

## 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-2016-847-35	
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: Beaver Dam Creek North, Beaver Dam Creek South, Bay Head Channel, Green Cove Channel, Upper Metedeconk River and Winter Yacht Basin Channels.

LOCATION: Upper Barnegat Bay at Beaver Dam Creek North (#53) channel located in Pt. Pleasant and Brick Townships, Beaver Dam Creek South (#54) channel located in Brick Township, Bay Head (#57) channel located in Bay Head Borough, Green Cove (#58) channel located in Brick Township, Upper Metedeconk River (#59) channel located in Brick Township and Winter Yacht Basin (#61) channel located in Brick Township, Ocean County, New Jersey. Approximately 138,837 cyd of sand and silt material will be hydraulically dredged from the six channels and placed as restorative fill at the Dredged Hole #18 located in Mantoloking 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 one hundred thirty eight thousand eight hundred thirty seven cubic yards (~138,837 yds³) of sediment comprised of sand and silt, from approximately eight thousand six hundred sixty eight linear feet (~8,868') of Beaver Dam Creek North, eight thousand six hundred ninety one linear feet (~8,691') of Beaver Dam Creek South, eight hundred seventy eight linear feet (~878') of Bay Head channel, eight hundred ninety one linear feet (~891') of Green Cove channel, four thousand seven hundred thirty two linear feet (~4,792') of Upper Metedeconk River channel and

seven hundred twelve linear feet (~712') of Winter Yacht Basin channel. The project depth in the Beaver Dam Creek North, Beaver Dam Creek South, Bay Head, Green Cove and Winter Yacht Basin Channels is five 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 ends of Beaver Dam Creek North and South. The project depth in the Upper Metedeconk Channel is six feet below mean low water (-6 MLW), plus one foot (1') of allowable overdredge. The channel design width of this channel is also one hundred feet (100'). Channel side slopes of all channels will be 3:1.

Maintenance dredging of Beaver Dam Creek was last authorized by the State of New Jersey Department of Environmental Protection (NJDEP) in 1988. Dredged material was placed into several shoreline a confined disposal facilities in Berkeley Township that are 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.

Material will be hydraulically dredged and transported via pipeline for use as restorative fill at the dredged hole #18 in Mantoloking 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 #18 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 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 (<u>Acipenser oxyrinchus</u>), Kemp's ridley sea turtle (<u>Lepidochelys kempii</u>), loggerhead sea turtle (<u>Caretta caretta</u>), green sea turtle (<u>Chelonia mydas</u>), leatherback sea turtle (<u>Dermochelys coriacea</u>) and hawksbill sea turtle (<u>Eretmochelys imbricate</u>) 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 (*Pseudoplueronectes 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 <a href="mailto:michael.h.hayduk@usace.army.mil">michael.h.hayduk@usace.army.mil</a> or writing this office at the above address.

Edward E. Bonner Chief, Regulatory Branch



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-2016-847-35

OCT 03 2016

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: Beaver Dam Creek North, Beaver Dam Creek South, Bay Head Channel, Green Cove Channel, Upper Metedeconk River and Winter Yacht Basin Channels.

LOCATION: Upper Barnegat Bay at Beaver Dam Creek North (#53) channel located in Pt. Pleasant and Brick Townships, Beaver Dam Creek South (#54) channel located in Brick Township, Bay Head (#57) channel located in Bay Head Borough, Green Cove (#58) channel located in Brick Township, Upper Metedeconk River (#59) channel located in Brick Township and Winter Yacht Basin (#61) channel located in Brick Township, Ocean County, New Jersey. Approximately 138,837 cyd of sand and silt material will be hydraulically dredged from the six channels and placed as restorative fill at the Dredged Hole #18 located in Mantoloking 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 one hundred thirty eight thousand eight hundred thirty seven cubic yards (~138,837 yds³) of sediment comprised of sand and silt, from approximately eight thousand six hundred sixty eight linear feet (~8,868') of Beaver Dam Creek North, eight thousand six hundred ninety one linear feet (~8,691') of Beaver Dam Creek South, eight hundred seventy eight linear feet (~878') of Bay Head channel, eight hundred ninety one linear feet (~891') of Green Cove channel, four thousand seven hundred thirty two linear feet (~4,792') of Upper Metedeconk River channel and

seven hundred twelve linear feet (~712') of Winter Yacht Basin channel. The project depth in the Beaver Dam Creek North, Beaver Dam Creek South, Bay Head, Green Cove and Winter Yacht Basin Channels is five 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 ends of Beaver Dam Creek North and South. The project depth in the Upper Metedeconk Channel is six feet below mean low water (-6 MLW), plus one foot (1') of allowable overdredge. The channel design width of this channel is also one hundred feet (100'). Channel side slopes of all channels will be 3:1.

Maintenance dredging of Beaver Dam Creek was last authorized by the State of New Jersey Department of Environmental Protection (NJDEP) in 1988. Dredged material was placed into several shoreline a confined disposal facilities in Berkeley Township that are 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.

Material will be hydraulically dredged and transported via pipeline for use as restorative fill at the dredged hole #18 in Mantoloking 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 #18 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 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 (<u>Acipenser oxyrinchus</u>), Kemp's ridley sea turtle (<u>Lepidochelys kempii</u>), loggerhead sea turtle (<u>Caretta caretta</u>), green sea turtle (<u>Chelonia mydas</u>), leatherback sea turtle (<u>Dermochelys coriacea</u>) and hawksbill sea turtle (<u>Eretmochelys imbricate</u>) 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 (*Pseudoplueronectes americanus*), the USACE is recommending no in-water work will be authorized between January 1<sup>st</sup> and May 31<sup>st</sup> 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.

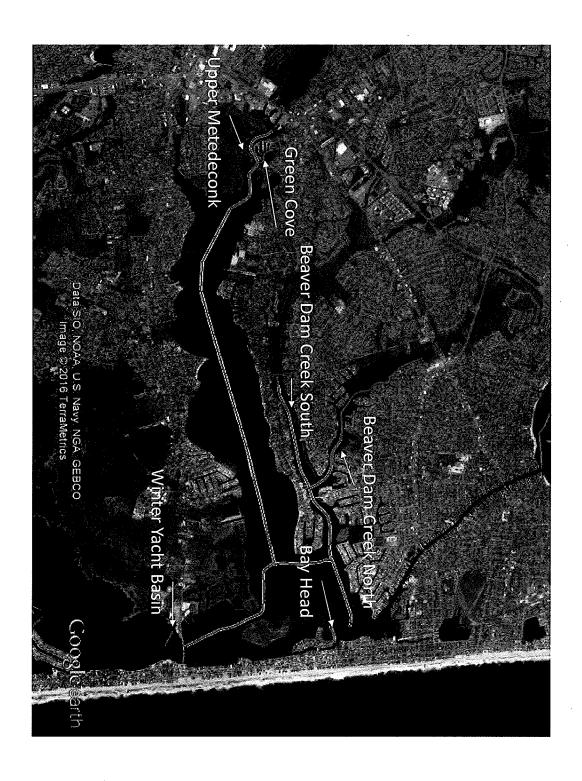
The evaluation of the impact of the work described above on the public interest will include application of the guidelines promulgated by the Administrator, U.S. Environmental Protection Agency, under authority of Section 404(b) of the Clean Water Act.

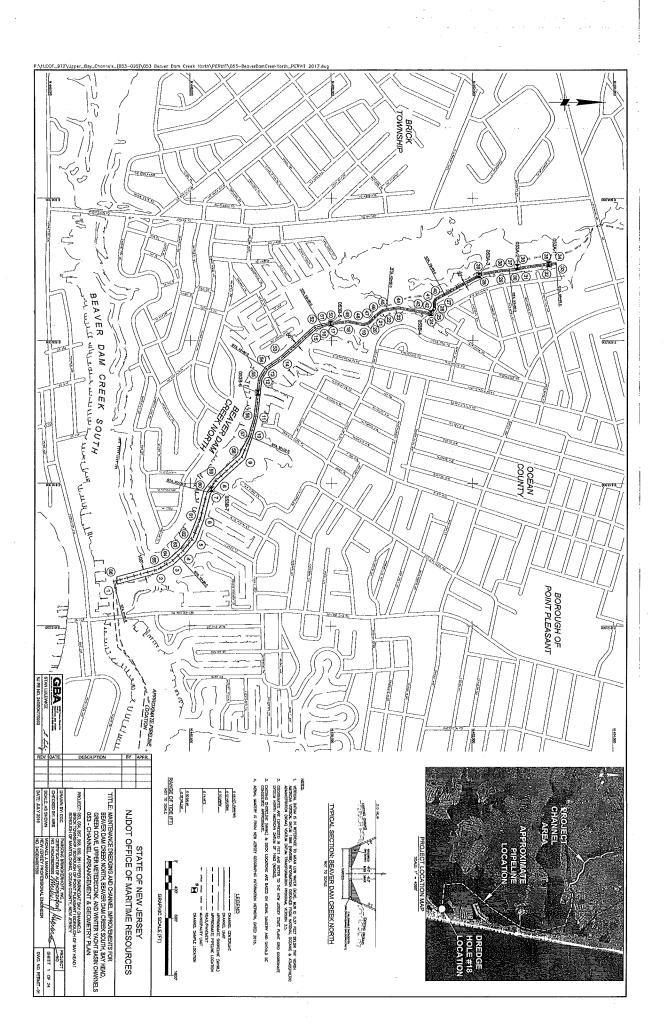
Any person may request, in writing, to the District Engineer, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for a public hearing shall state in writing, with particularity, the reasons for holding a public hearing.

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

Edward E. Bonner

Chief, Regulatory Branch





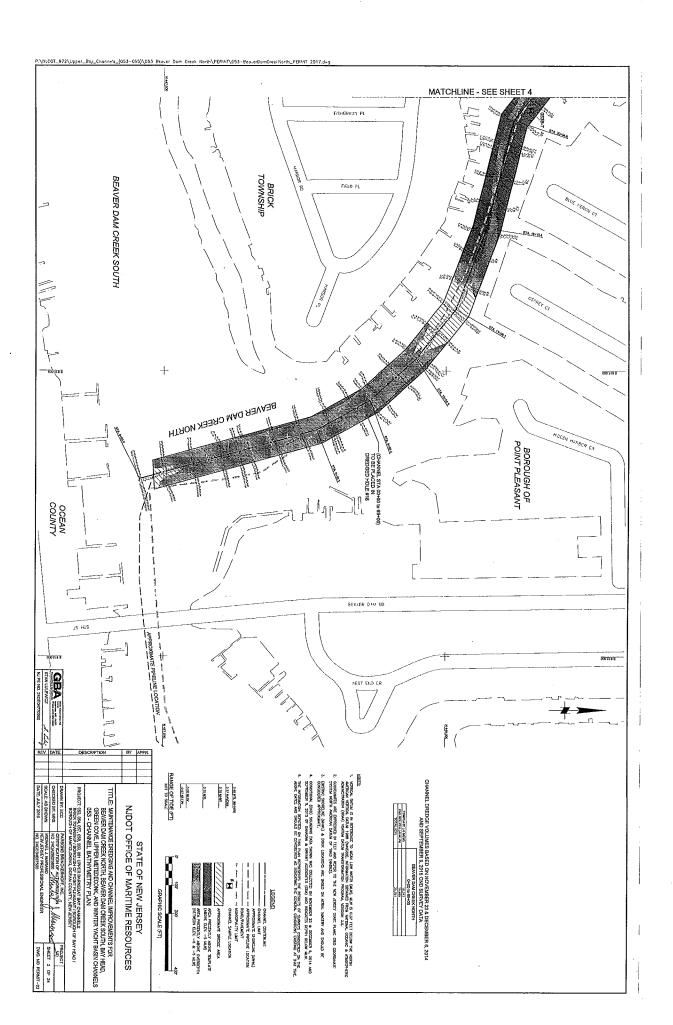
re.	ļ		***********	_	BY	Lenna	,
E	1	DE	SCRIPTION		DY.	APPR.	
_	+			-		-	
_	Į					l	1
l	DRAWN BY: ECC P	PROJECT: 053, 054, 057, 0 BRICK TOWNS BOROUGH OF	TITLE: MAINTENAN BEAVER DA GREEN COV 053 - CHAN		NJDOT		
- CERTIFICATION OF AUTOMORIZATION (1 d.f.	PARSONS BRINCKERHOFF, INC. / / /	PROJECT: 050, 054, 057, 058, 058, 051, PROTE BARNEGAT BAY CHANNELS PROJECT DEPOCHO PER PROJECT DEPOCHO PER PARTICALT BAY CHANNELS BOROUGH OF MANTOLONGO, OCEAN COUNTY, NEW JERSEY	TITLE: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR SEARED DAIL OFFER METERS OWN, AND WINTER YOA'T EASIN CHANNELS GREEN COTE, UPPER METERSCOWK, AND WINTER YOA'T EASIN CHANNELS 053 - CHANNEL GEOMETRY & SAMPLING COORDINATE TABLES		NJDOT OFFICE OF MARITIME RESOURCES	STATE OF NEW JERSEY	
	PROJECT	NELS SOUGH OF BAY HEAD / ISEY	OVEMENTS FOR TEK SOUTH, BAY HEAD, ER YACHT BASIN CHANNELS COORDINATE TABLES		RESOURCES	SEY	

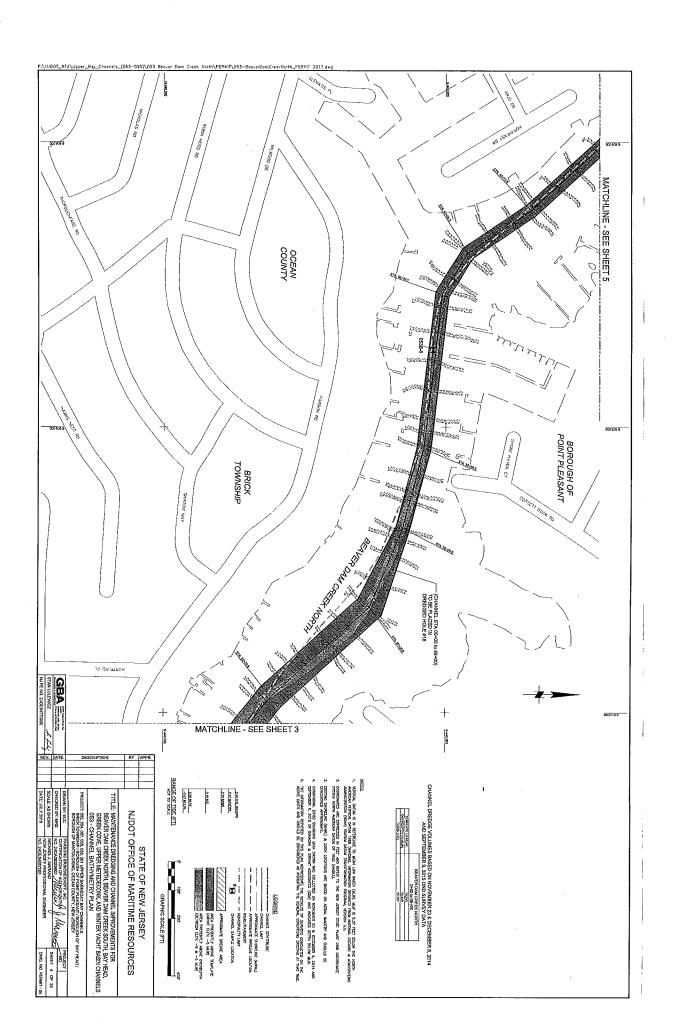
-	Ř
38	3
효효	
δå	
₹ ×	
P.A	
88	
٤ã	
8	
* 2	
ŝ	
88	
3.2	
NOS.	
57	
쿭	
Š	
ģ	
ğ	
STATE	
Ħ	
ξ	
Ť	
ä	

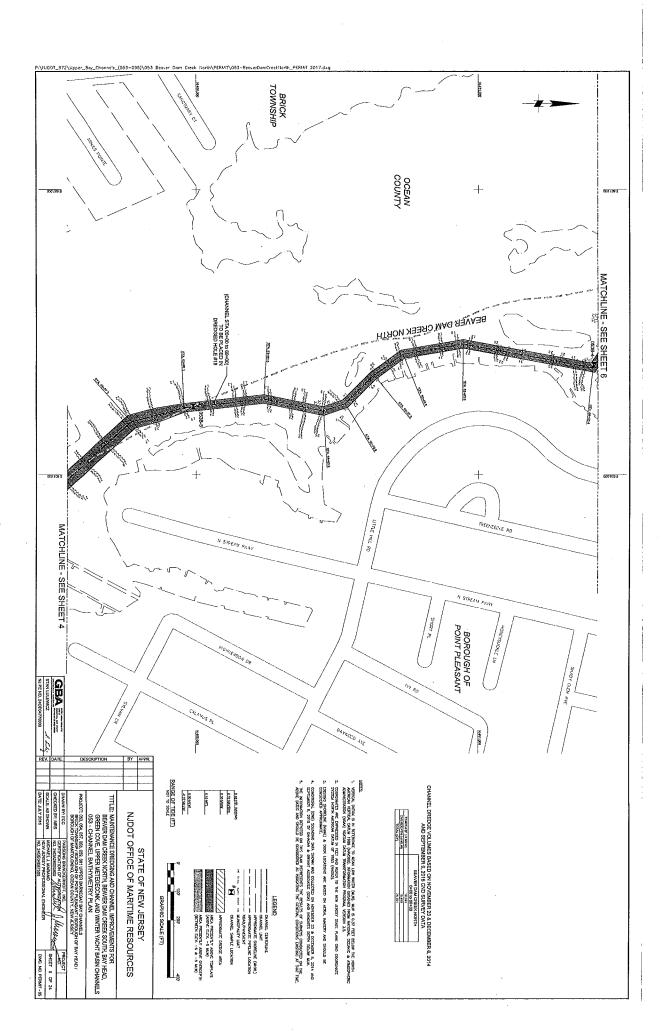
_	600,922.8	453,1843	8-06+08	0,940.4
	4100,000	453,054.0	1,00+28	0,000 0
_	606,974.1	452,738.2	62+70.6	7,022.3
_	607,007.4	402,000.0	80+67.0	£,000,7
	807,000.4	452,404.2	78+61,5	7,063.7
_	037,003.3	452,126.6	75+09.0	7,431.5
_	807,430.2	401,477.0	88+61.8	Z.489.7
-	607,401.7	481,464.7	6,40+610	7,063.0
	0,040,000	451,400.1	57+28.9	1,542,1
•	607,626.7	457,405.8	\$6-23.4	7,067.4
	607,642.2	400,940.5	61+01.9	7,592.7
	807,578.4	480,731.5	0.0	7,663.7
_	807,682.2	490,029.7	50+22.0	7,768.1
	607,7520	400,527.5	201703	7,783.2
_	607,777.7	450,450.7	80-98.9	7,760.4
	607,736.3	460,730.5	6.53+55	2,781.0
	607,766.2	440,956.5	10+99,1	7,016,0
	607,814.0	440,771.3	49+07.3	3,725,5
	608,239.3	449,330.0	42+73.6	Cestin
_	3.636,069	449,077.3	40+04.3	0.407-4
	608,534.7	448,088.3	3.EE+8E	STHUB B
_	409,075.7	448,521.7	23+86.2	1.000,0
	100,014.2	46,847.1	0.60+60	CEDIC.
_	0.000.00	446,730.6	27+00.0	Coope
	e09,945.7	446,380.2	22+26.0	T1800
	410,130.5	1.042.844	53+04.9	0,143.2
	010,459.7	448,140.4	10+13.4	0.514.0
	810,744.7	1.100,814	13+08.1	0,010.1
	615,057,5	447,893.0	10+63.0	0,902.1
	011,103.5	447,730.4	5+06·4	1,144.0
	0.707.0	47,541.2	0.00.6	,264.3
	911,378.6	446,913.6	0.00.0	1,420.0
	EASTING	NORTHING	STATION	STING
	INATES	GENTERLINE COORDINATES	BEAVER D	US Z
•				

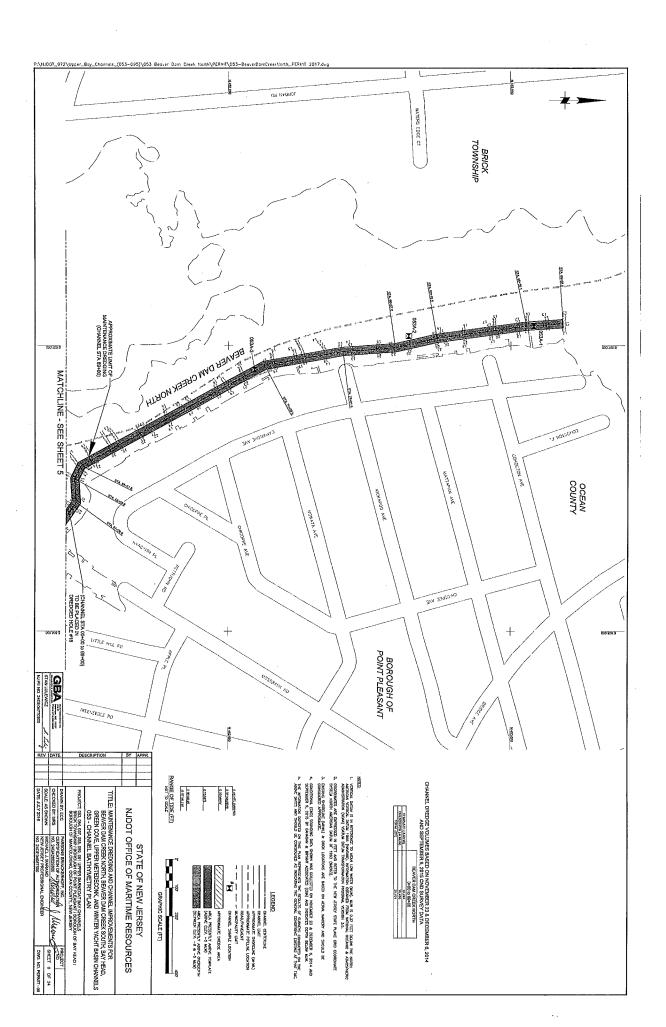
100.00	453054.0	85+20.1
606,974.1	452,736.2	8.01+08
607,007.4	482,669.3	0.25+08
807,020.4	452,404,2	78+61,5
007,000.0	452,126.6	20+020
807,430.2	451,477.5	\$3+61.a
607,401.7	481,464.7	0.00+60
0.014,700	461,400.1	67+28.9
607,625.7	451,405.8	88+33.4
607,642.2	400,940.8	8,10+19
807,678.4	480,731.5	0.04-0.0
B07,652.2	490,028.7	50+22.0
607,7520	400,527.5	201703
607,777.7	450,450.7	80+98.9
607,750	460,730.5	0.728+23
C07,705.2	440,950.5	1,04901
607,814.9	440,771.3	49+07.3
604,239.3	449,330.0	42+73.6
5.59£,009	449,077.3	40+04.3
608,534.7	448,080.3	3.EC+9C
000,075.7	448,521.7	33+86.5
100,214.2	448,847.1	0.60+0C
6,000,000	446,730.6	27+00.0
e09,045.7	446,380.2	22+26.0
410,120.3	448,240.1	20+04.9
010,429.7	448,143.4	10+13.4
010,744.7	1.100,814	13408.1
610,027.5	447,893.0	10+63.0
011,100.5	447,730.4	5+00+4
011,207.0	40,5412	0+50.5
911,378.6	446,913.6	0.00-0
EASTING	NORTHING	STATION

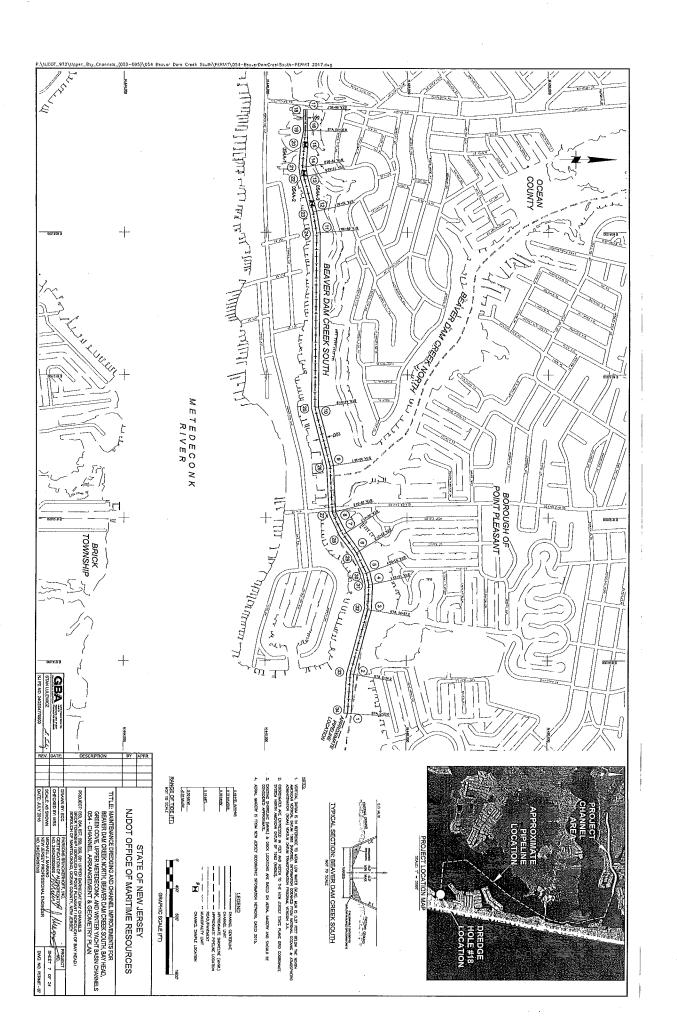
8 8	2	8	a	9	20	g	E	23	a	8	2	8	n	93	50	ŝ	à	٦	à	46	t	ò	42	41	à	ä	ä	4	a	g	ž	ដ	ĸ	<u>u</u>	8 :	8	27	×	25	2	B	: :	8	5	ä	17	á	ē :	x i	5	=	ä	*	4	7		*		1	٠	-
447,622.3	447,704	447,857.5	447,890.2	440,006.7	\$761'DHP	440,244.0	449,582.0	1123,814	440,897.0	440,002.2	449,068,9	449,265.2	449,700.1	440,850,7	448,354.0	450,240.3	450,440.7	430,519.4	450,610.0	450,725.5	400,940.9	451,309,1	451,444.7	451,439.4	451,460.2	452,121.5	424.2	402,387.1	452,735.6	40,000	463,1433.3	463,1853	403,000.4	452,7400	492591.5	407,121.0	401,440.0	461,469.0	401,475.4	481,412.5	460,046.7	498,737.4	aucijos.	460,451.7	460,236.7	449,950.5	449,000.4	449,753.5	1,010,024	40000	448,946.0	443,870.0	440,772.4	449,410.0	443,206.9	445,191.1	440,077.9	447.830.1	1,000,000	ACT COLOR	440,000.8
#10E(119	611,002.5	410,022.9	610,719.4	610,464.5	610,097.5	0.000,000	6,000,000	0.000	eDro,cros	400,000.2	0.175,000	4.915,606	607,792.3	807,767.4	807,781.4	2,057,700	807,702.2	5 PC2,208	007,040.7	807,184.2	807,527.0	807,600.2	807,548.2	807,483.7	507,408.3	807,925.0	007,000.0	000,000,0	000,809.3	508,918.5	800,807.8	600,007.0	005,948.4	008,988.9	607,002	000,000	607,421.5	897,489.7	007,003.0	1,542,108	473674	607,592,7	1,185,000	607,793.2	627,760.4	037,781.0	607,515.0	0.755,500	ceacings	030,541.2	1.080,003	6290,000	Contras	4130,003	010,143.2	6.915.019	a10,810.1	610,002.1	01,204.0	011.26.3	011,420.0
restaurati		_							_									_																																											
																																	-	ş	e		42	ş	ş	2	ş	9		8	8	2	ş	4	ē	ė i		ş	ä	ñ	¥	10	ş	ē 9		,	
																																	8-50+00	#\$+Q0.1	82-100	BD+D7D	75-09.0	53+61.2	0.00+60	67-20.9	\$6+23.4	61+05-8	20-220	501700	50-00.0	9759429	1,0490,1	49407.3	42+73.6	40-043	238-52	0.00+00	27+00.0	22+24.0	23+04.9	10+124	13+04.1	10+83-0	0,000	0-000	0-00.0
																																		-	+	BHOTO AND	H	89-61.0 401,477.0		1	+	+	100-100 ASI, 201 S	ŀ	-		10+99,1 440,956.5	-	+	40.07.3	+	H	ŀ		_	1	1	10+65.0 447.65.0	ł	+	0.00.0
																																	453,1943	453,064.0	210,00	+	402,130.6	451,477.5	481,464.7	481,400.1	451,405.8	400,000	+	400,027.5	489,450.7	469,730.5	440,050.5	40,7713	49,000	448,077.3	+	448,847.1	446,730.6	446,380.2	48,240.1	101,00	1	447,0320	41,001,4	1000	+











TITLE MANTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR BENEFIT DAY CREEK NORTH, EDWER DAM CREEK NORTH, AN HEAD, GEREN COVE, UPPER METERSONA, NOW WITHER YOUTH BASH CHANNELS GENERIC TOWN CHANNELS GENERIC AS SAMPLING COORDINATE TABLES PROJECT DAY OF A STATE OF THE TABLES OF THE PROJECT DAY OF A STATE OF THE TABLES OF THE PROJECT DAY OF A STATE OF THE TABLES OF THE PROJECT DAY OF THE TABLES OF T WAY ECC PASSONS EINCHCENOTY INC STORY IN STORY I STATE OF NEW JERSEY
NJDOT OFFICE OF MARITIME RESOURCES

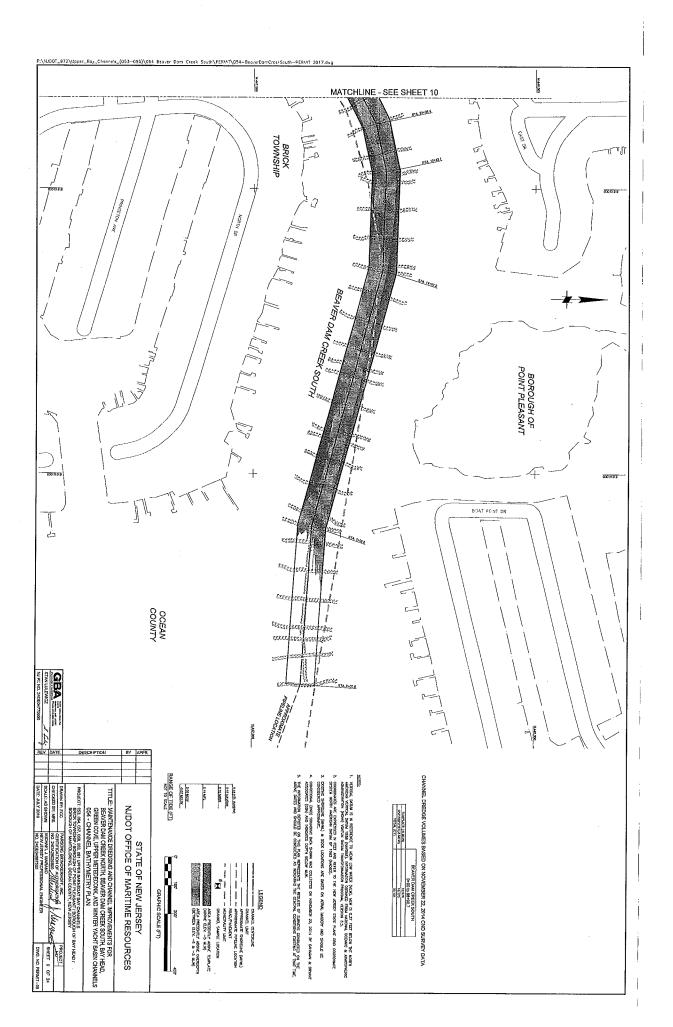
NODES:
1. COMPONINGE AND EMPRISOD IN TITT AND SETS TO THE NEW JUDIETY STATE PLANE GIBB COCHONNIES.
2. CONTRA HORITA ANDREAM GAUM OF 1930 (MOSSI).

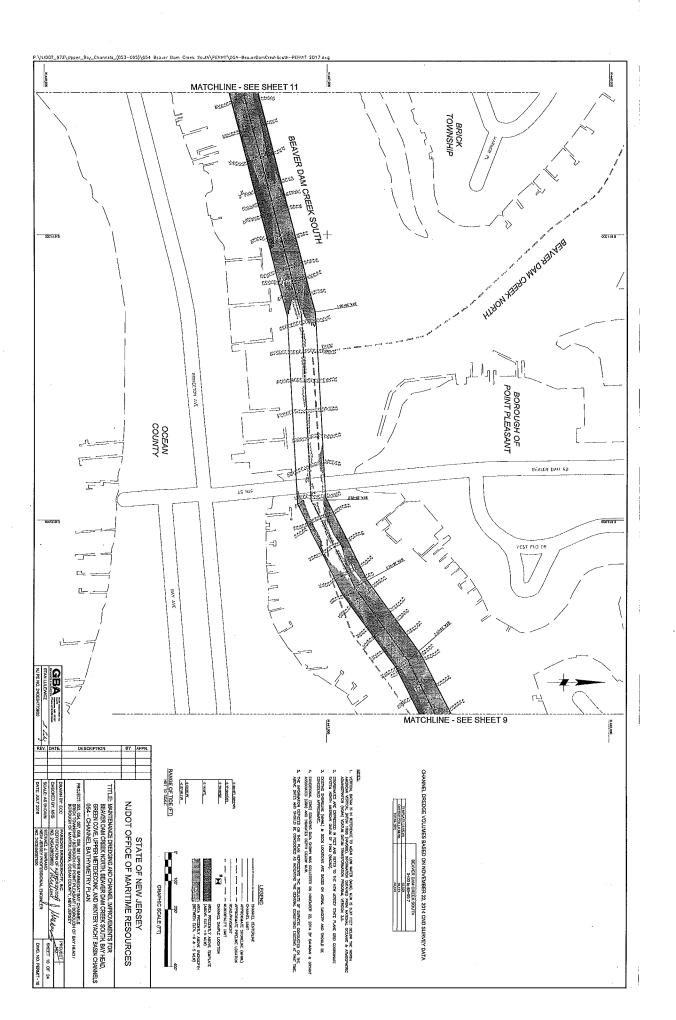
_ !						┖	L.	L					L	L	L	L.,	<u> </u>	ļ
		Г	_	Γ					Г	Г	Г	Г			Г			l
90-007	0.00+68	78+60.0	77+43.6	72-00.1	1.0040	44440	30+25.1	29+02-2	20+41.1	25+21-2	20+06.4	19+33.1	14+07/2	54802	0.00.0	NOLIVIE	SEAVER CET	ŀ
	t	±			ŀ	Ŀ							ŧ		t	NO.	DAM CR	
200,000	440,552.3	440,510.9	440,029.5	440,007.8	440,717.5	46,682.3	440,503.1	448,844.5	447,090.3	447,289.5	4,000,000	447,489.7	447,488.0	447,209.2	47,1720	NORTHING	EEK SOL	
986	tee	100	8	90	920	910	811	811	813	013	912	015	513	118	49	Ę.	BEAVER DAM CREEK SOUTH CHANNEL CENTERLINE COORDINATES	
946.277.2	066,557.9	007,080,2	D07,221.4	507,716.0	80,011.8	010,456.0	011,278.0	815,930.6	812,236.0	012,401.6	012,772.7	012,941.2	6.002,018	614,184.0	614,730.0	EASTING	NNEL	

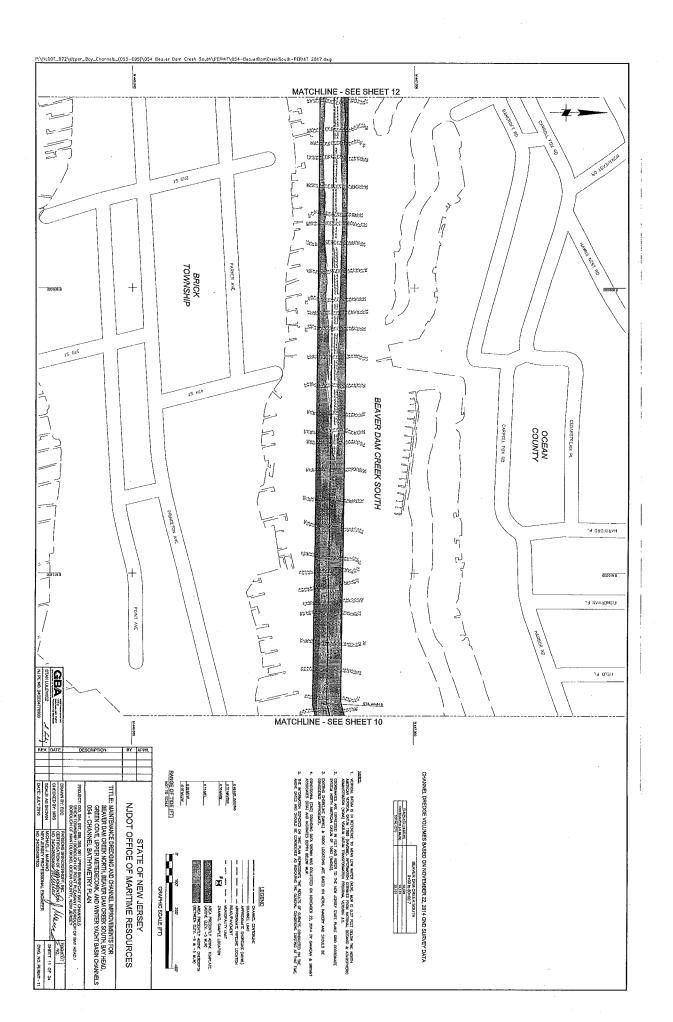
5544-3 446.060.D	9344-2 446,636.2	1-440	SAMPLE NORTHING	SAMPLE LOCATION CO
1,080,700	cor.167.9	606,709.7	EASTING	ORDINATES

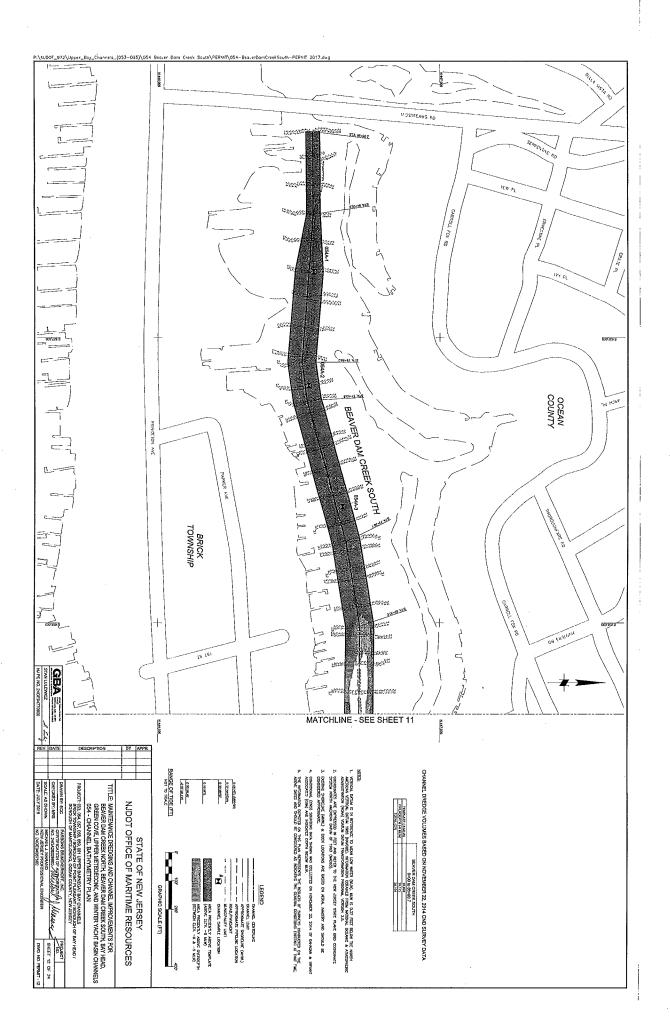
BEAVER DAM CREEK SOUTH

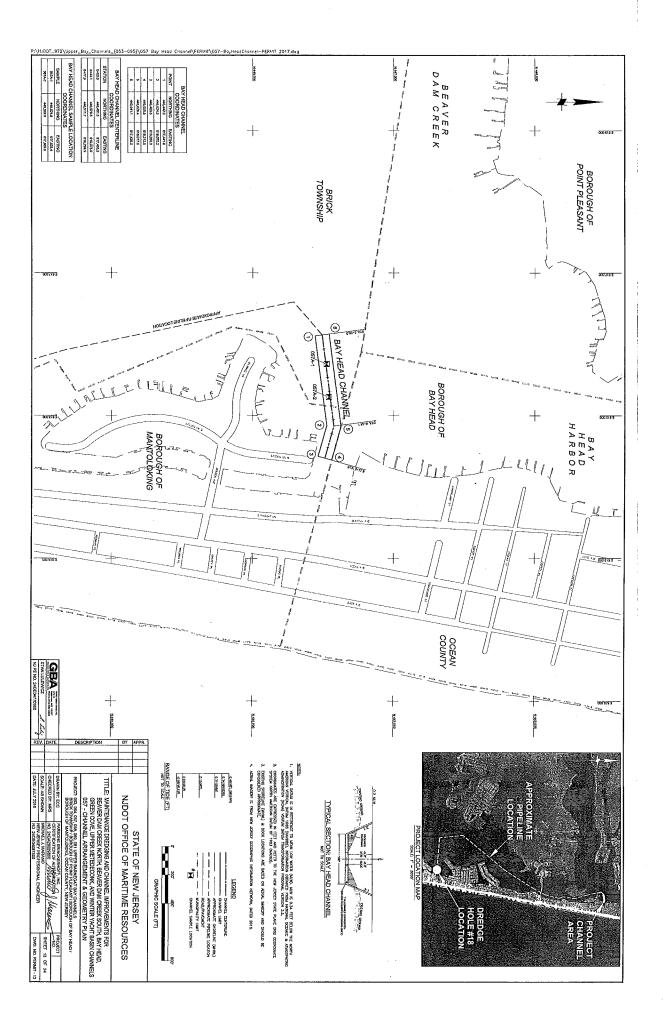
POINT NORTH NORTH

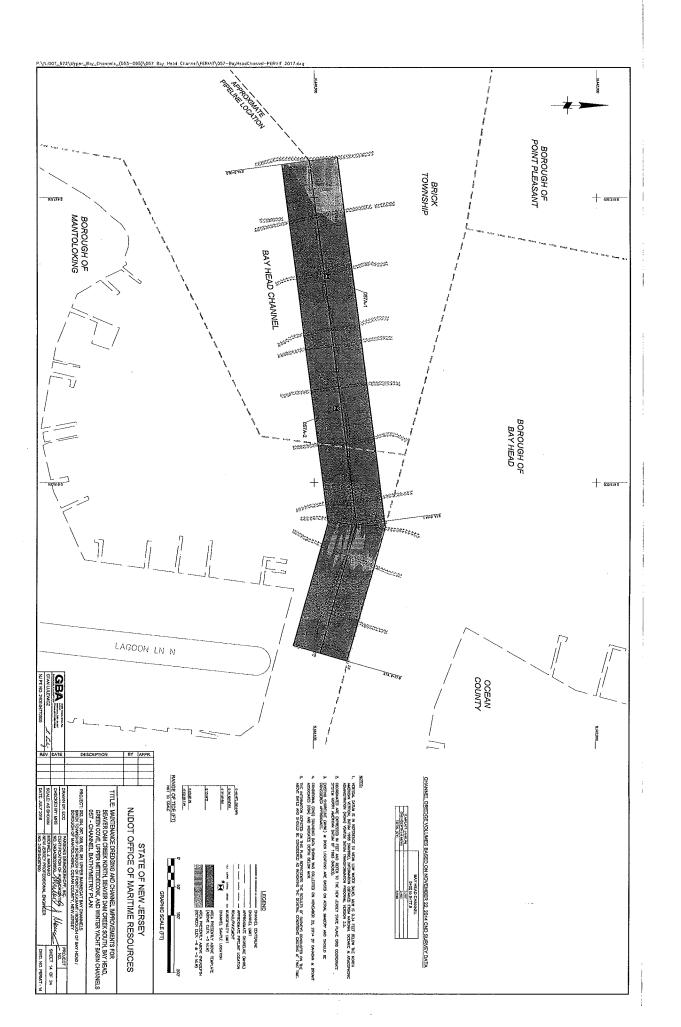


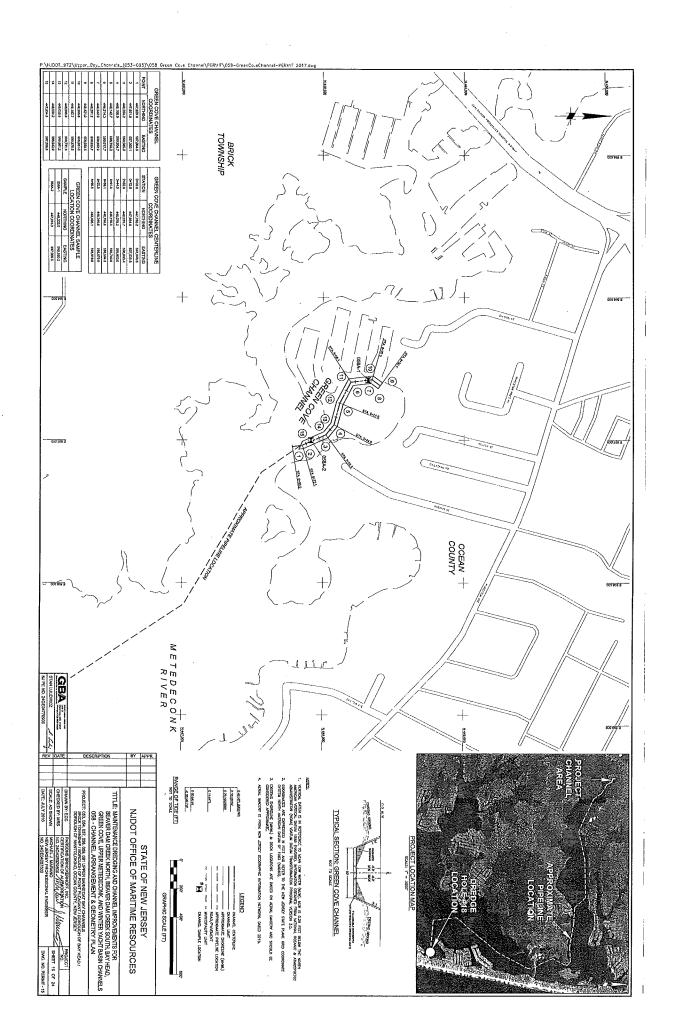


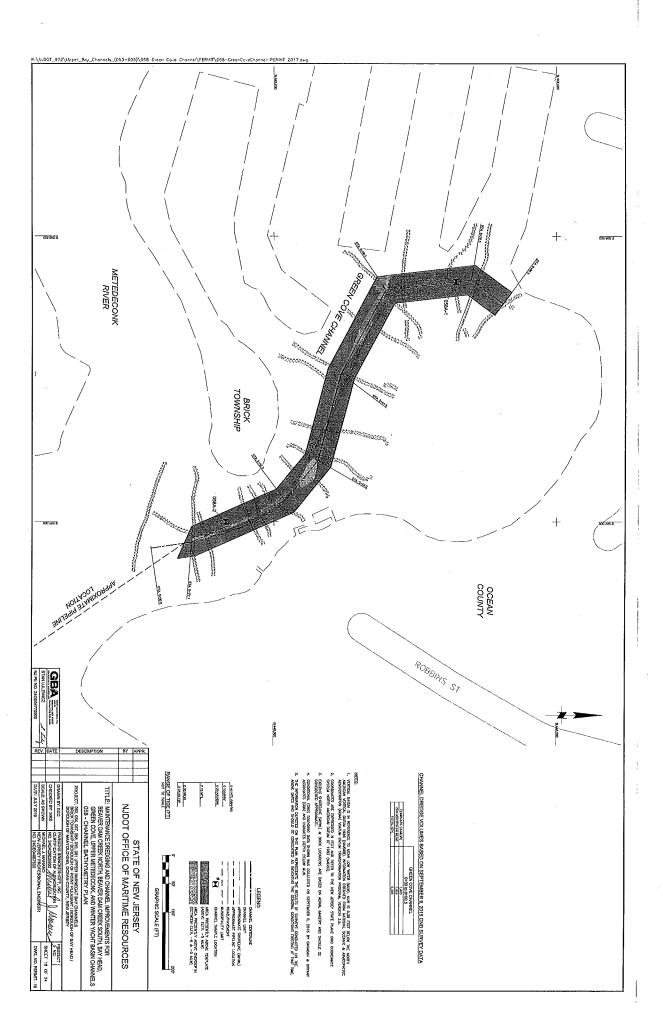


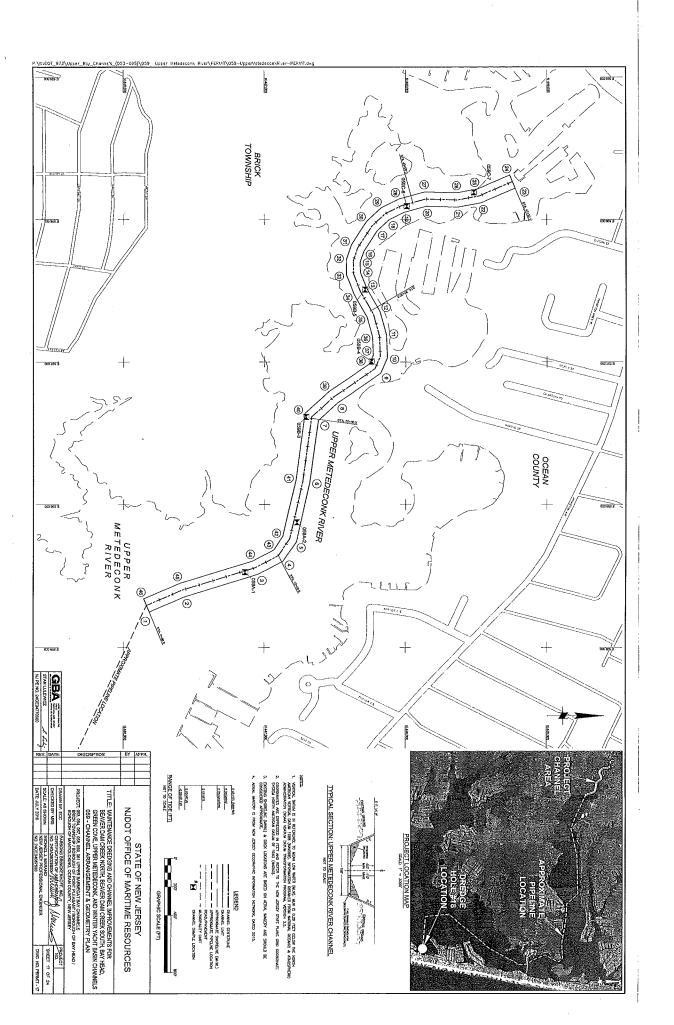












NI PE NO. 240E04770900		to and the same of						-
REV.	DÄTE	1	D£	SCRPTI	ON	7	BY	APPR.
		1						
	-	+						$\vdash$
SCALE: AS SHOWN MICHAEL I, MARAND DATE: JULY 2016 NO. 24 GENORY PROFESSIONAL ENGINEER DWG. NO. PERMIT - 18	CHECKED SY: MRS NO 24GA280209800 MINAULA MO	, e	PROJECT: 85, 054, 057, 058, 056, 091 UPPER BANNECHT BAY CHANNES, DOROUGH OF BANNECHT BALSANT I BANNECHT BALSANT I BANNECHT BALSANT I BANNECHT BA	GREEN COVE, UPPER METEDECONK, AND WINTER YACHT BASIN CHANNELS 059 - CHANNEL GEOMETRY & SAMPLING COORDINATE TABLES	TITLE: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR BEAVER DAM CREEK NORTH, BEAVER DAM CREEK SOUTH, BAY HEAD,		NJDOT OFFICE OF MARITIME RESOURCES	STATE OF NEW JERSEY

MOTES:

1. COMMINIST ARE CORRESSED IN FEET AND METR TO THE NEW ATREET STATE PLANE OND COMMINIST.

STOLL WORTH ANGREWA CATAL OF THE MOUSE).

ES	CENT	CENTERLINE COORDINATES	NATES
DNITS	STATION	NORTHING	EASTING
16,750.0	0+00.0	440,044	890,704.0
10,54b.1	2+75.5	Z819'09P	0.000,688
30,487.0	8+19.1	7.003,814	590,440.5
18,304.8	10+00.6	5'060'2**	108,344.4
0.200.0	11-40.4	447,1773	199,240.0
77,544.7	19+66.7	447,2700	597,595.7
27,410.4	20+10.2	447,332.5	107,365.4
7,216.9	22+10.4	447,480.5	197,247.4
37,070.9	25+75.4	447,783.2	197,040.0
0,972.4	25+08.2	447,820.0	196,962.8
ML012.0	28+08.9	447,814.5	100,819.9
ST PHOTO	29+69.2	40,771.2	200,000.0
9,412.6	31+68.7	47,678.8	200,004.0
9,370.4	32+90.7	447,827,1	104,340.2
M,300.2	33+79.3	447,020.0	59,291.4
M.222.9	34+76.2	447,650.9	1007,003
10,060.1	20-00	447,761.5	306,047.3
6,001.9	37+66.3	447,850 G	206,040.2
0.146,66	39+16.3	447,670.0	596,904.1
10,907.1	40104.4	448,142.2	504,856.9
2,913,6	43-19.3	448,387.0	405,940.A
1,000,00	44-77.3	942,623.0	805,004.9
	47.70		

ERRETELECOME RAVER CHANGE  CENTRON MORTHNO USUTING  PRIA 44,0432 REGARD	8 METEDECON N NORTH 440,99 440,99 447,99 447,99 447,99
CRIVER CHANNE DORDINATES NO. EASTING 2 SIN DEC. 2 SIN DEC. 2 SIN DEC. 2 SIN DEC. 2 SIN DEC. 3 SIN DEC. 4 SIN DEC. 5	CONK NE CO ORTHIN ORTHIN 440,4182 440,4182 440,4182 440,4182 440,4182 440,4182 441,7183 447,7183 447,7183
	CRIVER CHANNE DORDINATES NO. EASTIN 2 SUGGECT 7 SENJAGOL 7 SENJAGOL 6 SENJAGOL 7 SENJAGOL 8 SENJAGOL 8 SENJAGOL

	l		L	L.	L	L	L	L	L	L		L		
29+69.2	28+08.0	25-68.0	23473.4	22+10.4	20+10.2	13+16.7	:1-404	10+00.8	8+19.1	2+75.3	0+00.0	STATION	CENT	CETTER ME
40,7712	447,814.5	47,000	447,783.2	447,480.5	447,332.5	47,2700	447,177,3	447,090.5	446,938.7	440,410.2	440,104.4	NORTHING	CENTERLINE COORDINATES	DETECTION RIVER CHANNEL
\$200,000.0	100,819.9	196,962.8	297,040.0	507,247.4	147,385.4	597,535.7	tan,240.0	598,344.4	598,440.5	554,500.0	890,704.0	EASTING	INATES	EK CHANNEL

