in, the Register within the permit area. Presently unknown archeological, scientific, prehistorical, or historical data may be lost by work accomplished under the required permit.

Review of activities pursuant to Section 404 of the Clean Water Act will include application of the guidelines promulgated by the Administrator, U.S. Environmental Protection Agency, under authority of Section 404 (b) of the Clean Water Act and the permit applicant will obtain a water quality certificate or waiver from the appropriate state agency in accordance with Section 401 of the Clean Water Act prior to a permit application decision.

Pursuant to Section 307 (c) of the Coastal Zone Management Act of 1972 as amended [16 U.S.C. 1456 (c)], for activities under consideration that are located within the coastal zone of a state which has a federally approved coastal zone management program, the applicant has certified in the permit application that the activity complies with, and will be conducted in a manner that is consistent with, the approved state coastal zone management program. By this public notice, we are requesting the state's concurrence with, objection to, or waiver of the applicant's certification.

No permit decision will be made until one of these actions occurs. For activities within the coastal zone of New Jersey State, the applicant's certification and accompanying information is available

from the New Jersey Department of Environmental Protection, Coastal Management Program, P.O. Box 418, 401 E. State Street, Trenton, NJ, 08625, Telephone (609) 633-2201. Comments regarding the applicant's certification, and copies of any letters to this office commenting upon this proposal, should be so addressed.

In addition to any required water quality certificate and coastal zone management program concurrence, the applicant has obtained or requested the following governmental authorization for the activity under consideration:

- New Jersey Department of Environmental Protection

It is requested that you communicate the foregoing information concerning the activity to any persons known by you to be interested and who did not receive a copy of this notice. If you have any questions concerning this application, you may contact this office at (917) 790-8533 and ask for Randy Piersol.

In order for us to better serve you, please complete our Customer Service Survey located at http://www.nan.usace.army.mil/Missions/Regulatory/CustomerSurvey.aspx.

For more information on New York District Corps of Engineers programs, visit our website at http://www.nan.usace.army.mil.

for
Jodi M. McDonald
Chief, Regulatory Branch

Enclosures

## WORK DESCRIPTION

The applicant, New Jersey Department of Transportation – Office of Maritime Resources, has requested Department of the Army authorization for dredging with 10-year maintenance, subsequent upland placement after dewatering at a temporary site. The project area covers two sections in Shark River (Channel #038 and Spur (#039) located in parts of the Borough of Neptune City, and the Borough of Belmar, Monmouth County, New Jersey.

The work would involve:

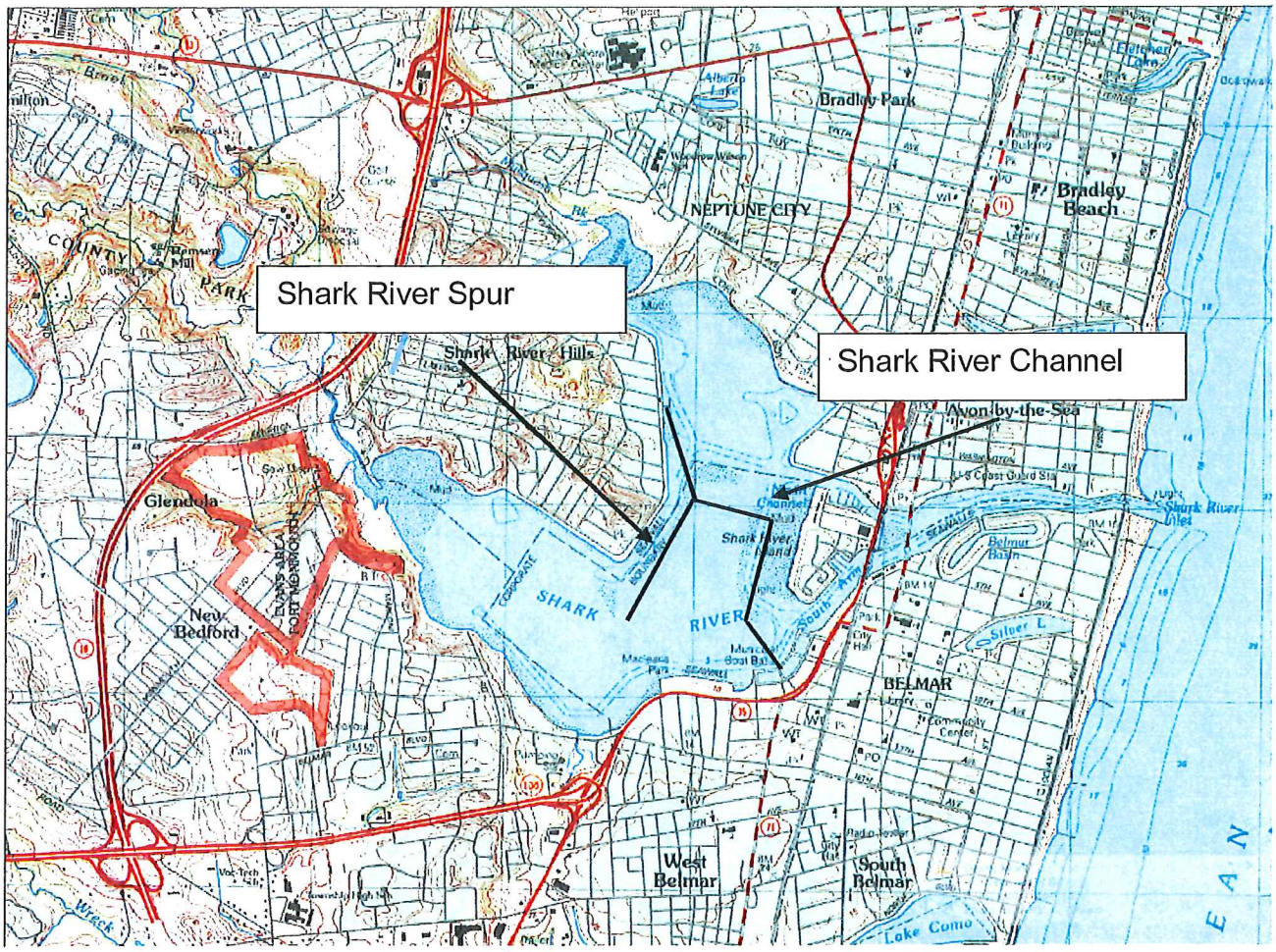
Hydraulic dredging of approximately one hundred and two thousand cubic yards (102,000 $yds^3$) of sediment, from approximately eight thousand six hundred linear feet (8,600 ft) of the Shark River. The project depth is six feet below mean low water (-6' MLW), plus one foot (1') of allowable overdredge. The channel design width is 100 feet with 3:1 side slopes. A 10-year maintenance dredging provision is requested as part of this application. Two (2) additional dredging events of approximately 15,000 cubic yards each are projected.

Additional Details:

The duration of the project will last six (6) to eight (8) months depending upon the size of the hydraulic equipment. The dredge material consists of silt, clay and sand with grain size results from the core samples ranging from 4.2-62.8% sand, 23.7-76.4% silt and 13.5-19.9% clay. All dredge material will undergo a dewatering process within two potential settlement areas in the vicinity of Belmar Marina. After the dewatering process is complete, sediment will be placed in trucks and transported to a state approved site. The remaining water will be sampled and analyzed to demonstrate the project meets all applicable surface water quality standards.

The applicant has stated that they have avoided, minimized, and mitigated for impacts proposed to the maximum extent practicable by designing the proposed project with the minimum necessary to allow for safe navigable access for marine recreational vehicles. There are no alternatives to the project except for the "no action" alternative which would allow for continuing shoaling of the channel and further limiting access to the Atlantic Ocean. Alternative dredging methods exist (Clamshell, Longneck Excavator) but hydraulic dredging is the most practical alternative for this project and generally results in less impact to water quality compared to mechanical methods.

The stated purpose of this project is to return the channel to previously existing and authorized depths prior to Super-storm Sandy. Additionally, the project will return the channel to maximum use as a municipal marina and for associated recreational and commercial marine traffic use.




**N.A.D. 1983 State Plane Coordinates:**

State Plane Coordinates (NAD 1983):

Shark River Channel (038)

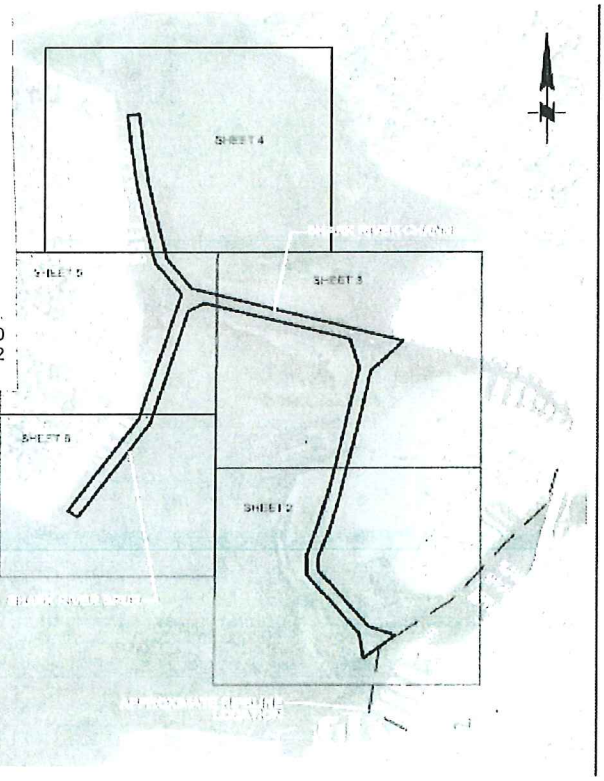
| | |
|---|---|
| Channel Centerline (Station 0+00) | E (x): 623,082.2N(y): 491,356.8 |
| Channel Centerline (Station 63+72.46): | E (x): 621,042.4N(y): 496,212.8 |

Shark River Spur (039)

| | |
|---|---|
| Channel Centerline (Station 0+00) | E (x): 620,555.4N(y): 492,568.4 |
| Channel Centerline (Station 22+56.15): | E (x): 621,500.6N(y): 494,587.6 |

Dewatering Location Coordinates

| | | |
|---|---|---|
| Shark River Island | E(x) 624,334.213 | N (y) 493,139.450 |
| Belmar Marina | E(x) 623,514.331 | N (y) 490,716.722 |




SHARK RIVER CHANNEL & SHARK RIVER SPUR

STATE OF NEW JERSEY
NJDOT OFFICE OF MARITIME RESOURCES

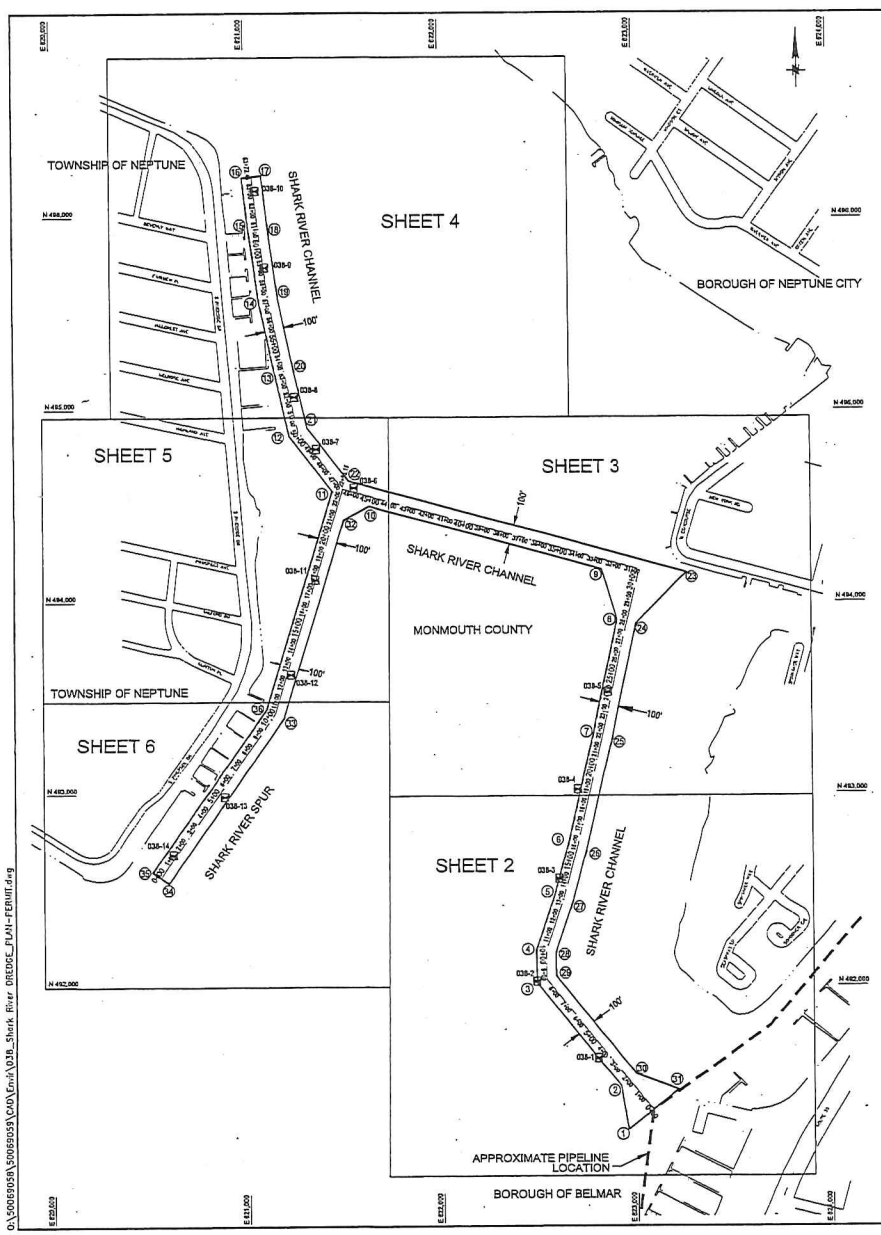
TITLE: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR SHARK RIVER CHANNEL & SHARK RIVER SPUR

CHANNEL ARRANGEMENT & GEOMETRY PLAN

PROJECT: SHARK RIVER CHANNEL & SHARK RIVER SPUR
TOWNSHIP OF NEPTUNE, BOROUGH OF NEPTUNE CITY & BOROUGH OF BELMAR, MONMOUTH COUNTY, NEW JERSEY

| | | |
|---|---|---|
| DRAWN BY: CEM | DEWBERRY ENGINEERS INC. CERTIFICATION OF AUTHORIZATION NO. 24GA28047600 | PROJECT NO. |
| CHECKED BY: ST | JAMES D. HEEREN NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE04031000 | SHEET 1 OF 2 |
| SCALE: AS SHOWN | | |
| DATE: 5/1/15 | | DWG. NO. DRG-01 |

Project Location Map




| SHARK RIVER CHANNEL COORDINATES | | |
|---|---|---|
| POINT | NORTHING | EASTING |
| 1 | 491252.1 | 622953.3 |
| 2 | 491481.0 | 622917.1 |
| 3 | 492014.3 | 622484.3 |
| 4 | 492184.8 | 622480.3 |
| 5 | 492466.7 | 622575.8 |
| 6 | 492741.4 | 622651.3 |
| 7 | 493310.6 | 622783.1 |
| 8 | 493906.6 | 622909.1 |
| 9 | 494168.5 | 622832.9 |
| 10 | 494498.3 | 621635.9 |
| 11 | 494577.6 | 621445.0 |
| 12 | 494863.8 | 621226.5 |
| 13 | 495177.0 | 621155.8 |
| 14 | 495568.2 | 621074.2 |
| 15 | 495936.2 | 621023.4 |
| 16 | 496207.2 | 620952.7 |
| 17 | 496218.4 | 621092.1 |
| 18 | 495948.6 | 621122.6 |
| 19 | 495585.3 | 621172.8 |
| 20 | 495198.2 | 621253.5 |
| 21 | 494907.1 | 621319.2 |
| 22 | 494631.3 | 621529.8 |
| 23 | 494152.2 | 621368.1 |
| 24 | 493882.4 | 623000.1 |
| 25 | 493288.9 | 622880.8 |
| 26 | 492716.8 | 622748.3 |
| 27 | 492437.3 | 622671.4 |
| 28 | 492169.5 | 622580.7 |
| 29 | 492050.8 | 622583.5 |
| 30 | 491544.0 | 622994.7 |
| 31 | 491461.4 | 623211.2 |

| SHARK RIVER CHANNEL CENTERLINE COORDINATES | | |
|---|---|---|
| STATION | NORTHING | EASTING |
| 0+00 | 493356.8 | 623082.2 |
| 8+65 | 492032.6 | 622533.5 |
| 10+10 | 492377.2 | 622530.5 |
| 13+05 | 492452.0 | 622623.6 |
| 15+95 | 492729.1 | 622699.8 |
| 21+90 | 493299.7 | 622831.9 |
| 27+05 | 493815.5 | 622941.6 |
| 30+65 | 494167.3 | 623025.4 |
| 46+50 | 494587.6 | 621500.3 |
| 50+25 | 494885.4 | 621272.8 |
| 53+40 | 495187.6 | 621204.7 |
| 57+40 | 495576.8 | 621123.5 |
| 61+00 | 495942.4 | 621073.0 |
| 63+72.46 | 496212.8 | 621042.4 |

| SHARK RIVER SPUR CHANNEL COORDINATES | | |
|---|---|---|
| POINT | NORTHING | EASTING |
| 32 | 494426.1 | 621503.4 |
| 33 | 493398.9 | 621190.9 |
| 34 | 492540.0 | 620596.5 |
| 35 | 492596.9 | 620534.3 |
| 36 | 493442.9 | 621099.8 |

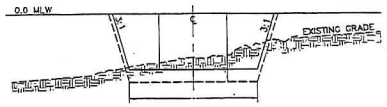
| SHARK RIVER SPUR CENTERLINE COORDINATES | | |
|---|---|---|
| STATION | NORTHING | EASTING |
| 0+00 | 492568.4 | 620555.4 |
| 10+25 | 493420.9 | 621145.4 |
| 22+56.15 | 494587.6 | 621500.3 |

| CORE SAMPLE COORDINATES | | |
|---|---|---|
| LOCATION | NORTHING | EASTING |
| 038-1 | 491626.40 | 622801.40 |
| 038-2 | 492022.80 | 622483.90 |
| 038-3 | 492557.50 | 622600.40 |
| 038-4 | 493021.30 | 622701.30 |
| 038-5 | 493529.20 | 622859.70 |
| 038-6 | 494594.20 | 621557.0 |
| 038-7 | 494796.0 | 621363.10 |
| 038-8 | 495067.10 | 621253.30 |
| 038-9 | 495742.50 | 621104.60 |
| 038-10 | 496138.0 | 621058.30 |
| 038-11 | 494116.40 | 621355.40 |
| 038-12 | 493622.20 | 621228.0 |
| 038-13 | 492986.70 | 620882.90 |
| 038-14 | 492687.0 | 620620.60 |

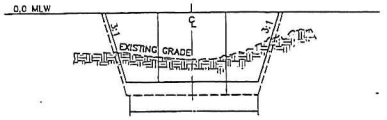
DREDGE VOLUMES BASED ON DEC. 2014 SURVEY DATA

| SHARK RIVER CHANNEL | |
|---|---|
| DEPTH | STA. 0+00 TO 63+72.46 |
| TEMPLATE (-6 MLW) | 49,703 CY |
| OVERDEPTH (-7 MLW) | 25,525 CY |
| TOTAL VOLUME | 75,228 CY |

| SHARK RIVER SPUR | |
|---|---|
| DEPTH | STA. 0+00 TO 22+56.15 |
| TEMPLATE (-6 MLW) | 15,991 CY |
| OVERDEPTH (-7 MLW) | 10,275 CY |
| TOTAL VOLUME | 26,266 CY |




TYPICAL SECTION: SHARK RIVER CHANNEL STA 0+00 to 63+72.46
NOT TO SCALE

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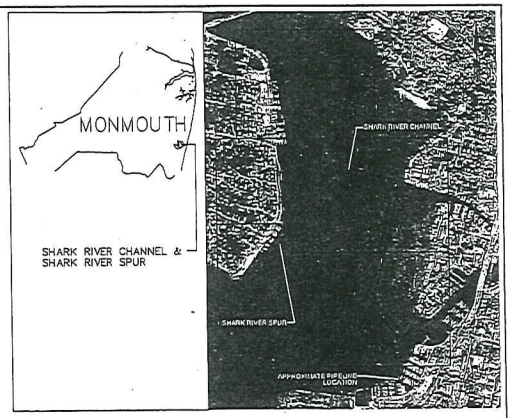



CHANNEL LOCATION PLAN

NOTES:

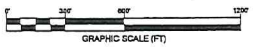
1. VERTICAL DATUM IS IN REFERENCE TO MEAN LOW WATER (MLW). MLW IS 2.45 FEET BELOW THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). INFORMATION OBTAINED FROM NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION (NOAA) VDATUM DATUM TRANSFORMATION PROGRAM.
2. COORDINATES ARE EXPRESSED IN FEET AND REFER TO THE NEW JERSEY STATE PLANE GRID COORDINATE SYSTEM NORTH AMERICAN DATUM OF 1983.
3. EXISTING SHORELINE & DOCK LOCATIONS BASED ON AERIAL IMAGERY AND SHOULD BE CONSIDERED APPROXIMATE.
4. BATHYMETRIC DATA IS EXPRESSED IN FEET BELOW MLW & WAS COLLECTED ON DECEMBER 4–5, 2014 BY GAHADAN & BRYANT ASSOCIATES, INC.
5. THE INFORMATION DEPICTED ON THIS PLAN REPRESENTS THE RESULTS OF SURVEY CONDUCTED ON THE ABOVE DATES AND CAN BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.
6. AERIAL IMAGERY FROM NEW JERSEY STATE GEOGRAPHIC INFORMATION NETWORK, DATED 2012–2013.




RANGE OF TIDE
NOT TO SCALE

LEGEND

- EXISTING SHORELINE
- EXISTING ROAD/PAVEMENT
- CHANNEL CENTERLINE
- CHANNEL LIMITS
- CORE SAMPLE LOCATION
- CHANNEL COORDINATE POINT
- APPROXIMATE PIPELINE LOCATION




GRAPHIC SCALE (FT)

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STATE OF NEW JERSEY
NJDOT OFFICE OF MARITIME RESOURCES

TITLE: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR SHARK RIVER CHANNEL & SHARK RIVER SPUR

CHANNEL ARRANGEMENT & GEOMETRY PLAN

PROJECT: SHARK RIVER CHANNEL & SHARK RIVER SPUR
TOWNSHIP OF NEPTUNE, BOROUGH OF NEPTUNE CITY & BOROUGH OF BELMAR, MONMOUTH COUNTY, NEW JERSEY

| | | |
|---|---|---|
| DRAWN BY: CEM | DEWBERRY ENGINEERS INC. CERTIFICATION OF AUTHORIZATION NO. 24GA28047000 | PROJECT NO. |
| CHECKED BY: ST | | SHEET 2 OF 2 |
| SCALE: AS SHOWN | JAMES D. HEEREN NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE04031000 | |
| DATE: 5/1/16 | | DWG. NO. DRG-01 |

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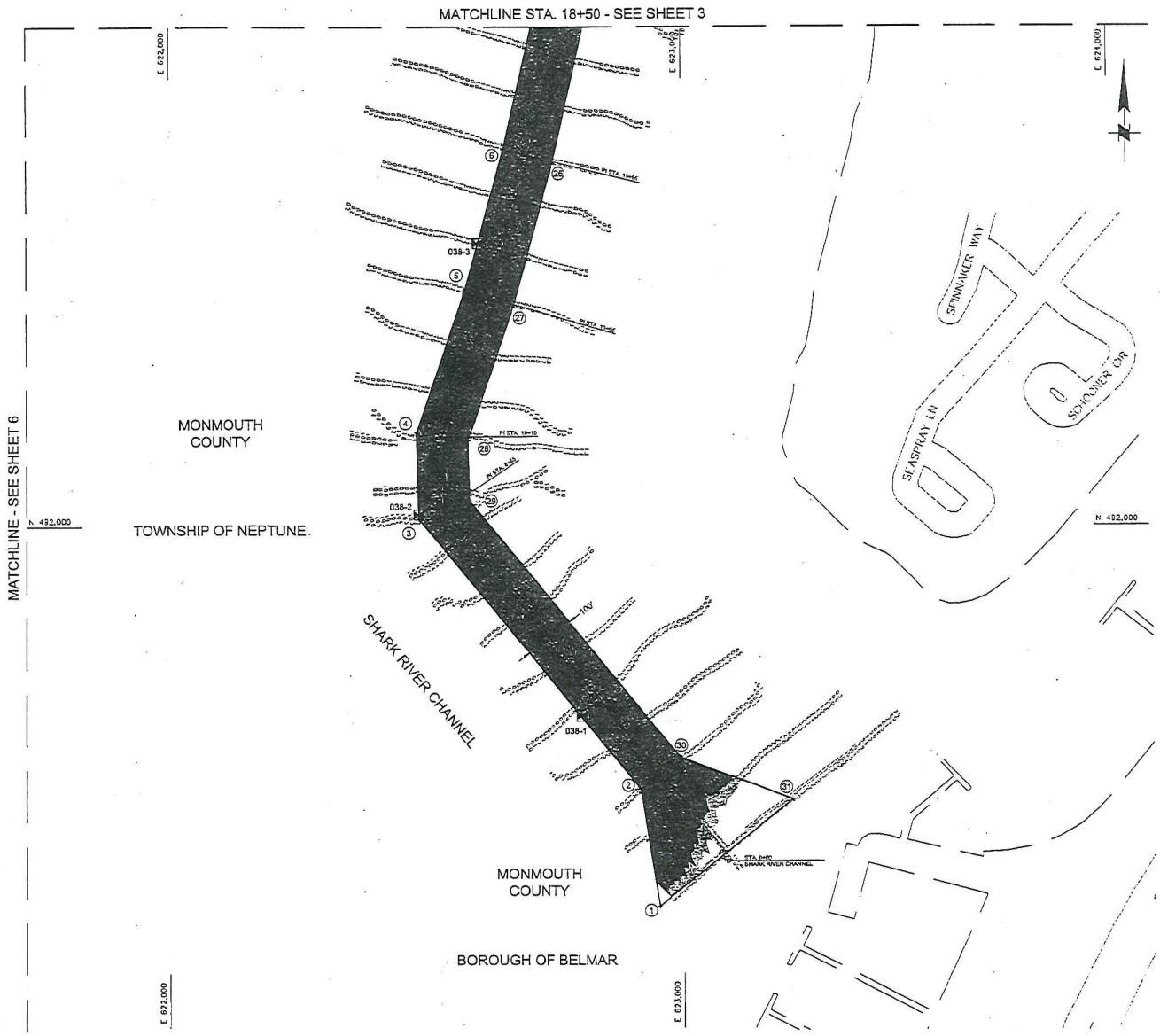


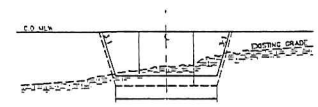


TYPICAL SECTION: SHARK RIVER CHANNEL STA 0+00 to 63+72.46
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RANGE OF TIDE
NOT TO SCALE

LEGEND

- EXISTING SHORELINE
- EXISTING ROAD/PAVEMENT
- CHANNEL CENTERLINE
- CHANNEL LIMITS
- CHANNEL SHOALING AREA – 6' DEEP TEMPLATE NAVIGATIONAL CHANNEL
- CHANNEL SHOALING AREA – 7' DEEP OVERDEPTH
- CORE SAMPLE LOCATION
- CHANNEL COORDINATE POINT

0' 100' 200' 400'
GRAPHIC SCALE (FT)

| REV. | DATE: | DESCRIPTION | BY | APPR. |
|---|---|---|---|---|
| | | | | |

STATE OF NEW JERSEY
NJDOT OFFICE OF MARITIME RESOURCES

TITLE: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR SHARK RIVER CHANNEL & SHARK RIVER SPUR

CHANNEL BATHYMETRY PLAN

PROJECT: SHARK RIVER CHANNEL & SHARK RIVER SPUR
TOWNSHIP OF NEPTUNE, BOROUGH OF NEPTUNE CITY & BOROUGH OF BELMAR,
MONMOUTH COUNTY, NEW JERSEY

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|---|---|---|
| DRAWN BY: CEM | DEWBERRY ENGINEERS INC. CERTIFICATION OF AUTHORIZATION NO. 24GA28047600 | PROJECT NO. |
| CHECKED BY: ST | | SHEET 2 OF 7 |
| SCALE: AS SHOWN | JAMES D. HEEREN NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE04031000 | |
| DATE: 5/1/15 | | DWG. NO. DRG-02 |

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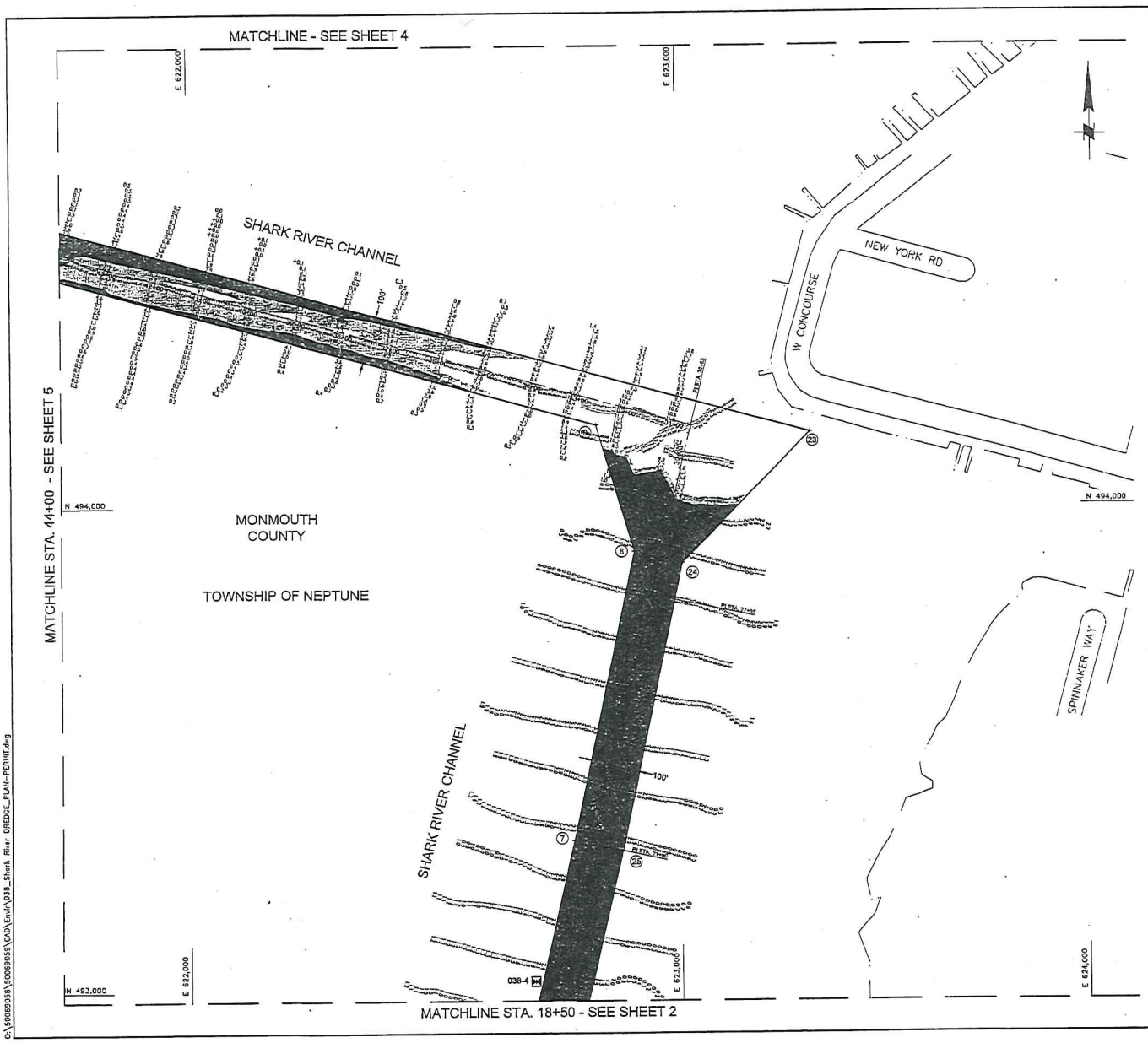


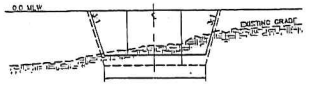


TYPICAL SECTION: SHARK RIVER CHANNEL STA 0+00 to 63+72.46
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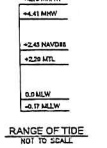


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- EXISTING ROAD/PAVEMENT
- CHANNEL CENTERLINE
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- CHANNEL SHOALING AREA – 7' DEEP OVERDEPTH
- CORE SAMPLE LOCATION
- CHANNEL COORDINATE POINT

0' 100' 200' 400'
GRAPHIC SCALE (FT)

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CHANNEL BATHYMETRY PLAN

PROJECT: SHARK RIVER CHANNEL & SHARK RIVER SPUR
TOWNSHIP OF NEPTUNE, BOROUGH OF NEPTUNE CITY & BOROUGH OF BELMAR,
MONMOUTH COUNTY, NEW JERSEY

DRAWN BY: CEM
CHECKED BY: ST
SCALE: AS SHOWN
DATE: 5/1/15

DEWBERRY ENGINEERS INC.
CERTIFICATION OF AUTHORIZATION
NO. 24GA28047600

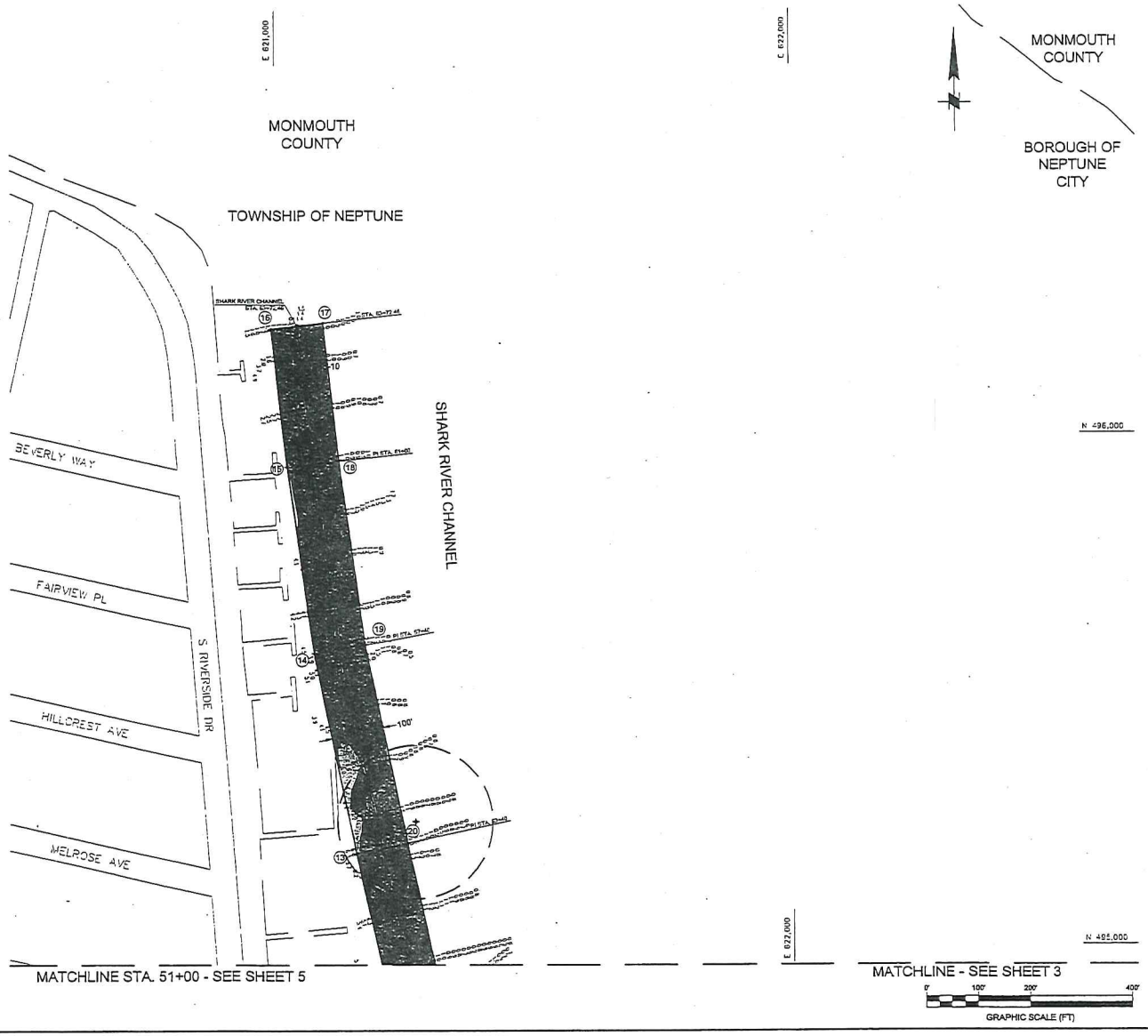
JAMES D. HEEREN
NEW JERSEY PROFESSIONAL ENGINEER
NO. 24GE04031000

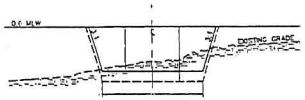
PROJECT NO.

SHEET 3 OF 7

DWG. NO. DRG-03

Q:\50069058\50069059\CAD\Envir\038_Shark River DREDGE_FUN-PERMIT.dwg

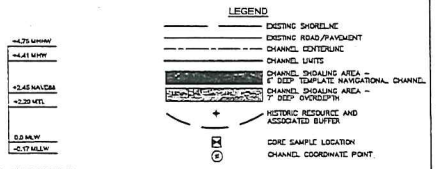



TYPICAL SECTION: SHARK RIVER CHANNEL STA 0+00 to 63+72.46
NOT TO SCALE

NOTES:

1. VERTICAL DATUM IS IN REFERENCE TO MEAN LOW WATER (MLW). MLW IS 2.45 FEET BELOW THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). INFORMATION OBTAINED FROM NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION (NOAA) VDATUM DATUM TRANSFORMATION PROGRAM.
2. COORDINATES ARE EXPRESSED IN FEET AND REFER TO THE NEW JERSEY STATE PLANE GRID COORDINATE SYSTEM NORTH AMERICAN DATUM OF 1983.
3. EXISTING SHORELINE & DOCK LOCATIONS BASED ON AERIAL IMAGERY AND SHOULD BE CONSIDERED APPROXIMATE.
4. BATHYMETRIC DATA IS EXPRESSED IN FEET BELOW MLW & WAS COLLECTED ON DECEMBER 4–5, 2014 BY GAHAGAN & BRYANT ASSOCIATES, INC.
5. THE INFORMATION DEPICTED ON THE PLAN REPRESENTS THE RESULTS OF SURVEY CONDUCTED ON THE ABOVE DATES AND CAN BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.
6. AERIAL IMAGERY FROM NEW JERSEY STATE GEOGRAPHIC INFORMATION NETWORK, DATED 2012–2013.




RANGE OF TIDE
NOT TO SCALE

| REV. | DATE | DESCRIPTION | BY | APPR. |
|---|---|---|---|---|
| | | | | |

STATE OF NEW JERSEY
NJDOT OFFICE OF MARITIME RESOURCES

TITLE: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR SHARK RIVER CHANNEL & SHARK RIVER SPUR

CHANNEL BATHYMETRY PLAN

PROJECT: SHARK RIVER CHANNEL & SHARK RIVER SPUR
TOWNSHIP OF NEPTUNE, BOROUGH OF NEPTUNE CITY & BOROUGH OF BELMAR
MONMOUTH COUNTY, NEW JERSEY

| | | |
|---|---|---|
| DRAWN BY: CEM | DEWBERRY ENGINEERS INC. CERTIFICATION OF AUTHORIZATION NO. 24GA28047600 | PROJECT NO. |
| CHECKED BY: ST | JAMES D. HEEREN NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE04031000 | SHEET 4 OF 7 |
| SCALE: AS SHOWN | | |
| DATE: 5/1/15 | | DWG. NO. DRG-04 |

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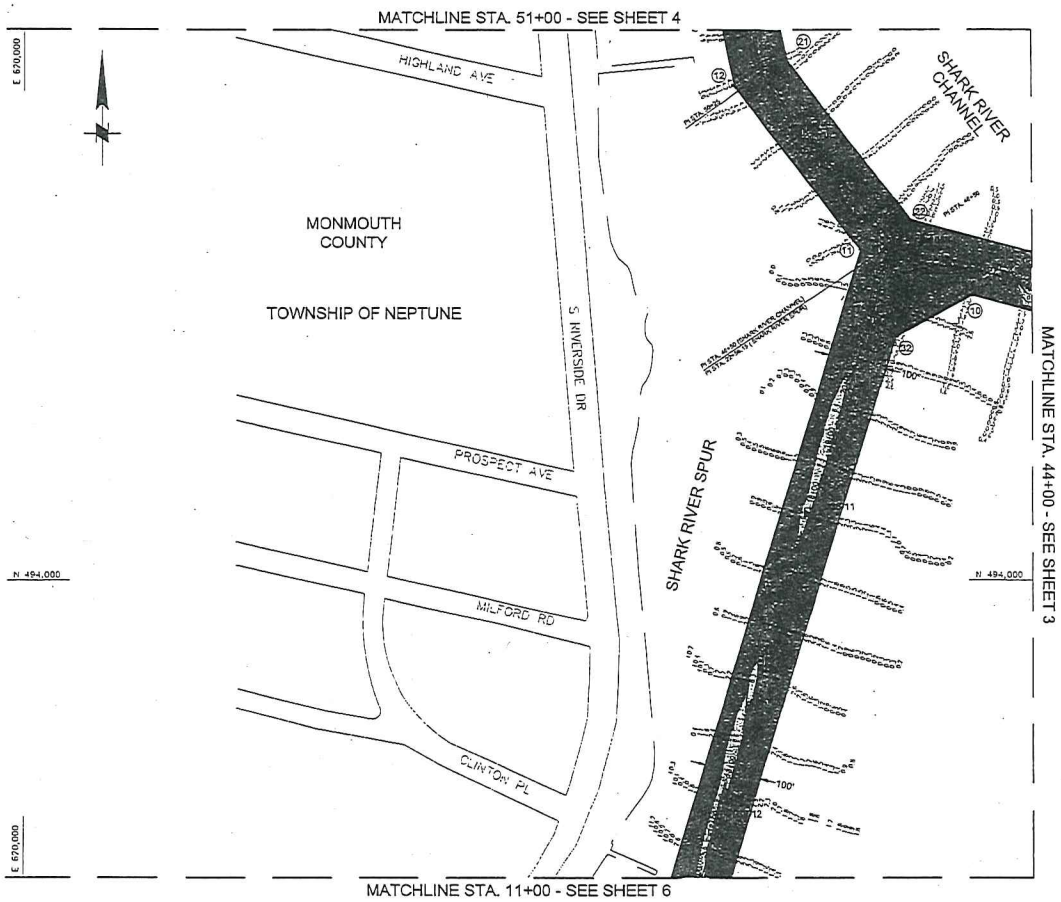
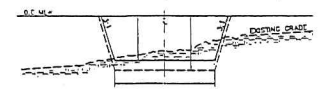
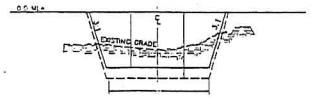



TYPICAL SECTION: SHARK RIVER CHANNEL STA 0+00 to 63+72.46
NOT TO SCALE




TYPICAL SECTION: SHARK RIVER SPUR STA 0+00 to 22+56.15
NOT TO SCALE

NOTES:

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RANGE OF TIDE
NOT TO SCALE

LEGEND

- EXISTING SHORELINE
- EXISTING ROAD/PAVEMENT
- CHANNEL CENTERLINE
- CHANNEL LIMITS
- CHANNEL SHOALING AREA - 6' DEEP TEMPLATE NAVIGATIONAL CHANNEL
- CHANNEL SHOALING AREA - 7' DEEP OVERDEPTH
- CORE SAMPLE LOCATION
- CHANNEL COORDINATE POINT

0' 100' 200' 400'
GRAPHIC SCALE (FT)

| REV. | DATE: | DESCRIPTION | BY | APPR. |
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| SCALE: AS SHOWN | JAMES D. HEEREN NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE04031000 | |
| DATE: 5/1/15 | | DWG. NO. DRG-05 |

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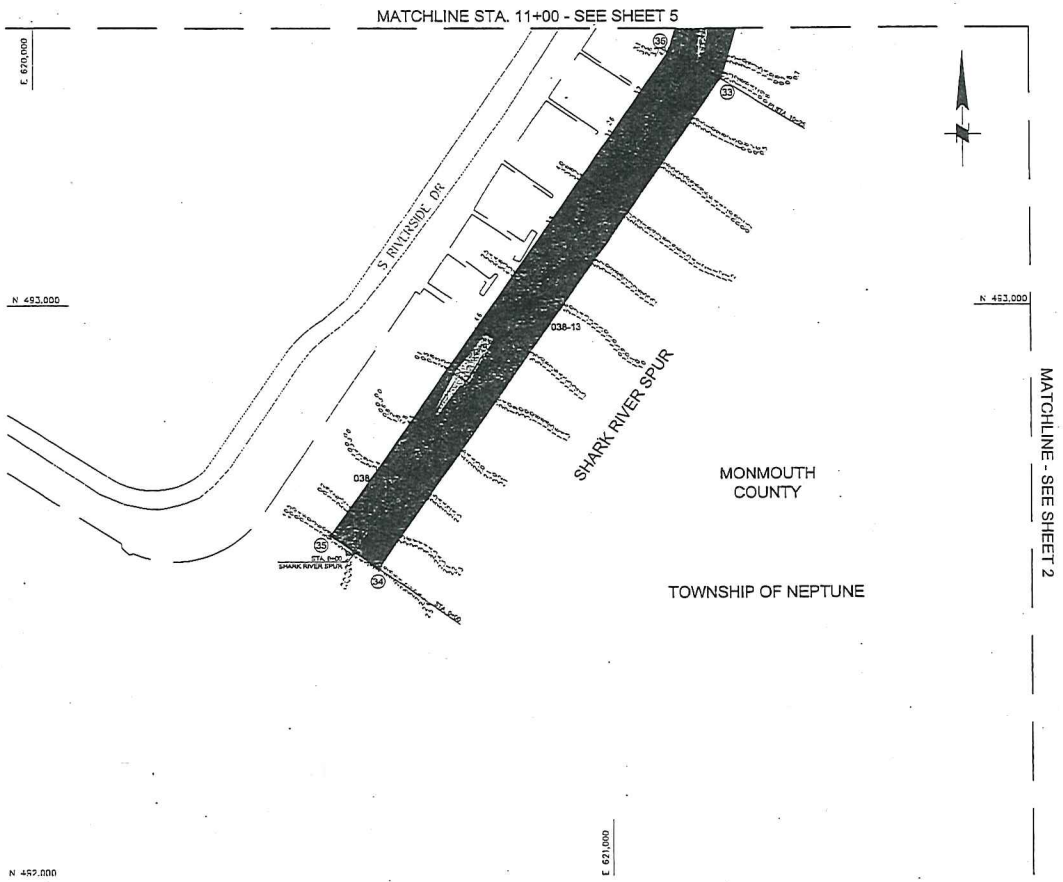


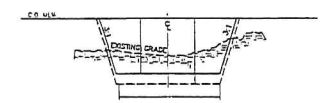


TYPICAL SECTION: SHARK RIVER SPUR STA 0+00 to 22+56.15
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RANGE OF TIDE
NOT TO SCALE

LEGEND

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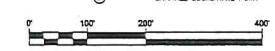
- CHANNEL SHOALING AREA - 6' DEEP TEMPLATE NAVIGATIONAL CHANNEL
- CHANNEL SHOALING AREA - 7' DEEP OVERDEPTH
- CORE SAMPLE LOCATION
- CHANNEL COORDINATE POINT




GRAPHIC SCALE (FT)

| REV. | DATE: | DESCRIPTION | BY | APPR. |
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| CHECKED BY: ST | | SHEET 6 OF 7 |
| SCALE: AS SHOWN | JAMES D. HEEREN NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE04031000 | |
| DATE: 5/1/15 | | DWG. NO. DRG-06 |

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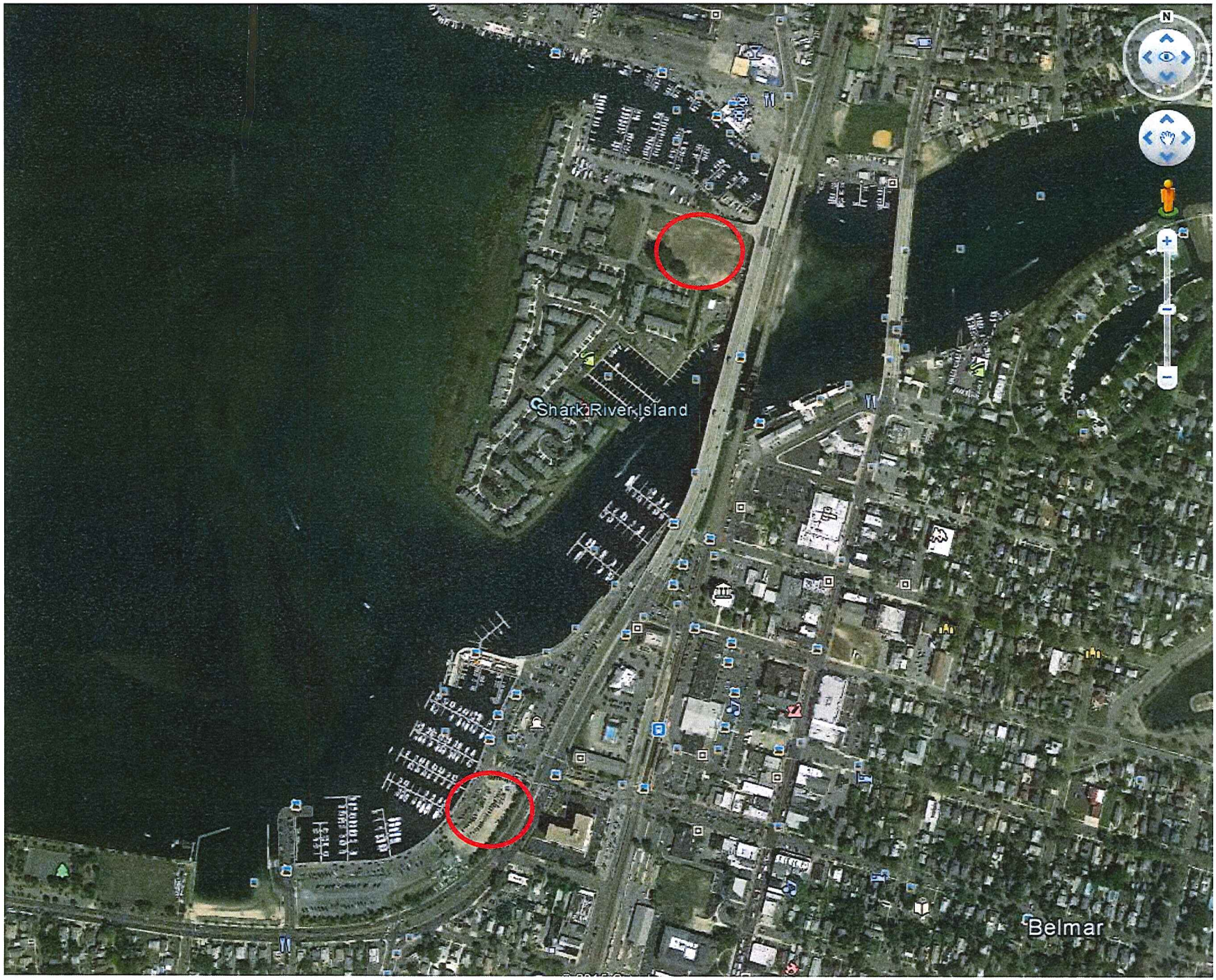
# SHARK RIVER DEWATER LOCATIONS




NAN - 2015-00718 - EPI

Project Area for Shark River Disposal and Dewatering NAN-2015-00718-EPI
N
10th Ave
River Rd
35
Rte 35
11th Ave
71
120 ft
©2015 Google
Google earth

Project Area for Shark River Disposal and Dewatering NAN-2015-00718-EPI
N
S Concourse Ave
Seaview Ct
Seaspray Ln
Spinnaker Way
Laird Ave
35
© 2015 Google
216 ft
Google earth