



**US Army Corps
of Engineers**
Philadelphia District

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

Public Notice

Public Notice No. CENAP-OP-R-2020-00257-95	Date 21 April 2020
Application No. CENAP-OP-R-2020-00257-95	File No.

In Reply Refer to:
REGULATORY BRANCH

This District has received an application for a Department of the Army (DA) permit pursuant to Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403) and Section 404 of the Clean Water Act (33 U.S.C. 1344).

The purpose of this notice is to solicit comments and recommendations from the public concerning issuance of a Department of the Army permit for the work described below.

APPLICANT: New Jersey Department of Transportation
Office of Maritime Resources
Attn: Ms. Genevieve Clifton
P.O. Box 600
Trenton, New Jersey 08625-0600

WATERWAY: Barnegat Bay – Berkeley Shores State Channel Complex: Berkeley Shores North Channel (#092) and Berkeley Shores Channel (#093) and Berkeley Shores Spur Channel (#094).

LOCATION: Berkeley Township, Ocean County, New Jersey; Latitude 39.923558°N, Longitude: -74.114653°W

ACTIVITY: The applicant, New Jersey Department of Transportation – Office of Maritime Resources, has requested Department of the Army authorization to perform ten (10)-year maintenance dredging of three (3) channels within Barnegat Bay, identified as the Berkeley Shores State Channel Complex: Berkeley Shores North Channel, Berkeley Shores Channel, and Berkeley Shores Spur Channel. All of the work would be accomplished via hydraulic cutterhead dredge or mechanical bucket dredge. All resultant dredged material, estimated to total approximately 10,755.0-cubic yards of sand and silt, would be transported via floating and submerged pipeline to the Good Luck Point marsh restoration site in Berkeley Township, Ocean County, New Jersey; and/or hydraulically or mechanically dredged and transported via pipeline or scow vessel to the Dredged Hole #25 restoration site in Lavallette Borough, Ocean County, New Jersey for use as restorative fill.

The Berkeley Shores State Channel Complex has been historically maintenance dredged, most recently in 1992 under DA Permit Number NAP-1987-02039-15. Restoration of the Good Luck Point site is authorized under DA Permit

Number NAP-2017-00702-86. Restoration of Dredged Hole #25 is authorized under DA Permit Number NAP-2016-00297-95.

The hydraulic dredge pipeline would be marked in accordance with U.S. Coast Guard regulations and would be floating, except where it crosses navigation channels where it will be sunken for safety reasons.

Each maintenance dredging event is anticipated to be approximately twelve (12) weeks in duration, including mobilization/demobilization, dredging, and material placement activities. Two (2) or three (3) maintenance dredging events are anticipated to be conducted over the next ten (10)-years.

Berkeley Shores North Channel (#092):

Maintenance dredging of 3,805.0-cubic yards of shoaled sediments from a 1,400.0-foot long channel to -5.0-feet below the plane of Mean Low Water (MLW), plus 1.0-foot of allowable overdredge, is proposed. The channel design width is 100.0-linear feet, with 3:1 side slopes.

Berkeley Shores Channel (#093):

Maintenance dredging of 4,130.0-cubic yards of shoaled sediments from a 3,800-linear foot long channel to -5.0-feet below the plane of MLW, plus 1.0-foot of allowable overdredge, is proposed. The channel design width is 100.0-linear feet, tapering to 50.0-linear feet, with 3:1 side slopes.

Berkeley Shores Spur Channel (#094):

Maintenance dredging of 2,820.0-cubic yards of shoaled sediments from an 800.0-foot long channel to -5.0-feet below the plane of MLW, plus 1.0-foot of allowable overdredge, is proposed. The channel design width is 100.0-linear feet, tapering to 50.0-linear feet, with 3:1 side slopes.

PURPOSE: The stated purpose of this project is to restore and maintain safe navigational depths for transiting recreational and emergency vessels in Barnegat Bay.

The decision whether to issue a permit will be based on an evaluation of the activity's probable impact including its cumulative impacts on the public interest. The decision will reflect the national concern for both protection and utilization of important resources. The benefits which reasonably may be expected to accrue from the work must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the work will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, cultural values, fish and wildlife values, flood hazards, flood plain values, land use, navigation, shore erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs and welfare of the people. A Department of the Army permit will be granted unless the District Engineer determines that it would be contrary to the public interest.

The Corps of Engineers is soliciting comments from the public; Federal, State, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To

make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

Due to the potential for extensive telework associated with the COVID-19 situation, all comments on the proposed work should be submitted, within thirty (30) days, via email only to the District Engineer, U.S. Army Corps of Engineers - Philadelphia District at PhiladelphiaDistrictRegulatory@usace.army.mil.

From a review of this application concerning Section 106 of the National Historic Preservation Act of 1966, the permit area has been so extensively modified from past use, including historical maintenance dredging, that little likelihood exists for the proposed project to impact an historic property.

A preliminary review of this application indicates that the proposed work may affect listed aquatic-based species or their critical habitat. Pursuant to Section 7 of the Endangered Species Act (ESA), the Philadelphia District will evaluate the potential effects from the proposed actions to these species and their habitat, and consult with NOAA Fisheries as appropriate. Consultation will be concluded prior to the final decision on this permit application.

A preliminary review of this application indicates that the proposed work would not affect listed land-based species or their critical habitat. Rationale for this determination is that the proposed dredged material placement sites are currently authorized by DA permits. Specifically, the restoration of the Good Luck Point site is authorized by DA Permit Number NAP-2017-00702-86; and the restoration of Dredged Hole #25 is authorized by DA Permit Number NAP-2016-00297-95. Additionally, the absence of habitat for ESA-managed species within the subject State channels where dredging is being undertaken would not affect listed land-based species or their critical habitat. As a result, pursuant to Section 7 of the ESA, consultation with the U.S. Fish and Wildlife Service is not necessary. As the evaluation of this application continues, additional information may become available which could modify this preliminary determination.

The Magnuson-Stevens Fishery Conservation and Management Act requires all federal agencies to consult with the NOAA Fisheries for all actions, or proposed actions, permitted, funded, or undertaken by the agency that may adversely affect Essential Fish Habitat (EFH). A preliminary review of this application indicates that EFH is present within the project area. The Philadelphia District will evaluate the potential effects of the proposed actions on EFH and will consult with NOAA Fisheries as appropriate. Consultation will be concluded prior to the final decision on this permit application.

In accordance with Section 307(c) of the Coastal Zone Management Act of 1972, applicants for Federal Licenses or Permits to conduct an activity affecting land or water uses in a State's coastal zone must provide certification that the activity complies with the State's Coastal Zone Management Program. The applicant has stated that the proposed activity complies with and will be conducted in a manner that is consistent with the approved State Coastal Zone Management (CZM) Program. No permit will be issued until the State has concurred with the applicant's certification or has waived its right to do so. Comments concerning the impact of the proposed

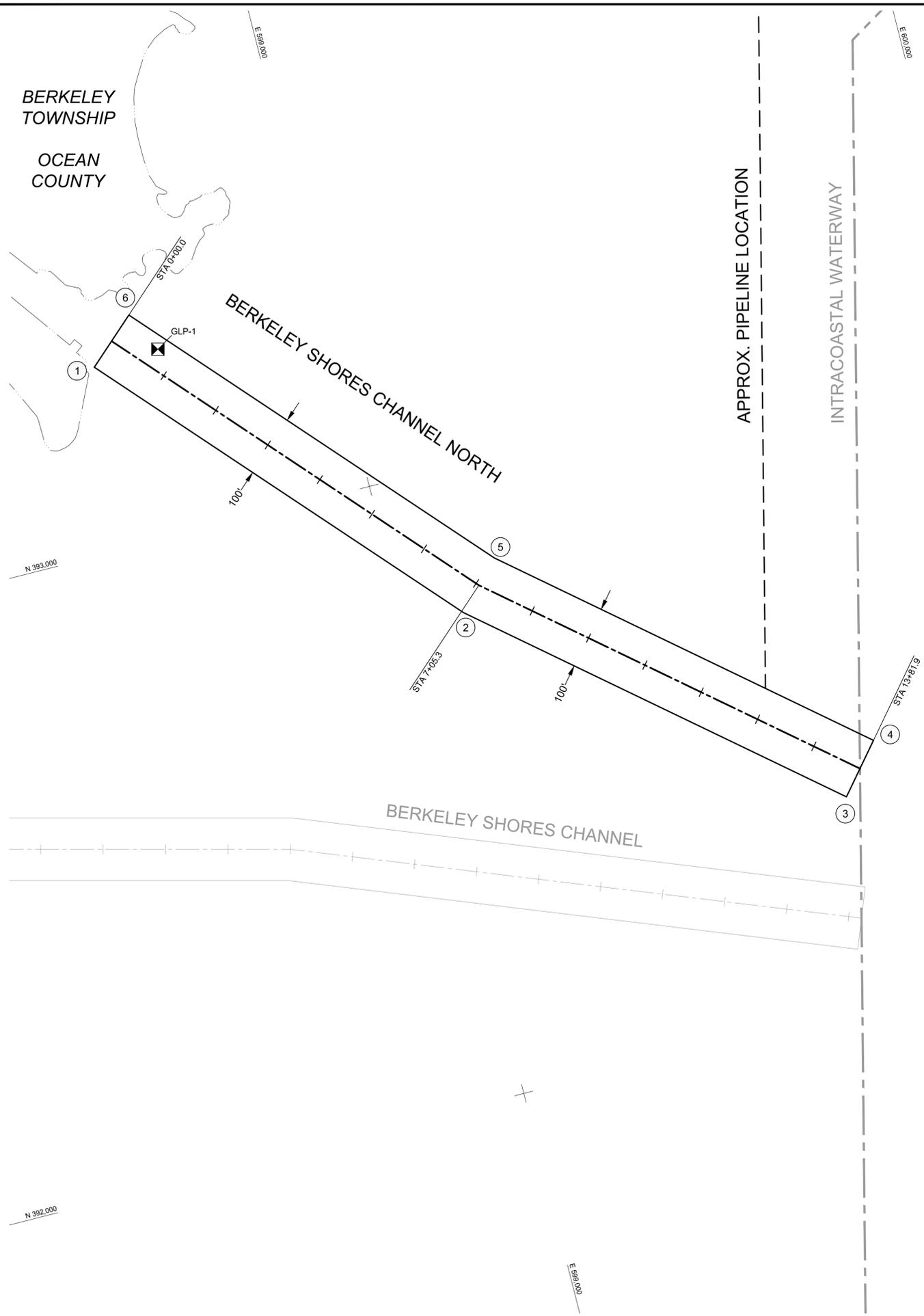
and/or existing activity on the State's coastal zone should be sent to this office, with a copy to the State's Office of Coastal Zone Management.

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

Additional information concerning this permit application may be obtained by contacting Mr. Robert Youhas of my staff at via email at robert.youhas@usace.army.mil, or by phone at 215-656-6729.

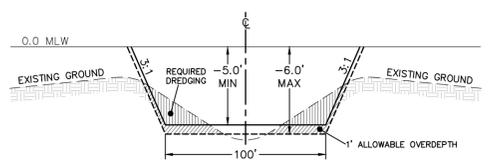
Edward E. Bonner
Chief, Regulatory Branch

BERKELEY TOWNSHIP
OCEAN COUNTY



PROJECT LOCATION MAP
SCALE: 1" = 4000'

BARNEGAT BAY



TYPICAL SECTION: BERKELEY SHORES CHANNEL NORTH STA 0+00.0 TO 13+81.9
NOT TO SCALE

NOTES:

1. VERTICAL DATUM IS IN REFERENCE TO MEAN LOW WATER (MLW). MLW IS 0.42 FEET BELOW THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88). INFORMATION OBTAINED FROM NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION (NOAA) VDATUM DATUM TRANSFORMATION PROGRAM, VERSION 4.0.1.
2. COORDINATES ARE EXPRESSED IN FEET AND REFER TO THE NEW JERSEY STATE PLANE GRID COORDINATE SYSTEM NORTH AMERICAN DATUM OF 1983 (NAD83).
3. EXISTING SHORELINE (MHWL) & DOCK LOCATIONS ARE BASED ON AERIAL IMAGERY AND SHOULD BE CONSIDERED APPROXIMATE.
4. AERIAL IMAGERY SHOWN FROM BING MAPS DATED JUNE-AUGUST, 2019.

LEGEND

- CHANNEL CENTERLINE
- CHANNEL LIMITS
- APPROXIMATE SHORELINE (MHWL)
- APPROXIMATE PIPELINE LOCATION
- EXISTING ROAD/PAVEMENT
- CHANNEL SAMPLE LOCATION
- HISTORIC RESOURCE AND BUFFER

RANGE OF TIDE (FT)
NOT TO SCALE

0.83 HTL (MHHW)
0.67 MHW
0.42 NAVD88
0.34 MTL
0.00 MLW
-0.08 MLLW

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

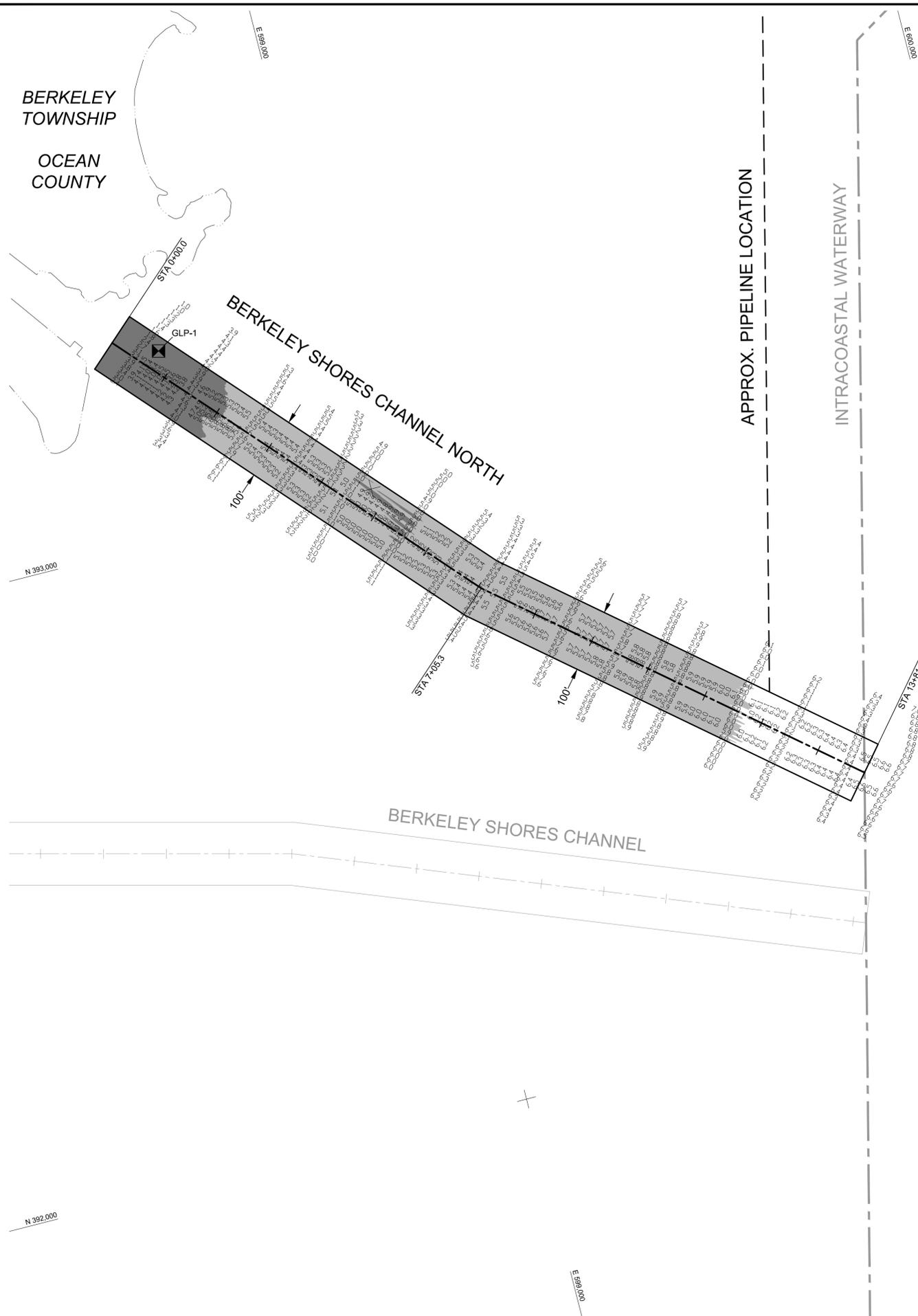
BY / APPR		DESCRIPTION		DATE		STATE OF NEW JERSEY	
						NJDOT OFFICE OF MARITIME RESOURCES	
TITLE: BERKELEY SHORES CHANNEL NORTH CHANNEL ARRANGEMENT & GEOMETRY PLAN						PROJECT NO.	
PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR BERKELEY SHORES CHANNEL NORTH, BERKELEY SHORES CHANNEL, BERKELEY SHORES CHANNEL SPUR, BERKELEY TOWNSHIP / TOMS RIVER TOWNSHIP, OCEAN COUNTY, NEW JERSEY						SHEET 1 OF 13	
DRAWN BY: SEF		WSP USA Inc.		PROJECT NO.		DWG. NO. PERMIT - 01	
CHECKED BY: MJM		CERTIFICATION OF AUTHORIZATION NO. 24GA28029800		PROJECT NO.		SHEET 1 OF 13	
SCALE: AS SHOWN		MICHAEL J. MARANO		PROJECT NO.		DWG. NO. PERMIT - 01	
DATE: APRIL 2020		NEW JERSEY PROFESSIONAL ENGINEER		PROJECT NO.		DWG. NO. PERMIT - 01	
DATE: APRIL 2020		NO. 24GE04087500		PROJECT NO.		DWG. NO. PERMIT - 01	

GBA
9000 Yellow Brick Rd.
Unit D
Baltimore, MD 21237
Phone (410) 682-5595

STAN LULEWICZ
NJ PE NO. 24GE04770900

E:\WORK\Berkeley_Shores_Silver_Boj\DWG\Permit\Berkeley_Shores_Complex_Channels.dwg

BERKELEY
TOWNSHIP
OCEAN
COUNTY



BARNEGAT
BAY

N 393,000

N 392,000

N 392,000

CHANNEL VOLUMES BASED ON JULY 7, 2017
CONDITIONAL SURVEY DATA

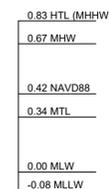
BERKELEY SHORES CHANNEL NORTH 0+00.0 to 13+81.9	
TEMPLATE (-5 MLW)	985
OVERDEPTH (-6 MLW)	2,820
TOTAL (CY)	3,805

NOTES:

1. VERTICAL DATUM IS IN REFERENCE TO MEAN LOW WATER (MLW). MLW IS 0.42 FEET BELOW THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88). INFORMATION OBTAINED FROM NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION (NOAA) VDATUM DATUM TRANSFORMATION PROGRAM, VERSION 4.0.1.
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 7, 2017 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 BING MAPS AERIAL IMAGERY DATED JUNE-AUGUST, 2019 AND SHOULD BE CONSIDERED APPROXIMATE.

LEGEND

- CHANNEL CENTERLINE
- CHANNEL LIMITS
- - - APPROXIMATE SHORELINE (MHW)
- - - APPROXIMATE PIPELINE LOCATION
- EXISTING ROAD/PAVEMENT
- # CHANNLE SAMPLE LOCATION
- ⊕ HISTORIC RESOURCE AND BUFFER



RANGE OF TIDE (FT)
NOT TO SCALE

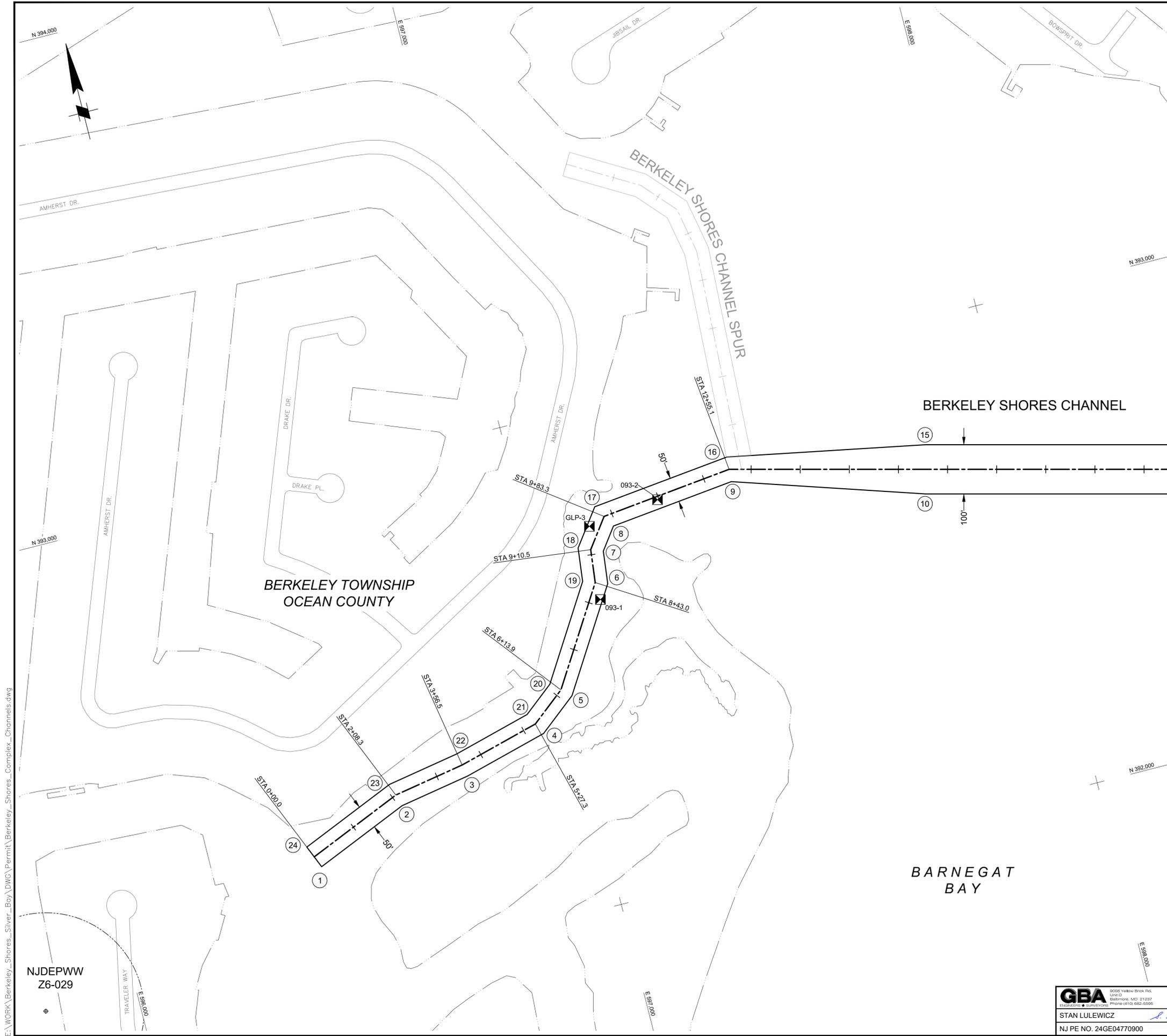


GRAPHIC SCALE (FT)

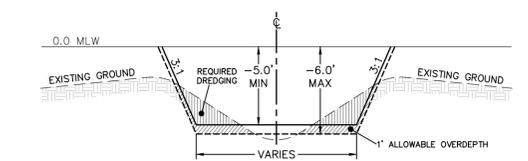
BY / APPR		<p align="center">STATE OF NEW JERSEY NJDOT OFFICE OF MARITIME RESOURCES</p> <p>TITLE: BERKELEY SHORES CHANNEL NORTH CHANNEL BATHYMETRY PLAN</p> <p>PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR BERKELEY SHORES CHANNEL NORTH, BERKELEY SHORES CHANNEL, BERKELEY SHORES CHANNEL SPUR BERKELEY TOWNSHIP / TOMS RIVER TOWNSHIP OCEAN COUNTY, NEW JERSEY</p>				
DESCRIPTION				DRAWN BY: SEF	WSP USA Inc. CERTIFICATION OF AUTHORIZATION NO. 24GA28029800	PROJECT NO.
DATE				CHECKED BY: MJM	MICHAEL J. MARANO NEW JERSEY PROFESSIONAL ENGINEER	SHEET 2 OF 13
REV		STAN LULEWICZ	MICHAEL J. MARANO NEW JERSEY PROFESSIONAL ENGINEER	DWG. NO. PERMIT - 02		
		NJ PE NO. 24GE04770900	NO. 24GE04087500			

GBA
9000 Yellow Brick Rd.
Linthicum, MD 21217
Phone (410) 682-5595

E:\WORK\Berkeley_Shores_Silver_Boj\DWG\Permit\Berkeley_Shores_Complex_Channels.dwg



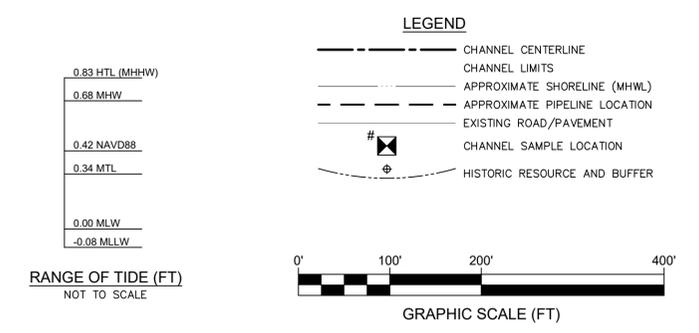
PROJECT LOCATION MAP
SCALE: 1" = 4000'



TYPICAL SECTION: BERKELEY SHORES CHANNEL STA 0+00.0 TO 35+20.6
NOT TO SCALE

NOTES:

1. VERTICAL DATUM IS IN REFERENCE TO MEAN LOW WATER (MLW). MLW IS 0.42 FEET BELOW THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88). INFORMATION OBTAINED FROM NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION (NOAA) VDATUM DATUM TRANSFORMATION PROGRAM, VERSION 4.0.1.
2. COORDINATES ARE EXPRESSED IN FEET AND REFER TO THE NEW JERSEY STATE PLANE GRID COORDINATE SYSTEM NORTH AMERICAN DATUM OF 1983 (NAD83).
3. EXISTING SHORELINE (MHWL) & DOCK LOCATIONS ARE BASED ON AERIAL IMAGERY AND SHOULD BE CONSIDERED APPROXIMATE.
4. AERIAL IMAGERY SHOWN FROM BING MAPS DATED JUNE-AUGUST, 2019.



MATCHLINE - SEE SHEET 4

E:\WORK\Berkeley_Shores_Silver_Boy\DWG\Permit\Berkeley_Shores_Complex_Channels.dwg

NJDEPWW
Z6-029

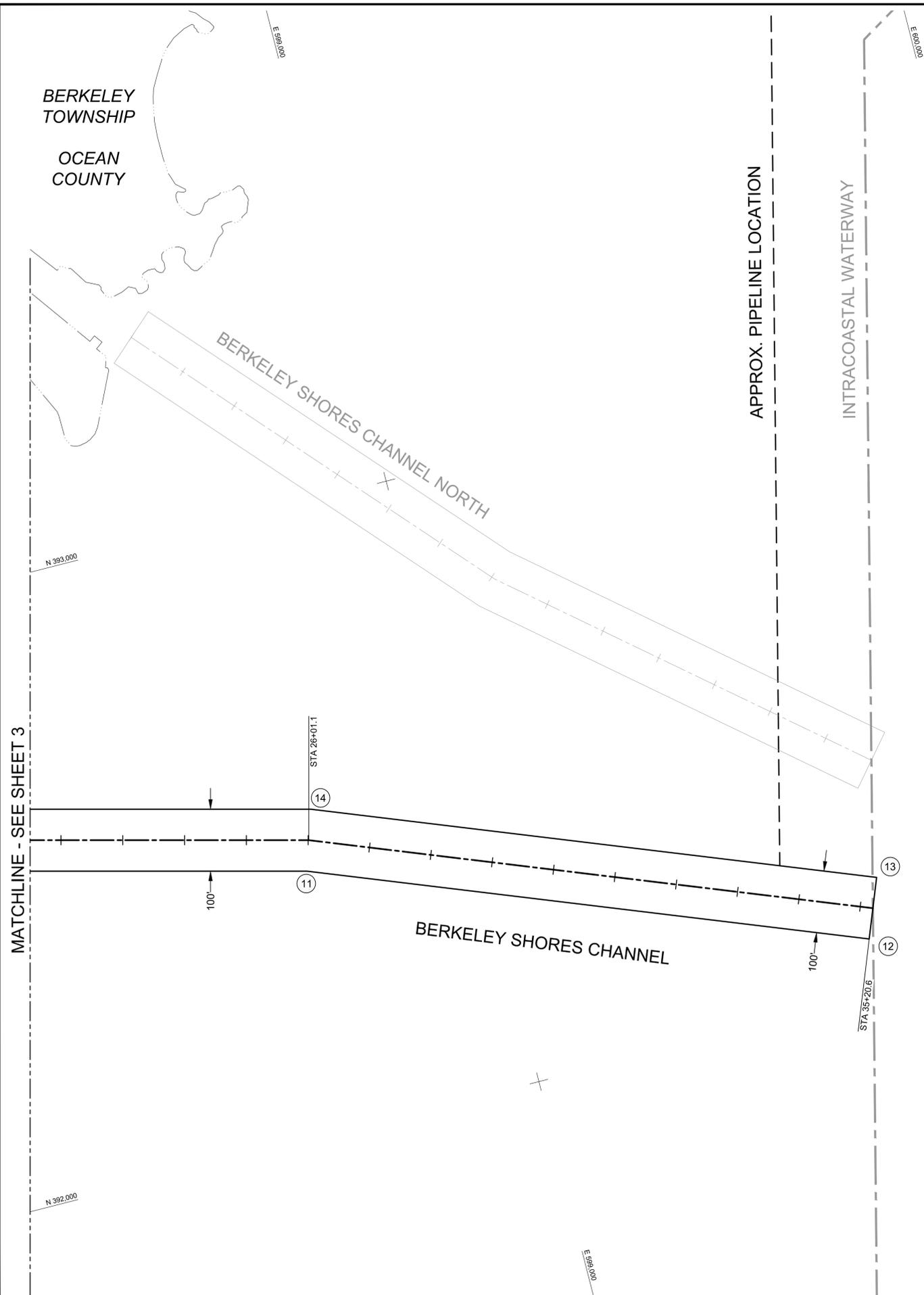
GBA
9000 Yellow Brick Rd.
Unit D
Baltimore, MD 21237
Phone (410) 682-6595

REV.	DATE	DESCRIPTION	BY	APPR.

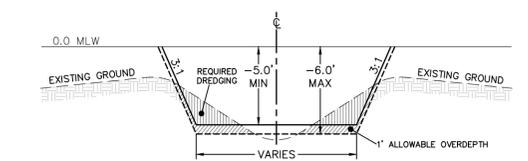
STATE OF NEW JERSEY NJDOT OFFICE OF MARITIME RESOURCES	
TITLE: BERKELEY SHORES CHANNEL CHANNEL ARRANGEMENT & GEOMETRY PLAN	
PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR BERKELEY SHORES CHANNEL NORTH, BERKELEY SHORES CHANNEL, BERKELEY SHORES CHANNEL SPUR BERKELEY TOWNSHIP / TOMS RIVER TOWNSHIP OCEAN COUNTY, NEW JERSEY	
DRAWN BY: SEF	WSP USA Inc. CERTIFICATION OF AUTHORIZATION NO. 24GA28029800
CHECKED BY: MJM	MICHAEL J. MARANO NEW JERSEY PROFESSIONAL ENGINEER
SCALE: AS SHOWN	DATE: APRIL 2020
DATE: APRIL 2020	NO. 24GE04087500
PROJECT NO.	SHEET 3 OF 13
DWG. NO. PERMIT - 03	

E:\WORK\Berkeley_Shores_Silver_Boj\DWG\Permit\Berkeley_Shores_Complex_Channels.dwg

BERKELEY TOWNSHIP
OCEAN COUNTY



PROJECT LOCATION MAP
SCALE: 1" = 4000'



TYPICAL SECTION: BERKELEY SHORES CHANNEL STA 0+00.0 TO 35+20.6
NOT TO SCALE

NOTES:

1. VERTICAL DATUM IS IN REFERENCE TO MEAN LOW WATER (MLW). MLW IS 0.42 FEET BELOW THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88). INFORMATION OBTAINED FROM NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION (NOAA) DATUM TRANSFORMATION PROGRAM, VERSION 4.0.1.
2. COORDINATES ARE EXPRESSED IN FEET AND REFER TO THE NEW JERSEY STATE PLANE GRID COORDINATE SYSTEM NORTH AMERICAN DATUM OF 1983 (NAD83).
3. EXISTING SHORELINE (MHWL) & DOCK LOCATIONS ARE BASED ON AERIAL IMAGERY AND SHOULD BE CONSIDERED APPROXIMATE.
4. AERIAL IMAGERY SHOWN FROM BING MAPS DATED JUNE-AUGUST, 2019.

LEGEND

- CHANNEL CENTERLINE
- CHANNEL LIMITS
- APPROXIMATE SHORELINE (MHWL)
- APPROXIMATE PIPELINE LOCATION
- EXISTING ROAD/PAVEMENT
- CHANNEL SAMPLE LOCATION
- HISTORIC RESOURCE AND BUFFER

RANGE OF TIDE (FT)
NOT TO SCALE

0.83 HTL (MHHW)
0.68 MHW
0.42 NAVD88
0.34 MTL
0.00 MLW
-0.08 MLLW

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

BARNEGAT BAY

BY / APPR		STATE OF NEW JERSEY NJDOT OFFICE OF MARITIME RESOURCES	
DESCRIPTION		TITLE: BERKELEY SHORES CHANNEL CHANNEL ARRANGEMENT & GEOMETRY PLAN	
REV. DATE		PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR BERKELEY SHORES CHANNEL NORTH, BERKELEY SHORES CHANNEL, BERKELEY SHORES CHANNEL SPUR BERKELEY TOWNSHIP / TOMS RIVER TOWNSHIP OCEAN COUNTY, NEW JERSEY	
STAN LULEWICZ	WSP USA Inc.	DRAWN BY: SEF	CERTIFICATION OF AUTHORIZATION NO. 24GA28029800
	MICHAEL J. MARANO	CHECKED BY: MJM	NO. 24GE04087500
	NEW JERSEY PROFESSIONAL ENGINEER	SCALE: AS SHOWN	PROJECT NO.
	NO. 24GE04087500	DATE: APRIL 2020	SHEET 4 OF 13
			DWG. NO. PERMIT - 04

GBA
9000 Yellow Brick Rd.
Unit D
Baltimore, MD 21237
Phone (410) 682-6595

STAN LULEWICZ



CHANNEL VOLUMES BASED ON JULY 7, 2017
CONDITIONAL SURVEY DATA

BERKELEY SHORES CHANNEL 0+00.0 to 35+20.6	
TEMPLATE (-5 MLW)	750
OVERDEPTH (+6 MLW)	3,380
TOTAL (CY)	4,130

NOTES:

1. VERTICAL DATUM IS IN REFERENCE TO MEAN LOW WATER (MLW). MLW IS 0.42 FEET BELOW THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88). INFORMATION OBTAINED FROM NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION (NOAA) VDATUM DATUM TRANSFORMATION PROGRAM, VERSION 4.0.1.
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 7, 2017 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 BING MAPS AERIAL IMAGERY DATED JUNE-AUGUST, 2019 AND SHOULD BE CONSIDERED APPROXIMATE.

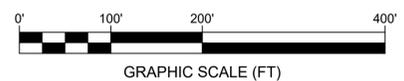
MATCHLINE - SEE SHEET 6

LEGEND

- CHANNEL CENTERLINE
- CHANNEL LIMITS
- - - APPROXIMATE SHORELINE (MHWL)
- - - APPROXIMATE PIPELINE LOCATION
- EXISTING ROAD/PAVEMENT
- # CHANNEL SAMPLE LOCATION
- ⊕ HISTORIC RESOURCE AND BUFFER

0.83 HTL (MHHW)
0.68 MHW
0.42 NAVD88
0.34 MTL
0.00 MLW
-0.08 MLLW

RANGE OF TIDE (FT)
NOT TO SCALE



BARNEGAT BAY

NJDEPWW
Z6-029

GBA
9000 Yellow Brick Rd.
Linthicum, MD 21207
Phone (410) 682-5595

STAN LULEWICZ

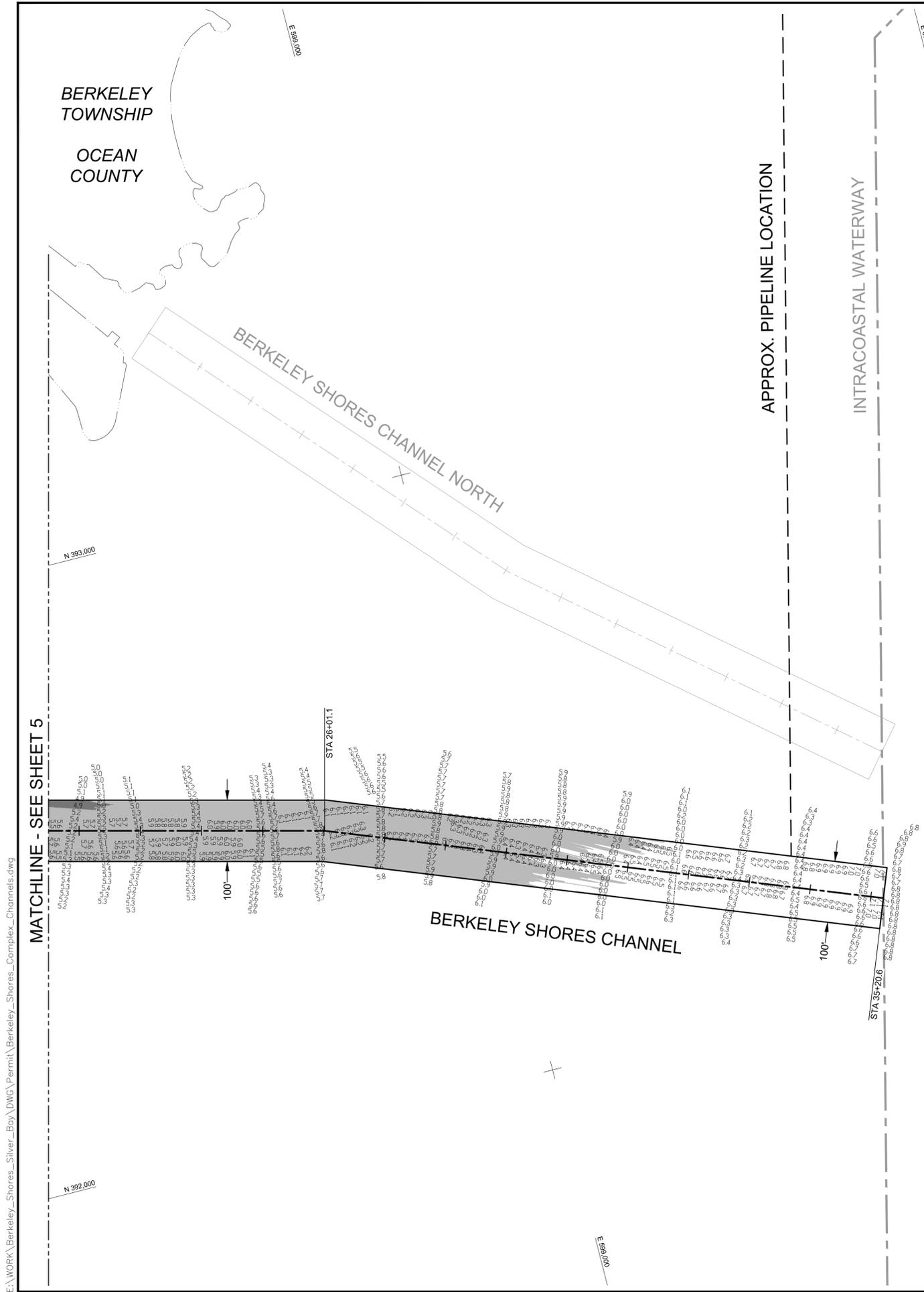
REV.	DATE	DESCRIPTION	BY	APPR.

STATE OF NEW JERSEY
NJDOT OFFICE OF MARITIME RESOURCES

**TITLE: BERKELEY SHORES CHANNEL
CHANNEL BATHYMETRY PLAN**

PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR BERKELEY SHORES CHANNEL NORTH, BERKELEY SHORES CHANNEL, BERKELEY SHORES CHANNEL SPUR BERKELEY TOWNSHIP / TOMS RIVER TOWNSHIP OCEAN COUNTY, NEW JERSEY

DRAWN BY: SEF	WSP USA Inc. CERTIFICATION OF AUTHORIZATION NO. 24GA28029800	PROJECT NO.
CHECKED BY: MJM	MICHAEL J. MARANO NEW JERSEY PROFESSIONAL ENGINEER	SHEET 5 OF 13
SCALE: AS SHOWN	DATE: APRIL 2020	DWG. NO. PERMIT - 05



BARNEGAT BAY



CHANNEL VOLUMES BASED ON JULY 7, 2017
CONDITIONAL SURVEY DATA

BERKELEY SHORES CHANNEL 0+00.0 to 35+20.6	
TEMPLATE (-5 MLW)	750
OVERDEPTH (-6 MLW)	3,360
TOTAL (CY)	4,130

NOTES:

1. VERTICAL DATUM IS IN REFERENCE TO MEAN LOW WATER (MLW). MLW IS 0.42 FEET BELOW THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88). INFORMATION OBTAINED FROM NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION (NOAA) VDATUM DATUM TRANSFORMATION PROGRAM, VERSION 4.0.1.
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 7, 2017 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 BING MAPS AERIAL IMAGERY DATED JUNE-AUGUST, 2019 AND SHOULD BE CONSIDERED APPROXIMATE.

LEGEND

	CHANNEL CENTERLINE
	CHANNEL LIMITS
	APPROXIMATE SHORELINE (MHWL)
	APPROXIMATE PIPELINE LOCATION
	EXISTING ROAD/PAVEMENT
	CHANNEL SAMPLE LOCATION
	HISTORIC RESOURCE AND BUFFER
	AREA PRESENTLY ABOVE TEMPLATE (ABOVE ELEV. -5 MLW)
	AREA PRESENTLY ABOVE OVERDEPTH (BETWEEN ELEV. -6 & -5 MLW)

0.83 HTL (MHHW)	RANGE OF TIDE (FT) NOT TO SCALE
0.68 MHW	
0.42 NAVD88	
0.34 MTL	
0.00 MLW	
-0.08 MLLW	

0' 100' 200' 400'

GRAPHIC SCALE (FT)

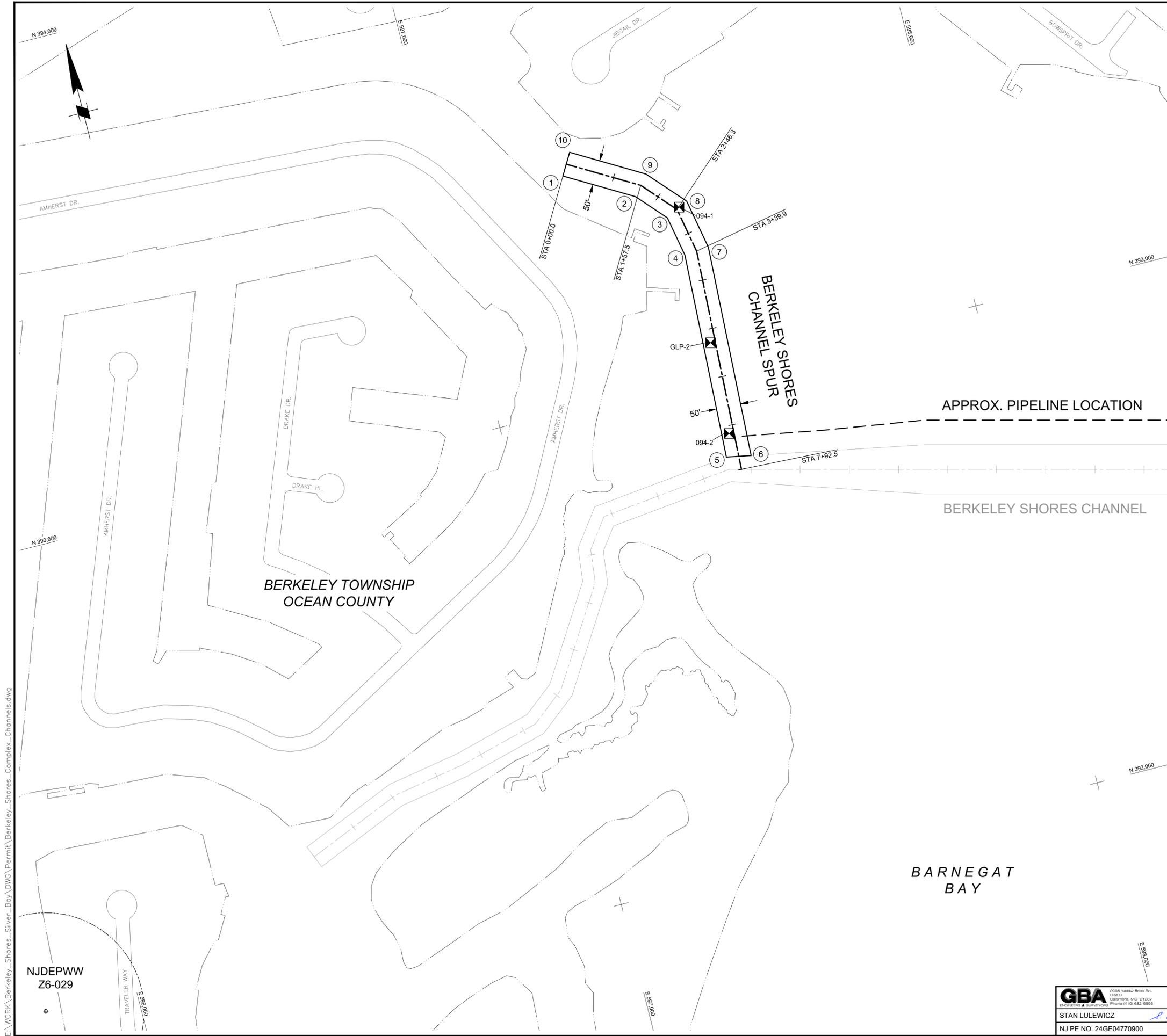
MATCHLINE - SEE SHEET 5

E:\WORK\Berkeley_Shores_Silver_Boj\DWG\Permit\Berkeley_Shores_Complex_Channels.dwg

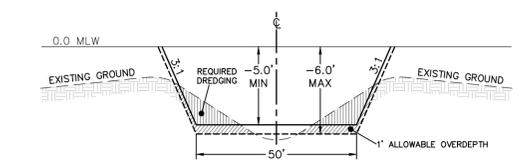
STATE OF NEW JERSEY NJDOT OFFICE OF MARITIME RESOURCES		TITLE: BERKELEY SHORES CHANNEL CHANNEL BATHYMETRY PLAN	
		PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR BERKELEY SHORES CHANNEL NORTH, BERKELEY SHORES CHANNEL, BERKELEY SHORES CHANNEL SPUR BERKELEY TOWNSHIP / TOMS RIVER TOWNSHIP OCEAN COUNTY, NEW JERSEY	
DRAWN BY: SEF CHECKED BY: MJM SCALE: AS SHOWN DATE: APRIL 2020	WSP USA Inc. CERTIFICATION OF AUTHORIZATION NO. 24GA28029800 MICHAEL J. MARANO NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE04087500	PROJECT NO. SHEET 6 OF 13 DWG. NO. PERMIT - 06	BY: [] DATE: [] DESCRIPTION: []

GBA
 9000 Yellow Brick Rd.
 Unit D
 Baltimore, MD 21237
 Phone (410) 682-5595

STAN LULEWICZ
 NJ PE NO. 24GE04770900



PROJECT LOCATION MAP
SCALE: 1" = 4000'



TYPICAL SECTION: BERKELEY SHORES CHANNEL SPUR STA 0+00.0 TO 7+92.5
NOT TO SCALE

NOTES:

1. VERTICAL DATUM IS IN REFERENCE TO MEAN LOW WATER (MLW). MLW IS 0.42 FEET BELOW THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88). INFORMATION OBTAINED FROM NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION (NOAA) VDATUM DATUM TRANSFORMATION PROGRAM, VERSION 4.0.1.
2. COORDINATES ARE EXPRESSED IN FEET AND REFER TO THE NEW JERSEY STATE PLANE GRID COORDINATE SYSTEM NORTH AMERICAN DATUM OF 1983 (NAD83).
3. EXISTING SHORELINE (MHWL) & DOCK LOCATIONS ARE BASED ON AERIAL IMAGERY AND SHOULD BE CONSIDERED APPROXIMATE.
4. AERIAL IMAGERY SHOWN FROM BING MAPS DATED JUNE-AUGUST, 2019.

LEGEND

- CHANNEL CENTERLINE
- CHANNEL LIMITS
- APPROXIMATE SHORELINE (MHWL)
- APPROXIMATE PIPELINE LOCATION
- EXISTING ROAD/PAVEMENT
- CHANNEL SAMPLE LOCATION
- HISTORIC RESOURCE AND BUFFER

RANGE OF TIDE (FT)
NOT TO SCALE

0.83 HTL (MHHW)
0.68 MHW
0.42 NAVD88
0.34 MTL
0.00 MLW
-0.08 MLLW

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

E:\WORK\Berkeley_Shores_Silver_Boj\DWG\Permit\Berkeley_Shores_Complex_Channels.dwg

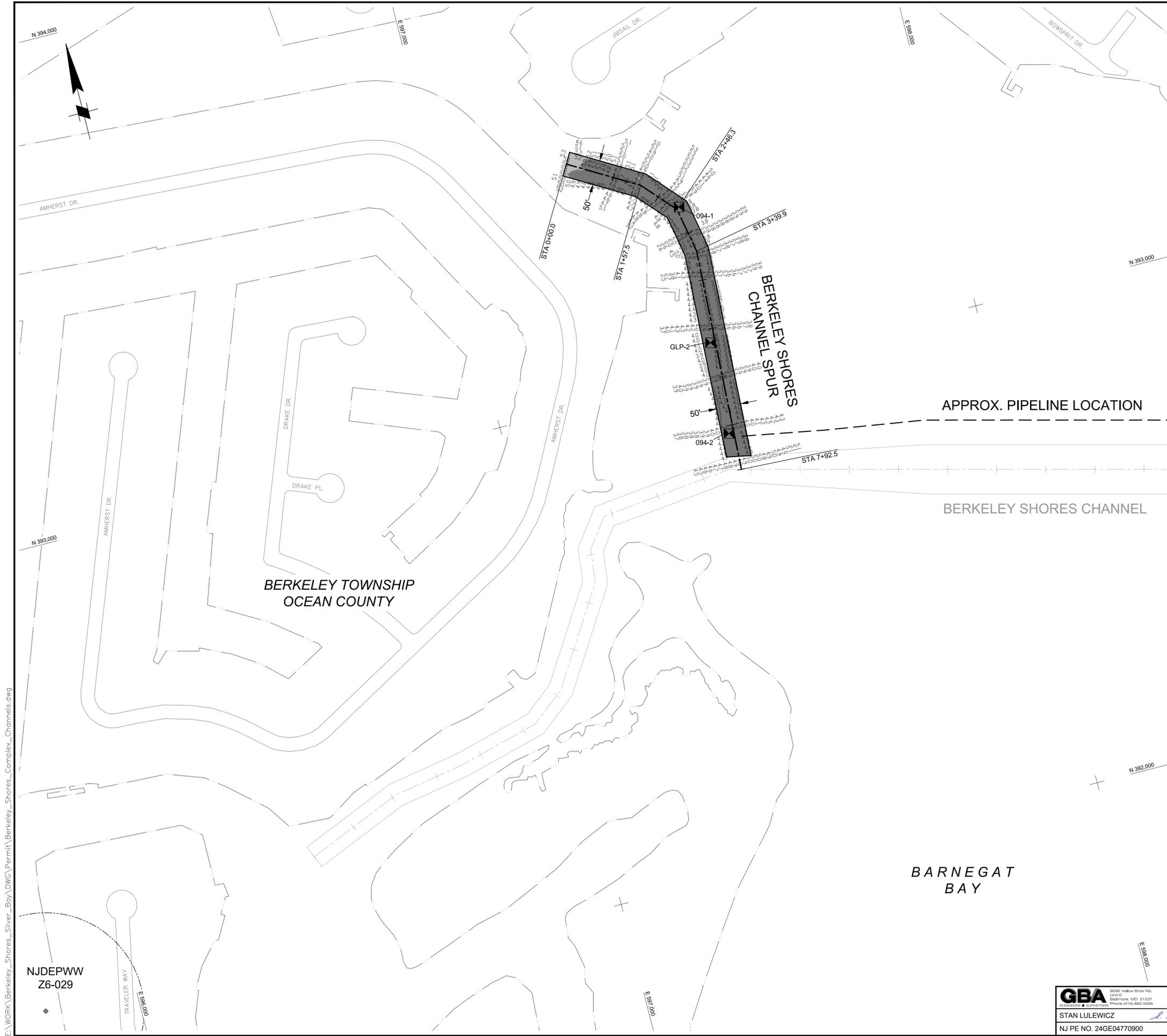
NJDEPWW
Z6-029

GBA
9000 Yellow Brick Rd.
Unit D
Baltimore, MD 21237
Phone (410) 682-6595

STAN LULEWICZ
NJ PE NO. 24GE04770900

REV.	DATE	DESCRIPTION	BY	APPR.

STATE OF NEW JERSEY	
NJDOT OFFICE OF MARITIME RESOURCES	
TITLE: BERKELEY SHORES CHANNEL SPUR CHANNEL ARRANGEMENT & GEOMETRY PLAN	
PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR BERKELEY SHORES CHANNEL NORTH, BERKELEY SHORES CHANNEL, BERKELEY SHORES CHANNEL SPUR BERKELEY TOWNSHIP / TOMS RIVER TOWNSHIP OCEAN COUNTY, NEW JERSEY	
DRAWN BY: SEF	WSP USA Inc. CERTIFICATION OF AUTHORIZATION NO. 24GA28029800
CHECKED BY: MJM	MICHAEL J. MARANO NEW JERSEY PROFESSIONAL ENGINEER
DATE: APRIL 2020	NO. 24GE04087500
PROJECT NO.	SHEET 7 OF 13
DWG. NO. PERMIT - 07	



CHANNEL VOLUMES BASED ON JULY 7, 2017
CONDITIONAL SURVEY DATA

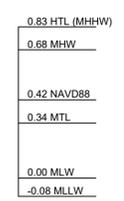
BERKELEY SHORES CHANNEL SPUR 0+00.0 to 7+92.5	
TEMPLATE (-5 MLW)	1,140
OVERDEPTH (-6 MLW)	1,680
TOTAL (CY)	2,820

NOTES:

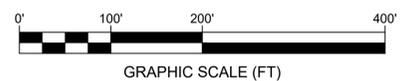
- VERTICAL DATUM IS IN REFERENCE TO MEAN LOW WATER (MLW). MLW IS 0.42 FEET BELOW THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88). INFORMATION OBTAINED FROM NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION (NOAA) VDATUM DATUM TRANSFORMATION PROGRAM, VERSION 4.0.1.
- COORDINATES ARE EXPRESSED IN FEET AND REFER TO THE NEW JERSEY STATE PLANE GRID COORDINATE SYSTEM NORTH AMERICAN DATUM OF 1983 (NAD83).
- CONDITIONAL (CND) SOUNDING DATA SHOWN WAS COLLECTED ON JULY 7, 2017 BY GAHAGAN & BRYANT ASSOCIATES (GBA) AND INDICATES DEPTH BELOW MLW.
- 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.
- EXISTING SHORELINE, DOCK, & PILING LOCATIONS BASED ON BING MAPS AERIAL IMAGERY DATED JUNE-AUGUST, 2019 AND SHOULD BE CONSIDERED APPROXIMATE.

LEGEND

- CHANNEL CENTERLINE
- CHANNEL LIMITS
- APPROXIMATE SHORELINE (MHWL)
- APPROXIMATE PIPELINE LOCATION
- EXISTING ROAD/PAVEMENT
- CHANNEL SAMPLE LOCATION
- HISTORIC RESOURCE AND BUFFER



RANGE OF TIDE (FT)
NOT TO SCALE



GRAPHIC SCALE (FT)

NJDEPWW
Z6-029

BARNEGAT
BAY

BY		APPR		STATE OF NEW JERSEY NJDOT OFFICE OF MARITIME RESOURCES	
DESCRIPTION				TITLE: BERKELEY SHORES CHANNEL SPUR CHANNEL BATHYMETRY PLAN	
REV		DATE		PROJECT NO.	
STAN LULEWICZ		4/1/20		SHEET 8 OF 13	
WSP USA Inc. CERTIFICATION OF AUTHORIZATION NO. 24GA28029800		MICHAEL J. MARANO NEW JERSEY PROFESSIONAL ENGINEER		DWG. NO. PERMIT - 08	
DATE: APRIL 2020		NO. 24GE040770900			

GBA
9000 Yellow Brick Rd.
Linthicum, MD 21217
Phone (410) 682-5595

E:\WORK\Berkeley_Shores_Silver_Boj\DWG\Permit\Berkeley_Shores_Complex_Channels.dwg

BERKELEY SHORES CHANNEL NORTH CENTERLINE COORDINATES		
STATION	NORTHING	EASTING
0+00.0	393,326.8	598,657.6
7+05.3	392,803.8	599,130.9
13+81.9	392,369.5	599,649.6

BERKELEY SHORES CHANNEL NORTH CHANNEL COORDINATES		
POINT	NORTHING	EASTING
1	393,293.2	598,620.5
2	392,767.7	599,096.1
3	392,331.1	599,617.5
4	392,407.8	599,681.7
5	392,839.9	599,165.6
6	393,360.3	598,694.7

BERKELEY SHORES CHANNEL NORTH SAMPLE LOCATION COORDINATES		
BORING	NORTHING	EASTING
GLP-1	393,295.9	598,726.1

BERKELEY SHORES CHANNEL CENTERLINE COORDINATES		
STATION	NORTHING	EASTING
0+00.0	392,248.2	596,418.2
2+08.3	392,328.9	596,610.2
3+56.5	392,354.7	596,756.2
5+27.3	392,398.6	596,921.2
6+13.9	392,452.8	596,988.7
8+43.0	392,646.9	597,110.3
9+10.5	392,714.0	597,117.9
9+83.3	392,772.6	597,161.1
12+55.1	392,802.4	597,431.3
26+01.1	392,469.6	598,735.5
35+20.6	392,137.6	599,593.0

BERKELEY SHORES CHANNEL CHANNEL COORDINATES		
POINT	NORTHING	EASTING
1	392,225.1	596,427.8
2	392,304.8	596,617.3
3	392,330.2	596,761.6
4	392,375.8	596,932.8
5	392,435.9	597,007.7
6	392,638.5	597,134.5
7	392,704.5	597,142.0
8	392,749.0	597,174.7
9	392,777.0	597,429.5
10	392,655.0	597,806.5
11	392,421.9	598,720.2
12	392,090.9	599,574.9
13	392,184.2	599,611.0
14	392,517.3	598,750.8
15	392,751.9	597,831.2
16	392,827.7	597,433.1
17	392,796.3	597,147.4
18	392,723.4	597,093.9
19	392,655.4	597,086.1
20	392,469.6	596,969.8
21	392,421.4	596,909.7
22	392,379.1	596,750.8
23	392,353.0	596,603.1
24	392,271.2	596,408.5

BERKELEY SHORES CHANNEL SAMPLE LOCATION COORDINATES		
BORING	NORTHING	EASTING
093-1	392,610.9	597,112.1
093-2	392,778.6	597,274.8
GLP-3	392,760.5	597,127.1

BERKELEY SHORES CHANNEL HISTORIC RESOURCE COORDINATES			
POINT	NORTHING	EASTING	BUFFER RADIUS
NJDEPWW-26-029	392,079.5	595,811.2	200'

BERKELEY SHORES CHANNEL SPUR CENTERLINE COORDINATES		
STATION	NORTHING	EASTING
0+00.0	393,485.2	597,263.4
1+57.5	393,406.0	597,399.6
2+46.3	393,340.1	597,459.2
3+39.9	393,248.3	597,476.9
7+92.5	392,796.1	597,455.7

BERKELEY SHORES CHANNEL SPUR CHANNEL COORDINATES		
POINT	NORTHING	EASTING
1	393,463.6	597,250.9
2	393,386.4	597,383.7
3	393,328.5	597,436.0
4	393,246.5	597,451.8
5	392,827.6	597,432.1
6	392,818.5	597,481.8
7	393,250.1	597,502.0
8	393,351.7	597,482.4
9	393,425.7	597,415.6
10	393,506.8	597,276.0

BERKELEY SHORES CHANNEL SPUR SAMPLE LOCATION COORDINATES		
BORING	NORTHING	EASTING
094-1	393,343.7	597,464.4
094-2	392,872.9	597,449.3
GLP-2	393,060.9	597,458.3

NOTES:

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

**STATE OF NEW JERSEY
NJDOT OFFICE OF MARITIME RESOURCES**

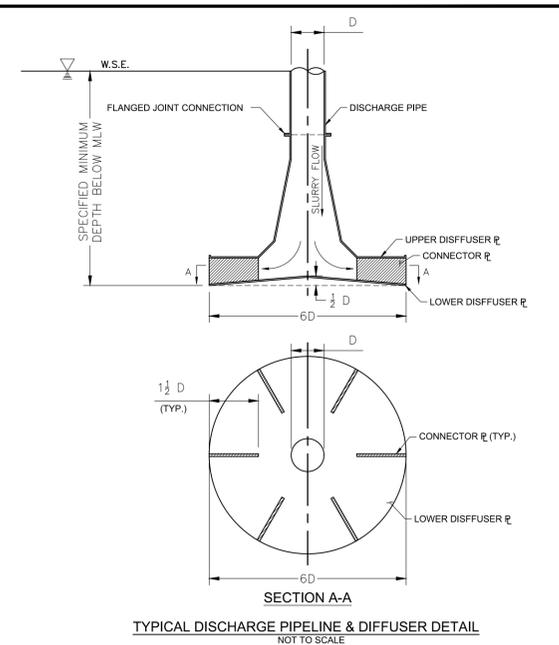
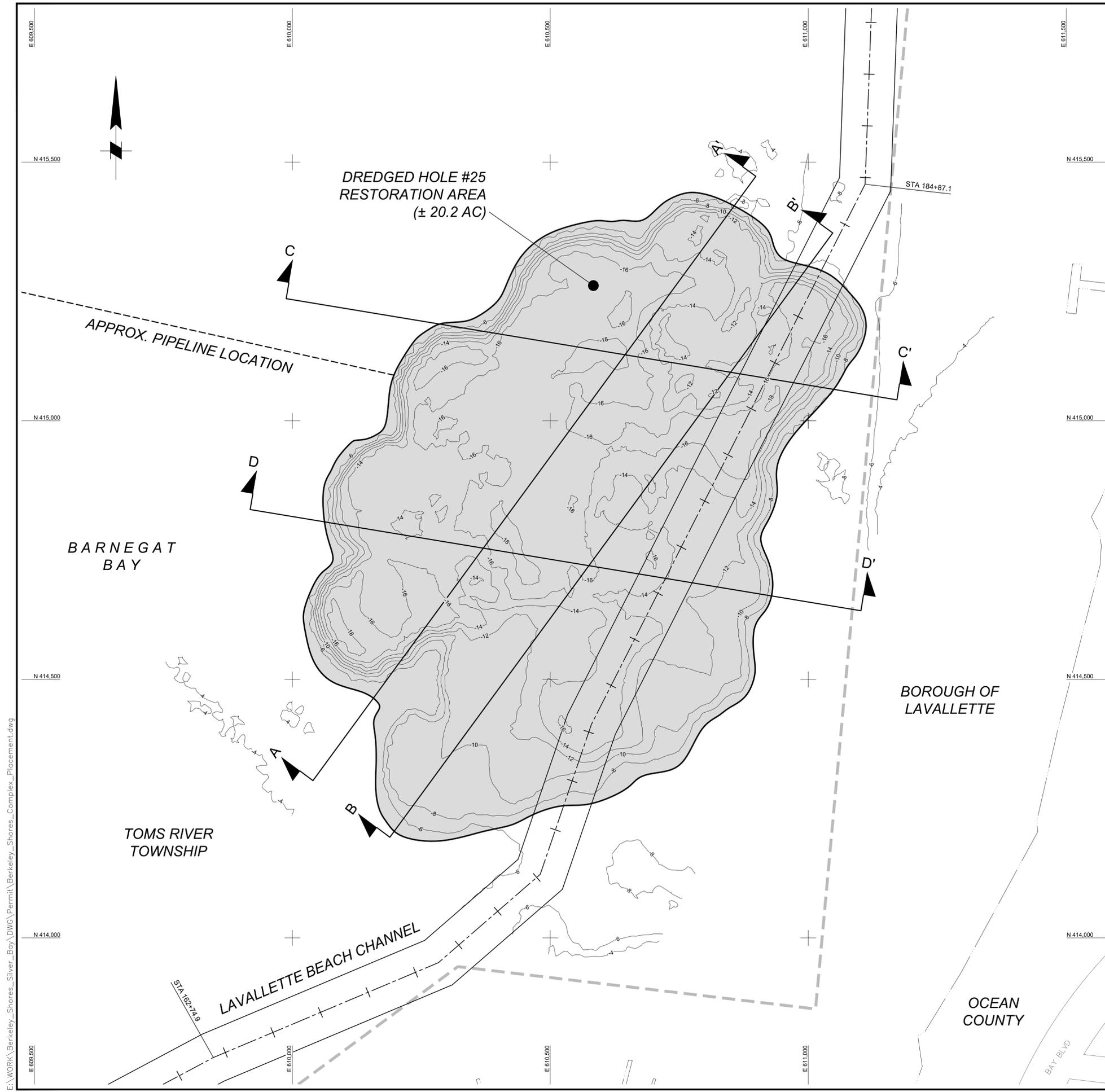
TITLE: CHANNEL GEOMETRY, SAMPLING LOCATION, & HISTORIC RESOURCE COORDINATE TABLES

PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR BERKELEY SHORES CHANNEL NORTH, BERKELEY SHORES CHANNEL SPUR BERKELEY TOWNSHIP / TOMS RIVER TOWNSHIP OCEAN COUNTY, NEW JERSEY

DRAWN BY: SEF	WSP USA Inc. CERTIFICATION OF AUTHORIZATION NO. 24GA28029800	PROJECT NO.
CHECKED BY: MJM	MICHAEL J. MARANO NEW JERSEY PROFESSIONAL ENGINEER	SHEET 9 OF 13
SCALE: AS SHOWN	DATE: APRIL 2020	DWG. NO. PERMIT - 09



REV.	DATE	DESCRIPTION	BY	APPR.



DREDGED HOLE #25 STORAGE VOLUMES (JANUARY 21, 2020)	
ELEVATION (MLW)	STORAGE (CY)
-19 to -18	100
-18 to -16	7,300
-16 to -14	25,100
-14 to -12	40,600
-12 to -10	49,900
-10 to -8	55,600
-8 to -6	59,300
TOTAL (CY)	237,900

- NOTES:**
- VERTICAL DATUM IS IN REFERENCE TO MEAN LOW WATER (MLW). MLW IS 0.34 FEET BELOW THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88). INFORMATION OBTAINED FROM NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION (NOAA) VDATUM DATUM TRANSFORMATION PROGRAM, VERSION 4.0.
 - COORDINATES ARE EXPRESSED IN FEET AND REFER TO THE NEW JERSEY STATE PLANE GRID COORDINATE SYSTEM NORTH AMERICAN DATUM OF 1983 (NAD83).
 - EXISTING SHORELINE (MHWL), DOCK, & PILING LOCATIONS BASED ON GOOGLE AERIAL IMAGERY DATED JULY 2018 AND SHOULD BE CONSIDERED APPROXIMATE.
 - DREDGED HOLE #25 EXISTING CONTOUR DATA SHOWN WAS COLLECTED ON JANUARY 21, 2020 BY GAHAGAN & BRYANT ASSOCIATES (GBA).
 - 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.

LEGEND

- 0.67 HTL (MHHW)
- 0.50 MHW
- 0.34 NAVD88
- 0.26 MTL
- 0.00 MLW
- 0.08 MLLW
- EXISTING CHANNEL CENTERLINE
- EXISTING CHANNEL LIMIT
- APPROXIMATE SHORELINE (MHWL)
- APPROXIMATE PIPELINE LOCATION
- EXISTING ROAD/PAVEMENT
- EXISTING 2' CONTOUR (DREDGED HOLE #25)
- MUNICIPALITY LIMIT
- APPROX. MATERIAL PLACEMENT LIMIT (ELEV. -6 TO -8 MLW)

RANGE OF TIDE (FT) NOT TO SCALE

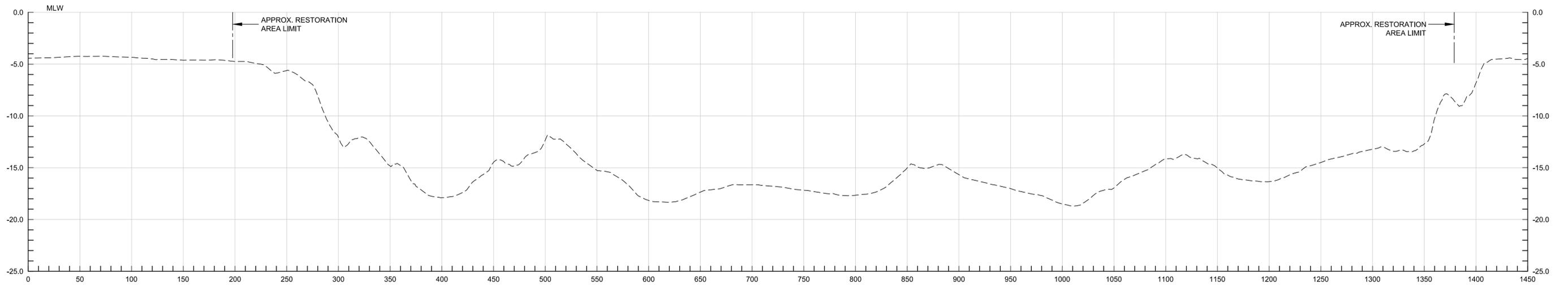
GRAPHIC SCALE (FT)

STATE OF NEW JERSEY NJDOT OFFICE OF MARITIME RESOURCES		TITLE: DREDGED HOLE #25 PLACEMENT PLAN	
		PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR BERKELEY SHORES CHANNEL NORTH, BERKELEY SHORES CHANNEL, BERKELEY SHORES CHANNEL SPUR BERKELEY TOWNSHIP / TOMS RIVER TOWNSHIP OCEAN COUNTY, NEW JERSEY	
DRAWN BY: SEF CHECKED BY: MJM SCALE: AS SHOWN DATE: APRIL 2020	WSP USA Inc. CERTIFICATION OF AUTHORIZATION NO. 24GA28029800 MICHAEL J. MARANO NEW JERSEY PROFESSIONAL ENGINEER	PROJECT NO. SHEET 10 OF 13 DWG. NO. PERMIT - 10	BY APPR. DESCRIPTION REV. DATE:

GBA
 9000 Yellow Brick Rd.
 Unit D
 Baltimore, MD 21237
 Phone (410) 682-5595

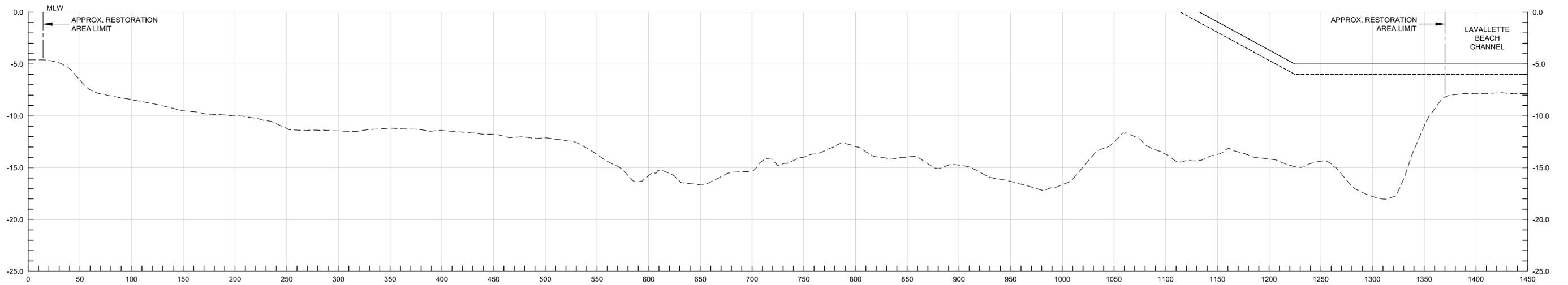
STAN LULEWICZ
[Signature]
 NJ PE NO. 24GE04770900

E:\WORK\Berkeley_Shores_Silver_Boj\DWG\Permit\Berkeley_Shores_Complex_Placement.dwg



SECTION A-A'

H SCALE : 1" = 50'
V SCALE : 1" = 5'



SECTION B-B'

H SCALE : 1" = 50'
V SCALE : 1" = 5'

LEGEND

- EXISTING GROUND (JANUARY 21, 2020)
- EXISTING CHANNEL TEMPLATE
- - - EXISTING CHANNEL OVERDEPTH TEMPLATE
- RESTORATION AREA LIMIT

NOTES:

1. VERTICAL DATUM IS IN REFERENCE TO MEAN LOW WATER (MLW). MLW IS 0.34 FEET BELOW THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88). INFORMATION OBTAINED FROM NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION (NOAA) VDATUM DATUM TRANSFORMATION PROGRAM, VERSION 4.0.
2. 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.

0.67 HTL (MHHW)
0.50 MHW
0.34 NAVD88
0.26 MTL
0.00 MLW
-0.08 MLLW

RANGE OF TIDE (FT)
NOT TO SCALE

<p align="center">STATE OF NEW JERSEY NJDOT OFFICE OF MARITIME RESOURCES</p>		<p align="center">TITLE: DREDGED HOLE #25 CROSS SECTIONS</p>	
		<p>PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR BERKELEY SHORES CHANNEL NORTH, BERKELEY SHORES CHANNEL, BERKELEY SHORES CHANNEL SPUR BERKELEY TOWNSHIP / TOMS RIVER TOWNSHIP OCEAN COUNTY, NEW JERSEY</p>	
<p>DRAWN BY: SEF</p>	<p>WSP USA Inc. CERTIFICATION OF AUTHORIZATION NO. 24GA28029800</p>	<p>PROJECT NO.</p>	<p>SHEET 11 OF 13</p>
<p>CHECKED BY: MJM</p>	<p>MICHAEL J. MARANO NEW JERSEY PROFESSIONAL ENGINEER</p>	<p>DATE: APRIL 2020</p>	<p>DWG. NO. PERMIT - 11</p>
<p>SCALE: AS SHOWN</p>	<p>NO. 24GE04087500</p>		

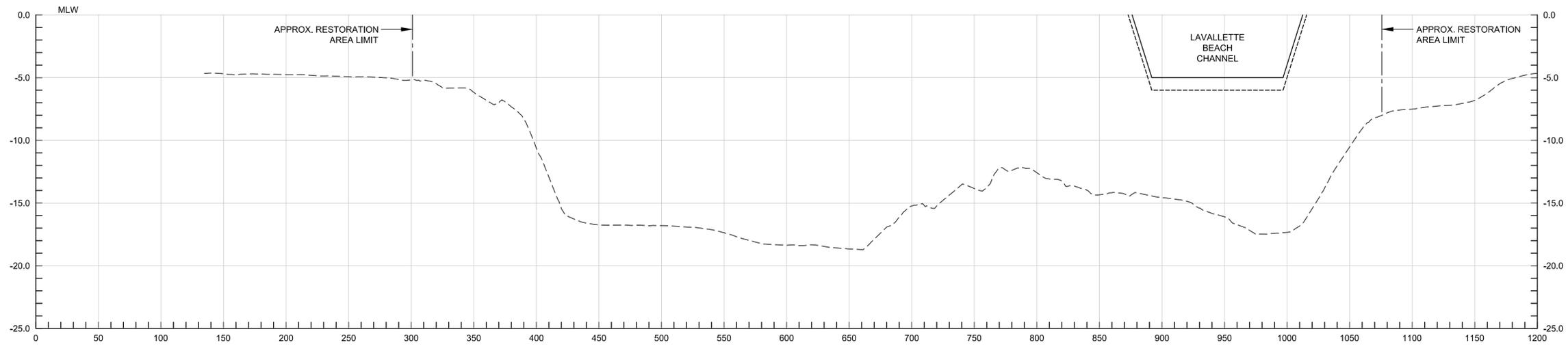
GBA
9008 Yellow Brick Rd.
Linthicum, MD 21217
Phone (410) 682-6595

STAN LULEWICZ *S. Lulewicz*

NJ PE NO. 24GE04770900

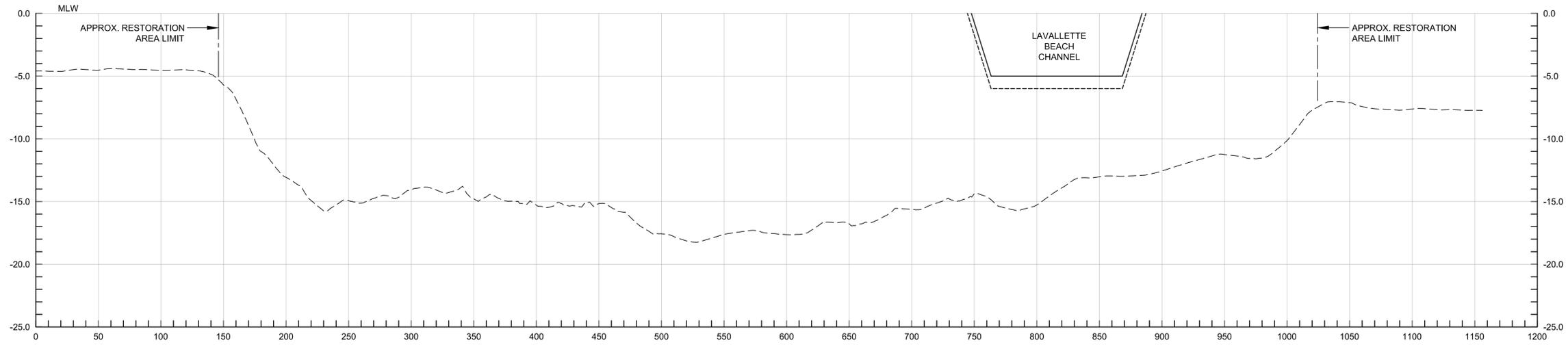
REV.	DATE	DESCRIPTION	BY	APPR.

E:\WORK\Berkeley_Shores_Silver_Boj\DWG\Permit\Berkeley_Shores_Complex_Placement.dwg



SECTION C-C'

H SCALE : 1" = 50'
V SCALE : 1" = 5'



SECTION D-D'

H SCALE : 1" = 50'
V SCALE : 1" = 5'

LEGEND

- EXISTING GROUND (JANUARY 21, 2020)
- EXISTING CHANNEL TEMPLATE
- EXISTING CHANNEL OVERDEPTH TEMPLATE
- - - - - RESTORATION AREA LIMIT

NOTES:

1. VERTICAL DATUM IS IN REFERENCE TO MEAN LOW WATER (MLW). MLW IS 0.34 FEET BELOW THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88). INFORMATION OBTAINED FROM NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION (NOAA) VD DATUM TRANSFORMATION PROGRAM, VERSION 4.0.
2. 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.

0.67 HTL (MHHW)
0.50 MHW
0.34 NAVD88
0.26 MTL
0.00 MLW
-0.08 MLLW

RANGE OF TIDE (FT)
NOT TO SCALE

STATE OF NEW JERSEY	
NJDOT OFFICE OF MARITIME RESOURCES	
TITLE: DREDGED HOLE #25 CROSS SECTIONS	
PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR BERKELEY SHORES CHANNEL NORTH, BERKELEY SHORES CHANNEL, BERKELEY SHORES CHANNEL SPUR BERKELEY TOWNSHIP / TOMS RIVER TOWNSHIP OCEAN COUNTY, NEW JERSEY	
DRAWN BY: SEF	WSP USA Inc. CERTIFICATION OF AUTHORIZATION NO. 24GA28029800
CHECKED BY: MJM	MICHAEL J. MARANO NEW JERSEY PROFESSIONAL ENGINEER
SCALE: AS SHOWN	DATE: APRIL 2020
PROJECT NO.	SHEET 12 OF 13
DWG. NO. PERMIT - 12	

GBA
9008 Yellow Brick Rd.
Unit D
Baltimore, MD 21237
Phone (410) 682-6595

STAN LULEWICZ
NJ PE NO. 24GE04770900

REV.	DATE	DESCRIPTION	BY	APPR.

E:\WORK\Berkeley_Shores_Silver_Boj\DWG\Permit\Berkeley_Shores_Complex_Placement.dwg



BERKELEY TOWNSHIP
OCEAN COUNTY

GOOD LUCK POINT
MARSH RESTORATION
LIMIT

GLP-01
(± 6.4 AC)

BAYVIEW AVE

GLP-02
(± 5.3 AC)

APPROX. PIPELINE LOCATION

GLP-03A
(± 1.3 AC)

GLP-04
(± 2.7 AC)

BARNEGAT BAY

GLP-03B
(± 1.9 AC)

GOOD LUCK POINT
MARSH RESTORATION
LIMIT

GOOD LUCK POINT
MARSH RESTORATION
LIMIT

DORRANCE DR.

BEACH AVE.

PIER AVE.

GOOD LUCK POINT MARSH STORAGE VOLUMES (CY)	
AREA	STORAGE (CY)
GLP-01	3,522
GLP-02	3,304
GLP-03A	911
GLP-03B	974
GLP-04	1,411
TOTAL (CY)	10,122

- NOTES:
- COORDINATES ARE EXPRESSED IN FEET AND REFER TO THE NEW JERSEY STATE PLANE GRID COORDINATE SYSTEM NORTH AMERICAN DATUM OF 1983 (NAD83).
 - AERIAL IMAGERY SHOWN FROM BING MAPS DATED JUNE-AUGUST, 2019.
 - GOOD LUCK POINT (GLP) MARSH AREAS AND ASSOCIATED STORAGE VOLUMES FROM "E. B. FORSYTHE RESILIENCY PROJECT #37C MARSH ENHANCEMENT AND TELEPHONE POLE ARRAY REMOVAL PROJECT" (C-301: GOOD LUCK POINT PROPOSED CONDITIONS PLAN) PREPARED BY AMEC FOSTER WHEELER & EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC. PBC, PROJECT NO. 62943.02, DATED NOVEMBER 2017.



BY		APPR			
DESCRIPTION					
REV		DATE			

STATE OF NEW JERSEY
NJDOT OFFICE OF MARITIME RESOURCES

TITLE: GOOD LUCK POINT MARSH PLACEMENT PLAN

PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR BERKELEY SHORES CHANNEL NORTH, BERKELEY SHORES CHANNEL, BERKELEY SHORES CHANNEL SPUR BERKELEY TOWNSHIP / TOMS RIVER TOWNSHIP OCEAN COUNTY, NEW JERSEY

DRAWN BY: SEF	WSP USA Inc. CERTIFICATION OF AUTHORIZATION NO. 24GA28029800	PROJECT NO.	
CHECKED BY: MJM	MICHAEL J. MARANO NEW JERSEY PROFESSIONAL ENGINEER	SHEET 13 OF 13	
SCALE: AS SHOWN	NO. 24GE04087500	DWG. NO. PERMIT - 13	
DATE: APRIL 2020			

GBA
9008 Yellow Brick Rd.
Linthicum, MD 21227
Phone (410) 682-5595

STAN LULEWICZ
NJ PE NO. 24GE04770900

E:\WORK\Berkeley_Shores_Silver_Boj\DWG\Permit\Berkeley_Shores_Complex_Placement.dwg