



**US Army Corps
of Engineers**
Philadelphia District

Wanamaker Building
100 Penn Square East
Philadelphia, PA 19107-3390
ATTN: CENAP-OP-R

Public Notice

Public Notice No. Date

CENAP-OP-R-2016-828-35

Application No. File No.

In Reply Refer to:
REGULATORY BRANCH

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
P.O. Box 600
Trenton, New Jersey 08625-0600
Attn: Ms. Genevieve Clifton

WATERWAY: Kettle Creek Sailors Quay, Kettle Creek, Good Luck Point and Sloop Creek.

LOCATION: Kettle Creek Sailors Quay (#70), Kettle Creek (#71), Good Luck Point (#91) and Sloop Creek (#95) Channels are located in Brick, Berkeley and Toms River Townships; and Lavallette Borough, Ocean County, New Jersey. The dredged material will be disposed in Dredged Hole #25 site which is located in Lavallette Borough, Ocean County, New Jersey.

ACTIVITY: The applicant proposes to hydraulically dredge accumulated sediment from within portions of the waterways listed above (See enclosures E1-24). The applicant has requested a 10-year maintenance dredging permit.

Maintenance dredging shall consist of hydraulic dredging of approximately ninety nine thousand, four hundred and twelve cubic yards (~99,412 yds³) of sediment comprised of a mixture of silt and sand, from approximately seven thousand two hundred ninety four linear feet (~7,294') of Kettle Creek Sailors Quay channel, fifteen thousand two hundred and six linear feet (~15,206') of Kettle Creek channel, three thousand two hundred thirty nine linear feet (~3,239') of Good Luck Point channel, and one thousand three hundred forty three linear feet (~1,343') of Sloop Creek channel. The project depth in the Kettle Creek Sailors Quay, Kettle Creek, Good Luck Point and Sloop Creek Channels is six feet below mean low water (-5' MLW), plus one foot (1') of allowable overdredge. The channel design width is typically one hundred feet (100') with narrower portions down to fifty feet (50') at the upper end of Kettle Creek Sailors Quay and forty feet (40') for the inside portions of Good Luck Point. Channel side slopes are 3:1.

Maintenance dredging of Sloop Creek was last authorized by the State of New Jersey Department of Environmental Protection (NJDEP) in 1988. Dredged material was placed into a confined disposal facility (CDF) in Berkeley Township that is no longer available for use. There is no known historical record of maintenance dredging within the other State navigation channels advertised in this public notice. However, the material to be removed was deposited by Superstorm Sandy and needs to be removed for the restoration of navigability of an existing navigation channel. No new excavation is proposed.

Shoaling, including sediment deposited by Superstorm Sandy, has impeded navigation within these important channels. The maintenance dredging project is intended to restore these channels to the authorized project dimensions to allow safe passage for recreational and commercial marine traffic.

Material will be hydraulically dredged and transported via pipeline for use as restorative fill at the dredged hole #25 in Lavallette Borough, Ocean County. The dredge pipeline to the placement site will be floating except at channel crossings where it will be submerged to avoid a hazard or hindrance to navigation. The pipeline shall be marked as per USCG regulations. A restoration plan for dredged hole #25 has been prepared and submitted to this office. A full copy is available upon request. The purpose of placing the sediment within the dredged hole is to return elevations of the current dredge hole depth to match the surrounding area. By returning elevations to pre-dredged hole conditions, submerged aquatic vegetation could re-colonize the site and eliminate anoxic water quality conditions associated with deep dredged hole.

PURPOSE: The applicant's stated purpose is to restore the existing navigation channel to authorized project depth thus providing safe navigation for both commercial and recreational vessels currently using the channels, and the beneficial use of the dredged material.

A preliminary review of this application indicates that the proposed work will not effect threatened and endangered species. While Atlantic Sturgeon (Acipenser oxyrinchus), Kemp's ridley sea turtle (Lepidochelys kempii), loggerhead sea turtle (Caretta caretta), green sea turtle (Chelonia mydas), leatherback sea turtle (Dermochelys coriacea) and hawksbill sea turtle (Eretmochelys imbricate) are possibly in the vicinity, due to the water depths and boating activity, these species are not likely present.

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 those 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. A Department of the Army permit will be granted unless the District Engineer determines that it would be contrary to the public interest.

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 the 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.

Comments on the proposed work should be submitted, in writing, within 30 days to the District Engineer, U.S. Army Corps of Engineers, Philadelphia District, Wanamaker Building, 100 Penn Square East, Philadelphia, Pennsylvania 19107-3390.

Review of the National Register of Historic Places indicates that no registered properties or properties listed as eligible for inclusion therein are located within the permit area of the work. The permit area has been so extensively modified and previously dredged that little likelihood exists for the proposed project to impact a historic property.

The Magnuson-Stevens Fishery Conservation and Management Act, as amended by the Sustainable Fisheries Act 1996 (Public Law 104-267), requires all Federal agencies to consult with the National Marine Fisheries Service on all actions, or proposed actions, permitted, funded, or undertaken by the agency that may adversely effect Essential Fish Habitat (EFH). A preliminary assessment of the species listed in the "Guide to Essential Fish Habitat Designations in the Northeastern United States, Volume IV: New Jersey and Delaware", dated March 1999, indicates that the project would result in an adverse effect to EFH. In order to avoid or minimize impacts to EFH species from the dredging, specifically Winter Flounder (*Pseudopleuronectes americanus*), the USACE is recommending no in-water work will be authorized between January 1st and May 31st of any given year. Additionally, due to the proximity of the dredging and deposition of dredged material, additional seasonal restrictions may be necessary to protect surrounding submerged aquatic vegetation. As the process proceeds any additional impacts will be reviewed more extensively as more information becomes available.

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 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 Coastal Zone Management (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 of the proposed and/or existing activity on the State's coastal zone should be sent to this office, with a copy to the State's Office of Coastal Zone Management.

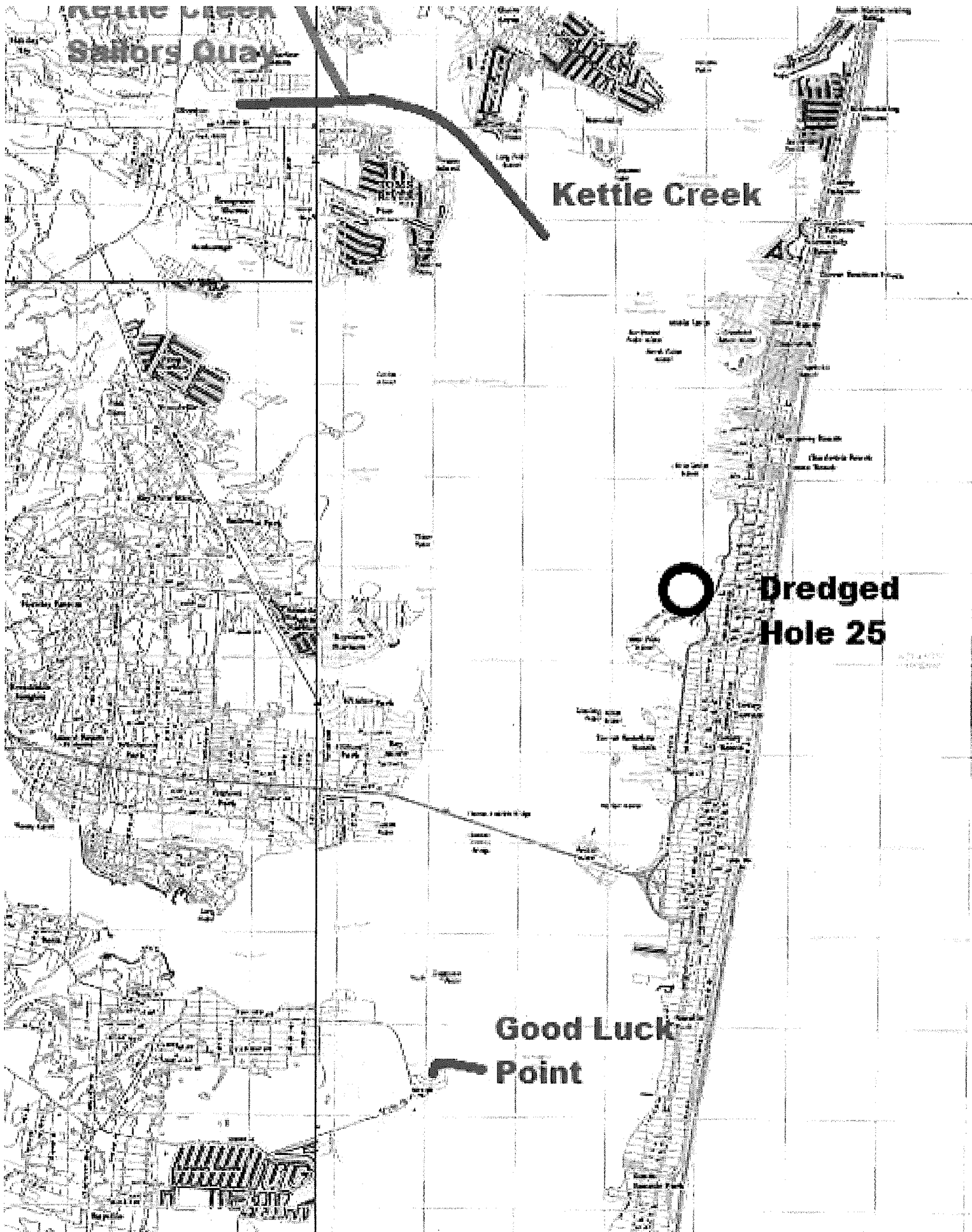
In accordance with Section 401 of the Clean Water Act, a Water Quality Certificate is necessary from the State government in which the work is located. Any comments concerning the work described above which relate to Water Quality considerations should be sent to this office with a copy to the State.

The evaluation of the impact of the work described above on the public interest 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.

Any person may request, in writing, to the District Engineer, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for a public hearing shall state in writing, with particularity, the reasons for holding a public hearing.

Additional information concerning this permit application may be obtained by calling Mr. Michael Hayduk at (215) 656-5822, via email at michael.h.hayduk@usace.army.mil or writing this office at the above address.

Edward E. Bonner
Chief, Regulatory Branch



Kettle Creek
Sailors Quay

Kettle Creek

**Dredged
Hole 25**

**Good Luck
Point**

[illegible]

GRAPHIC SCALE (FT)

400' 000' 100'

RANGE OF TIDE (FT)
NOT TO SCALE

CRITICAL SPHERICAL LOCATION

 0 20 40 60 80 100

0 20 40 60 80 100

0 20 40 60 80 100

ROAD/PAVEMENT
NO NEW WORK FROM A MUNICIPALITY LIMIT
☒ ☐

0.000000	CHANNEL LIMIT
0.000000	APPROXIMATE SCHEDULING (MINS.)
0.000000	APPROXIMATE PICKUP LOCATION

LEGEND

----- CHANNEL CONTINUITY

4. Aerial imagery is from the USGS Digital Data Information Network, dated 2015.

3. DISTING SHELLING (HMT) & DOCK LOCATIONS ARE BASED ON AERIAL IMAGERY AND SHOULD BE CONSIDERED APPROXIMATE.

2. COORDINATES ARE EXPRESSED IN TEXT AND REFERENCES TO THE NEW JERSEY STATE PLANE GRID COORDINATE ADMINISTRATION (NJDA) DATUM TRANSFORMATION PROGRAM, VERSION 3.0.

1. VERTICAL DATUM IS IN REFERENCE TO MEAN LOW WATER (MLW). MLW IS 0.52 FEET BELOW THE NORTH

TYPICAL SECTION: KETTLE CREEK SAILORS QUAY CHANNEL

L'INDICANDO CONFORME ALLE NORME E INFORMATICA

SCALE 1" = 4000'



PROJECT LOCATION MAP

LOCATION

DREDGE
HOLE#25

A black and white photograph showing a person in a small boat on a river. In the background, there is a large, ornate structure, possibly a temple or a bridge, with intricate carvings and a prominent spire. The scene is captured in a high-contrast, grainy style.

LOCATION



PIPELINE LOCATION

APPROXIMATE

CHANNEL
AREA

PROJECT

[illegible][illegible]

SPORT	NORTHINGTON		EXETER
	HOME	AWAY	
1	424.11		344.83
2	424.01		347.83
3	424.01		347.73
4	424.01		347.73
5	424.01		347.73
6	424.01		347.73
7	424.01		347.73
8	424.01		347.73
9	424.01		347.73
10	424.01		347.73
11	424.01		347.73
12	424.01		347.73
13	424.01		347.73
14	424.01		347.73
15	424.01		347.73
16	424.01		347.73
17	424.01		347.73
18	424.01		347.73
19	424.01		347.73
20	424.01		347.73
21	424.01		347.73
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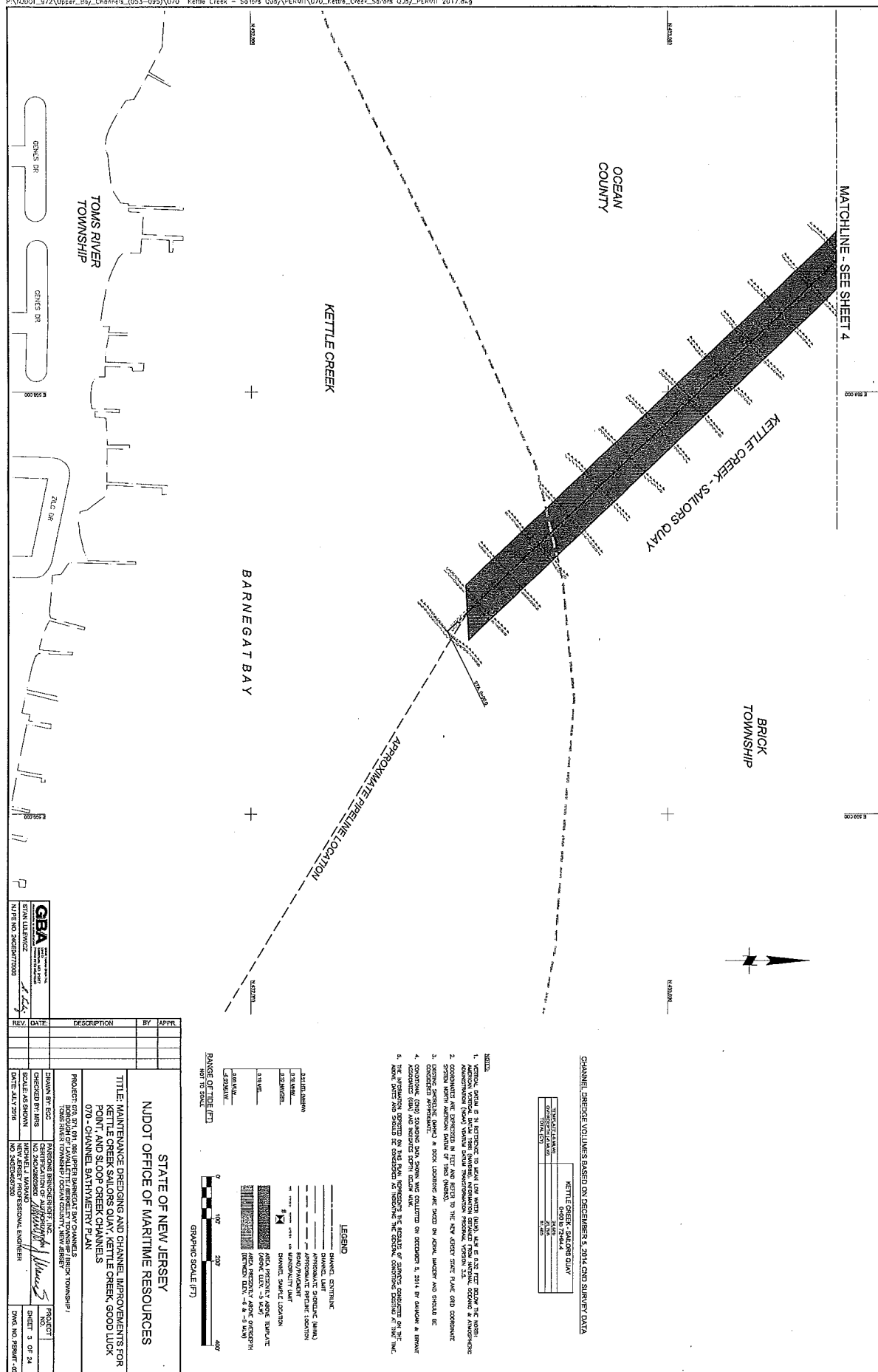
STATION	NORTHING	EASTING
14-003	433,818.9	562,224.8
14-008	433,077.3	562,277.8
27-012	434,097.3	562,077.8
34-048	434,000.8	561,311.8
41-046	435,015.3	561,272.3
48-074	436,117.6	559,405.8
51-077	435,265.3	559,227.8
54-024	435,377.2	559,300.3
56-010	435,468.8	560,763.4
60-016	437,282.0	560,365.3
60-046	437,201.7	560,466.2
60-062	437,291.7	560,466.7
61-018	437,716.3	560,467.2
73-011	438,072.3	560,572.3
75-044	438,117.3	560,611.4

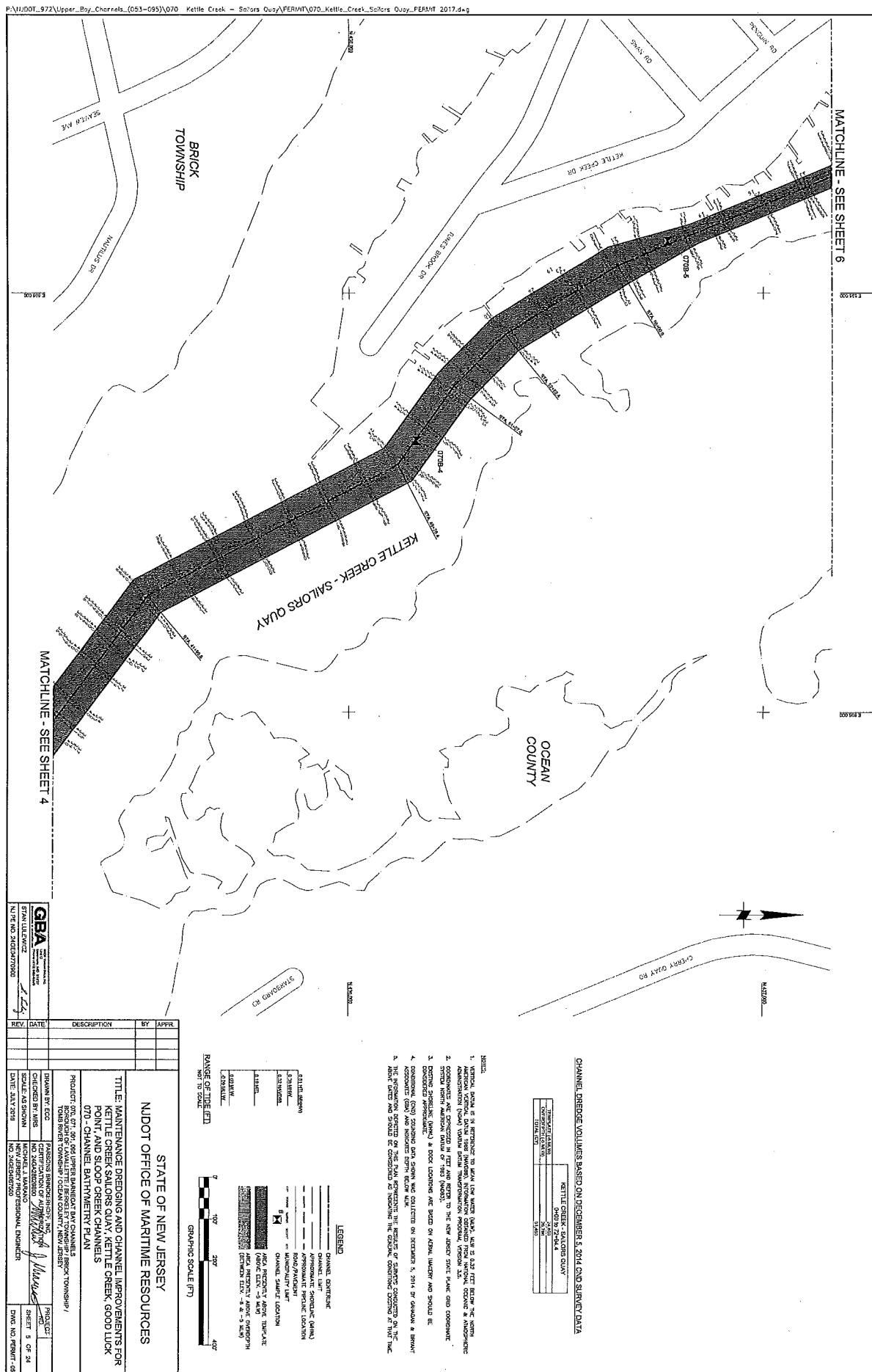
SAMPLE LOCATION COORDINATES		
SAMPLE	NORTHING	EASTING
ST04-1	42,423.7	507,999.8
ST04-2	42,531.6	508,972.0
ST04-3	42,538.0	508,002.2
ST05-4	42,603.1	506,322.4
ST05-5	42,770.0	506,875.8
ST05-6	427,002.0	504,400.2

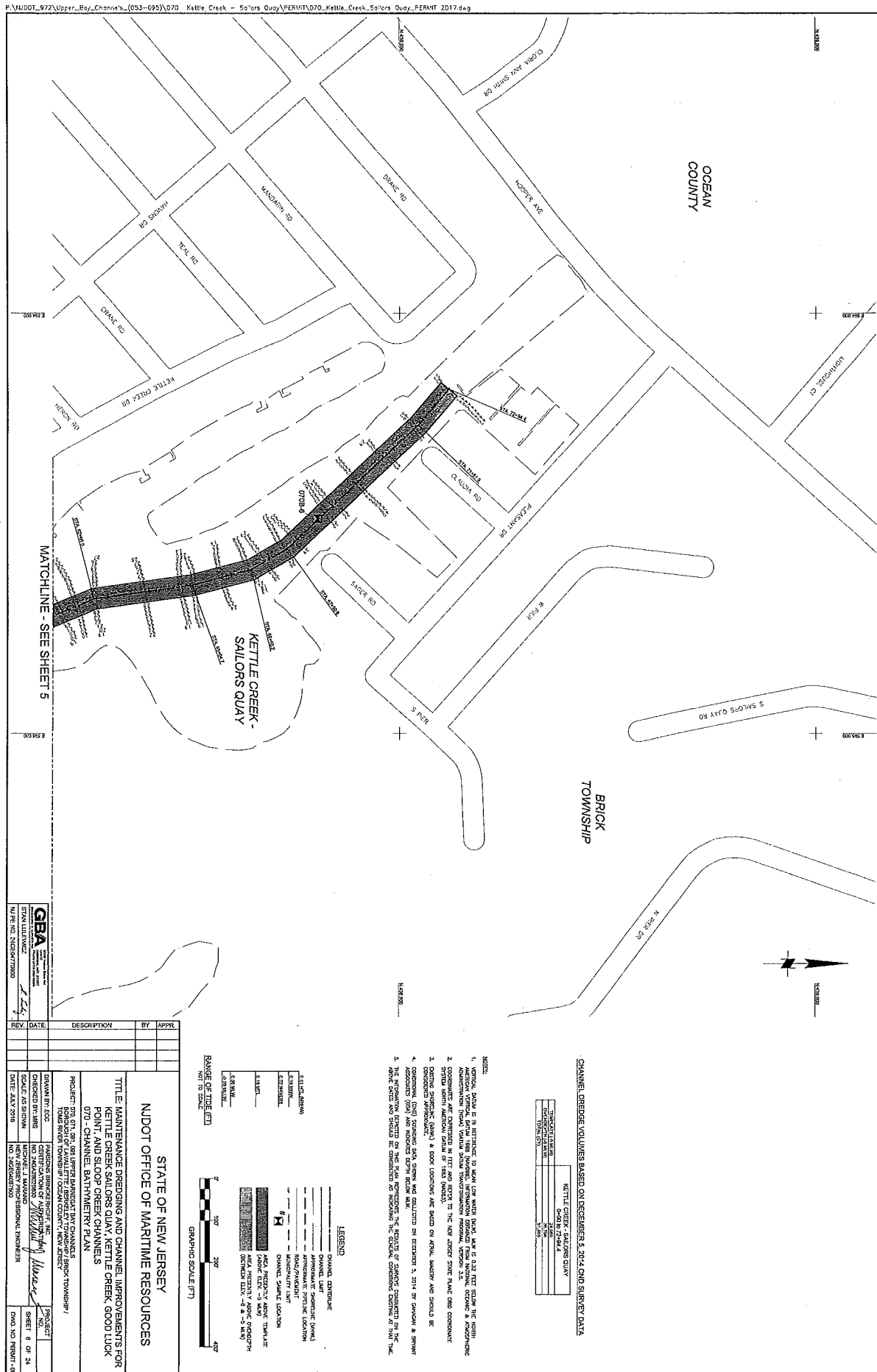
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NOTES:

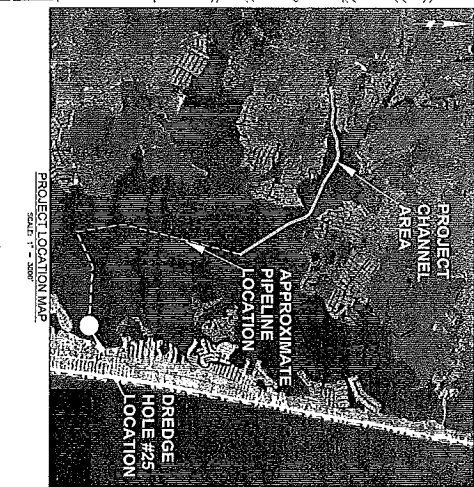
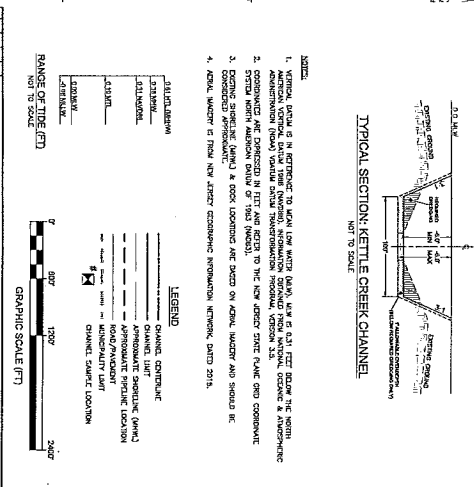
1. COORDINATES ARE DERIVED IN TEXT AND REFER TO THE NEW JERSEY STATE PLANT GRID COORDINATE SYSTEM NORTH AMERICAN DATUM OF 1983 (NAD83).







REV.	DATE	DESCRIPTION	BY	AFTER
		TITLE: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR KENTLE CREEK SALOR CLAY, KENTLE CREEK, GOOD LUCK POINT, AND SLOOF OVER BANKS 071 - CHANNEL MANAGEMENT & GEOMETRY PLAN		
		PROJECT NO. 67, 80, 90A UPPER MANAWATU BAY CANALS (TOWNSHIP) TOWN OF WINTER TOWN / DECATUR COUNTY, NEW JERSEY		
		DRAWN BY: ECC		
		CHECKED BY: MRS		
		SICL AS SHOWN		
		DATE: JULY 8/98		
		DESIGNED BY: MICHAEL J. LANDAUO		
		NO. REVISIONS		
		MICHAEL J. LANDAUO		
		PERS. OR PROFESSIONAL ENGINEER		
		PROJECT NO.		
		SHEET 7 OF 24		
		DWG. NO. PERMIT #:		



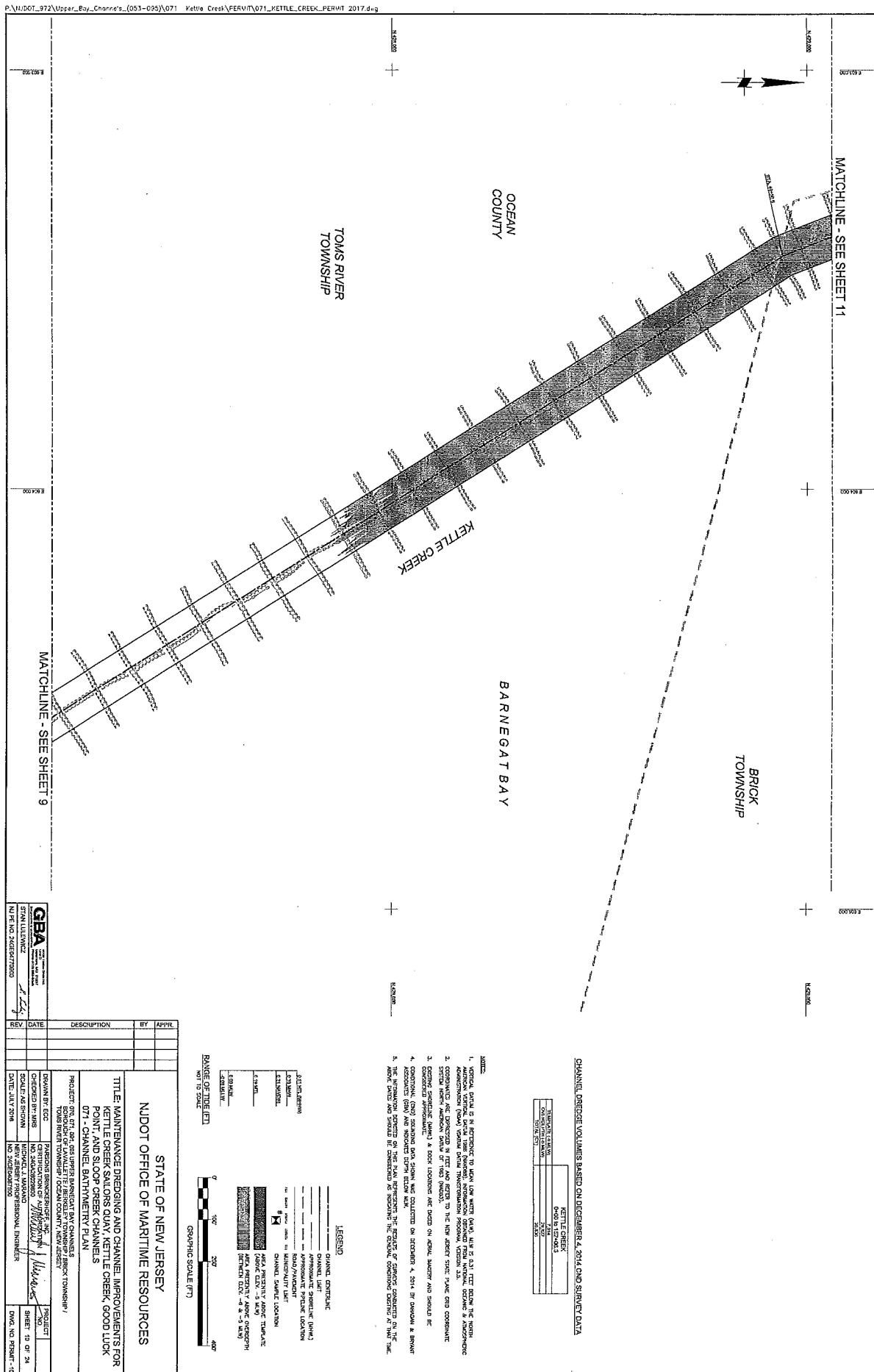
KETTLE CREEK CHANNEL			
POINT	NORTHING	EASTING	STATION
1	42433.2	60453.8	1
2	42434.4	60453.2	2
3	42434.7	60453.2	3
4	42435.7	60453.2	4
5	42436.2	60453.2	5
6	42437.8	60453.2	6
7	42438.3	60453.2	7
8	42438.3	60453.2	8
9	42438.3	60453.2	9
10	42438.3	60453.2	10
11	42438.3	60453.2	11
12	42438.3	60453.2	12
13	42438.3	60453.2	13
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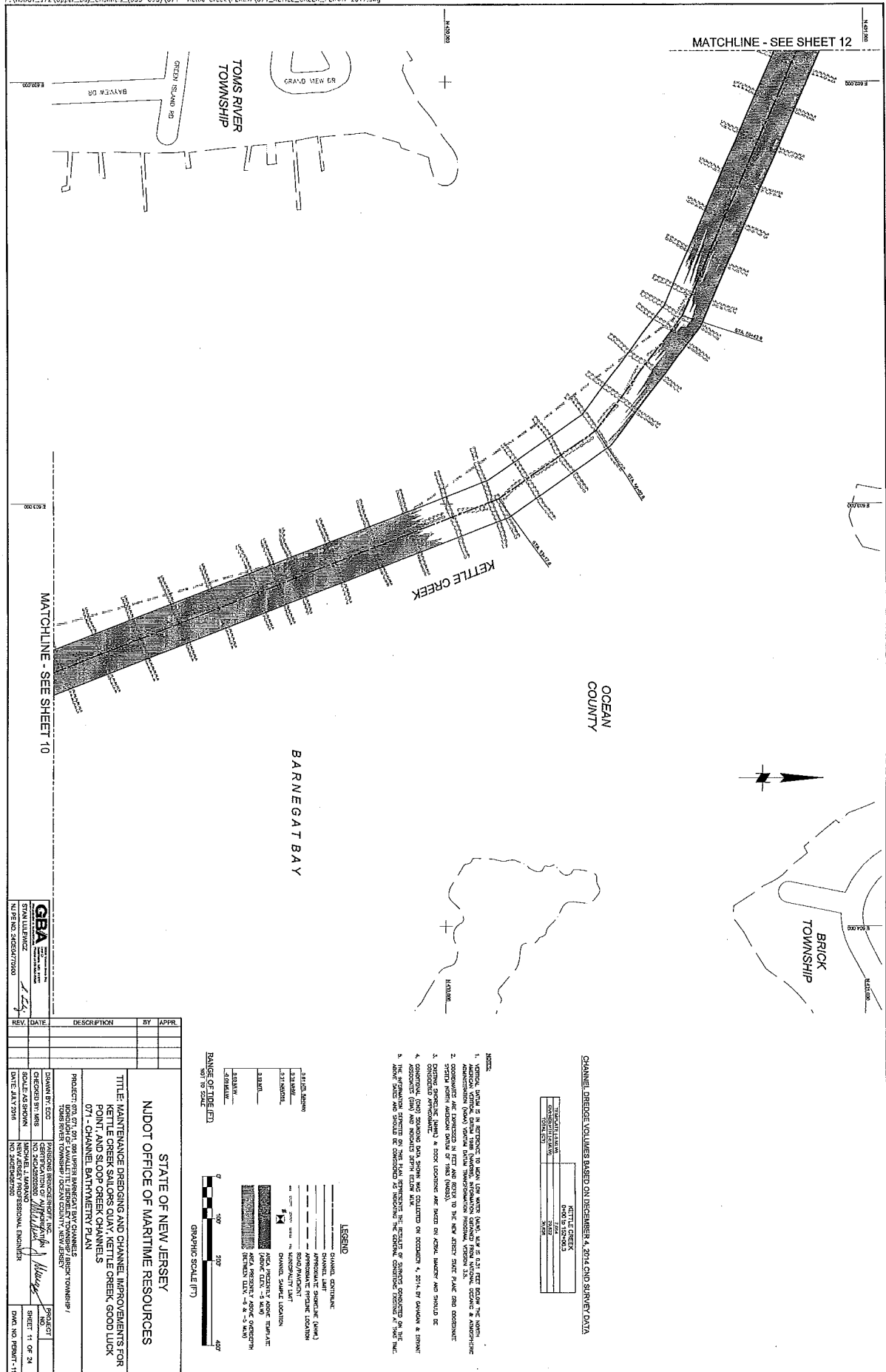
KETTLE CREEK CHANNEL CENTERLINE			
STATION	NORTHING	EASTING	STATION
1	42433.2	60453.8	1
2	42434.4	60453.2	2
3	42434.7	60453.2	3
4	42435.7	60453.2	4
5	42436.2	60453.2	5
6	42437.8	60453.2	6
7	42438.3	60453.2	7
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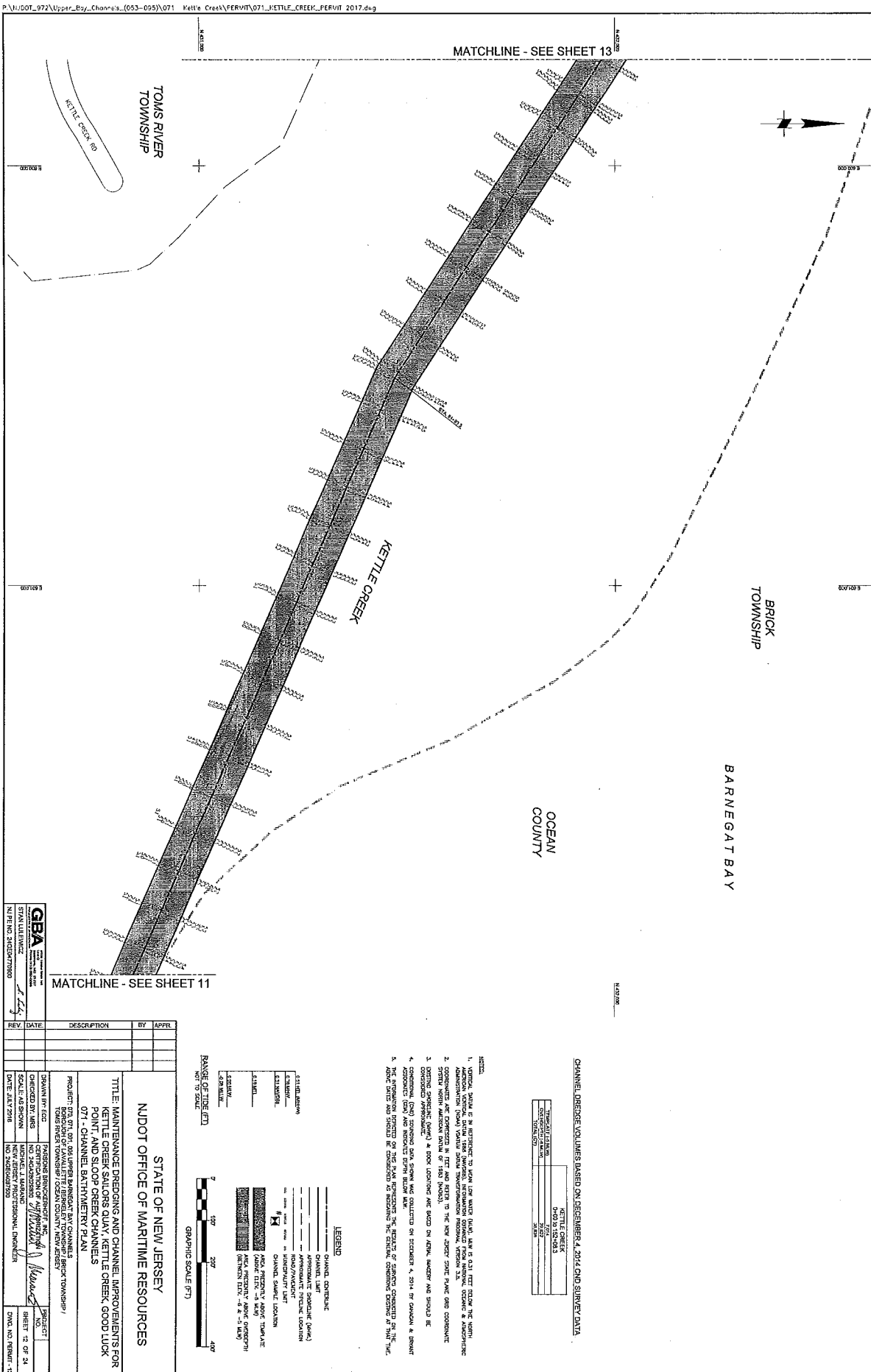
KETTLE CREEK SAMPLE LOCATION			
STATION	NORTHING	EASTING	STATION
1	42433.2	60453.8	1
2	42434.4	60453.2	2
3	42434.7	60453.2	3
4	42435.7	60453.2	4
5	42436.2	60453.2	5
6	42437.8	60453.2	6
7	42438.3	60453.2	7
8	42438.3	60453.2	8
9	42438.3	60453.2	9
10	42438.3	60453.2	10
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13	42438.3	60453.2	13
14	42438.3	60453.2	14
15	42438.3	60453.2	15
16	42438.3	60453.2	16
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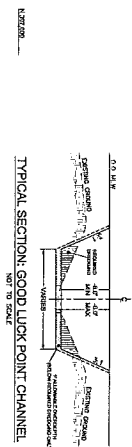
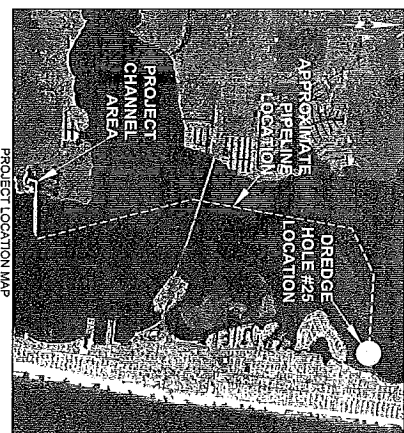
NOTES:
1. COORDINATES ARE BASED ON THE NEW JERSEY STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM OF 1983 (NAD83).

STATE OF NEW JERSEY NJDOT OFFICE OF MARITIME RESOURCES	
TITLE: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR KETTLE CREEK SALORS QUAY, KETTLE CREEK, GOOD LUCK POINT, AND SLOOP CREEK CHANNELS 071 - CHANNEL GEOMETRY & SAMPLING COORDINATE TABLES	
PROJECT: 071-071-001, UPPER BARNESDALE BAY CHANNELS TOWNSHIP OF TOWNSHIP / OCEAN COUNTY, NEW JERSEY	
DESIGNED BY: EDC CHECKED BY: JMS SCALE: AS SHOWN DATE: JULY 2016	
DRAWN BY: JMS CHECKED BY: JMS SCALE: AS SHOWN DATE: JULY 2016	
PROJECT NO. 071-071-001 SHEET 8 OF 24 DWG NO. PERMIT-26	









NOTES:

1. VERTICAL DATA IS IN REFERENCE TO MEAN LOW WATER (MLW). MLW IS 0.23 FEET BELOW THE NORTH AMERICAN VERTICAL DATUM 1988 (NOVD80). INFORMATION FROM THE NATIONAL COASTAL AND ATMOSPHERIC ADMINISTRATION (NCAA) VERTICAL DATUM INVESTIGATION PROGRAM, VERSION 2.5.
2. COORDINATE ARE COLOCATED IN FEET AND METERS TO THE NEW OBJECT STATE PLANE GRID COORDINATE SYSTEM NORTH AMERICAN DATUM OF 1983 (NAD83).
3. DENSE SURFACE (DENV) & ROCK LOCATIONS ARE BASED ON ACOAL INVENTORY AND SHOULD BE CONSIDERED APPROXIMATE.
4. ACOAL INVENTORY IS FROM AN EFFECT COASTAL INFORMATION NETWORK, DATED 2012.

LEGEND	
CHANEL CONTINENT	CHANEL CONTINENT
CHANEL LIGHT	CHANEL LIGHT
CHANEL CLASSIC SPECIFIC (CHANEL CLASSIC SPECIFIC)	CHANEL CLASSIC SPECIFIC (CHANEL CLASSIC SPECIFIC)
CHANEL CLASSIC	CHANEL CLASSIC
CHANEL CLASSIC LOCATION	CHANEL CLASSIC LOCATION

[illegible]

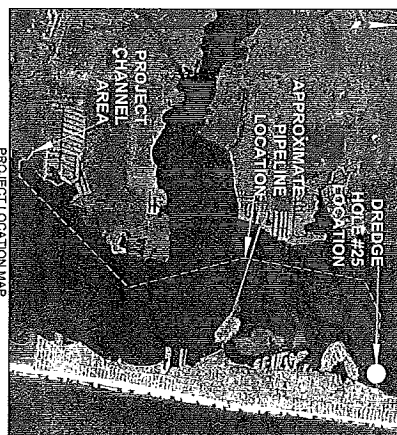
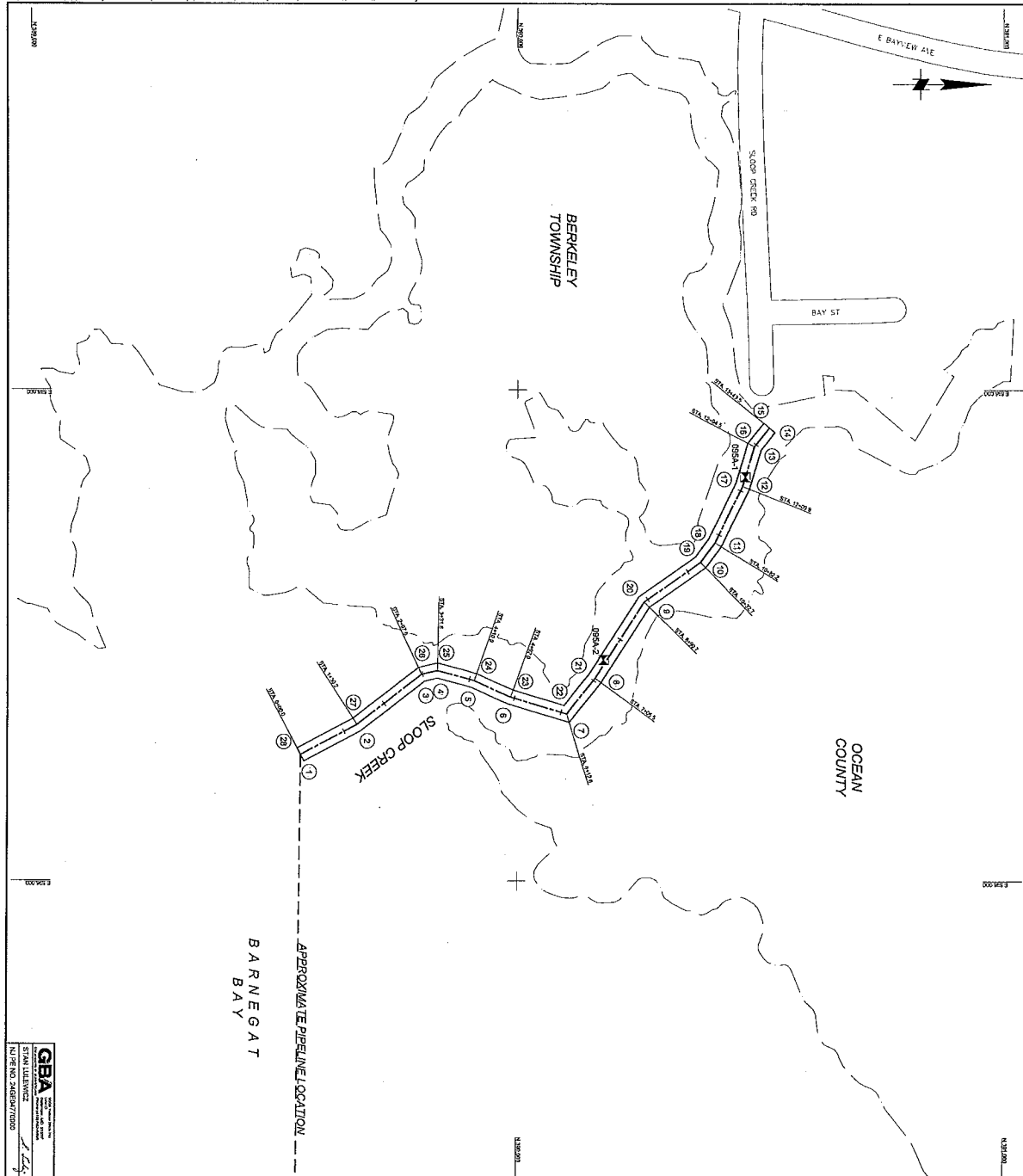
GOOD LUCK POINT CHANNEL			
COORDINATES			
POINT	NAD 83	NAD 83	EASTING
1	596,711.2	607,452.3	607,452.3
2	596,693.1	607,451.2	607,451.2
3	596,680.1	607,451.8	607,451.8
4	596,688.2	607,451.3	607,451.3
5	596,687.2	607,451.3	607,451.3
6	597,083.1	607,450.3	607,450.3
7	597,083.2	607,451.1	607,451.1
8	597,042.3	607,451.7	607,451.7
9	597,042.1	607,451.2	607,451.2
10	597,042.2	607,451.2	607,451.2
11	597,042.2	607,451.2	607,451.2
12	597,042.2	607,451.2	607,451.2
13	597,042.2	607,451.2	607,451.2
14	597,042.2	607,451.2	607,451.2
15	597,042.2	607,451.2	607,451.2
16	597,042.2	607,451.2	607,451.2
17	597,042.2	607,451.2	607,451.2
18	597,042.2	607,451.2	607,451.2
19	597,042.2	607,451.2	607,451.2
20	597,042.2	607,451.2	607,451.2
21	597,042.2	607,451.2	607,451.2
22	597,042.2	607,451.2	607,451.2

GOOD LUCK POINT CHANNEL CENTERLINE			
COORDINATES			
STATION	NAD 83	NAD 83	EASTING
50+0.0	596,711.2	607,452.3	607,452.3
50+10.0	596,693.1	607,451.2	607,451.2
50+20.0	596,680.1	607,451.8	607,451.8
50+30.0	596,688.2	607,451.3	607,451.3
50+40.0	596,687.2	607,451.3	607,451.3
50+50.0	597,083.1	607,450.3	607,450.3
50+60.0	597,083.2	607,451.1	607,451.1
50+70.0	597,042.3	607,451.7	607,451.7
50+80.0	597,042.1	607,451.2	607,451.2
50+90.0	597,042.2	607,451.2	607,451.2
51+00.0	597,042.2	607,451.2	607,451.2

GOOD LUCK POINT CHANNEL			
SAMPLE LOCATION COORDINATES			
STATION	NAD 83	NAD 83	EASTING
50+0.0	596,711.2	607,452.3	607,452.3
50+10.0	596,693.1	607,451.2	607,451.2
50+20.0	596,680.1	607,451.8	607,451.8
50+30.0	596,688.2	607,451.3	607,451.3
50+40.0	596,687.2	607,451.3	607,451.3
50+50.0	597,083.1	607,450.3	607,450.3
50+60.0	597,083.2	607,451.1	607,451.1
50+70.0	597,042.3	607,451.7	607,451.7
50+80.0	597,042.1	607,451.2	607,451.2
50+90.0	597,042.2	607,451.2	607,451.2
51+00.0	597,042.2	607,451.2	607,451.2

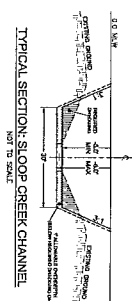
NOTES:
1. COORDINATES ARE EXPRESSED IN UTM AND REFER TO THE NEW JERSEY STATE PLANE GRID COORDINATE SYSTEM (NORTH AMERICAN DATUM OF 1983 (NAD83)).

STATE OF NEW JERSEY NJDOT OFFICE OF MARITIME RESOURCES	
TITLE: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR KETTLE CREEK SALDORS QUAY, KETTLE CREEK, GOOD LUCK POINT, AND SLOOP CREEK CHANNELS 091 - CHANNEL GEOMETRY & SAMPLING COORDINATE TABLES	
PROJECT: 501.011.01.001 UPPER JAMESON BAY CHANNELS TOWNSHIP OF JAMESON, COCAIN COUNTY, NEW JERSEY	
DESIGNED BY: GCS	DESIGNED BY: GCS
CHECKED BY: MRS	CHECKED BY: MRS
SCALE: AS SHOWN	SCALE: AS SHOWN
DATE: MAY 2018	DATE: MAY 2018
PROJECT NO: 501.011.01.001	PROJECT NO: 501.011.01.001
DESIGNED BY: GCS	DESIGNED BY: GCS
CHECKED BY: MRS	CHECKED BY: MRS
SCALE: AS SHOWN	SCALE: AS SHOWN
DATE: MAY 2018	DATE: MAY 2018
PROJECT NO: 501.011.01.001	PROJECT NO: 501.011.01.001
DESIGNED BY: GCS	DESIGNED BY: GCS
CHECKED BY: MRS	CHECKED BY: MRS
SCALE: AS SHOWN	SCALE: AS SHOWN
DATE: MAY 2018	DATE: MAY 2018
PROJECT NO: 501.011.01.001	PROJECT NO: 501.011.01.001



PROJECT LOCATION MAP
SCALE: 1" = 4000'

SCALE: 1" = 4000'



TYPICAL SECTION: SLOOP CREEK CHANNEL

NOT TO SCALE

- [illegible]

LEGEND

- | |
|-------------------------------|
| CHANNL CONTR'NG |
| CHANNL LIFT |
| APPROXIMATE SPILLING POINT |
| APPROXIMATE SPILLING LOCATION |
| ROAD/VISIBILITY |
| CHANNL SOURCE LOCATION |

RANGE OF TIDE (FT)
NDT TO SCALE

GRAPHIC SCALE (FT)

STATE OF NEW JERSEY

NJDOT OFFICE OF MARITIME RESOURCES

TITLE: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR KETTLE CREEK SAULORS QUAY, KETTLE CREEK, GOOD LUCK POINT, AND SLOOP CREEK CHANNELS

095 - CHANNEL ARRANGEMENT & GEOMETRY PLAN

PROJECT: 071, 091, 005 UPPER BARNEGAT BAY CHANNELS
BOROUGH OF LAVALLETTE / NEKEE TOWNSHIP / TRICK TOWNSHIP /

TOMAS RIVER TOWNSHIP / OCEAN COUNTY, NEW JERSEY

DRAWN BY: ECC	PARSONS BRINCKERHOFF, INC.
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CERTIFICATION OF MAILING	CHECKED BY: MRS
NO. 240A28C2DE00	<i>[Signature]</i>

SCALE AS SHOWN

MICHAEL J. MARANO
NEW JERSEY PROFESSIONAL ENGINEER

DATE: JULY 2018	NO. 24QED067500	D
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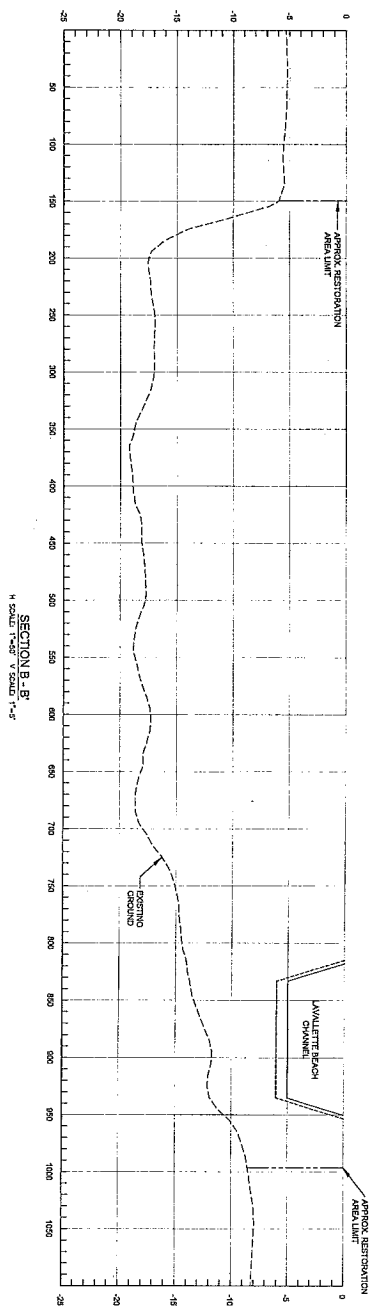
SLOOP CREEK CHANNEL COORDINATES			
POINT	NORTHING	EASTING	LISTING
1	506204.4	506376.2	
2	506077.3	506394.5	
3	506000.5	506320.3	
4	506154.8	506337.3	
5	506271.2	506354.2	
6	506396.7	506363.6	
7	506506.7	506377.3	
8	506577.4	506396.2	
9	506597.7	506462.4	
10	506627.2	506521.6	
11	506634.2	506531.6	
12	506639.3	506531.6	
13	506639.3	506531.6	
14	506639.3	506531.6	
15	506639.3	506531.6	
16	506639.3	506531.6	
17	506639.3	506531.6	
18	506639.3	506531.6	
19	506639.3	506531.6	
20	506639.3	506531.6	
21	506639.3	506531.6	
22	506639.3	506531.6	
23	506639.3	506531.6	
24	506639.3	506531.6	
25	506639.3	506531.6	
26	506639.3	506531.6	
27	506639.3	506531.6	
28	506639.3	506531.6	

SLOOP CREEK CHANNEL CENTERLINE COORDINATES			
STATION	NORTHING	EASTING	LISTING
0+00.0	506384.3	506376.2	
1+00.0	506384.3	506376.2	
2+00.0	506384.3	506376.2	
3+00.0	506384.3	506376.2	
4+00.0	506384.3	506376.2	
5+00.0	506384.3	506376.2	
6+00.0	506384.3	506376.2	
7+00.0	506384.3	506376.2	
8+00.0	506384.3	506376.2	
9+00.0	506384.3	506376.2	
10+00.0	506384.3	506376.2	
11+00.0	506384.3	506376.2	
12+00.0	506384.3	506376.2	
13+00.0	506384.3	506376.2	
14+00.0	506384.3	506376.2	
15+00.0	506384.3	506376.2	
16+00.0	506384.3	506376.2	
17+00.0	506384.3	506376.2	
18+00.0	506384.3	506376.2	
19+00.0	506384.3	506376.2	
20+00.0	506384.3	506376.2	
21+00.0	506384.3	506376.2	
22+00.0	506384.3	506376.2	
23+00.0	506384.3	506376.2	
24+00.0	506384.3	506376.2	
25+00.0	506384.3	506376.2	
26+00.0	506384.3	506376.2	
27+00.0	506384.3	506376.2	
28+00.0	506384.3	506376.2	

SLOOP CREEK SAMPLE LOCATION COORDINATES			
SAMPLE	NORTHING	EASTING	LISTING
000A	506376.2	506376.2	
000B	506376.2	506376.2	
000C	506376.2	506376.2	
000D	506376.2	506376.2	
000E	506376.2	506376.2	
000F	506376.2	506376.2	
000G	506376.2	506376.2	
000H	506376.2	506376.2	
000I	506376.2	506376.2	
000J	506376.2	506376.2	
000K	506376.2	506376.2	
000L	506376.2	506376.2	
000M	506376.2	506376.2	
000N	506376.2	506376.2	
000O	506376.2	506376.2	
000P	506376.2	506376.2	
000Q	506376.2	506376.2	
000R	506376.2	506376.2	
000S	506376.2	506376.2	
000T	506376.2	506376.2	
000U	506376.2	506376.2	
000V	506376.2	506376.2	
000W	506376.2	506376.2	
000X	506376.2	506376.2	
000Y	506376.2	506376.2	
000Z	506376.2	506376.2	

STATE OF NEW JERSEY NJDOT OFFICE OF MARITIME RESOURCES	
TITLE: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR KETTLE CREEK SALMONS QUAY, KETTLE CREEK, GOOD LUCK POINT, AND SLOOP CREEK CHANNELS 095 - CHANNEL GEOMETRY & SAMPLING COORDINATE TABLES	
PROJECT: 095 - 095 UPPER BAY CHANNELS TOWNSHIP: TOWNSHIP 1, DEAN COUNTY, NEW JERSEY	
DESIGNED BY: EDC	DESIGNED BY: MICHAEL J. WARD
CHECKED BY: MRS	CHECKED BY: MICHAEL J. WARD
DATE: MAY 2018	DATE: MAY 2018
DRAWN BY: EDC	
SCALE: AS SHOWN	
DATE: MAY 2018	
PROJECT NO. 24	
SHEET 21 OF 24	
DWG NO. PERMIT - 21	

NOTES:
1. COORDINATES ARE GIVEN IN NAD 83 AND UTM TO THE NEW JERSEY STATE PLANE GRID COORDINATE SYSTEM.
2. COORDINATES ARE GIVEN IN NAD 83 AND UTM TO THE NEW JERSEY STATE PLANE GRID COORDINATE SYSTEM.

[illegible][illegible]