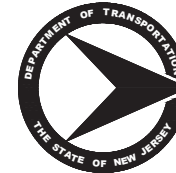
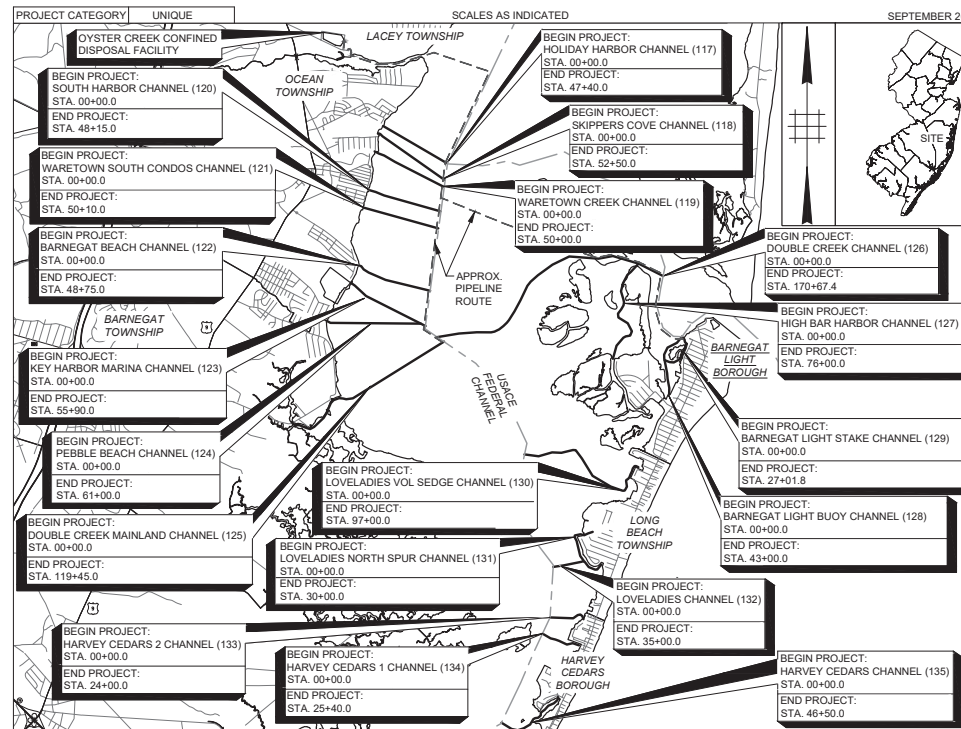


State of New Jersey
Department of Transportation



PLANS OF
MAINTENANCE DREDGING AND CHANNEL
IMPROVEMENTS FOR THE WARETOWN CHANNEL
COMPLEX, CHANNEL NOS. 117-135

BOROUGH OF BARNEGAT LIGHT & HARVEY CEDARS, TOWNSHIPS OF BARNEGAT,
LONG BEACH, OCEAN & LACEY, COUNTY OF OCEAN, NEW JERSEY



SCALE IN FEET
4000' 0 4000' 8000'
KEY MAP

TOTAL LENGTH OF PROJECT = $\pm 110,784.2$ LIN. FT. OR 20.982 MILES
2019 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION TO GOVERN

INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
1	KEY SHEET
2	WARETOWN CHANNEL COMPLEX - GEOMETRY PLAN SHEET OVERVIEW
3 - 22	WARETOWN CHANNEL COMPLEX - CHANNEL ARRANGEMENT & GEOMETRY PLANS
23 - 24	WARETOWN CHANNEL COMPLEX - CHANNEL GEOMETRY TEMPLATES AND VERTICAL DATUMS
25 - 27	WARETOWN CHANNEL COMPLEX - CHANNEL GEOMETRY & SAMPLING COORDINATE TABLES
28 - 30	HOLIDAY HARBOR CHANNEL - CHANNEL BATHYMETRY PLAN
31 - 33	SKIPPER'S COVE CHANNEL - CHANNEL BATHYMETRY PLAN
34 - 36	WARETOWN CREEK CHANNEL - CHANNEL BATHYMETRY PLAN
37 - 39	SOUTH HARBOR CHANNEL - CHANNEL BATHYMETRY PLAN
40-42	WARETOWN SOUTH CONDOS CHANNEL - CHANNEL BATHYMETRY PLAN
43 - 45	BARNEGAT BEACH CHANNEL - CHANNEL BATHYMETRY PLAN
46 - 48	KEY HARBOR MARINA CHANNEL - CHANNEL BATHYMETRY PLAN
49 - 51	PEBBLE BEACH CHANNEL - CHANNEL BATHYMETRY PLAN
52 - 56	DOUBLE CREEK MAINLAND CHANNEL - CHANNEL BATHYMETRY PLAN
57 - 64	DOUBLE CREEK CHANNEL - CHANNEL BATHYMETRY PLAN
65 - 68	HIGH BAR HARBOR CHANNEL - CHANNEL BATHYMETRY PLAN
69	BARNEGAT LIGHT STAKE CHANNEL - CHANNEL BATHYMETRY PLAN
70	HARVEY CEDARS 2 CHANNEL - CHANNEL BATHYMETRY PLAN
71 - 72	HARVEY CEDARS CHANNEL - CHANNEL BATHYMETRY PLAN
73	PIPELINE ROUTE PLAN - WARETOWN CHANNEL COMPLEX
74	PLACEMENT PLAN - OYSTER CREEK CONFINED DISPOSAL FACILITY

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

MID-POINT OF PROJECT
NORTHING: 334,805
EASTING: 587,833

**PERMITS PLANS
NOT FOR
CONSTRUCTION**

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

Michael J.
Marano

WSP USA INC.

CERTIFICATE OF AUTHORIZATION NO. 24GA28029800

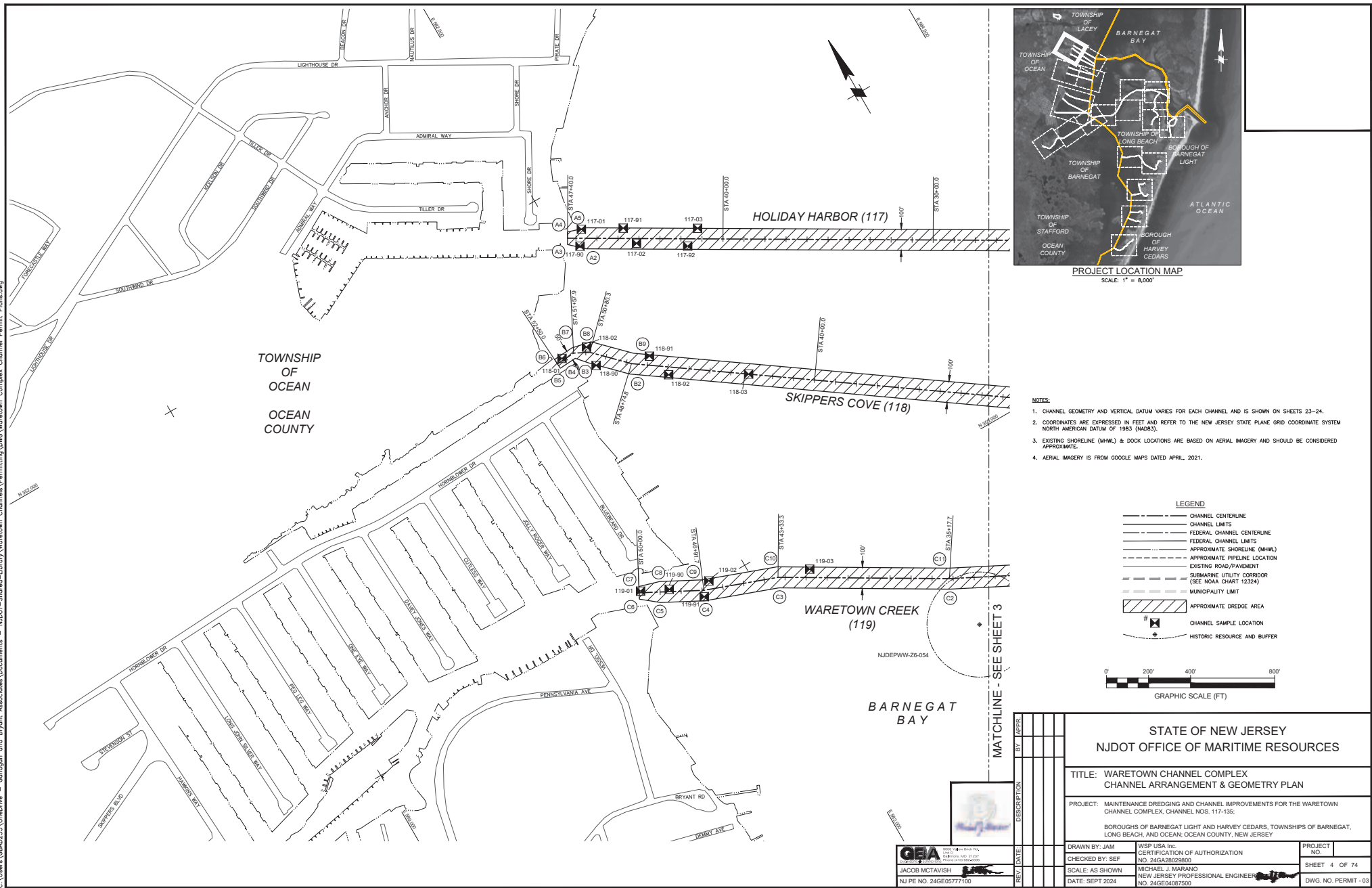
MICHAEL J. MARANO

NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE04087500

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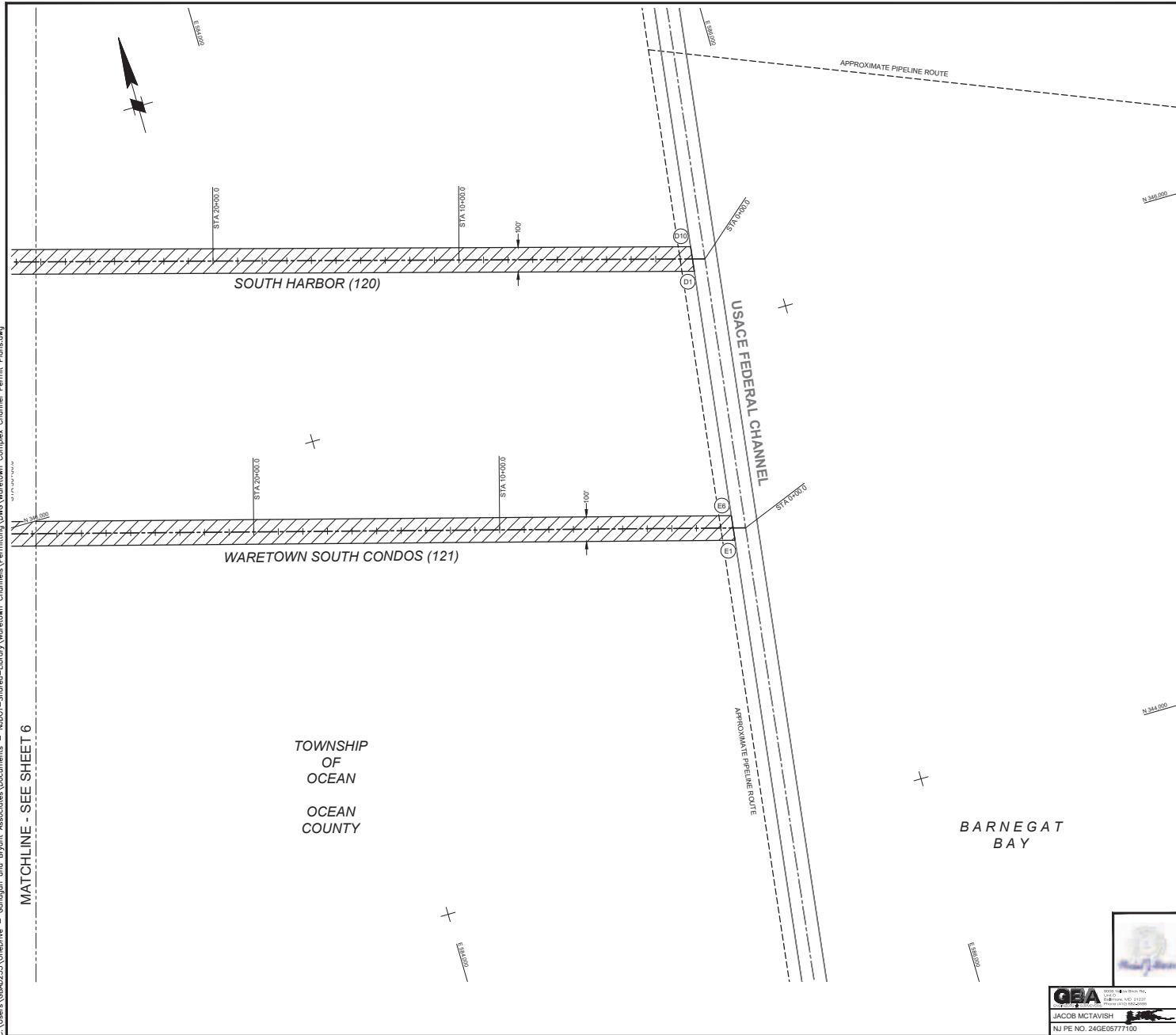


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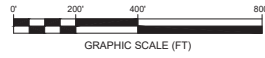
MATCHLINE - SEE SHEET 6



PROJECT LOCATION MAP
SCALE: 1" = 8,000'

- NOTES:
1. CHANNEL GEOMETRY AND VERTICAL DATUM VARIES FOR EACH CHANNEL AND IS SHOWN ON SHEETS 23-24.
 2. COORDINATES ARE EXPRESSED IN FEET AND REFER TO THE NEW JERSEY STATE PLANE GRID COORDINATE SYSTEM NORTH AMERICAN DATUM OF 1983 (NAD83).
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 - CHANNEL LIMITS
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 - FEDERAL CHANNEL LIMITS
 - APPROXIMATE SHORELINE (MHWL)
 - APPROXIMATE PIPELINE LOCATION
 - EXISTING ROAD/PAVEMENT
 - SUBMARINE UTILITY CORRIDOR (SEE NOAA CHART 12324)
 - MUNICIPALITY LIMIT
 - APPROXIMATE DREDGE AREA
 - CHANNEL SAMPLE LOCATION
 - HISTORIC RESOURCE AND BUFFER



BARNEGAT BAY

STATE OF NEW JERSEY
NJDOT OFFICE OF MARITIME RESOURCES

TITLE: WARETOWN CHANNEL COMPLEX
CHANNEL ARRANGEMENT & GEOMETRY PLAN

PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE WARETOWN CHANNEL COMPLEX, CHANNEL NOS. 117-135;

BOROUGH OF BARNEGAT LIGHT AND HARVEY CEDARS, TOWNSHIPS OF BARNEGAT, LONG BEACH, AND OCEAN, OCEAN COUNTY, NEW JERSEY

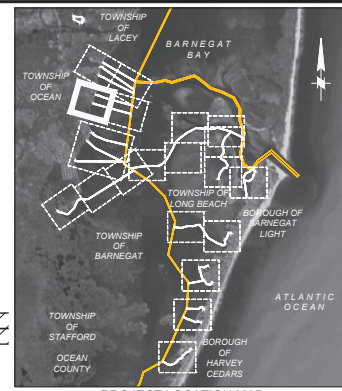
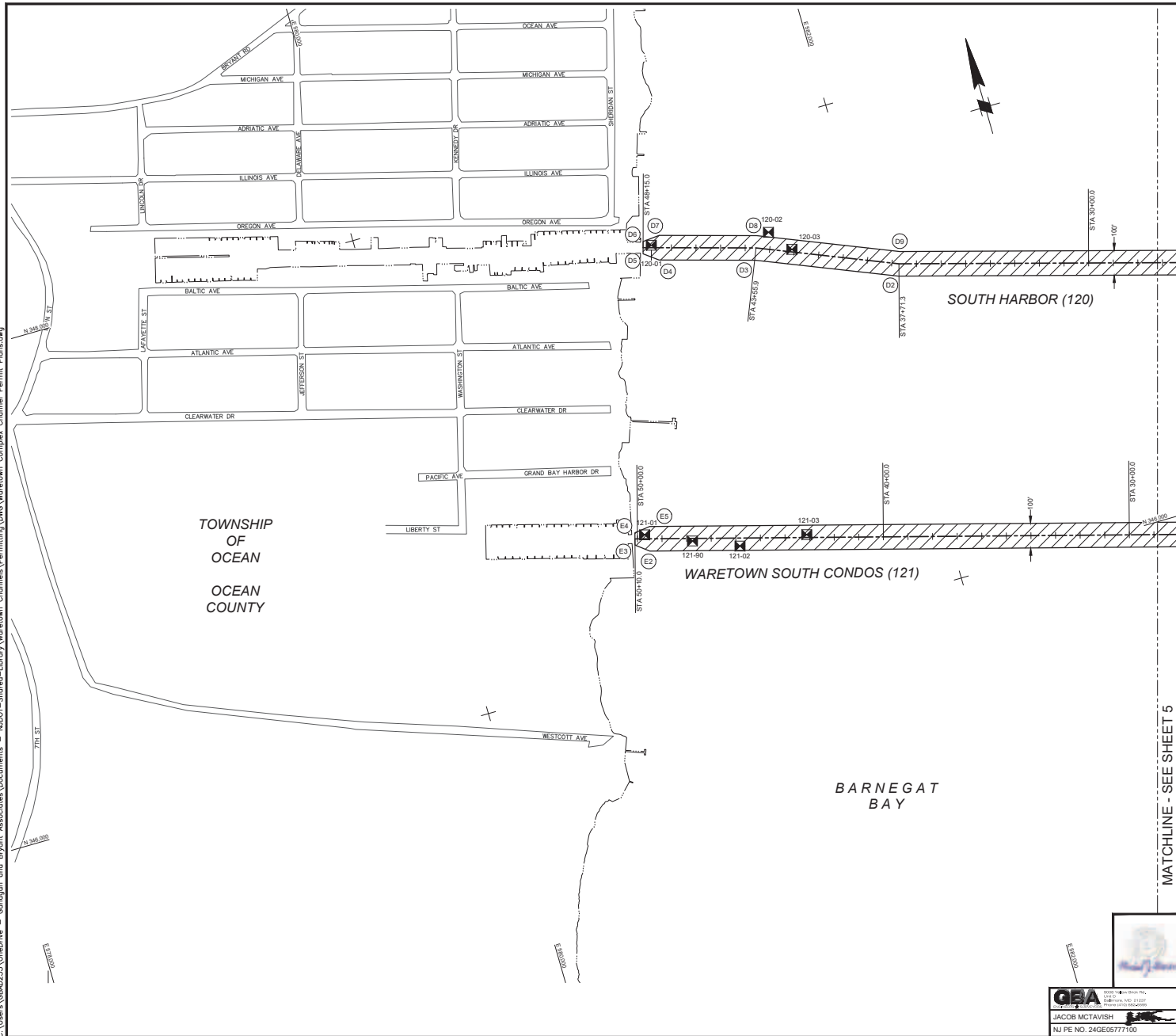
GBA
JACOB MCTAVISH
NJ PE NO. 24GE05777100

DRAWN BY: JAM
CHECKED BY: SEF
SCALE: AS SHOWN
DATE: SEPT 2024

WSP USA INC.
CERTIFICATION OF AUTHORIZATION
NO. 24GA28028600
MICHAEL J. MARANO
NEW JERSEY PROFESSIONAL ENGINEER
NO. 24GE04087500

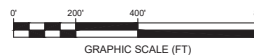
PROJECT NO.
SHEET 5 OF 74
DWG. NO. PERMIT - 04

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 - APPROXIMATE DREDGE AREA
 - CHANNEL SAMPLE LOCATION
 - HISTORIC RESOURCE AND BUFFER



MATCHLINE - SEE SHEET 5

STATE OF NEW JERSEY
NJDOT OFFICE OF MARITIME RESOURCES

TITLE: WARETOWN CHANNEL COMPLEX
CHANNEL ARRANGEMENT & GEOMETRY PLAN

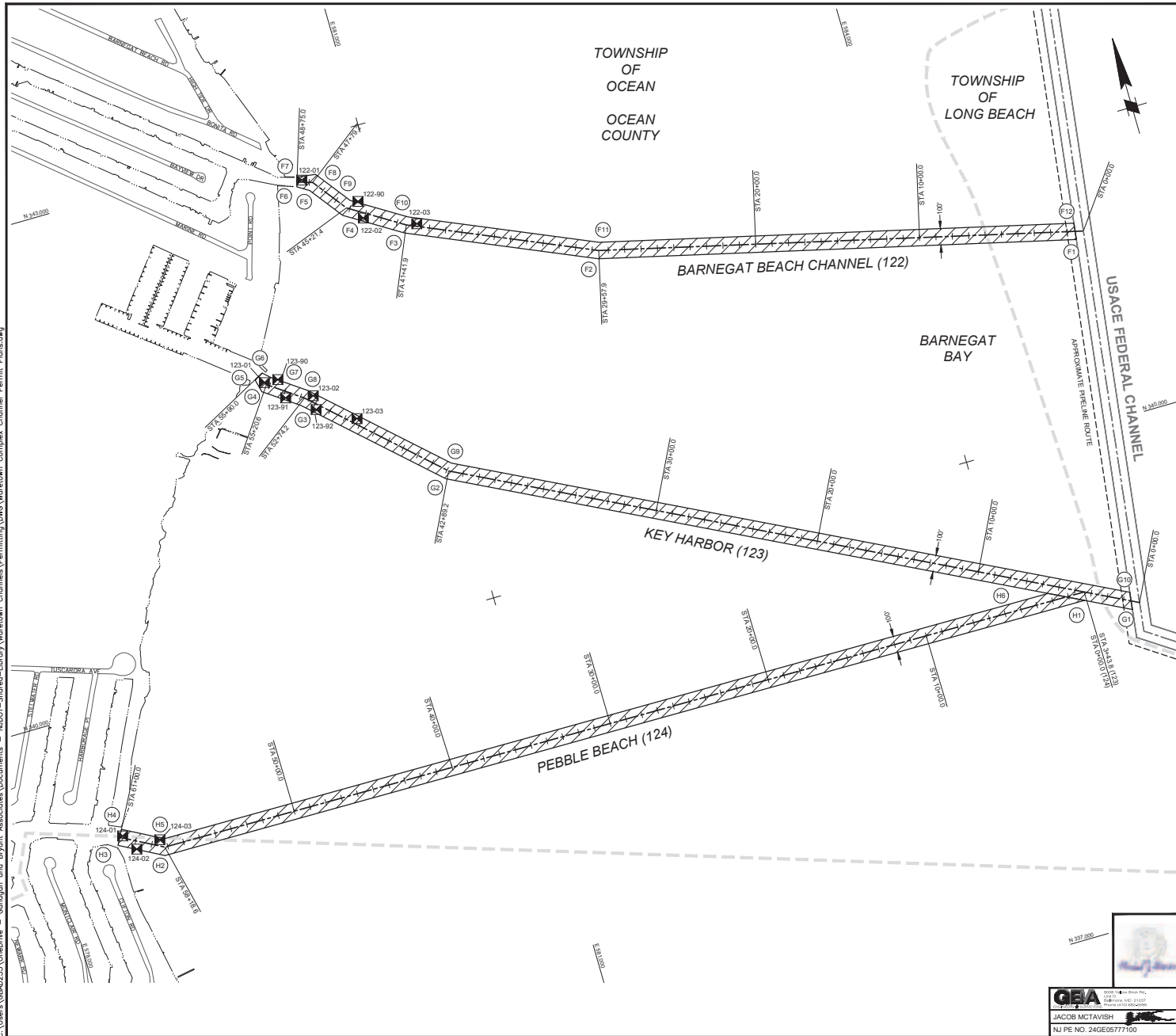
PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE WARETOWN CHANNEL COMPLEX, CHANNEL NOS. 117-135.

BOROUGH OF BARNEGAT LIGHT AND HARVEY CEDARS, TOWNSHIPS OF BARNEGAT, LONG BEACH, AND OCEAN, OCEAN COUNTY, NEW JERSEY

DRAWN BY: JAM	WSP USA INC. CERTIFICATION OF AUTHORIZATION NO. 24GA28028600	PROJECT NO.
CHECKED BY: SEF	MICHAEL J. MARANO NEW JERSEY PROFESSIONAL ENGINEER	SHEET 6 OF 74
SCALE: AS SHOWN	DATE: SEPT 2024	DWG. NO. PERMIT - 05

JACOB MCTAVISH
NJ PE NO. 24GE05777100

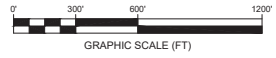
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PROJECT LOCATION MAP
SCALE: 1" = 8,000'

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STATE OF NEW JERSEY
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PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE WARETOWN CHANNEL COMPLEX, CHANNEL NOS. 117-135;

BOROUGH OF BARNEGAT LIGHT AND HARVEY CEDARS, TOWNSHIPS OF BARNEGAT, LONG BEACH, AND OCEAN, OCEAN COUNTY, NEW JERSEY

DRAWN BY: JAM	WSP USA INC. CERTIFICATION OF AUTHORIZATION NO. 24GA28028800	PROJECT NO.
CHECKED BY: SEF	MICHAEL J. MARANO NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE04087500	SHEET 7 OF 74
DATE: SEPT 2024		DWG. NO. PERMIT - 06



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MATCHLINE - SEE SHEET 9

TOWNSHIP OF
OCEAN
OCEAN COUNTY

PEBBLE BEACH (124)

KEY HARBOR
(123)

STA 0+00.0
(PEBBLE BEACH)

STA 0+00.0

APPROXIMATE PIPELINE ROUTE

STA 0+00.0

STA 0+00.0

STA 0+00.0

STA 0+00.0

STA 0+00.0

STA 0+00.0

STA 0+00.0

STA 0+00.0

STA 0+00.0

STA 0+00.0

STA 0+00.0

STA 0+00.0

STA 0+00.0

STA 0+00.0

STA 0+00.0

STA 0+00.0

STA 0+00.0

STA 0+00.0

DOUBLE CREEK MAINLAND CHANNEL (125)

TOWNSHIP OF
BARNEGAT

BARNEGAT BAY

DOUBLE CREEK CHANNEL (126)

USACE FEDERAL CHANNEL

TOWNSHIP OF
LONG BEACH



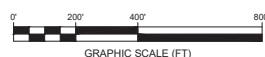
PROJECT LOCATION MAP
SCALE: 1" = 8,000'

NOTES:

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LEGEND

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- APPROXIMATE DREDGE AREA
- CHANNEL SAMPLE LOCATION
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STATE OF NEW JERSEY
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BOROUGH OF BARNEGAT LIGHT AND HARVEY CEDARS, TOWNSHIPS OF BARNEGAT, LONG BEACH, AND OCEAN, OCEAN COUNTY, NEW JERSEY

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CHECKED BY: SEF
SCALE: AS SHOWN
DATE: SEPT 2024

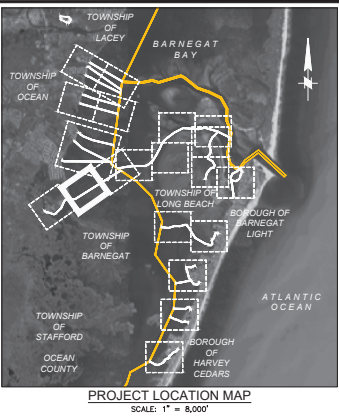
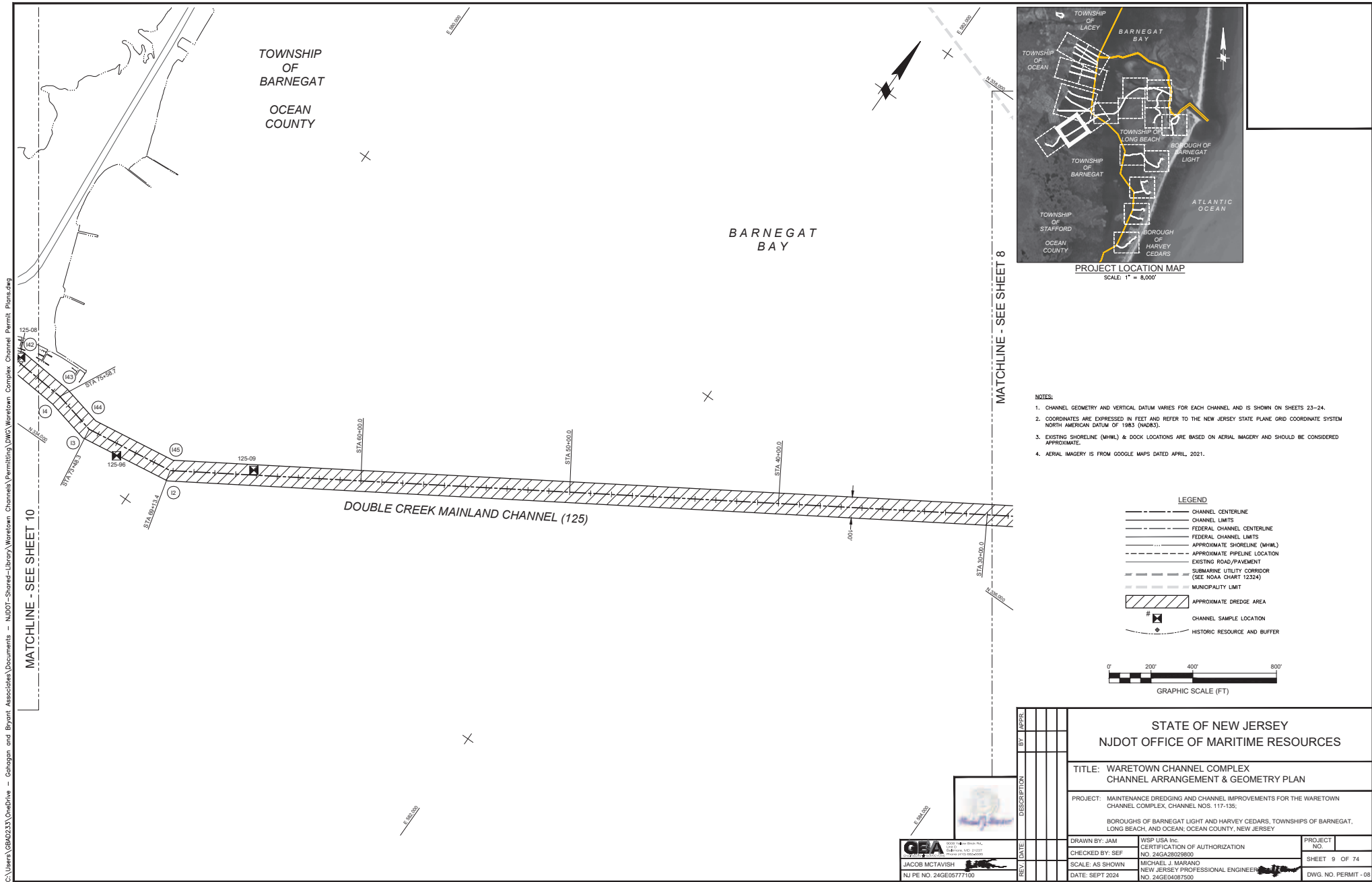
WSP USA INC.
CERTIFICATION OF AUTHORIZATION
NO. 24GA28028600
NEW JERSEY PROFESSIONAL ENGINEER
NO. 24GE04087500

PROJECT NO. 24GA28028600
SHEET 8 OF 74
DWG. NO. PERMIT - 07



JACOB MCTAVISH
NJ PE NO. 24GE05777100

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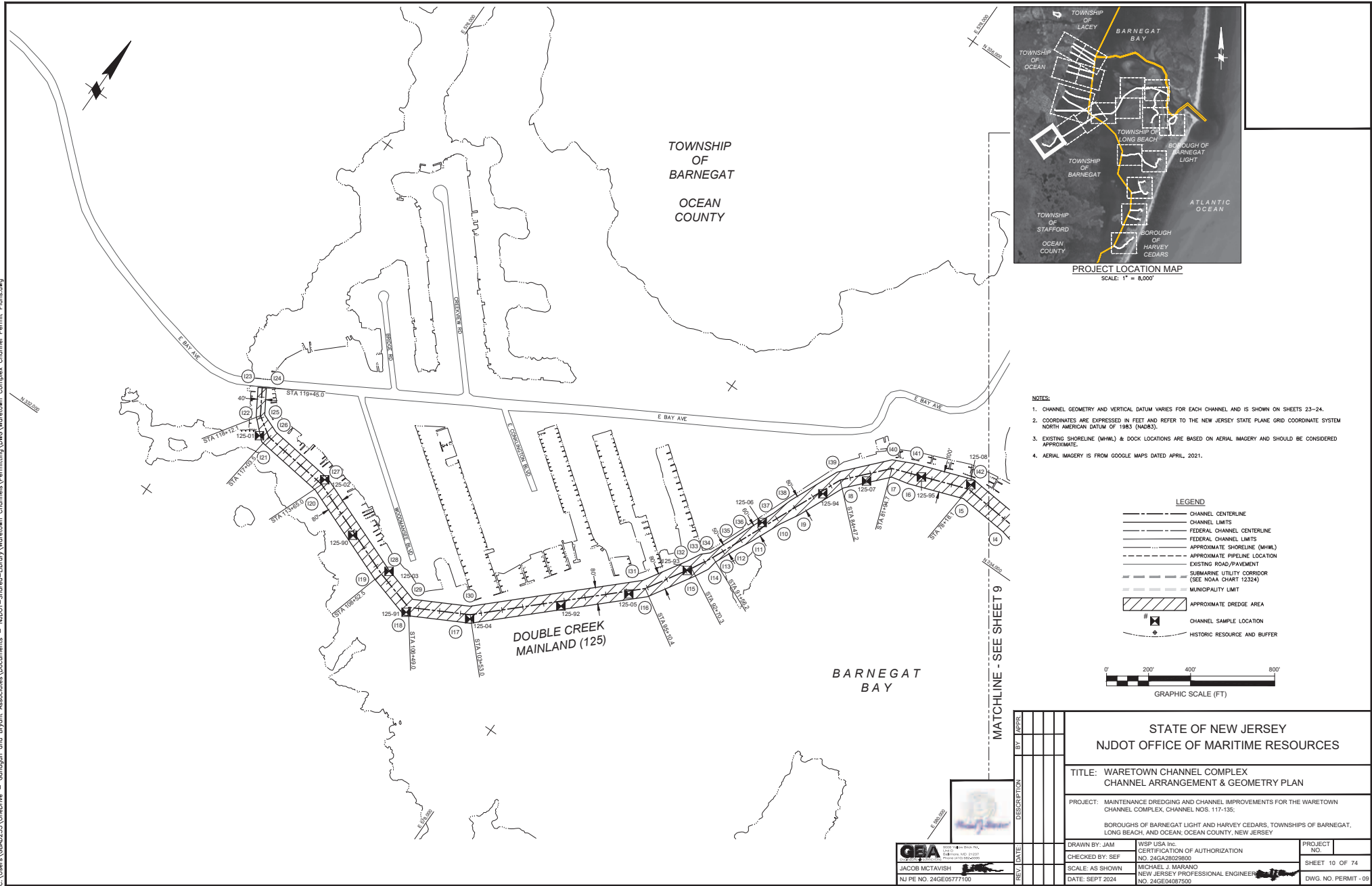
STATE OF NEW JERSEY NJDOT OFFICE OF MARITIME RESOURCES			
TITLE: WARETOWN CHANNEL COMPLEX CHANNEL ARRANGEMENT & GEOMETRY PLAN			
PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE WARETOWN CHANNEL COMPLEX, CHANNEL NOS. 117-135; BOROUGH OF BARNEGAT LIGHT AND HARVEY CEDARS, TOWNSHIPS OF BARNEGAT, LONG BEACH, AND OCEAN, OCEAN COUNTY, NEW JERSEY			
DRAWN BY: JAM	WSP USA Inc.	CERTIFICATION OF AUTHORIZATION	PROJECT NO.
CHECKED BY: SEF	NO. 24GA28028600		SHEET 9 OF 74
SCALE: AS SHOWN	MICHAEL J. MARIANO	NEW JERSEY PROFESSIONAL ENGINEER	
DATE: SEPT 2024	NO. 24GE04087500		DWG. NO. PERMIT - 08

REV	DATE	DESCRIPTION	BY	APPR

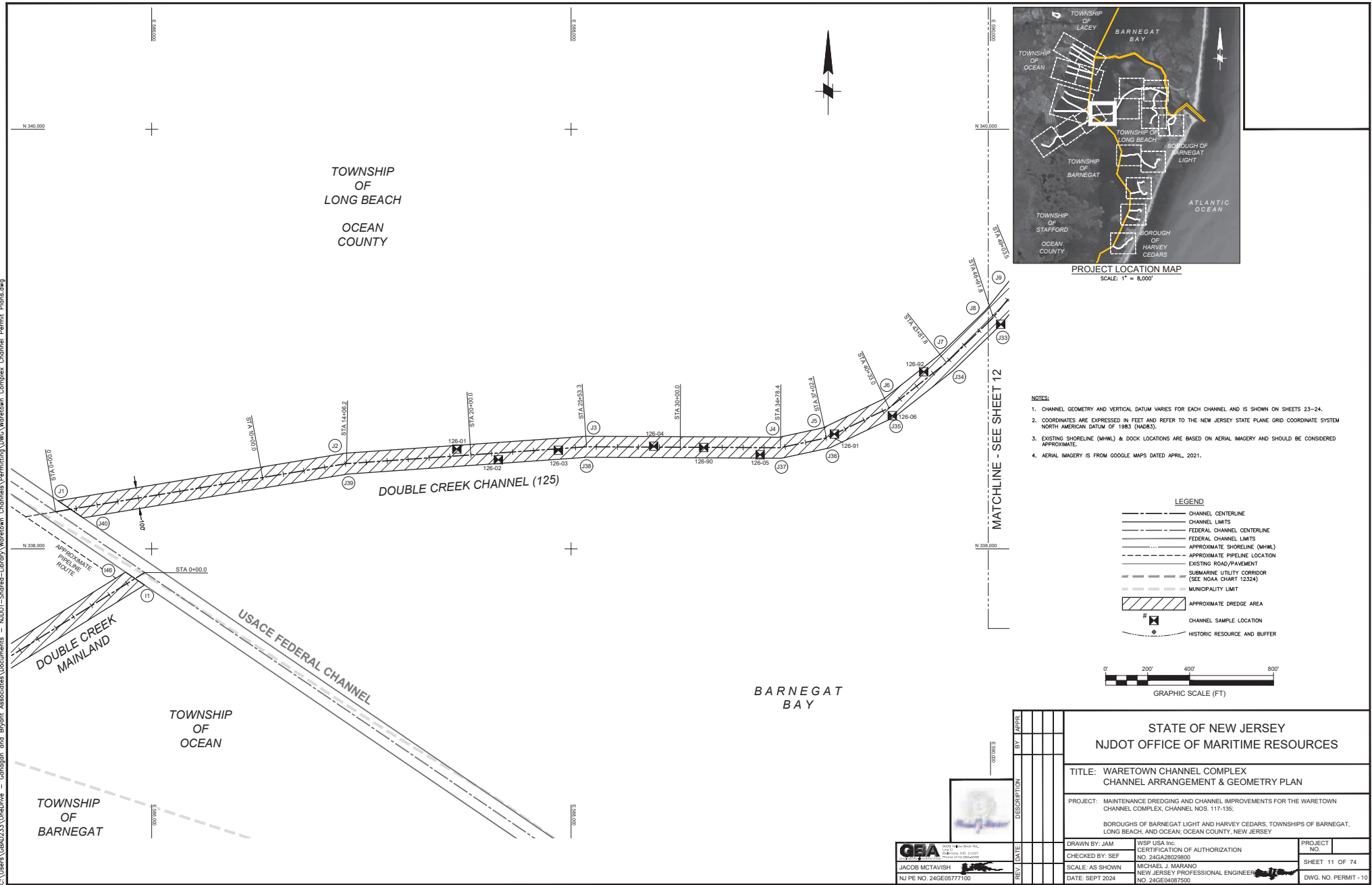
GEA Geotechnical Engineering Associates, Inc.
2400 New York Ave., Suite 200
New York, NY 10002
Tel: (212) 766-2000
Fax: (212) 766-2001
www.gea.com

JACOB MCTAVISH
NJ PE NO. 24GE05777100

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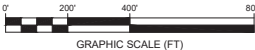
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PROJECT LOCATION MAP
SCALE: 1" = 8,000'

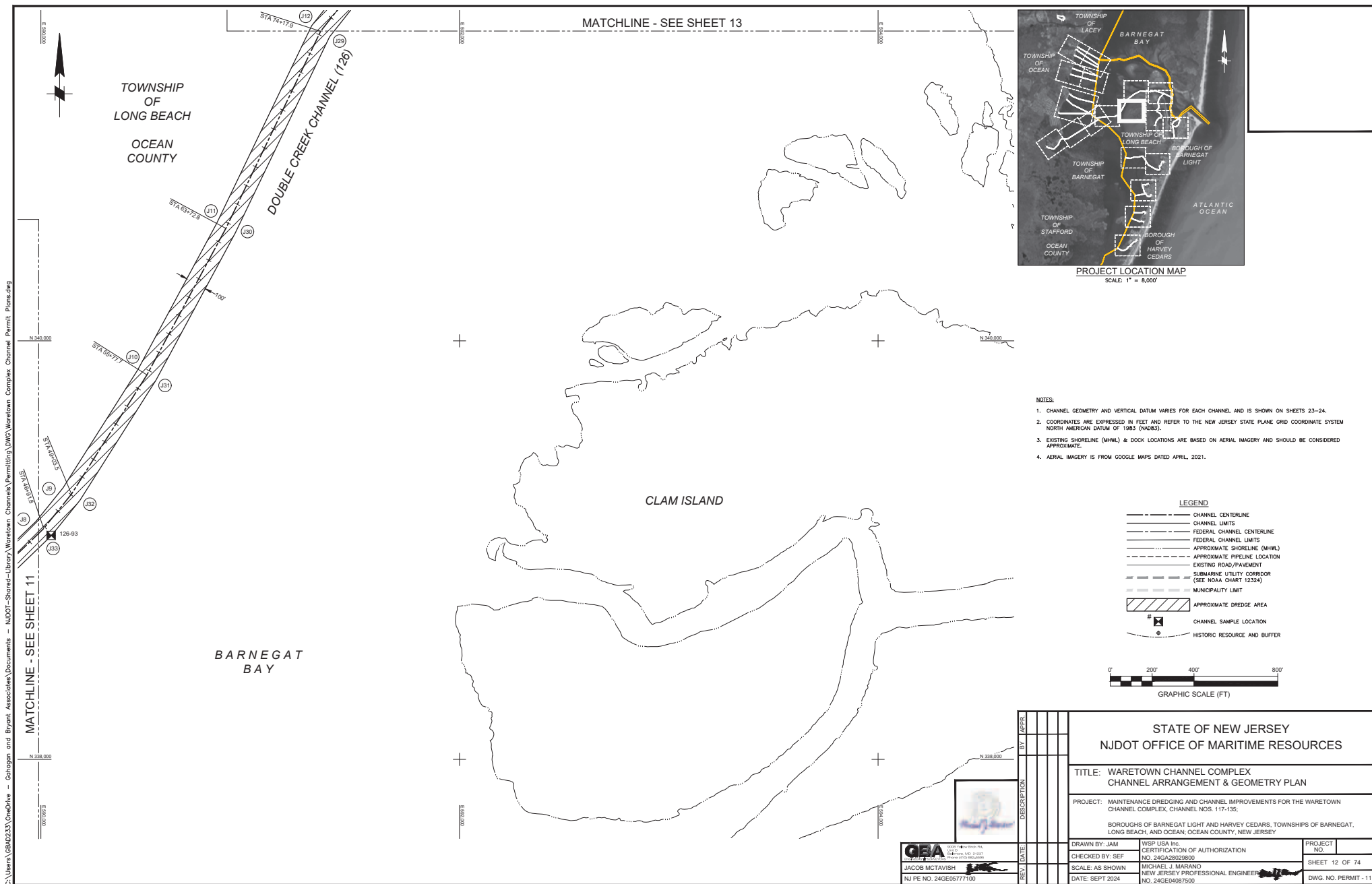
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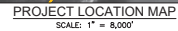
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STATE OF NEW JERSEY NJDOT OFFICE OF MARITIME RESOURCES	
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DRAWN BY: JAM	WSP USA, INC. CERTIFICATION OF AUTHORIZATION NO. 24GA28028600
CHECKED BY: SEF	MICHAEL J. MARANO NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE04087500
DATE: SEPT 2024	PROJECT NO. 24GE04087500
SHEET 11 OF 74 DWG. NO. PERMIT -10	





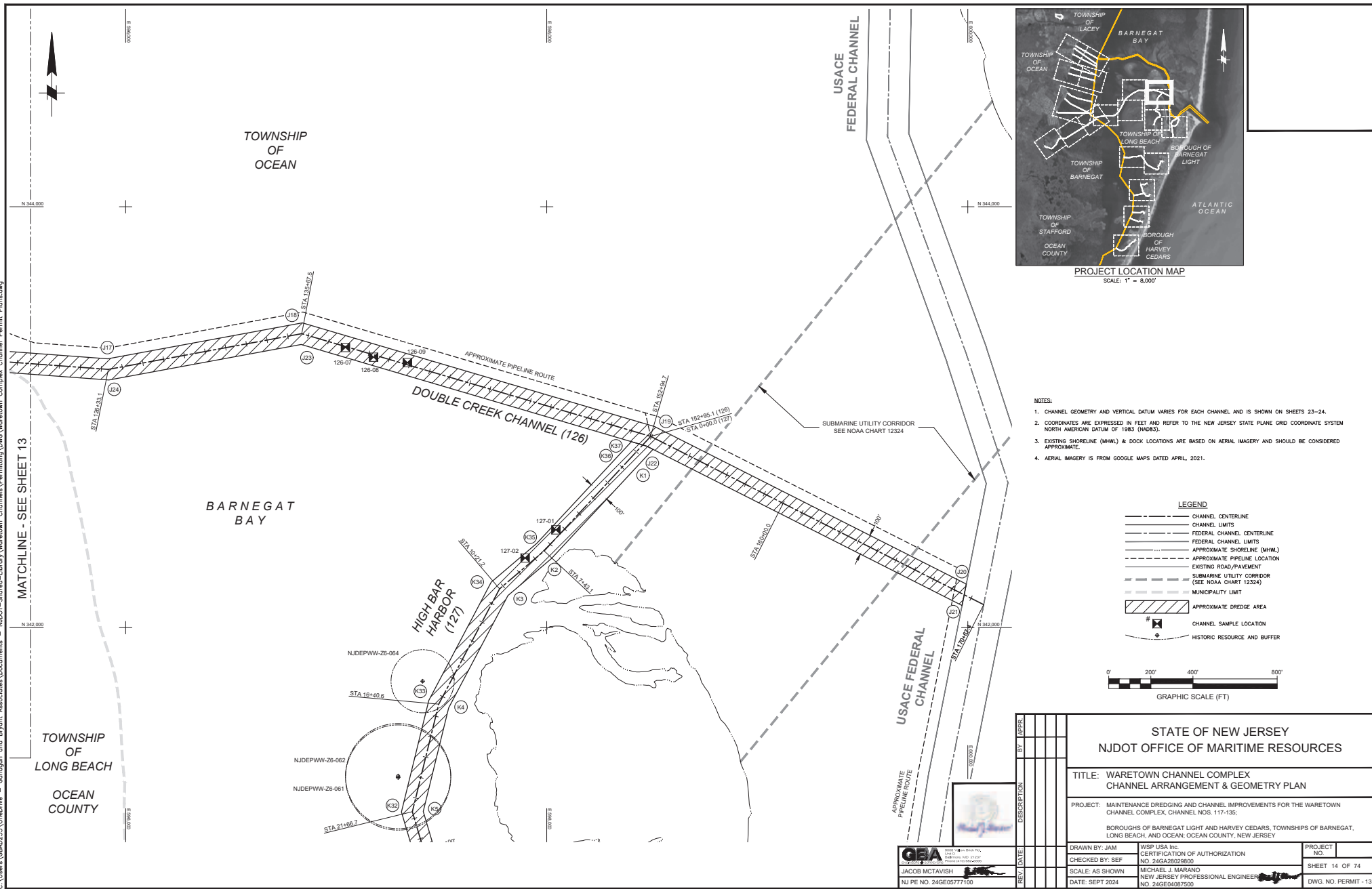


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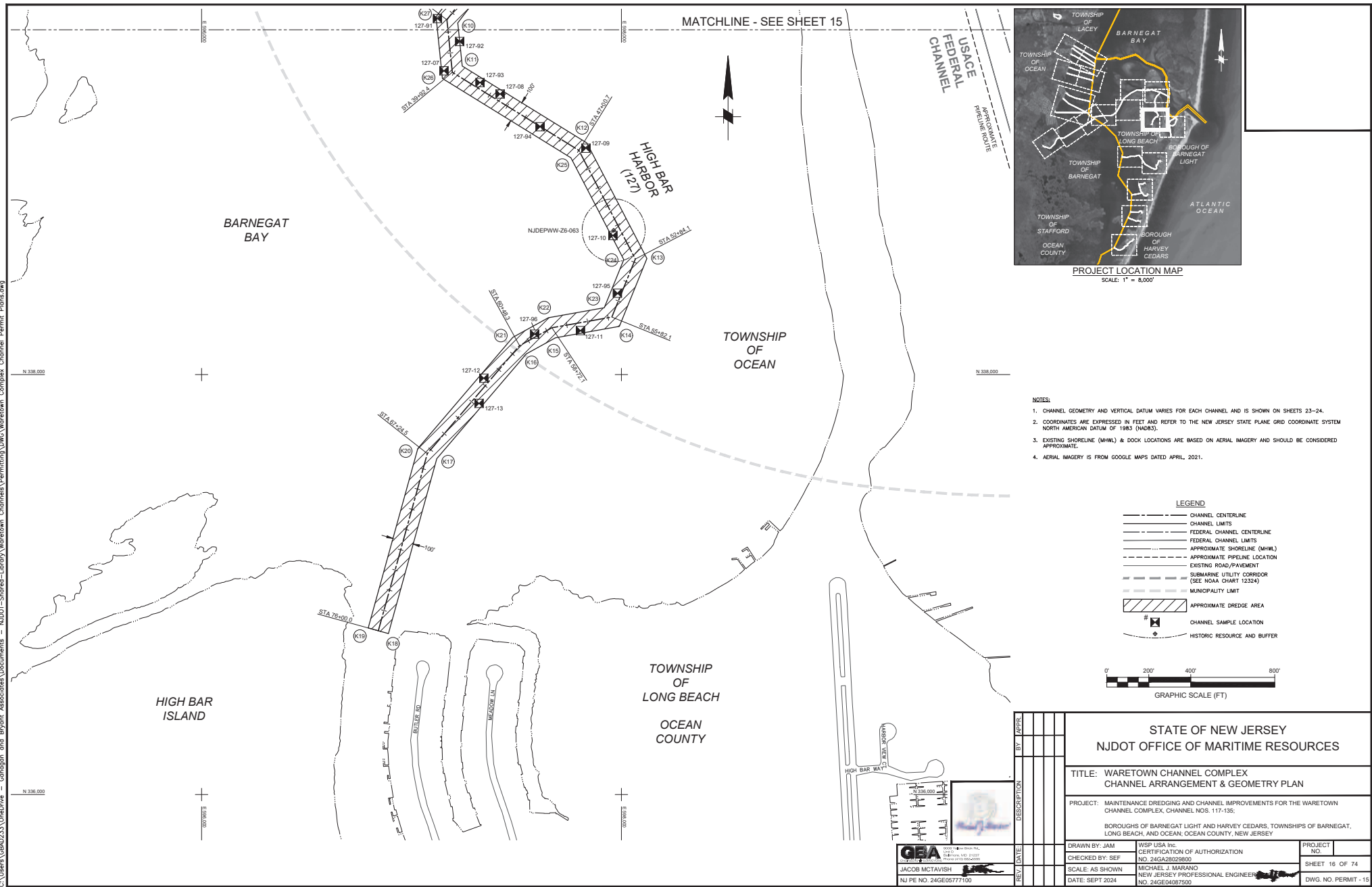
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DATE: SEPT 2024	NO. 24GE04087500	DWG. NO. PERMIT - 12



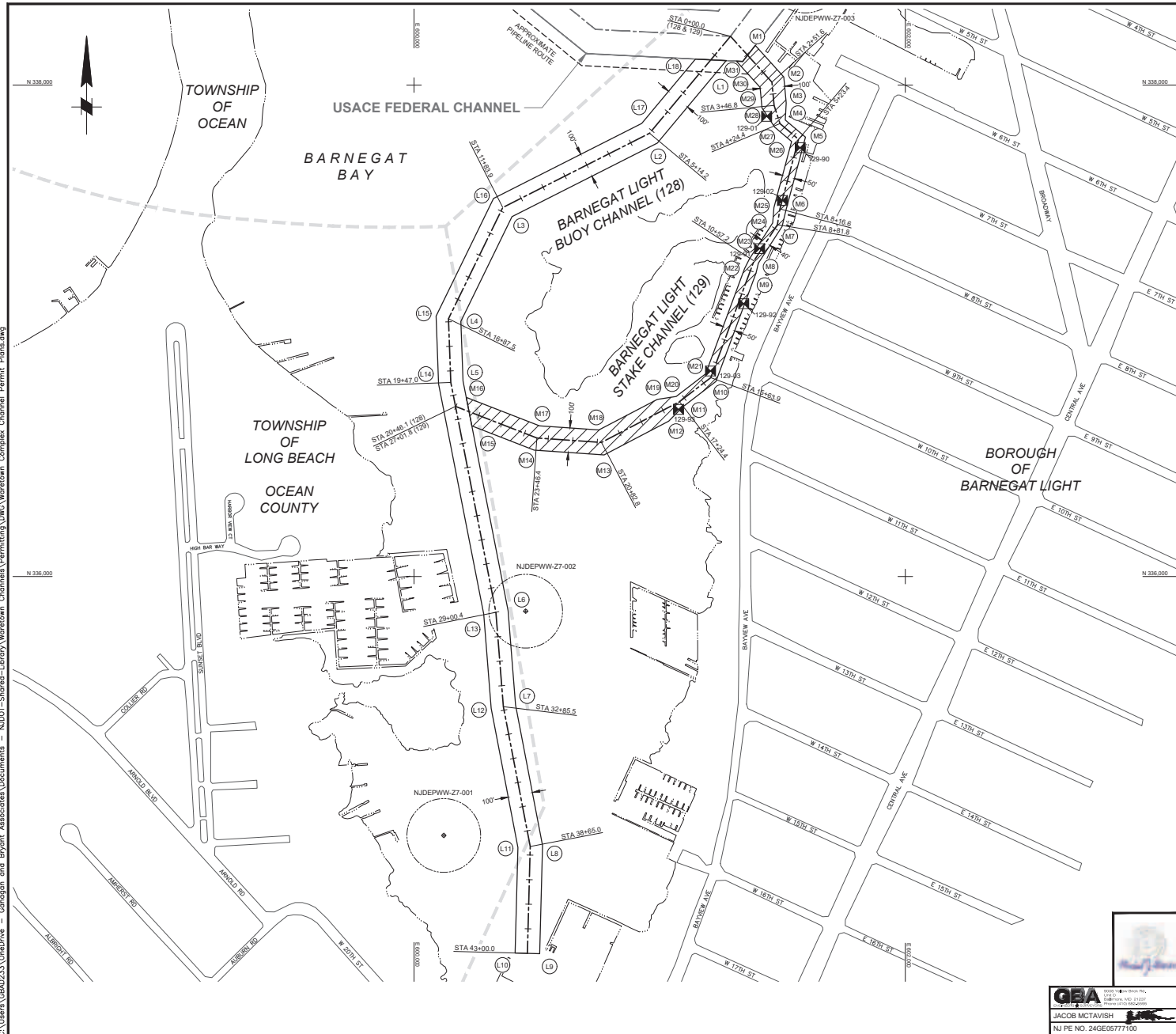
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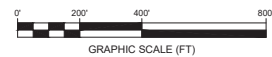
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PROJECT LOCATION MAP
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STATE OF NEW JERSEY
NJDOT OFFICE OF MARITIME RESOURCES

TITLE: WARETOWN CHANNEL COMPLEX
CHANNEL ARRANGEMENT & GEOMETRY PLAN

PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE WARETOWN CHANNEL COMPLEX, CHANNEL NOS. 117-135.

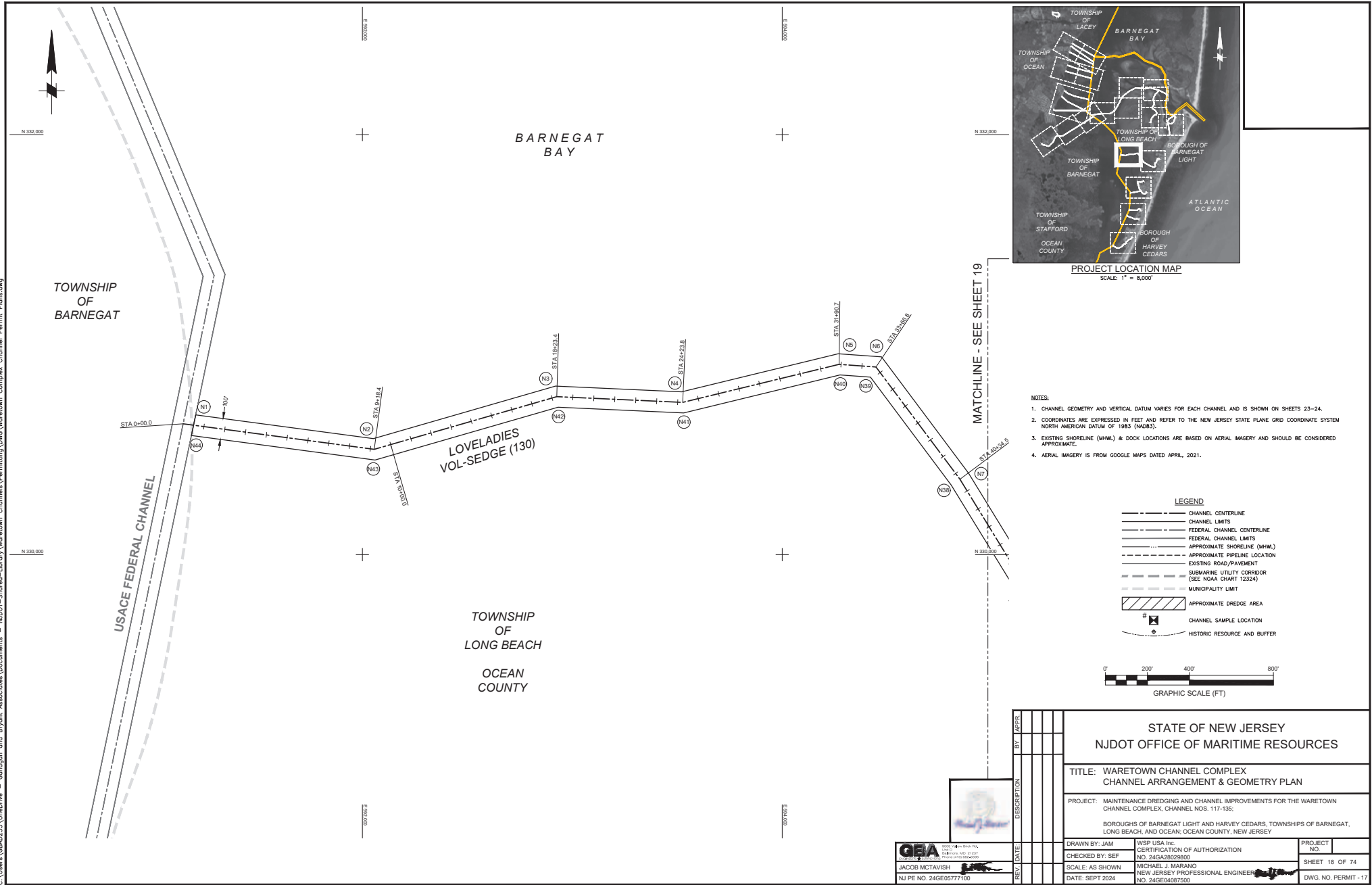
BOROUGH OF BARNEGAT LIGHT AND HARVEY CEDARS, TOWNSHIPS OF BARNEGAT, LONG BEACH, AND OCEAN, OCEAN COUNTY, NEW JERSEY

DRAWN BY: JAM	WSP USA INC. CERTIFICATION OF AUTHORIZATION NO. 24GA28028800	PROJECT NO.
CHECKED BY: SEF	MICHAEL J. MARANO NEW JERSEY PROFESSIONAL ENGINEER	SHEET 17 OF 74
SCALE: AS SHOWN	DATE: SEPT 2024	DWG. NO. PERMIT -16

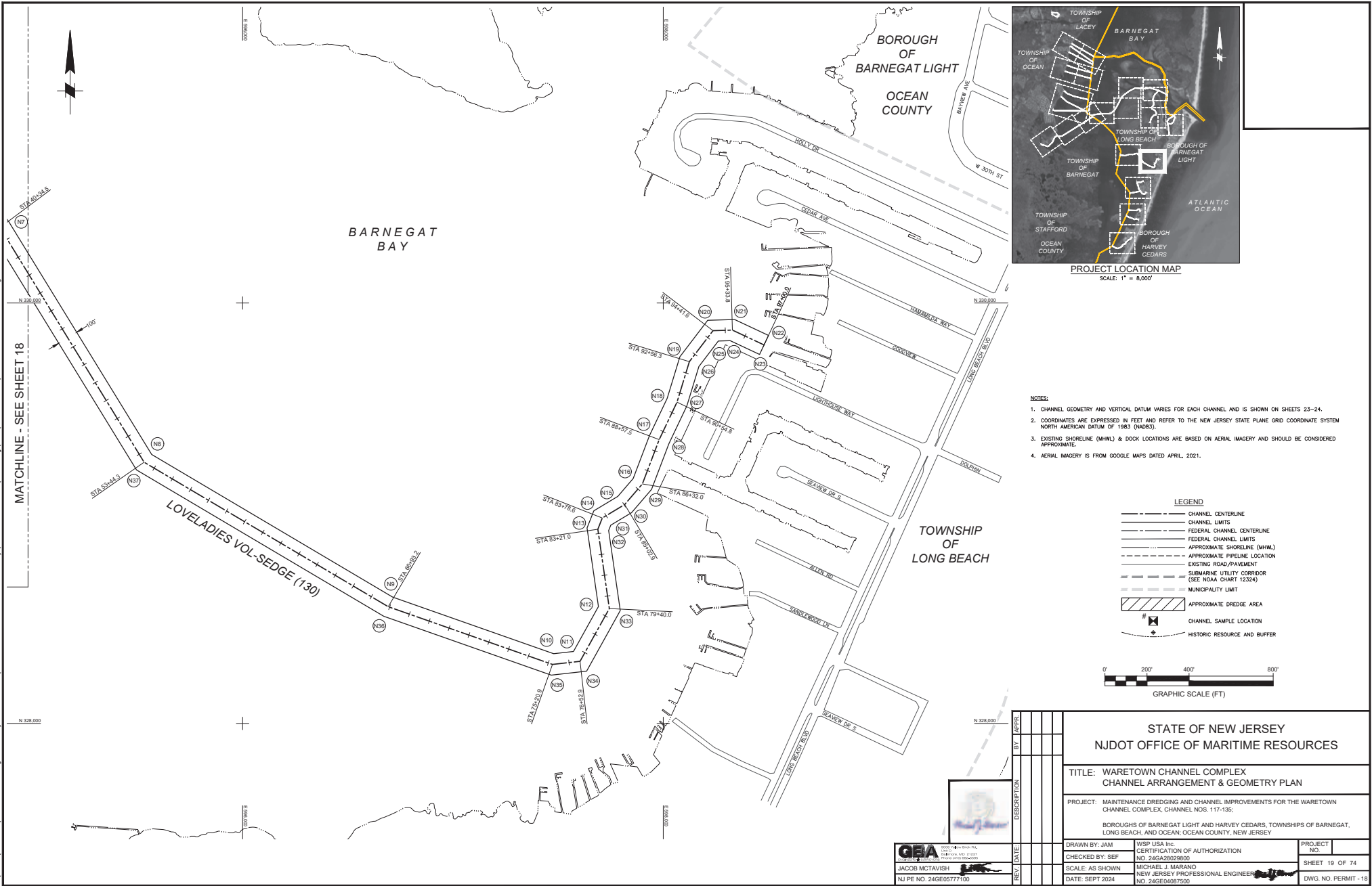


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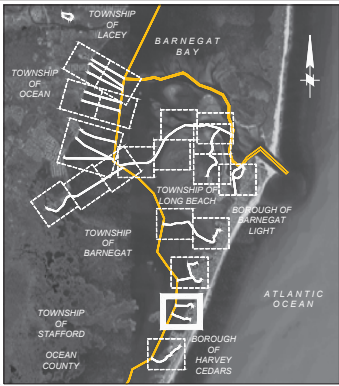
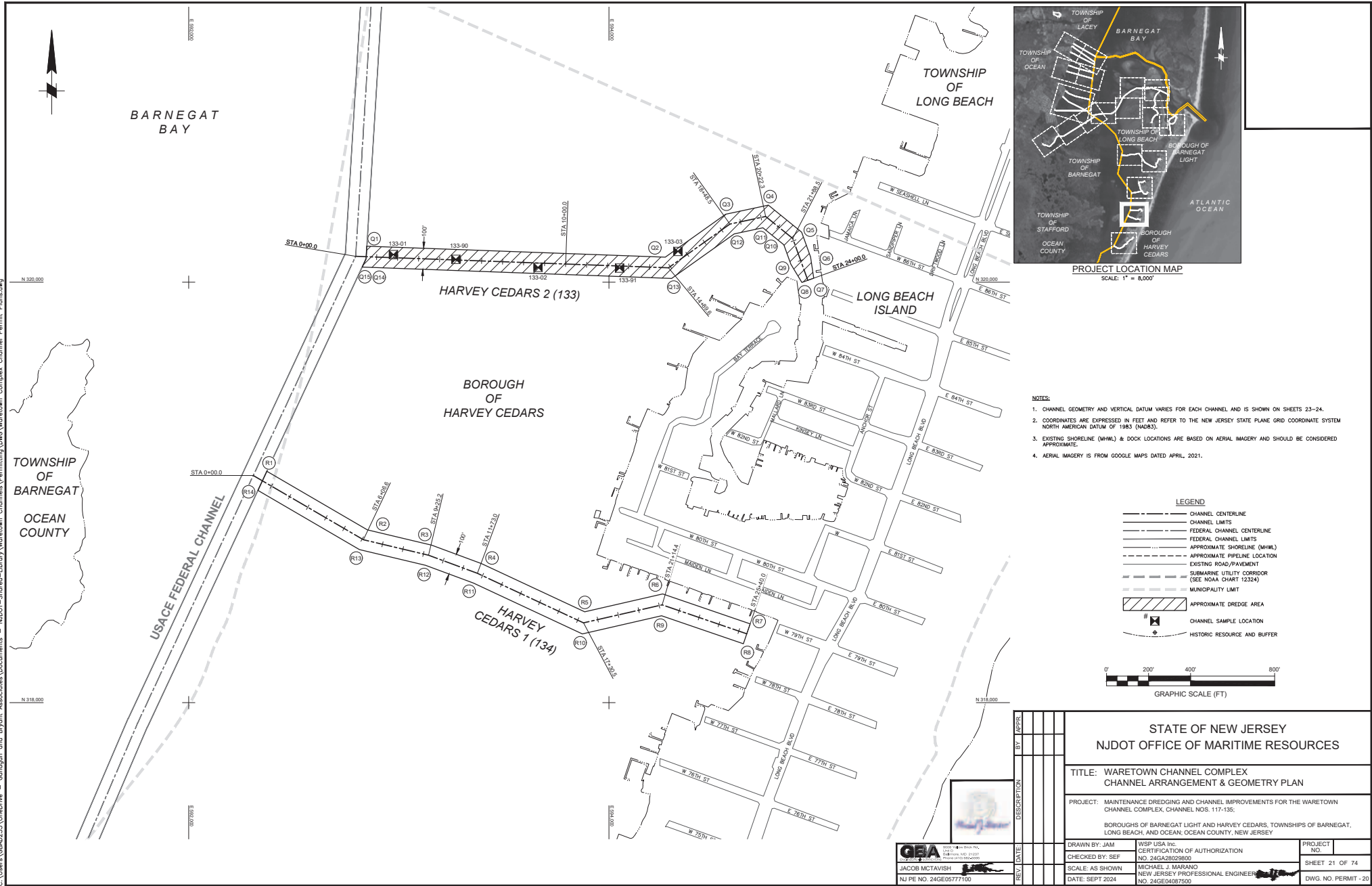
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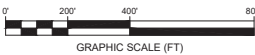


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- NOTES:
1. CHANNEL GEOMETRY AND VERTICAL DATUM VARIES FOR EACH CHANNEL AND IS SHOWN ON SHEETS 23-24.
 2. COORDINATES ARE EXPRESSED IN FEET AND REFER TO THE NEW JERSEY STATE PLANE GRID COORDINATE SYSTEM NORTH AMERICAN DATUM OF 1983 (NAD83).
 3. EXISTING SHORELINE (MHWL) & DOCK LOCATIONS ARE BASED ON AERIAL IMAGERY AND SHOULD BE CONSIDERED APPROXIMATE.
 4. AERIAL IMAGERY IS FROM GOOGLE MAPS DATED APRIL, 2021.

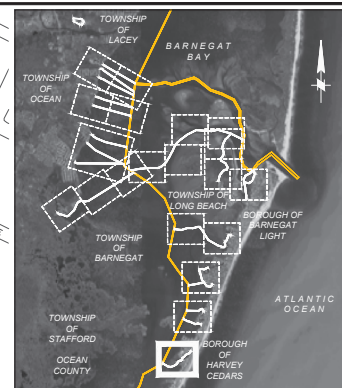
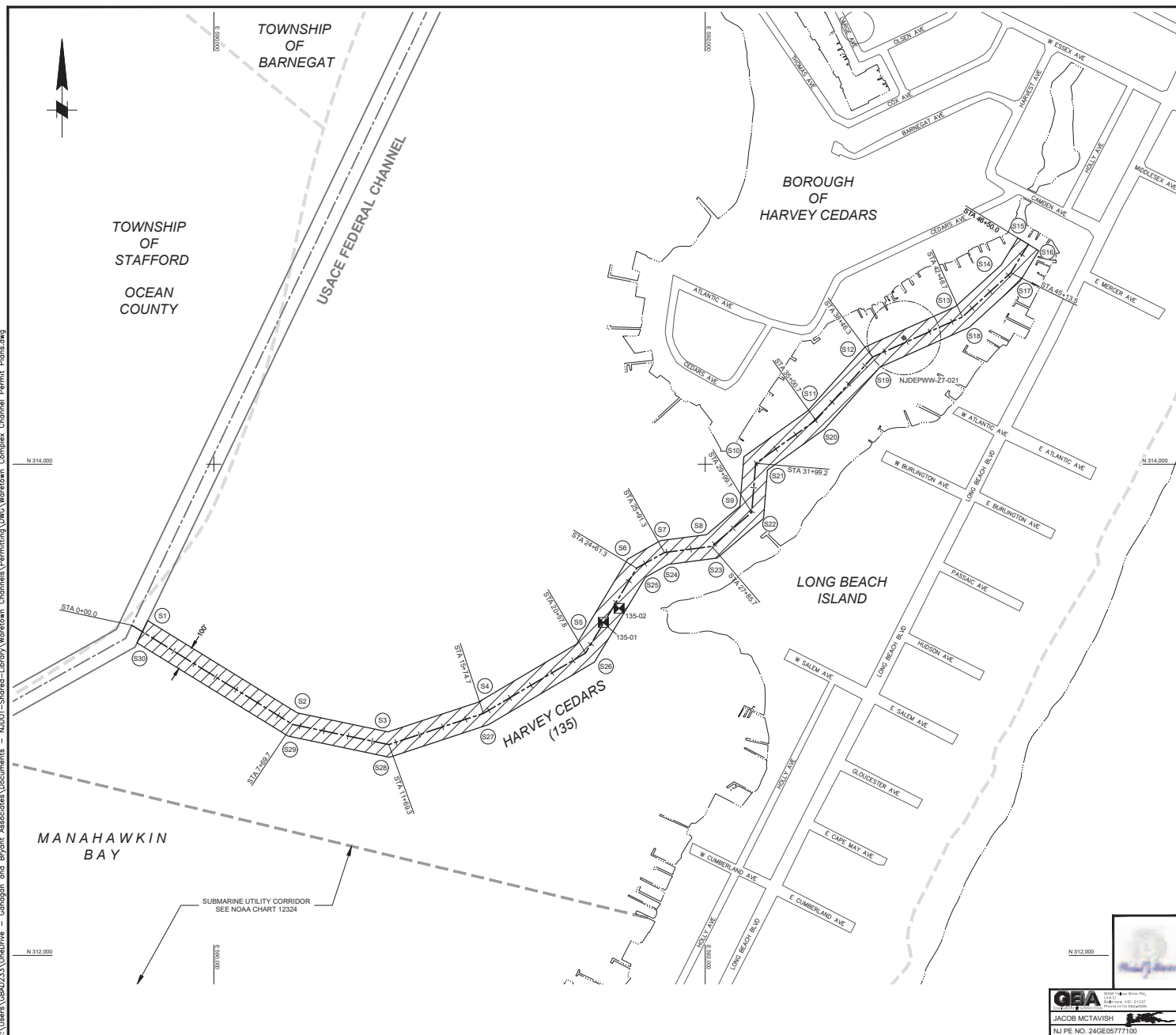
- LEGEND
- CHANNEL CENTERLINE
 - CHANNEL LIMITS
 - FEDERAL CHANNEL CENTERLINE
 - FEDERAL CHANNEL LIMITS
 - APPROXIMATE SHORELINE (MHWL)
 - APPROXIMATE PIPELINE LOCATION
 - EXISTING ROAD/PAVEMENT
 - SUBMARINE UTILITY CORRIDOR (SEE NOAA CHART 12324)
 - MUNICIPALITY LIMIT
 - APPROXIMATE DREDGE AREA
 - CHANNEL SAMPLE LOCATION
 - HISTORIC RESOURCE AND BUFFER



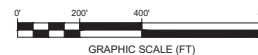
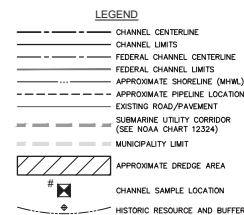
STATE OF NEW JERSEY NJDOT OFFICE OF MARITIME RESOURCES	
TITLE: WARETOWN CHANNEL COMPLEX CHANNEL ARRANGEMENT & GEOMETRY PLAN	
PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE WARETOWN CHANNEL COMPLEX, CHANNEL NOS. 117-135.	
BOROUGH OF BARNEGAT LIGHT AND HARVEY CEDARS, TOWNSHIPS OF BARNEGAT, LONG BEACH, AND OCEAN, OCEAN COUNTY, NEW JERSEY	
DRAWN BY: JAM	WSP USA INC. CERTIFICATION OF AUTHORIZATION NO. 24GA28028800
CHECKED BY: SEF	MICHAEL J. MARANO NEW JERSEY PROFESSIONAL ENGINEER
SCALE: AS SHOWN	DATE: SEPT 2024
NO. 24GE04087500	DWG. NO. PERMIT - 20



NJ PE NO. 24GE05777100



- NOTES:
1. CHANNEL GEOMETRY AND VERTICAL DATUM VARIES FOR EACH CHANNEL AND IS SHOWN ON SHEETS 23-24.
 2. COORDINATES ARE EXPRESSED IN FEET AND REFER TO THE NEW JERSEY STATE PLANE GRID COORDINATE SYSTEM NORTH AMERICAN DATUM OF 1983 (NAD83).
 3. EXISTING SHORELINE (WHWL) & DOCK LOCATIONS ARE BASED ON AERIAL IMAGERY AND SHOULD BE CONSIDERED APPROXIMATE.
 4. AERIAL IMAGERY IS FROM GOOGLE MAPS DATED APRIL, 2021.



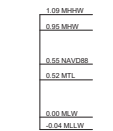
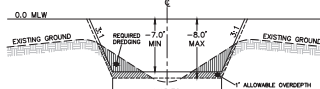
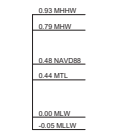
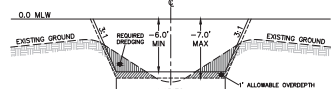
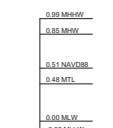
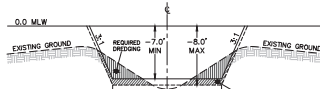
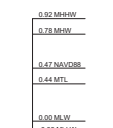
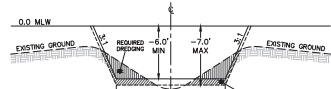
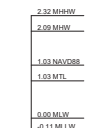
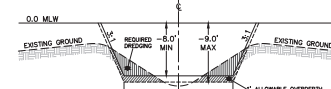
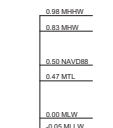
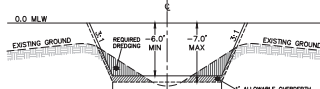
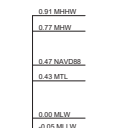
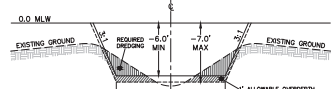
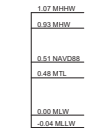
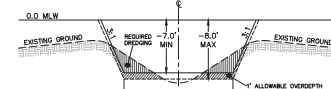
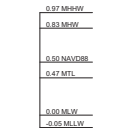
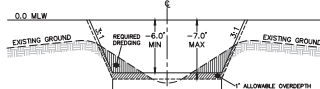
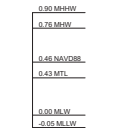
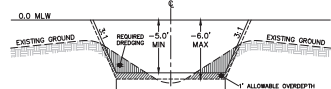
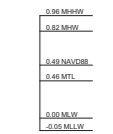
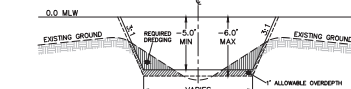
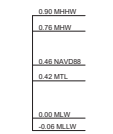
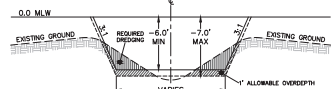
BY	APPRO		
DESCRIPTION			
REV	DATE		

STATE OF NEW JERSEY

NJDOT OFFICE OF MARITIME RESOURCES

TITLE: WARETOWN CHANNEL COMPLEX CHANNEL ARRANGEMENT & GEOMETRY PLAN	
PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE WARETOWN CHANNEL COMPLEX, CHANNEL NOS. 117-135;	
BOROUGHES OF BARNEGAT LIGHT AND HARVEY CEDARS, TOWNSHIPS OF BARNEGAT, LONG BEACH, AND OCEAN; OCEAN COUNTY, NEW JERSEY	
DRAWN BY: JAM CHECKED BY: SEF SCALE: AS SHOWN DATE: SEPT 2004	WSP USA Inc. CERTIFICATION OF AUTHORIZATION NO. 246CA28202800 MICHAEL J. MARANO NEW JERSEY PROFESSIONAL ENGINEER PROJECT NO. SHEET 22 OF 74 DWG. NO. PERMIT -

C:\Users\CBAD233\OneDrive - NJDOT - Shared Library\Waretown Channel\Permitting\DWG\Waretown Complex Channel Permit Plans.dwg



NOTES:

1. VERTICAL DATUM IS IN REFERENCE TO MEAN LOW WATER (MLW). MLW IS BELOW THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88) AND THE CONVERSION VARIES BY CHANNEL. INFORMATION OBTAINED FROM NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION (NOAA) VORTUM DATUM TRANSFORMATION PROGRAM, VERSIONS 4.3, 4.4.2, AND 4.5.1.

STATE OF NEW JERSEY
NJDOT OFFICE OF MARITIME RESOURCES

TITLE: WARETOWN CHANNEL COMPLEX
CHANNEL GEOMETRY TEMPLATES AND VERTICAL DATUMS

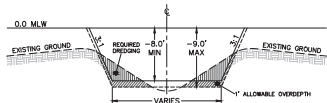
PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE WARETOWN CHANNEL COMPLEX, CHANNEL NOS. 117-135;

BOROUGHES OF BARNEGAT LIGHT AND HARVEY CEDARS, TOWNSHIPS OF BARNEGAT, LONG BEACH, AND OCEAN, OCEAN COUNTY, NEW JERSEY

DRAWN BY: JAM	WSP USA INC.	PROJECT NO.
CHECKED BY: SEF	CERTIFICATION OF AUTHORIZATION	NO. 24GA28028600
SCALE: AS SHOWN	MICHAEL J. MARANO	SHEET 23 OF 74
DATE: SEPT 2024	NEW JERSEY PROFESSIONAL ENGINEER	DWG. NO. PERMIT - 22



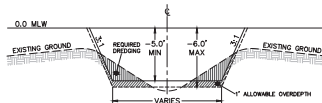
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TYPICAL SECTION: BARNEGAT LIGHT STAKE CHANNEL (129) STA 0+00.0 to 27+01.8
NOT TO SCALE



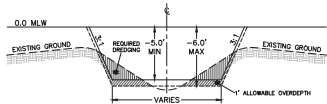
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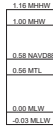
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NOT TO SCALE



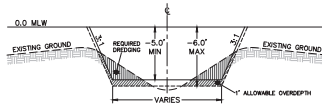
RANGE OF TIDE (FT)
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TYPICAL SECTION: LOVELADIES VOL-SEGE (130) STA 0+00.0 to 97+00.0
NOT TO SCALE



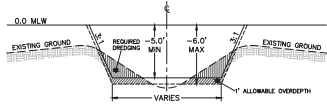
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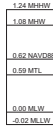
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NOT TO SCALE



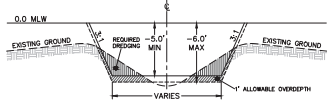
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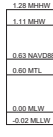
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NOT TO SCALE



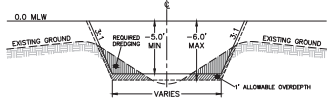
RANGE OF TIDE (FT)
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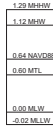
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NOT TO SCALE



RANGE OF TIDE (FT)
NOT TO SCALE



TYPICAL SECTION: HARVEY CEDARS 2 (133) STA 0+00.0 to 24+00.0
NOT TO SCALE



RANGE OF TIDE (FT)
NOT TO SCALE

NOTES:

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STATE OF NEW JERSEY NJDOT OFFICE OF MARITIME RESOURCES	
TITLE: WARETOWN CHANNEL COMPLEX CHANNEL GEOMETRY TEMPLATES AND VERTICAL DATUMS	
PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE WARETOWN CHANNEL COMPLEX, CHANNEL NOS. 117-135; BOROUGH OF BARNEGAT LIGHT AND HARVEY CEDARS, TOWNSHIPS OF BARNEGAT, LONG BEACH, AND OCEAN, OCEAN COUNTY, NEW JERSEY	
DRAWN BY: JAM	WSP USA INC. CERTIFICATION OF AUTHORIZATION NO. 24GA28028600
CHECKED BY: SEF	MICHAEL J. MARANO NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE04087500
SCALE: AS SHOWN	DATE: SEPT 2024
DWG. NO. PERMIT - 23	

REV	DATE	DESCRIPTION	BY	APPR



NEW JERSEY
NJ PE NO. 24GE05777100

117 HOLIDAY HARBOR CHANNEL CENTERLINE COORDINATES		
STATION	NORTHING	EASTING
0+00.0	349,379.2	586,141.2
47+40.0	351,768.9	582,047.7

117 HOLIDAY HARBOR CHANNEL COORDINATES		
POINT	NORTHING	EASTING
A1	349,352.7	586,087.4
A2	351,680.3	582,100.2
A3	351,743.0	582,032.6
A4	351,794.8	582,062.8
A5	351,766.7	582,150.6
A6	349,449.5	586,119.9
A7	349,393.8	586,092.7

117 HOLIDAY HARBOR CHANNEL SAMPLE LOCATION COORDINATES		
BORING	NORTHING	EASTING
117-01	582,126.1	351,772.5
117-02	582,319.9	351,584.3
117-03	582,607.5	351,500.1
117-04	581,794.8	351,706.1
117-01	582,351.4	351,677.7
117-02	582,524.3	351,450.7

123 KEY HARBOR CHANNEL CENTERLINE COORDINATES		
STATION	NORTHING	EASTING
0+00.0	338,887.2	584,778.9
42+89.2	340,819.8	580,949.7
52+74.2	341,489.5	580,227.3
55+20.6	341,632.2	580,026.5
55+00.0	341,693.6	579,994.2

123 KEY HARBOR CHANNEL COORDINATES		
POINT	NORTHING	EASTING
G1	338,858.6	584,724.7
G2	340,778.3	580,920.8
G3	341,450.6	580,195.7
G4	341,598.3	579,987.8
G5	341,679.6	579,967.6
G6	341,707.5	580,020.7
G7	341,666.0	580,065.2
G8	341,528.3	580,258.9
G9	340,861.3	580,978.5
G10	338,963.7	584,738.4

123 KEY HARBOR CHANNEL SAMPLE LOCATION COORDINATES		
BORING	NORTHING	EASTING
123-01	580,017.4	341,847.2
123-02	580,282.2	341,488.3
123-03	580,500.2	341,280.7
123-06	580,102.0	341,842.2
123-01	580,116.9	341,522.0
123-02	580,276.5	341,402.3

118 SKIPPERS COVE CHANNEL CENTERLINE COORDINATES		
STATION	NORTHING	EASTING
0+00.0	348,226.5	586,000.5
48+74.8	351,100.0	582,013.2
50+80.3	351,245.6	581,868.3
51+57.9	351,281.2	581,799.3
52+50.0	351,275.3	581,707.4

118 SKIPPERS COVE CHANNEL COORDINATES		
POINT	NORTHING	EASTING
B1	348,271.9	585,947.0
B2	351,061.6	581,980.9
B3	351,204.8	581,838.4
B4	351,255.8	581,794.0
B5	351,250.3	581,709.0
B6	351,300.2	581,705.8
B7	351,306.6	581,804.6
B8	351,286.5	581,898.1
B9	351,138.4	582,045.5
B10	348,384.0	585,961.6

118 SKIPPERS COVE CHANNEL SAMPLE LOCATION COORDINATES		
BORING	NORTHING	EASTING
118-01	581,739.0	351,286.9
118-02	581,867.1	351,275.6
118-03	582,471.0	350,778.3
118-06	581,863.0	351,176.4
118-01	582,104.6	351,088.0
118-02	582,140.0	350,965.7

124 PEBBLE BEACH CHANNEL CENTERLINE COORDINATES		
STATION	NORTHING	EASTING
0+00.0	339,042.1	584,471.9
58+18.6	339,092.1	578,653.5
61+00.0	339,225.1	578,405.6

124 PEBBLE BEACH CHANNEL COORDINATES		
POINT	NORTHING	EASTING
H1	338,992.2	584,459.8
H2	339,042.2	578,640.8
H3	339,181.0	579,381.9
H4	339,269.2	578,429.2
H5	339,142.0	579,668.3
H6	339,094.0	584,258.3

124 PEBBLE BEACH CHANNEL SAMPLE LOCATION COORDINATES		
BORING	NORTHING	EASTING
124-01	578,424.9	339,228.5
124-02	578,485.8	339,127.3
124-03	578,636.6	339,143.4

126 DOUBLE CREEK CHANNEL CENTERLINE COORDINATES		
STATION	NORTHING	EASTING
0+00.0	338,177.0	585,042.1
14+06.2	338,406.3	586,929.5
25+53.3	338,486.6	588,073.8
34+78.4	338,482.2	588,998.9
37+02.4	338,528.3	589,201.9
40+33.0	338,671.6	589,516.3
43+81.8	338,887.7	589,790.0
46+91.8	339,102.9	590,013.2
49+03.5	339,267.6	590,146.1
55+77.7	339,837.3	590,508.7
63+72.8	340,537.4	590,883.7
74+17.9	341,479.3	591,336.5
77+05.8	341,752.1	591,552.4
83+77.0	342,156.4	592,010.8
95+00.0	342,840.5	592,951.3
107+40.6	343,386.9	594,030.4
126+33.1	343,227.1	596,917.7
136+40.5	343,398.9	596,336.5
152+06.7	343,909.9	598,493.4
170+87.4	342,109.3	600,075.5

126 DOUBLE CREEK CHANNEL COORDINATES		
POINT	NORTHING	EASTING
J1	338,229.6	585,553.7
J2	338,456.0	586,923.7
J3	338,536.6	588,072.1
J4	338,532.2	588,993.7
J5	338,576.9	589,201.7
J6	338,714.3	589,489.7
J7	338,928.4	589,761.1
J8	339,136.7	589,976.2
J9	339,296.8	590,105.4
J10	339,862.6	590,463.5
J11	340,560.1	590,836.2
J12	341,505.9	591,293.8
J13	341,786.7	591,515.9
J14	342,156.5	591,978.5
J15	342,863.5	592,925.4
J16	343,417.7	594,020.8
J17	343,277.4	596,915.0
J18	343,448.2	596,339.2
J19	343,958.6	598,491.9
J20	342,207.0	599,993.0
J21	342,105.2	599,977.7
J22	342,862.3	598,474.9
J23	343,345.5	596,833.8
J24	343,176.8	595,503.4
J25	343,150.5	594,060.2
J26	342,787.4	592,977.2
J27	342,117.4	592,042.1
J28	341,717.8	591,588.8
J29	341,452.8	591,379.2
J30	340,514.7	590,828.3
J31	339,812.1	590,549.9
J32	339,238.5	590,186.8
J33	339,069.1	590,050.1
J34	338,850.0	589,822.9
J35	338,628.8	589,542.9
J36	338,481.6	589,234.1
J37	338,432.2	589,004.1
J38	338,436.5	588,076.4
J39	338,356.6	586,935.4
J40	338,148.0	585,673.5

126 DOUBLE CREEK CHANNEL SAMPLE LOCATION COORDINATES		
BORING	NORTHING	EASTING
126-01	587,455.1	338,475.7
126-02	587,653.6	338,424.7
126-03	587,939.1	338,470.0
126-04	588,394.3	338,489.4
126-05	588,901.2	338,448.7
126-06	589,531.6	338,634.8
126-07	597,044.0	343,331.3
126-08	597,177.7	343,285.2
126-09	597,338.4	343,259.6
126-10	588,632.4	338,483.1
126-11	589,255.6	338,547.2
126-12	589,681.7	338,844.2
126-13	590,048.9	339,070.5

119 WARETOWN CREEK CHANNEL CENTERLINE COORDINATES		
STATION	NORTHING	EASTING
0+00.0	347,854.9	585,943.3
35+17.7	349,457.8	582,812.0
43+33.3	349,870.9	582,108.8
46+91.7	349,993.9	581,772.2
50+00.0	350,137.6	581,499.4

119 WARETOWN CREEK CHANNEL COORDINATES		
POINT	NORTHING	EASTING
C1	347,826.4	585,899.2
C2	349,413.9	582,787.9
C3	349,825.5	582,087.3
C4	349,948.1	581,751.9
C5	350,049.8	581,564.6
C6	350,111.1	581,485.4
C7	350,164.2	581,513.4
C8	350,135.2	581,611.2
C9	350,039.7	581,762.5
C10	348,916.3	582,130.2
C11	348,501.6	582,836.0
C12	347,851.8	585,992.9

119 WARETOWN CREEK CHANNEL SAMPLE LOCATION COORDINATES		
BORING	NORTHING	EASTING
119-01	581,509.2	350,141.3
119-02	581,815.0	350,020.7
119-03	582,258.6	349,829.4
119-06	581,632.2	350,080.5
119-01	581,708.6	349,986.9

125 DOUBLE CREEK MAINLAND CHANNEL CENTERLINE COORDINATES		
STATION	NORTHING	EASTING
0+00.0	337,887.4	585,967.2
69+13.4	334,234.1	580,097.9
73+48.3	334,173.5	579,667.2
75+58.7	334,221.7	579,462.4
78+18.1	334,243.7	579,204.0
81+94.7	334,115.5	578,849.8
84+47.2	333,908.9	578,679.7
91+56.2	333,279.8	578,394.4
92+70.3	333,178.9	578,341.1
95+10.4	332,974.2	578,216.6
103+53.0	332,394.1	577,604.6
106+49.0	332,254.9	577,343.5
109+52.9	332,310.5	577,147.8
113+69.0	332,496.5	576,670.3
117+03.5	332,557.4	576,394.3
119+12.1	332,597.5	576,243.8
119+46.0	332,711.0	576,174.5

125 DOUBLE CREEK MAINLAND CHANNEL COORDINATES		
POINT	NORTHING	EASTING
I1	337,827.7	585,968.0
I2	334,186.1	580,115.3
I3	334,122.7	579,684.9
I4	334,172.2	579,454.5
I5	334,193.0	579,210.7
I6	334,100.7	578,955.9
I7	334,081.2	578,872.7
I8	333,906.8	578,713.7
I9	333,681.4	578,614.6
I10	333,593.9	578,565.2
I11	333,456.5	578,554.9
I12	333,367.0	578,480.1
I13	333,268.9	578,417.0
I14	332,622.4	578,490.9
I15	333,155.1	578,376.9
I16	332,948.9	578,247.9
I17	332,361.4	577,628.2
I18	332,211.7	577,348.1
I19	332,272.6	577,139.0
I20	332,457.4	576,860.4
I21	332,488.9	576,320.1
I22	332,583.3	576,229.1
I23	332,700.5	576,157.4
I24	332,721.4	576,191.6
I25	332,611.8	576,258.6
I26	332,576.0	576,348.5
I27	332,535.6	576,680.1
I28	332,348.5	577,150.6
I29	332,297.5	577,339.0
I30	332,426.9	577,581.0
I31	332,999.6	578,184.3
I32	333,198.8	578,306.4
I33	333,299.8	578,338.6
I34	333,290.7	578,371.9
I35	333,387.1	578,414.3
I36	333,480.7	578,448.9
I37	333,618.0	578,510.3
I38	333,713.6	578,541.4
I39	333,951.0	578,645.7
I40	334,140.7	578,826.9
I41	334,194.7	578,921.9
I42	334,294.5	579,197.3
I43	334,271.2	579,470.3
I44	334,224.3	579,669.5
I45	334,262.2	580,080.4
I46	337,889.3	585,975.6

125 DOUBLE CREEK MAINLAND CHANNEL SAMPLE LOCATION COORDINATES		
BORING	NORTHING	EASTING
125-01	576,294.5	332,516.6
125-02	576,669.1	332,523.3
125-03	577,169.9	332,341.7
125-04	577,614.0	332,376.7
125-06	578,166.2	332,908.2
125-08	578,491.3	333,550.5
125-07	578,784.8	333,996.9
125-08	579,201.2	334,367.4
125-09	580,423.4	334,464.8
125-10	576,929.7	332,363.2
125-11	577,348.1	332,229.1
125-12	577,594.5	332,675.8
125-13	578,580.0	333,199.2
125-14	578,851.4	333,669.0
125-15	578,987.0	334,102.8
125-16	579,847.3	334,146.1

120 SOUTH HARBOR CHANNEL CENTERLINE COORDINATES		
STATION	NORTHING	EASTING
0+00.0	346,273.9	585,738.0
37+71.3	347,297.6	582,108.3
43+55.9	347,519.8	581,567.6
48+15.0	347,047.4	581,126.6

127 HIGH BAR HARBOR CHANNEL CENTERLINE COORDINATES		
STATION	NORTHING	EASTING
0+00.0	342,900.8	596,493.8
7+43.1	342,364.5	597,987.8
10+21.2	342,184.3	597,776.0
16+04.6	341,636.4	597,487.1
21+66.7	341,125.5	597,261.7
27+28.9	340,588.2	597,020.5
29+02.8	340,415.9	597,055.8
31+01.7	340,219.5	597,324.4
34+04.7	339,957.4	597,372.5
37+14.3	339,689.5	597,168.6
39+92.4	339,439.8	597,194.5
47+00.7	339,067.8	597,787.3
52-84.1	338,550.2	598,066.3
55-82.1	338,274.0	597,954.3
58-72.1	338,222.9	597,688.9
60-48.3	338,137.8	597,514.7
67+24.5	337,623.7	597,075.3
76+00.0	336,780.0	596,841.9

127 HIGH BAR HARBOR CHANNEL		
COORDINATES		
POINT	NORTHING	EASTING
K1	342,847.2	598,504.8
K2	342,328.4	598,024.2
K3	342,152.4	597,918.5
K4	341,618.5	597,534.2
K5	341,126.7	597,433.5
K6	340,600.3	597,589.0
K7	345,473.5	597,608.6
K8	345,502.4	597,572.4
K9	339,320.8	597,524.2
K10	339,875.0	597,224.2
K11	339,489.4	597,241.7
K12	339,103.1	597,255.3
K13	338,552.8	598,121.3
K14	338,229.6	597,990.3
K15	338,175.2	597,688.5
K16	338,096.5	597,548.5
K17	337,599.7	597,120.5
K18	338,766.6	596,890.1
K19	338,793.3	596,793.7
K20	337,647.8	597,030.1
K21	338,177.2	597,482.5
K22	338,270.7	597,652.0
K23	338,184.4	597,918.4
K24	338,547.6	598,011.3
K25	339,032.5	597,759.3
K26	339,410.1	597,147.2
K27	337,339.0	597,163.8
K28	339,985.2	597,524.2
K29	340,238.5	597,676.5
K30	340,414.8	597,554.9
K31	340,576.1	597,471.9
K32	341,124.3	597,309.9
K33	341,654.3	597,440.2
K34	342,216.1	597,736.3
K35	342,400.7	597,953.2
K36	342,883.7	598,402.2
K37	342,862.3	598,649.8

127 HIGH BAY HARBOR CHANNEL CHANNEL DRAINAGE COORDINATES			
BORING	NORTHING	EASTING	
127-01	598.043	342.454	
127-02	597.897	342.339	
127-03	597.493	340.312	
127-04	597.513	340.128	
127-05	597.268	339.859	
127-06	597.348	339.837	
127-07	597.155	339.447	
127-08	597.422	339.393	
127-09	597.831	339.076	
127-10	599.954	338.862	
127-11	597.854	338.239	
127-12	597.342	337.963	
127-13	597.319	337.963	
127-14	597.355	340.012	
129-91	597.123	338.893	
129-92	597.226	338.583	
129-93	597.326	338.390	
129-94	597.612	339.062	
129-95	590.970	338.767	
129-96	597.586	338.127	

STATION	NORTHING	EASTING
0+00.0	338,198.6	601,288.4
2+51.6	338,011.9	601,457.1
3+46.8	337,917.2	601,466.9
4+24.4	337,843.4	601,489.8
5+23.4	337,779.3	601,566.4
8+16.6	337,496.1	601,480.6
8+81.8	337,431.7	601,479.3
10+57.2	337,284.5	601,383.9
15+63.9	338,809.4	601,206.1
17+24.4	336,711.6	601,080.7
20+62.8	336,545.7	600,763.1
23+46.4	336,563.8	600,500.0
27+01.8	336,692.5	600,168.8

129 BARNEAT LIGHT STAKE CHANNEL COORDINATES		
POINT	NORTHING	EASTING
M1	338.1615	001.3893
M2	338.0331	001.0503
M3	337.9273	001.6151
M4	337.8578	001.9114
M5	337.7882	001.9836
M6	337.4909	001.5141
M7	337.4024	001.4884
M8	337.2755	001.4919
M9	337.2357	001.3825
M10	336.7939	001.2280
M11	336.6904	001.0842
M12	336.6323	001.0369
M13	336.4948	000.7737
M14	336.5144	000.4880
M15	336.6130	000.2363
M16	336.7291	002.2125
M17	336.6131	003.5111
M18	336.5965	002.7524
M19	336.7209	000.9960
M20	336.7327	001.0872
M21	336.8284	001.1871
M22	337.2630	001.3659
M23	337.2935	001.3468
M24	337.4391	001.4602
M25	337.5014	001.4652
M26	337.7705	001.5337
M27	337.8289	001.4682
M28	337.9071	001.4166
M29	337.9907	001.4088
M30	338.0973	001.3126
M31	338.0960	001.3337

129 BARNEGAT LIGHT STAKE CHANNEL SAMPLE LOCATION COORDINATES		
BORING	NORTHING	EASTING
129-01	601,435.6	337,872.7
129-02	601,500.1	337,530.3
129-03	601,207.2	336,836.4
129-90	601,571.9	337,745.2
129-91	601,406.7	337,334.4
129-92	601,342.2	337,110.3
129-93	601,076.8	336,680.2

130 LOVELADES VOLSEGE CHANNEL CENTERLINE COORDINATES		
STATION	NORTHING	EASTING
0+00.0	330.623.0	951.146.2
9+18.4	330.501.5	952.006.6
18+38.4	330.752.4	952.506.0
24+23.8	330.725.1	953.525.8
30+66.8	330.906.7	954.271.0
34+34.8	330.893.6	954.466.7
38+66.8	330.339.0	954.846.7
43+44.3	329.242.6	955.531.7
66+092.2	328.555.3	956.692.2
75+09.0	328.295.7	957.473.1
76+52.9	328.286.5	957.804.3
80+00.0	328.546.5	957.743.6
82+21.0	328.523.3	957.688.9
88+79.8	328.977.2	957.519.0
95+02.9	329.041.3	957.816.5
98+32.0	329.119.2	957.806.7
99+57.5	329.355.1	957.880.6
100+04.8	329.628.3	958.055.3
102+56.3	329.721.0	958.124.1
104+41.6	329.662.4	958.236.5
105+33.8	328.871.1	958.328.7
106+00.0	328.800.5	958.479.7

130 LOVELADES VOLSE JUDGE CHANNEL COORDINATES		
POINT	NORTHING	EASTING
N1	330.665	591.206
N2	330.552	592.052
N3	330.802	592.920
N4	330.775	593.521
N5	330.967	594.268
N6	330.941	594.473
N7	330.382	594.881
N8	328.279	595.567
N9	328.600	596.718
N10	328.331	597.478
N11	328.347	597.573
N12	328.561	597.691
N13	328.929	597.637
N14	329.013	597.669
N15	329.080	597.783
N16	328.165	597.857
N17	329.369	597.934
N18	329.544	598.016
N19	329.462	598.078
N20	329.917	598.211
N21	329.924	598.339
N22	329.848	598.468
N23	329.752	598.487
N24	329.820	598.318
N25	329.918	598.261
N26	329.697	598.163
N27	329.512	598.127
N28	329.335	598.021
N29	329.113	597.943
N30	329.028	597.849
N31	328.943	597.750
N32	328.917	597.740
N33	328.637	597.795
N34	328.474	597.635
N35	328.229	597.467
N36	328.509	596.671
N37	329.205	595.465
N38	330.330	594.855
N39	330.854	594.420
N40	330.848	594.273
N41	330.674	593.530
N42	330.720	592.932
N43	330.450	592.062
N44	330.563	591.185

128 BARNEGAT LIGHT BUOY CHANNEL CENTERLINE COORDINATES		
STATION	NORTHING	EASTING
0+00.0	338,198.6	601,288.4
5+14.2	337,804.0	600,998.8
11+83.9	337,501.6	600,361.2
16+87.5	337,049.0	600,140.2
19+47.0	336,789.7	600,149.7
29+00.4	335,854.2	600,333.3
32+85.5	335,470.3	600,363.7
38+65.0	334,901.2	600,473.0
43+00.0	334,466.4	600,461.5

128 BARNEGAT LIGHT BUOY CHANNEL COORDINATES		
POINT	NORTHING	EASTING
L1	338,099.4	600,270.6
L2	337,764.0	600,990.5
L3	337,464.6	600,398.8
L4	337,038.4	600,190.6
L5	336,790.5	600,199.5
L6	335,861.1	600,382.9
L7	335,477.0	600,413.3
L8	334,995.3	600,523.2
L9	334,465.0	600,511.5
L10	334,467.7	600,411.5
L11	334,697.1	600,422.9
L12	335,463.6	600,314.0
L13	335,647.4	600,283.7
L14	336,784.0	600,099.9
L15	337,059.7	600,089.8
L16	337,538.6	600,323.6
L17	337,844.0	600,927.0
L18	338,105.8	601,145.7



BY	APPR	STATE OF NEW JERSEY NJDOT OFFICE OF MARITIME RESOURCES	
DESCRIPTION	TITLE: WARETOWN CHANNEL COMPLEX CHANNEL GEOMETRY & SAMPLING COORDINATE TABLES		
DATE	PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE WARETOWN CHANNEL COMPLEX, CHANNEL NOS. 117-135; BOROUGH OF BARNEGAT LIGHT AND HARVEY CEDARS, TOWNSHIPS OF BARNEGAT, LONG BEACH, AND OCEAN, OCEAN COUNTY, NEW JERSEY		
REV	DRAWN BY: JAM	WSP USA INC.	PROJECT NO.
	CHECKED BY: SEF	CERTIFICATION OF AUTHORIZATION 20424280280800	SHEET 26 OF 74
	SCALE: AS SHOWN	MICHAEL J. MARANO	
	DATE: SEPT 2024	NEW JERSEY PROFESSIONAL ENGINEER 20424280280800 20424280280800	DWG. NO. PERMIT - 25

131 LOVELADES NORTH SPUR CHANNEL COORDINATES		
POINT	NORTHING	EASTING
	323.789.4	954.889.1
	324.066.5	954.690.2
	325.031.8	954.457.0
	324.258.6	954.326.9
	325.446.4	954.345.5
	325.559.1	954.755.1
	327.470.2	954.689.9
	326.591.1	955.234.5
	329.061.8	955.254.1
	326.587.0	955.555.9
	325.498.2	955.261.4
	325.364.7	954.999.4
	325.427.3	954.752.7
	325.362.9	954.436.4
	326.006.6	954.521.5
	326.300.5	954.459.7
	324.109.0	954.782.9
	328.822.4	954.988.4
	329.778.8	954.996.0
	326.756.7	954.907.0

132 LOVEADIES CHANNEL CENTERLINE COORDINATES		
STATION	NORTHING	EASTING
0+00.0	323,377.7	592,995.6
6+87.1	323,477.9	593,675.4
18+52.8	323,707.4	594,818.3
19+53.8	323,744.7	594,912.0
20+55.1	323,724.8	595,011.4
25+05.1	323,367.6	595,285.6
29+42.2	323,204.2	595,690.8
30+85.2	323,210.4	595,833.7
35+00.0	323,532.1	596,095.5

132 LOVELADES CHANNEL COORDINATES		
POINT	NORTHING	EASTING
P1	323,436.1	593,049.3
P2	323,527.1	593,666.8
P3	323,755.5	594,804.0
P4	323,796.7	594,967.3
P5	323,769.9	595,039.6
P6	323,409.0	595,316.9
P7	323,254.6	595,699.5
P8	323,299.4	596,809.1
P9	323,563.7	596,056.8
P10	323,506.6	596,134.3
P11	323,161.5	595,869.3
P12	323,153.7	595,682.2
P13	323,326.5	595,254.2
P14	323,679.3	594,983.1
P15	323,692.8	594,916.7
P16	323,659.2	594,832.6
P17	323,428.6	593,684.0
P18	323,334.1	593,043.0

STATION	NORTHING	EASTING
0+00.0	320,123.2	592,794.6
14+89.6	320,068.5	594,283.2
18+48.5	320,276.4	594,575.7
20+22.3	320,312.7	594,745.7
21+88.5	320,208.0	594,674.7
24+00.0	320,009.0	594,946.4

133 HAVY CEDARS 2 CHANNEL COORDINATES		
POINT	NORTHING	EASTING
Q1	320.171.2	594.847.6
Q2	320.119.1	594.268.1
Q3	320.323.2	594.555.1
Q4	320.366.6	594.758.6
Q1	320.238.0	594.917.0
Q2	320.120.0	594.959.5
Q3	320.019.1	594.974.6
Q4	319.998.8	594.918.2
Q1	320.086.1	594.865.5
Q2	320.177.9	594.832.3
Q3	320.258.8	594.732.7
Q4	320.229.7	594.596.2
Q1	320.017.9	594.298.3
Q2	320.072.0	592.825.9
Q3	320.110.6	592.843.9

BORING	NORTHING	EASTING
133-01	592,974.3	320,131.3
133-02	593,662.5	320,070.8
133-03	594,328.4	320,146.4
133-90	593,271.2	320,108.8
133-91	594,050.4	320,067.2

134 HARVEY CEDARS 1 CHANNEL CENTERLINE COORDINATES		
STATION	NORTHING	EASTING
0+00.0	319,080.4	592,307.3
6+06.6	318,775.0	592,831.5
9+25.2	318,701.3	593,141.4
11+73.0	318,615.3	593,373.8
17+30.5	318,379.5	593,879.0
21+14.4	318,465.2	594,253.2
25+40.0	318,327.4	594,655.9

134 HARVEY CEDARS 1 CHANNEL COORDINATES		
POINT	NORTHING	EASTING
R1	319,100.6	592,371.9
R2	318,821.9	592,890.2
R3	318,749.2	593,155.9
R4	318,661.5	593,393.1
R5	318,432.1	593,884.5
R6	318,517.1	594,265.9
R7	318,374.8	594,672.1
R8	318,280.1	594,639.7
R9	318,413.3	594,250.5
R10	318,327.0	593,873.4
R11	318,569.1	593,354.5
R12	318,653.4	593,126.9
R13	318,728.1	592,812.7
R14	319,009.7	592,329.4

135 HARVEY CEDARS CHANNEL CENTERLINE COORDINATES		
STATION	NORTHING	EASTING
0+00.0	313.344.6	598.665.7
7+68.7	312.940.4	590.320.7
11+69.3	312.858.6	590.711.0
15+74.7	312.985.4	591.096.9
20+57.8	313.231.2	591.512.8
24+61.3	313.577.0	591.720.9
29+91.3	313.660.7	591.834.2
27+85.7	313.645.7	592.027.6
29+99.1	313.804.0	592.189.4
31+99.2	314.003.6	592.293.5
35+00.7	314.179.5	592.450.2
38+46.3	314.436.6	592.681.1
42+46.7	314.599.6	593.046.9
46+15.0	314.779.4	593.243.9
48+53.0	314.895.6	593.315.4

135 HARVEY CEDARS CHANNEL COORDINATES		
POINT	NORTHING	EASTING
51	313.363	598.730
52	312.987	590.339
53	312.910	590.709
54	313.031	591.076
55	313.267	591.476
56	313.614	591.884
57	313.699	591.818
58	313.713	592.005
59	313.828	592.142
60	314.030	592.157
61	314.216	592.416
62	314.477	592.815
63	314.641	593.019
64	314.811	593.259
65	314.921	593.278
66	314.969	593.358
67	314.747	593.262
68	314.572	593.076
69	314.395	592.712
70	314.120	592.483
71	313.076	592.253
72	313.779	592.237
73	313.618	592.048
74	313.604	591.850
75	313.539	591.756
76	313.194	591.549
77	312.939	591.117
78	312.806	590.718
79	312.893	590.301
80	313.272	589.686

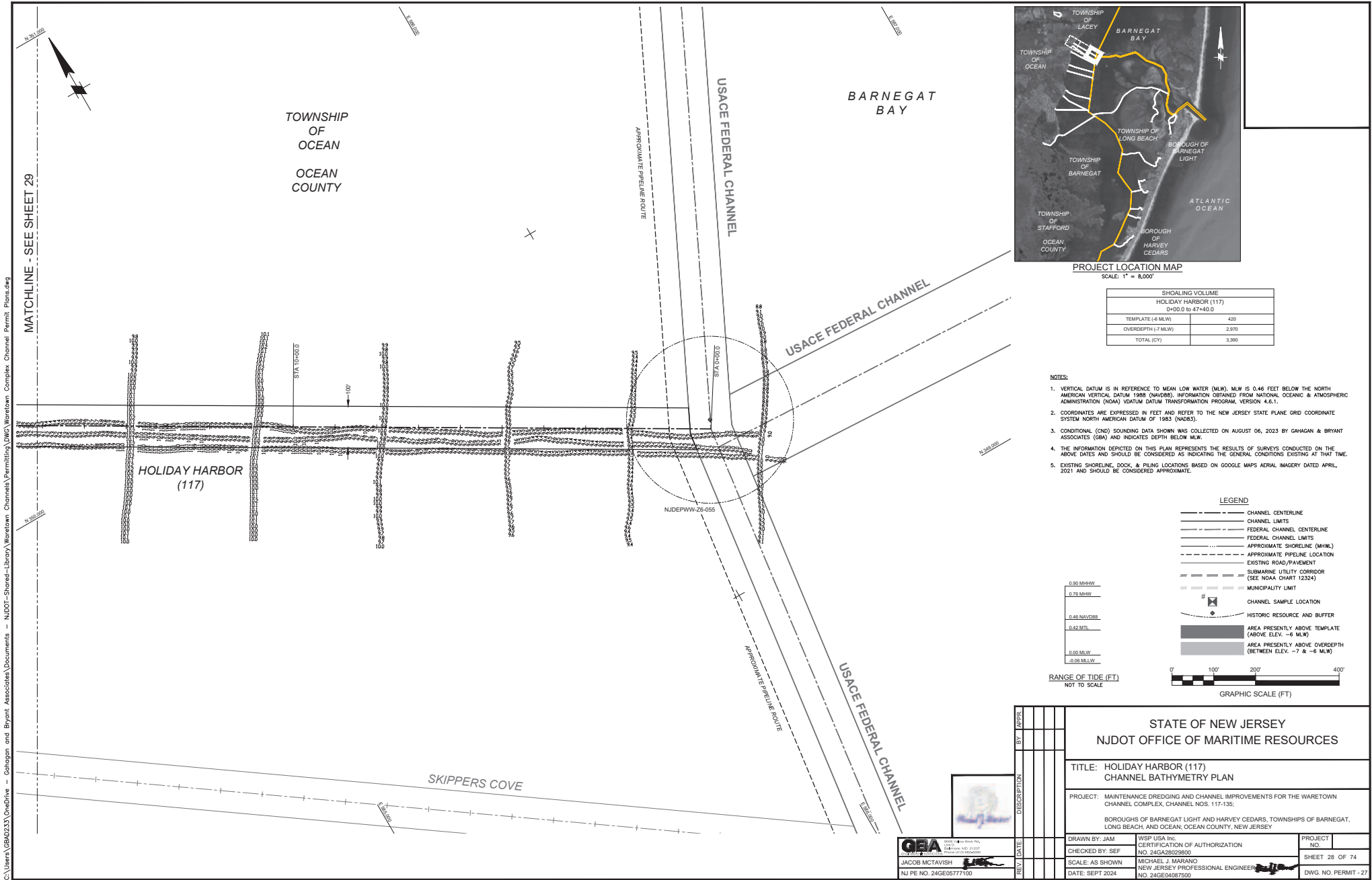
135 HARVEY CEDARS CHANNEL SAMPLE LOCATION COORDINATES		
BORING	NORTHING	EASTING
135-01	591,585.7	313,356.0
135-02	591,649.5	313,413.2

WARETOWN CHANNEL CELL HISTORIC RESOURCE COORDINATES			
POINT	NORTHING	EASTING	BUFFER RADII
NDEPW-25-054	349,197.0	582,826.9	250'
NDEPW-25-055	349,399.4	588,150.2	200'
NDEPW-25-056	342,934.3	593,362.6	200'
NDEPW-25-057	343,763.7	594,158.7	150'
NDEPW-25-058	343,402.8	600,545.8	150'
NDEPW-25-059	343,402.8	597,294.4	200'
NDEPW-25-060	341,294.6	597,294.3	250'
NDEPW-25-063	338,689.9	597,963.0	150'
NDEPW-25-064	341,740.3	597,410.5	150'
NDEPW-25-067	343,129.4	593,408.1	150'
NDEPW-27-001	334,940.2	600,121.1	150'
NDEPW-27-002	335,859.0	600,454.6	150'
NDEPW-27-003	338,443.8	601,593.2	150'
NDEPW-27-019	325,343.3	594,534.3	150'
NDEPW-27-020	323,559.3	594,625.9	150'
NDEPW-27-021	314,514.9	592,808.4	150'

[illegible]

SHEET 27 OF 74

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PROJECT LOCATION MAP

SCALE: 1" = 8,000'

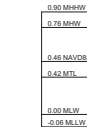
SHOALING VOLUME	
HOLIDAY HARBOR (117)	
0+00.0 to 47+40.0	
TEMPLATE (6 MLW)	420
OVERDEPTH (7 MLW)	2,970
TOTAL (CY)	3,390

NOTES

1. VERTICAL DATUM IS IN REFERENCE TO MEAN LOW WATER (MLW). MLW IS 0.48 FEET BELOW THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88). INFORMATION OBTAINED FROM NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION (NOAA) DATUM TRANSFORMATION PROGRAM, VERSION 4.6.1.
2. COORDINATES ARE EXPRESSED IN FEET AND REFER TO THE NEW JERSEY STATE PLANE GRID COORDINATE SYSTEM NORTH AMERICAN DATUM OF 1983 (NAD83).
3. CONDITIONAL (CND) SOUNDING DATA SHOWN WAS COLLECTED ON AUGUST 06, 2023 BY OHANAGAN & BRYANT ASSOCIATES (O&B) AND INDICATES DEPTH BELOW MLW.
4. THE INFORMATION DEPICTED ON THIS PLAN REPRESENTS THE RESULTS OF SURVEYS CONDUCTED ON THE ABOVE DATES AND SHOULD BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.
5. EXISTING SHORELINE, DOCK, & PILING LOCATIONS BASED ON GOOGLE MAPS AERIAL IMAGERY DATED APRIL, 2021 AND SHOULD BE CONSIDERED APPROXIMATE.

LEGEND

- CHANNEL CENTERLINE
- CHANNEL LIMITS
- FEDERAL CHANNEL CENTERLINE
- FEDERAL CHANNEL LIMITS
- APPROXIMATE SHORELINE (MHWL)
- APPROXIMATE PIPELINE LOCATION
- EXISTING ROAD/PAVEMENT
- SUBMARINE UTILITY CORRIDOR (SEE NOAA CHART 12324)
- MUNICIPALITY LIMIT
- CHANNEL SAMPLE LOCATION
- HISTORIC RESOURCE AND BUFFER
- AREA PRESENTLY ABOVE TEMPLATE (ABOVE ELEV. -6 MLW)
- AREA PRESENTLY ABOVE OVERDEPTH (BETWEEN ELEV. -7 & -6 MLW)

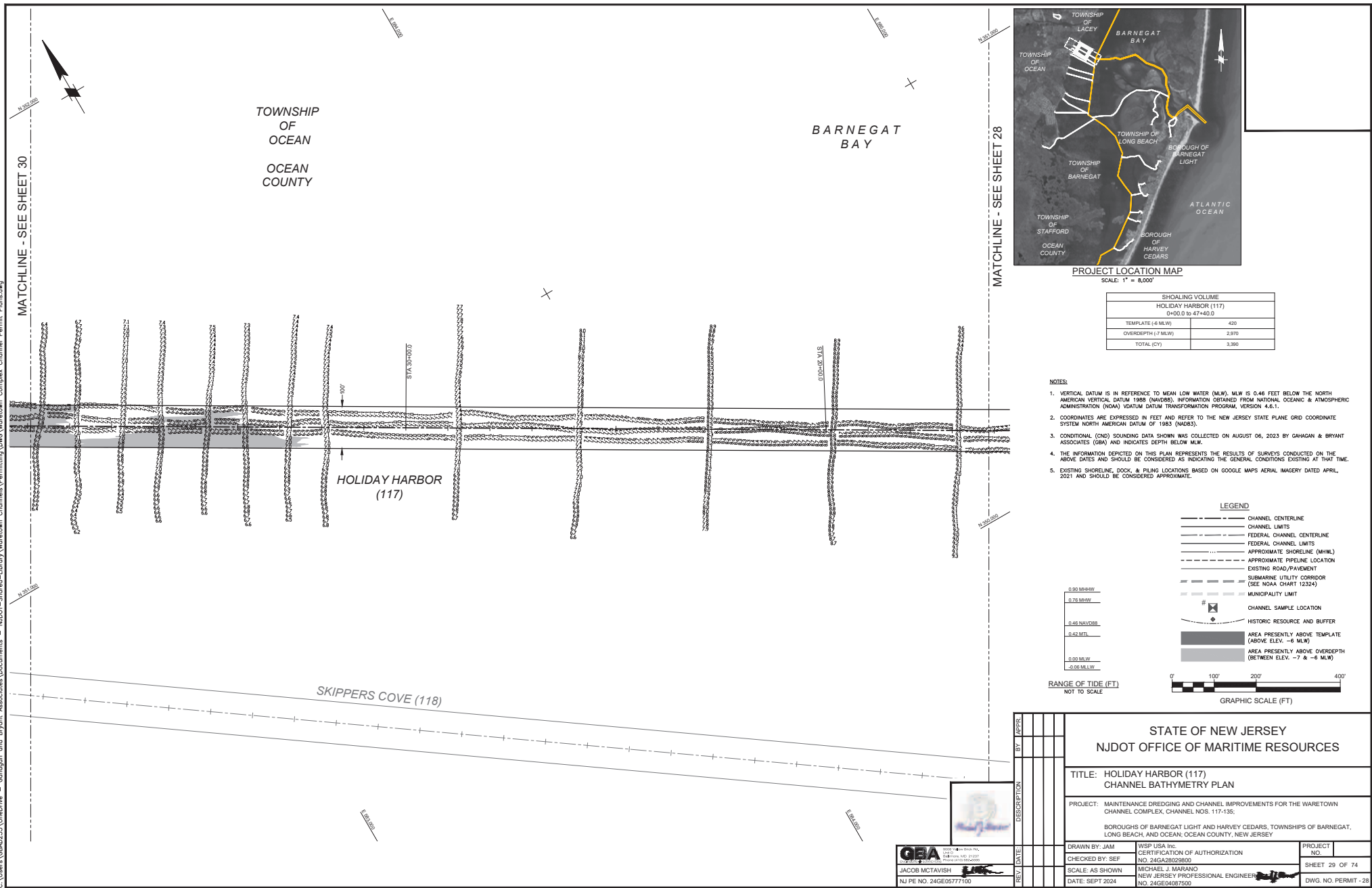


BY		APPR	
DESCRIPTION		DATE	
REV		DATE	
STATE OF NEW JERSEY NJDOT OFFICE OF MARITIME RESOURCES			
TITLE: HOLIDAY HARBOR (117) CHANNEL BATHYMETRY PLAN			
PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE WARETOWN CHANNEL COMPLEX, CHANNEL NOS. 117-135.			
BOROUGH OF BARNEGAT LIGHT AND HARVEY CEDARS, TOWNSHIPS OF BARNEGAT, LONG BEACH, AND OCEAN, OCEAN COUNTY, NEW JERSEY			
DRAWN BY: JAM	WSP USA INC. CERTIFICATION OF AUTHORIZATION NO. 24GA28028600	PROJECT NO.	
CHECKED BY: SEF	MICHAEL J. MARANO NEW JERSEY PROFESSIONAL ENGINEER	SHEET 28 OF 74	
SCALE: AS SHOWN	DATE: SEPT 2024	DWG. NO. PERMIT - 27	

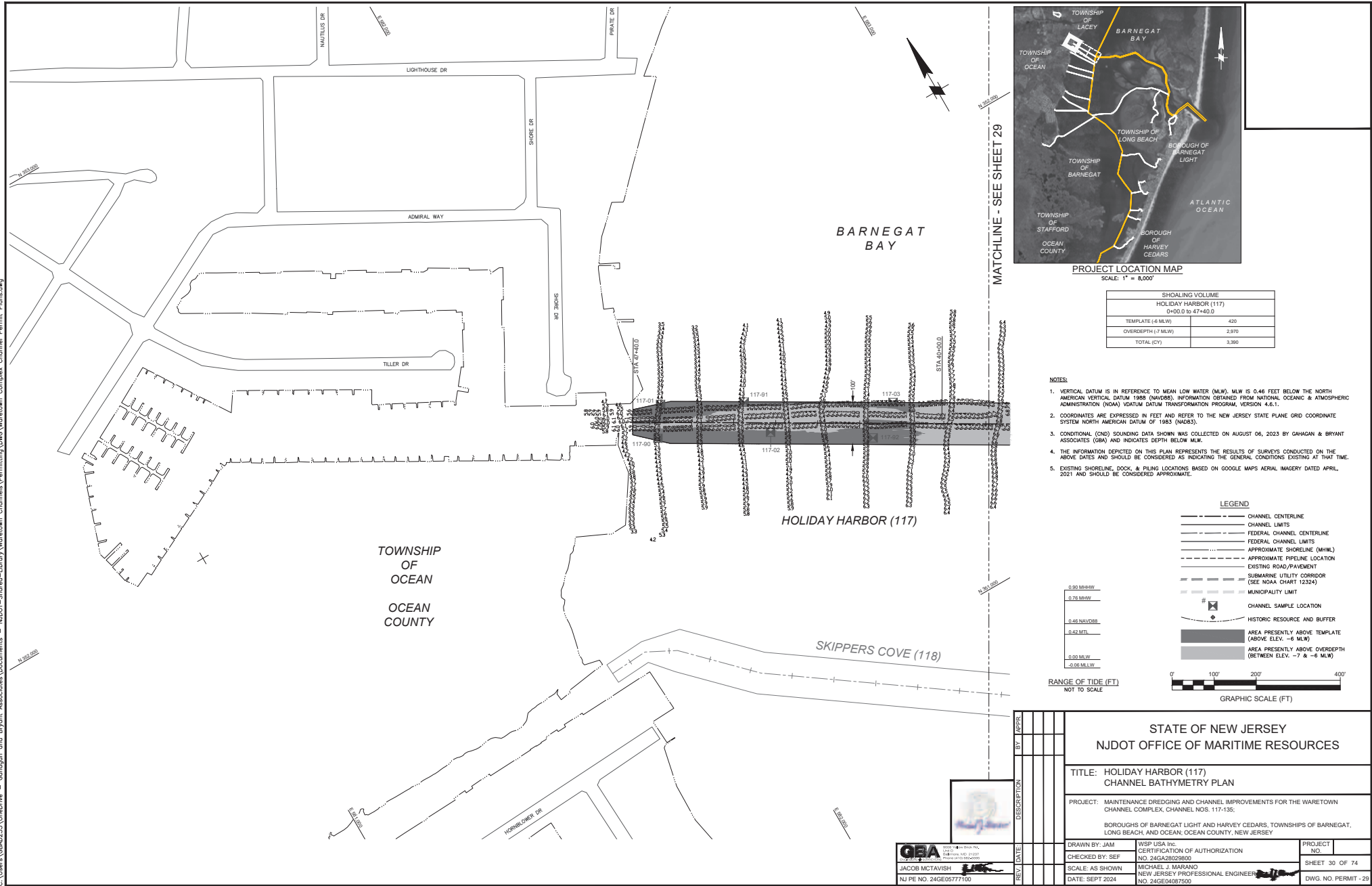


JACOB MCTAVISH
NJ PE NO. 24GE05777100

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MATCHLINE - SEE SHEET 32

HOLIDAY HARBOR (117)

NJDEPWW-26-055

APPROXIMATE PIPELINE ROUTE

TOWNSHIP OF OCEAN
OCEAN COUNTY

USACE FEDERAL CHANNEL

SKIPPERS COVE (118)

WARETOWN CREEK (119)

BARNEGAT BAY



PROJECT LOCATION MAP

SCALE: 1" = 8,000'

SHOALING VOLUME	
SKIPPERS COVE (118)	
0+00.0 to 52+50.0	
TEMPLATE (± MLW)	680
OVERDEPTH (± MLW)	3,460
TOTAL (CY)	4,140

NOTES

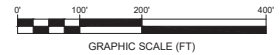
1. VERTICAL DATUM IS IN REFERENCE TO MEAN LOW WATER (MLW). MLW IS 0.48 FEET BELOW THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88). INFORMATION OBTAINED FROM NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION (NOAA) DATUM DATUM TRANSFORMATION PROGRAM, VERSION 4.6.1.1.
2. COORDINATES ARE EXPRESSED IN FEET AND REFER TO THE NEW JERSEY STATE PLANE GRID COORDINATE SYSTEM NORTH AMERICAN DATUM OF 1983 (NAD83).
3. CONDITIONAL (CND) SOUNDING DATA SHOWN WAS COLLECTED ON AUGUST 06, 2023 BY OHANAGAN & BRYANT ASSOCIATES (O&B) AND INDICATES DEPTH BELOW MLW.
4. THE INFORMATION DEPICTED ON THIS PLAN REPRESENTS THE RESULTS OF SURVEYS CONDUCTED ON THE ABOVE DATES AND SHOULD BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.
5. EXISTING SHORELINE, DOCK, & PILING LOCATIONS BASED ON GOOGLE MAPS AERIAL IMAGERY DATED APRIL, 2021 AND SHOULD BE CONSIDERED APPROXIMATE.

LEGEND

- CHANNEL CENTERLINE
- CHANNEL LIMITS
- FEDERAL CHANNEL CENTERLINE
- FEDERAL CHANNEL LIMITS
- APPROXIMATE SHORELINE (MHWL)
- APPROXIMATE PIPELINE LOCATION
- EXISTING ROAD/PAVEMENT
- SUBMARINE UTILITY CORRIDOR (SEE NOAA CHART 12324)
- MUNICIPALITY LIMIT
- CHANNEL SAMPLE LOCATION
- HISTORIC RESOURCE AND BUFFER
- AREA PRESENTLY ABOVE TEMPLATE (ABOVE ELEV. -5 MLW)
- AREA PRESENTLY ABOVE OVERDEPTH (BETWEEN ELEV. -6 & -5 MLW)



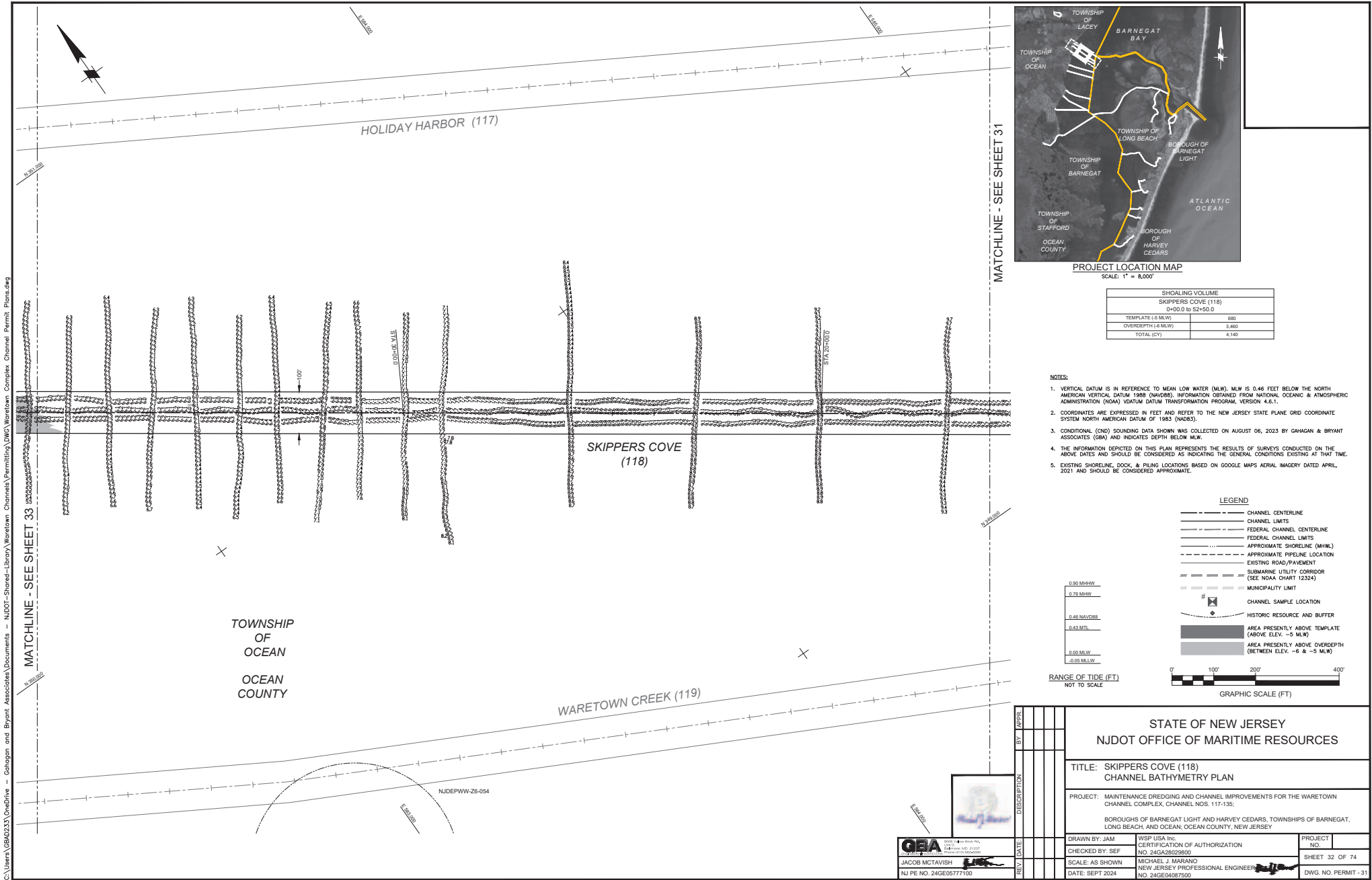
RANGE OF TIDE (FT)
NOT TO SCALE



BY		APPR	
DESCRIPTION		DATE	
REV		DATE	
STATE OF NEW JERSEY NJDOT OFFICE OF MARITIME RESOURCES			
TITLE: SKIPPERS COVE (118) CHANNEL BATHYMETRY PLAN			
PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE WARETOWN CHANNEL COMPLEX, CHANNEL NOS. 117-135.			
BOROUGH OF BARNEGAT LIGHT AND HARVEY CEDARS, TOWNSHIPS OF BARNEGAT, LONG BEACH, AND OCEAN, OCEAN COUNTY, NEW JERSEY			
DRAWN BY: JAM	WSP USA INC.	PROJECT NO.	
CHECKED BY: SEF	CERTIFICATION OF AUTHORIZATION	NO. 24GA28028600	
SCALE: AS SHOWN	MICHAEL J. MARANO	SHEET 31 OF 74	
DATE: SEPT 2024	NEW JERSEY PROFESSIONAL ENGINEER	DWG. NO. PERMIT - 30	
NO. 24GE04087500			

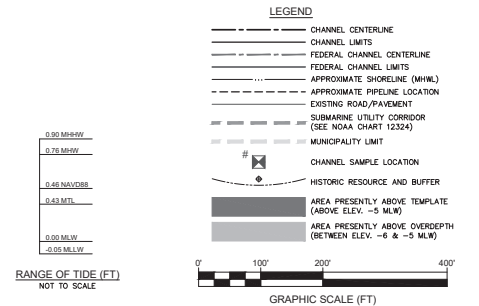
JACOB MCTAVISH
NJ PE NO. 24GE05777100

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SHOALING VOLUME	
SKIPPERS COVE (118)	
0+00.0 to 52+50.0	
TEMPLATE (+ MLW)	680
OVERDEPTH (+ MLW)	3,460
TOTAL (CY)	4,140

- NOTES:**
1. VERTICAL DATUM IS IN REFERENCE TO MEAN LOW WATER (MLW). MLW IS 0.48 FEET BELOW THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88). INFORMATION OBTAINED FROM NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION (NOAA) DATUM TRANSFORMATION PROGRAM, VERSION 4.6.1.
 2. COORDINATES ARE EXPRESSED IN FEET AND REFER TO THE NEW JERSEY STATE PLANE GRID COORDINATE SYSTEM NORTH AMERICAN DATUM OF 1983 (NAD83).
 3. CONDITIONAL (CND) SOUNDING DATA SHOWN WAS COLLECTED ON AUGUST 06, 2023 BY OHANAGAN & BRYANT ASSOCIATES (OBA) AND INDICATES DEPTH BELOW MLW.
 4. THE INFORMATION DEPICTED ON THIS PLAN REPRESENTS THE RESULTS OF SURVEYS CONDUCTED ON THE ABOVE DATES AND SHOULD BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.
 5. EXISTING SHORELINE, DOCK, & PILING LOCATIONS BASED ON GOOGLE MAPS AERIAL IMAGERY DATED APRIL, 2021 AND SHOULD BE CONSIDERED APPROXIMATE.



BY		APPROV	
DESCRIPTION		DATE	
REV		DATE	
DATE		DATE	

STATE OF NEW JERSEY
NJDOT OFFICE OF MARITIME RESOURCES

TITLE: SKIPPERS COVE (118)
CHANNEL BATHYMETRY PLAN

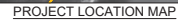
PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE WARETOWN CHANNEL COMPLEX, CHANNEL NOS. 117-135.

BOROUGH OF BARNEGAT LIGHT AND HARVEY CEDARS, TOWNSHIPS OF BARNEGAT, LONG BEACH, AND OCEAN, OCEAN COUNTY, NEW JERSEY

DRAWN BY: JAM	WSP USA INC. CERTIFICATION OF AUTHORIZATION NO. 24GA28028600	PROJECT NO.
CHECKED BY: SEF	MICHAEL J. MARANO NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE04087500	SHEET 32 OF 74
SCALE: AS SHOWN		DWG. NO. PERMIT - 31
DATE: SEPT 2024		

JACOB MCTAVISH
NJ PE NO. 24GE05777100

GBA
Geotechnical & Bathymetric Associates, Inc.
1400 Route 100, Suite 100
Barnegat, NJ 08009
(609) 271-1942



SHOALING VOLUME	
SKIPPERS COVE (118)	
0+00.0 to 52+50.0	
TEMPLATE (-5 MLW)	680
OVERDEPTH (-6 MLW)	3,460
TOTAL (CY)	4,140

1. VERTICAL DATUM IS REFERENCE TO MEAN LOW WATER (MLW). MLW IS 0.46 FEET BELOW THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88). INFORMATION OBTAINED FROM NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION (NOAA) VERTICAL DATUM TRANSFORMATION PROGRAM, VERSION 4.6.1.

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

3. CONDITIONAL (CND) SOUNDING DATA SHOWN WAS COLLECTED ON AUGUST 06, 2023 BY GAHAGAN & BRYANT ASSOCIATES (GBA) AND INDICATES DEPTH BELOW MLW.

4. THE INFORMATION DEPICTED ON THIS PLAN REPRESENTS THE RESULTS OF SURVEYS CONDUCTED ON THE DATE(S) SHOWN. THIS SURVEY SHOULD BE CONSIDERED AS STATING THE GENERAL CONDITIONS EXISTING AT A TIME.

5. EXISTING SHOULDER, DOCK, & PILING LOCATIONS BASED ON GOOGLE MAPS AERIAL IMAGERY DATED APRIL, 2021 AND SHOULD BE CONSIDERED APPROXIMATE.

 CHANNEL CENTERLINE
 CHANNEL LIMITS
 FEDERAL CHANNEL CENTERLINE
 FEDERAL CHANNEL LIMITS
 APPROXIMATE SHORELINE (MHWL)
 APPROXIMATE PIPELINE LOCATION
 EXISTING ROAD/PAVEMENT
 SUBMARINE UTILITY CORRIDOR
 (SEE NOAA CHART 12324)
 MUNICIPALITY LIMIT
 CHANNEL SAMPLE LOCATION
 HISTORIC RESOURCE AND BUFFER
 AREA PRESENTLY ABOVE TEMPLATE
 (ABOVE ELEV. -5 MLW)
 AREA PRESENTLY ABOVE OVERDEPTH
 (BETWEEN ELEV. -6 & -5 MLW)



GRAPHIC SCALE (FT)

TITLE: SKIPPERS COVE (118)
CHANNEL BATHYMETRY PLAN

PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS
CHANNEL COMPLEX, CHANNEL NOS. 117-135;

BOROUGH OF BARNEGAT LIGHT AND HARVEY CEDARS, TOWNSHIPS OF BARNEGAT,
LONG BEACH, AND OCEAN; OCEAN COUNTY, NEW JERSEY

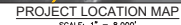
DRAWN BY: JAM	WSP USA Inc.
CHECKED BY: SEF	CERTIFICATION OF AUTHORIZATION NO. 24GA28029800

SCALE: AS SHOWN	MICHAEL J. MARANO NEW JERSEY PROFESSIONAL ENGINEER
DATE: SEPT 2024	NO. 24GE04087500

PROJECT NO.	
SHEET 33 OF 74	

SHEET 33 OF 74

DWG. NO. PERMIT - 32



NOTES:

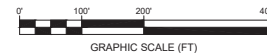
1. VERTICAL DATUM IS IN REFERENCE TO MEAN LOW WATER (MLW). MLW IS 0.47 FEET BELOW THE NORTH AMERICAN VERTICAL DATUM 1985 (NAVD85). INFORMATION OBTAINED FROM NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION (NOAA) VERTICAL DATUM TRANSFORMATION PROGRAM, VERSION 4.6.1.
2. COORDINATES ARE EXPRESSED IN FEET AND REFER TO THE NEW JERSEY STATE GRID COORDINATE SYSTEM NORTH AMERICAN DATUM OF 1983 (NAVD83).
3. CONDITIONAL (CND) SOUNDING DATA SHOWN WAS COLLECTED ON AUGUST 06-08, 2023 BY GAGHAN & BRYANT ASSOCIATES (GBA) AND INDICATES DEPTH BELOW MLW.
4. THE INFORMATION DEPICTED ON THIS PLAN REPRESENTS THE RESULTS OF SURVEYS CONDUCTED ON THE ABOVE DATES AND SHOULD BE USED IN CONJUNCTION WITH THE GENERAL CONDITIONS EXISTING AT THAT TIME.
5. EXISTING SHORELINE, DOCK & PILING LOCATIONS SHOWN ON GOOGLE MAPS AERIAL IMAGERY DATED APRIL, 2023 SHOULD BE CONSIDERED APPROXIMATE.

LEGEND

- | | |
|---|--|
|  | CHANNEL CENTERLINE |
|  | CHANNEL LIMITS |
|  | FEDERAL CHANNEL CENTERLINE |
|  | FEDERAL CHANNEL LIMITS |
|  | APPROXIMATE SHORELINE (MHWL) |
|  | APPROXIMATE PIPELINE LOCATION |
|  | EXISTING ROAD/PAVEMENT |
|  | SUBMARINE UTILITY CORRIDOR
(SEE NOAA CHART 12324) |
|  | MUNICIPALITY LIMIT |
|  | CHANNEL SAMPLE LOCATION |
|  | HISTORIC RESOURCE AND BUFFER |
|  | AREA PRESENTLY ABOVE TEMPLAT
(ABOVE ELEV. -6 M/LW) |
|  | AREA PRESENTLY ABOVE OCHERPE
(BETWEEN ELEV. -7 & -6 M/LW) |



RANGE OF TIDE (FT)
NOT TO SCALE



----- MATCHLINE - SEE SHEET 34 -----

REV.	DATE:	DESCRIPTION	BY	APPR.

STATE OF NEW JERSEY
NJDOT OFFICE OF MARITIME RESOURCES

TITLE: WARETOWN CREEK (119)
CHANNEL BATHYMETRY PLAN

PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE WARETOWN CHANNEL COMPLEX, CHANNEL NOS. 117-135;

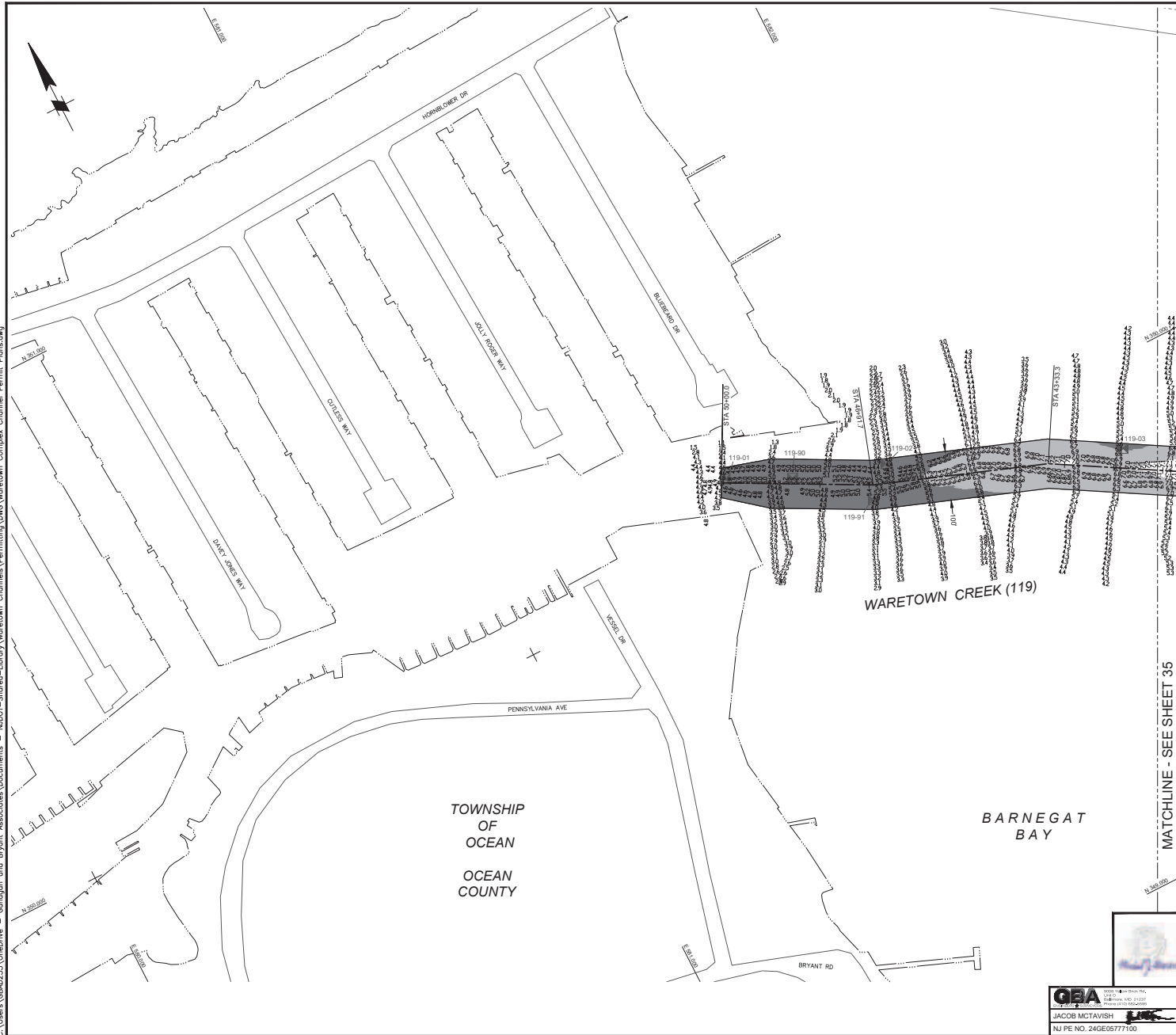
BOROUGH OF BARNEGAT LIGHT AND HARVEY CEDARS, TOWNSHIPS OF BARNEGAT
LONG BEACH, AND OCEAN; OCEAN COUNTY, NEW JERSEY

DRAWN BY: JAM	WSP USA Inc.
CHECKED BY: SEF	CERTIFICATION OF AUTHORIZATION NO. 24GA28029800

SCALE: AS SHOWN	MICHAEL J. MARANO NEW JERSEY PROFESSIONAL ENGINEER	SHEET 35 OF 74
DATE: SEPT 2024	NO. 24GE04087500	DWG. NO. PERMIT



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PROJECT LOCATION MAP

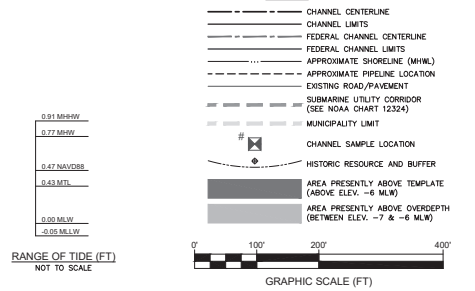
SCALE: 1" = 8,000'

SHOALING VOLUME	
WARETOWN CREEK (119)	
0+00.0 to 50+00.0	
TEMPLATE (6 MLW)	2,050
OVERDEPTH (7 MLW)	2,840
TOTAL (CY)	4,890

NOTES:

1. VERTICAL DATUM IS IN REFERENCE TO MEAN LOW WATER (MLW). MLW IS 0.47 FEET BELOW THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88). INFORMATION OBTAINED FROM NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION (NOAA) DATUM TRANSFORMATION PROGRAM, VERSION 4.6.1.
2. COORDINATES ARE EXPRESSED IN FEET AND REFER TO THE NEW JERSEY STATE PLANE GRID COORDINATE SYSTEM NORTH AMERICAN DATUM OF 1983 (NAD83).
3. CONDITIONAL (CND) SOUNDING DATA SHOWN WAS COLLECTED ON AUGUST 06-08, 2023 BY GAHAGAN & BRYANT ASSOCIATES (GBA) AND INDICATES DEPTH BELOW MLW.
4. THE INFORMATION DEPICTED ON THIS PLAN REPRESENTS THE RESULTS OF SURVEYS CONDUCTED ON THE ABOVE DATES AND SHOULD BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.
5. EXISTING SHORELINE, DOCK, & PILING LOCATIONS BASED ON GOOGLE MAPS AERIAL IMAGERY DATED APRIL, 2021 AND SHOULD BE CONSIDERED APPROXIMATE.

LEGEND



MATCHLINE - SEE SHEET 35

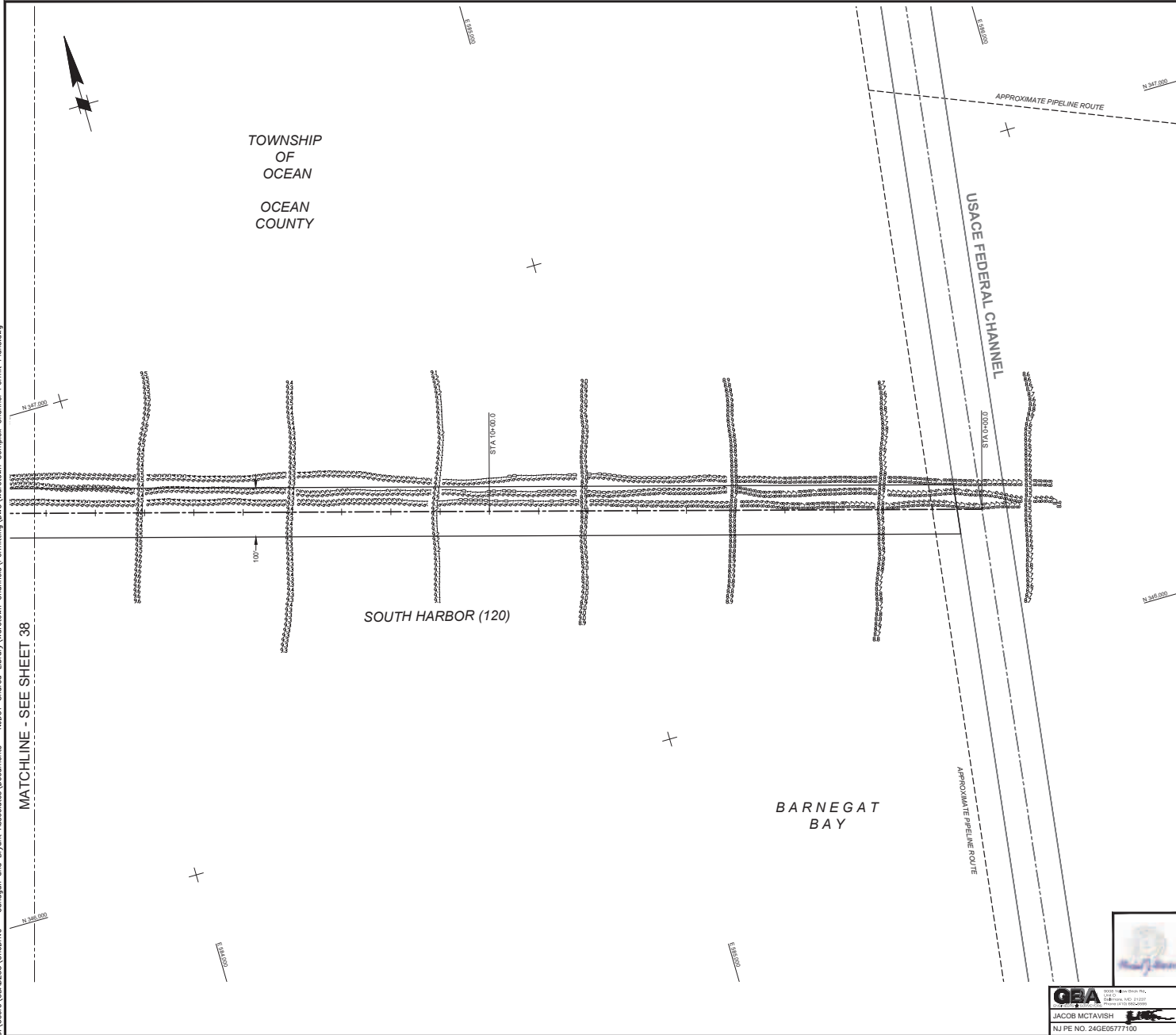
BY		APPROVED	
DESCRIPTION		DATE	
REV		DATE	
STATE OF NEW JERSEY NJDOT OFFICE OF MARITIME RESOURCES			
TITLE: WARETOWN CREEK (119) CHANNEL BATHYMETRY PLAN			
PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE WARETOWN CHANNEL COMPLEX, CHANNEL NOS. 117-135.			
BOROUGH OF BARNEGAT LIGHT AND HARVEY CEDARS, TOWNSHIPS OF BARNEGAT, LONG BEACH, AND OCEAN, OCEAN COUNTY, NEW JERSEY			
DRAWN BY: JAM		WSP USA INC. CERTIFICATION OF AUTHORIZATION NO. 24GA28028600	
CHECKED BY: SEF		MICHAEL J. MARANO NEW JERSEY PROFESSIONAL ENGINEER	
SCALE: AS SHOWN		DATE: SEPT 2024	
NO. 24GE04087500		DWG. NO. PERMIT - 35	



JACOB MCTAVISH
NJ PE NO. 24GE05777100

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MATCHLINE - SEE SHEET 38



PROJECT LOCATION MAP

SCALE: 1" = 8,000'

SHOALING VOLUME	
SOUTH HARBOR (120)	
0+00.0 to 48+15.0	
TEMPLATE (+6 MLW)	380
OVERDEPTH (+7 MLW)	2,280
TOTAL (CY)	2,660

NOTES

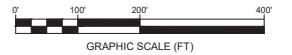
1. VERTICAL DATUM IS IN REFERENCE TO MEAN LOW WATER (MLW). MLW IS 0.47 FEET BELOW THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88). INFORMATION OBTAINED FROM NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION (NOAA) DATUM TRANSFORMATION PROGRAM, VERSION 4.6.1.
2. COORDINATES ARE EXPRESSED IN FEET AND REFER TO THE NEW JERSEY STATE PLANE GRID COORDINATE SYSTEM NORTH AMERICAN DATUM OF 1983 (NAD83).
3. CONDITIONAL (CND) SOUNDING DATA SHOWN WAS COLLECTED ON AUGUST 08, 2023 BY OHAGHAN & BRYANT ASSOCIATES (O&B) AND INDICATES DEPTH BELOW MLW.
4. THE INFORMATION DEPICTED ON THIS PLAN REPRESENTS THE RESULTS OF SURVEYS CONDUCTED ON THE ABOVE DATES AND SHOULD BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.
5. EXISTING SHORELINE, DOCK, & PILING LOCATIONS BASED ON GOOGLE MAPS AERIAL IMAGERY DATED APRIL, 2021 AND SHOULD BE CONSIDERED APPROXIMATE.

LEGEND

- CHANNEL CENTERLINE
- CHANNEL LIMITS
- FEDERAL CHANNEL CENTERLINE
- FEDERAL CHANNEL LIMITS
- APPROXIMATE SHORELINE (NAD83)
- APPROXIMATE PIPELINE LOCATION
- EXISTING ROAD/PAVEMENT
- SUBMARINE UTILITY CORRIDOR (SEE NOAA CHART 12324)
- MUNICIPALITY LIMIT
- CHANNEL SAMPLE LOCATION
- AREA PRESENTLY ABOVE TEMPLATE (ABOVE ELEV. +6 MLW)
- AREA PRESENTLY ABOVE OVERDEPTH (BETWEEN ELEV. +7 & +6 MLW)

0.92 MH+00W
0.78 MH+00W
0.47 NAVD88
0.44 MLW
0.00 MLW
-0.05 MLW

RANGE OF TIDE (FT)
NOT TO SCALE

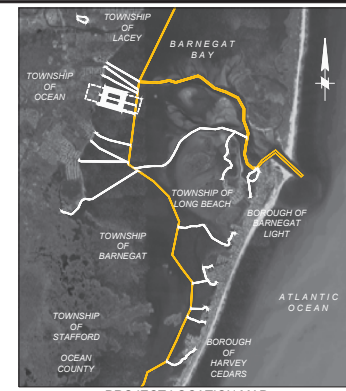
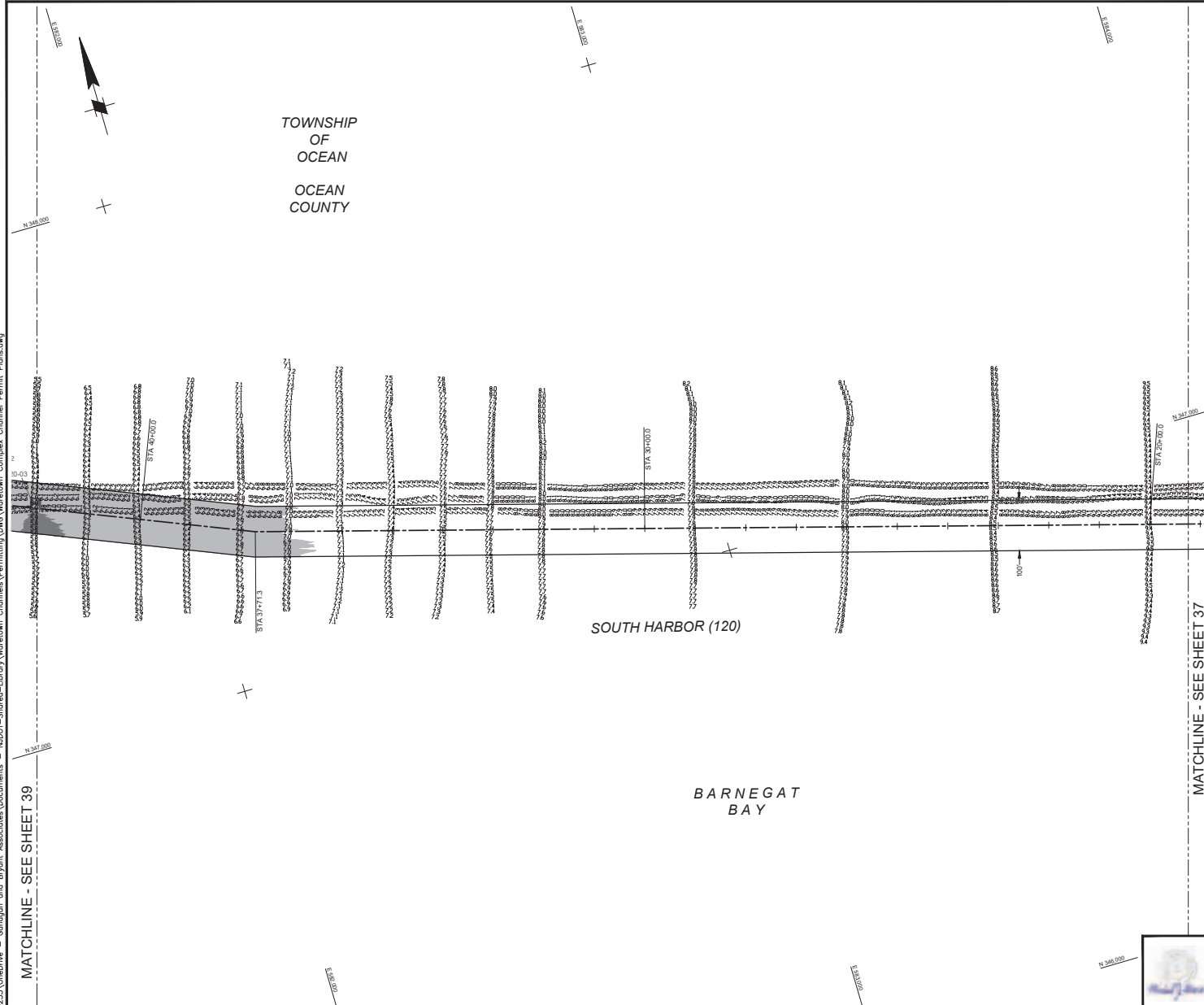


BY		APPR	
DESCRIPTION		DATE	
REV		DATE	
STATE OF NEW JERSEY NJDOT OFFICE OF MARITIME RESOURCES			
TITLE: SOUTH HARBOR (120) CHANNEL BATHYMETRY PLAN			
PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE WARETOWN CHANNEL COMPLEX, CHANNEL NOS. 117-135.			
BOROUGH OF BARNEGAT LIGHT AND HARVEY CEDARS, TOWNSHIPS OF BARNEGAT, LONG BEACH, AND OCEAN, OCEAN COUNTY, NEW JERSEY			
DRAWN BY: JAM	WSP USA, INC. CERTIFICATION OF AUTHORIZATION NO. 24GA28028600	PROJECT NO.	
CHECKED BY: SEF	MICHAEL J. MARRANO NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE04087500	SHEET 37 OF 74	
SCALE: AS SHOWN		DWG. NO. PERMIT - 36	
DATE: SEPT 2024			

G&B
Geotechnical & Bathymetric
NJ PE NO. 24GE05777100

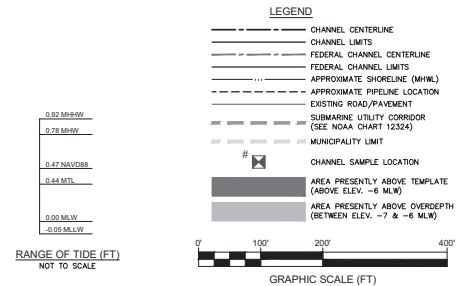
MATCHLINE - SEE SHEET 39

MATCHLINE - SEE SHEET 37



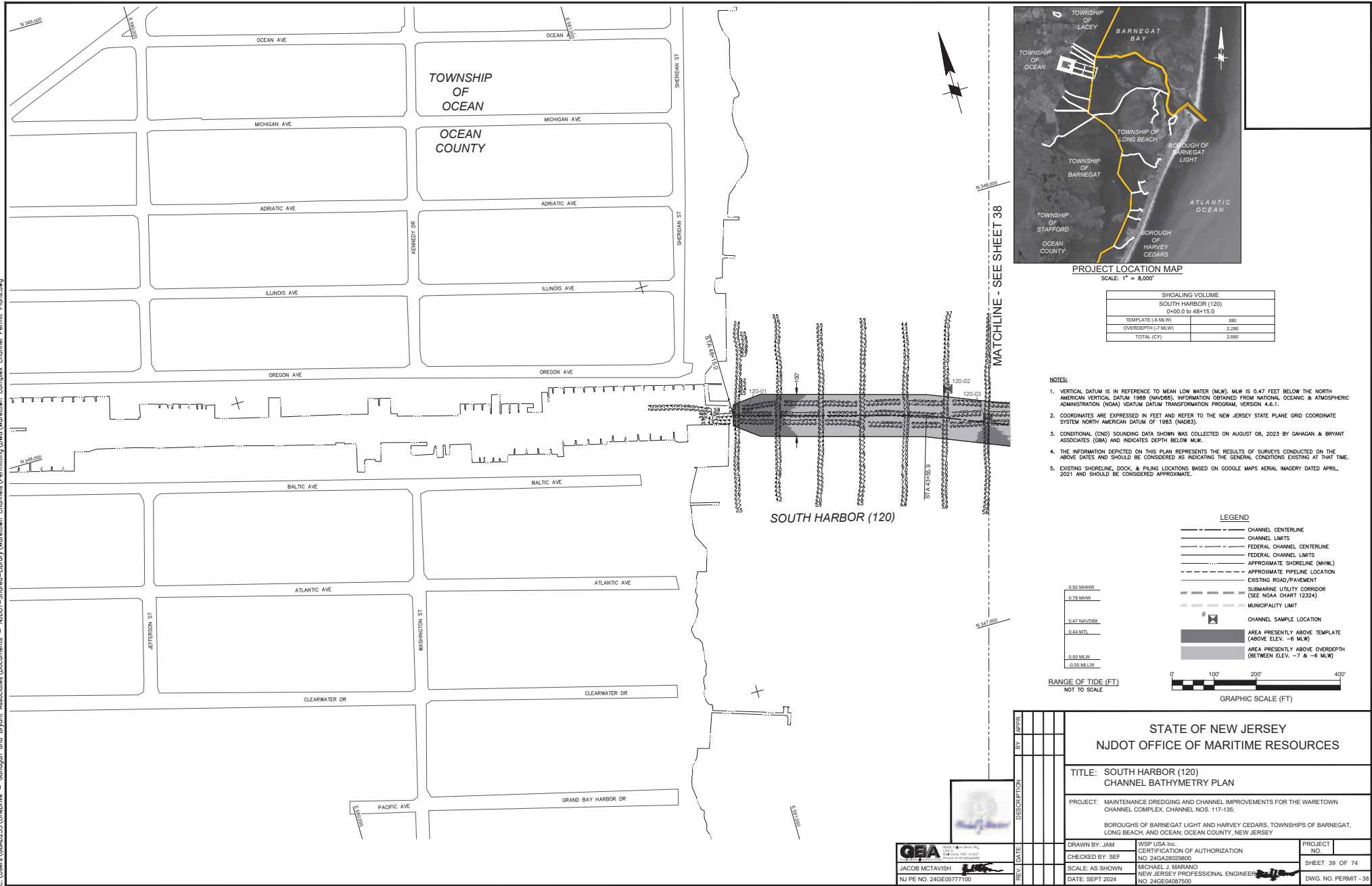
SHOALING VOLUME	
SOUTH HARBOR (120)	
0+00.0 to 48+15.0	
TEMPLATE (6 MLW)	380
OVERDEPTH (7 MLW)	2,280
TOTAL (CY)	2,660

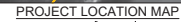
- NOTES:
1. VERTICAL DATUM IS IN REFERENCE TO MEAN LOW WATER (MLW). MLW IS 0.47 FEET BELOW THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88). INFORMATION OBTAINED FROM NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION (NOAA) DATUM DATUM TRANSFORMATION PROGRAM, VERSION 4.6.1.
 2. COORDINATES ARE EXPRESSED IN FEET AND REFER TO THE NEW JERSEY STATE PLANE GRID COORDINATE SYSTEM NORTH AMERICAN DATUM OF 1983 (NAD83).
 3. CONDITIONAL (CND) SOUNDING DATA SHOWN WAS COLLECTED ON AUGUST 08, 2023 BY GHAGHAN & BRYANT ASSOCIATES (GBA) AND INDICATES DEPTH BELOW MLW.
 4. THE INFORMATION DEPICTED ON THIS PLAN REPRESENTS THE RESULTS OF SURVEYS CONDUCTED ON THE ABOVE DATES AND SHOULD BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.
 5. EXISTING SHORELINE, DOCK, & PILING LOCATIONS BASED ON GOOGLE MAPS AERIAL IMAGERY DATED APRIL, 2021 AND SHOULD BE CONSIDERED APPROXIMATE.



GBA Gallogian and Bryant Associates 1400 Morris Avenue, Suite 200 Morris Township, NJ 07960 (908) 584-1000 www.gba-nj.com		STATE OF NEW JERSEY NJDOT OFFICE OF MARITIME RESOURCES	
TITLE: SOUTH HARBOR (120) CHANNEL BATHYMETRY PLAN		PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE WARETOWN CHANNEL COMPLEX, CHANNEL NOS. 117-135.	
PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE WARETOWN CHANNEL COMPLEX, CHANNEL NOS. 117-135.		BOROUGH OF BARNEGAT LIGHT AND HARVEY CEDARS, TOWNSHIPS OF BARNEGAT, LONG BEACH, AND OCEAN, OCEAN COUNTY, NEW JERSEY	
DRAWN BY: JAM	WSP USA INC. CERTIFICATION OF AUTHORIZATION NO. 24GA28028600	PROJECT NO.	SHEET 38 OF 74
CHECKED BY: SEF	MICHAEL J. MARANO NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE04087500	SCALE: AS SHOWN	DATE: SEPT 2024
JACOB MCTAVISH NJ PE NO. 24GE05777100		DWG. NO. PERMIT - 37	

C:\Users\GBAD233\OneDrive - NJDOT - Shared Library\Waretown Channel\Permitting\DWG\Waretown Channel Permit Plans.dwg

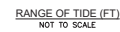




SHOALING VOLUME	
WARETOWN SOUTH CONDOS (121)	
0+00.0 to 50+10.0	
TEMPLATE (-6 MLW)	940
OVERDEPTH (-7 MLW)	4,240
TOTAL (CY)	5,180

1. VERTICAL DATUM IS IN REFERENCE TO MEAN LOW WATER (MLW). MLW IS 0.48 FEET BELOW THE NATIONAL VERTICAL DATUM 1988 (NAVDS). INFORMATION OBTAINED FROM NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION (NOAA) VDATUM DATUM TRANSFORMATION PROGRAM, VERSION 4.6.1.
2. COORDINATES ARE EXPRESSED IN FEET AND REFER TO THE NEW JERSEY STATE GRID COORDINATE SYSTEM NATIONAL AMERICAN DATUM OF 1983 (NAD83).
3. CONDITIONAL (CHG) SOUNDING DATA SHOWN WAS COLLECTED ON JULY 24-26, 2023 BY GAGHAN & BRYANT ASSOCIATES (GBA) AND INDICATES DATA BEING USED FOR THIS PROJECT.
4. THE INFORMATION DERIVED ON THIS PLAN REPRESENTS THE RESULTS OF SURVEYS CONDUCTED ON THE ABOVE DATAS AND SHOULD BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.
5. EXISTING SHOULDER, DOCK, & PILING LOCATIONS BASED ON GOOGLE MAPS AERIAL IMAGERY DATED APRIL 2021 AND SHOULD BE CONSIDERED APPROXIMATE.

=====	CHANNEL CENTERLINE
-----	CHANNEL LIMITS
-----	FEDERAL CHANNEL CENTERLINE
-----	FEDERAL CHANNEL LIMITS
.....	APPROXIMATE SHORELINE (MHWL)
-----	APPROXIMATE PIPELINE LOCATION
-----	EXISTING ROAD/PAVEMENT
=====	SUBMARINE UTILITY CORRIDOR (SEE NOAA CHART 12324)
=====	MUNICIPALITY LIMIT



GRAPHIC SCALE (FT)

TITLE: WARETOWN SOUTH CONDOS (121)
CHANNEL BATHYMETRY PLAN

PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE WARETOWN CHANNEL COMPLEX, CHANNEL NOS. 117-135;

BOROUGH OF BARNEGAT LIGHT AND HARVEY CEDARS, TOWNSHIPS OF BARNEGAT,
LONG BEACH, AND OCEAN; OCEAN COUNTY, NEW JERSEY

DRAWN BY: JAM	WSP USA Inc.
CHECKED BY: SEF	CERTIFICATION OF AUTHORIZATION NO. 24GA28029800

SCALE: AS SHOWN	MICHAEL J. MARANO NEW JERSEY PROFESSIONAL ENGINEER	SHEET 40 OF 74
DATE: SEPT 2024	NO. 24GE04087500	DWG. NO. PERMIT - 39



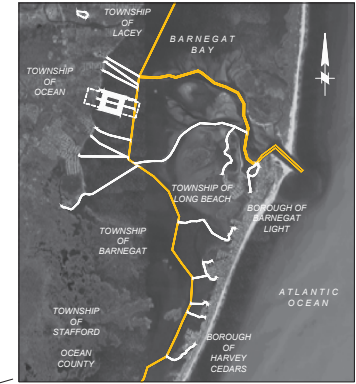
MATCHLINE - SEE SHEET 42

TOWNSHIP
OF
OCEAN

OCEAN
COUNTY

WARETOWN SOUTH
CONDOS (121)

BARNEGAT
BAY



SHOALING VOLUME	
WARETOWN SOUTH CONDOS (121)	
0+00.0 to 50+10.0	
TEMPLATE (+6 MLW)	540
OVERDEPTH (+7 MLW)	4,240
TOTAL (CY)	5,180

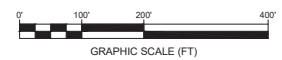
NOTES

1. VERTICAL DATUM IS IN REFERENCE TO MEAN LOW WATER (MLW). MLW IS 0.48 FEET BELOW THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88). INFORMATION OBTAINED FROM NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION (NOAA) DATUM TRANSFORMATION PROGRAM, VERSION 4.6.1.
2. COORDINATES ARE EXPRESSED IN FEET AND REFER TO THE NEW JERSEY STATE PLANE GRID COORDINATE SYSTEM NORTH AMERICAN DATUM OF 1983 (NAD83).
3. CONDITIONAL (CND) SOUNDING DATA SHOWN WAS COLLECTED ON JULY 24-26, 2023 BY GAWAGAN & BRYANT ASSOCIATES (GBA) AND INDICATES DEPTH BELOW MLW.
4. THE INFORMATION DEPICTED ON THIS PLAN REPRESENTS THE RESULTS OF SURVEYS CONDUCTED ON THE ABOVE DATES AND SHOULD BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.
5. EXISTING SHORELINE, DOCK, & PILING LOCATIONS BASED ON GOOGLE MAPS AERIAL IMAGERY DATED APRIL, 2021 AND SHOULD BE CONSIDERED APPROXIMATE.

LEGEND

- CHANNEL CENTERLINE
- CHANNEL LIMITS
- FEDERAL CHANNEL CENTERLINE
- FEDERAL CHANNEL LIMITS
- APPROXIMATE SHORELINE (MHWL)
- APPROXIMATE PIPELINE LOCATION
- EXISTING ROAD/PAVEMENT
- SUBMARINE UTILITY CORRIDOR (SEE NOAA CHART 12324)
- MUNICIPALITY LIMIT
- CHANNEL SAMPLE LOCATION
- AREA PRESENTLY ABOVE TEMPLATE (ABOVE ELEV. +6 MLW)
- AREA PRESENTLY ABOVE OVERDEPTH (BETWEEN ELEV. +7 & +6 MLW)

RANGE OF TIDE (FT)
NOT TO SCALE



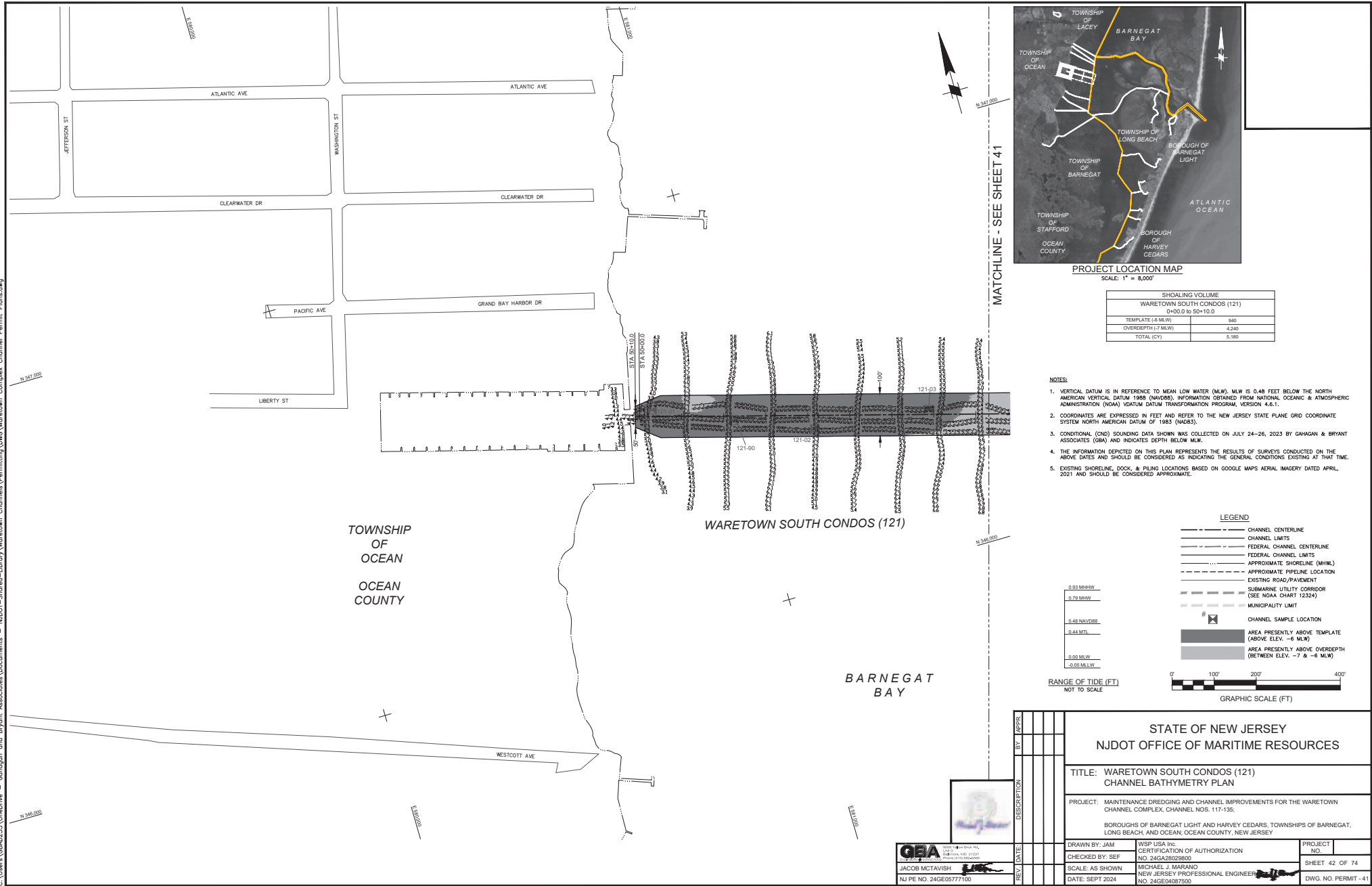
REV	DATE	DESCRIPTION	BY	APPR

GBA
GAWAGAN & BRYANT ASSOCIATES
INC.
1400 ROUTE 100, SUITE 200
JACKSON, NJ 07036
(908) 765-2000
WWW.GBA-NJ.COM

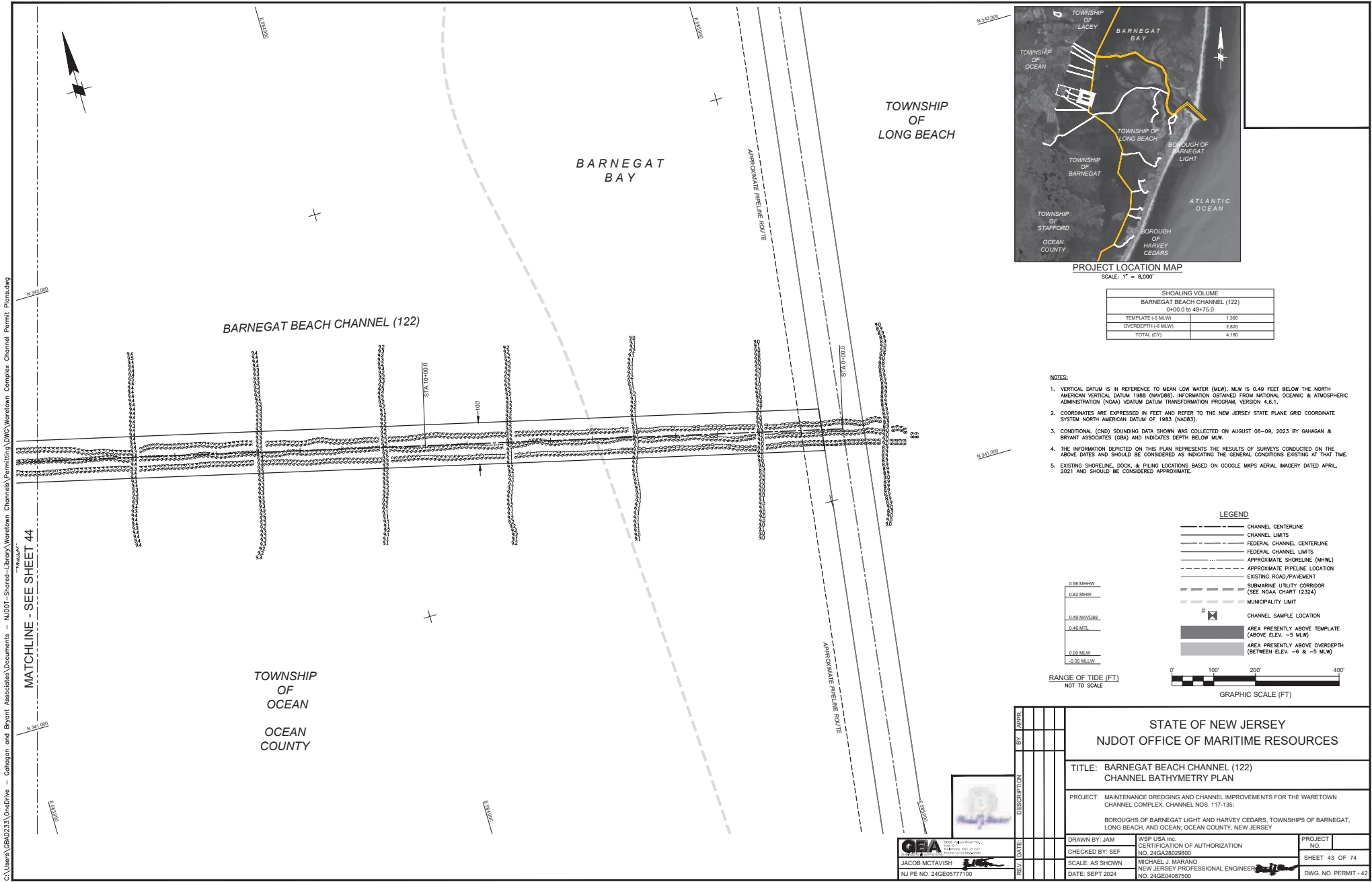
JACOB MCTAVISH
NJ PE NO. 24GE05777100

STATE OF NEW JERSEY NJDOT OFFICE OF MARITIME RESOURCES	
TITLE: WARETOWN SOUTH CONDOS (121) CHANNEL BATHYMETRY PLAN	
PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE WARETOWN CHANNEL COMPLEX, CHANNEL NOS. 117-135.	
BOROUGH OF BARNEGAT LIGHT AND HARVEY CEDARS, TOWNSHIPS OF BARNEGAT, LONG BEACH, AND OCEAN, OCEAN COUNTY, NEW JERSEY	
DRAWN BY: JAM	WSP USA INC. CERTIFICATION OF AUTHORIZATION NO. 24GA28028600
CHECKED BY: SEF	MICHAEL J. MARANO NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE04087500
SCALE: AS SHOWN	DATE: SEPT 2024
PROJECT NO.	SHEET 41 OF 74
DWG. NO. PERMIT - 40	

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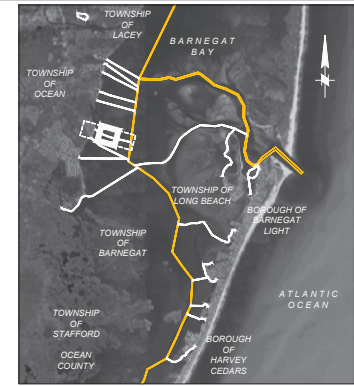
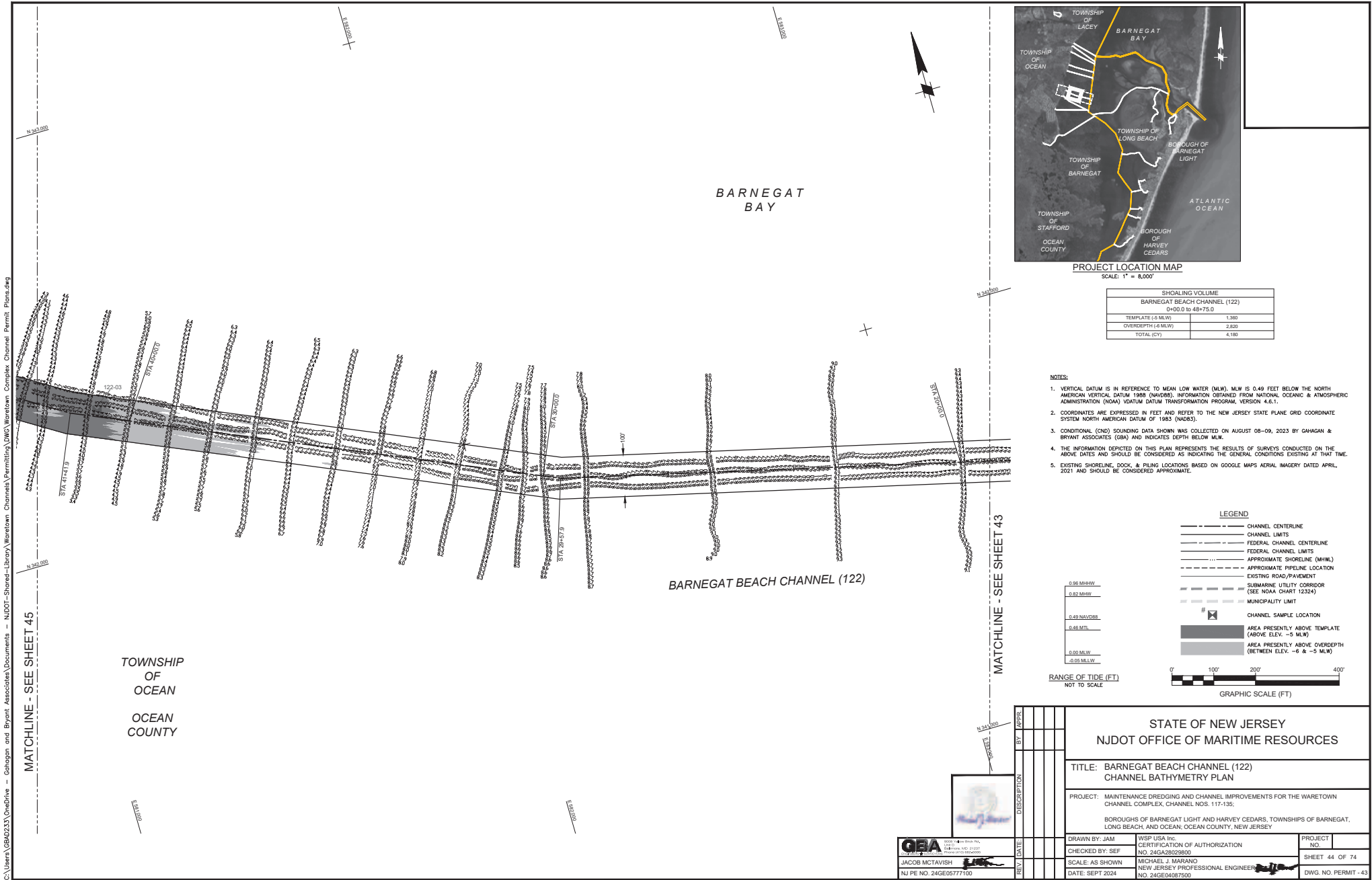
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SHOALING VOLUME	
BARNEGAT BEACH CHANNEL (122) 0+00.0 TO 48+75.0	
TEMPLATE (+5 MLW)	1,360
OVERDEPTH (+6 MLW)	2,820
TOTAL (CY)	4,180

- NOTES:**
- VERTICAL DATUM IS IN REFERENCE TO MEAN LOW WATER (MLW). MLW IS 0.40 FEET BELOW THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88). INFORMATION OBTAINED FROM NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION (NOAA) DATUM TRANSFORMATION PROGRAM, VERSION 4.6.1.
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 - CONDITIONAL (CND) SOUNDING DATA SHOWN WAS COLLECTED ON AUGUST 08-09, 2023 BY GAHAGAN & BRYANT ASSOCIATES (GBA) AND INDICATES DEPTH BELOW MLW.
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 - EXISTING SHORELINE, DOCK, & PILING LOCATIONS BASED ON GOOGLE MAPS AERIAL IMAGERY DATED APRIL, 2021 AND SHOULD BE CONSIDERED APPROXIMATE.

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PROJECT LOCATION MAP

SCALE: 1" = 8,000'

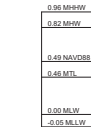
SHOALING VOLUME	
BARNEGAT BEACH CHANNEL (122)	
0+00.0 to 48+75.0	
TEMPLATE (+5 MLW)	1,360
OVERDEPTH (+6 MLW)	2,820
TOTAL (CY)	4,180

NOTES:

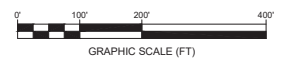
1. VERTICAL DATUM IS IN REFERENCE TO MEAN LOW WATER (MLW). MLW IS 0.40 FEET BELOW THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88). INFORMATION OBTAINED FROM NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION (NOAA) DATUM TRANSFORMATION PROGRAM, VERSION 4.6.1.
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5. EXISTING SHORELINE, DOCK, & PILING LOCATIONS BASED ON GOOGLE MAPS AERIAL IMAGERY DATED APRIL, 2021 AND SHOULD BE CONSIDERED APPROXIMATE.

LEGEND

- CHANNEL CENTERLINE
- CHANNEL LIMITS
- FEDERAL CHANNEL CENTERLINE
- FEDERAL CHANNEL LIMITS
- APPROXIMATE SHORELINE (MHWL)
- APPROXIMATE PIPELINE LOCATION
- EXISTING ROAD/PAVEMENT
- SUBMARINE UTILITY CORRIDOR (SEE NOAA CHART 12324)
- MUNICIPALITY LIMIT
- CHANNEL SAMPLE LOCATION
- AREA PRESENTLY ABOVE TEMPLATE (ABOVE ELEV. +5 MLW)
- AREA PRESENTLY ABOVE OVERDEPTH (BETWEEN ELEV. +6 & +5 MLW)



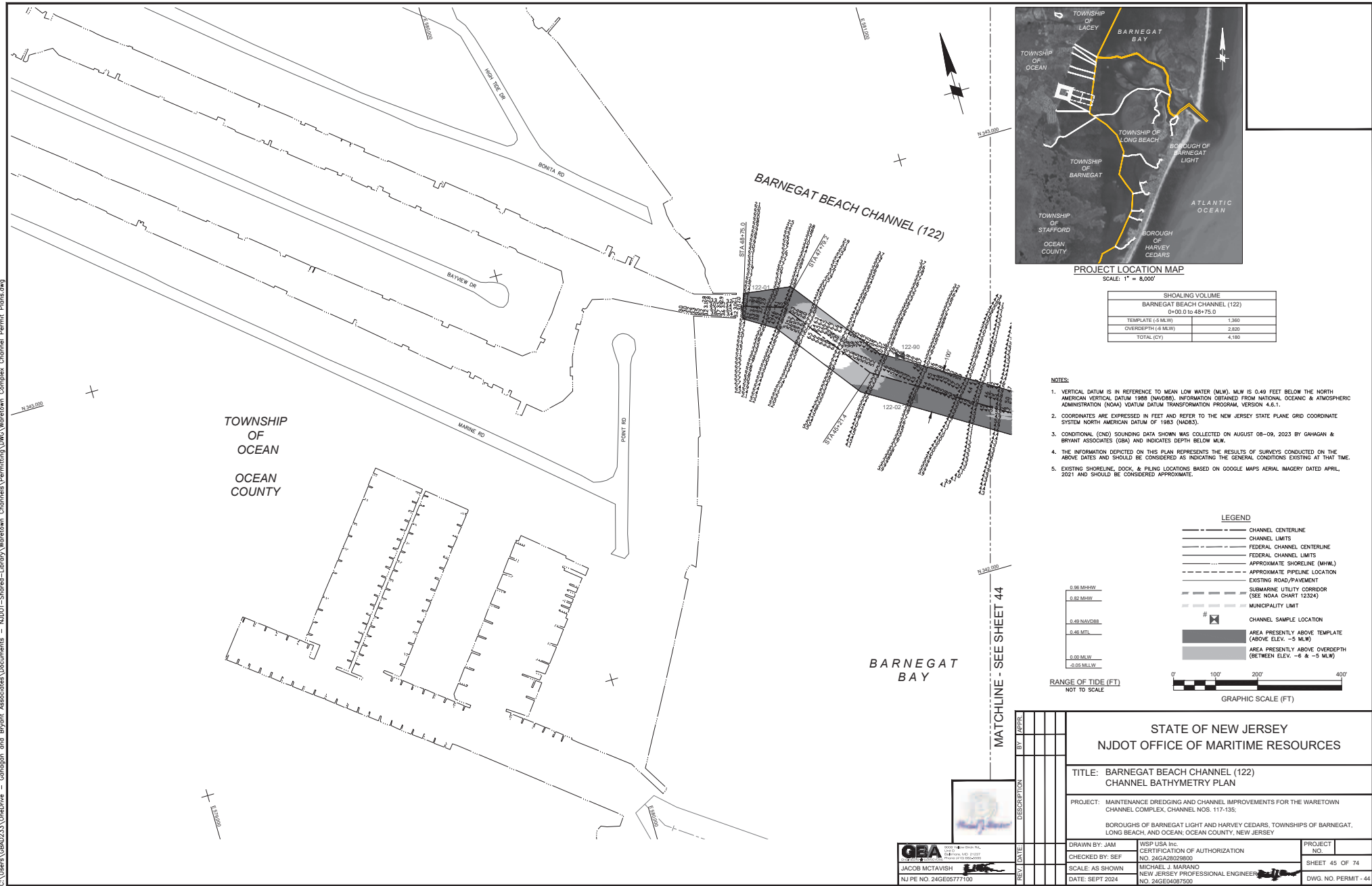
GRAPHIC SCALE (FT)



STATE OF NEW JERSEY NJDOT OFFICE OF MARITIME RESOURCES	
TITLE: BARNEGAT BEACH CHANNEL (122) CHANNEL BATHYMETRY PLAN	
PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE WARETOWN CHANNEL COMPLEX, CHANNEL NOS. 117-135;	
BOROUGH OF BARNEGAT LIGHT AND HARVEY CEDARS, TOWNSHIPS OF BARNEGAT, LONG BEACH, AND OCEAN, OCEAN COUNTY, NEW JERSEY	
DRAWN BY: JAM	WSP USA INC. CERTIFICATION OF AUTHORIZATION NO. 24GA28028600
CHECKED BY: SEF	MICHAEL J. MARANO NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE04087500
SCALE: AS SHOWN	DATE: SEPT 2024
NO. 24GE05777100	NO. 24GE04087500
PROJECT NO.	SHEET 44 OF 74
DWG. NO. PERMIT - 43	



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PROJECT LOCATION MAP

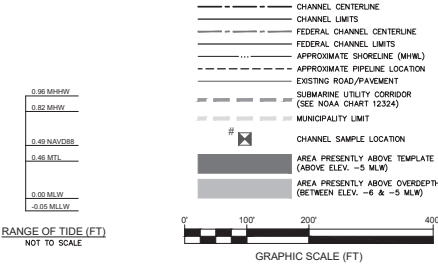
SCALE: 1" = 8,000'

SHOALING VOLUME	
BARNEGAT BEACH CHANNEL (122)	
0+00.0 TO 48+75.0	
TEMPLATE (+5 MLW)	1,360
OVERDEPTH (+6 MLW)	2,820
TOTAL (CY)	4,180

NOTES:

1. VERTICAL DATUM IS IN REFERENCE TO MEAN LOW WATER (MLW). MLW IS 0.40 FEET BELOW THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88). INFORMATION OBTAINED FROM NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION (NOAA) DATUM TRANSFORMATION PROGRAM, VERSION 4.6.1.
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5. EXISTING SHORELINE, DOCK, & PILING LOCATIONS BASED ON GOOGLE MAPS AERIAL IMAGERY DATED APRIL, 2021 AND SHOULD BE CONSIDERED APPROXIMATE.

LEGEND

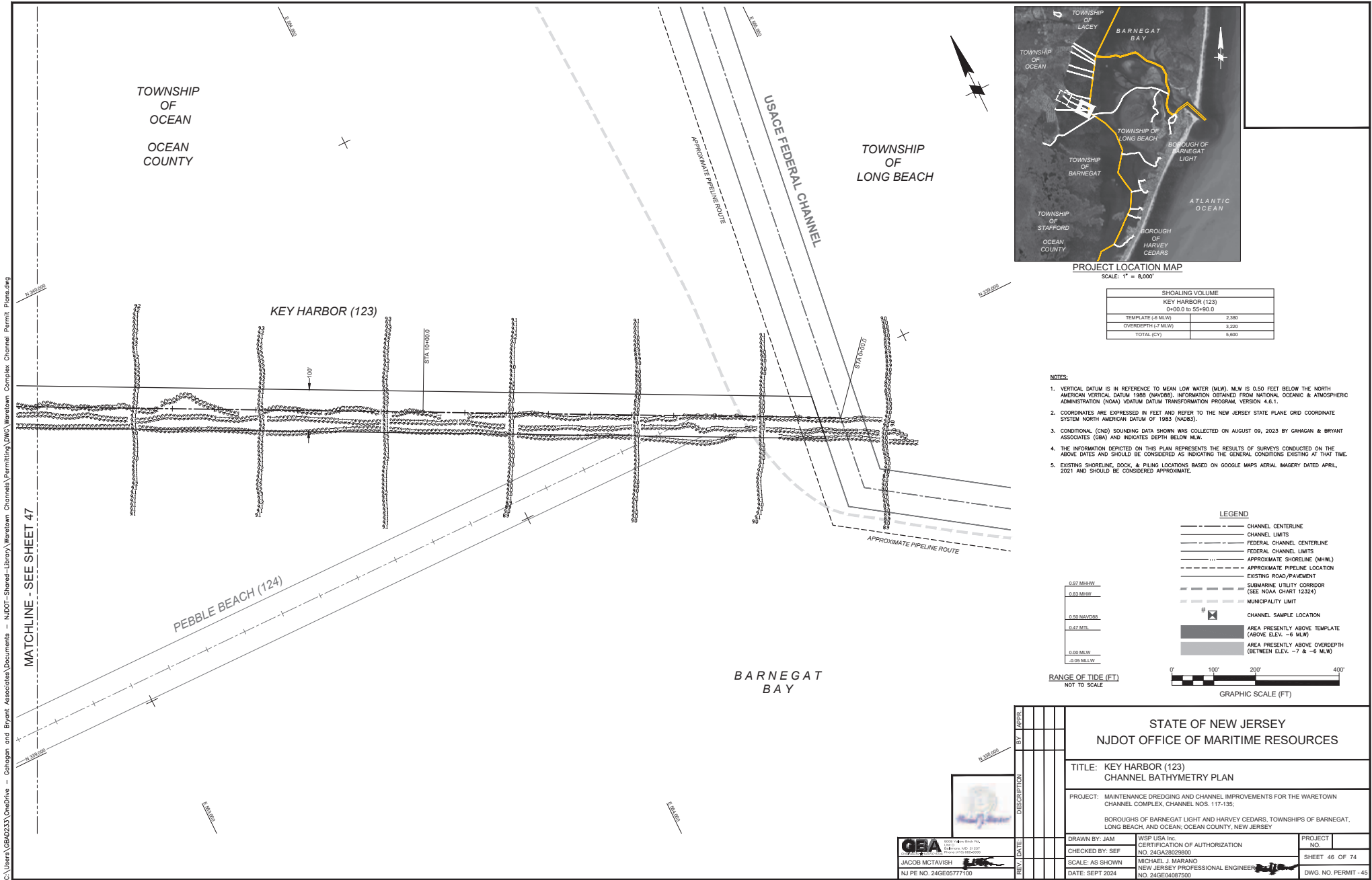


STATE OF NEW JERSEY NJDOT OFFICE OF MARITIME RESOURCES	
TITLE: BARNEGAT BEACH CHANNEL (122) CHANNEL BATHYMETRY PLAN	
PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE WARETOWN CHANNEL COMPLEX, CHANNEL NOS. 117-135; BOROUGH OF BARNEGAT LIGHT AND HARVEY CEDARS, TOWNSHIPS OF BARNEGAT, LONG BEACH, AND OCEAN, OCEAN COUNTY, NEW JERSEY	
DRAWN BY: JAM	WSP USA, INC. CERTIFICATION OF AUTHORIZATION NO. 24GA28028600
CHECKED BY: SEF	MICHAEL J. MARRANO NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE04087500
SCALE: AS SHOWN	DATE: SEPT 2024
PROJECT NO.	SHEET 45 OF 74
DWG. NO. PERMIT - 44	



JACOB MCTAVISH
NJ PE NO. 24GE05777100

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MATCHLINE - SEE SHEET 48

MATCHLINE - SEE SHEET 46

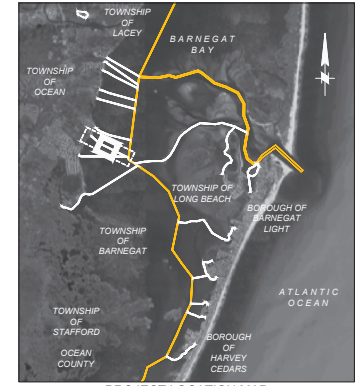
TOWNSHIP
OF
OCEAN

OCEAN
COUNTY

KEY HARBOR (123)

BARNEGAT
BAY

PEBBLE BEACH (124)



PROJECT LOCATION MAP

SCALE: 1" = 8,000'

SHOALING VOLUME	
KEY HARBOR (123)	
0+00.0 TO 55+90.0	
TEMPLATE (6 MLW)	2,380
OVERDEPTH (7 MLW)	3,220
TOTAL (CY)	5,600

NOTES

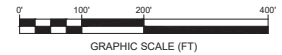
1. VERTICAL DATUM IS IN REFERENCE TO MEAN LOW WATER (MLW). MLW IS 0.50 FEET BELOW THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88). INFORMATION OBTAINED FROM NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION (NOAA) DATUM TRANSFORMATION PROGRAM, VERSION 4.6.1.
2. COORDINATES ARE EXPRESSED IN FEET AND REFER TO THE NEW JERSEY STATE PLANE GRID COORDINATE SYSTEM NORTH AMERICAN DATUM OF 1983 (NAD83).
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5. EXISTING SHORELINE, DOCK, & PILING LOCATIONS BASED ON GOOGLE MAPS AERIAL IMAGERY DATED APRIL, 2021 AND SHOULD BE CONSIDERED APPROXIMATE.

LEGEND

- CHANNEL CENTERLINE
- CHANNEL LIMITS
- FEDERAL CHANNEL CENTERLINE
- FEDERAL CHANNEL LIMITS
- APPROXIMATE SHORELINE (MHW/L)
- APPROXIMATE PIPELINE LOCATION
- EXISTING ROAD/PAVEMENT
- SUBMARINE UTILITY CORRIDOR (SEE NOAA CHART 12324)
- MUNICIPALITY LIMIT
- CHANNEL SAMPLE LOCATION
- AREA PRESENTLY ABOVE TEMPLATE (ABOVE ELEV. -6 MLW)
- AREA PRESENTLY ABOVE OVERDEPTH (BETWEEN ELEV. -7 & -6 MLW)

0.97 MHW
0.83 MHW
0.50 NAVD88
0.47 MTL
0.00 MLW
-0.06 MLW

RANGE OF TIDE (FT)
NOT TO SCALE



STATE OF NEW JERSEY
NJDOT OFFICE OF MARITIME RESOURCES

TITLE: KEY HARBOR (123)
CHANNEL BATHYMETRY PLAN

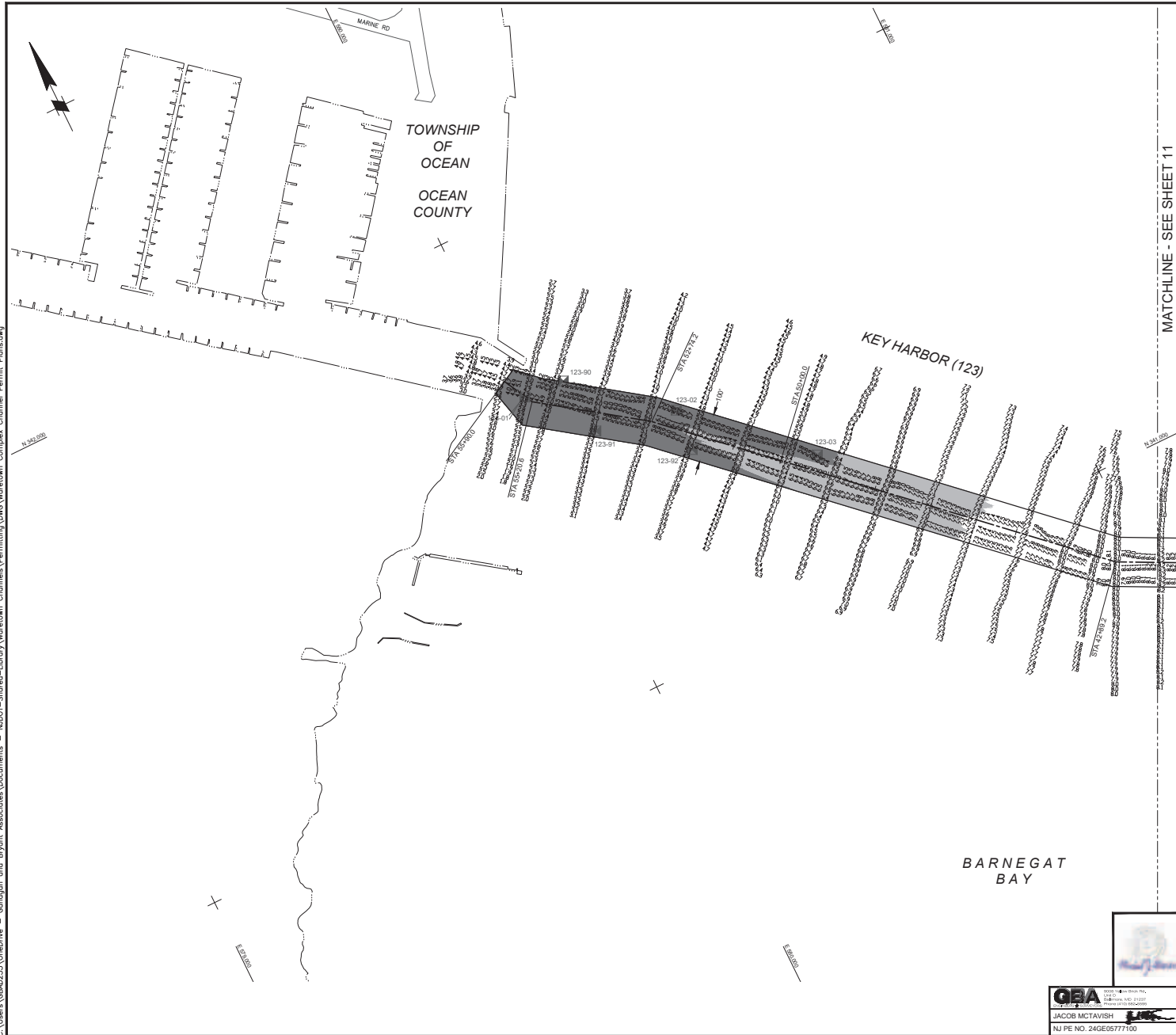
PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE WARETOWN CHANNEL COMPLEX, CHANNEL NOS. 117-135;
BOROUGH OF BARNEGAT LIGHT AND HARVEY CEDARS, TOWNSHIPS OF BARNEGAT, LONG BEACH, AND OCEAN, OCEAN COUNTY, NEW JERSEY

DRAWN BY: JAM	WSP USA INC. CERTIFICATION OF AUTHORIZATION NO. 24GA28028600	PROJECT NO.
CHECKED BY: SEF	MICHAEL J. MARANO NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE04087500	SHEET 47 OF 74
SCALE: AS SHOWN		DWG. NO. PERMIT - 46
DATE: SEPT 2024		



JACOB MCTAVISH
NJ PE NO. 24GE05777100

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PROJECT LOCATION MAP

SCALE: 1" = 8,000'

SHOALING VOLUME	
KEY HARBOR (123)	
0+00.0 to 55+90.0	
TEMPLATE (+6 MLW)	2,380
OVERDEPTH (+7 MLW)	3,220
TOTAL (CY)	5,600

NOTES

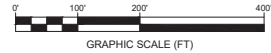
1. VERTICAL DATUM IS IN REFERENCE TO MEAN LOW WATER (MLW). MLW IS 0.50 FEET BELOW THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88). INFORMATION OBTAINED FROM NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION (NOAA) DATUM TRANSFORMATION PROGRAM, VERSION 4.6.1.
2. COORDINATES ARE EXPRESSED IN FEET AND REFER TO THE NEW JERSEY STATE PLANE GRID COORDINATE SYSTEM NORTH AMERICAN DATUM OF 1983 (NAD83).
3. CONDITIONAL (CND) SOUNDING DATA SHOWN WAS COLLECTED ON AUGUST 09, 2023 BY O'HAGAN & BRYANT ASSOCIATES (O&B) AND INDICATES DEPTH BELOW MLW.
4. THE INFORMATION DEPICTED ON THIS PLAN REPRESENTS THE RESULTS OF SURVEYS CONDUCTED ON THE ABOVE DATES AND SHOULD BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.
5. EXISTING SHORELINE, DOCK, & PILING LOCATIONS BASED ON GOOGLE MAPS AERIAL IMAGERY DATED APRIL, 2021 AND SHOULD BE CONSIDERED APPROXIMATE.

LEGEND

- CHANNEL CENTERLINE
- CHANNEL LIMITS
- FEDERAL CHANNEL CENTERLINE
- FEDERAL CHANNEL LIMITS
- APPROXIMATE SHORELINE (MHWL)
- APPROXIMATE PIPELINE LOCATION
- EXISTING ROAD/PAVEMENT
- SUBMARINE UTILITY CORRIDOR (SEE NOAA CHART 12324)
- MUNICIPALITY LIMIT
- CHANNEL SAMPLE LOCATION
- AREA PRESENTLY ABOVE TEMPLATE (ABOVE ELEV. +6 MLW)
- AREA PRESENTLY ABOVE OVERDEPTH (BETWEEN ELEV. +7 & +6 MLW)



RANGE OF TIDE (FT)
NOT TO SCALE



BARNEGAT
BAY

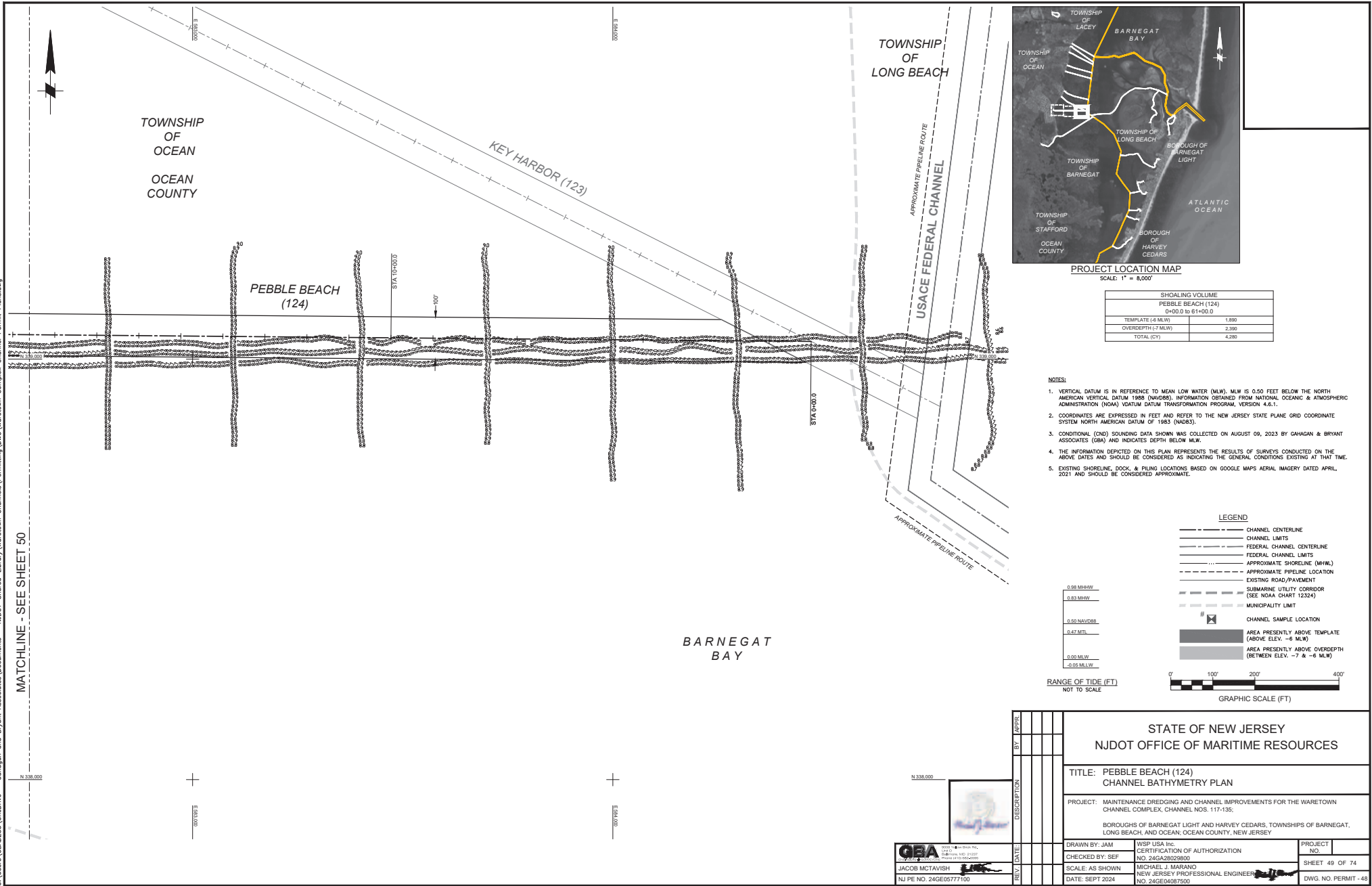


JACOB MCTAVISH
NJ PE NO. 24GE05777100

REV	DATE	DESCRIPTION	BY	APPR

STATE OF NEW JERSEY NJDOT OFFICE OF MARITIME RESOURCES	
TITLE: KEY HARBOR (123) CHANNEL BATHYMETRY PLAN	
PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE WARETOWN CHANNEL COMPLEX, CHANNEL NOS. 117-135.	
BOROUGH OF BARNEGAT LIGHT AND HARVEY CEDARS, TOWNSHIPS OF BARNEGAT, LONG BEACH, AND OCEAN, OCEAN COUNTY, NEW JERSEY	
DRAWN BY: JAM	WSP USA INC. CERTIFICATION OF AUTHORIZATION NO. 24GA28028600
CHECKED BY: SEF	MICHAEL J. MARANO NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE04087500
DATE: SEPT 2024	PROJECT NO. 24GA28028600 SHEET 48 OF 74 DWG. NO. PERMIT - 47

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MATCHLINE - SEE SHEET 51

TOWNSHIP
OF
OCEAN

OCEAN
COUNTY

PEBBLE BEACH
(124)

BARNEGAT
BAY

TOWNSHIP
OF
BARNEGAT



PROJECT LOCATION MAP

SCALE: 1" = 8,000'

SHOALING VOLUME	
PEBBLE BEACH (124)	
0+00.0 to 61+00.0	
TEMPLATE (+6 MLW)	1,800
OVERDEPTH (+7 MLW)	2,300
TOTAL (CY)	4,200

NOTES:

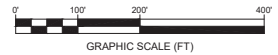
1. VERTICAL DATUM IS IN REFERENCE TO MEAN LOW WATER (MLW). MLW IS 0.50 FEET BELOW THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88). INFORMATION OBTAINED FROM NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION (NOAA) DATUM TRANSFORMATION PROGRAM, VERSION 4.6.1.
2. COORDINATES ARE EXPRESSED IN FEET AND REFER TO THE NEW JERSEY STATE PLANE GRID COORDINATE SYSTEM NORTH AMERICAN DATUM OF 1983 (NAD83).
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4. THE INFORMATION DEPICTED ON THIS PLAN REPRESENTS THE RESULTS OF SURVEYS CONDUCTED ON THE ABOVE DATES AND SHOULD BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.
5. EXISTING SHORELINE, DOCK, & PILING LOCATIONS BASED ON GOOGLE MAPS AERIAL IMAGERY DATED APRIL, 2021 AND SHOULD BE CONSIDERED APPROXIMATE.

LEGEND

- CHANNEL CENTERLINE
- CHANNEL LIMITS
- FEDERAL CHANNEL CENTERLINE
- FEDERAL CHANNEL LIMITS
- APPROXIMATE SHORELINE (NHWL)
- APPROXIMATE PIPELINE LOCATION
- EXISTING ROAD/PAVEMENT
- SUBMARINE UTILITY CORRIDOR (SEE NOAA CHART 12324)
- MUNICIPALITY LIMIT
- CHANNEL SAMPLE LOCATION
- AREA PRESENTLY ABOVE TEMPLATE (ABOVE ELEV. +6 MLW)
- AREA PRESENTLY ABOVE OVERDEPTH (BETWEEN ELEV. +7 & +6 MLW)

0.98 MH+00V
0.83 MH+00V
0.50 NAVD88
0.47 MFL
0.00 MLW
-0.06 MLW

RANGE OF TIDE (FT)
NOT TO SCALE



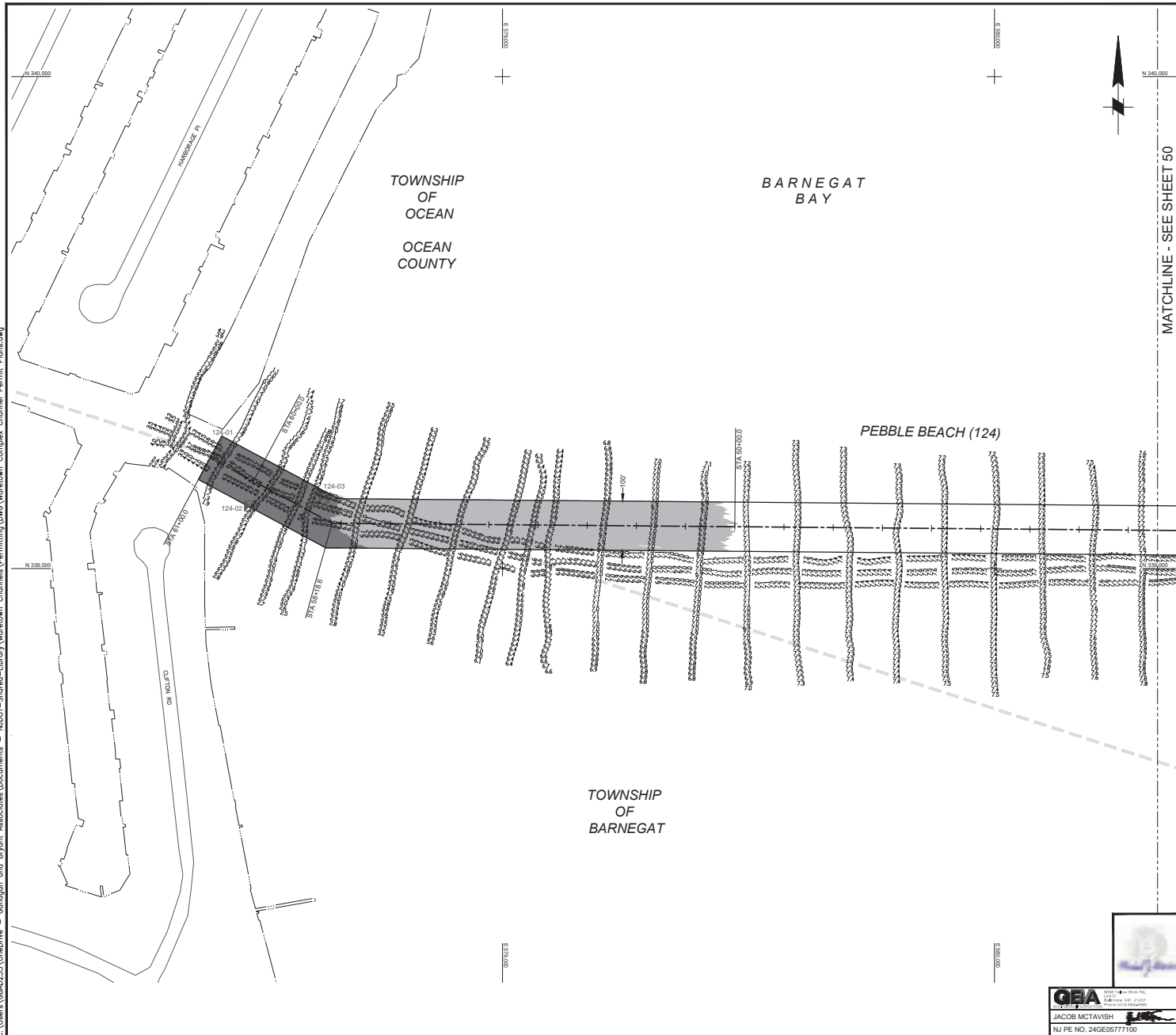
MATCHLINE - SEE SHEET 49

STATE OF NEW JERSEY NJDOT OFFICE OF MARITIME RESOURCES	
TITLE: PEBBLE BEACH (124) CHANNEL BATHYMETRY PLAN	
PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE WARETOWN CHANNEL COMPLEX, CHANNEL NOS. 117-135.	
BOROUGH OF BARNEGAT LIGHT AND HARVEY CEDARS, TOWNSHIPS OF BARNEGAT, LONG BEACH, AND OCEAN, OCEAN COUNTY, NEW JERSEY	
DRAWN BY: JAM	WSP USA, INC. CERTIFICATION OF AUTHORIZATION NO. 24GA28028600
CHECKED BY: SEF	MICHAEL J. MARRANO NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE04087500
SCALE: AS SHOWN	DATE: SEPT 2024
PROJECT NO.	SHEET 50 OF 74
DWG. NO. PERMIT - 48	

JACOB MCTAVISH
NJ PE NO. 24GE05777100



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PROJECT LOCATION MAP

SCALE: 1" = 8,000'

SHOALING VOLUME	
PEBBLE BEACH (124)	
0+00.0 to 61+00.0	
TEMPLATE (+6 MLW)	1,800
OVERDEPTH (+7 MLW)	2,300
TOTAL (CY)	4,200

NOTES:

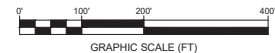
1. VERTICAL DATUM IS IN REFERENCE TO MEAN LOW WATER (MLW). MLW IS 0.50 FEET BELOW THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88). INFORMATION OBTAINED FROM NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION (NOAA) DATUM TRANSFORMATION PROGRAM, VERSION 4.6.1.
2. COORDINATES ARE EXPRESSED IN FEET AND REFER TO THE NEW JERSEY STATE PLANE GRID COORDINATE SYSTEM NORTH AMERICAN DATUM OF 1983 (NAD83).
3. CONDITIONAL (CND) SOUNDING DATA SHOWN WAS COLLECTED ON AUGUST 09, 2023 BY O'HANIAN & BRYANT ASSOCIATES (O&B) AND INDICATES DEPTH BELOW MLW.
4. THE INFORMATION DEPICTED ON THIS PLAN REPRESENTS THE RESULTS OF SURVEYS CONDUCTED ON THE ABOVE DATES AND SHOULD BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.
5. EXISTING SHORELINE, DOCK, & PILING LOCATIONS BASED ON GOOGLE MAPS AERIAL IMAGERY DATED APRIL, 2021 AND SHOULD BE CONSIDERED APPROXIMATE.

LEGEND

- CHANNEL CENTERLINE
- CHANNEL LIMITS
- FEDERAL CHANNEL CENTERLINE
- FEDERAL CHANNEL LIMITS
- APPROXIMATE SHORELINE (MHW/L)
- APPROXIMATE PIPELINE LOCATION
- EXISTING ROAD/PAVEMENT
- SUBMARINE UTILITY CORRIDOR (SEE NOAA CHART 12324)
- MUNICIPALITY LIMIT
- CHANNEL SAMPLE LOCATION
- AREA PRESENTLY ABOVE TEMPLATE (ABOVE ELEV. +6 MLW)
- AREA PRESENTLY ABOVE OVERDEPTH (BETWEEN ELEV. +7 & +6 MLW)

0.00 MHW
0.00 MHW
0.00 NAVD88
0.47 MTL
0.00 MLW
-0.00 MLW

RANGE OF TIDE (FT)
NOT TO SCALE



STATE OF NEW JERSEY NJDOT OFFICE OF MARITIME RESOURCES	
TITLE: PEBBLE BEACH (124) CHANNEL BATHYMETRY PLAN	
PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE WARETOWN CHANNEL COMPLEX, CHANNEL NOS. 117-135.	
BOROUGH OF BARNEGAT LIGHT AND HARVEY CEDARS, TOWNSHIPS OF BARNEGAT, LONG BEACH, AND OCEAN, OCEAN COUNTY, NEW JERSEY	
DRAWN BY: JAM	WSP USA INC. CERTIFICATION OF AUTHORIZATION NO. 24GA28028800
CHECKED BY: SEF	MICHAEL J. MARANO NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE04087500
SCALE: AS SHOWN	DATE: SEPT 2024
PROJECT NO.	SHEET 51 OF 74
DWG. NO. PERMIT - 50	



JACOB MCTAVISH
NJ PE NO. 24GE05777100

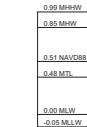


SCALE: 1" = 8,000'

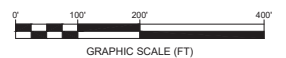
SHOALING VOLUME	
DOUBLE CREEK MAINLAND CHANNEL (125)	
0+00.0 to 119+45.0	
TEMPLATE (-7 MLW)	15,450
OVERDEPTH (-8 MLW)	21,430
TOTAL (CY)	36,880

1. VERTICAL DATUM IS IN REFERENCE TO MEAN LOW WATER (MLW). MLW IS 0.51 FEET BELOW THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD83). INFORMATION OBTAINED FROM NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION (NOAA) VERTICAL DATUM TRANSFORMATION PROGRAM, VERSION 4.6.1.
2. COORDINATES ARE EXPRESSED IN FEET AND REFER TO THE NEW JERSEY STATE GRID COORDINATE SYSTEM NORTH AMERICAN DATUM 1983 (NAD83).
3. CONDITIONAL (CND) SOUNDING DATA SHOWN WAS COLLECTED ON AUGUST 04-06, 2023 BY GAHAGAN & BRYANT ASSOCIATES (GBA) AND INDICATES DEPTHS BELOW MLW.
4. THE INFORMATION DEPICTED ON THIS PLAN REPRESENTS THE RESULTS OF SURVEYS CONDUCTED ON THE DATE(S) SHOWN AND SHOULD BE CONSIDERED AS SUCH. ANY GENERAL CONDITIONS EXISTING AT A TIME.
5. EXISTING SHOULDER, DOCK, & PILING LOCATIONS BASED ON GOOGLE MAPS AERIAL IMAGERY DATED APRIL, 2021 AND SHOULD BE CONSIDERED APPROXIMATE.

=====	CHANNEL CENTERLINE
-----	CHANNEL LIMITS
-----	FEDERAL CHANNEL CENTERLINE
-----	FEDERAL CHANNEL LIMITS
-----	APPROXIMATE SHORELINE (MHWL)
-----	APPROXIMATE PIPELINE LOCATION
-----	EXISTING ROAD/PAVEMENT
-----	SUBMARINE UTILITY CORRIDOR (SEE NOAA CHART 12324)
-----	MUNICIPALITY LIMIT
#	CHANNEL SAMPLE LOCATION
■	AREA PRESENTLY ABOVE TEMPLATE (ABOVE ELEV. -7 MLW)
■	AREA PRESENTLY ABOVE OVERDEPTH (BETWEEN ELEV. -8 & -7 MLW)



RANGE OF TIDE (FT)
NOT TO SCALE



STATE OF NEW JERSEY
NJDOT OFFICE OF MARITIME RESOURCES

TITLE: DOUBLE CREEK MAINLAND CHANNEL (125)
CHANNEL BATHYMETRY PLAN

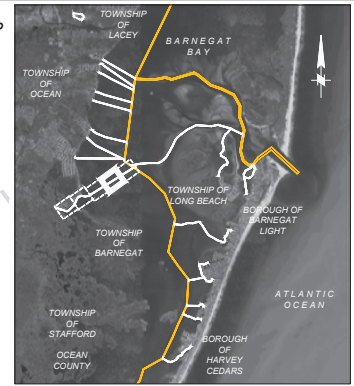
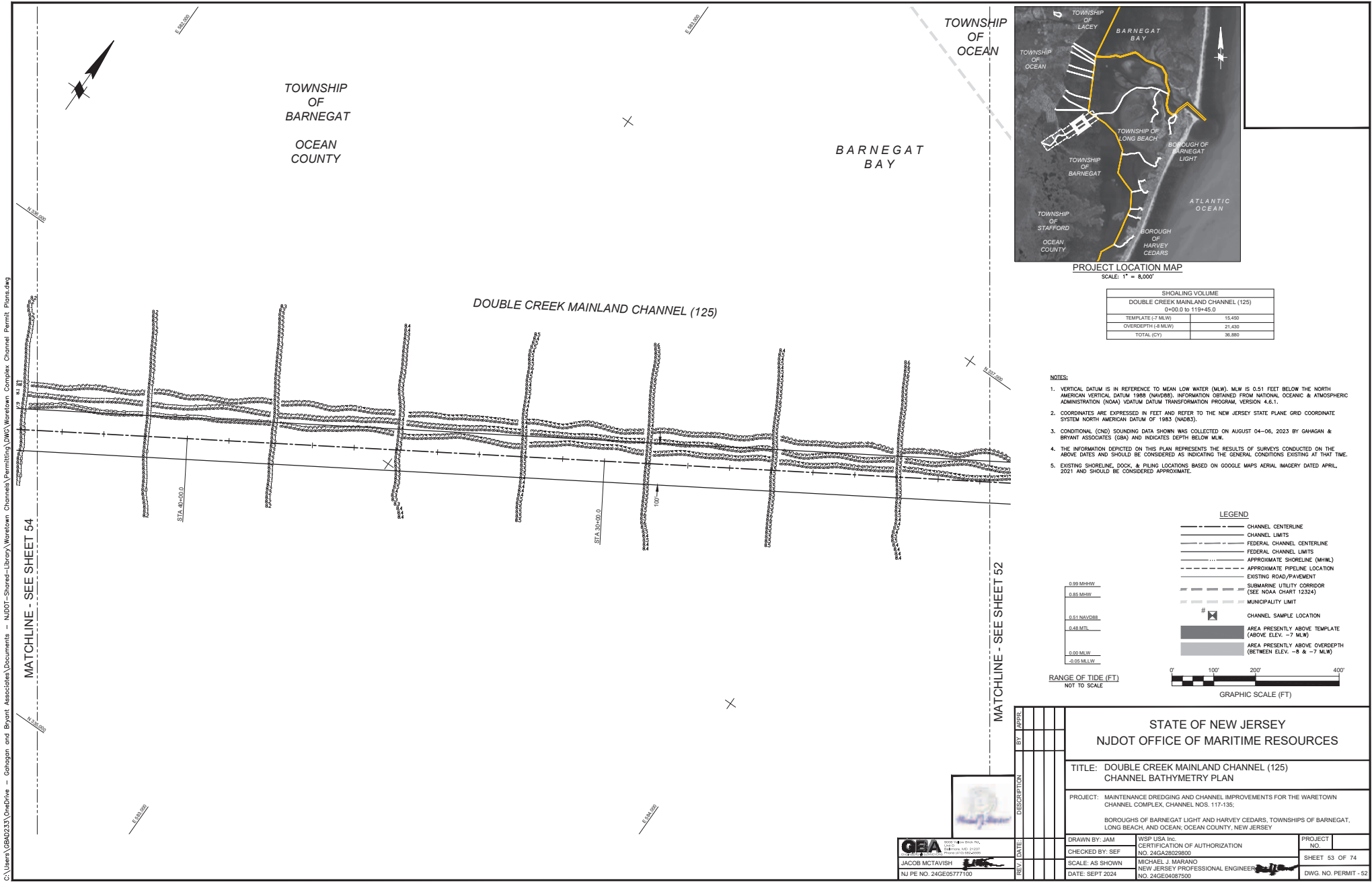
PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE WARETOWN CHANNEL COMPLEX, CHANNEL NOS. 117-135;

BOROUGH OF BARNEGAT LIGHT AND HARVEY CEDARS, TOWNSHIPS OF BARNEGAT,
LONG BEACH, AND OCEAN; OCEAN COUNTY, NEW JERSEY

DRAWN BY: JAM	WSP USA Inc.	PROJECT NO.	
CHECKED BY: SEF	CERTIFICATION OF AUTHORIZATION NO. 24GA28029800	SHEET 52 OF 74	
SCALE: AS SHOWN	MICHAEL J. MARANO NEW JERSEY PROFESSIONAL ENGINEER		
DATE: SEPT 2024	NO. 24GE04087500	DWG. NO. PERMIT - 51	



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PROJECT LOCATION MAP

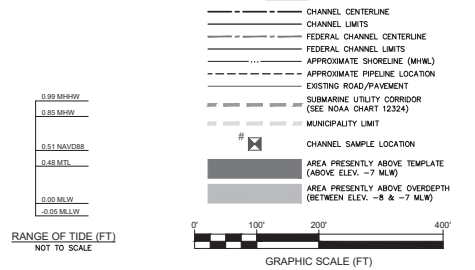
SCALE: 1" = 8,000'

SHOALING VOLUME	
DOUBLE CREEK MAINLAND CHANNEL (125)	
0+00.0 to 119+45.0	
TEMPLATE (+7 MLW)	15,450
OVERDEPTH (+8 MLW)	21,430
TOTAL (CY)	36,880

NOTES:

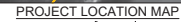
1. VERTICAL DATUM IS IN REFERENCE TO MEAN LOW WATER (MLW). MLW IS 0.51 FEET BELOW THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88). INFORMATION OBTAINED FROM NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION (NOAA) DATUM TRANSFORMATION PROGRAM, VERSION 4.6.1.
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5. EXISTING SHORELINE, DOCK, & PILING LOCATIONS BASED ON GOOGLE MAPS AERIAL IMAGERY DATED APRIL, 2021 AND SHOULD BE CONSIDERED APPROXIMATE.

LEGEND



STATE OF NEW JERSEY NJDOT OFFICE OF MARITIME RESOURCES	
TITLE: DOUBLE CREEK MAINLAND CHANNEL (125) CHANNEL BATHYMETRY PLAN	
PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE WARETOWN CHANNEL COMPLEX, CHANNEL NOS. 117-135; BOROUGH OF BARNEGAT LIGHT AND HARVEY CEDARS, TOWNSHIPS OF BARNEGAT, LONG BEACH, AND OCEAN, OCEAN COUNTY, NEW JERSEY	
DRAWN BY: JAM	WSP USA, Inc. CERTIFICATION OF AUTHORIZATION NO. 24GA28028600
CHECKED BY: SEF	MICHAEL J. MARANO NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE04087500
SCALE: AS SHOWN	DATE: SEPT 2024
PROJECT NO.	SHEET 53 OF 74
DWG. NO. PERMIT - 52	

GBA
JACOB MCTAVISH
NJ PE NO. 24GE05777100



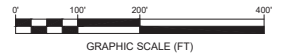
SCALE: 1" = 8,000'

NOTES:

- LEGEND

0.99 MHW
0.85 MHW
0.51 NAVD88
0.48 MTL
0.00 MLW
-0.05 MLLW

RANGE OF TIDE (FT)
NOT TO SCALE



MATCHLINE - SEE SHEET 53

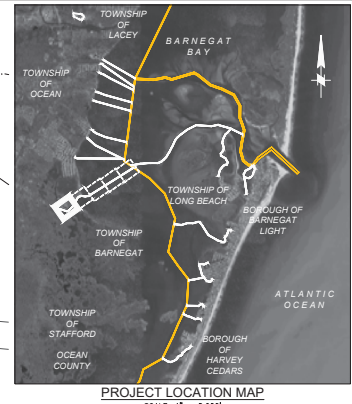
GBA
ONE SOURCE SOLUTIONS

8008 Yellow Birch Dr.
Unit D
Baltimore, MD 21208
Phone (410) 682-0999

JACOB MCTAVISH

NJ PE NO. 24GE05777100

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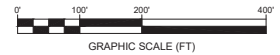


NOTES:

1. VERTICAL DATUM IS IN REFERENCE TO MEAN LOW WATER (MLW). MLW IS 0.51 FEET BELOW THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88). INFORMATION OBTAINED FROM NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION (NOAA) DATUM TRANSFORMATION PROGRAM, VERSION 4.6.1.
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LEGEND

- CHANNEL CENTERLINE
- CHANNEL LIMITS
- FEDERAL CHANNEL CENTERLINE
- FEDERAL CHANNEL LIMITS
- APPROXIMATE SHORELINE (MHWL)
- APPROXIMATE PIPELINE LOCATION
- EXISTING ROAD/PAVEMENT
- SUBMARINE UTILITY CORRIDOR (SEE NOAA CHART 12324)
- MUNICIPALITY LIMIT
- CHANNEL SAMPLE LOCATION
- AREA PRESENTLY ABOVE TEMPLATE (ABOVE ELEV. -7' MLW)
- AREA PRESENTLY ABOVE OVERDEPTH (BETWEEN ELEV. -8' & -7' MLW)



REV	DATE	DESCRIPTION	BY	APPR

STATE OF NEW JERSEY NJDOT OFFICE OF MARITIME RESOURCES	
TITLE: DOUBLE CREEK MAINLAND CHANNEL (125) CHANNEL BATHYMETRY PLAN	
PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE WARETOWN CHANNEL COMPLEX, CHANNEL NOS. 117-135.	
BOROUGH OF BARNEGAT LIGHT AND HARVEY CEDARS, TOWNSHIPS OF BARNEGAT, LONG BEACH, AND OCEAN, OCEAN COUNTY, NEW JERSEY	
DRAWN BY: JAM	WSP USA INC. CERTIFICATION OF AUTHORIZATION NO. 24GA28028600
CHECKED BY: SEF	MICHAEL J. MARANO NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE04087500
SCALE: AS SHOWN	DATE: SEPT 2024
PROJECT NO.: 24GE04087500	SHEET 56 OF 74
DWG. NO. PERMIT - 55	

