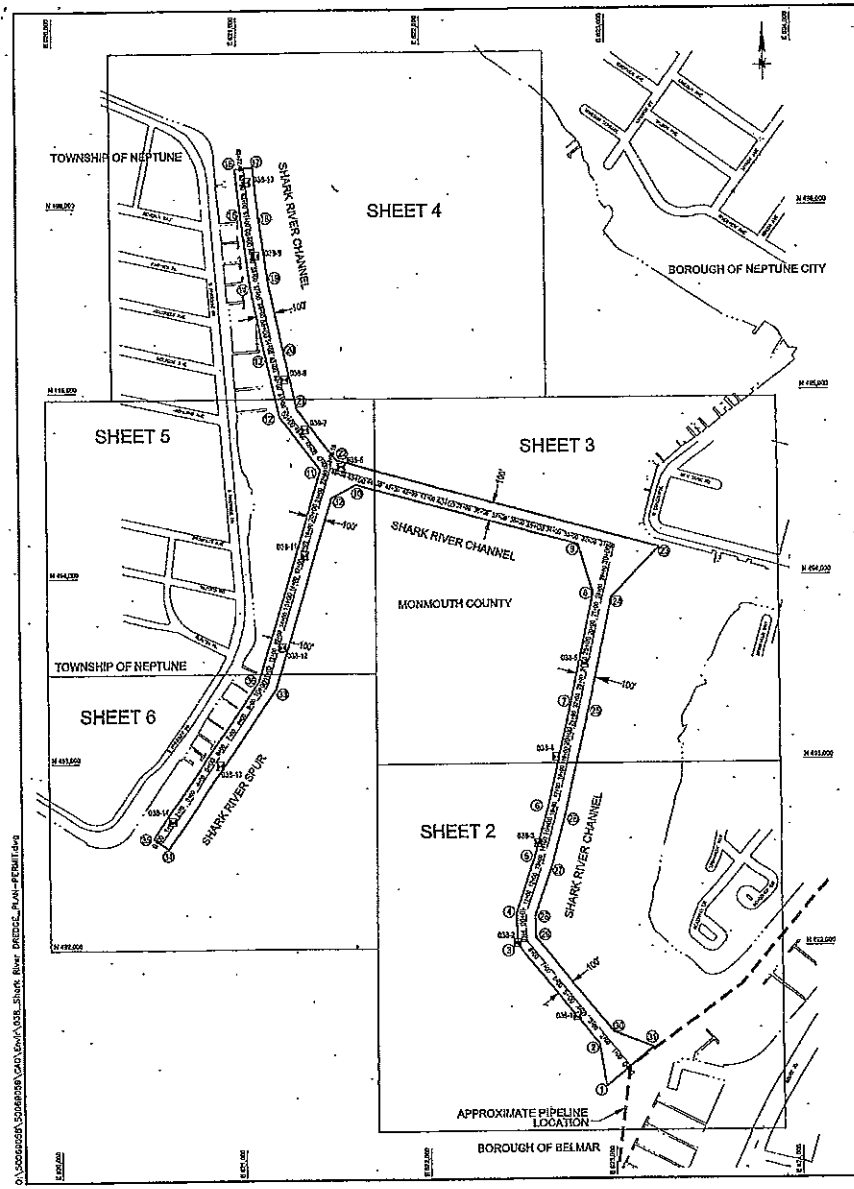


SHARK RIVER CHANNEL COORDINATES		
POINT	NORTHING	EASTING
1	493252.1	622555.3
2	491481.0	622917.1
3	492014.3	622484.2
4	492184.8	622410.3
5	492466.7	622375.8
6	492741.4	622653.3
7	493310.6	622781.1
8	493906.6	622509.1
9	494163.5	622832.9
10	494453.3	623025.0
11	494577.6	623445.0
12	494553.8	623226.5
13	495177.0	623155.2
14	495553.2	623074.2
15	495826.2	623023.4
16	495207.2	623032.7
17	495218.4	623032.1
18	495218.6	623226.6
19	495595.5	623172.8
20	495118.3	623233.5
21	494597.1	623318.2
22	494535.3	623528.8
23	494157.2	623628.1
24	493872.4	623604.1
25	493243.9	623550.8
26	492716.8	623745.3
27	492497.3	623671.4
28	492169.5	623520.7
29	492050.8	623583.5
30	491544.0	623944.7
31	491451.4	623911.2

SHARK RIVER CHANNEL CENTERLINE COORDINATES		
STATION	NORTHING	EASTING
0+00	493350.8	623082.2
8+85	492032.6	622533.9
10+10	492177.2	622510.5
13+05	492452.0	622623.6
15+95	492729.1	622695.8
21+80	493193.7	622831.9
27+05	493815.9	622916.6
30+65	494167.3	623025.4
46+50	494557.6	623360.3
50+25	494835.4	623172.8
53+40	495187.6	623104.7
57+40	495576.8	623123.5
61+00	495942.4	623023.0
63+72.46	495912.8	623042.4

SHARK RIVER SPUR CHANNEL COORDINATES		
POINT	NORTHING	EASTING
32	494426.1	621503.4
33	493398.9	621150.9
34	492540.0	620596.5
35	492564.5	620614.3
36	492442.5	621059.8

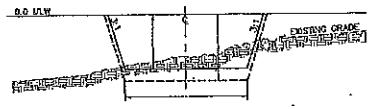
SHARK RIVER SPUR CENTERLINE COORDINATES		
STATION	NORTHING	EASTING
0+00	492569.4	620555.4
10+25	492420.9	621145.4
22+56.15	494537.6	623500.3

CORE SAMPLE COORDINATES		
LOCATION	NORTHING	EASTING
038-1	491638.40	623201.40
038-2	492022.60	622483.50
038-3	492557.50	622600.60
038-4	493023.30	622701.30
038-5	493529.20	622859.70
038-6	494594.20	623557.0
038-7	494795.0	623363.10
038-8	495097.10	623251.30
038-9	495741.50	623104.60
038-10	496138.0	623058.30
038-11	494116.40	623355.60
038-12	493622.70	623322.60
038-13	492285.70	623383.50
038-14	492687.0	623020.50

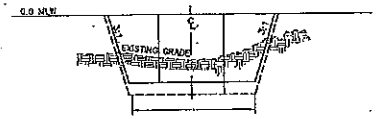
DREDGE VOLUMES BASED ON DEC. 2014 SURVEY DATA

SHARK RIVER CHANNEL	
DEPTH	STA. 0+00 TO 63+72.46
TEMPLATE (-6 MLW)	49,703 CY
OVERDEPTH (-7 MLW)	25,615 CY
TOTAL VOLUME	75,318 CY

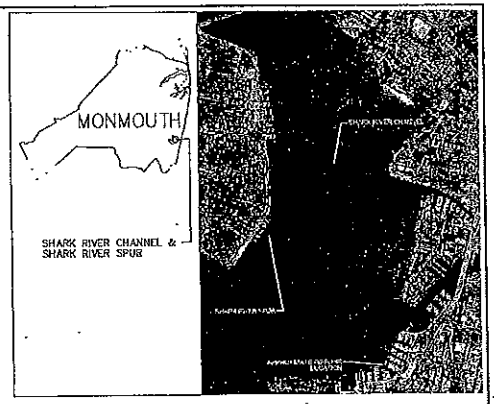
SHARK RIVER SPUR	
DEPTH	STA. 0+00 TO 22+56.15
TEMPLATE (-6 MLW)	15,591 CY
OVERDEPTH (-7 MLW)	10,715 CY
TOTAL VOLUME	26,265 CY



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



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 DAWSON & DAVANT ASSOCIATES, INC.
5. THE INFORMATION SHOWN 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 INVENTORY, 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

0 200 400 1200
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 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
CHECKED BY: IST
SCALE: AS SHOWN
DATE: 5/15

DEWBERRY ENGINEERS INC.
CERTIFICATION OF AUTHORIZATION NO. 24GA28047800
JAMES D. HEEREN
NEW JERSEY PROFESSIONAL ENGINEER
NO. 24GE04031000

PROJECT NO.
SHEET 1 OF 7
DWG. NO. DRG-01

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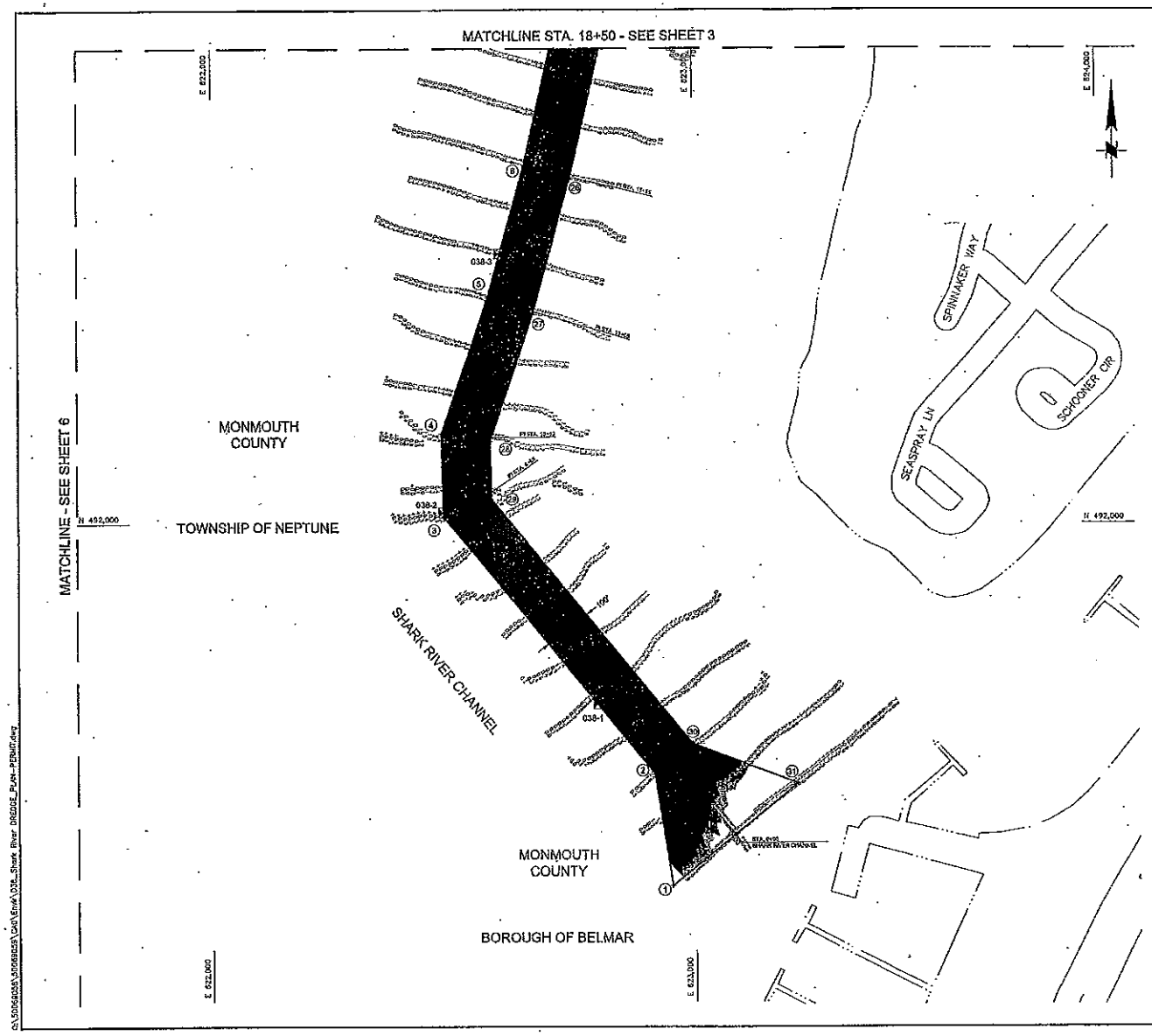

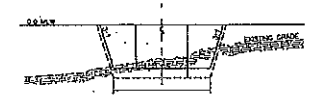

TYPICAL SECTION: SHARK RIVER CHANNEL STA 0+00 to 63+72.48
NOT TO SCALE

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 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.

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

RANGE OF TIDE
NOT TO SCALE

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

DRAWN BY: CBM	DEWBERRY ENGINEERS INC. CERTIFICATION OF AUTHORIZATION NO. 24GA28047600	PROJECT NO.
CHECKED BY: ST		SHEET 2 OF 7
SCALE: AS SHOWN	JAMES B. HEBREN NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE0[illegible]	
DATE: 5/1/15		DWG. NO. DRG-02

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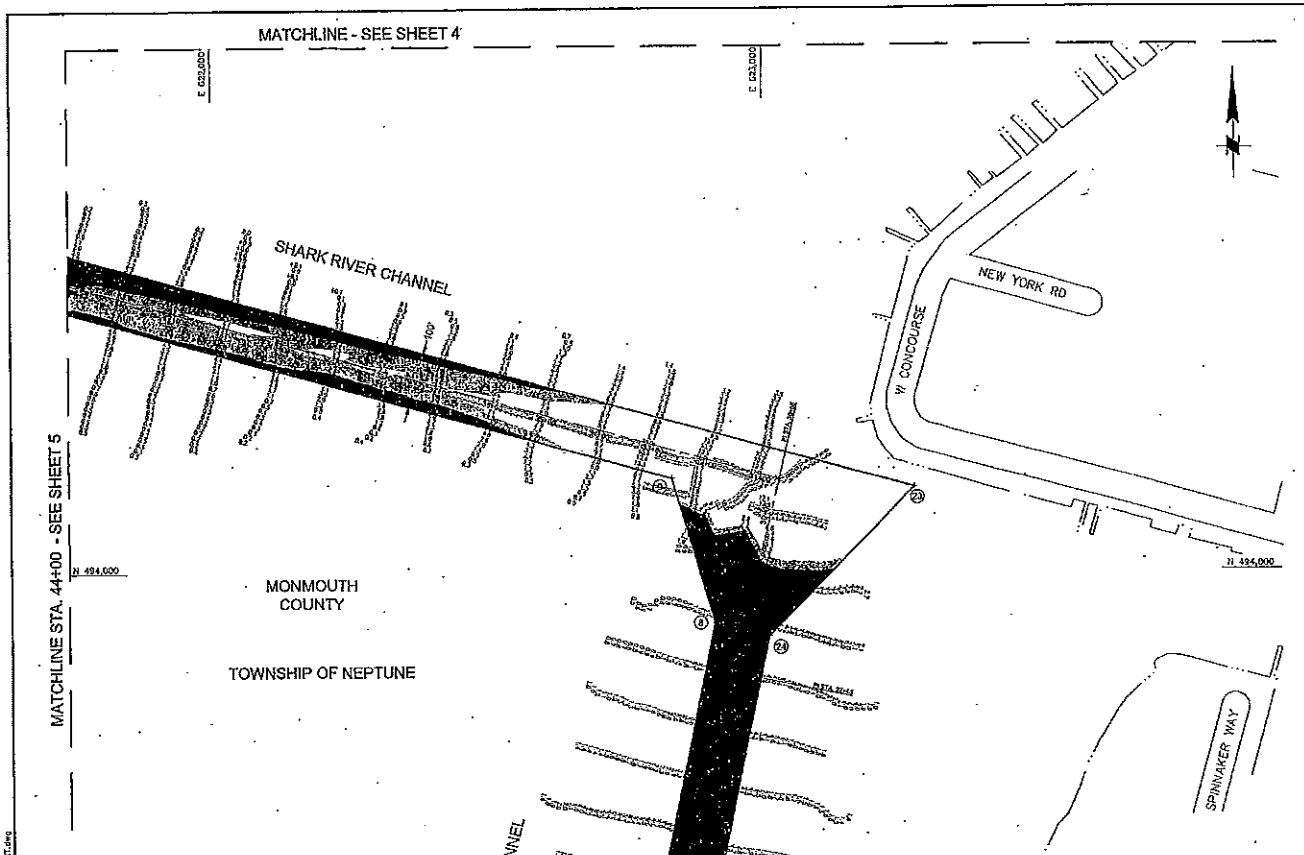

TYPICAL SECTION: SHARK RIVER CHANNEL STA 0+00 to 63+72.48
NOT TO SCALE

NOTES:

1. VERTICAL DATUM IS IN REFERENCE TO MEAN LOW WATER (MLW). MLW IS 2.15 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 CANAGAN & MIYAMI 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.

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

RANGE OF TIDE
NOT TO SCALE

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

DRAWN BY: CEM	DEWBERRY ENGINEERS INC. CERTIFICATION OF AUTHORIZATION NO. 24GA28047600	PROJECT NO.
CHECKED BY: ST		SHEET 3 OF 7
SCALE: AS SHOWN	JAMES D. NEEREN NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE04031600	DWG. NO. DRG-03
DATE: 5/1/15		

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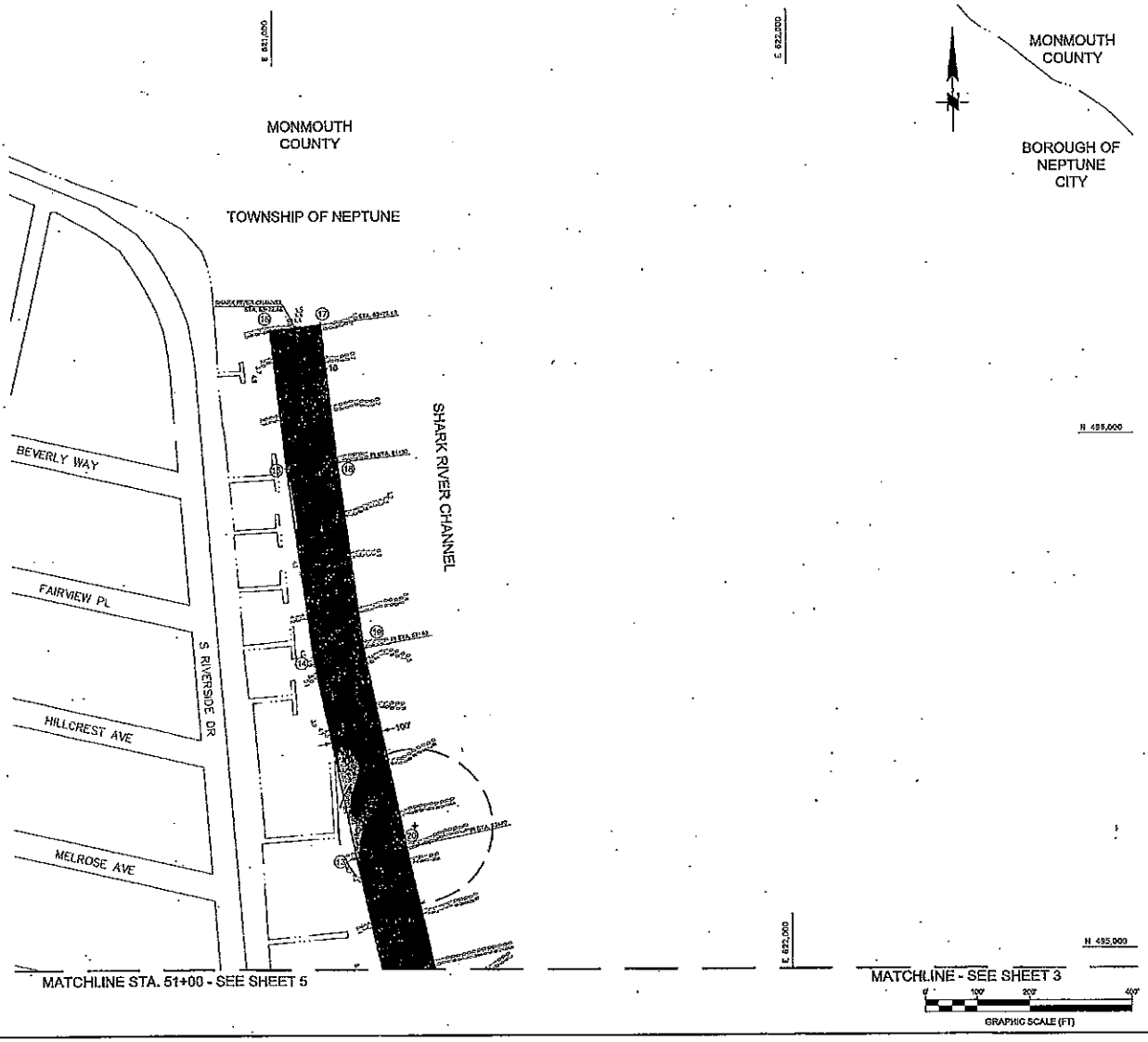
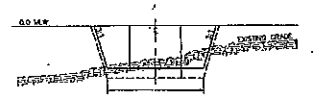
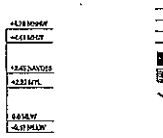




TYPICAL SECTION: SHARK RIVER CHANNEL STA 0+00 to 63+72.46
NOT TO SCALE

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) VERTICAL 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 EAHOCAN & 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
- CHANNEL DREDGING AREA – 5' DEEP TEMPORARY NAVIGATIONAL CHANNEL
- CHANNEL DREDGING AREA – 7' DEEP OVERDEPTH
- HISTORIC RIVERWALK AND ASSOCIATED BUFFER
- CORE SAMPLE LOCATION
- CHANNEL COORDINATE POINT

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		SHEET 4 OF 7
SCALE: AS SHOWN	JAMES D. FREEMAN NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE04031900	DWG. NO. DRG-04
DATE: 6/2/15		

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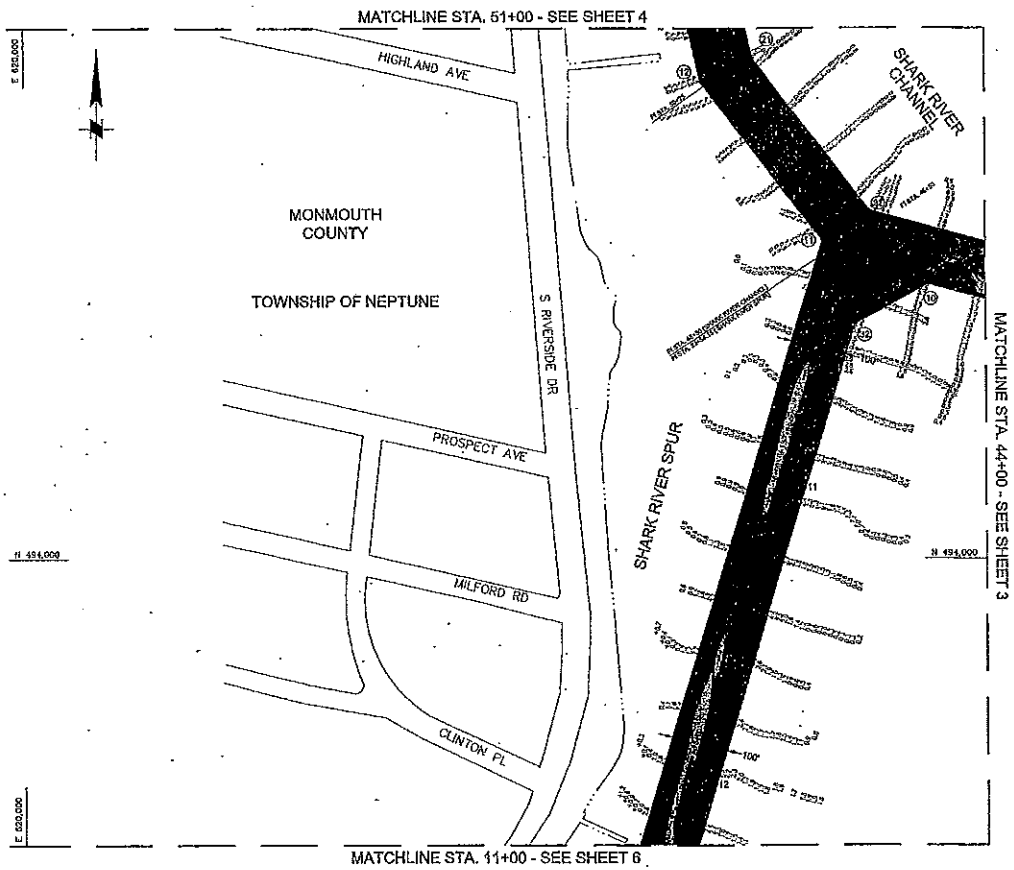
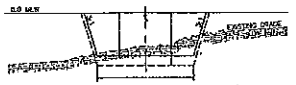


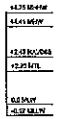


TYPICAL SECTION: SHARK RIVER CHANNEL STA 0+00 to 63+72.46
NOT TO SCALE

TYPICAL SECTION: SHARK RIVER SPUR STA 0+00 to 22+58.15
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) VERTICAL 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 DAVIDSON & BRANT 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
- CHANNEL DREDGING AREA – 6' DEEP TEMPLATE NAVIGATIONAL CHANNEL
- CHANNEL DREDGING AREA – 6' 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

DRAWN BY: CEM	DEWBERRY ENGINEERS INC. CERTIFICATION OF AUTHORIZATION NO. 24GA28047600	PROJECT NO.
CHECKED BY: JST	JAMES D. BEEKER NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE04031000	SHEET 5 OF 7
SCALE: AS SHOWN		DWG. NO. DRG-05
DATE: 5/15		

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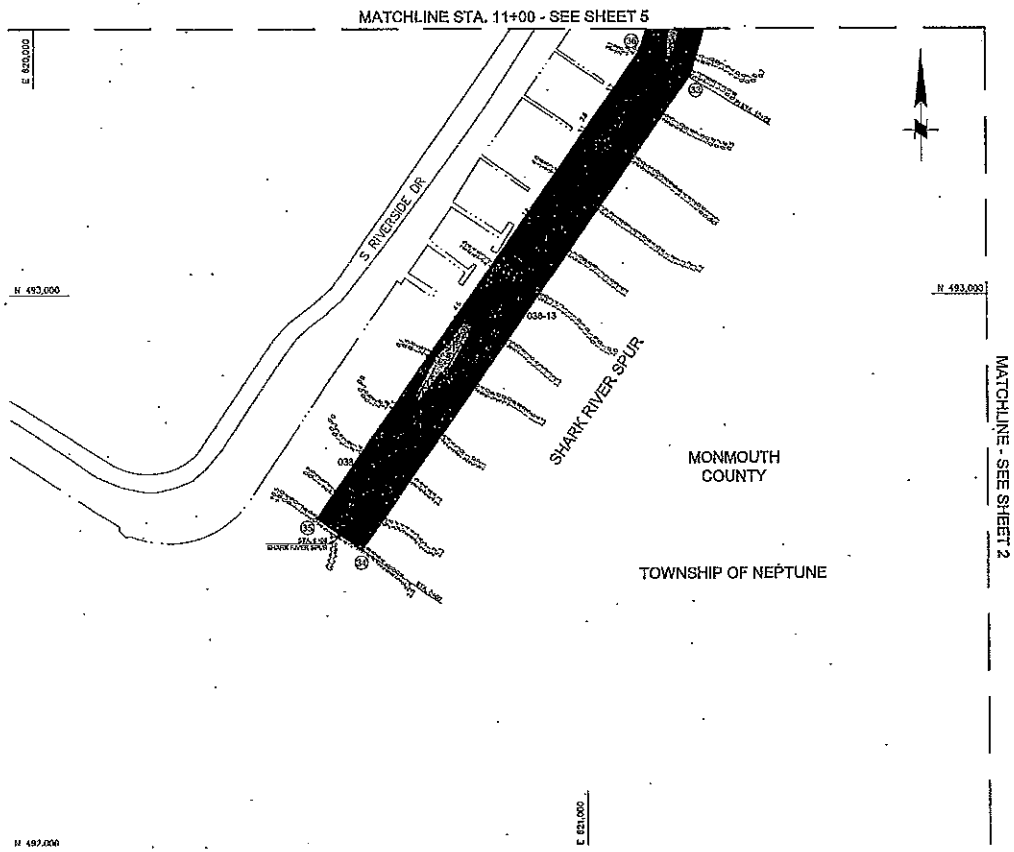

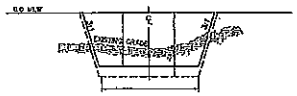

TYPICAL SECTION: SHARK RIVER SPUR STA 0+00 to 22+55.15
NOT TO SCALE

NOTES:

1. VERTICAL DATUM IS IN REFERENCE TO MEAN LOW WATER (MLW). MLW IS 2.45 FEET BELOW THE NORTH AMERICAN VERTICAL DATUM OF 1929 (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 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.

LEGEND

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

+4.75 MHHW
+4.41 MHW
+2.15 NAVD88
+2.30 MTL
0.0 MLW
-0.13 MLLW

RANGE OF TIDE
NOT TO SCALE

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

DRAWN BY: CEN	DEVISBERY EVERKEERS INC. CERTIFICATION OF AUTHORIZATION NO. 24GA28047600	PROJECT NO.
CHECKED BY: ST		SHEET 6 OF 7
SCALE: AS SHOWN	JAMES D. HERRON NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE04051600	DWG. NO. DRG-06
DATE: 5/1/15		

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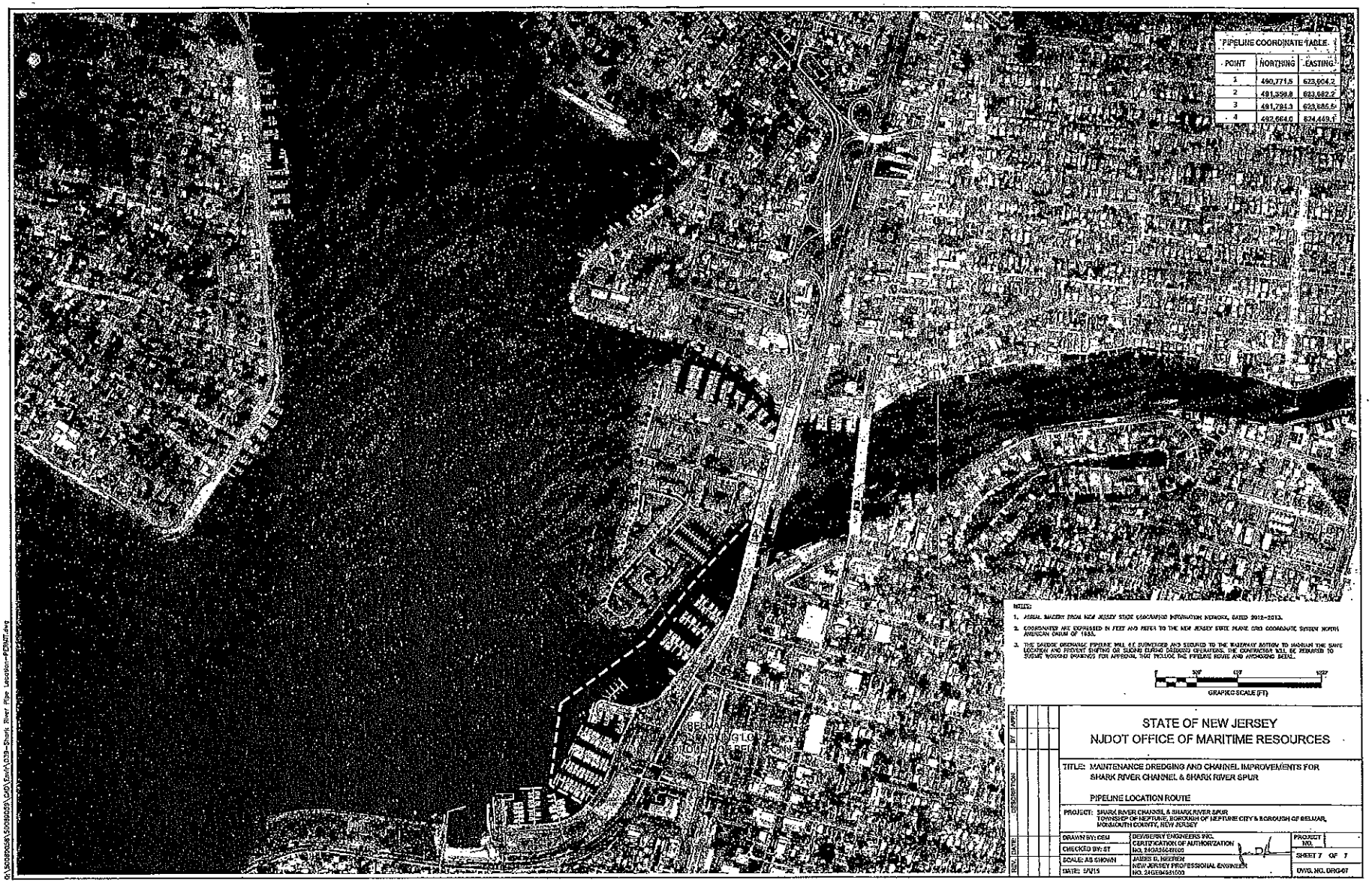

PIPELINE COORDINATE TABLE		
POINT	NORTHING	EASTING
1	490,771.5	623,004.2
2	491,359.8	623,082.2
3	491,794.3	623,685.5
4	492,664.0	624,449.1

NOTES:

1. AERIAL IMAGERY FROM NEW JERSEY STATE GEOGRAPHIC INFORMATION NETWORK, DATED 2012-2013.
2. COORDINATES ARE EXPRESSED IN FEET AND REFER TO THE NEW JERSEY STATE PLANE GRID COORDINATE SYSTEM NORTH AMERICAN DATUM OF 1983.
3. THE DREDGE DISCHARGE PIPELINE WILL BE SUBMERGED AND SECURED TO THE WATERWAY BOTTOM TO MAINTAIN THE SAME LOCATION AND PREVENT SHIFTING OR SLIDING DURING DREDGING OPERATIONS. THE CONTRACTOR WILL BE REQUIRED TO SUBMIT WORKING DRAWINGS FOR APPROVAL THAT INCLUDE THE PIPELINE ROUTE AND ANCHORING DETAIL.

0 300' 600' 1200'

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

PIPELINE LOCATION ROUTE

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. 24GA26047600	PROJECT NO.
CHECKED BY: ST		SHEET 7 OF 7
SCALE: AS SHOWN	JAMES D. HEEREN NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE04051000	DWG. NO. DRG-07
DATE: 5/4/15		

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