

**Appendix F**

**ESA Section 7 Consultation (USFWS)**



United States Department of the Interior  
FISH AND WILDLIFE SERVICE

New Jersey Field Office  
4 East Jimmie Leeds Road, Unit 4  
Galloway, New Jersey 08205  
Tel: 609-646-9310

<http://www.fws.gov/northeast/njfieldoffice>



In reply refer to: 18-CPA-0110

To: Edward E. Bonner, Chief  
Regulatory Branch, Philadelphia District  
U.S. Army Corps of Engineers  
Philadelphia, Pennsylvania 19107-3390  
Fax #: (215) 656-6724  
ATTN: Dr. James Boyer

FEB 12 2018

Application No.: CENAP-OP-R-2015-1060

Applicant: City of Somers Point

Location: Higbee Marina (Ship Channel) and Patcong Creek (beneficial reuse of material)  
Atlantic County, New Jersey

Dear Mr. Bonner:

The U.S. Fish and Wildlife Service (Service) has reviewed the subject permit application and is providing the following comments under the authority of the Fish and Wildlife Coordination Act (48 Stat. 401; 16 U.S.C. 661 *et seq.*) and the Endangered Species Act (87 Stat. 884, as amended; 16 U.S.C. 1531 *et seq.*) (ESA).

The Service has determined that there are no federally listed species within or nearby the project areas; therefore, the project will have no adverse effects pursuant to the ESA. Compliance with Section 106 of the National Historical Preservation Act will be provided separately by the staff of Ms. Colleen Sculley at our Regional Office in Hadley, Massachusetts. The Service's New Jersey Field Office has no objection to issuance of a Department of the Army permit.

The Service will concur with the comments and recommendations provided by the National Marine Fisheries Service (NMFS) and will have no objection to issuance of a Department of the Army permit for the proposed project, provided that all special conditions recommended by the NMFS are incorporated.

Reviewing Biologist:

Assistant Supervisor:



**US Army Corps  
of Engineers**  
Philadelphia District

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

# Public Notice

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Public Notice No.	Date
<b>CENAP-OP-R-2015-1060-24</b>	<b>FEB 02 2018</b>

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Application No.	File No.
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In Reply Refer to:  
**REGULATORY BRANCH**

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

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

**APPLICANT:** City of Somers Point  
1 West New Jersey Avenue  
Somers Point, New Jersey 08244

**AGENT:** Mott Associates, LLC  
3122 Fire Road  
Egg Harbor Township, New Jersey 08234

**WATERWAY:** Ship Channel (marina) and Patcong Creek (reuse of dredged material)

**LOCATION:**

Marina (docks/dredging): Decimal Latitude: 39.311358° N; Longitude: -74.592378°  
Beneficial Reuse (west end): Decimal Latitude: 39.316000° N; Longitude: -74.628042°  
(east end): Decimal Latitude: 39.314980° N; Longitude: -74.622846°

The proposed site of the docks and dredging project is the Higbee Marina, owned by the City of Somers Point. It is located in and along Ship Channel, approximately 2,000 feet northeast of the Route 52 bridge, at 198 Higbee Avenue, Block 1612, Lots 2 and 2.01, in the City of Somers Point, Atlantic County, New Jersey.

The proposed site for beneficial reuse of dredged material is situated along the north side of Somers Point – Mays Landing Road (County Road 559), between the Patcong Creek bridge on the west, and the Garden State Parkway on the east. This location is also within the City of Somers Point.

**ACTIVITY:**

The applicant proposes to upgrade a marina facility by removing dock structures, constructing new docks, and performing dredging. There is an existing "U-shaped" dock arrangement, which will be removed. That includes the following structures: a) 225x5' and 133x5' docks perpendicular to shore; b) 18x30' (with building) and 37x5' docks parallel to shore; and c) 96 existing pilings. In their place, the applicant would construct the following new structures:

72x6' fixed dock perpendicular to shore  
18x30' (with building) and 13x6' fixed docks parallel to shore  
130x6' and 214x6' floating docks perpendicular to shore  
Seven (7) dock "fingers": five 25x3'; one 20x8'; one 25x6'.  
48 new pilings

The project site contains mapped shellfish habitat. As noted on the applicant's project plans, "All structures to be made of non-polluting materials." There would be a total of 22 boat slips. Two would be designated for a water taxi and a fishing excursion boat. The remainder would be for transient boaters.

Dredging would be by mechanical (bucket) method. A maximum total of 6,896 cubic yards (CY) of material would be dredged from a maximum area of approximately 0.9 acre, to a maximum depth of six (6) feet below mean low water. The dredged material has been characterized as approximately 40 percent sand, with the remainder fine-grained or silty in nature. Dredge material would be moved to the staging area in the adjacent City-owned parking lot using a long reach excavator. It would be contained by Jersey barriers and silt fencing.

Following dewatering, 2,411 CY of the dredged material would be loaded into lined dump trucks and transported to the beneficial reuse site. It would be used to construct an embankment or berm along the north side of Somers Point – Mays Landing Road. The berm would have a 1-foot wide top (at various elevations) and a 2:1 slope (H:V). The remaining 4,485 CY of dredged material would be mixed with dry Portland cement prior to being loaded and transported to the beneficial reuse site. It would be used for structural fill to raise the parking lot at Gateway Marina along Patcong Creek by approximately 3.5 feet above the existing grade.

The top of the embankment along the road would be at 5-6' NAVD 88, while the top of the berm along the parking lot would be at 8' NAVD 88. The embankment/berm would be planted with native vegetation. While the proposed fill would not impact delineated wetlands adjacent to the road and parking lot, some portions (totaling 0.11 acre) would be placed below the elevation of the high tide line (HTL), which, in the absence of wetlands, represents the landward limit of the Corps' Section 404 jurisdiction in tidal waters. Of the total volume of material to be placed, approximately 36 CY would be placed below the HTL for the road embankment. Approximately 673 CY would be placed below the existing HTL to raise the parking lot and construct that berm.

The applicant (City of Somers Point) has been approved for federal funding for the proposed work from the U.S. Department of the Interior through two separate grant programs:

Federal Aid  
Channel  
SOMERS POINT  
SITPO  
ENV.  
COMPLIANCE

The first grant, for the marina improvements, is from the Boating Infrastructure Grant Program, which is administered by the U.S. Fish and Wildlife Service. This money is being granted to the New Jersey Department of Transportation, Office of Maritime Resources, through their Marina Infrastructure Improvement Program. The City of Somers Point is their sub-grantee.

The second grant, for the beneficial reuse of dredged material, is from the National Fish and Wildlife Foundation through their Hurricane Sandy Coastal Resiliency Competitive Grant Program.

The State of New Jersey, Department of Environmental Protection (NJDEP) has issued a Waterfront Development Permit and Water Quality Certificate for the proposed marina work, including docks, dredging and placement of the dredged material for beneficial reuse as described above on January 17, 2018 (NJDEP File No. 0121-17-0002.1). They also issued a Coastal General Permit 24 and a Flood Hazard Area Individual Permit for the beneficial reuse project on January 12, 2018 (NJDEP File No. 0121-17-0003.1, 3.2).

The applicant has stated the following as their position with regard to (a) avoidance and minimization of impacts to aquatic resources, and (b) compensatory mitigation for such impacts:

“Impacts to the waters of the United States are minimized by proposing an embankment with the maximum slope that the dredge material will remain stable and by using native plantings to replace existing invasive species. In addition, the proposed embankment was moved as far away from the waters of the United States as feasible. Moving the proposed embankment so that waters of the United States are not affected creates adverse conditions for the County Road (as per County Engineer) and makes the existing marina parking lot more difficult for vehicles to navigate. NJDEP and the County also would not permit a retaining wall for the project.

Compensatory mitigation should not be required because the impacts to the waters of the United States are minimal since the area of the impacts are already actively disturbed (vegetation is frequently cut) with invasive species. The proposed area of the impacts will be planted with native vegetation to support native plant and animal species.”

**PURPOSE:** The applicant has provided a two-part project purpose statement as quoted below:

“The purpose of the proposed project is to encourage transient boaters to Somers Point.”

“The purpose of the resiliency embankment is the beneficial reuse of dredged material to reduce nuisance flooding along Somers Point – Mays Landing Road and create an environmental uplift by removing invasive, non-native plant species with native pollinator species.”

A preliminary review of this application indicates that species listed under the Endangered Species Act (ESA) may be present in the action area. There is no designated or proposed critical habitat for such species in the action area. The Philadelphia District of the Corps of Engineers will forward this public notice to the U.S. Fish and Wildlife Service and the National Marine

Fisheries Service. As noted above, the U.S. Department of the Interior is providing federal funding for this project through two separate grant programs. The U.S. Fish and Wildlife Service (Service) is acting as the lead federal agency responsible for compliance and consultation under Section 7 of the ESA, as amended. The Corps of Engineers will cooperate with the Service and other agencies regarding potential impacts to federally listed species. ESA Section 7 consultation will be concluded prior to the final decision on this permit application.

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 (or modification) 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 any Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

Comments on the proposed work should be submitted, in writing, within 15 days to the District Engineer, U.S. Army Corps of Engineers, Philadelphia District, Wanamaker Building, 100 Penn Square East, Philadelphia, Pennsylvania 19107-3390.

The permit area may yield resources eligible for inclusion in the National Register of Historic Places (NHPA). The New Jersey Historic Preservation Office has rendered the opinion that the project does not constitute an encroachment upon known historic resources in the area. As the lead federal agency, the U.S. Fish and Wildlife Service (Service) will make a determination as to whether the proposed project is an undertaking that could affect historic resources, and they will complete any necessary compliance activities associated with Section 106 of the NHPA.

The Magnuson-Stevens Fishery Conservation and Management Act (MSFCMA) requires all federal agencies to consult with the NOAA Fisheries 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. As noted above, the U.S. Fish and Wildlife Service (Service) is providing federal funding for the marina project. They have designated their grantee administrator, the New Jersey Department of Transportation, to act on their behalf for any necessary compliance and consultation under the MSFCMA. The Corps of Engineers will cooperate with the Service and other agencies regarding potential impacts to managed species. 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.

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

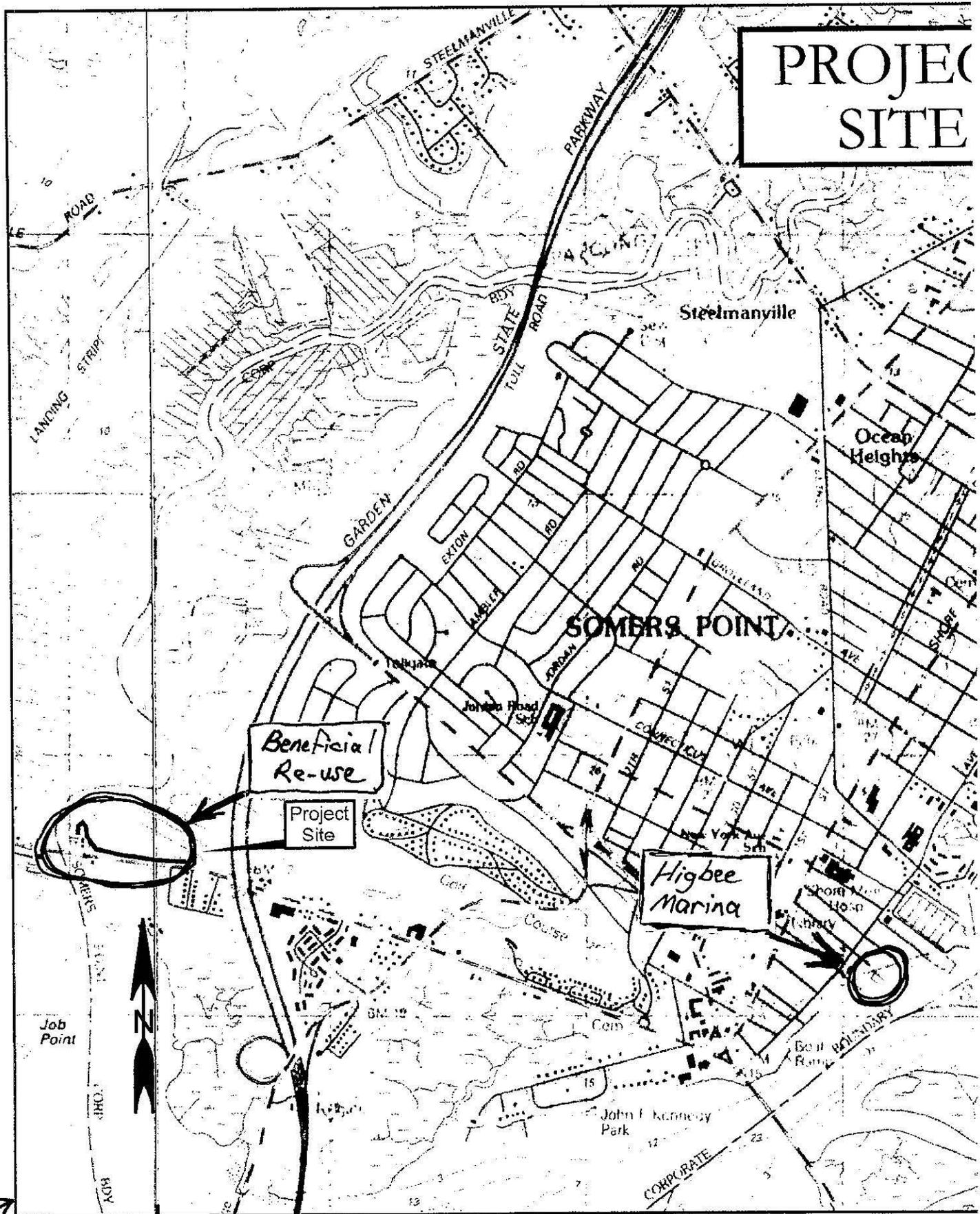
The evaluation of the impact of the work described above on the public interest will include application of the guidelines promulgated by the Administrator, U.S. Environmental Protection Agency, under authority of Section 404(b) of the Clean Water Act.

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

Additional information concerning this permit application may be obtained by calling James Boyer at (215) 656-5826, by electronic mail to [James.N.Boyer@usace.army.mil](mailto:James.N.Boyer@usace.army.mil), or by writing to this office at the above address.



Edward E. Bonner  
Chief, Regulatory Branch



**PROJECT  
SITE**

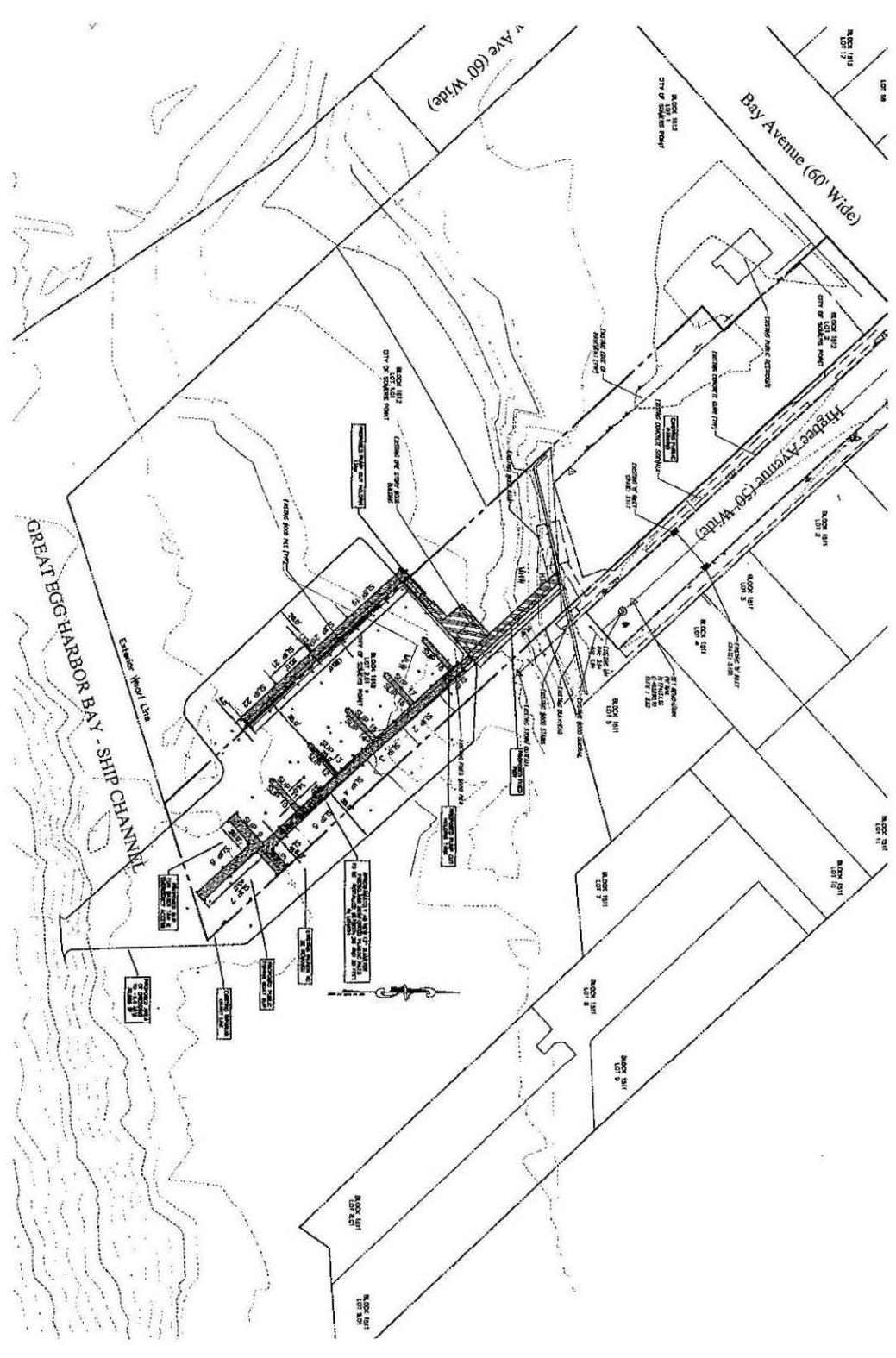
*Beneficial  
Re-use*

**Project  
Site**

*Higbee  
Marina*

USGS Quadrangle "Ocean City, NJ"

# Location Map



Notes: 1. All Elevations are in NAVD 88 Datum  
 2. All Structures to be made of non-polluting materials

**SYMBOLS**

(Symbol)	Mooring
(Symbol)	Structure
(Symbol)	Proposed Structure
(Symbol)	Existing Structure
(Symbol)	Proposed Mooring
(Symbol)	Existing Mooring
(Symbol)	Proposed Dock
(Symbol)	Existing Dock
(Symbol)	Proposed Pier
(Symbol)	Existing Pier
(Symbol)	Proposed Wharf
(Symbol)	Existing Wharf
(Symbol)	Proposed Quay
(Symbol)	Existing Quay
(Symbol)	Proposed Basin
(Symbol)	Existing Basin
(Symbol)	Proposed Basin Wall
(Symbol)	Existing Basin Wall
(Symbol)	Proposed Basin Floor
(Symbol)	Existing Basin Floor
(Symbol)	Proposed Basin Deck
(Symbol)	Existing Basin Deck
(Symbol)	Proposed Basin Structure
(Symbol)	Existing Basin Structure
(Symbol)	Proposed Basin Foundation
(Symbol)	Existing Basin Foundation
(Symbol)	Proposed Basin Pier
(Symbol)	Existing Basin Pier
(Symbol)	Proposed Basin Wharf
(Symbol)	Existing Basin Wharf
(Symbol)	Proposed Basin Quay
(Symbol)	Existing Basin Quay
(Symbol)	Proposed Basin Basin
(Symbol)	Existing Basin Basin
(Symbol)	Proposed Basin Wall
(Symbol)	Existing Basin Wall
(Symbol)	Proposed Basin Floor
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(Symbol)	Proposed Basin Foundation
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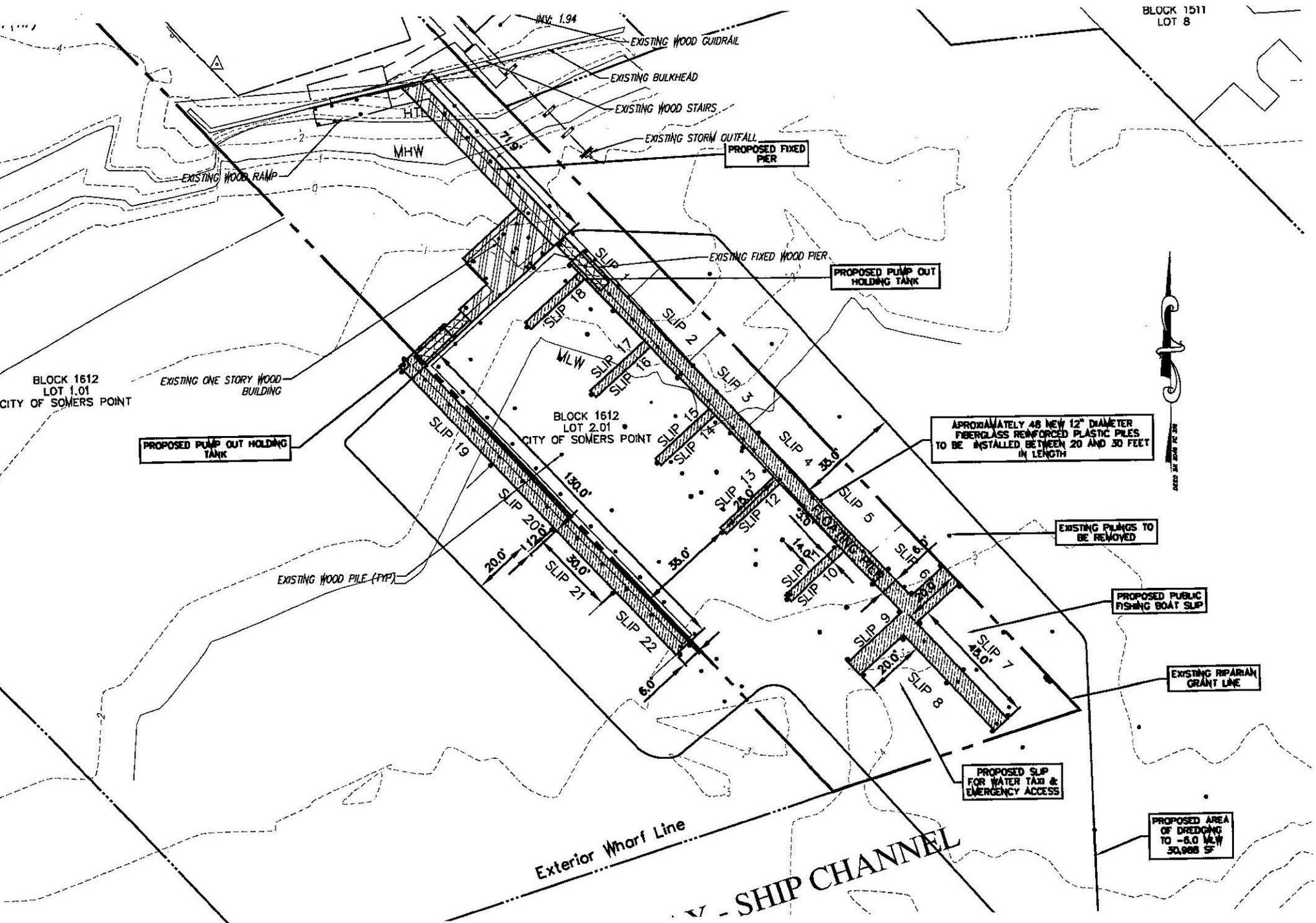
**TRAIL SHOWN ELEVATIONS**  
 All elevations are in NAVD 88  
 Mean Low Water (MLW) = 2.19  
 Mean High Water (MHW) = 1.14  
 High Tide Level (HTL) = 2.26  
 High Water Level (HWL) = 2.30

 SOMERS POINT 7031.8 3	City of Somers Point Atlantic County, New Jersey <b>Higbee Marina</b> Site Plan Block 1612, Lots 2 & 2.01	<b>MOTE ASSOCIATES, L.L.C.</b> PROFESSIONAL ENGINEERS & LAND SURVEYORS 3122 The Esplanade City Harbor Township, New Jersey 08234 Phone: 609-688-1551 Fax: 609-688-1552 www.mote.com	<b>James A. Mott</b> Professional Engineer & Land Surveyor New Jersey License No. 29918  Date: 5/1/17	12/18/17 Revised HTL 11/6/17 Added HTL 6/28/17 Revised Dock Configuration	GKS GKS GKS
				Date: 5/1/17	By: GKS

BLOCK 1511  
LOT 8

BLOCK 1612  
LOT 1.01  
CITY OF SOMERS POINT

SHIP CHANNEL



PROPOSED PUMP OUT HOLDING TANK

PROPOSED FIXED PIER

PROPOSED PUMP OUT HOLDING TANK

APPROXIMATELY 48 NEW 12" DIAMETER FIBERGLASS REINFORCED PLASTIC PILES TO BE INSTALLED BETWEEN 20 AND 30 FEET IN LENGTH

EXISTING PILING TO BE REMOVED

PROPOSED PUBLIC FISHING BOAT SLIP

EXISTING RIPARIAN GRANT LINE

PROPOSED SLIP FOR WATER TAXI & EMERGENCY ACCESS

PROPOSED AREA OF DREDGING TO -8.0 M/LW 30,988 SF

EXISTING ONE STORY WOOD BUILDING

M/LW 1.94

EXISTING WOOD GUDDRAIL

EXISTING BULKHEAD

EXISTING WOOD STAIRS

EXISTING STORM OUTFALL

EXISTING WOOD RAMP

MHW

EXISTING FIXED WOOD PIER

BLOCK 1612  
LOT 2.01  
CITY OF SOMERS POINT

EXISTING WOOD PILE (PYP)

SLIP 19

SLIP 20

SLIP 21

SLIP 22

SLIP 17

SLIP 18

SLIP 15

SLIP 14

SLIP 13

SLIP 12

SLIP 11

SLIP 10

SLIP 9

SLIP 8

SLIP 5

SLIP 6

SLIP 7

SLIP 4

SLIP 3

SLIP 2

SLIP 1

130.0'

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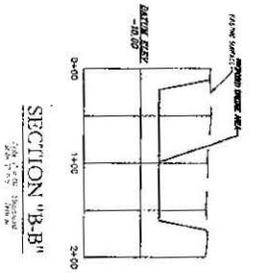
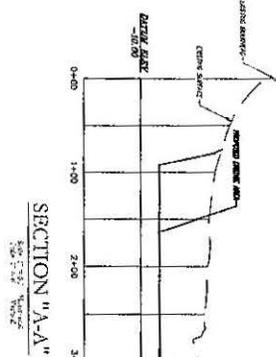
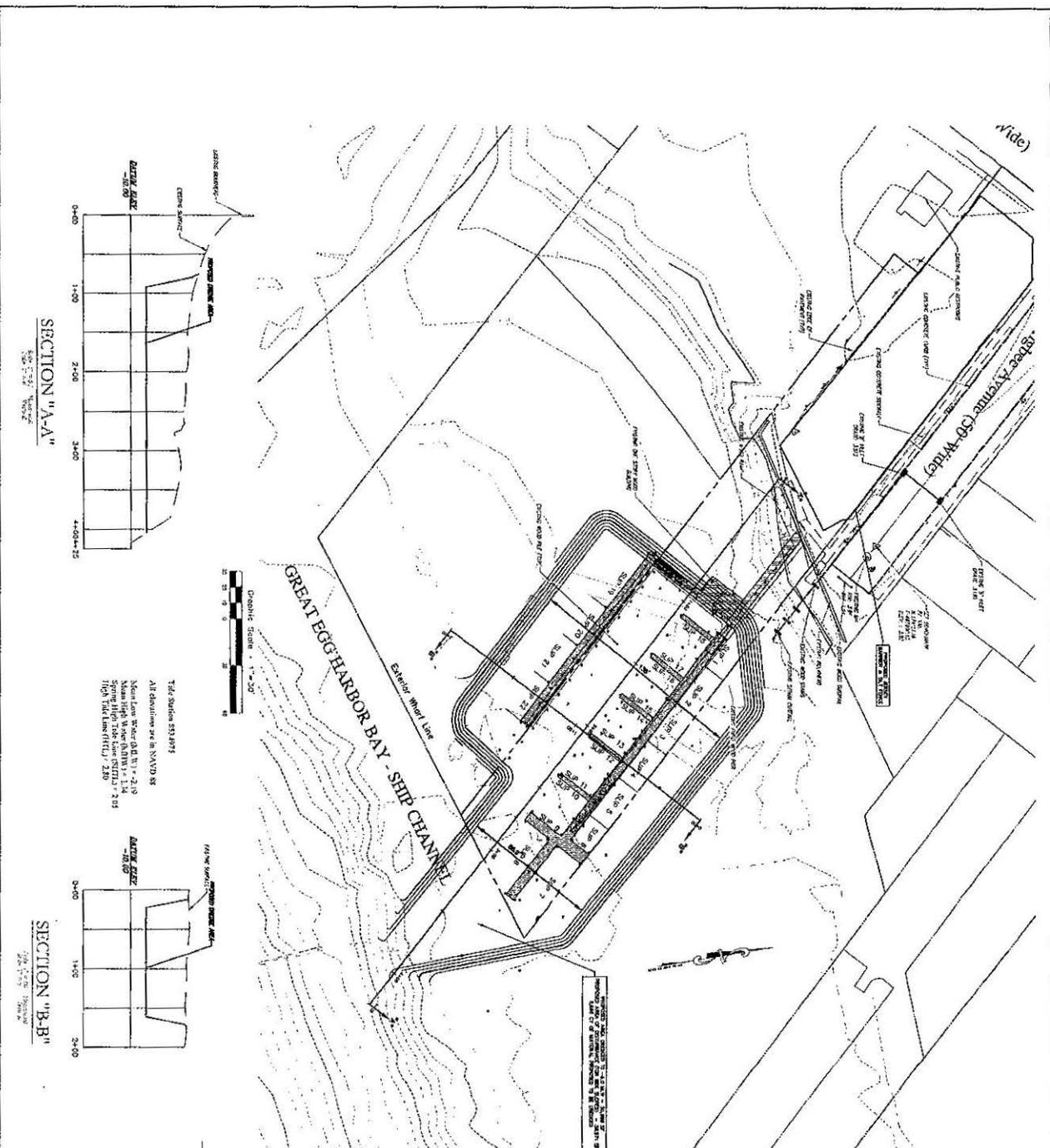
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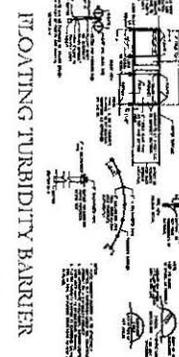
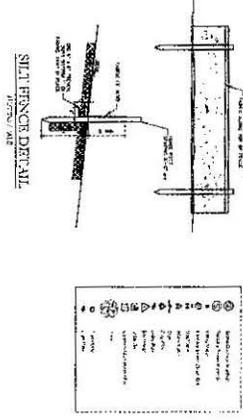
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744-9404 9/13/17  
 All elevations are in NAVD 88  
 Mean High Water (MHW) = +2.19  
 Spring High Water (SHW) = +1.14  
 High Tide (HT) = +0.19



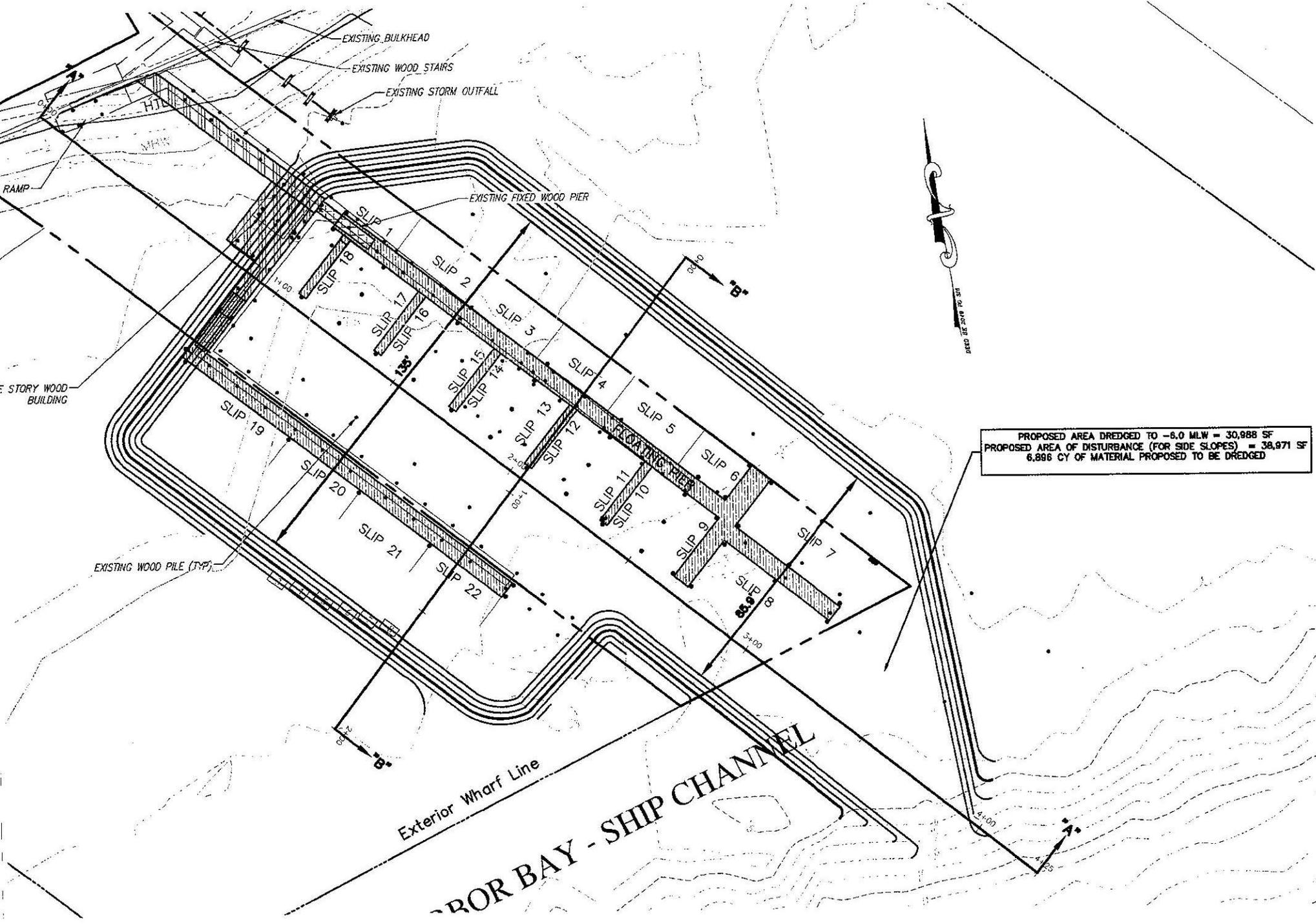
**DREDGING NOTES**

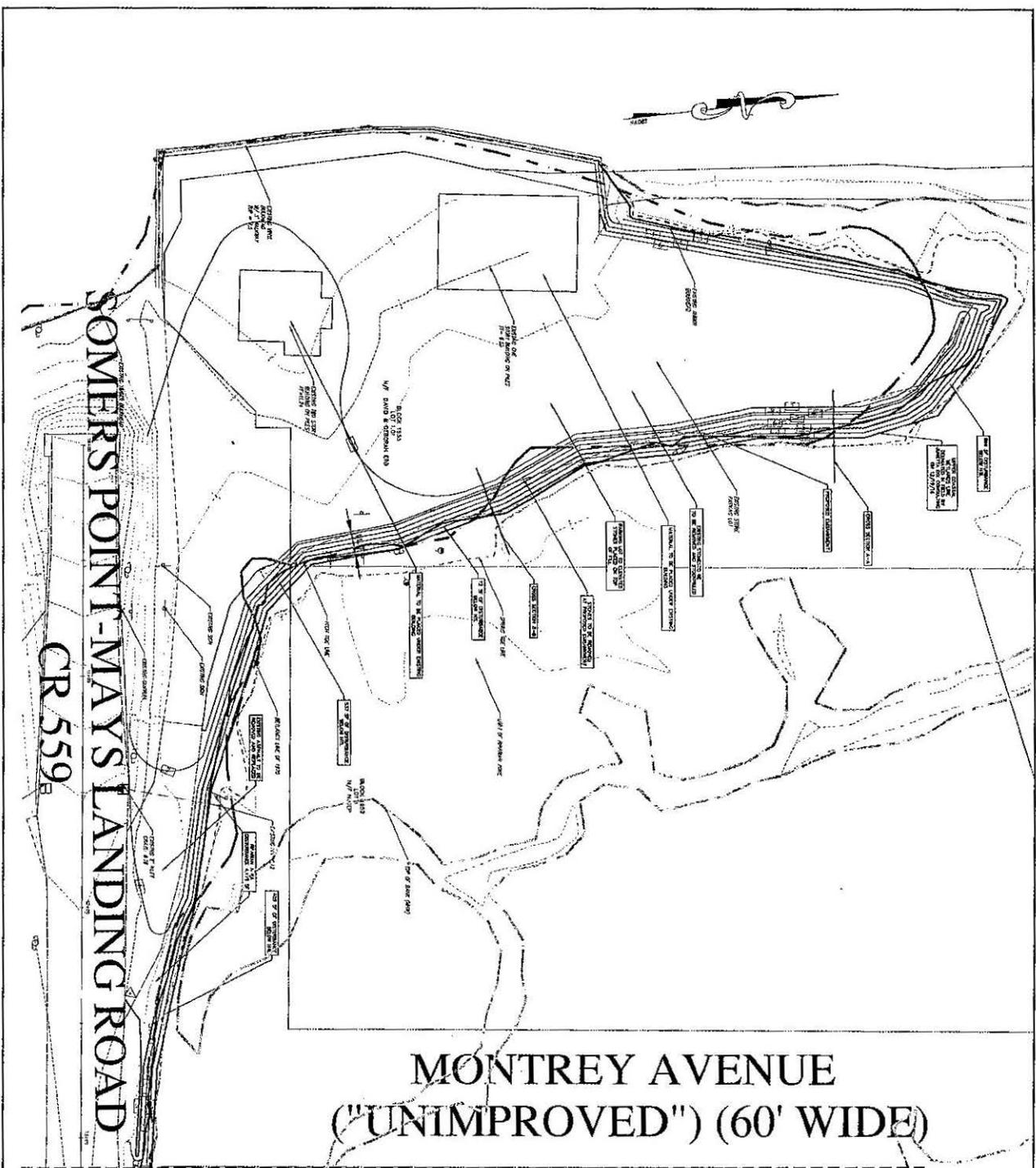
1. All Elevations are in NAVD 88 Datum
2. MHW is +2.19 NAVD 88 Station Great Egg Harbor Bay

REVISIONS

Date	Revised By	Revised For
11/15/17	JAM	Added Details and Dredging Info
12/19/17	HLL	Revised HLL
1/8/18	GKS	Revised per NJDEP

	City of Somers Point Atlantic County, New Jersey <b>Higbee Marina</b> Dredging Plan Block 1612, Lots 2 & 2.01	<b>MOTT ASSOCIATES, LLC</b> 3122 Fire Road Egg Harbor Township, New Jersey 08234 Phone: (609) 599-4900 Fax: (609) 599-1521	<b>James A. Mott</b> Professional Engineer & Land Surveyor New Jersey License No. 25516 	Date: 5/1/17 Date: 5/1/17	Date: 11/15/17 Date: 12/19/17 Date: 1/8/18	Revised per NJDEP Revised HLL Added Details and Dredging Info	GKS GKS GKS	By:
	70318 DREDGE	SOMERS POINT	MOTT ASSOCIATES, LLC 3122 Fire Road Egg Harbor Township, New Jersey 08234 Phone: (609) 599-4900 Fax: (609) 599-1521	James A. Mott Professional Engineer & Land Surveyor New Jersey License No. 25516	Date: 5/1/17	Date: 11/15/17 Date: 12/19/17 Date: 1/8/18	Revised per NJDEP Revised HLL Added Details and Dredging Info	GKS GKS GKS





# MONTREY AVENUE ("UNIMPROVED") (60' WIDE)

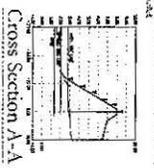
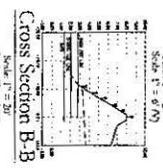
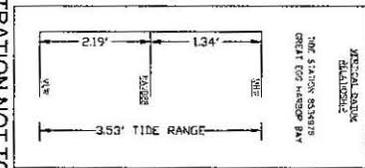
MATCHLINE - SHEET 6

**ILLUSTRATION NOT TO SCALE**

The following is an NAD83  
 All elevations are in NAD83  
 Mean Low Water (MLW) - 2.16  
 Mean High Water (MHW) - 1.11  
 Spring High Tidal (SHTL) - 2.08  
 High Tidal (HTL) - 2.00

**LEGEND**

- Proposed Embankment
- Proposed Roadway
- Proposed Utility
- Proposed Structure
- Proposed Easement
- Proposed Right-of-Way
- Proposed Property Line
- Proposed Survey Line
- Proposed Survey Point
- Proposed Survey Station
- Proposed Survey Curve
- Proposed Survey Angle
- Proposed Survey Distance
- Proposed Survey Area
- Proposed Survey Volume
- Proposed Survey Weight
- Proposed Survey Mass
- Proposed Survey Force
- Proposed Survey Energy
- Proposed Survey Power
- Proposed Survey Pressure
- Proposed Survey Stress
- Proposed Survey Strain
- Proposed Survey Deformation
- Proposed Survey Displacement
- Proposed Survey Velocity
- Proposed Survey Acceleration
- Proposed Survey Frequency
- Proposed Survey Wavelength
- Proposed Survey Amplitude
- Proposed Survey Phase
- Proposed Survey Period
- Proposed Survey Duty Cycle
- Proposed Survey Responsiveness
- Proposed Survey Accuracy
- Proposed Survey Precision
- Proposed Survey Reliability
- Proposed Survey Validity
- Proposed Survey Integrity
- Proposed Survey Availability
- Proposed Survey Usability
- Proposed Survey Portability
- Proposed Survey Interoperability
- Proposed Survey Compatibility
- Proposed Survey Conformance
- Proposed Survey Compliance
- Proposed Survey Adherence
- Proposed Survey Observance
- Proposed Survey Observance



Notes:

- The embankment is shown on the right side of the road. The embankment is shown on the right side of the road.
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7031.8  
 SOMERS POINT  
 NEW JERSEY

City of Somers Point  
 Atlantic County, New Jersey  
**Resiliency Project**  
 Grading & Site Plan Phase I

**Mott Associates, LLC**  
 5127 Pine Road  
 Egg Harbor Township, Egg Harbor NJ 08234  
 Phone: (609) 565-1551  
 Fax: (609) 565-1552

**James A. Mott**  
 Professional Engineer & Land Surveyor  
 New Jersey License No. 25818

*James A. Mott*  
 Date: 5/1/17

Designed	GKS
Drawn	GKS
Checked	JAM
Approved	JAM
Date	5/1/17

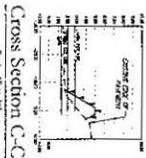
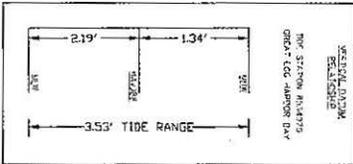
1/8/18	Revised per NJDEP/USACE Comments	GKS
12/30/17	Revised per NJDEP/USACE Comments	GKS
11/3/17	Revised per NJDEP Comments	GKS
10/20/17	Revised per NJDEP Comments	GKS
8/15/17	Revised per NJDEP Comments	GKS
8/2/17	Revised per NJDEP Comments	GKS
7/7/17	Revised Embankment Location	GKS
	Revisors	By

**SOMERS POINT - MAYS LANDING ROAD  
(CR 559) (65' WIDE)**

**MEADLAND AVENUE  
("UNIMPROVED") (60' WID)**

**VICTORIA AVENUE  
("UNIMPROVED") (60' WIDE)**

ILLUSTRATION NOT TO SCALE



Notes:  
1. The contractor will be required to provide a 10% erosion control plan for the project. The plan should include a detailed description of the erosion control measures to be used, including the location and type of measures, and a schedule for implementation. The plan should also include a detailed description of the sediment control measures to be used, including the location and type of measures, and a schedule for implementation. The plan should be submitted to the NJDEP for review and approval prior to the start of construction. The contractor will be responsible for obtaining all necessary permits for the project. The contractor will be responsible for obtaining all necessary permits for the project. The contractor will be responsible for obtaining all necessary permits for the project.



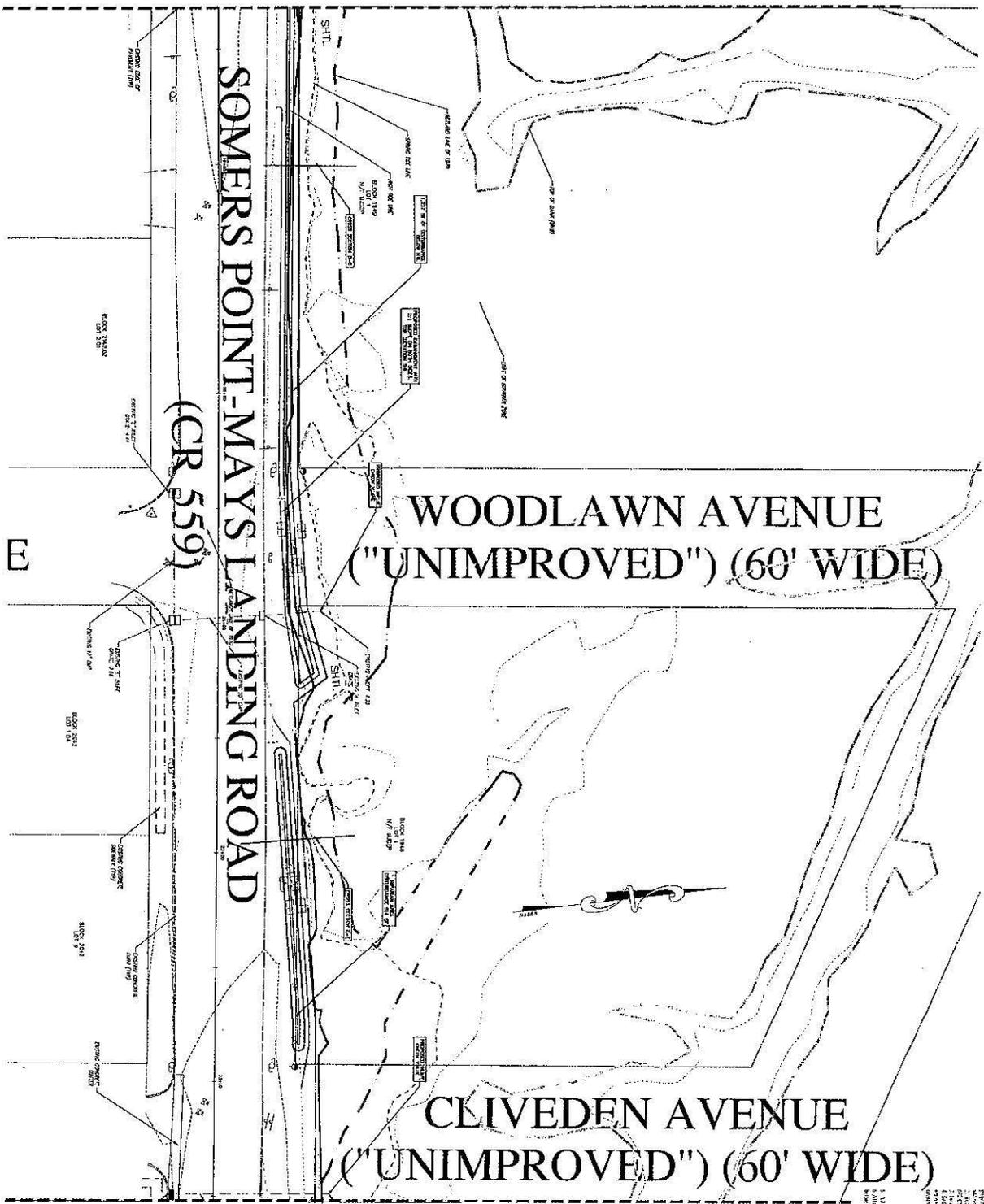
**SP**  
SOMERS POINT  
NEW JERSEY

City of Somers Point  
Atlantic County, New Jersey  
**Resiliency Project**  
Grading & Site Plan Phase I

**MOTT ASSOCIATES, LLC**  
Professional Engineer & Land Surveyor  
New Jersey License No. 25218  
3125 Pine Road  
1033 Harbor Tower Dr., New Jersey 08234  
Phone: (609) 884-1121  
Fax: (609) 889-1123  
DAN PATE, Professional Engineer & Land Surveyor  
CR 608 887-0000

**James A. Mott**  
Professional Engineer & Land Surveyor  
New Jersey License No. 25218  
*James A. Mott*  
Date: 5/1/17  
Checked: Mott GKS  
Drawn: Mott GKS  
Cleared: JAM  
Approved: JAM  
Date: 5/1/17

Date	Revisors	By
1/8/18	Revised per NJDEP/USACE Comments	GKS
12/30/17	Revised per NJDEP/USACE Comments	GKS
11/3/17	Revised per NJDEP Comments	GKS
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8/15/17	Revised per NJDEP Comments	GKS
8/2/17	Revised per NJDEP Comments	GKS
7/7/17	Revised Embankment Location	GKS

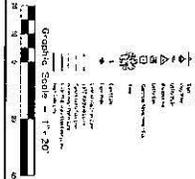
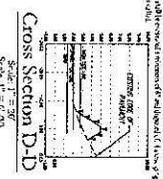
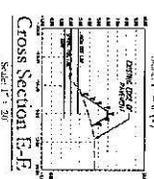
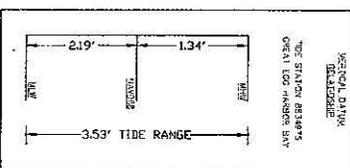


SOMERS POINT-MAYS LANDING ROAD  
(CR 559)

WOODLAWN AVENUE  
("UNIMPROVED") (60' WIDE)

CLIVEDEN AVENUE  
("UNIMPROVED") (60' WIDE)

ILLUSTRATION NOT TO SCALE



T&E Station 81+39.15  
 All elevations are in NAVD 83  
 Mean Low Water (MLW) = 2.19'  
 Mean High Water (MHW) = 3.52'  
 Spring High Tide (SHT) = 4.05'  
 High Tide (HT) = 3.80'

1. All dimensions are in feet unless otherwise noted.  
 2. All elevations are in feet unless otherwise noted.  
 3. All dimensions are in feet unless otherwise noted.  
 4. All dimensions are in feet unless otherwise noted.  
 5. All dimensions are in feet unless otherwise noted.  
 6. All dimensions are in feet unless otherwise noted.  
 7. All dimensions are in feet unless otherwise noted.  
 8. All dimensions are in feet unless otherwise noted.  
 9. All dimensions are in feet unless otherwise noted.  
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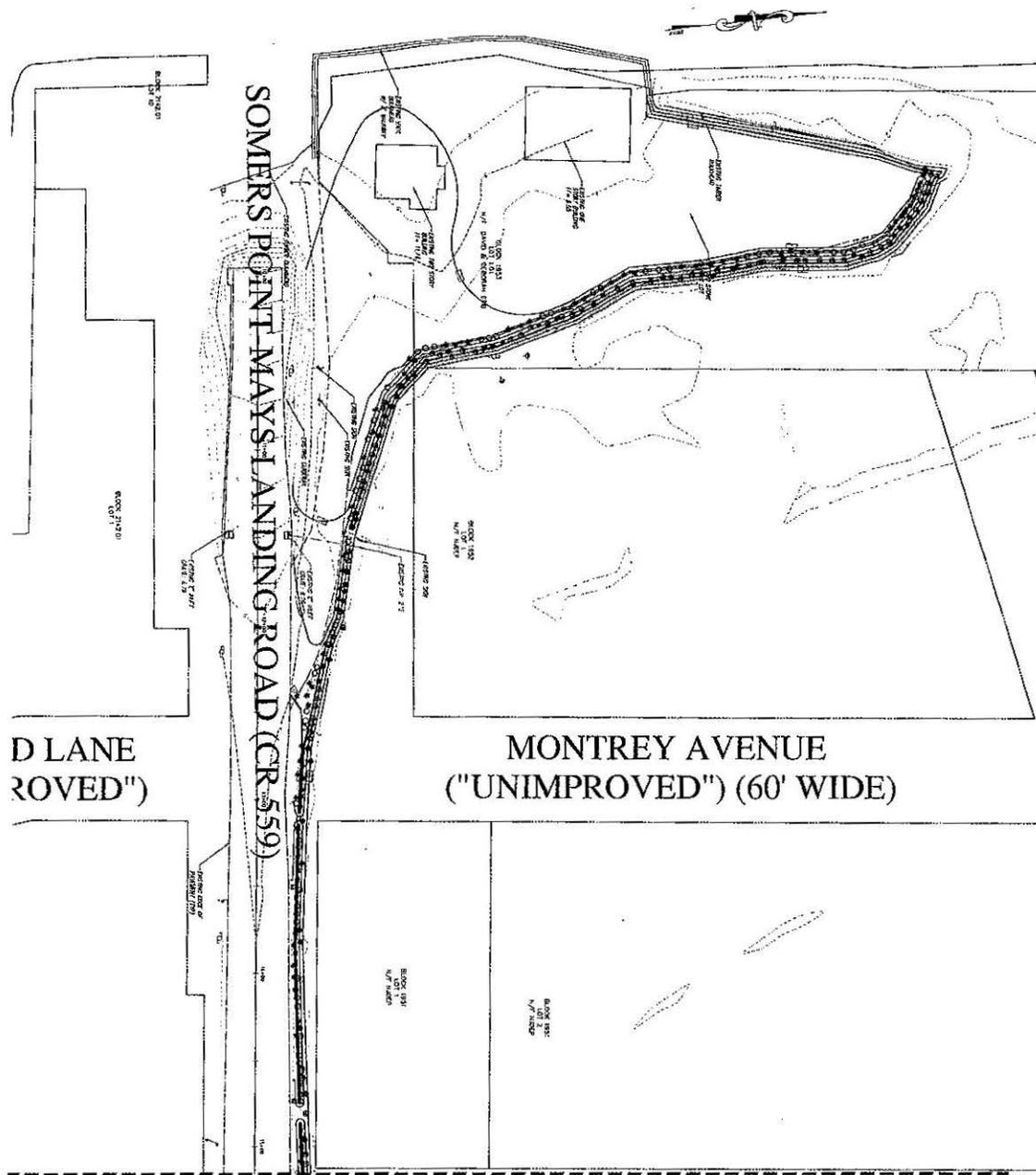
City of Somers Point  
 Atlantic County, New Jersey  
**Resiliency Project**  
 Grading & Site Plan Phase II

**Mott Associates, LLC**  
 Professional Engineers & Land Surveyors  
 3122 Roe Road  
 Egg Harbor Township, New Jersey 08234  
 Phone: (609) 666-1251  
 Fax: (609) 666-9111

**James A. Mott**  
 Professional Engineer & Land Surveyor  
 New Jersey License No. 28918  
  
 Date: 5/1/17  
 Approved: JAM Date: 5/1/17  
 Checked: JAM Date: 5/1/17  
 Drawn: GKS Date: 5/1/17  
 Engined: GKS Date: 5/1/17

Date	Revised per	Comments	By
1/8/18	Revised per NJDEP/AUSACE	Comments	GKS
12/20/17	Revised per NJDEP/AUSACE	Comments	GKS
11/2/17	Revised per NJDEP	Comments	GKS
10/20/17	Revised per NJDEP	Comments	GKS
8/15/17	Revised per NJDEP	Comments	GKS
6/2/17	Revised per NJDEP	Comments	GKS
7/7/17	Revised Embankment Location		GKS

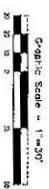




D LANE  
ROVED")

MONTREY AVENUE  
("UNIMPROVED") (60' WIDE)

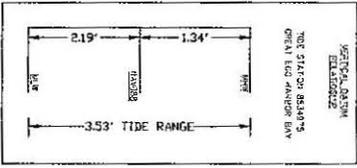
MATCHLINE - SHEET 10



- SYMBOLS**
- Existing Building
  - Proposed Building
  - Existing Driveway
  - Proposed Driveway
  - Existing Easement
  - Proposed Easement
  - Existing Right-of-Way
  - Proposed Right-of-Way
  - Existing Utility
  - Proposed Utility
  - Existing Tree
  - Proposed Tree
  - Existing Fence
  - Proposed Fence
  - Existing Wall
  - Proposed Wall
  - Existing Road
  - Proposed Road
  - Existing Water
  - Proposed Water
  - Existing Spot Elevation
  - Proposed Spot Elevation
  - Existing Contour
  - Proposed Contour
  - Existing Spot Elevation
  - Proposed Spot Elevation

Vertical Datum  
Elevation  
NOTE: 21.72' ON 85.41' IS  
GREAT LAGOON ADJACENT LANE

ILLUSTRATION NOT TO SCALE



**NOTES**

1. This plan is prepared for the purpose of showing the proposed landscaping and site work for the project. It is not intended to be used for any other purpose.
2. The client is responsible for providing accurate and complete information for this project. The client is also responsible for obtaining all necessary permits and approvals.
3. The client is responsible for providing access to the site for the project. The client is also responsible for providing all necessary utilities and services.
4. The client is responsible for providing all necessary information for the project. The client is also responsible for providing all necessary permits and approvals.
5. The client is responsible for providing all necessary information for the project. The client is also responsible for providing all necessary permits and approvals.

NO.	DESCRIPTION	DATE	BY
1	Issue for Review	12/30/17	GKS
2	Revised per N.J. DEP Comments	10/20/17	GKS
3	Revised per N.J. DEP Comments	8/15/17	GKS
4	Revised per N.J. DEP Comments	8/2/17	GKS
5	Revised per N.J. DEP Comments	7/27/17	GKS

City of Somers Point  
Atlantic County, New Jersey  
**Resiliency Project**  
Landscaping Plan

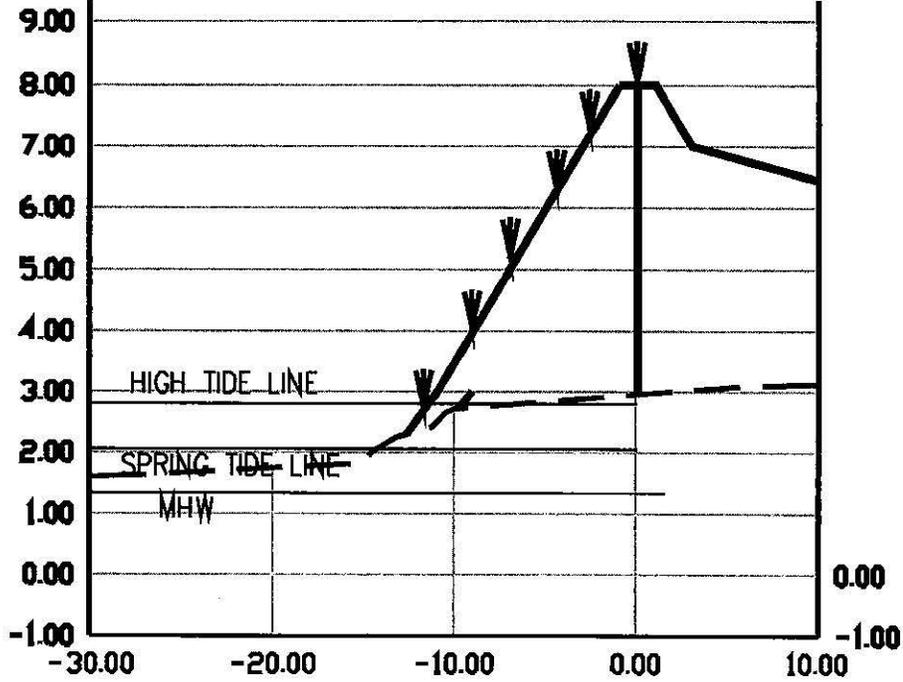
**MOTT ASSOCIATES, LLC**  
Professional Engineers & Land Surveyors  
3122 Fire Road  
Egg Harbor Township, New Jersey 08224  
Phone: (609) 569-1551  
Fax: (609) 569-1521

**James A. Mott**  
Professional Engineer & Land Surveyor  
New Jersey License No. 28918  
*Signature*  
Date: 5/1/17

DATE	REVISION	BY
12/30/17	Revised per N.J. DEP/USACE Comments	GKS
10/20/17	Revised per N.J. DEP Comments	GKS
8/15/17	Revised per N.J. DEP Comments	GKS
8/2/17	Revised per N.J. DEP Comments	GKS
7/27/17	Revised Embankment Location	GKS

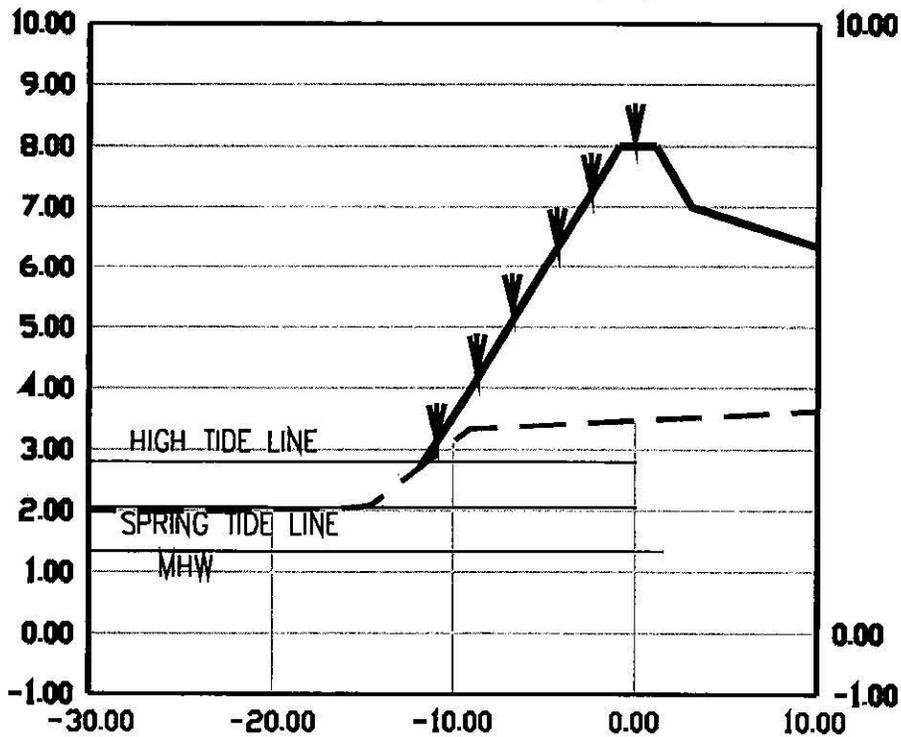






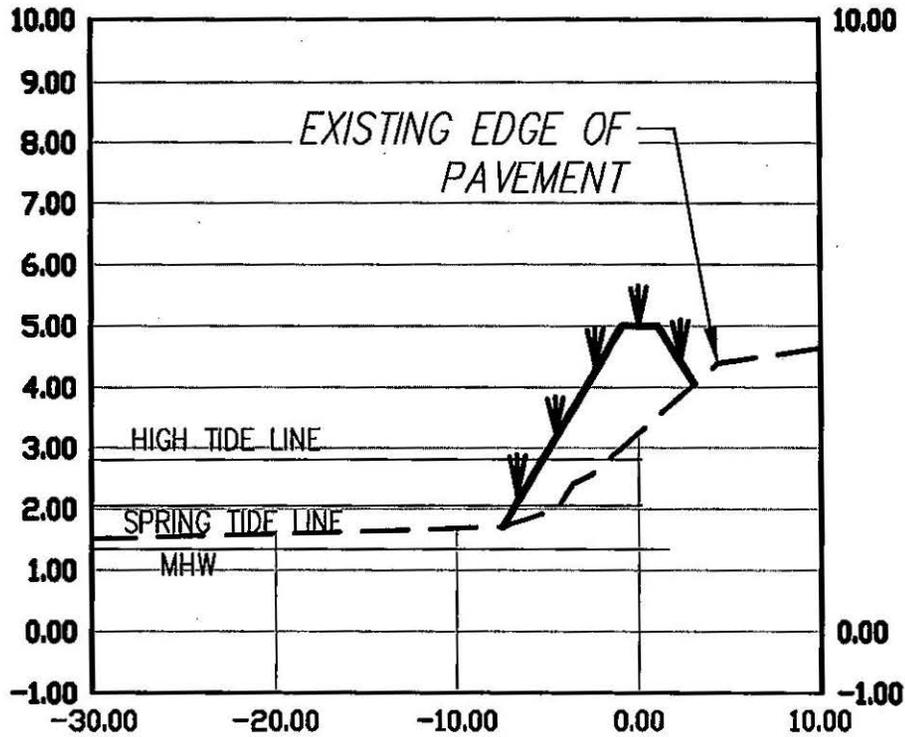
# Cross Section A-A

Scale: 1" = 20'  
 Scale: 1" = 6' (V)



# Cross Section B-B

Scale: 1" = 20'  
 Scale: 1" = 6' (V)

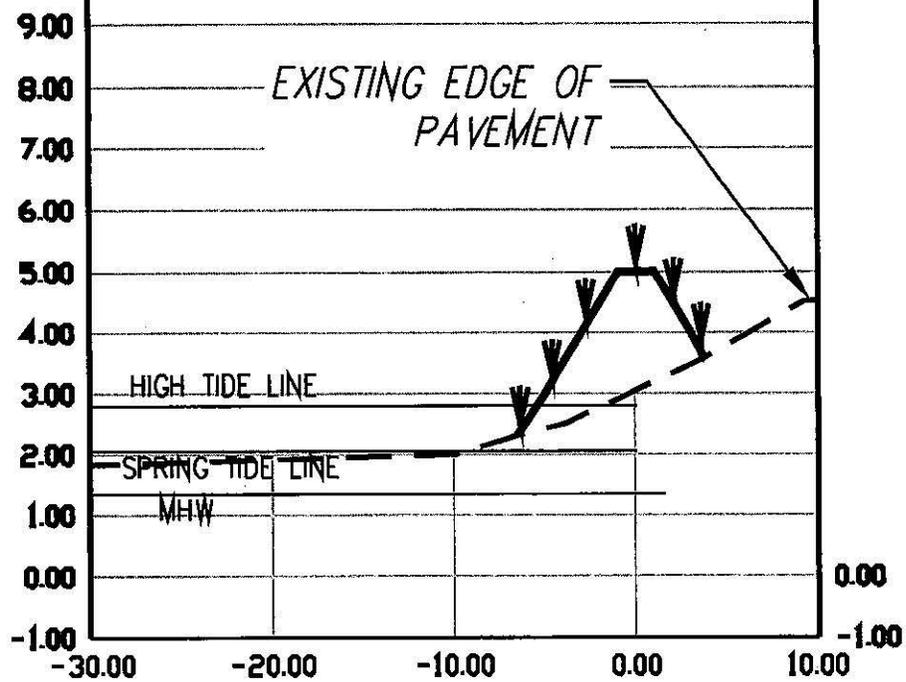


# Cross Section C-C

Scale: 1" = 20'  
 Scale: 1" = 6' (V)

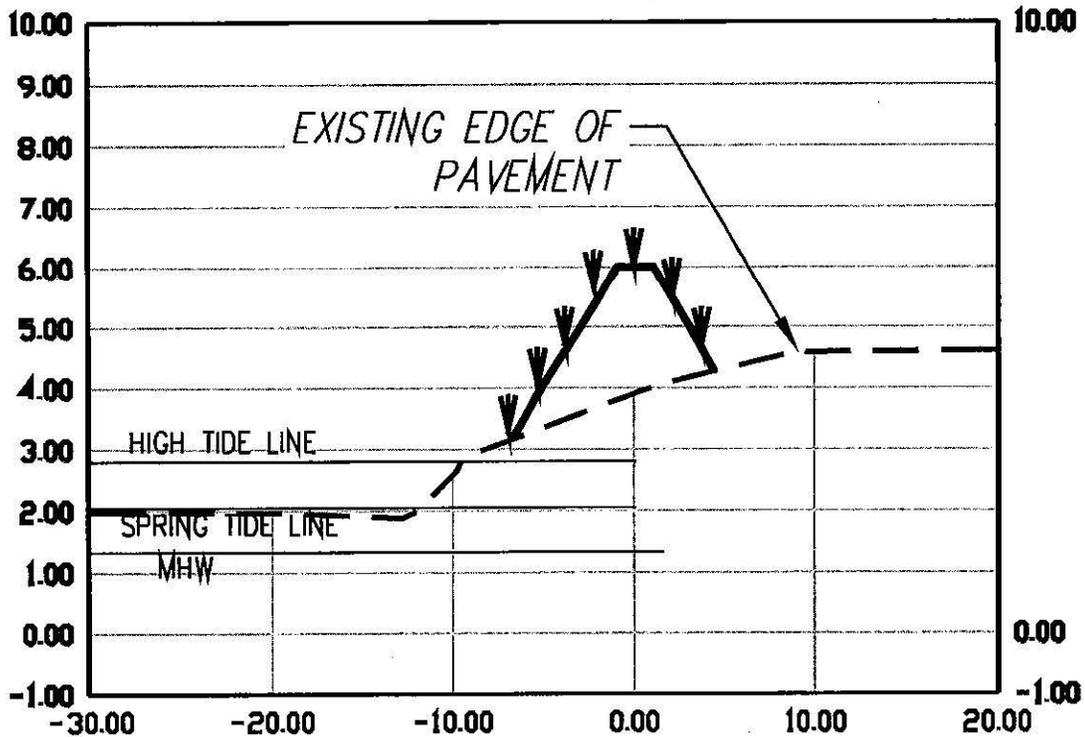
## VERTICAL DATUM RELATIONSHIP

TIDE STATION 8534975  
 GREAT EGG HARBOR BAY



# Cross Section D-D

Scale: 1" = 20'  
Scale: 1" = 6' (V)



# Cross Section E-E

Scale: 1" = 20'  
Scale: 1" = 6' (V)