

Appendix B

Agency Correspondence and Permits

**U.S. ARMY CORPS OF ENGINEERS
APPLICATION FOR DEPARTMENT OF THE ARMY PERMIT**

33 CFR 325. The proponent agency is CECW-CO-R.

**Form Approved -
OMB No. 0710-0003
Expires: 30-SEPTEMBER-2015**

Public reporting for this collection of information is estimated to average 11 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of the collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters, Executive Services and Communications Directorate, Information Management Division and to the Office of Management and Budget, Paperwork Reduction Project (0710-0003). Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. Please DO NOT RETURN your form to either of those addresses. Completed applications must be submitted to the District Engineer having jurisdiction over the location of the proposed activity.

PRIVACY ACT STATEMENT

Authorities: Rivers and Harbors Act, Section 10, 33 USC 403; Clean Water Act, Section 404, 33 USC 1344; Marine Protection, Research, and Sanctuaries Act, Section 103, 33 USC 1413; Regulatory Programs of the Corps of Engineers; Final Rule 33 CFR 320-332. Principal Purpose: Information provided on this form will be used in evaluating the application for a permit. Routine Uses: This information may be shared with the Department of Justice and other federal, state, and local government agencies, and the public and may be made available as part of a public notice as required by Federal law. Submission of requested information is voluntary, however, if information is not provided the permit application cannot be evaluated nor can a permit be issued. One set of original drawings or good reproducible copies which show the location and character of the proposed activity must be attached to this application (see sample drawings and/or instructions) and be submitted to the District Engineer having jurisdiction over the location of the proposed activity. An application that is not completed in full will be returned.

(ITEMS 1 THRU 4 TO BE FILLED BY THE CORPS)

1. APPLICATION NO.	2. FIELD OFFICE CODE	3. DATE RECEIVED	4. DATE APPLICATION COMPLETE
--------------------	----------------------	------------------	------------------------------

(ITEMS BELOW TO BE FILLED BY APPLICANT)

5. APPLICANT'S NAME First - Ray Middle - Last - Gormly Company - Mayor, Township of Little Egg Harbor E-mail Address -		8. AUTHORIZED AGENT'S NAME AND TITLE (agent is not required) First - Kristopher Middle - Last - Krzyston Company - T&M Associates E-mail Address - kkrzyston@tandmassociates.com	
6. APPLICANT'S ADDRESS: Address- 665 Radio Road City - Little Egg Harbor State - NJ Zip - 08087 Country -		9. AGENT'S ADDRESS: Address- 11 Tindall Road City - Middletown State - NJ Zip - 07748 Country -	
7. APPLICANT'S PHONE NOS. w/AREA CODE a. Residence b. Business c. Fax 609-296-7241		10. AGENTS PHONE NOS. w/AREA CODE a. Residence b. Business c. Fax 732-671-6400	

STATEMENT OF AUTHORIZATION

11. I hereby authorize, Kristopher Krzyston to act in my behalf as my agent in the processing of this application and to furnish, upon request, supplemental information in support of this permit application.


SIGNATURE OF APPLICANT

2/9/17
DATE

NAME, LOCATION, AND DESCRIPTION OF PROJECT OR ACTIVITY

12. PROJECT NAME OR TITLE (see instructions) Little Egg Harbor/Tuckerton Marsh Resiliency Project			
13. NAME OF WATERBODY, IF KNOWN (if applicable) Little Egg Harbor / Great Bay		14. PROJECT STREET ADDRESS (if applicable) Address See attached list	
15. LOCATION OF PROJECT Latitude: °N See attached list Longitude: °W See attached list		City - LEH-Tuckerton State- NJ Zip- 08087	
16. OTHER LOCATION DESCRIPTIONS, IF KNOWN (see instructions) State Tax Parcel ID Municipality Section - Township - Range -			

17. DIRECTIONS TO THE SITE

Take Garden State Parkway to Exit 58 to Route 539 south. take to Route 9. Make a Right onto Route 9 South. Make a Left onto Great Bay Boulevard. The Marsh Deposition Areas are along Great Bay Boulevard. Please refer to Site Location Maps for the locations of the Dredging and living shoreline.

18. Nature of Activity (Description of project, include all features)

The proposed project consists of the dredging of several lagoons throughout the Township of Little Egg Harbor and Tuckerton Borough. The material will be hydraulically dredged and will be placed within low lying / open water areas of the marsh along Great Bay Boulevard in an effort to improve marsh resiliency. Additionally, the proposed project involves the creation of a living shoreline within the area of Iowa Court that will re-establish a portion of the shoreline back to the 1977 tidelands claim line. The applicant is working closely with Rutgers University, the NJDEP, USACOE, and Barnegat Bay Partnership to ensure the project is being designed to adequately protect the marsh ecosystem.

19. Project Purpose (Describe the reason or purpose of the project, see instructions)

Representatives from T&M Associates, Little Egg Harbor, and Tuckerton have met with NJDEP DLUR, Army Corps of Engineers, Rutgers Marine Field Station and the Barnegat Bay Partnership, to discuss the thin layer deposition and marsh resiliency project. The dredging is proposed to remove excess sediment that is building up in the lagoons in LEH and Tuckerton. The thin layer deposition and living shoreline is a mean and method for beneficial re-use of the dredge material. Through collaboration and months of research, together we have identified areas of low lying marsh that are in need of restoration. There are a number of "Pools" within the salt marsh that are static and not filling back up with the ebb and flow of the tides. The project is intended to spread the dredged material from the creeks and lagoons over the degraded areas of marsh, raising the areas to a healthier elevation observed in the surrounding marsh. Studies have shown that increasing sediment levels within an unhealthy marsh improve plant conditions as the area is not consistently flooded.

USE BLOCKS 20-23 IF DREDGED AND/OR FILL MATERIAL IS TO BE DISCHARGED

20. Reason(s) for Discharge

As described above, the sediment that is removed from the lagoons and creeks will be reused and spread on marsh habitat located along Great Bay Boulevard. The reason for the discharge is to restore portions of the degraded marsh habitat and to raise the elevation of the marsh to be above the Mean High Tide elevation and predicted sea level rise. The goal of the living shoreline is to add extra protection along Iowa Court and reduce wave action for the nearby homes. The living shoreline will be designed with a combination of stone and coir logs. In addition the new upland areas will be planted with spartina.

21. Type(s) of Material Being Discharged and the Amount of Each Type in Cubic Yards:

Type	Type	Type
Amount in Cubic Yards	Amount in Cubic Yards	Amount in Cubic Yards

22. Surface Area in Acres of Wetlands or Other Waters Filled (see instructions)

Acres
or
Linear Feet

23. Description of Avoidance, Minimization, and Compensation (see instructions)

Representatives from T&M Associates, Little Egg Harbor, and Tuckerton have met with NJDEP DLUR, Army Corps of Engineers, Rutgers Marine Field Station and the Barnegat Bay Partnership, to discuss the thin layer deposition and marsh resiliency project. Through collaboration and months of research, together we have identified areas of low lying marsh that are in need of restoration. Every effort has been made to properly plan the project to minimize impacts on the salt marsh habitat. During dredging operation and deposition all proper SESC and BMP measures will be implemented (super silt fence, haybales and turbidity barriers) to help protect the habitat in the area.

24. Is Any Portion of the Work Already Complete? ☐ Yes ☒ No IF YES, DESCRIBE THE COMPLETED WORK

25. Addresses of Adjoining Property Owners, Lessees, Etc., Whose Property Adjoins the Waterbody (if more than can be entered here, please attach a supplemental list).

a. Address- The property owners list is provided in the NJDEP Permit application included with this application

City - State - Zip -

b. Address-

City - State - Zip -

c. Address-

City - State - Zip -

d. Address-

City - State - Zip -

e. Address-

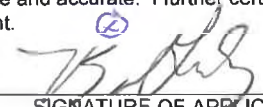
City - State - Zip -

26. List of Other Certificates or Approvals/Denials received from other Federal, State, or Local Agencies for Work Described in This Application.

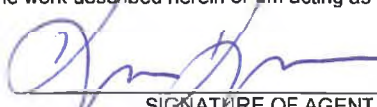
AGENCY	TYPE APPROVAL*	IDENTIFICATION NUMBER	DATE APPLIED	DATE APPROVED	DATE DENIED
NJDEP DLUR	WFD Permit		Concurrently		

* Would include but is not restricted to zoning, building, and flood plain permits

27. Application is hereby made for permit or permits to authorize the work described in this application. I certify that this information in this application is complete and accurate. I further certify that I possess the authority to undertake the work described herein or am acting as the duly authorized agent of the applicant.


SIGNATURE OF APPLICANT

DATE


SIGNATURE OF AGENT

2/23/17
DATE

The Application must be signed by the person who desires to undertake the proposed activity (applicant) or it may be signed by a duly authorized agent if the statement in block 11 has been filled out and signed.

18 U.S.C. Section 1001 provides that: Whoever, in any manner within the jurisdiction of any department or agency of the United States knowingly and willfully falsifies, conceals, or covers up any trick, scheme, or disguises a material fact or makes any false, fictitious or fraudulent statements or representations or makes or uses any false writing or document knowing same to contain any false, fictitious or fraudulent statements or entry, shall be fined not more than \$10,000 or imprisoned not more than five years or both.



REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
PHILADELPHIA DISTRICT, CORPS OF ENGINEERS
WANAMAKER BUILDING, 100 PENN SQUARE EAST
PHILADELPHIA, PENNSYLVANIA 19107-3390

October 18, 1995

CENAP-OP-R-Coastal Zone Management (New Jersey and Pennsylvania)

PUBLIC NOTICE

SUBJECT: "Consistency Certification" with Approved State Coastal Zone Management Program

Federal regulations require that applicants for Department of the Army permits to perform work which falls under the jurisdiction of a State with a Coastal Zone Management (CZM) Program approved by the Secretary of Commerce, MUST PROVIDE CONSISTENCY CERTIFICATION. The certification statement must accompany the application for a Department of the Army permit.

On September 29, 1978 and September 29, 1980, respectively, CZM Programs were approved for the State of New Jersey and the Commonwealth of Pennsylvania by the Department of Commerce. Therefore, all applications for Department of the Army permits for work in their designated Coastal Zones must contain a consistency statement.

The statement should be as follows:

"The proposed activity complies with and will be conducted in a manner that is consistent with the approved State Coastal Zone Management Program."

Signature of Applicant

Additional information concerning the approved Coastal Zone Management Programs can be obtained by contacting:

State of New Jersey

New Jersey Department of
Environmental Protection
Land Use Regulation Program
CN 401
Trenton, New Jersey 08625-0401
Telephone Number - (609) 292-0060

Commonwealth of Pennsylvania

Pennsylvania Department of
Environmental Protection
Division of Coastal Programs
P.O. Box 8555
Harrisburg, Pennsylvania 17105-8555
Telephone Number - (717) 787-2529

FRANK J. CIANFRANZ
Chief, Regulatory Branch

U.S. Army Corps of Engineers (USACE)
APPLICATION FOR DEPARTMENT OF THE ARMY PERMIT
33 CFR 325. The proponent agency is CECW-CO-R.

Form Approved -
OMB No. 0710-0003
Expires: 01-08-2018

The public reporting burden for this collection of information, OMB Control Number 0710-0003, is estimated to average 11 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or burden reduction suggestions to the Department of Defense, Washington Headquarters Services, at whs.mc-alex.esd.mbx-dd-dod-information-collections@mail.mil. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.

PRIVACY ACT STATEMENT

Authorities: Rivers and Harbors Act, Section 10, 33 USC 403; Clean Water Act, Section 404, 33 USC 1344; Marine Protection, Research, and Sanctuaries Act, Section 103, 33 USC 1413; Regulatory Programs of the Corps of Engineers; Final Rule 33 CFR 320-332. Principal Purpose: Information provided on this form will be used in evaluating the application for a permit. Routine Uses: This information may be shared with the Department of Justice and other federal, state, and local government agencies, and the public and may be made available as part of a public notice as required by Federal law. Submission of requested information is voluntary, however, if information is not provided the permit application cannot be evaluated nor can a permit be issued. One set of original drawings or good reproducible copies which show the location and character of the proposed activity must be attached to this application (see sample drawings and/or instructions) and be submitted to the District Engineer having jurisdiction over the location of the proposed activity. An application that is not completed in full will be returned. System of Record Notice (SORN). The information received is entered into our permit tracking database and a SORN has been completed (SORN #A1145b) and may be accessed at the following website: <http://dcld.defense.gov/Privacy/SORNsIndex/DOD-wide-SORN-Article-View/Article/570115/a1145b-ce.aspx>

(ITEMS 1 THRU 4 TO BE FILLED BY THE CORPS)

1. APPLICATION NO.	2. FIELD OFFICE CODE	3. DATE RECEIVED	4. DATE APPLICATION COMPLETE
--------------------	----------------------	------------------	------------------------------

(ITEMS BELOW TO BE FILLED BY APPLICANT)

5. APPLICANT'S NAME First - Susan Middle - Last - Marshall Company - Tuckerton Borough E-mail Address - mayor@tuckertonborough.com	8. AUTHORIZED AGENT'S NAME AND TITLE (agent is not required) First - Ericka Middle - Last - Naklicki Company - T&M Associates E-mail Address - enaklicki@tandmassociates.com
6. APPLICANT'S ADDRESS: Address- 420 East Main Street City - Tuckerton State - NJ Zip - 08087 Country - USA	9. AGENT'S ADDRESS: Address- 11 Tindall Road City - Middletown State - NJ Zip - 07748 Country - USA
7. APPLICANT'S PHONE NOS. w/AREA CODE a. Residence b. Business c. Fax 609-296-2701	10. AGENTS PHONE NOS. w/AREA CODE a. Residence b. Business c. Fax 732-671-6400

STATEMENT OF AUTHORIZATION

11. I hereby authorize, Ericka Naklicki to act in my behalf as my agent in the processing of this application and to furnish, upon request, supplemental information in support of this permit application.



SIGNATURE OF APPLICANT

DATE

NAME, LOCATION, AND DESCRIPTION OF PROJECT OR ACTIVITY

12. PROJECT NAME OR TITLE (see instructions) South Green Street Shoreline Protection	
13. NAME OF WATERBODY, IF KNOWN (if applicable) Tuckerton Cove	14. PROJECT STREET ADDRESS (if applicable) Address South Green Street
15. LOCATION OF PROJECT Latitude: °N 41.1867215 Longitude: °W -069.8614840	City - Tuckerton State- NJ Zip- 08087
16. OTHER LOCATION DESCRIPTIONS, IF KNOWN (see instructions) State Tax Parcel ID Municipality Tuckerton Section - Township - Range -	

17. DIRECTIONS TO THE SITE

Take Garden State Parkway to Exit 58. Take Route 539 south. Route 539 turns into South Green Street near Route 9. Take down to Tuckerton Cove.

18. Nature of Activity (Description of project, include all features)

The proposed project involves the construction of two stone breakwaters to provide stabilization and assist in the natural accretion of sand to enlarge the beach area. The beach area will be restored with sand and the breakwaters will be constructed outshore with open gaps to allow for the tide to flow into and out of the beach area.

19. Project Purpose (Describe the reason or purpose of the project, see instructions)

The goal of the project is to restore the shoreline of Tuckerton Cove to the original shoreline as shown in historic aerials from the 1970s. The breakwaters will alleviate wave energy while also allowing the tide to flow in and out. The sand will remain landward of the sill to allow the natural accretion over time. The stone structure can provide stabilization and habitat for a variety of shellfish and other sessile organisms.

USE BLOCKS 20-23 IF DREDGED AND/OR FILL MATERIAL IS TO BE DISCHARGED

20. Reason(s) for Discharge

Shoreline stabilization and increase the size of beach area.

21. Type(s) of Material Being Discharged and the Amount of Each Type in Cubic Yards:

Type
Amount in Cubic Yards

Type
Amount in Cubic Yards

Type
Amount in Cubic Yards

Stone

Sand

22. Surface Area in Acres of Wetlands or Other Waters Filled (see instructions)

Acres

or

Linear Feet

23. Description of Avoidance, Minimization, and Compensation (see instructions)

The proposed project will minimize impacts to any natural habitats in the area by designing the least invasive breakwater to allow for the natural accretion of water and sand back to the shoreline. The adjacent tidal marsh will not be impacted. The impact to subtidal shallows will be minimal and the stone will help create habitat for shellfish and other sessile organisms.

24. Is Any Portion of the Work Already Complete? ☐ Yes ☒ No IF YES, DESCRIBE THE COMPLETED WORK

25. Addresses of Adjoining Property Owners, Lessees, Etc., Whose Property Adjoins the Waterbody (if more than can be entered here, please attach a supplemental list).

a. Address- Please refer to the EIS for the list of adjacent property owners

City - State - Zip -

b. Address-

City - State - Zip -

c. Address-

City - State - Zip -

d. Address-

City - State - Zip -

e. Address-

City - State - Zip -

26. List of Other Certificates or Approvals/Denials received from other Federal, State, or Local Agencies for Work Described in This Application.

AGENCY	TYPE APPROVAL*	IDENTIFICATION NUMBER	DATE APPLIED	DATE APPROVED	DATE DENIED
NJDEP	Coastal GP 24		concurrently		

* Would include but is not restricted to zoning, building, and flood plain permits

27. Application is hereby made for permit or permits to authorize the work described in this application. I certify that this information in this application is complete and accurate. I further certify that I possess the authority to undertake the work described herein or am acting as the duly authorized agent of the applicant.

Susan R. Marshall
SIGNATURE OF APPLICANT

DATE

Everett Halloran
SIGNATURE OF AGENT

5/14/18
DATE

The Application must be signed by the person who desires to undertake the proposed activity (applicant) or it may be signed by a duly authorized agent if the statement in block 11 has been filled out and signed.

18 U.S.C. Section 1001 provides that: Whoever, in any manner within the jurisdiction of any department or agency of the United States knowingly and willfully falsifies, conceals, or covers up any trick, scheme, or disguises a material fact or makes any false, fictitious or fraudulent statements or representations or makes or uses any false writing or document knowing same to contain any false, fictitious or fraudulent statements or entry, shall be fined not more than \$10,000 or imprisoned not more than five years or both.



REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
PHILADELPHIA DISTRICT, CORPS OF ENGINEERS
WANAMAKER BUILDING, 100 PENN SQUARE EAST
PHILADELPHIA, PENNSYLVANIA 19107-3390

October 18, 1995

CENAP-OP-R-Coastal Zone Management (New Jersey and Pennsylvania)

PUBLIC NOTICE

SUBJECT: "Consistency Certification" with Approved State Coastal Zone Management Program

Federal regulations require that applicants for Department of the Army permits to perform work which falls under the jurisdiction of a State with a Coastal Zone Management (CZM) Program approved by the Secretary of Commerce, MUST PROVIDE CONSISTENCY CERTIFICATION. The certification statement must accompany the application for a Department of the Army permit.

On September 29, 1978 and September 29, 1980, respectively, CZM Programs were approved for the State of New Jersey and the Commonwealth of Pennsylvania by the Department of Commerce. Therefore, all applications for Department of the Army permits for work in their designated Coastal Zones must contain a consistency statement.

The statement should be as follows:

"The proposed activity complies with and will be conducted in a manner that is consistent with the approved State Coastal Zone Management Program."


Signature of Applicant

Additional information concerning the approved Coastal Zone Management Programs can be obtained by contacting:

State of New Jersey

New Jersey Department of
Environmental Protection
Land Use Regulation Program
CN 401
Trenton, New Jersey 08625-0401
Telephone Number - (609) 292-0060

Commonwealth of Pennsylvania

Pennsylvania Department of
Environmental Protection
Division of Coastal Programs
P.O. Box 8555
Harrisburg, Pennsylvania 17105-8555
Telephone Number - (717) 787-2529


FRANK J. CIANFRANI
Chief, Regulatory Branch



REPLY TO
ATTENTION OF

CERTIFIED MAIL- RETURN RECEIPT REQUESTED

DEPARTMENT OF THE ARMY
PHILADELPHIA DISTRICT CORPS OF ENGINEERS
WANAMAKER BUILDING, 100 PENN SQUARE EAST
PHILADELPHIA, PENNSYLVANIA 19107-3390

MAY 14 2018

Regulatory Branch
Application Section II

SUBJECT: CENAP-OP-R-2017-00775-95 (NWP 13)
Township of Little Egg Harbor – Iowa Court Bank Stabilization at Great Bay,
Township of Little Egg Harbor, Ocean County, New Jersey
Latitude: 39.541906°N Longitude: -74.380022°W

Raymond Gormley
Township of Little Egg Harbor
665 Radio Road
Little Egg Harbor, NJ 08087

Dear Mr. Gormley:

This is in regard to your proposal to stabilize the shoreline of Great Bay at Iowa Court in the Township of Little Egg Harbor, Ocean County, New Jersey. Specifically, construction of an approximately 0.349-acre marsh sill comprised of 760-linear feet of timber sheeting, 2,260-cubic yards of stone fill, and 50-cubic yards of rip-rap stone revetment; and vegetative stabilization consisting of a discharge of approximately 2,625-cubic yards sand fill into of 0.721-acres of degraded tidal marsh, with subsequent plantings of native species, shall be undertaken.

Under current Federal regulations, a Department of the Army permit is required for work or structures in navigable waters of the United States and/or the discharge of dredged or fill material into waters of the United States including wetlands.

Based upon our review of the information you have provided, it has been determined that your project is approved by existing Department of the Army Nationwide Permit Number 13 (NWP 13) described below, provided the work is conducted in compliance with the NWP general conditions, regional conditions, and the project specific special conditions.

NWP 13. Bank Stabilization. Bank stabilization activities necessary for erosion control or prevention, such as vegetative stabilization, bioengineering, sills, rip rap, revetment, gabion baskets, stream barbs, and bulkheads, or combinations of bank stabilization techniques, provided the activity meets all of the following criteria:

- (a) No material is placed in excess of the minimum needed for erosion protection;
- (b) The activity is no more than 500 feet in length along the bank, unless the district engineer waives this criterion by making a written determination concluding that the discharge will result in no more than minimal adverse environmental effects (an exception

is for bulkheads—the district engineer cannot issue a waiver for a bulkhead that is greater than 1,000 feet in length along the bank);

(c) The activity will not exceed an average of one cubic yard per running foot, as measured along the length of the treated bank, below the plane of the ordinary high water mark or the high tide line, unless the district engineer waives this criterion by making a written determination concluding that the discharge will result in no more than minimal adverse environmental effects;

(d) The activity does not involve discharges of dredged or fill material into special aquatic sites, unless the district engineer waives this criterion by making a written determination concluding that the discharge will result in no more than minimal adverse environmental effects;

(e) No material is of a type, or is placed in any location, or in any manner, that will impair surface water flow into or out of any waters of the United States;

(f) No material is placed in a manner that will be eroded by normal or expected high flows (properly anchored native trees and treetops may be used in low energy areas);

(g) Native plants appropriate for current site conditions, including salinity, must be used for bioengineering or vegetative bank stabilization;

(h) The activity is not a stream channelization activity; and

(i) The activity must be properly maintained, which may require repairing it after severe storms or erosion events. This NWP authorizes those maintenance and repair activities if they require authorization.

This NWP also authorizes temporary structures, fills, and work, including the use of temporary mats, necessary to construct the bank stabilization activity. Appropriate measures must be taken to maintain normal downstream flows and minimize flooding to the maximum extent practicable, when temporary structures, work, and discharges, including cofferdams, are necessary for construction activities, access fills, or dewatering of construction sites. Temporary fills must consist of materials, and be placed in a manner, that will not be eroded by expected high flows. After construction, temporary fills must be removed in their entirety and the affected areas returned to pre-construction elevations. The areas affected by temporary fills must be revegetated, as appropriate.

Notification: The permittee must submit a pre-construction notification to the district engineer prior to commencing the activity if the bank stabilization activity: (1) Involves discharges into special aquatic sites; or (2) is in excess of 500 feet in length; or (3) will involve the discharge of greater than an average of one cubic yard per running foot as measured along the length of the treated bank, below the plane of the ordinary high water mark or the high tide line. (See general condition 32.)

[Authorities: Section 10 of the Rivers and Harbors Act of 1899 and section 404 of the Clean Water Act (Sections 10 and 404)]

You are advised that this verification of NWP authorization is valid until the Nationwide Permits expire on **March 18, 2022**, unless the NWP authorization is modified, suspended, or revoked prior to this date. In the event that the NWP authorization is modified during that time period, this expiration date will remain valid, provided the activity complies with any subsequent modification of the NWP authorization.

It is noted that CZM consistency from the State is only required for those activities in or affecting a State's coastal zone. Additionally, some of the NWPs do not involve a discharge of dredged or fill material, and as such, do not require a 401 WQC. If the State has denied the required WQC and/or not concurred with the Corps' CZM consistency determination, the NWP authorization is considered denied without prejudice until an individual project specific WQC and/or CZM approval is obtained.

The State of New Jersey has denied 401 WQC and has not concurred with CZM consistency during the issuance of Philadelphia District's regional conditions for NWP 13. Therefore, you are being directed to seek further review by the state in which they will attach the required Federal consistency determination and certification as part of their review as applicable. This approval must be obtained in order for the activity to be authorized under the NWP and a copy provided to this office before work begins. Any project specific conditions required by the State for the WQC and/or CZM approval will automatically become part of the NWP authorization.

The activities authorized by this NWP verification must comply with the NWP General Conditions, as applicable, in addition to any regional or case-specific conditions imposed by the division engineer or district engineer. A copy of the NWP General Conditions and the Philadelphia District 2017 NWP Regional Permit Conditions for New Jersey for which this verification is subject to, can be found at:

<http://www.nap.usace.army.mil/Portals/39/docs/regulatory/publicnotices/2017%20Nationwide%20Permit%20General%20Conditions.pdf>

http://www.nap.usace.army.mil/Portals/39/docs/regulatory/publicnotices/2017_NJ_Reg_Cond_Final.pdf

In instances where you are unable to access a digital copy of the 2017 NWP General conditions and/or the 2017 NWP Regional Permit Conditions for New Jersey, a hard copy will be transmitted by registered mail to you per request. It is further noted that you may request a copy by email at any time in which the NWP General Conditions and Regional Permit Conditions will be provided to you by facsimile or other electronic means per your request.

Activities which have commenced (i.e, are under construction) or are under contract to commence in reliance upon an NWP will remain authorized provided the activity is completed within twelve months of the date of an NWP's expiration, modification, or revocation, unless discretionary authority has been exercised on a case-by-case basis to modify, suspend, or revoke

the authorization in accordance with 33 CFR 330.4(e) and 33 CFR 330.5 (c) or (d). Activities completed under the authorization of an NWP which was in effect at the time the activity was completed continue to be authorized by that NWP.

You should carefully note that this NWP authorization is based upon your agreement to comply with the terms and conditions of this NWP including any and all attached project specific special conditions listed below. Initiation of any authorized work shall constitute your agreement to comply with all of the NWP's conditions. You should also note that the authorized work may be subject to periodic inspections by a representative of this office. The verification of a Nationwide Permit including all general and special conditions is not subject to appeal.

PROJECT SPECIFIC SPECIAL CONDITIONS:

1. All work performed in association with the above noted project shall be conducted in accordance with the attached project plans identified as E-1 through E-4, all prepared by T&M Associates; E-1 entitled "Plans for Iowa Court Living Shoreline", dated 28 March 2018; E-2 entitled "Site Plan", dated 25 April 2018; E-3 entitled "Landscaping Plan", dated 25 April 2018; and E-4 entitled "Construction Details", dated 25 April 2018.
2. Construction activities shall not result in the permanent disturbance or alteration of greater than 1.30-acres of waters of the United States.
3. Any deviation in construction methodology or project design from that shown on the above noted drawings or repair plan must be approved by this office, in writing, prior to performance of the work. All modifications to the above noted project plans shall be approved, in writing, by this office. No work shall be performed prior to written approval of this office.
4. This office shall be notified prior to the commencement of authorized work by completing and signing the enclosed Notification/ Certification of Work Commencement Form (Enclosure 1). This office shall also be notified within 10 days of the completion of the authorized work by completing and signing the enclosed Notification/Certification of Work Completion/Compliance Form (Enclosure 2). All notifications required by this condition shall be in writing. The Notification of Commencement of work may be sent to this office by facsimile or other electronic means; all other notification shall be transmitted to this office by registered mail. Oral notifications are not acceptable. Similar notification is required each time maintenance work is to be done under the terms of this Corps of Engineers permit.
5. The permittee understands and agrees that, if future operations by the United States require the removal, relocation, or other alteration, of the structure or work herein authorized, or if, in the opinion of the Secretary of the Army or his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the permittee will be required, upon due notice from the Corps of Engineers, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim shall be made against the United States on account of any such removal or alteration.
6. To ensure compliance with Regional Condition – 6 (G-6) to protect Essential Fish Habitat (EFH) species, their prey species, and/or their habitats, in-water work shall NOT be performed

between 01 January and 30 June of any given calendar year. Additionally, the permittee shall ensure that all structures installed within waters of the U.S. are constructed with non-polluting material, such as plastic, natural cedar or other untreated wood, polymer coated pressure-treated wood, concrete or other inert products. Examples of commonly used treated materials are creosote, pressure-treated lumber (i.e. preservative treatment such as CCA-C, ACZA, CC, ACQ, etc.) (wolmanized), which are susceptible to leaching and considered polluting materials, are NOT acceptable for the purpose of this permit.

7. The permittee shall ensure that visible signage and markings of in-water project structures and work areas are displayed in accordance with all applicable federal, state, and local regulations.

Also enclosed is a pre-addressed postal card (Enclosure 3) soliciting your comments on the processing of your application. Any comments, positive or otherwise, on the procedures, timeliness, fairness, etc., may be made on this card. If you should have any questions regarding this matter, please contact Mr. Robert Youhas of my staff at 215-656-6729 or write to the above address.

Sincerely,

A handwritten signature in dark ink, appearing to read "Edward E. Bonner". The signature is fluid and cursive, with a prominent initial "E".

Edward E. Bonner
Chief, Regulatory Branch

Enclosures

MEMORANDUM FOR RECORD

SUBJECT: Department of the Army Memorandum Documenting General Permit Verification

1.0 Introduction and overview: Information about the proposal subject to one or more of the Corps regulatory authorities is provided in Section 1, detailed evaluation of the activity is found in Sections 2 through 4 and findings are documented in Section 5 of this memorandum. Further, summary information about the activity including administrative history of actions taken during project evaluation is attached (ORM2 summary).

1.1 Applicant name:

Township of Little Egg Harbor
Attn: Raymond Gormley
665 Radio Road
Little Egg Harbor, NJ 08087

1.2 Activity location:

Great Bay at Iowa Court in the Township of Little Egg Harbor, Ocean County, New Jersey.

1.3 Description of activity requiring verification:

Stabilize the shoreline of Great Bay at Iowa Court in the Township of Little Egg Harbor, Ocean County, New Jersey. Specifically, construction of an approximately 0.349-acre marsh sill comprised of 760-linear feet of timber sheeting, 2,260-cubic yards of stone fill, and 50-cubic yards of rip-rap stone revetment; and vegetative stabilization consisting of a discharge of approximately 2,625-cubic yards sand fill into of 0.721-acres of degraded tidal marsh, with subsequent plantings of native species, was proposed to be undertaken.

1.4 Permit authority: Section 10 of the Rivers and Harbors Act of 1899 (33 USC 403) and Section 404 of the Clean Water Act (33 USC 1344)

1.5 Applicable Permit:

Nationwide General Permit Number 13 Bank Stabilization.

1.6 Activity requires written waiver? No

2.0 Evaluation of the Pre-Construction Notification

2.1 Direct and indirect effects caused by the GP activity:

Given the proposed in-water work comprised of stabilization of an eroded shoreline from scour action, direct and indirect effects are anticipated to be both minimal and temporary.

Direct effects would include acoustic and turbidity effects during bank stabilization activities. These direct effects would be temporary, with turbid conditions dissipating minutes after the conclusion of the in-water work activities; and acoustic effects terminating within seconds after work has been completed. No indirect effects are anticipated.

- 2.2 Site specific factors: The permit area is comprised predominantly of sand and silt. No special aquatic sites are present within the permit area. Submerged aquatic vegetation (SAV) is not known to be present within the permit area. According to the January 1963 Distribution of Shellfish Resources Map: “Little Egg Harbor to Longport”, prepared by the New Jersey Department of Environmental Protection, the permit area is mapped for “moderate value commercial hard clam”.

2.3 Coordination

- 2.3.1 Was the PCN coordinated with other agencies? No

If yes, describe results including resolution of any concerns. Not Applicable (N/A)

- 2.3.2 Was the PCN coordinated with other Corps offices? No

If yes, describe results including resolution of any concerns: N/A

2.4 Mitigation

- 2.4.1 Provide brief description of how the activity has been designed on-site to avoid and minimize adverse effects, both temporary and permanent, to waters of the United States to the maximum extent practicable at the project site:

Avoidance and minimization measures for the project include restricting the permit area to the minimum area required to safely complete the shoreline stabilization work. Additionally, to minimize potential adverse effects to the aquatic environment, specifically Essential Fish Habitat, the following Special Condition will be included in the permit:

“To ensure compliance with Regional Condition – 6 (G-6) to protect Essential Fish Habitat (EFH) species, their prey species, and/or their habitats, in-water work shall NOT be performed between 01 January and 30 June of any given calendar year. Additionally, the permittee shall ensure that all structures installed within waters of the U.S. are constructed with non-polluting material, such as plastic, natural cedar or other untreated wood, polymer coated pressure-treated wood, concrete or other inert products. Examples of commonly used treated materials are creosote, pressure-

treated lumber (i.e. preservative treatment such as CCA-C, ACZA, CC, ACQ, etc.) (wolmanized), which are susceptible to leaching and considered polluting materials, are NOT acceptable for the purpose of this permit.”

- 2.4.2 Is compensatory mitigation required for unavoidable impacts to jurisdictional aquatic resources to reduce the individual and cumulative adverse environmental effects to a minimal level? No

Provide rationale:

USACE is not requiring compensatory mitigation for this project as impacts to waters of the U.S. will be temporary and have been minimized to the greatest extent practicable for completing the shoreline stabilization activities.

- 2.4.3 Type and location of compensatory mitigation

Is the impact in the service area of an approved mitigation bank? No

If yes, does the mitigation bank have appropriate number and resource type of credits available? N/A

Is the impact in the service area of an approved in-lieu fee program? N/A

If yes, does the in-lieu fee program have the appropriate number and resource type of credits available? N/A

Selected compensatory mitigation type/location(s): See Table 1

Table 1: Mitigation Type and Location	
Mitigation bank credits	
In-lieu fee program credits	
Permittee-responsible mitigation under a watershed approach	
Permittee-responsible mitigation, on-site and in-kind	
Permittee-responsible mitigation, off-site and/or out of kind	

Does the selected compensatory mitigation option deviate from the order of the options presented in §332.3(b)(2)-(6)? N/A

If yes, provide the rationale for the deviation, including the likelihood for ecological success and sustainability, location of the compensation site relative to the impact site and their significance within the watershed, and/or the costs of the compensatory mitigation project (see 33 CFR §332.3(a)(1)): N/A

- 2.4.4 Amount of compensatory mitigation: N/A

Rationale for required compensatory mitigation amount: N/A

- 2.4.5 For permittee responsible mitigation identified in 2.4.3 above, the final mitigation plan must include the items described in 33 CFR 332.4(c)(2) through (c)(14) at a level of detail commensurate with the scale and scope of the impacts. As an alternative, the district engineer may determine that it would be more appropriate to address any of the items described in (c)(2) through (c)(14) as permit conditions, instead of components of a compensatory mitigation plan. Presence of sufficient information related to each of these requirements in the applicant's mitigation plan is indicated by "Yes" in Table 2. "No" indicates absence or insufficient information in the plan, in which case, additional rationale must be provided below on how these requirements will be addressed through special conditions or why a special condition is not required.

Table 2: Permittee-Responsible Mitigation Plan Requirements		
Requirement	Yes	No
Objectives		
Site selection		
Site protection instrument		
Baseline information		
Determination of credits		
Mitigation work plan		
Maintenance plan		
Performance standards		
Monitoring requirements		
Long-term management plan		
Adaptive management plan		
Financial assurances		
Other		

For any "no", provide rationale on how the subject component(s) of the compensatory mitigation plan will be addressed as special conditions or why no special conditions are required: N/A

3.0 Compliance with Other Laws, Policies and Requirements

3.1 Section 7(a)(2) of the Endangered Species Act (ESA)

3.1.1 ESA action area:

The action area for ESA-managed species is aquatic-based only and comprises an approximately 1.30-acre area where the proposed shoreline stabilization activities are located. Aquatic-based ESA-managed species which may occur or transit across the permit include sea turtles and Atlantic sturgeon. A "Not Likely to Adversely Affect (NLAA) Program Verification Form" was not prepared for submittal to NMFS-Protected Resources Division (NMFS-PRD) as USACE determines that the work would have no effect to sea turtles or Atlantic sturgeon. USACE's determination is

based on the shallow water depths at the permit area of 1.63-feet Mean High Water and -1.59-feet Mean Low Water.

Given the relatively small permit area, the turbidity plume is anticipated to rapidly dissipate with localized turbidity effects confined to the immediate area of the shoreline stabilization work.

- 3.1.2 Has another federal agency taken steps to document compliance with Section 7 of the ESA and completed consultation(s) as required? No

If yes, identify that agency, the actions taken to document compliance with Section 7 and whether those actions are sufficient to ensure the activity(s) requiring DA authorization is in compliance with Section 7 of the ESA:

Additional consultation is necessary to ensure compliance of the regulated activity with Section 7 of the ESA.

- 3.1.3 Known species/critical habitat present? Yes

Aquatic-based ESA-managed species which may occur or transit across the permit area include sea turtles and Atlantic sturgeon.

Effect determination(s), including no effect, for all known species/habitat, and basis for determination(s):

Given the one-time shoreline stabilization work proposed, and the presence of alternate zones of passage which would effectively allow ESA-listed species to avoid the permit area and turbidity plume entirely, the Corps' determination is "no effect" for aquatic-based ESA-listed species.

- 3.1.4 Consultation with either the National Marine Fisheries Service and/or the U.S. Fish and Wildlife Service was initiated and completed as required, for any determinations other than "no effect" (see the attached "Summary" sheet for begin date, end date and closure method of the consultation). Based on a review of the information above, the Corps has determined that it has fulfilled its responsibilities under Section 7(a)(2) of the ESA.

3.2 **Magnuson-Stevens Fishery Conservation and Management Act, Essential Fish Habitat (EFH)**

- 3.2.1 Has another federal agency taken steps to comply with EFH provisions of Magnuson-Stevens Act? No

If yes, identify that agency, the actions taken to document compliance with the Magnuson-Stevens Act and whether those actions are sufficient to ensure the activity(s) requiring DA authorization is in compliance with the EFH provisions:
Additional consultation is necessary to ensure compliance of the regulated activity with EFH provisions of the Magnuson Stevens Act.

3.2.2 Did the proposed project require review under the Magnuson-Stevens Act? Yes

3.2.3 If yes, EFH species or complexes considered:

Atlantic cod (adults)
Red Hake (eggs, larvae, juveniles, adults)
Winter Flounder (eggs, larvae, juveniles, adults)
Windowpane Flounder (eggs, larvae, juveniles, adults)
Atlantic Sea Herring (juveniles, adults)
Monkfish (eggs, larvae, adults)
Bluefish (juveniles, adults)
Atlantic Butterfish (juveniles)
Summer Flounder (larvae, juveniles, adults)
Scup (juveniles)
Black Sea Bass (juveniles, adults)
King Mackerel (eggs, larvae, juveniles, adults)
Spanish Mackerel (eggs, larvae, juveniles, adults)
Cobia (eggs, larvae, juveniles, adults)
Dusky Shark (larvae)
Sandbar Shark (larvae, juveniles, adults)
Tiger Shark (larvae)

Effect determination and basis for that determination:

The Corps' determination is the project may adversely affect EFH but any effects would not be substantial given the relatively small permit area, the temporary nature of the work, and the overall work scope being minor-in-nature. To minimize potential adverse effects to EFH, the following Special Condition will be included in the permit:

"To ensure compliance with Regional Condition – 6 (G-6) to protect Essential Fish Habitat (EFH) species, their prey species, and/or their habitats, in-water work shall NOT be performed between 01 January and 30 June of any given calendar year. Additionally, the permittee shall ensure that all structures installed within waters of the U.S. are constructed with non-polluting material, such as plastic, natural cedar or other untreated wood, polymer coated pressure-treated wood, concrete or other inert products. Examples of commonly used treated materials are creosote, pressure-treated lumber (i.e. preservative treatment such as CCA-C, ACZA, CC, ACQ, etc.) (wolmanized), which are susceptible to leaching and considered polluting materials, are NOT acceptable for the purpose of this permit."

Based on a review of the above information, the Corps has determined that it has fulfilled its responsibilities under EFH provisions of the Magnuson-Stevens Act.

3.3 Section 106 of the National Historic Preservation Act (Section 106)

- 3.3.1 Section 106 permit area: The permit area includes only those areas comprising waters of the United States that will be directly affected by the proposed work or structures. Activities outside of waters of the U.S. are not included because all three tests identified in 33 CFR 325, Appendix C(g)(1) have not been met.

Final description of the permit area:

The permit area for the project is comprised of the permit area footprint where the shoreline stabilization work is proposed (approximately 1.3-acres).

- 3.3.2 Has another federal agency taken steps to comply with Section 106 of the National Historic Preservation Act and completed consultation(s) as required? No

If yes, identify that agency, the actions taken to document compliance with Section 106 and whether those actions are sufficient to ensure the activity(s) requiring DA authorization is in compliance with Section 106 of the NHPA: N/A

- 3.3.3 Known cultural resource sites present and/or survey or other additional information needed? No.

Basis for effect determination(s) for all known site(s) and/or site(s) identified by a survey:

Given that the proposed work is of such limited nature and scope, little likelihood exists for the proposed project to impact a cultural resource or historic property, none of which are known to exist within the permit area. The Township of Little Egg Harbor stated in their permit application that, "Based on NJDEP GIS maps and the New Jersey and National Registers of Historic Places for Ocean County, the project is not identified as containing historic resources. The proposed shoreline stabilization work does not involve any development which could impact any potential historic or archaeological resources."

- 3.3.4 Consultation was initiated and completed as required with the appropriate agencies, tribes and/or other parties for any determinations other than "no potential to cause effects" (see the attached "Summary" sheet for consultation type, begin date, end date and closure method of the consultation). The Corps has determined that it has fulfilled its responsibilities under Section 106 of the NHPA.

3.4 Tribal Trust Responsibilities

- 3.4.1 Was government-to-government consultation conducted with Federally-recognized Tribe(s)? No

Provide a description of any consultation(s) conducted including results and how concerns about significant effects to protected tribal resources, tribal rights and/or Indian lands were addressed. The Corps has determined that it has fulfilled its tribal trust responsibilities.

3.5 Section 401 of the Clean Water Act – Water Quality Certification (WQC)

- 3.5.1 Is a Section 401 WQC required, and if so, has the certification been issued or waived? An individual water quality certification is required, and has not been issued or waived to date. A provisional general permit will be verified for this activity.

3.6 Coastal Zone Management Act (CZMA)

- 3.6.1 Is a CZMA consistency concurrence required, and if so, has the concurrence been issued, waived or presumed? An individual CZMA consistency concurrence is required and has not been issued, waived or presumed to date. A provisional general permit will be verified for this activity.

3.7 Wild and Scenic Rivers Act

- 3.7.1 Is the project located in a component of the National Wild and Scenic River System, or in a river officially designated by Congress as a “study river” for possible inclusion in the system? No

If yes, summarize coordination and the determination on whether activity will adversely affect the Wild and Scenic River designation or study status. The Corps has determined that it has fulfilled its responsibilities under the Wild and Scenic Rivers Act.

3.8 Effects on Corps Civil Works Projects (33 USC 408)

- 3.8.1 Does the applicant also require permission under Section 14 of the Rivers and Harbors Act (33 USC 408) because the activity, in whole or in part, would alter, occupy, or use a Corps Civil Works project? No, there are no Corps Civil Works project(s) in or near the vicinity of the proposal.

If yes, provide date permission is provided: N/A

4.0 Special Conditions

- 4.1 Are special conditions required to ensure minimal effects, protect the public interest and/or ensure compliance of the activity with any of the laws above? Yes

If no, provide rationale: N/A

4.2 Required special condition(s)

Special Condition 1:

“All work performed in association with the above noted project shall be conducted in accordance with the attached project plans identified as E-1 through E-4, all prepared by T&M Associates; E-1 entitled “Plans for Iowa Court Living Shoreline”, dated 28 March 2018; E-2 entitled “Site Plan”, dated 25 April 2018; E-3 entitled “Landscaping Plan”, dated 25 April 2018; and E-4 entitled “Construction Details”, dated 25 April 2018.”

Rationale for Special Condition 1:

This is a standard permit condition.

Special Condition 2:

“Construction activities shall not result in the permanent disturbance or alteration of greater than 1.30-acres of waters of the United States.”

Rationale for Special Condition 2:

This is a standard permit condition which restricts the permittee to the minimum area required for completion of project activities.

Special Condition 3:

“Any deviation in construction methodology or project design from that shown on the above noted drawings or repair plan must be approved by this office, in writing, prior to performance of the work. All modifications to the above noted project plans shall be approved, in writing, by this office. No work shall be performed prior to written approval of this office.”

Rationale for Special Condition 3:

This is a standard permit condition.

Special Condition 4:

“This office shall be notified prior to the commencement of authorized work by completing and signing the enclosed Notification/ Certification of Work Commencement Form (Enclosure 1). This office shall also be notified within 10 days of the completion of the authorized work by completing and signing the enclosed Notification/Certification of Work Completion/Compliance Form (Enclosure 2). All notifications required by this condition shall be in writing. The Notification of Commencement of work may be sent to this office by facsimile or other electronic means; all other notification shall be transmitted to this office by registered

mail. Oral notifications are not acceptable. Similar notification is required each time maintenance work is to be done under the terms of this Corps of Engineers permit.”

Rationale for Special Condition 4:

This is a standard permit condition.

Special Condition 5:

“The permittee understands and agrees that, if future operations by the United States require the removal, relocation, or other alteration, of the structure or work herein authorized, or if, in the opinion of the Secretary of the Army or his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the permittee will be required, upon due notice from the Corps of Engineers, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim shall be made against the United States on account of any such removal or alteration.”

Rationale for Special Condition 5:

This is a standard permit condition.

Special Condition 6:

“To ensure compliance with Regional Condition – 6 (G-6) to protect Essential Fish Habitat (EFH) species, their prey species, and/or their habitats, in-water work shall NOT be performed between 01 January and 30 June of any given calendar year. Additionally, the permittee shall ensure that all structures installed within waters of the U.S. are constructed with non-polluting material, such as plastic, natural cedar or other untreated wood, polymer coated pressure-treated wood, concrete or other inert products. Examples of commonly used treated materials are creosote, pressure-treated lumber (i.e. preservative treatment such as CCA-C, ACZA, CC, ACQ, etc.) (wolmanized), which are susceptible to leaching and considered polluting materials, are NOT acceptable for the purpose of this permit.”

Rationale for Special Condition 6;

To protect the aquatic environment, and minimize, to the greatest extent practicable, effects to the habitats and various life stages of aquatic organisms.

Special Condition 7:

“The permittee shall ensure that visible signage and markings of in-water project structures and work areas are displayed in accordance with all applicable federal, state, and local regulations.”

Rationale for Special Condition 7:

This condition is included in the permit to make mariners visibly aware of in-water structures which may pose a navigation hazard.

5.0 Determination

5.1 Waiver request conclusion, if required or select N/A: N/A

5.2 The activity will result in no more than minimal individual and cumulative adverse effects on the aquatic environment and will not be contrary to the public interest, provided the permittee complies with the special conditions identified above.

5.3 This activity, as described, complies with all terms and conditions of the permits identified in Section 1.5.

PREPARED BY:

Robert Youhas
Biologist, Applications Section II

Date:_____

REVIEWED BY:

Michael H. Hayduk
Chief, Applications Section II

Date:_____

APPROVED BY:

Edward E. Bonner
Chief, Regulatory Branch

Date:_____



REPLY TO
ATTENTION OF

CERTIFIED MAIL- RETURN RECEIPT REQUESTED

DEPARTMENT OF THE ARMY

PHILADELPHIA DISTRICT CORPS OF ENGINEERS
WANAMAKER BUILDING, 100 PENN SQUARE EAST
PHILADELPHIA, PENNSYLVANIA 19107-3390

JUL 02 2018

Regulatory Branch
Application Section II

SUBJECT: CENAP-OP-R-2018-00397-95 (NWP 13)
Tuckerton Borough – Tuckerton Cove Shoreline Stabilization at
South Green Street, Tuckerton Borough, Ocean County, New Jersey
Latitude: 39.578364°N Longitude: -74.333149°W

Tuckerton Borough
Attn: Susan Marshall
420 East Main Street
Tuckerton, NJ 08087

Dear Ms. Marshall:

This is in regard to your proposal to stabilize the shoreline of Tuckerton Cove at South Green Street in Tuckerton Borough, Ocean County, New Jersey. Specifically, an approximately 225-foot long by 28-foot wide breakwater structure comprised of 885-cubic yards of stone rip-rap shall be constructed approximately 120-linear feet offshore from the existing plane of Mean High Water of Tuckerton Cove at South Green Street. Additionally, approximately 454-cubic yards of sand fill shall be discharged below the plane of Mean High Water along 0.07-acres of eroded shoreline at Tuckerton Cove at South Green Street.

Under current Federal regulations, a Department of the Army permit is required for work or structures in navigable waters of the United States and/or the discharge of dredged or fill material into waters of the United States including wetlands.

Based upon our review of the information you have provided, it has been determined that your project is approved by existing Department of the Army Nationwide Permit Number 13 (NWP 13) described below, provided the work is conducted in compliance with the NWP general conditions, regional conditions, and the project specific special conditions.

NWP 13. Bank Stabilization. Bank stabilization activities necessary for erosion control or prevention, such as vegetative stabilization, bioengineering, sills, rip rap, revetment, gabion baskets, stream barbs, and bulkheads, or combinations of bank stabilization techniques, provided the activity meets all of the following criteria:

- (a) No material is placed in excess of the minimum needed for erosion protection;
- (b) The activity is no more than 500 feet in length along the bank, unless the district engineer waives this criterion by making a written determination concluding that the discharge will result in no more than minimal adverse environmental effects (an exception

is for bulkheads—the district engineer cannot issue a waiver for a bulkhead that is greater than 1,000 feet in length along the bank);

(c) The activity will not exceed an average of one cubic yard per running foot, as measured along the length of the treated bank, below the plane of the ordinary high water mark or the high tide line, unless the district engineer waives this criterion by making a written determination concluding that the discharge will result in no more than minimal adverse environmental effects;

(d) The activity does not involve discharges of dredged or fill material into special aquatic sites, unless the district engineer waives this criterion by making a written determination concluding that the discharge will result in no more than minimal adverse environmental effects;

(e) No material is of a type, or is placed in any location, or in any manner, that will impair surface water flow into or out of any waters of the United States;

(f) No material is placed in a manner that will be eroded by normal or expected high flows (properly anchored native trees and treetops may be used in low energy areas);

(g) Native plants appropriate for current site conditions, including salinity, must be used for bioengineering or vegetative bank stabilization;

(h) The activity is not a stream channelization activity; and

(i) The activity must be properly maintained, which may require repairing it after severe storms or erosion events. This NWP authorizes those maintenance and repair activities if they require authorization.

This NWP also authorizes temporary structures, fills, and work, including the use of temporary mats, necessary to construct the bank stabilization activity. Appropriate measures must be taken to maintain normal downstream flows and minimize flooding to the maximum extent practicable, when temporary structures, work, and discharges, including cofferdams, are necessary for construction activities, access fills, or dewatering of construction sites. Temporary fills must consist of materials, and be placed in a manner, that will not be eroded by expected high flows. After construction, temporary fills must be removed in their entirety and the affected areas returned to pre-construction elevations. The areas affected by temporary fills must be revegetated, as appropriate.

Notification: The permittee must submit a pre-construction notification to the district engineer prior to commencing the activity if the bank stabilization activity: (1) Involves discharges into special aquatic sites; or (2) is in excess of 500 feet in length; or (3) will involve the discharge of greater than an average of one cubic yard per running foot as measured along the length of the treated bank, below the plane of the ordinary high water mark or the high tide line. (See general condition 32.)

[**Authorities:** Section 10 of the Rivers and Harbors Act of 1899 and section 404 of the Clean Water Act (Sections 10 and 404)]

You are advised that this verification of NWP authorization is valid until the Nationwide Permits expire on **March 18, 2022**, unless the NWP authorization is modified, suspended, or revoked prior to this date. In the event that the NWP authorization is modified during that time period, this expiration date will remain valid, provided the activity complies with any subsequent modification of the NWP authorization.

It is noted that CZM consistency from the State is only required for those activities in or affecting a State's coastal zone. Additionally, some of the NWPs do not involve a discharge of dredged or fill material, and as such, do not require a 401 WQC. If the State has denied the required WQC and/or not concurred with the Corps' CZM consistency determination, the NWP authorization is considered denied without prejudice until an individual project specific WQC and/or CZM approval is obtained.

The State of New Jersey has denied 401 WQC and has not concurred with CZM consistency during the issuance of Philadelphia District's regional conditions for NWP 13. Therefore, you are being directed to seek further review by the state in which they will attach the required Federal consistency determination and certification as part of their review as applicable. This approval must be obtained in order for the activity to be authorized under the NWP and a copy provided to this office before work begins. Any project specific conditions required by the State for the WQC and/or CZM approval will automatically become part of the NWP authorization.

The activities authorized by this NWP verification must comply with the NWP General Conditions, as applicable, in addition to any regional or case-specific conditions imposed by the division engineer or district engineer. A copy of the NWP General Conditions and the Philadelphia District 2017 NWP Regional Permit Conditions for New Jersey for which this verification is subject to, can be found at:

<http://www.nap.usace.army.mil/Portals/39/docs/regulatory/publicnotices/2017%20Nationwide%20Permit%20General%20Conditions.pdf>

http://www.nap.usace.army.mil/Portals/39/docs/regulatory/publicnotices/2017_NJ_Reg_Cond_Final.pdf

In instances where you are unable to access a digital copy of the 2017 NWP General conditions and/or the 2017 NWP Regional Permit Conditions for New Jersey, a hard copy will be transmitted by registered mail to you per request. It is further noted that you may request a copy by email at any time in which the NWP General Conditions and Regional Permit Conditions will be provided to you by facsimile or other electronic means per your request.

Activities which have commenced (i.e., are under construction) or are under contract to commence in reliance upon an NWP will remain authorized provided the activity is completed within twelve months of the date of an NWP's expiration, modification, or revocation, unless discretionary authority has been exercised on a case-by-case basis to modify, suspend, or revoke

the authorization in accordance with 33 CFR 330.4(e) and 33 CFR 330.5 (c) or (d). Activities completed under the authorization of an NWP which was in effect at the time the activity was completed continue to be authorized by that NWP.

You should carefully note that this NWP authorization is based upon your agreement to comply with the terms and conditions of this NWP including any and all attached project specific special conditions listed below. Initiation of any authorized work shall constitute your agreement to comply with all of the NWP's conditions. You should also note that the authorized work may be subject to periodic inspections by a representative of this office. The verification of a Nationwide Permit including all general and special conditions is not subject to appeal.

PROJECT SPECIFIC SPECIAL CONDITIONS:

1. All work performed in association with the above noted project shall be conducted in accordance with the attached project plans identified as E-1 through E-10, all prepared by T&M Associates; E-1 entitled "Plans for South Green Street Living Shoreline", dated 18 May 2018; E-2 entitled "Existing Conditions", dated 21 May 2018; E-3 entitled "Construction Plan", dated 21 May 2018; E-4 entitled "Grading Plan", dated 21 May 2018; E-5 entitled "Cross Sections", dated 21 May 2018; E-6 also entitled "Cross Sections", dated 21 May 2018; and E-7 entitled "Construction Details", dated 18 May 2018.
2. Construction activities shall not result in the permanent disturbance or alteration of greater than 0.70-acres of waters of the United States.
3. Any deviation in construction methodology or project design from that shown on the above noted drawings or repair plan must be approved by this office, in writing, prior to performance of the work. All modifications to the above noted project plans shall be approved, in writing, by this office. No work shall be performed prior to written approval of this office.
4. This office shall be notified prior to the commencement of authorized work by completing and signing the enclosed Notification/ Certification of Work Commencement Form (Enclosure 1). This office shall also be notified within 10 days of the completion of the authorized work by completing and signing the enclosed Notification/Certification of Work Completion/Compliance Form (Enclosure 2). All notifications required by this condition shall be in writing. The Notification of Commencement of work may be sent to this office by facsimile or other electronic means; all other notification shall be transmitted to this office by registered mail. Oral notifications are not acceptable. Similar notification is required each time maintenance work is to be done under the terms of this Corps of Engineers permit.
5. The permittee understands and agrees that, if future operations by the United States require the removal, relocation, or other alteration, of the structure or work herein authorized, or if, in the opinion of the Secretary of the Army or his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the permittee will be required, upon due notice from the Corps of Engineers, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim shall be made against the United States on account of any such removal or alteration.

6. To ensure compliance with Regional Condition – 6 (G-6) for protection of Essential Fish Habitat (EFH) species, their prey species, and their habitats, in-water work shall NOT be performed between 01 January and 30 June of any given calendar year.

7. The permittee shall ensure that visible signage and markings of in-water project structures and work areas are displayed in accordance with all applicable federal, state, and local regulations.

Also enclosed is a pre-addressed postal card (Enclosure 3) soliciting your comments on the processing of your application. Any comments, positive or otherwise, on the procedures, timeliness, fairness, etc., may be made on this card. If you should have any questions regarding this matter, please contact Mr. Robert Youhas of my staff at 215-656-6729 or write to the above address.

Sincerely,

A handwritten signature in dark ink, appearing to read "Edward E. Bonner", written in a cursive style.

Edward E. Bonner
Chief, Regulatory Branch

Enclosures

MEMORANDUM FOR RECORD

SUBJECT: Department of the Army Memorandum Documenting General Permit Verification

1.0 Introduction and overview: Information about the proposal subject to one or more of the Corps regulatory authorities is provided in Section 1, detailed evaluation of the activity is found in Sections 2 through 4 and findings are documented in Section 5 of this memorandum. Further, summary information about the activity including administrative history of actions taken during project evaluation is attached (ORM2 summary).

1.1 Applicant name:

Tuckerton Borough
Attn: Susan Marshall
420 East Main Street
Tuckerton, New Jersey 08087

1.2 Activity location:

Tuckerton Cove at South Green Street in Tuckerton Borough, Ocean County, New Jersey

1.3 Description of activity requiring verification:

Stabilize the shoreline of Tuckerton Cove at South Green Street in Tuckerton Borough, Ocean County, New Jersey. Specifically, an approximately 225-foot long by 28-foot wide breakwater structure comprised of 885-cubic yards of stone rip-rap would be constructed approximately 120-linear feet offshore from the existing plane of Mean High Water of Tuckerton Cove at South Green Street. Additionally, approximately 454-cubic yards of sand fill would be discharged below the plane of Mean High Water along 0.07-acres of eroded shoreline at Tuckerton Cove at South Green Street.

1.4 Permit authority: Section 10 of the Rivers and Harbors Act of 1899 (33 USC 403) and Section 404 of the Clean Water Act (33 USC 1344)

1.5 Applicable Permit:

Nationwide General Permit Number 13 Bank Stabilization.

1.6 Activity requires written waiver? No

2.0 Evaluation of the Pre-Construction Notification

2.1 Direct and indirect effects caused by the GP activity:

Given the proposed in-water work comprised of stabilization of an eroded shoreline from scour action, direct and indirect effects are anticipated to be both minimal and temporary.

Direct effects would include acoustic and turbidity effects during bank stabilization activities. These direct effects would be temporary, with turbid conditions dissipating minutes after the conclusion of the in-water work activities; and acoustic effects terminating within seconds after work has been completed.

No indirect effects are anticipated.

2.2 Site specific factors:

The permit area is comprised predominantly of sand and silt. No special aquatic sites are present within the permit area. Submerged aquatic vegetation (SAV) is not known to be present within the permit area. According to the January 1963 Distribution of Shellfish Resources Map: "Little Egg Harbor to Longport", prepared by the New Jersey Department of Environmental Protection, the permit area is mapped for "moderate value commercial hard clam".

2.3 Coordination

2.3.1 Was the PCN coordinated with other agencies? No

If yes, describe results including resolution of any concerns. Not Applicable (N/A)

2.3.2 Was the PCN coordinated with other Corps offices? No

If yes, describe results including resolution of any concerns: N/A

2.4 Mitigation

2.4.1 Provide brief description of how the activity has been designed on-site to avoid and minimize adverse effects, both temporary and permanent, to waters of the United States to the maximum extent practicable at the project site:

Avoidance and minimization measures for the project include restricting the permit area to the minimum area required to safely complete the shoreline stabilization work. Additionally, to minimize potential adverse effects to the aquatic environment, specifically Essential Fish Habitat, the following Special Condition will be included in the permit:

"To ensure compliance with Regional Condition – 6 (G-6) to protect Essential Fish Habitat (EFH) species, their prey species, and/or their habitats, in-water work shall NOT be performed between 01 January and 30 June of any given calendar year."

components of a compensatory mitigation plan. Presence of sufficient information related to each of these requirements in the applicant's mitigation plan is indicated by "Yes" in Table 2. "No" indicates absence or insufficient information in the plan, in which case, additional rationale must be provided below on how these requirements will be addressed through special conditions or why a special condition is not required.

Table 2: Permittee-Responsible Mitigation Plan Requirements		
Requirement	Yes	No
Objectives		
Site selection		
Site protection instrument		
Baseline information		
Determination of credits		
Mitigation work plan		
Maintenance plan		
Performance standards		
Monitoring requirements		
Long-term management plan		
Adaptive management plan		
Financial assurances		
Other		

For any "no", provide rationale on how the subject component(s) of the compensatory mitigation plan will be addressed as special conditions or why no special conditions are required: N/A

3.0 Compliance with Other Laws, Policies and Requirements

3.1 Section 7(a)(2) of the Endangered Species Act (ESA)

3.1.1 ESA action area:

The action area for ESA-managed species is aquatic-based only and comprises an approximately 0.70-acre area where the proposed shoreline stabilization activities are located. Aquatic-based ESA-managed species which may occur or transit across the permit include sea turtles and Atlantic sturgeon. A "Not Likely to Adversely Affect (NLAA) Program Verification Form" was not prepared for submittal to NMFS-Protected Resources Division (NMFS-PRD) as USACE determines that the work would have no effect to sea turtles or Atlantic sturgeon. USACE's determination is based on the shallow water depths at the permit area of +1.08-feet Mean High Water (NAVD 88) and -1.08-feet Mean Low Water (NAVD 88).

Also, given the relatively small permit area, the turbidity plume is anticipated to rapidly dissipate with localized turbidity effects confined to the immediate area of the shoreline stabilization work.

- 3.1.2 Has another federal agency taken steps to document compliance with Section 7 of the ESA and completed consultation(s) as required? No

If yes, identify that agency, the actions taken to document compliance with Section 7 and whether those actions are sufficient to ensure the activity(s) requiring DA authorization is in compliance with Section 7 of the ESA:

Additional consultation is necessary to ensure compliance of the regulated activity with Section 7 of the ESA.

- 3.1.3 Known species/critical habitat present? Yes

Aquatic-based ESA-managed species which may occur or transit across the permit area include sea turtles and Atlantic sturgeon.

Effect determination(s), including no effect, for all known species/habitat, and basis for determination(s):

Given the one-time shoreline stabilization work proposed, and the presence of alternate zones of passage which would effectively allow ESA-listed species to avoid the permit area and turbidity plume entirely, the Corps' determination is "no effect" for aquatic-based ESA-listed species.

- 3.1.4 Consultation with either the National Marine Fisheries Service and/or the U.S. Fish and Wildlife Service was initiated and completed as required, for any determinations other than "no effect" (see the attached "Summary" sheet for begin date, end date and closure method of the consultation). Based on a review of the information above, the Corps has determined that it has fulfilled its responsibilities under Section 7(a)(2) of the ESA.

3.2 Magnuson-Stevens Fishery Conservation and Management Act, Essential Fish Habitat (EFH)

- 3.2.1 Has another federal agency taken steps to comply with EFH provisions of Magnuson-Stevens Act? No

If yes, identify that agency, the actions taken to document compliance with the Magnuson-Stevens Act and whether those actions are sufficient to ensure the activity(s) requiring DA authorization is in compliance with the EFH provisions:
Additional consultation is necessary to ensure compliance of the regulated activity with EFH provisions of the Magnuson Stevens Act.

- 3.2.2 Did the proposed project require review under the Magnuson-Stevens Act? Yes

3.2.3 If yes, EFH species or complexes considered:

Atlantic cod (adults)
Red Hake (eggs, larvae, juveniles)
Winter Flounder (eggs, larvae, juveniles, adults)
Windowpane Flounder (eggs, larvae, juveniles, adults)
Atlantic Sea Herring (juveniles, adults)
Bluefish (adults)
Atlantic Butterfish (juveniles)
Summer Flounder (larvae, juveniles, adults)
Scup (juveniles)
Black Sea Bass (juveniles, adults)
King Mackerel (eggs, larvae, juveniles, adults)
Spanish Mackerel (eggs, larvae, juveniles, adults)
Cobia (eggs, larvae, juveniles, adults)
Dusky Shark (larvae)
Sandbar Shark (larvae, juveniles, adults)

Effect determination and basis for that determination:

The Corps' determination is the project may adversely affect EFH but any effects would not be substantial given the relatively small permit area, the temporary nature of the work, and the overall work scope being minor-in-nature. To minimize potential adverse effects to EFH, the following Special Condition will be included in the permit:

"To ensure compliance with Regional Condition – 6 (G-6) for protection of Essential Fish Habitat (EFH) species, their prey species, and their habitats, in-water work shall NOT be performed between 01 January and 30 June of any given calendar year."

Based on a review of the above information, the Corps has determined that it has fulfilled its responsibilities under EFH provisions of the Magnuson-Stevens Act.

3.3 Section 106 of the National Historic Preservation Act (Section 106)

- 3.3.1 Section 106 permit area: The permit area includes only those areas comprising waters of the United States that will be directly affected by the proposed work or structures. Activities outside of waters of the U.S. are not included because all three tests identified in 33 CFR 325, Appendix C(g)(1) have not been met.

Final description of the permit area:

The permit area for the project is comprised of the permit area footprint where the shoreline stabilization work is proposed (approximately 0.70-acres). The project's footprint is within the shoreline extent that existed in 1970.

- 3.3.2 Has another federal agency taken steps to comply with Section 106 of the National Historic Preservation Act and completed consultation(s) as required? No

If yes, identify that agency, the actions taken to document compliance with Section 106 and whether those actions are sufficient to ensure the activity(s) requiring DA authorization is in compliance with Section 106 of the NHPA: N/A

- 3.3.3 Known cultural resource sites present and/or survey or other additional information needed? No.

Basis for effect determination(s) for all known site(s) and/or site(s) identified by a survey:

USACE's determination is that, given that the proposed work is of such limited nature and scope, little likelihood exists for the proposed project to impact a cultural resource or historic property, none of which are known to exist within the permit area.

- 3.3.4 Consultation was initiated and completed as required with the appropriate agencies, tribes and/or other parties for any determinations other than "no potential to cause effects" (see the attached "Summary" sheet for consultation type, begin date, end date and closure method of the consultation). The Corps has determined that it has fulfilled its responsibilities under Section 106 of the NHPA.

3.4 Tribal Trust Responsibilities

- 3.4.1 Was government-to-government consultation conducted with Federally-recognized Tribe(s)? No
Provide a description of any consultation(s) conducted including results and how concerns about significant effects to protected tribal resources, tribal rights and/or Indian lands were addressed. The Corps has determined that it has fulfilled its tribal trust responsibilities.

3.5 Section 401 of the Clean Water Act – Water Quality Certification (WQC)

- 3.5.1 Is a Section 401 WQC required, and if so, has the certification been issued or waived? An individual water quality certification is required, and has not been issued or waived to date. A provisional general permit will be verified for this activity.

3.6 Coastal Zone Management Act (CZMA)

- 3.6.1 Is a CZMA consistency concurrence required, and if so, has the concurrence been issued, waived or presumed? An individual CZMA consistency concurrence is required and has not been issued, waived or presumed to date. A provisional general permit will be verified for this activity.

3.7 Wild and Scenic Rivers Act

- 3.7.1 Is the project located in a component of the National Wild and Scenic River System, or in a river officially designated by Congress as a "study river" for possible inclusion in the system? No

If yes, summarize coordination and the determination on whether activity will adversely affect the Wild and Scenic River designation or study status. The Corps has determined that it has fulfilled its responsibilities under the Wild and Scenic Rivers Act.

3.8 Effects on Corps Civil Works Projects (33 USC 408)

- 3.8.1 Does the applicant also require permission under Section 14 of the Rivers and Harbors Act (33 USC 408) because the activity, in whole or in part, would alter, occupy, or use a Corps Civil Works project? No, there are no Corps Civil Works project(s) in or near the vicinity of the proposal.

If yes, provide date permission is provided: N/A

4.0 Special Conditions

- 4.1 Are special conditions required to ensure minimal effects, protect the public interest and/or ensure compliance of the activity with any of the laws above? Yes

If no, provide rationale: N/A

- 4.2 Required special condition(s)

Special Condition 1:

"All work performed in association with the above noted project shall be conducted in accordance with the attached project plans identified as E-1 through E-10, all prepared by T&M Associates; E-1 entitled "Plans for South Green Street Living Shoreline", dated 18 May 2018; E-2 entitled "Existing Conditions", dated 21 May 2018; E-3 entitled "Construction Plan", dated 21 May 2018; E-4 entitled "Grading Plan", dated 21 May 2018; E-5 entitled "Cross Sections", dated 21 May 2018; E-6 also entitled "Cross Sections", dated 21 May 2018; and E-7 entitled "Construction Details", dated 18 May 2018."

Rationale for Special Condition 1:

This is a standard permit condition.

Special Condition 2:

"Construction activities shall not result in the permanent disturbance or alteration of greater than 0.70-acres of waters of the United States."

Rationale for Special Condition 2:

This is a standard permit condition which restricts the permittee to the minimum area required for completion of project activities.

Special Condition 3:

“Any deviation in construction methodology or project design from that shown on the above noted drawings or repair plan must be approved by this office, in writing, prior to performance of the work. All modifications to the above noted project plans shall be approved, in writing, by this office. No work shall be performed prior to written approval of this office.”

Rationale for Special Condition 3:

This is a standard permit condition.

Special Condition 4:

“This office shall be notified prior to the commencement of authorized work by completing and signing the enclosed Notification/ Certification of Work Commencement Form (Enclosure 1). This office shall also be notified within 10 days of the completion of the authorized work by completing and signing the enclosed Notification/Certification of Work Completion/Compliance Form (Enclosure 2). All notifications required by this condition shall be in writing. The Notification of Commencement of work may be sent to this office by facsimile or other electronic means; all other notification shall be transmitted to this office by registered mail. Oral notifications are not acceptable. Similar notification is required each time maintenance work is to be done under the terms of this Corps of Engineers permit.”

Rationale for Special Condition 4:

This is a standard permit condition.

Special Condition 5:

“The permittee understands and agrees that, if future operations by the United States require the removal, relocation, or other alteration, of the structure or work herein authorized, or if, in the opinion of the Secretary of the Army or his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the permittee will be required, upon due notice from the Corps of Engineers, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim shall be made against the United States on account of any such removal or alteration.”

Rationale for Special Condition 5:

This is a standard permit condition.

Special Condition 6:

“To ensure compliance with Regional Condition – 6 (G-6) to protect Essential Fish Habitat (EFH) species, their prey species, and/or their habitats, in-water work shall NOT be performed between 01 January and 30 June of any given calendar year.”

Rationale for Special Condition 6;

To protect the aquatic environment, and minimize, to the greatest extent practicable, effects to the habitats and various life stages of aquatic organisms.

Special Condition 7:

“The permittee shall ensure that visible signage and markings of in-water project structures and work areas are displayed in accordance with all applicable federal, state, and local regulations.”

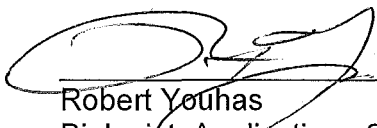
Rationale for Special Condition 7:

This condition is included in the permit to make mariners visibly aware of in-water structures which may pose a navigation hazard.

5.0 Determination

- 5.1 Waiver request conclusion, if required or select N/A: N/A
- 5.2 The activity will result in no more than minimal individual and cumulative adverse effects on the aquatic environment and will not be contrary to the public interest, provided the permittee complies with the special conditions identified above.
- 5.3 This activity, as described, complies with all terms and conditions of the permits identified in Section 1.5.

PREPARED BY:


Robert Youhas
Biologist, Applications Section II

Date: **JUN 28 2018**

REVIEWED BY:

HAYDUK.MICHAEL.H.1228903783

Digitally signed by HAYDUK.MICHAEL.H.1228903783
DN: c=US, o=U.S. Government, ou=DoD, ou=PKI, ou=USA, cn=HAYDUK.MICHAEL.H.1228903783
Date: 2018.06.28 10:50:11 -04'00'

Date: _____

Michael H. Hayduk
Chief, Applications Section II

APPROVED BY:

A handwritten signature in black ink, appearing to read "Edward E. Bonner", written over a horizontal line.

Edward E. Bonner
Chief, Regulatory Branch

Date: June 28, 2018



STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF LAND USE REGULATION
Mail Code 501-02A, P.O. Box 420, Trenton, New Jersey 08625-0420

Telephone: (609) 777-0454 or Fax: (609) 777-3656
www.state.nj.us/dep/landuse



In accordance with the laws and regulations of the State of New Jersey, the Department of Environmental Protection hereby grants this permit to perform the activities described below. This permit is revocable with due cause and is subject to the limitations, terms and conditions listed below and on the attached pages. For the purpose of this document, "permit" means "approval, certification, registration, authorization, waiver, etc." Violation of any term, condition or limitation of this permit is a violation of the implementing rules and may subject the permittee to enforcement action.		Approval Date JUN 04 2018
		Expiration Date JUN 04 2023
Permit Number(s): 1500-17-0001.2 CZM170001	Type of Approval(s): Coastal Wetland Permit 24 Water Quality Certificate	Enabling Statute(s): N.J.S.A. 13:19-1 et seq. CAFRA N.J.S.A. 12:5-3 WFD N.J.S.A. 58:10A WPCA
Permittee: Township of Little Egg Harbor 665 Radio Road Little Egg Harbor, NJ		Site Location: Project Location: Terminus of Iowa Court Block: 326 Lot: 28.01 Municipality: Little Egg Harbor County: Ocean
Description of Authorized Activities: This permit authorizes the establishment of a living shoreline at the terminus of Iowa Court. Specifically, this permit authorizes: • The construction of a 15,215 square foot (0.349 acres) marsh sill that will consist of 2,260 cubic yards of stone and 760 linear feet of timber sheeting with stone on both sides of the sheeting. The total width of the marsh sill will be 20 feet. • The restoration of 0.877 acres of coastal wetlands • The impact of 0.179 acres of coastal wetlands for the installation of the marsh sill. Specifically, 0.027 acres for the placement of the stone sill and 0.15 acres for the placement of sand and subsequent planting of <i>Spartina alterniflora</i>. Prior to ANY construction or site preparation for the portion of the project located below the high tide line, the permittee must obtain a Department of the Army authorization. You are advised to contact the Philadelphia District at (215) 656-6728. Please be advised that any changes to the approved plans would require a modification to this permit and shall be obtained prior to construction. This is not to be construed as a commitment to either approve or deny any future applications. This project is authorized under and in conditional compliance with the applicable Coastal Zone Management Rules (N.J.A.C. 7:7-1.1 et seq.), as amended on January 16, 2018, including a Water Quality Certificate provided that all conditions are met.		
Prepared by: Jill Aspinwall, Environmental Specialist 3		Received and/or Recorded by County Clerk:
THIS PERMIT IS NOT EFFECTIVE AND NO CONSTRUCTION APPROVED BY THIS PERMIT, OR OTHER REGULATED ACTIVITY, MAY BE UNDERTAKEN UNTIL THE APPLICANT HAS SATISFIED ALL PRE-CONSTRUCTION CONDITIONS AS SET FORTH HEREIN.		
This permit is not valid unless authorizing signature appears on the last page.		

STANDARD CONDITIONS:

1. The issuance of a permit shall in no way expose the State of New Jersey or the Department to liability for the sufficiency or correctness of the design of any construction or structure(s). Neither the State nor the Department shall, in any way, be liable for any loss of life or property that may occur by virtue of the activity or project conducted as authorized under a permit;
2. The issuance of a permit does not convey any property rights or any exclusive privilege;
3. The permittee shall obtain all applicable Federal, State, and local approvals prior to commencement of regulated activities authorized under a permit;
4. A permittee conducting an activity involving soil disturbance, the creation of drainage structures, or changes in natural contours shall obtain any required approvals from the Soil Conservation District having jurisdiction over the site;
5. The permittee shall take all reasonable steps to prevent, minimize, or correct any adverse impact on the environment resulting from activities conducted pursuant to the permit, or from noncompliance with the permit;
6. The permittee shall immediately inform the Department by telephone at (877) 927-6337 (Warn DEP Hotline) of any noncompliance that may endanger public health, safety, and welfare, or the environment. The permittee shall inform the Division of Land Use Regulation by telephone at (609) 292-0060 of any other noncompliance within two working days of the time the permittee becomes aware of the noncompliance, and in writing within five working days of the time the permittee becomes aware of the noncompliance. Such notice shall not, however, serve as a defense to enforcement action if the project is found to be in violation of this chapter. The written notice shall include:
 - i. A description of the noncompliance and its cause;
 - ii. The period of noncompliance, including exact dates and times;
 - iii. If the noncompliance has not been corrected, the anticipated length of time it is expected to continue; and
 - iv. The steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance;
7. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the authorized activity in order to maintain compliance with the conditions of the permit;
8. The issuance of a permit does not relinquish the State's tidelands ownership or claim to any portion of the subject property or adjacent properties;
9. The issuance of a permit does not relinquish public rights to access and use tidal waterways and their shores;
10. The permittee shall allow an authorized representative of the Department, upon the presentation of credentials, to:
 - i. Enter upon the permittee's premises where a regulated activity is located or conducted, or where records must be kept under the conditions of the permit;

- ii. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit; and
 - iii. Inspect at reasonable times any facilities, equipment, practices, or operations regulated or required under the permit. Failure to allow reasonable access under this paragraph shall be considered a violation of this chapter and subject the permittee to enforcement action under;
11. The permittee and its contractors and subcontractors shall comply with all conditions, site plans, and supporting documents approved by the permit;
 12. All conditions, site plans, and supporting documents approved by a permit shall remain in full force and effect so long as the regulated activity or project, or any portion thereof, is in existence, unless the permit is modified;
 13. For Coastal Permits the permittee shall record the permit, including all conditions listed therein, with the Office of the County Clerk (the Registrar of Deeds and Mortgages, if applicable) of each county in which the site is located. The permit shall be recorded within 30 calendar days of receipt by the permittee, unless the permit authorizes activities within two or more counties, in which case the permit shall be recorded within 90 calendar days of receipt. Upon completion of all recording, a copy of the recorded permit shall be forwarded to the Division of Land Use Regulation at the address set forth in the rules.
 14. If any condition or permit is determined to be legally unenforceable, modifications and additional conditions may be imposed by the Department as necessary to protect public health, safety, and welfare, or the environment;
 15. Any permit condition that does not establish a specific timeframe within which the condition must be satisfied (for example, prior to commencement of construction) shall be satisfied within six months of the effective date of the permit;
 16. A copy of the permit and all approved site plans and supporting documents shall be maintained at the site at all times and made available to Department representatives or their designated agents immediately upon request;
 17. A permit shall be transferred to another person only in accordance with the regulations;
 18. A permit can be suspended or terminated by the Department for cause;
 19. The submittal of a request to modify a permit by the permittee, or a notification of planned changes or anticipated noncompliance, does not stay any condition of a permit;
 20. Where the permittee becomes aware that it failed to submit any relevant facts in an application, or submitted incorrect information in an application or in any report to the Department, it shall promptly submit such facts or information; and
 21. The permittee shall submit written notification to the Bureau of Coastal and Land Use Compliance and Enforcement, 401 East State Street, 4th Floor, P.O. Box 420, Mail Code 401-04C, Trenton, NJ 08625, at least three working days prior to the commencement of regulated activities.
 22. The permittee shall not cause or allow any unreasonable interference with the free flow of a regulated water by placing or dumping any materials, equipment, debris, or structures within or

adjacent to the channel while the regulated activity(ies) is being undertaken. Upon completion of the regulated activity(ies), the permittee shall remove and dispose of in a lawful manner, all excess materials, debris, equipment, and silt fences and other temporary soil erosion and sediment control devices from all regulated areas.

23. The regulated activity shall not destroy, jeopardize, or adversely modify a present or documented habitat for threatened or endangered species, and shall not jeopardize the continued existence of any local population of a threatened or endangered species;

SPECIAL CONDITIONS:

1. Prior to construction, the permittee shall receive a Tidelands Instrument. Issuance of this permit in no way relinquishes, and shall not be construed as a relinquishment by the State of New Jersey of any Tidelands right, title ownership/interest in the subject property or in any land surrounding the same. This permit is authorized under, and in compliance with the Coastal Zone Management Rules (N.J.A.C. 7:7 et. Seq.), as amended, provided that all conditions to follow are met.
2. All areas of temporary disturbance shall be restored to pre-existing condition and grade.
3. Within 60 days of completion of all activities hereby authorized by this permit, the permittee shall submit as-built plans to the Division of Land Use Regulation. Should it be necessary to implement adaptive management measures that differ from the project as shown on the approved plans, the permittee shall contact the Division for the appropriate authorization prior to construction. Following that notification, the Division will evaluate the proposed adaptive management measures pursuant to N.J.A.C. 7:7-27.5 and if it is determined that they meet the criteria of a technical modification, no permit application shall be required. In this situation Division authorization to proceed with the adaptive management measures will be issued to the permittee in writing or via electronic mail.
4. This authorization for a General Permit is valid for five years from the date of issuance. This authorization may be extended one time for five years, in accordance with the requirements at N.J.A.C. 7:7-3.7. All regulated activities being conducted pursuant to this authorization shall immediately cease on the date the authorization expires. If the authorization expires and the permittee intends to commence or continue the regulated activities, the permittee shall obtain a new authorization or permit under this chapter authorizing the regulated activities. The Department shall issue a new authorization only if the project is revised where necessary to comply with the requirements in effect when the application for the new authorization is declared complete for review.

APPROVED PLANS:

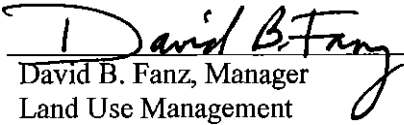
The approved project plans are referenced as: *Plans for Iowa Court Living Shoreline, Little Egg Harbor Township, Ocean County New Jersey. The plans consists of pages one (1) through four (4), with sheet one entitled "Cover Sheet", sheet two entitled "Iowa Court Living Shoreline- Site Plan", sheet three entitled "Iowa Court Living Shoreline- Planting Plan", and sheet 4 entitled "Construction Details" all dated March 23, 2018 and revised April 24, 2018 and prepared by T&M Associates.*

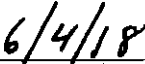
In accordance with the applicable regulations, any person who is aggrieved by this decision or any of the conditions of this permit may request an adjudicatory hearing within 30 calendar days after public notice of the decision is published in the DEP Bulletin. This request must include a completed copy of the Adjudicatory Hearing Request form. The DEP Bulletin is available through the Department's website at <http://www.nj.gov/dep/bulletin> and the form is available through the Division's website at

http://www.nj.gov/dep/landuse/download/lur_024.pdf. In addition to requesting a hearing, a request may be filed with the Department's Office of Dispute Resolution to determine whether the matter is suitable for mediation. Information concerning the dispute resolution process is available at www.nj.gov/dep/odr.

If you need clarification on any section of this permit or the conditions of this permit, please contact the Division of Land Use Regulation's Technical Support Call Center at (609) 777-0454.

Approved By:


David B. Fanz, Manager
Land Use Management


Date

Original sent to Agent to record.

c: Permittee
NJDEP Bureau of Coastal and Land Use Enforcement, Toms River
NJDEP Natural Lands Trust, attention Bob Cartica
Little Egg Harbor Township Municipal Clerk
Little Egg Harbor Township Municipal Construction Official

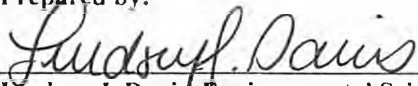


STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF LAND USE REGULATION

Mail Code 501-02A, P.O. Box 420, Trenton, New Jersey 08625-0420
Telephone: (609) 633-2289 or Fax: (609) 777-3656
www.nj.gov/dep/landuse



PERMIT

In accordance with the laws and regulations of the State of New Jersey, the Department of Environmental Protection hereby grants this permit to perform the activities described below. This permit is revocable with due cause and is subject to the limitations, terms and conditions listed below and on the attached pages. For the purpose of this document, "permit" means "approval, certification, registration, authorization, waiver, etc." Violation of any term, condition or limitation of this permit is a violation of the implementing rules and may subject the permittee to enforcement action.		Approval Date AUG 02 2018
		Expiration Date AUG 01 2023
Permit Number(s): 1532-18-0002.1 CZM180001	Type of Approval(s): General Permit 24 Water Quality Certificate	Enabling Statute(s): N.J.S.A. 12:5-3 WFD N.J.S.A. 13:19-1 CAFRA N.J.S.A. 58:10A WPCA
Permittee: Mayor Susan Marshall c/o Borough of Tuckerton 420 East Main Street Tuckerton, New Jersey 08087	Site Location: Project: South Green Street Living Shoreline Project Project Location: South Green Street Block: 45 & Ocean County ROW Lot: 8 & Ocean County ROW Municipality: Borough of Tuckerton County: Ocean	
Description of Authorized Activities: This permit authorizes the construction of a living shoreline along an eroded beach located on South Green Street in the Borough of Tuckerton. The living shoreline will consist of the construction of a 28' x 224.2' stone breakwater within Tuckerton Cove, the placement of 43 cubic yards of rip-rap slope protection along the roadway, and placement of 506 cubic yards of sand above and below the mean high water line on the existing eroded beach to restore the beach to the limits of the shoreline shown on the applicable 1977 Tidelands base map. The project is shown on the approved plans referenced on the last page of this permit. This project is authorized under and in conditional compliance with the applicable Coastal Zone Management Rules (N.J.A.C. 7:7-1.1 et seq.), as amended on April 16, 2018, provided that all conditions to follow are met. The work authorized by this permit is also subject to an Army Corps of Engineers Nationwide Permit 13 (NWP 13) CENAP-OP-R-2018-00397-95.		
Prepared by:  Lindsey J. Davis, Environmental Scientist 2		Received and/or Recorded by County Clerk:
THIS PERMIT IS NOT EFFECTIVE AND NO CONSTRUCTION APPROVED BY THIS PERMIT, OR OTHER REGULATED ACTIVITY, MAY BE UNDERTAKEN UNTIL THE APPLICANT HAS SATISFIED ALL PRE-CONSTRUCTION CONDITIONS AS SET FORTH HEREIN.		
This permit is not valid unless authorizing signature appears on the last page.		

SPECIAL CONDITIONS:

1. Prior to any work below the mean high water line, the permittee must receive a Tidelands license for the structures and fill authorized under this permit. The new Tidelands license application is pending under file #1532-18-0002.1 TDI180001. Failure to comply with this condition will result in fines up to \$1000 plus \$100 per day, a higher fee for the conveyance and possible prosecution by the Attorney General's office to remove unauthorized structures and to pay use and occupancy charge.
2. In order to protect winter flounder and anadromous fish spawning activities, no work is permitted between January 1st and June 30th of the year. The Department reserves the right to suspend all regulated activities on site if it is determined that the applicant has not taken proper precautions to ensure continuous compliance with this condition.
3. The boundaries of the area where the structures are placed must be clearly marked in accordance with US Coast Guard requirements for regulatory and informational markers (US Coast Guard "U.S. Aids to Navigation System" <http://www.uscgboating.org/ATON/index.html>). Specifically, the corners of the footprint of the area where the structures are placed must be marked with buoys or stakes.
4. All structures must be constructed of nonpolluting materials such as natural cedar or other untreated wood, concrete, or other inert products. Creosote and CCA-treated lumber (a.k.a. pressure treated or wolmanized lumber) which is susceptible to leaching are considered polluting materials and are not acceptable.
5. Consistent with Assembly Bill, No. 2804, P.L. 2007, CHAPTER 113 the use of creosote treated material (or other descriptive term from the law) in the construction of the authorized structure(s) is prohibited.
6. The permittee is responsible for ensuring that the contractor and/or workers executing the activity(s) authorized by this permit have knowledge of the terms and conditions of the authorization and that a copy of this authorization is at the project site throughout the period the work is underway and available for review by any person.
7. The permittee shall, to the maximum extent practicable, design the project to employ methodologies that minimize the amount of ground disturbance to the existing beach face. This shall include items such as: limiting the number of access points utilized to enter/exit the project area, limiting movement of heavy machinery laterally along the waterfront, and removing debris in a manner that disturbs the surrounding sands in the least intrusive manner possible. These methodologies shall be incorporated into all project plans and documents.
8. All nourishment materials shall consist of clean sand fill (greater than 90 percent sand) of grain size comparable to the existing beach.
9. The authorized beach restoration must adhere to the requirements for beach restoration activities referenced in Subchapter 10 of the New Jersey Coastal Zone Management Rules at N.J.A.C. 7:7-1.1 et seq.
10. All areas of temporary disturbance shall be restored to its pre-existing condition and grade.
11. This permit does not authorize dredging activities. If dredging is required in the future, a new Waterfront Development application showing compliance with Maintenance Dredging at N.J.A.C. 7:7-12.6 or New Dredging at N.J.A.C. 7:7-12.7 will be required to be submitted to this Division.

STANDARD CONDITIONS:

1. The permittee shall record the permit, including all conditions listed therein, with the Office of the County Clerk (the Registrar of Deeds and Mortgages, if applicable) of each county in which the site is located. The permit shall be recorded within 30 calendar days of receipt by the permittee. Upon completion of all recording, a copy of the recorded permit shall be forwarded to the Division of Land Use Regulation at the address listed on the first page of this permit.
2. The issuance of a permit shall in no way expose the State of New Jersey or the Department to liability for the sufficiency or correctness of the design of any construction or structure(s). Neither the State nor the Department shall, in any way, be liable for any loss of life or property that may occur by virtue of the activity or project conducted as authorized under a permit;
3. The issuance of a permit does not convey any property rights or any exclusive privilege;
4. The permittee shall obtain all applicable Federal, State, and local approvals prior to commencement of regulated activities authorized under a permit;
5. A permittee conducting an activity involving soil disturbance, the creation of drainage structures, or changes in natural contours shall obtain any required approvals from the Soil Conservation District having jurisdiction over the site;
6. The permittee shall take all reasonable steps to prevent, minimize, or correct any adverse impact on the environment resulting from activities conducted pursuant to the permit, or from noncompliance with the permit;
7. The permittee shall immediately inform the Department of any unanticipated adverse effects on the environment not described in the application or in the conditions of the permit. The Department may, upon discovery of such unanticipated adverse effects, and upon the failure of the permittee to submit a report thereon, notify the permittee of its intent to suspend the permit, pursuant to the regulations;
8. The issuance of a permit does not relinquish the State's tidelands ownership or claim to any portion of the subject property or adjacent properties;
9. The issuance of a permit does not relinquish public rights to access and use tidal waterways and their shores;
10. The permittee shall allow an authorized representative of the Department, upon the presentation of credentials, to:
 - i. Enter upon the permittee's premises where a regulated activity is located or conducted, or where records must be kept under the conditions of the permit;
 - ii. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit; and
 - iii. Inspect at reasonable times any facilities, equipment, practices, or operations regulated or required under the permit. Failure to allow reasonable access under this paragraph shall be considered a violation of this chapter and subject the permittee to enforcement action under;
11. All conditions, site plans, and supporting documents approved by a permit shall remain in full force and effect so long as the regulated activity or project, or any portion thereof, is in existence, unless the permit is modified;

12. If any condition or permit is determined to be legally unenforceable, modifications and additional conditions may be imposed by the Department as necessary to protect public health, safety, and welfare, or the environment;
13. A permit shall be transferred to another person only in accordance with the regulations;
14. A permit can be suspended or terminated by the Department for cause;
15. The submittal of a request to modify a permit by the permittee, or a notification of planned changes or anticipated noncompliance, does not stay any condition of a permit;
16. The permittee shall submit written notification to the Bureau of Coastal and Land Use Compliance and Enforcement, 401 East State Street, 4th Floor, P.O. Box 420, Mail Code 401-04C, Trenton, NJ 08625, at least three working days prior to the commencement of regulated activities;
17. The permittee shall not cause or allow any unreasonable interference with the free flow of a regulated water by placing or dumping any materials, equipment, debris, or structures within or adjacent to the channel while the regulated activity(ies) is being undertaken. Upon completion of the regulated activity(ies), the permittee shall remove and dispose of in a lawful manner, all excess materials, debris, equipment, and silt fences and other temporary soil erosion and sediment control devices from all regulated areas; and
18. The regulated activity shall not destroy, jeopardize, or adversely modify a present or documented habitat for threatened or endangered species, and shall not jeopardize the continued existence of any local population of a threatened or endangered species.

ADDITIONAL CONDITION FOR A COASTAL PERMIT:

1. This authorization for a General Permit is valid for five years from the date of issuance. This authorization may be extended one time for five years, in accordance with the requirements at N.J.A.C. 7:7-3.7. All regulated activities being conducted pursuant to this authorization shall immediately cease on the date the authorization expires. If the authorization expires and the permittee intends to commence or continue the regulated activities, the permittee shall obtain a new authorization or permit under this chapter authorizing the regulated activities. The Department shall issue a new authorization only if the project is revised where necessary to comply with the requirements in effect when the application for the new authorization is declared complete for review.

APPROVED PLANS:

The project is shown on plans in seven (7) sheets entitled "Plans For South Green Street Living Shoreline, Borough of Tuckerton, Ocean County, New Jersey", dated 5-18-2018, last revised on 7-2-2018, and prepared by Jason A. Worth, P.E. from T&M Associates.

In accordance with the applicable regulations, any person who is aggrieved by this decision or any of the conditions of this permit may request an adjudicatory hearing within 30 calendar days after public notice of the decision is published in the DEP Bulletin. This request must include a completed copy of the Adjudicatory Hearing Request form. The DEP Bulletin is available through the Department's website at <http://www.nj.gov/dep/bulletin> and the form is available through the Division's website at http://www.nj.gov/dep/landuse/download/lur_024.pdf. In addition to requesting a hearing, a request may be filed with the Department's Office of Dispute Resolution to determine whether the matter is suitable for mediation. Information concerning the dispute resolution process is available at www.nj.gov/dep/odr.

If you need clarification on any section of this permit or conditions, please contact Lindsey J. Davis by email at Lindsey.Davis@dep.nj.gov or by phone at (609) 633-2289.

Approved By:



Ryan J. Anderson, Bureau Chief
Bureau of Coastal Regulation
Division of Land Use Regulation



Date

Original sent to Agent to record

c: Permittee
NJDEP Bureau of Coastal and Land Use Enforcement, Toms River
Borough of Tuckerton Municipal Clerk
Borough of Tuckerton Municipal Construction Official



State of New Jersey

PHILIP D. MURPHY
Governor

DEPARTMENT OF ENVIRONMENTAL PROTECTION

CATHERINE R. McCABE
Commissioner

SHEILA Y. OLIVER
Lt. Governor

Division of Land Use Regulation
Bureau of Tidelands Management
P.O. Box 420 Code 501-02B
Trenton, NJ 08625-0420
Tel. # 609-777-0454
Fax # 609-777-3656

New Jersey Natural Lands Trust
Attention: Robert J. Cartica
Mail Code 501-04
Trenton, NJ 08625

SEP 12 2018

RE: NEW JERSEY NATURAL LANDS TRUST, New License application, Great Bay, Lot 28.01,
Block 326, Little Egg Harbor Township, Ocean County
FILE: 1500-17-0001.2 TDI180001

Dear Mr. Cartica:

Please find the license document for the above-referenced property enclosed with this correspondence.

As stated in the license document, it is the responsibility of the licensee to submit the annual fee within thirty days of the yearly due date. The license contains a clause providing for an annual inflation adjustment of 2.5 percent.

Prior to the expiration of this license, the licensee is responsible for submitting an application to renew the license. The Tidelands Resource Council will review and may revise the annual fee at the time of renewal. Any changes in the annual license fee introduced after the expiration of this license will be retroactive to the date of termination.

This license will note that the State of New Jersey preserves their claim to areas outshore of the mean high water line at the start of the project in perpetuity.

The State of New Jersey may claim title to a portion of the property in-shore of the licensed area, and the state does not waive this claim by approving and issuing this license document.

Sincerely,

Randy D. Bearce
Manager
Bureau of Tidelands Management

RDB/mm
encl.

cc: Ms. Erika Naklicki
Principal Environmental Scientist
T&M Associates
11 Tindall Road
Middletown, NJ 07748

REVOCABLE LICENSE
A Rental Agreement from the State of New Jersey

The Tidelands Resource Council in the Department of Environmental Protection, empowered under N.J.S.A. 13:1B-13 to approve licenses of lands owned by the State of New Jersey that are now or were formerly under tidewater, having due regard for the public interest, has approved a license to **NEW JERSEY NATURAL LANDS TRUST**, hereafter referred to as the licensee(s).

The licensee(s) has applied for the right to rent an area of land now or formerly under tidewater in the Great Bay, out shore of Lot 28.01, Block 326 at Great Bay Boulevard in Little Egg Harbor Township, Ocean County, New Jersey.

The area to be licensed encompasses 48,287 square feet of currently flowed tidelands and is depicted on the plan entitled, "TOWNSHIP OF LITTLE EGG HARBOR, IOWA COURT LIVING SHORELINE, TOWNSHIP OF LITTLE EGG HARBOR, OCEAN COUNTY, NEW JERSEY, EXHIBIT MAP SHOWING PROPOSED TIDELANDS LICENSE & RIPARIAN GRANT AREA ALONG GREAT BAY", dated 6/20/18, prepared by Michael S. Finnegan, filed with the Bureau of Tidelands Management of the Department of Environmental Protection under file number 1500-17-0001.2 TDI180001. Permit 1500-17-0001.2 CZM170001 authorized the establishment of a living shoreline at the terminus of Iowa Court. The proposed project involves the restoration of an eroded shoreline at Block 326, Lot 28.01, owned by NJ Natural Lands Trust.

The State of New Jersey preserves claim to areas outshore of the mean high water line at the start of the project in perpetuity.

The renewal of the license shall be in effect for a period of ten (10) years from **JULY 11, 2018 to JULY 11, 2028. The fees due for each year of the license shall be as noted in Schedule A of this document.**

The annual rental is due on July 11 in advance of each year of the license. All payments received thirty days after the due date shall be assessed a late fee of \$25.00. All fees or partial fees which remain past due for more than ninety days after said due date shall accrue interest at the rate set by the Tidelands Resource Council until received by the State. Additionally, if a check is returned for non-sufficient funds, a \$25.00 charge will be assessed to the licensee(s).

This license may be revoked at any time and for any purpose deemed necessary and reasonable by the Tidelands Resource Council in the Department of Environmental Protection.

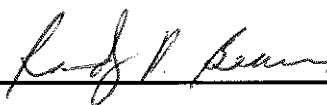
The licensee(s) must either apply for an additional license renewal or remove all structures at the expiration of the said period of ten (10) years. The State of New Jersey is not bound to make any further renewal of the license. If a renewal is approved, a new annual fee may be fixed by the Department of Environmental Protection.

Should the license be revoked or should the licensee(s) fail to pay the fee for each year of the license or to renew the license by July 11, 2028, the licensee(s) must promptly vacate the tidelands at the licensee(s) expense, removing any and all structures to the satisfaction of the Department of Environmental Protection. Failure to appropriately vacate the tidelands may result in the filing of a lien against the licensee(s) property by the State of New Jersey.

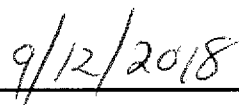
Should the licensee(s) wish to make any alterations to the license area, the licensee(s) is required to apply for a license modification. If a modified license is approved, a new annual fee may be fixed by the Department of Environmental Protection.

This license may be assigned or otherwise transferred by the licensee(s) to any other person or persons with the written consent of the Manager of the Bureau of Tidelands Management of the Department of Environmental Protection. Forms are available from the Bureau for this purpose. The license must be assigned in the event that the licensee(s) sells the entirety of the adjacent upland prior to July 11, 2028. The annual fee will still be due should the license not be appropriately assigned.

The licensee(s) may not further improve or develop the licensed area unless a permit, as per N.J.S.A. 12:5-3, is obtained for that purpose. The licensee(s) may not appropriate the licensed area for exclusive use.



Randy D. Bearce, Manager
Bureau of Tidelands Management
Division of Land Use Regulation
Department of Environmental Protection



Date

SCHEDULE A
Annual License Fees

Fee Year	Start Date	End Date	Fee Amount
Year 1	7/11/2018	7/11/2019	\$100.00
Year 2	7/11/2019	7/11/2020	\$100.00
Year 3	7/11/2020	7/11/2021	\$100.00
Year 4	7/11/2021	7/11/2022	\$100.00
Year 5	7/11/2022	7/11/2023	\$100.00
Year 6	7/11/2023	7/11/2024	\$100.00
Year 7	7/11/2024	7/11/2025	\$100.00
Year 8	7/11/2025	7/11/2026	\$100.00
Year 9	7/11/2026	7/11/2027	\$100.00
Year 10	7/11/2027	7/11/2028	\$100.00



State of New Jersey

PHILIP D. MURPHY
Governor

DEPARTMENT OF ENVIRONMENTAL PROTECTION

CATHERINE R. McCABE
Commissioner

SHEILA Y. OLIVER
Lt. Governor

Division of Land Use Regulation
Bureau of Tidelands Management
P.O. Box 420
Trenton, NJ 08625-0420
Tel. # 609-777-0454
Fax # 609-777-3656

August 7, 2018

AUG 16 2018

Borough of Tuckerton
420 East Main Street
Tuckerton, NJ 08087

RE: BOROUGH OF TUCKERTON, New License application, Tuckerton Cove, Lot 8, Block 45, Tuckerton
Borough, Ocean County

FILE: 1532-18-0002.1 TDI180001

Dear Applicant:

On August 7, 2018 the Bureau of Tidelands Management completed the review of the above-referenced application. A revocable ten-year license will be issued at a consideration of \$100.00 per year.

The bureau also assessed a single payment charge of \$100.00 for the processing of this application. The license is effective August 1, 2018.

The fees currently due for this license are as follows:

- 1) \$100.00 for the license consideration for the period August 1, 2018 to August 1, 2019.
- 2) \$100.00 for the license processing fee.

Please do not send payment to the Bureau of Tidelands Management. You will receive a bill(s) from the Department of Treasury. Payments must be received by Treasury along with the payment stub within thirty days of receipt of the bill(s). Once receipt of the payment has been recorded, the license will be processed for delivery.

Should you have any questions, please contact the Technical Support Center at (609) 777-0454.

Sincerely,

Melissa Ann Miller
Environmental Specialist 3
Bureau of Tidelands Management

cc: Mrs. Ericka Naklicki, Principal Environmental Specialist
T&M Associates
11 Tindall Road
Middletown, NJ 07748

From: Jennifer Wallace <Jennifer.Wallace@cardno.com>

Sent: Wednesday, August 8, 2018 2:53 PM

To: Aspinwall, Jill; Fanz, Dave

Cc: Lynn Dwyer; West-Rosenthal, Jesse

Subject: RE: Iowa Court Permit

Good Afternoon Jill-

Thank you for sending. We will forward this information to the grantee to include in their project NEPA documentation.

Regards-
Jennifer

Jennifer Wallace

SENIOR PROJECT SCIENTIST

CARDNO

Direct +1 703 927 3085

Address P.O. Box 162, Port Republic, Virginia 24471

Email jennifer.wallace@cardno.com Web www.cardno.com

This email and its attachments may contain confidential and/or privileged information for the sole use of the intended recipient(s). All electronically supplied data must be checked against an applicable hardcopy version which shall be the only document which Cardno warrants accuracy. If you are not the intended recipient, any use, distribution or copying of the information contained in this email and its attachments is strictly prohibited. If you have received this email in error, please email the sender by replying to this message and immediately delete and destroy any copies of this email and any attachments. The views or opinions expressed are the author's own and may not reflect the views or opinions of Cardno.

From: Aspinwall, Jill [<mailto:Jill.Aspinwall@dep.nj.gov>]

Sent: Wednesday, August 08, 2018 1:42 PM

To: Fanz, Dave <Dave.Fanz@dep.nj.gov>; Jennifer Wallace <Jennifer.Wallace@cardno.com>

Cc: Lynn Dwyer <Lynn.Dwyer@NFWF.ORG>; West-Rosenthal, Jesse <Jesse.West-Rosenthal@dep.nj.gov>

Subject: Iowa Court Permit

Jennifer,

Dave asked me to send you an email regarding compliance with SHPO for the IOWA Court permit.

On June 4, 2018 the Department issued a Coastal Wetland Permit 24 to the Township of Little Egg Harbor to authorize activities associated with the establishment of a living shoreline at the terminus of Iowa Court, located in Little Egg Harbor, Ocean County New Jersey. In accordance with New Jersey Coastal Zone Management Rules, N.J.A.C. 7:7-9.34, the Department is required to make a finding that the permitted activity does not detract from, encroach upon, damage or destroy the value of any historic and archaeological resources. To make that finding the Division coordinates with the New Jersey Historic Preservation Office. In May of 2017 a complete permit application was forwarded to that office for review and comment. The results of that coordination can be found in the July 14, 2017 correspondence between Jesse West-Rosenthal (SHPO) and Jill Aspinwall (below). If you have any additional questions regarding this e-mail or that coordination please contact me at 609-984-9736.

HPO- F2017-080

HPO Project # 17-1415-1

Iowa Court

Hi Jill,

Thank you for providing the Historic Preservation Office (HPO) with the opportunity to review and comment on the potential for the above-referenced project to affect historic and archaeological resources. Based upon the documentation submitted, there are no buildings, structures, sites, objects, or historic districts on or adjacent to the project location that are listed on, or that have been identified as eligible for listing on the New Jersey or National Registers of Historic Places. Although the project setting is sensitive for archaeological resources, based upon a review of information on file at the HPO, the project only has a low potential for archaeological remains. Consequently, the HPO does not recommend further consideration prior to permit issuance. However, if additional archaeological remains are discovered during project implementation, further consultation with the HPO will be necessary

Thank you again for providing the opportunity to review this project.

If you have any questions, please feel free to contact me at 609-984-6019. If additional consultation with the HPO is needed for this undertaking, please reference the HPO project number 17-1415 in any future calls, emails, submissions or written correspondence to help expedite your review and response.

Sincerely,
Jesse

From: Fanz, Dave <Dave.Fanz@dep.nj.gov>

Sent: Monday, January 29, 2018 1:23 PM

To: Jennifer Wallace <Jennifer.Wallace@cardno.com>

Cc: Brennen, Katelyn <Katelyn.Brennen@dep.nj.gov>; Lynn Dwyer <Lynn.Dwyer@NFWF.ORG>; West-Rosenthal, Jesse <Jesse.West-Rosenthal@dep.nj.gov>; Alek Modjeski <Alek@littoralsociety.org>

Subject: SHPO for 43429 ALS Creating a Resilient Delaware Bay Shoreline in Cape May and Cumberland Counties (NJ)

Jennifer,

On September 13, 2017 the Department issued an Individual Waterfront Development permit and a Coastal General permit #24 to the American Littoral society to authorize activities associated with a wetland restoration project located at Thompsons Beach in Cumberland County New Jersey . In accordance with New Jersey Coastal Zone Management Rules, N.J.A.C. 7:7-9.34, the Department is required to make a finding that the permitted activity does not detract from, encroach upon, damage or destroy the value of any historic and archaeological resources. To make that finding the Division coordinates with the New Jersey Historic Preservation Office. In May of 2017 a complete permit application was forwarded to that office for review and comment. The results of that coordination can be found in the June 12, 2017 correspondence between Jesse West-Rosenthal (SHPO) and Katelyn Brennen (below). If you have any additional questions regarding this e-mail or that coordination please contact me at 609-280-9438.

Regards,

Jennifer Taylor

From: Ericka Naklicki <ENaklicki@tandmassociates.com>
Sent: Thursday, August 09, 2018 11:08 AM
To: Jennifer Taylor
Cc: Jason Worth
Subject: FW: South Green Street Shoreline Protection Project ; LUR File #1532-18-0002.1; HPO Project # 18-1295-1

Hi Jen,
Below is South Green Street SHPO Consultation.

Let me know if you need anything else.

Thank you,



ERICKA NAKLICKI, PWS
PRINCIPAL ENVIRONMENTAL SCIENTIST

11 Tindall Road, Middletown, NJ 07748
T + 732.671.6400 **D** + 732.865.9509
ENAKLICKI@TANDMASSOCIATES.COM | TANDMASSOCIATES.COM

From: Davis, Lindsey <Lindsey.Davis@dep.nj.gov>
Sent: Thursday, August 9, 2018 11:04 AM
To: Ericka Naklicki <ENaklicki@tandmassociates.com>
Subject: FW: South Green Street Shoreline Protection Project ; LUR File #1532-18-0002.1; HPO Project # 18-1295-1

Hi Ericka,
See below.

Lindsey

~~~~~  
Lindsey J. Davis, M.S.  
Environmental Scientist 2  
Bureau of Coastal Regulation  
Division of Land Use Regulation  
New Jersey Department of Environmental Protection  
Phone: (609) 633-2289  
Fax: (609) 292-5399  
~~~~~

From: West-Rosenthal, Jesse
Sent: Thursday, July 5, 2018 3:49 PM
To: Davis, Lindsey <Lindsey.Davis@dep.nj.gov>
Subject: South Green Street Shoreline Protection Project ; LUR File #1532-18-0002.1; HPO Project # 18-1295-1

HPO Project # 18-1295-1
HPO-G2018-036

Ocean County, Little Egg Harbor Township
South Green Street Shoreline Protection Project
Block 45, Lot 8
LUR File #1532-18-0002.1

Hi Lindsey,

Thank you for providing the Historic Preservation Office (HPO) with the opportunity to review and comment on the potential for the above-referenced project to affect historic and archaeological resources. Based upon the documentation submitted, there are no buildings, structures, sites, objects, or historic districts on or adjacent to the project location that are listed on, or that have been identified as eligible for listing on the New Jersey or National Registers of Historic Places. Although the project setting is sensitive for archaeological sites, based upon a review of information on file at the HPO, the project only has a low potential for archaeological remains. Consequently, the HPO does not recommend further consideration prior to permit issuance.

Thank you again for providing the opportunity to review this project.

If you have any questions, please feel free to contact me at 609-984-6019. If additional consultation with the HPO is needed for this undertaking, please reference the HPO project number 18-1295 in any future calls, emails, submissions or written correspondence to help expedite your review and response.

Sincerely,
Jesse

Jesse West-Rosenthal, M.A. | Historic Preservation Specialist 2
Historic Preservation Office | New Jersey Department of Environmental Protection
501 E. State Street | Mail Code 501-04B | PO Box 420 | Trenton, New Jersey 08625-0420
P: 609-984-6019 | F: (609) 984-0578 | Website: <http://www.nj.gov/dep/hpo>

NEW: [LUCY Online Map Viewer](#)

**** PLEASE NOTE:** The HPO does not currently accept consultation requests for regulatory review via e-mail, at this time. All consultation requests must be submitted in hard copy via mail. ******





714 Lacey Road, Forked River, NJ 08731 Tel (609) 971-7002 Fax (609) 971-3391
www.SoilDistrict.org



SOIL EROSION AND SEDIMENT CONTROL CERTIFICATION N.J.S.A. 4:24-39, ET. SEQ., CHAPTER 251, P.L.1975

CERTIFICATION DATE: September 6, 2018

Little Egg Harbor Township
665 Radio Road
Little Egg Harbor, NJ 08087

Re: SCD# 20037; Iowa Court Living Shoreline Project; Block 326, Lot 28.01; Iowa Court; Little Egg Harbor Township

Pursuant to Chapter 251, Soil Erosion and Sediment Control Act, P.L. 1975, the Ocean County Soil Conservation District, hereby, grants certification of the soil erosion and sediment control plan for the above-referenced project, subject to the following:

1. The applicant is required to schedule a pre-construction meeting with the District prior to the start of soil disturbance activities. The applicant must also notify the District, by mail or fax, at least 48 hours prior to initial land disturbance.
2. Any changes to the certified Soil Erosion and Sediment Control Plan will require the submission of a revised Soil Erosion and Sediment Control Plan to the District for review and approval.
3. The applicant must notify the District when the project is completed.
NOTE: No certificate of occupancy can be granted by a municipality until a report of compliance is issued by the District.
4. The applicant must carry out all land disturbance activities in accordance with the Standards for Soil Erosion and Sediment Control in New Jersey, promulgated by the State Soil Conservation Committee. A copy of the certified plan and a copy of these provisions must be kept on the job site at all times.
5. Any conveyance of the project (or portion thereof) will transfer full responsibility for compliance to subsequent owner(s). The District must be notified in writing of any change of ownership.
6. This certification is limited to the controls specified in this plan. It is not authorization to engage in the proposed land use unless such use has been previously approved by the municipality or other controlling agency. **THIS CERTIFICATION SHALL EXPIRE IN 3-1/2 YEARS.**

Failure to comply with any of the conditions listed may result in the issuance of a Stop Construction Order.

NOTE: (1) All sediment spilled, dropped, washed or tracked onto roadways (public or private), or other impervious surfaces must be removed immediately.

NOTE: (2) At the time of the final inspection you are required to provide confirmation that the proper type and amount of seed, lime and fertilizer have been used for permanent stabilization work.

NOTE: (3) Additional Measures will be required if erosion problems develops.

NOTE: (4) The revised Standards for Soil Erosion and Sediment Control in NJ require applicants to perform a soil test to determine the lime application rate prior to permanent stabilization.

NOTE: (5) Certification for Iowa Court Living Shoreline only

NOTE: (6) The District has determined that this project is not subject to the soil restoration requirements of the revised land grading standard.

Will - [Signature]
SUPERVISOR

Healthy Soil is at the Root of Everything

TEMPORARY AUTHORIZATION

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION



Bureau of Nonpoint Pollution Control
PO Box 029
Trenton, NJ 08625-0029
Phone: (609) 633-7021
Fax: (609) 984-2147

Payment Arrangement:
Pay by Voucher
Paid Online: No
Paid On: N/A

This Authorization form is requested to be located at the regulated construction site at all times and be available for inspection by any authorized representative of the New Jersey Department of Environmental Protection. If you have designated an agent, it is your responsibility to notify your agent about this General Permit and its requirements.

AUTHORIZATION TO DISCHARGE
5G3 - Construction Activity Stormwater (GP)

To ensure compliance during the construction activity please print out the Stormwater Construction Permit terms and conditions at http://www.nj.gov/dep/dwq/pdf/5G3_2017_Final_Permit.pdf

Project Name:

Iowa Court Living Shoreline Project

PI ID#: [N/A]**Portal ID#:**
845112**Facility Address:**

Iowa Court
Little Egg Harbor Twp (Ocean), NJ 08087

NJPDES#: [N/A]**Type of Activity:** Stormwater Discharge General Permit Authorization New**Owner:**

Township of Little Egg Harbor
665 Radio Road
Little Egg Harbor Twp (Ocean), NJ 08087

Operating Entity:

Township of Little Egg Harbor
665 Radio Road
Little Egg Harbor Twp (Ocean), NJ 08087

Issuance Date:

09/11/2018

Effective Date of Authorization:

09/11/2018

Your request for authorization under NJPDES General Permit No. NJ0088323 has been approved by the New Jersey Department of Environmental Protection.

James J. Murphy, Chief
Bureau of Nonpoint Pollution Control
Division of Water Quality
New Jersey Department of Environmental Protection

Soil Conservation District - OCEAN

714 Lacey Road
Forked River, NJ , 08731, (609) 971-7002

Electronically certified by the responsible party, James Date: 09/11/2018
Oris on 09/11/2018

Ocean County
Soil Conservation District
714 Lacey Road
Forked River, NJ 08731
609-971-7002 - phone
609-971-3391 - fax
www.solidistrict.org



For District Use Only

Application Number

APPLICATION FOR SOIL EROSION AND SEDIMENT CONTROL PLAN CERTIFICATION

The enclosed soil erosion and sediment control plan and supporting information are submitted for certification pursuant to the Soil Erosion and Sediment Control Act, Chapter 251, P.L. 1975 as amended (NJSA 4:24-39 et. seq.) An application for certification of a soil erosion and sediment control plan shall include the items listed on the reverse side of this form.

Name of Project South Green Street Living Shoreline		Project Location: Municipality Tuckerton	
Project Street Address South Green Street		Block 45	Lot 8
Project Owner(s) Name Borough of Tuckerton		Email jgleghorn@tuckertonborough.com	Phone # 609-296-2701 Fax # 609-296-9247
Project Owner(s) Street Address (No P.O. Box Numbers) 420 East Main Street		City Tuckerton	State NJ Zip 08087
Total Area of Project (Acres) .443	Total Area of Land to be Disturbed (Acres) .443 Ac.	No. Dwelling or other Units -0-	Fee \$ 1,235.00
Plans Prepared by* Jason Worth, P.E.		Phone # 732-473-3400 Fax # 732-473-3408	
Street Address 1144 Hooper Ave., Suite 202		City Toms River	State NJ Zip 08753

(Engineering related items of the Soil Erosion and Sediment Control Plan MUST be prepared by or under the direction of and be sealed by a Professional Engineer or Architect licensed in the State of New Jersey, in accordance with NJAC 13:27-6.1 et. seq.)

Agent Responsible During Construction Jason Worth, P.E.		Email jworth@tandmassociates.com
Street Address 1144 Hooper Avenue, Suite 202		
City Toms River	State NJ	Zip 08753
Phone 732-473-3400	Fax # 732-473-3408	

The applicant hereby certifies that all soil erosion and sediment control measures are designed in accordance with current standards for Soil Erosion and Sediment Control in New Jersey and will be installed in accordance with those Standards and the plan as approved by the Soil Conservation District and agrees as follows:

1. To notify the District in writing at least 48 hours in advance of any land disturbance activity. Failure to provide such notification may result in additional inspection fees.
2. To notify the District upon completion of the Project (Note: No certificate of occupancy can be granted until a report of compliance is issued by the District.
3. To maintain a copy of the certified plan on the project site during construction.
4. To allow District agents to go upon project lands for inspection.
5. That any conveyance of this project or portion thereof prior to its completion will transfer full responsibility for compliance with the certified plan to any subsequent owners.
6. To comply with all terms and conditions of this application and certified plan including payment of all fees prescribed by the district fee schedule hereby incorporated by reference.

The applicant hereby acknowledges that structural measures contained in the Soil Erosion and Sediment Control Plan are reviewed for adequacy to reduce offsite soil erosion and sedimentation and not for adequacy of structural design. The applicant shall retain full responsibility for any damages which may result from any construction activity notwithstanding district certification of the subject soil erosion and sediment control plan. It is understood that approval of the plan submitted with this application shall be valid only for the duration of the initial project approval granted by the municipality. All municipal renewals of this project will require submission and approval by the district. In no case shall the approval extend beyond three and one half years at which time resubmission and certification will be required. Soil Erosion and Sediment Control Plan certification is limited to the controls specified in the plan. It is not authorization to engage in the proposed land use unless such use has been previously approved by the municipality or other controlling agency. It is further understood that all documents, site plans, design reports etc. submitted to the district shall be made available to the public (upon request) pursuant to the Open Public Records Act, N.J.S.A. 47:1A-1 et seq.

1. Applicant Certification* <u>Susan R. Marshall</u> <u>August 10, 2018</u> Signature Date <u>Susan R. Marshall, Mayor</u> Applicant Name (Print)	3. Plan determined complete: Signature of District Official: _____ Date _____
2. Receipt of the plan and supporting documents is hereby acknowledged: Signature of District Official _____ Date _____	4. Plan certified, denied or other actions noted above. Special Remarks: Signature of District Official _____ Date _____

*If other than project owner, written authorization of owner must be attached.

ESCC201 AP10 1/2014

PLANS FOR
*IOWA COURT & SOUTH GREEN STREET
LIVING SHORELINES PROJECT*

*LITTLE EGG HARBOR TOWNSHIP & BOROUGH OF TUCKERTON
OCEAN COUNTY, NEW JERSEY*

CONTRACT No. LEHT-01730

INDEX

SHEET NO.	DESCRIPTION	DWG NO.
1	COVER	CVR-1
2	PROJECT NOTES & DISTRIBUTION OF QUANTITIES	DOQ-1
3	IOWA COURT - EXISTING CONDITIONS	EXC-1
4	IOWA COURT - CONSTRUCTION PLAN & GRADING PLAN	CSP-1
5	IOWA COURT - LANDSCAPING PLAN	LSP-1
6	SOUTH GREEN STREET - EXISTING CONDITIONS	EXC-2
7	SOUTH GREEN STREET - CONSTRUCTION PLAN	CSP-2
8	SOUTH GREEN STREET - GRADING PLAN	GRD-1
9	SOUTH GREEN STREET - CROSS SECTIONS (STA. 2+00 TO 3+50)	CSX-1
10	SOUTH GREEN STREET - CROSS SECTIONS (STA. 3+50 TO 4+25)	CSX-2
11	CONSTRUCTION DETAILS	CSD-1
12	CONSTRUCTION DETAILS	CSD-2
13	SOIL EROSION & SEDIMENT CONTROL DETAILS	SESC-1

LITTLE EGG HARBOR GOVERNING BODY

MAYOR: RAY GORMLEY
DEPUTY MAYOR: BARBARA JO CREA
TOWNSHIP COMMITTEE: JOHN KEHM, JR.
DAVID SCHLUCK
LISA STEVENS
TOWNSHIP ADMINISTRATOR: MATTHEW J. SPADACCINI
TOWNSHIP CLERK: DIANA MCCrackEN, RMC
TOWNSHIP ATTORNEY: JEAN CIPRIANI, ESQ.
CONTACT INFORMATION: 665 RADIO ROAD
LITTLE EGG HARBOR, NJ 08087
PHONE: (609) 296-7241
WEB: WWW.LEHT.COM

TUCKERTON BOROUGH
GOVERNING BODY

MAYOR: SUSAN R. MARSHALL
COUNCIL PRESIDENT: SAM COLANGELO
COUNCIL MEMBERS: DORIS MATHISEN
RON PETERSON
MIKE SANTO
JOHN SCHWARTZ
KEITH VREELAND
BOROUGH CLERK: JENNY GLEGHORN, RMC
BOROUGH ATTORNEY: CHRISTOPHER CONNORS, ESQ.
CONTACT INFORMATION: 420 EAST MAIN STREET
TUCKERTON, NJ 08087
PHONE: (609) 296-2701
WEB: WWW.TUCKERTONBOROUGH.COM

UTILITY OWNERS

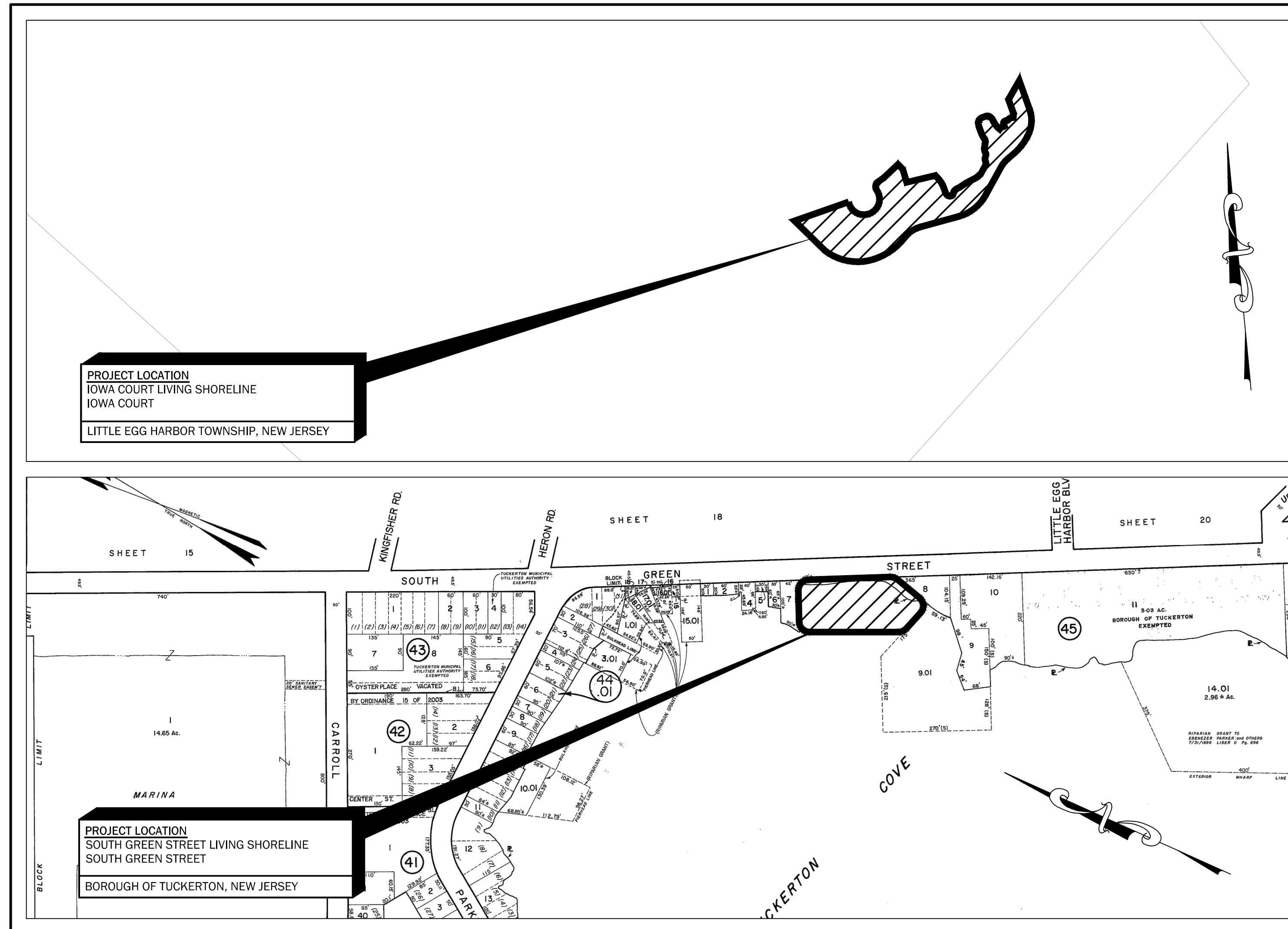
ELECTRIC
ATLANTIC CITY ELECTRIC
P.O. BOX 231
WILLMINGTON, DE 19899
(800) 833-7467 (EMERGENCY)
(800) 642-3780 (CUSTOMER SERVICE)
GAS
NEW JERSEY NATURAL GAS
775 VASSAR AVENUE
LAKEWOOD, NJ 08701
(800) 427-5325 (GAS LEAK)
(800) 221-0051 (CUSTOMER SERVICE)
CABLE
COMCAST
751 BRICK BOULEVARD
BRICK, NJ 08723
(732) 920-2288 (CUSTOMER SERVICE)
TELEPHONE
AT&T
175 WEST MAIN STREET
FREEHOLD, NJ 07728
(732) 431-1275
TELEPHONE
VERIZON
5100 BELMAR BOULEVARD
FARMINGDALE, NJ 07727
(800) 427-9977
WATER & SEWER
LITTLE EGG HARBOR
MUNICIPAL UTILITIES AUTHORITY
823 RADIO ROAD
LITTLE EGG HARBOR, NJ 08087
(609) 296-1168 (MAIN OFFICE)
(609) 296-7606 (SERVICE)

LOCATION OF UTILITIES SHOWN ON THESE PLANS ARE NOT WARRANTED AS TO EXACTNESS. CONTRACTOR SHALL DETERMINE EXACT LOCATION AND DEPTH OF UTILITIES PRIOR TO CONSTRUCTION IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS AND OTHER APPLICABLE LAWS.

PRIOR TO DIGGING CALL 1-800-272-1000



Know what's below.
Call before you dig.



KEY MAP

PREPARED BY
JASON A. WORTH, P.E.
TOWNSHIP ENGINEER



1144 HOOPER AVENUE, SUITE 202
TOWNS RIVER, NJ 08753
TEL 732-473-3400
FAX 732-473-3408

NEW JERSEY BOARD OF PROFESSIONAL ENGINEERS
AND LAND SURVEYORS
CERTIFICATE OF AUTHORIZATION 246A2787500

DISTRIBUTION OF QUANTITIES BASE BID 'A' - IOWA COURT

ITEM No.	ITEM DESCRIPTION	UNIT	ITEM DESIGNATION	IOWA CT SHEETS 4 & 5	SUB TOTAL	IF & WHERE	TOTAL QUANTITY
1	MOBILIZATION	L.S.	(M)	1	1	—	1
2	SITE WORK	L.S.	(M)	1	1	—	1
3	MAINTENANCE AND PROTECTION OF TRAFFIC	L.S.	(M)	1	1	—	1
4	SOIL EROSION AND SEDIMENT CONTROL	L.S.	(M)	1	1	—	1
5	PREPARATION OF SUBGRADE (STONE SILL)	S.Y.	(M)	1705	1,705	—	1,705
6	SOIL AGGREGATE, DESIGNATION I-4	C.Y.	(M)	575	575	—	575
7	1" CRUSHED STONE, 8" THICK	S.Y.	(M)	1705	1,705	—	1,705
8	RIP-RAP, 50-150 LBS, 12-24" THICK	C.Y.	(M)	460	460	40	500
9	CAPSTONE, VARIOUS SIZES	TON	(M)	2050	2,050	50	2,100
10	TIMBER SHEETING, 20' LONG	L.F.	(M)	770	770	—	770
11	TIMBER PILINGS, 10" TIP, NATURAL TAPER, 30' LONG (RENDERED NON-POLLUTING) WITH SIGNAGE	UNIT	(M)	9	9	—	9
12	RIP-RAP APRON SCOUR PROTECTION (STONE SILL)	C.Y.	(M)	70	70	10	80
13	BEACH SAND FILL	C.Y.	(M)	2665	2,665	—	2,665
14	EXCAVATION, UNCLASSIFIED (ROADWAY)	C.Y.	(M)	170	170	—	170
15	D.G.A. BASE COURSE, 6" THICK	S.Y.	(M)	610	610	—	610
16	HMA 19M64 BASE COURSE, 2.5" THICK	TON	(M)	95	95	—	95
17	TACK COAT 64-22	GAL	(M)	85	85	—	85
18	HMA 9.5M64 SURFACE COURSE, 1.5" THICK	TON	(M)	55	55	—	55
19	RIP-RAP STONE STABILIZATION (ROADWAY)	C.Y.	(M)	28	28	5	33
20	BENCH	UNIT	(M)	1	1	—	1
21	PUBLIC EDUCATION SIGN	UNIT	(M)	1	1	—	1
22	TRAFFIC STRIPES, LONG-LIFE, EPOXY RESON, 4"	L.F.	(M)	35	35	—	35
23	HMA DRIVEWAY, 3" THICK	S.Y.	(M)	12	12	—	12
24	PAVER DRIVEWAY	S.Y.	(M)	12	12	—	12
25	SPARTINA ALTERNIFLORA (2" PLUG)	UNIT	(M)	16125	16,125	—	16,125
26	SPARTINA PATENS (2" PLUG)	UNIT	(M)	5425	5,425	—	5,425
27	DEMOBILIZATION AND SITE RESTORATION	L.S.	(M)	1	1	—	1
28	POST-CONSTRUCTION AS-BUILT SURVEY	L.S.	(M)	1	1	—	1

PROJECT NOTES:

- | | | |
|--|---|---|
| <p>PLANIMETRIC AND TOPOGRAPHIC FEATURES SHOWN HEREON HAVE BEEN PROVIDED BY NJDEP BUREAU OF COASTAL ENGINEERING USING NOAA VDATUM 3.4 SOFTWARE, ALSO USED AS A REFERENCE WAS TIDAL DATUM 853-4244 GRAVELING POINT, NJ BENCHMARK CONTROL STATION 855-7380 LEWER, FORT MILES, DE.</p> | <p>15. CONTRACTOR SHALL CLEAN AND SWEEP AND TACK THE PAVEMENT IMMEDIATELY PRIOR TO APPLYING SURFACE COURSE.</p> <p>16. INSTALLATION OF HOT MIX ASPHALT SURFACE COURSE SHALL NOT BE PERMITTED UNTIL THE BASE COURSE IS APPROVED BY THE ENGINEER. THE ENGINEER MAY DIRECT THE CONTRACTOR TO MAKE CORRECTIVE MEASURES TO THE BASE COURSE PRIOR TO THE INSTALLATION OF THE SURFACE COURSE AT NO ADDITIONAL COST TO THE OWNER.</p> | <p>25. STAGING AREAS SHALL BE KEPT ORGANIZED AND NEAT AT ALL TIMES. STOCKPILES AND MATERIALS SHALL BE CONSOLIDATED AT THE END OF EACH WORK DAY.</p> <p>26. CONTRACTOR IS ADVISED THAT ANY ROAD CLOSURES SHALL BE SUBMITTED WITH APPROPRIATE TRAFFIC CONTROL PLAN FOR APPROVAL BY THE TOWNSHIP AND ENGINEER, AND, IF APPROVED, WILL BE MADE AT NO ADDITIONAL COST TO THE OWNER.</p> |
| <p>2. HORIZONTAL SYSTEM IS NAD 1983 COORDINATE SYSTEM AND VERTICAL DATUM IS NAVD 1988.</p> <p>3. THE TOPSOIL USED FOR THIS PROJECT SHALL BE IN STRICT CONFORMANCE TO THE PROJECT SPECIFICATIONS. ANY TOPSOIL NOT MEETING THE ENGINEER'S APPROVAL SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.</p> | <p>17. UNLESS ECHELON PAVING IS USED, ALL JOINTS RESULTING FROM THE PAVING OPERATIONS SHALL BE CONSIDERED COLD JOINTS AND POLYMERIZED JOINT ADHESIVE SHALL BE APPLIED IN ACCORDANCE WITH THE NJDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2007, UNDER SUBSECTION 401.03.03 E.1.b. COLD JOINT PAVING.</p> | <p>27. NO NIGHTTIME WORK SHALL BE ALLOWED.</p> <p>28. THE CONTRACTOR SHALL EMPLOY ALL APPROPRIATE SAFETY PROCEDURES, TRAFFIC DIRECTORS, PERSONNEL AND DEVICES AS MAY BE NECESSARY DURING PROSECUTION OF THE WORK. ACCESS TO RESIDENTS SHALL BE PROVIDED AT ALL TIMES.</p> |
| <p>4. CONTRACTOR SHALL ESTABLISH A FULL STAND OF GRASS WITH NO PATCHES, CRABGRASS OR WEEDS.</p> | <p>18. THE CONTRACTOR SHALL MANAGE THE DISPOSAL OF EXCESS MATERIALS INCLUDING EXCAVATION, STOCKPILING SAMPLING, PERMITTING AND DISPOSAL IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS. NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK. ALL COSTS SHALL BE INCLUDED IN SITE WORK.</p> | <p>29. THE CONTRACTOR SHALL CALL FOR A UTILITY MARK OUT AT LEAST 72 HOURS PRIOR TO THE START OF EXCAVATION ACTIVITIES. MARK OUTS SHALL BE CALLED FOR EVERY TEN DAYS THEREAFTER, IN ACCORDANCE WITH NEW JERSEY STATE LAW. COPIES OF THE MARK OUT TICKETS AND RESPONSES SHALL BE SUBMITTED TO THE ENGINEER</p> |
| <p>5. CONTRACTOR SHALL SUBMIT SEED BAG TICKETS TO THE ENGINEER FOR APPROVAL PRIOR TO PLACING SEED.</p> | <p>19. ALL EXCESS OR UNWANTED MATERIALS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT APPROVED DISPOSAL SITES BY THE CONTRACTOR. THE CONTRACTOR SHALL HAVE THE ENGINEER'S APPROVAL BEFORE REMOVING ANY MATERIAL FROM THE SITE. THE OWNER SHALL HAVE THE RIGHT TO CLAIM ANY MATERIAL BEFORE IT IS REMOVED. ALL COSTS OF THE ABOVE WORK SHALL BE INCLUDED IN THE VARIOUS ITEMS IN SITE WORK</p> | <p>30. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING HOMEOWNERS AFFECTED BY THE PROJECT AS FOLLOWS:</p> |
| <p>6. EXISTING UTILITY INFORMATION SHOWN HEREON HAS BEEN COLLECTED FROM VARIOUS SOURCES AND IS NOT GUARANTEED AS TO ACCURACY OR COMPLETENESS. THE CONTRACTOR SHALL CONTACT THE SAFE DIG HOTLINE (811) AND VERIFY ALL INFORMATION TO HIS SATISFACTION PRIOR TO ANY EXCAVATION. WHERE EXISTING UTILITIES ARE TO BE CROSSED BY PROPOSED CONSTRUCTION, TEST PITS SHALL BE DUG BY THE CONTRACTOR TO ASCERTAIN EXISTING INVERTS, MATERIALS AND SIZES. TEST PIT INFORMATION SHALL BE GIVEN TO THE ENGINEER PRIOR TO CONSTRUCTION TO PERMIT ADJUSTMENTS AS MAY BE REQUIRED TO AVOID UTILITY CONFLICTS.</p> | <p>20. NJDEP PERMITS HAVE BEEN OBTAINED FOR THIS PROJECT. THEY ARE PERMIT NO. 1500-17-0001.2 C2M170001. COASTAL WETLAND PERMIT 24, AND CENAP-OP-R-2017-00775-95 (NWP 13) DEPARTMENT OF THE ARMY NATIONAL WETLAND PERMIT NUMBER 13 FOR IOWA COURT, AND CENAP-OP-R-2018-00397-95 (NWP 13) DEPARTMENT OF THE ARMY NATIONAL WETLAND PERMIT NUMBER 13 FOR SOUTH GREEN STREET, THE NJDEP COASTAL WETLAND PERMIT 24 IS PENDING FOR SOUTH GREEN STREET. ALL WORK SHALL BE IN COMPLIANCE WITH THE STANDARD CONDITIONS AND THE SPECIAL CONDITIONS OF THE NJDEP PERMITS, A COPY OF WHICH IS INCLUDED IN THE PROJECT SPECIFICATIONS APPENDIX NO. 1.</p> | <p>30.1. AT LEAST ONE (1) WEEK PRIOR TO THE START OF CONSTRUCTION OPERATIONS.</p> <p>* THE CONTRACTOR SHALL SUBMIT THE VARIOUS HOMEOWNER NOTICES TO THE ENGINEER PRIOR TO THE START OF CONSTRUCTION FOR APPROVAL. IN THE EVENT THAT HOMEOWNERS ARE NOT NOTIFIED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS, THEN THE CONTRACTOR SHALL NOT PROCEED WITH THE WORK UNTIL THE REQUIRED NOTICE IS PROVIDED. THE OWNER SHALL NOT BE RESPONSIBLE FOR ANY DOWN TIME DUE TO THE CONTRACTORS FAILURE TO PROVIDE SAID HOMEOWNER NOTICE.</p> |
| <p>7. FOR UNDERGROUND UTILITY LOCATION ON SITE WHERE PUBLIC UTILITIES DO NOT MARK-OUT THEIR FACILITIES, THE CONTRACTOR SHALL ENGAGE THE SERVICES OF A NON-DESTRUCTIVE UNDERGROUND UTILITY LOCATION SERVICE. NO SEPARATE PAYMENT WILL BE MADE FOR THIS SERVICE. INCLUDE ALL COSTS IN THE "SITE WORK" ITEM.</p> | <p>21. CONTRACTOR SHOULD NOTE THAT THE ORDERING OF THE SHORELINE PLANTINGS WILL REQUIRE A LONG LEAD TIME BECAUSE THEY NEED TO BE ACCLIMATED TO THE SALINITY OF THE PARK ENVIRONMENT BEFORE BEING DELIVERED AND PLANTED ON-SITE.</p> | <p>31. QUANTITIES FOR CONSTRUCTION ITEMS SHOWN ARE APPROXIMATE. ENGINEER MAY ADJUST QUANTITIES IN FIELD.</p> |
| <p>8. THE CONTRACTOR SHALL BE RESPONSIBLE TO LOCATE ALL UTILITIES AND USE CAUTION WHEN DIGGING FOR UTILITIES. EXISTING UTILITIES SHALL BE EXPOSED BY HAND DIGGING AND SUPPORTED TO AVOID DAMAGE. SUPPORTS SHALL BE PROVIDED AT ALL UTILITY CROSSINGS. UTILITY SUPPORT DETAILS SHALL BE REVIEWED AND APPROVED BY THE APPROPRIATE UTILITY OWNER PRIOR TO INSTALLATION. NO SEPARATE PAYMENT.</p> | <p>22. CONTRACTOR SHALL PROVIDE PROTECTION AND SUPPORT TO UTILITY POLES DURING CONSTRUCTION IF NECESSARY. THE CONTRACTOR IS ADVISED OVERHEAD ELECTRICAL LINES MAY BE IN CLOSE PROXIMITY TO THE WORK AREA.</p> | <p>32. AT THE END OF EACH WORKDAY, THE CONTRACTOR SHALL CLEAN AND REMOVE ALL CONSTRUCTION DEBRIS FROM ROADWAYS AND MAINTAIN SAFE ACCESS TO ALL HOMES AND BUSINESSES FOR PEDESTRIANS AND VEHICLES.</p> |
| <p>9. THE CONTRACTOR SHALL NOT ORDER ANY MATERIALS UNTIL ALL TEST PITS HAVE BEEN EXCAVATED AND ANALYZED.</p> | <p>23. CONTRACTOR SHALL PROVIDE TEMPORARY RESTRAINT OF ALL EXISTING PIPE AND APPURTENANCES DISTURBED DURING CONSTRUCTION.</p> | <p>33. NO SEPARATE PAYMENT SHALL BE MADE FOR SAWCUTTING, REMOVAL OF CURB, SIDEWALK, OR CONCRETE PAVEMENT, INCLUDE ALL COSTS OF THE ABOVE IN THE VARIOUS ITEMS IN THE BID PROPOSAL.</p> |
| <p>10. CONTRACTOR SHALL PROVIDE TEMPORARY RESTRAINT OF ALL EXISTING PIPE AND APPURTENANCES DISTURBED DURING CONSTRUCTION. NO SEPARATE PAYMENT WILL BE MADE FOR THIS SERVICE. INCLUDE ALL COSTS IN THE VARIOUS ITEMS IN THE PROPOSAL.</p> | <p>24. NO MATERIALS OR EQUIPMENT, INCLUDING EXCAVATED SOILS AND BORROW FILL, SHALL REMAIN ON ROADWAYS, SIDEWALKS OR SHOULDERS OVERNIGHT. STOCKPILING OF MATERIALS IS ONLY ALLOWED DURING CONSTRUCTION HOURS. THE CONTRACTOR IS RESPONSIBLE FOR CLEANUP AND REMOVAL OF ALL MATERIAL ACCUMULATED FROM CONSTRUCTION ACTIVITIES ON A DAILY BASIS. CONTRACTOR SHALL COORDINATE WITH THE MUNICIPALITIES AND UTILIZE TOWNSHIP OWNED PROPERTY, IF ANY, FOR STAGING. NO OTHER AREAS SHALL BE USED WITHOUT WRITTEN AUTHORIZATION FROM THE PROPERTY OWNER AND APPROVAL FROM THE TOWNSHIP.</p> | <p>34. INSTALLATION OF HOT MIX ASPHALT SURFACE COURSE SHALL NOT BE PERMITTED UNTIL THE BASE COURSE IS APPROVED BY THE ENGINEER. THE ENGINEER MAY DIRECT THE CONTRACTOR TO MAKE CORRECTIVE MEASURES TO THE BASE COURSE PRIOR TO THE INSTALLATION OF THE SURFACE COURSE AT NO ADDITIONAL COST TO THE OWNER.</p> |
| <p>11. NO EXCAVATION SHALL BE LEFT OVERNIGHT. TRENCHES SHALL BE BACKFILLED AT THE END OF THE DAY. NO SEPARATE PAYMENT.</p> | | <p>35. NEW DRIVEWAY APRONS SHALL NOT EXCEED 12% UNLESS SHOWN OTHERWISE ON THE GRADING PLANS. IN AREAS WHERE SLOPE MAY EXCEED 12%, THE CONTRACTOR SHALL REVIEW WITH THE ENGINEER PRIOR TO THE POURING OF ANY DEPRESSED CURB AND DRIVEWAY APRONS. DRIVEWAY REPAIRS SHALL BE MADE WHERE NECESSARY TO LIMIT DRIVEWAY GRADES.</p> |
| <p>12. NO CONSTRUCTION ACTIVITY IS TO TAKE PLACE OUTSIDE THE LIMIT OF DISTURBANCE.</p> | | <p>36. THE TOPSOIL USED FOR THIS PROJECT SHALL BE IN STRICT CONFORMANCE TO THE PROJECT SPECIFICATIONS. ANY TOPSOIL NOT MEETING THE PROJECT SPECIFICATIONS SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.</p> |
| <p>13. ON IOWA COURT, CONTRACTOR SHALL, AT LIMIT OF PAVING, MILL 6" WIDE KEY 1 1/2" AVERAGE DEPTH OR SAWCUT EXISTING PAVEMENT FOR NEAT STRAIGHT LINE UNLESS OTHERWISE DIRECTED. ALL KEYSHALLS SHALL HAVE A SAWCUT, VERTICAL EDGE. MEET EXISTING GRADE AT OUTER LIMIT OF MILLING.</p> | | |
| <p>14. TACK COAT SHALL BE IN ACCORDANCE WITH NJDOT SPECIFICATION SECTION 401.03.02.</p> | | |

DISTRIBUTION OF QUANTITIES
BASE BID 'B' - SOUTH GREEN STREET

ITEM No.	ITEM DESCRIPTION	UNIT	ITEM DESIGNATION	SO. GREEN ST. SHEETS 7 & 8	SUB TOTAL	IF & WHERE	TOTAL QUANTITY
1	MOBILIZATION	L.S.	(M)	1	1	—	1
2	SITE WORK	L.S.	(M)	1	1	—	1
3	MAINTENANCE AND PROTECTION OF TRAFFIC	L.S.	(M)	1	1	—	1
4	SOIL EROSION AND SEDIMENT CONTROL	L.S.	(M)	1	1	—	1
5	PREPARATION OF SUBGRADE (STONE SILL)	S.Y.	(M)	705	705	—	705
6	1" CRUSHED STONE, 8" THICK	S.Y.	(M)	705	705	—	705
7	RIP-RAP, 30-100 LBS, 12" THICK	C.Y.	(M)	235	235	20	255
8	RIP-RAP, 50-150 LBS, VARIABLE THICKNESS	C.Y.	(M)	550	550	50	600
9	CAPSTONE, VARIOUS SIZES	TON	(M)	1175	1,175	25	1,200
10	TIMBER PILINGS, 10" TIP, NATURAL TAPER, 30' LONG (RENDERED NON-POLLUTING) WITH SIGNAGE	UNIT	(M)	3	3	—	3
11	BEACH SAND FILL	C.Y.	(M)	560	560	40	600
12	RIP-RAP STONE STABILIZATION (ROADWAY)	C.Y.	(M)	44	44	6	50
13	DEMOBILIZATION AND SITE RESTORATION	L.S.	(M)	1	1	—	1
14	POST-CONSTRUCTION AS-BUILT SURVEY	L.S.	(M)	1	1	—	1

JASON A. WORTH, P.E.
TOWNSHIP ENGINEER

John A. Smith 7-13-2018
 LICENSED PROFESSIONAL ENGINEER
 STATE OF NJ LICENSE No. GE49287

LITTLE EGG HARBOR TOWNSHIP & BOROUGH OF TUCKERTON

IOWA COURT & SOUTH GREEN
STREET LIVING SHORELINES PROJECT

LITTLE EGG HARBOR TOWNSHIP & BOROUGH OF TUCKERTON, OCEAN COUNTY, NEW JERSEY

FRONT END

PROJECT NOTES &
DISTRIBUTION OF QUANTITIES



DESIGNED BY	JAW	DRAWING	DOQ-1
CHECKED BY	JAW		
DRAWN BY	JAW	SHEET	2
DATE	7-12-2018		
SCALE	N.T.S.		
PROJ. NO.	LEHT-01730		
			OF 13

PROJECT INFORMATION:
FILE PATH: G:\Projects\LEHT\01730\Plans\
FILE NAME: LEHT-01730_IOWA COURT SITE PLAN 7-12-18.dwg
DATE: 7/12/2018 12:27PM
LAST SAVE BY: counlife

COPYRIGHT 2018, T&M ASSOCIATES - ALL RIGHTS RESERVED. THE COPYING OR REUSE OF THIS DOCUMENT OR PORTIONS THEREOF, FOR OTHER THAN THE ORIGINAL PROJECT ASSOCIATES IS PROHIBITED.

Survey Notes:
1) Planimetric and topographic features shown hereon have been drawn in accordance with field survey performed by GTS Consultants in March 2016 (Horizontal System is New Jersey State Plan Coordinate System (N.A.D. 1983) and Vertical Datum is North American Vertical Datum (N.A.V.D. 1988)).

LEGEND

- LOT LINES
- 1977 TIDELANDS CLAIM LINE
- HIGH TIDE LINE (ELEV ±2.10)
- MEAN HIGH WATER LINE (ELEV ±1.63)
- 1970 NJDEP WETLANDS LINE
- TOP OF BANK

DATUM INFORMATION

OSBORN ISLAND; ROSE CREEK; MYSTIC ISLAND NORTHWEST;
AND MYSTIC ISLAND SOUTHWEST

TIDAL DATUMS DETERMINED BY NJDEP BUREAU OF COASTAL ENGINEERING USING NOAA VDUTUM 3.4 SOFTWARE. ALSO USED AS A REFERENCE WAS TIDAL DATUM 853-4244 GRAVELING POINT, NJ BENCHMARK CONTROL STATION 855-7380 LEWES, FORT MILES, DE.

ALL DREDGE PLAN ELEVATIONS ARE BASED ON DEPTH BELOW MLW.

ALL MARSH RESTORATION PLANS ARE BASED ON NAVD 88.

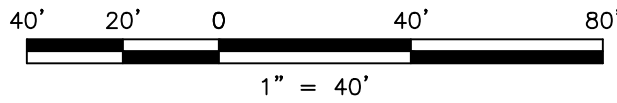
DATUM	MLLW	NAVD 88
HTL	3.81	2.10
MHHW	3.71	2.00
MHW	3.34	1.63
MTL	1.73	0.02
NAVD 88	1.71	0.00
MLW	0.12	-1.59
MLLW	0.00	-1.71

EXISTING CONDITIONS IOWA COURT

SCALE: 1"=40'

TIDELANDS NOTES:

- THE 1977 TIDELANDS CLAIM LINE AS SHOWN ARE DRAWN IN ACCORDANCE WITH BEST AVAILABLE TIDELANDS REGION SHAPEFILES ACQUIRED FROM THE "NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF GIS".
- THE 1970 WETLANDS LINE AS SHOWN ARE DRAWN IN ACCORDANCE WITH BEST AVAILABLE WETLANDS SHAPEFILES ACQUIRED FROM THE "NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF GIS".



JASON A. WORTH, P.E.
TOWNSHIP ENGINEER

7-13-2018
LICENSED PROFESSIONAL ENGINEER
STATE OF NJ LICENSE No. GE49287

LITTLE EGG HARBOR TOWNSHIP & BOROUGH OF TUCKERTON
IOWA COURT & SOUTH GREEN STREET LIVING
SHORELINES PROJECT
LITTLE EGG HARBOR TOWNSHIP & BOROUGH OF TUCKERTON, OCEAN COUNTY, NEW JERSEY

IOWA COURT
EXISTING CONDITIONS

AND
YOUR GOALS. OUR MISSION.

1144 HOOPER AVENUE, SUITE 202
TOMS RIVER, NJ 08753
TEL 732-473-3400
FAX 732-473-3408

NEW JERSEY BOARD OF PROFESSIONAL ENGINEERS
AND LAND SURVEYORS
CERTIFICATE OF AUTHORIZATION 245A27087500

OFFICES LOCATED IN:
CALIFORNIA, INDIANA, KENTUCKY,
MASSACHUSETTS, MICHIGAN, NEW JERSEY,
OHIO AND PENNSYLVANIA

DESIGNED BY JAW

CHECKED BY JAW

DRAWN BY JAW

DATE 7-12-2018

SCALE 1"=40'

PROJ. NO. LEHT-01730

DRAWING

EXC-1

SHEET

3

OF

13

COPYRIGHT 2018, T&M ASSOCIATES -- ALL RIGHTS RESERVED. THE COPYING OR REUSE
 OF THIS DOCUMENT OR PORTIONS THEREOF, FOR OTHER THAN THE ORIGINAL PROJECT
 PURPOSE, IS PROHIBITED. THE PURPOSE ORIGINALLY INTENDED, WITHOUT THE WRITTEN PERMISSION OF T&M
 ASSOCIATES IS PROHIBITED.

PROJECT INFORMATION:
 FILE NAME: G:\Projects\LIGHT\01730\Plans\
 FILE NAME: LIGHT\01730\LDWA COURT SITE PLAN 7-12-18.dwg
 DATE & TIME: 27 Jul 2016, 12:27PM
 LAST SAVE BY: cscnfile



SCALE: 1"=40'

1. CONTRACTOR SHOULD NOTE THAT THE ORDERING OF THE SHORELINE PLANTINGS WILL REQUIRE A LONG LEAD TIME BECAUSE THEY NEED TO BE ACCLIMATED TO THE SALINITY OF THE PROJECT AREA ENVIRONMENT BEFORE BEING DELIVERED AND PLANTED ON-SITE.
2. CONTRACTOR IS REFERRED TO THE LIVING SHORELINE NOTES ON SHEET CSD-1.

40' 20' 0 40' 80

1" = 40'

JASON A. WORTH, P.E.
TOWNSHIP ENGINEER

LITTLE EGG HARBOR TOWNSHIP & BOROUGH OF TUCKERTON
IOWA COURT & SOUTH GREEN STREET LIVING
SHORELINES PROJECT
LITTLE EGG HARBOR TOWNSHIP & BOROUGH OF TUCKERTON, OCEAN COUNTY, NEW JERSEY

IOWA COURT

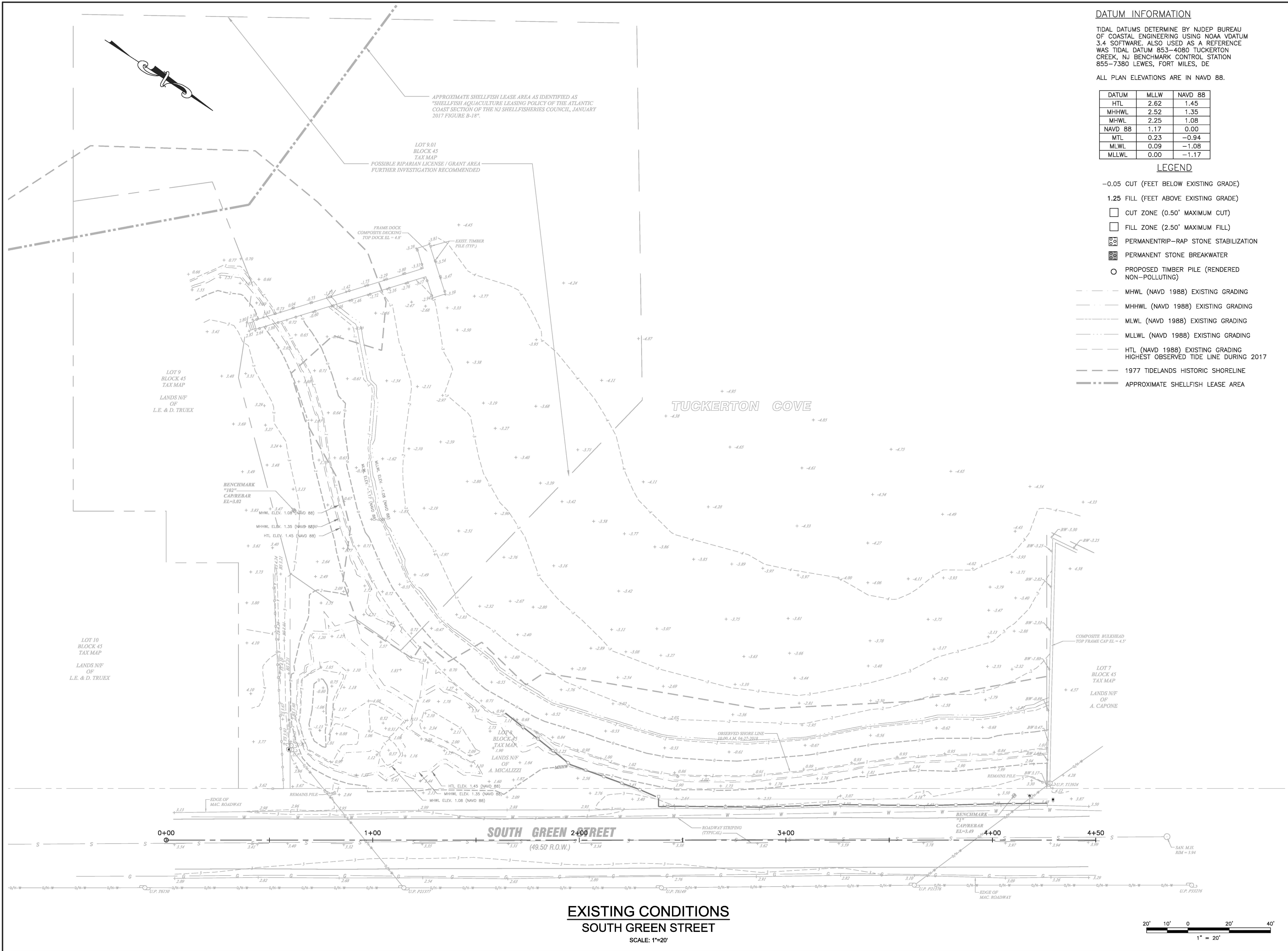
LANDSCAPING PLAN



NEW JERSEY BOARD OF PROFESSIONAL ENGINEERS
AND LAND SURVEYORS
CERTIFICATE OF AUTHORIZATION 24GA27987500

OFFICES LOCATED IN:
 CALIFORNIA, INDIANA, KENT
 MASSACHUSETTS, MICHIGAN, NEW
 YORK AND PENNSYLVANIA

DESIGNED BY	JAW	DRAWING	LSP-1
CHECKED BY	JAW		
DRAWN BY	JAW	SHEET	5
DATE	7-12-2018		
SCALE	1"=40'		
PROJ. NO.	LEHT-01730		



APPROXIMATE SHELLFISH LEASE AREA

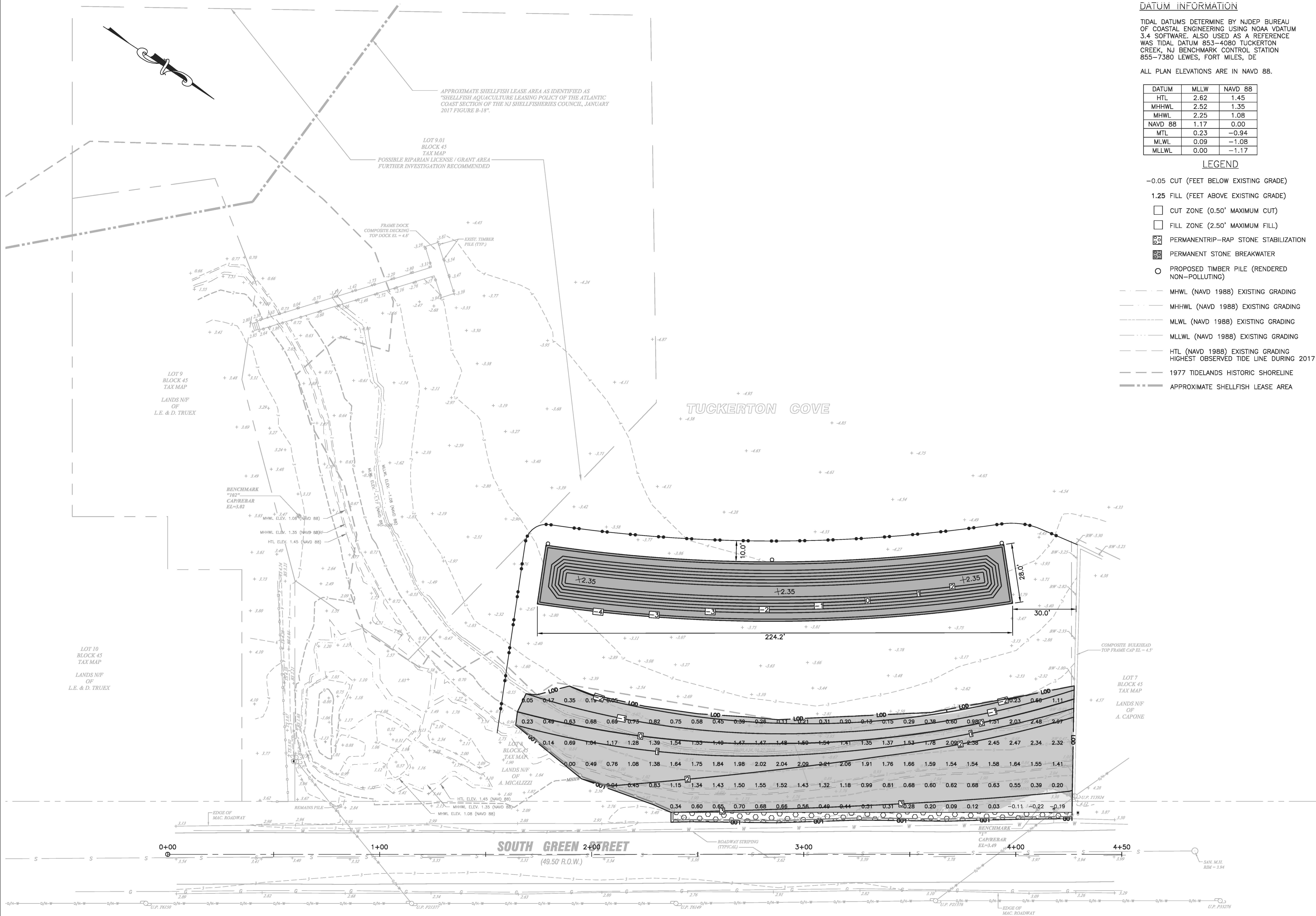
DESIGNED BY	JAW	DRAWING	EXC-2
CHECKED BY	JAW		
DRAWN BY	JAW	SHEET	6
DATE	7-12-2018		
SCALE	1"=20'		
PROJ. NO.	LEHT-01730		
			13



OF **13**

PROJECT INFORMATION:
FILE PATH: G:\Projects\LEHT\01730\Plans\
FILE NAME: LEHT-01730-CL-SHT03_GREEN STREET_CSP 7-12-18.dwg
DATE: 7/12/2018 9:14AM
LAST SAVE BY: countliffe

COPYRIGHT 2018, T&M ASSOCIATES - ALL RIGHTS RESERVED. THE COPYING OR REUSE
OF THIS DOCUMENT OR PORTIONS THEREOF, FOR OTHER THAN THE ORIGINAL PROJECT
PURPOSES, WITHOUT THE WRITTEN PERMISSION OF T&M ASSOCIATES IS PROHIBITED.



GRADING PLAN
SOUTH GREEN STREET
SCALE: 1"=20'

DATUM INFORMATION

TIDAL DATUMS DETERMINE BY NJDEP BUREAU OF COASTAL ENGINEERING USING NOAA VDATUM 3.4 SOFTWARE. ALSO USED AS A REFERENCE WAS TIDAL DATUM 853-4080 TUCKERTON CREEK, NJ BENCHMARK CONTROL STATION 855-7380 LEWES, FORT MILES, DE

ALL PLAN ELEVATIONS ARE IN NAVD 88.

DATUM	MLLW	NAVD 88
HTL	2.62	1.45
MHHWL	2.52	1.35
MHWL	2.25	1.08
NAVD 88	1.17	0.00
MTL	0.23	-0.94
MLWL	0.09	-1.08
MLLWL	0.00	-1.17

LEGEND

- 0.05 CUT (FEET BELOW EXISTING GRADE)
- 1.25 FILL (FEET ABOVE EXISTING GRADE)
- CUT ZONE (0.50' MAXIMUM CUT)
- FILL ZONE (2.50' MAXIMUM FILL)
- PERMANENT RIP-RAP STONE STABILIZATION
- PERMANENT STONE BREAKWATER
- PROPOSED TIMBER PILE (RENDERED NON-POLLUTING)
- MHWL (NAVD 1988) EXISTING GRADING
- MHHWL (NAVD 1988) EXISTING GRADING
- MLWL (NAVD 1988) EXISTING GRADING
- MLLWL (NAVD 1988) EXISTING GRADING
- HTL (NAVD 1988) EXISTING GRADING HIGHEST OBSERVED TIDE LINE DURING 2017
- 1977 TIDELANDS HISTORIC SHORELINE
- APPROXIMATE SHELLFISH LEASE AREA

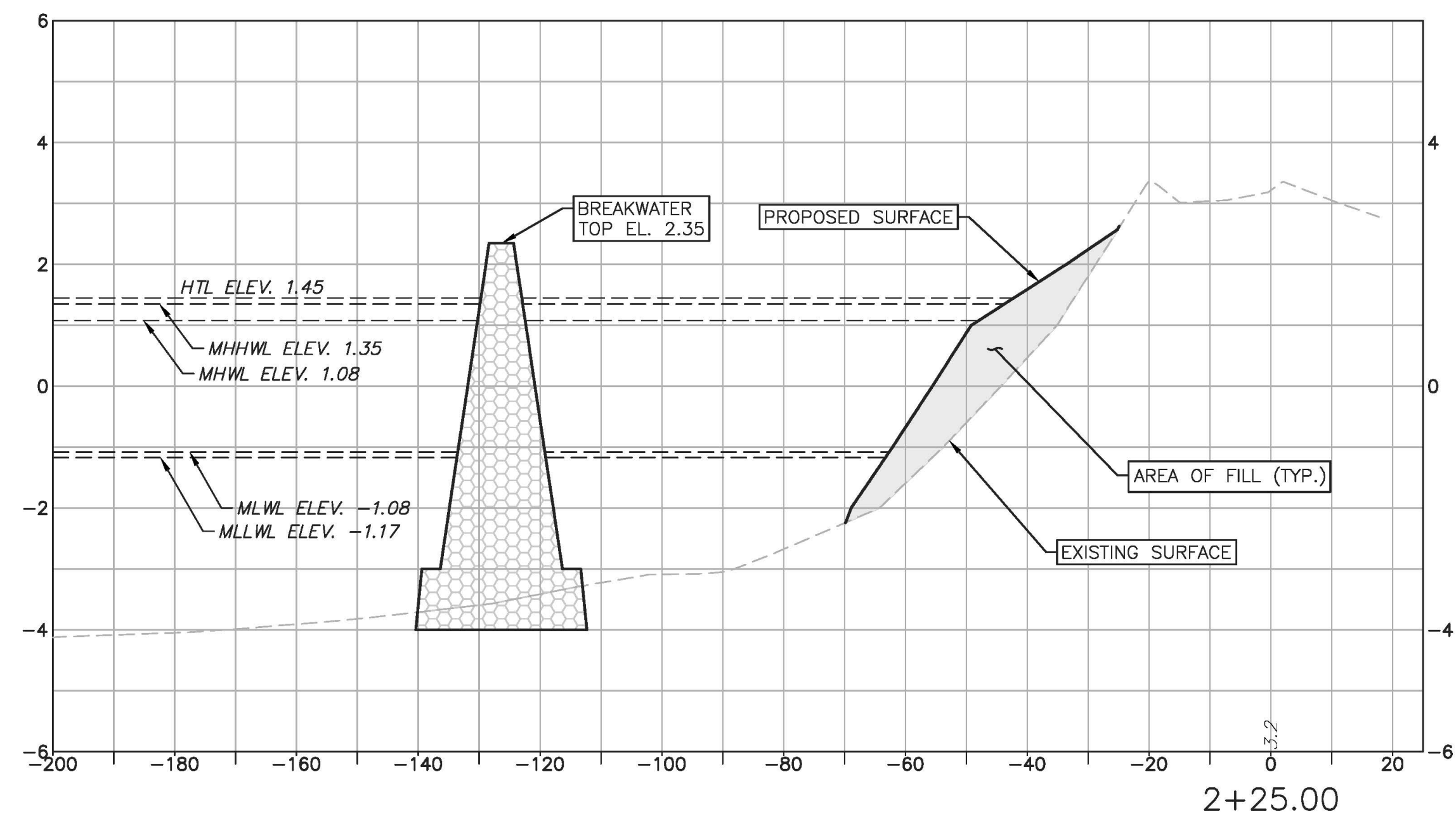
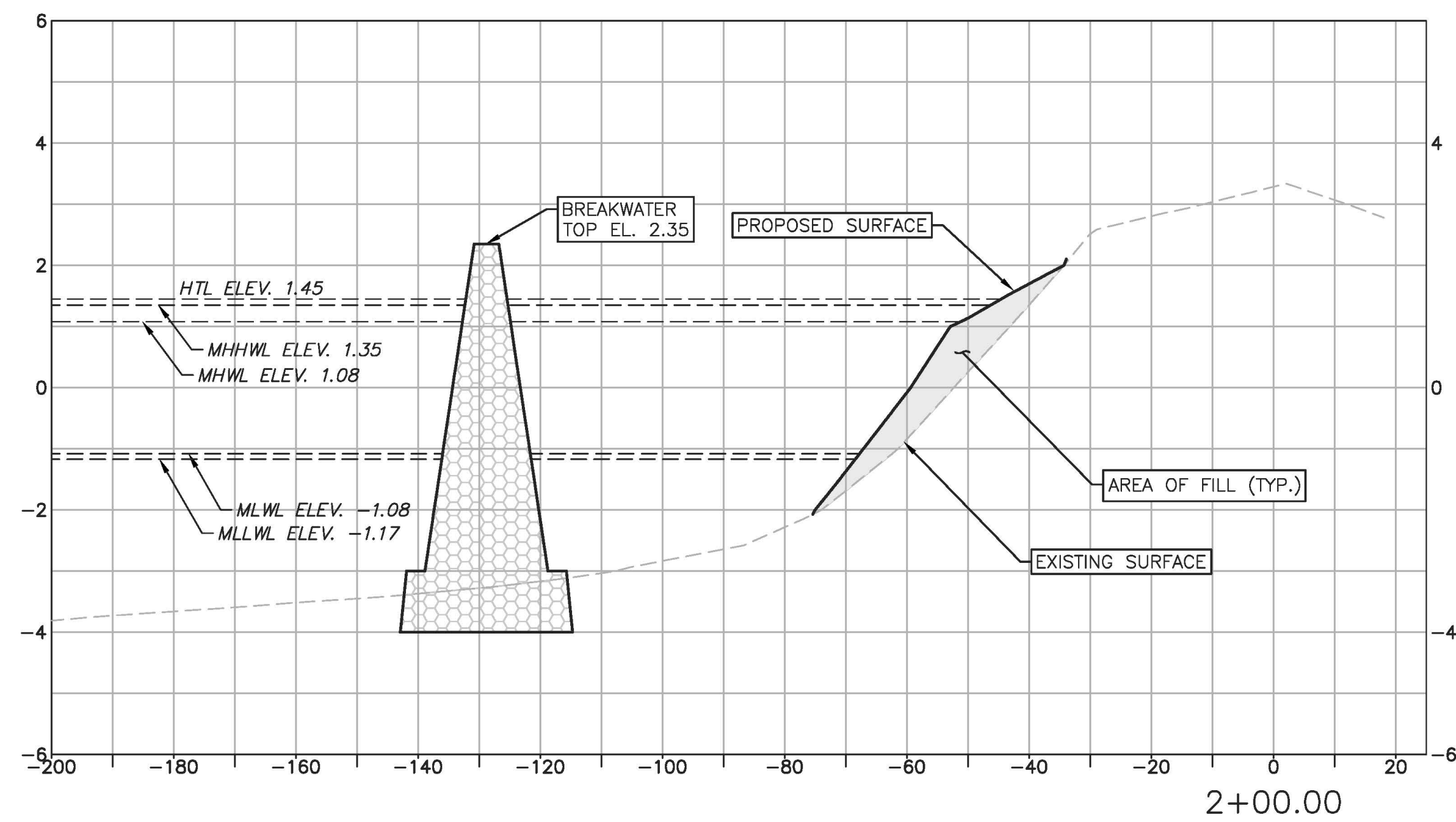
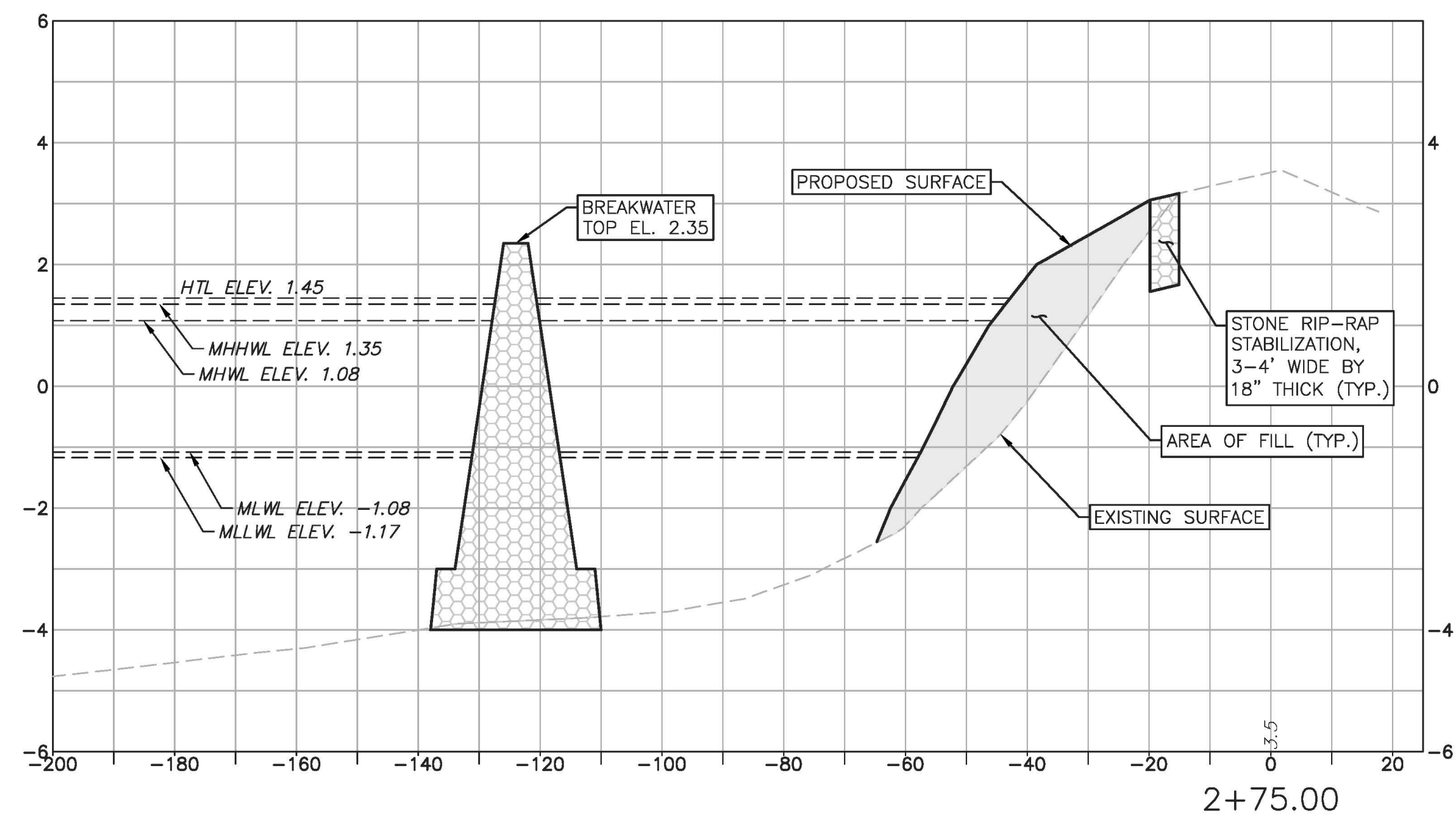
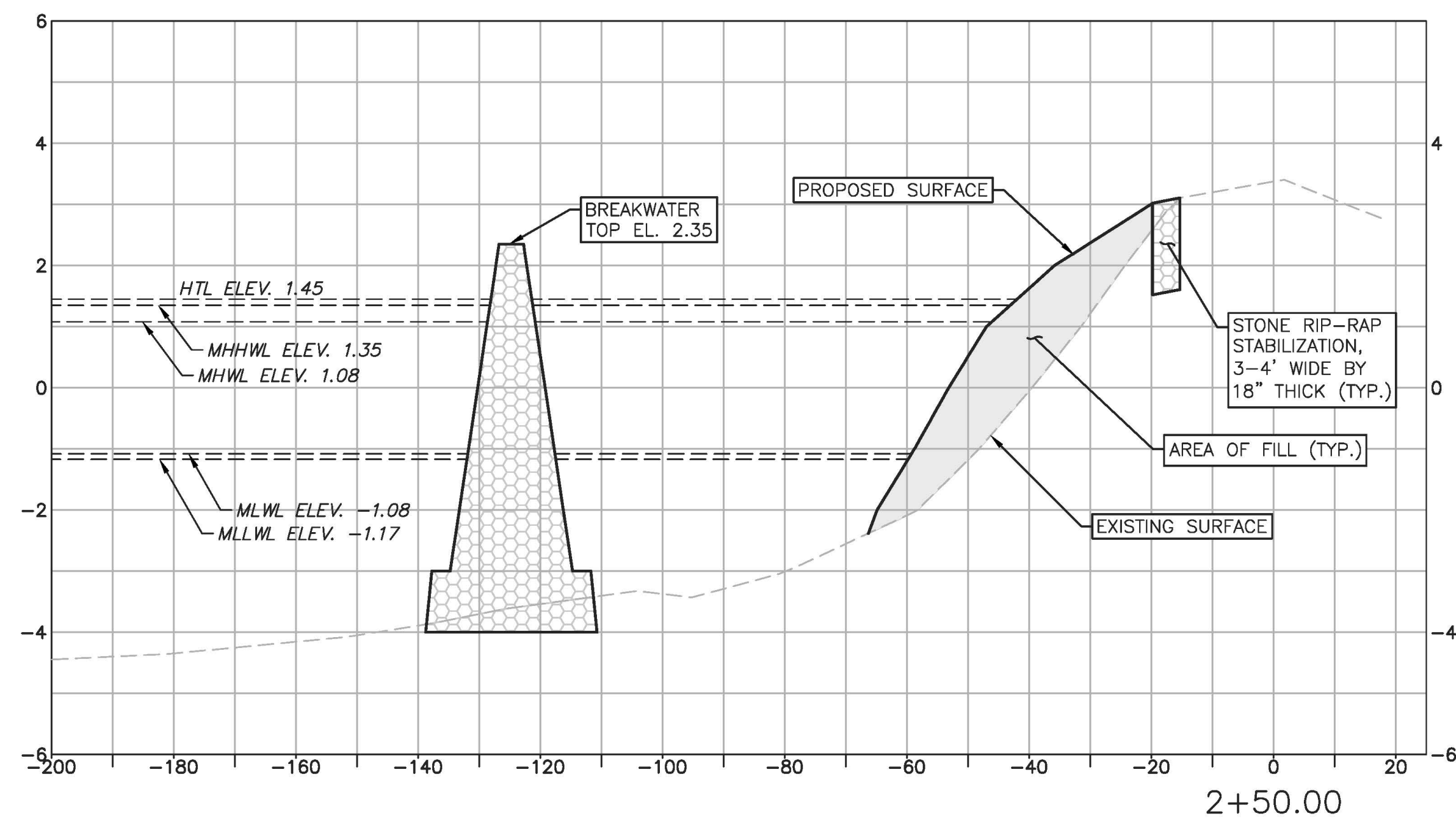
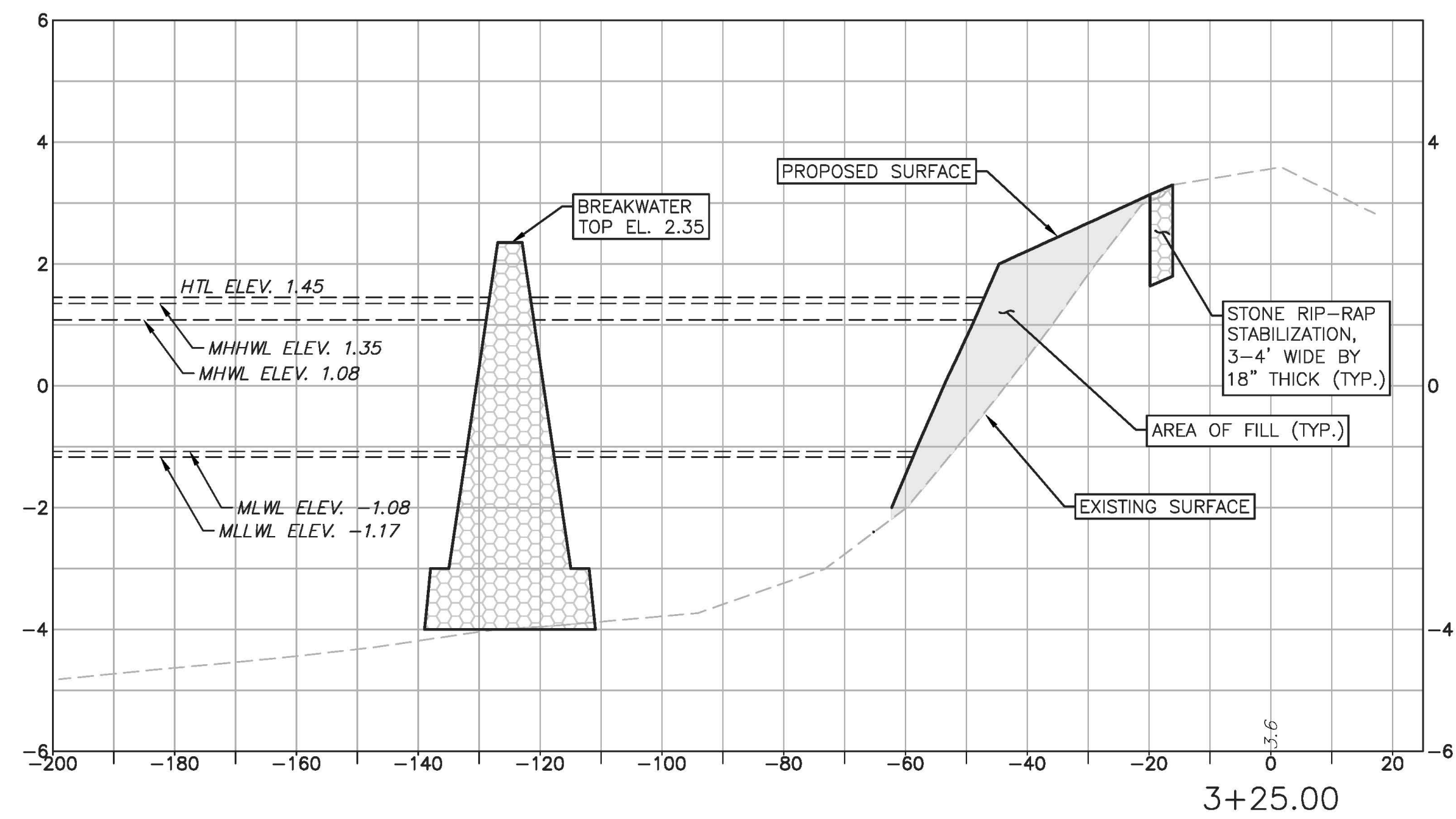
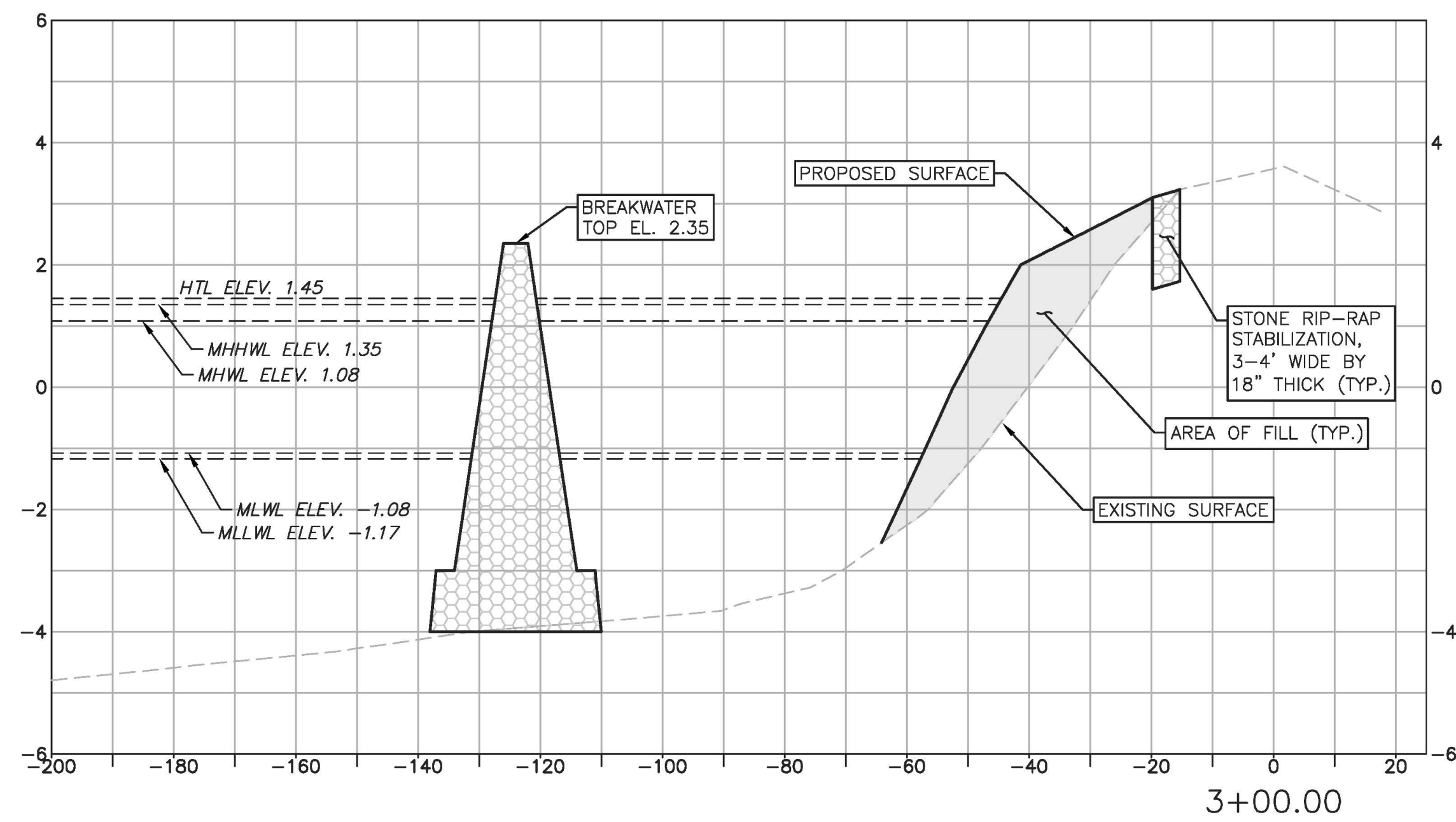
JASON A. WORTH, P.E.
TOWNSHIP ENGINEER

7-13-2018
LICENSED PROFESSIONAL ENGINEER
STATE OF NJ LICENSE No. GE49287

LITTLE EGG HARBOR TOWNSHIP & BOROUGH OF TUCKERTON
IOWA COURT & SOUTH GREEN STREET LIVING SHORELINES PROJECT
LITTLE EGG HARBOR TOWNSHIP & BOROUGH OF TUCKERTON, OCEAN COUNTY, NEW JERSEY
SOUTH GREEN STREET
GRADING PLAN

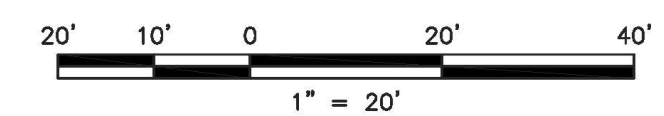
YOUR GOALS. OUR MISSION.
1144 HOOPER AVENUE, SUITE 202
TOMS RIVER, NJ 08753
TEL 732-473-3400
FAX 732-473-3408
NEW JERSEY BOARD OF PROFESSIONAL ENGINEERS AND LAND SURVEYORS
CERTIFICATE OF AUTHORIZATION 263A2787900
OFFICES LOCATED IN:
CALIFORNIA, INDIANA, KENTUCKY,
MASSACHUSETTS, MICHIGAN, NEW JERSEY,
OHIO AND PENNSYLVANIA

DESIGNED BY JAW
CHECKED BY JAW
DRAWN BY JAW
DATE 7-12-2018
SCALE 1"=20'
PROJ. NO. LEHT-01730
DRAWING GRD-1
SHEET 8
OF 13



CROSS SECTIONS SOUTH GREEN STREET

SCALE: 1"=20'

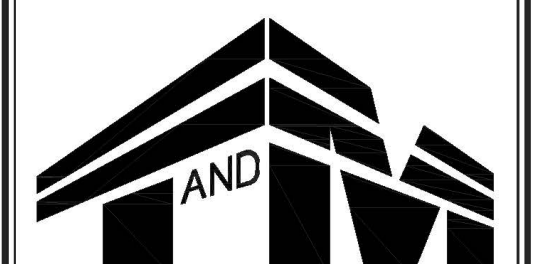
[illegible]

JASON A. WORTH, P.E.
TOWNSHIP ENGINEER

Jan A. Smith 7-13-2018
 LICENSED PROFESSIONAL ENGINEER
 STATE OF NJ LICENSE No. GE49287

LITTLE EGG HARBOR TOWNSHIP & BOROUGH OF TUCKERTON
IOWA COURT & SOUTH GREEN STREET LIVING
SHORELINES PROJECT
LITTLE EGG HARBOR TOWNSHIP & BOROUGH OF TUCKERTON, OCEAN COUNTY, NEW JERSEY

SOUTH GREEN STREET
CROSS SECTIONS
(STA. 2+00 TO 3+50)



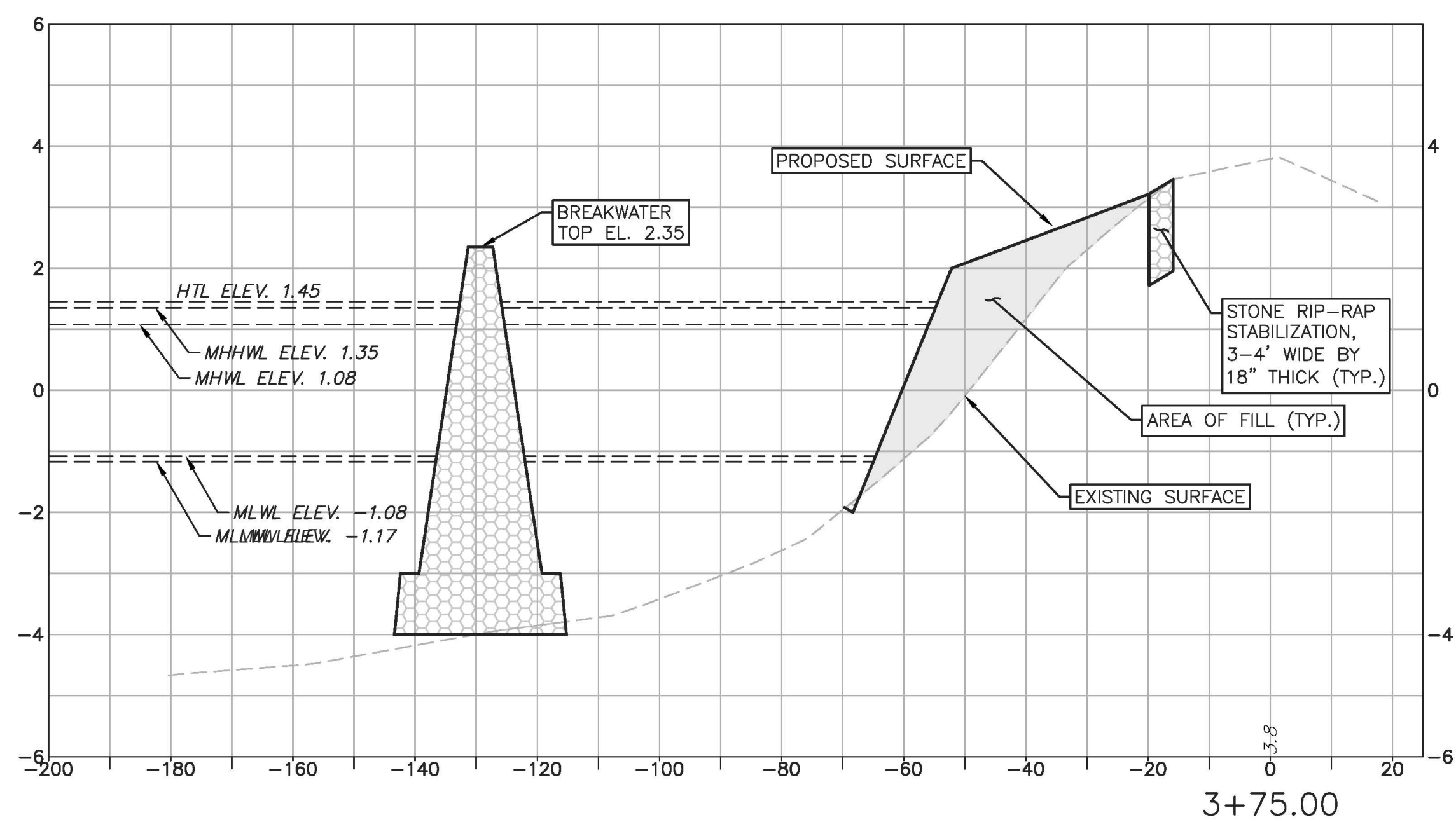
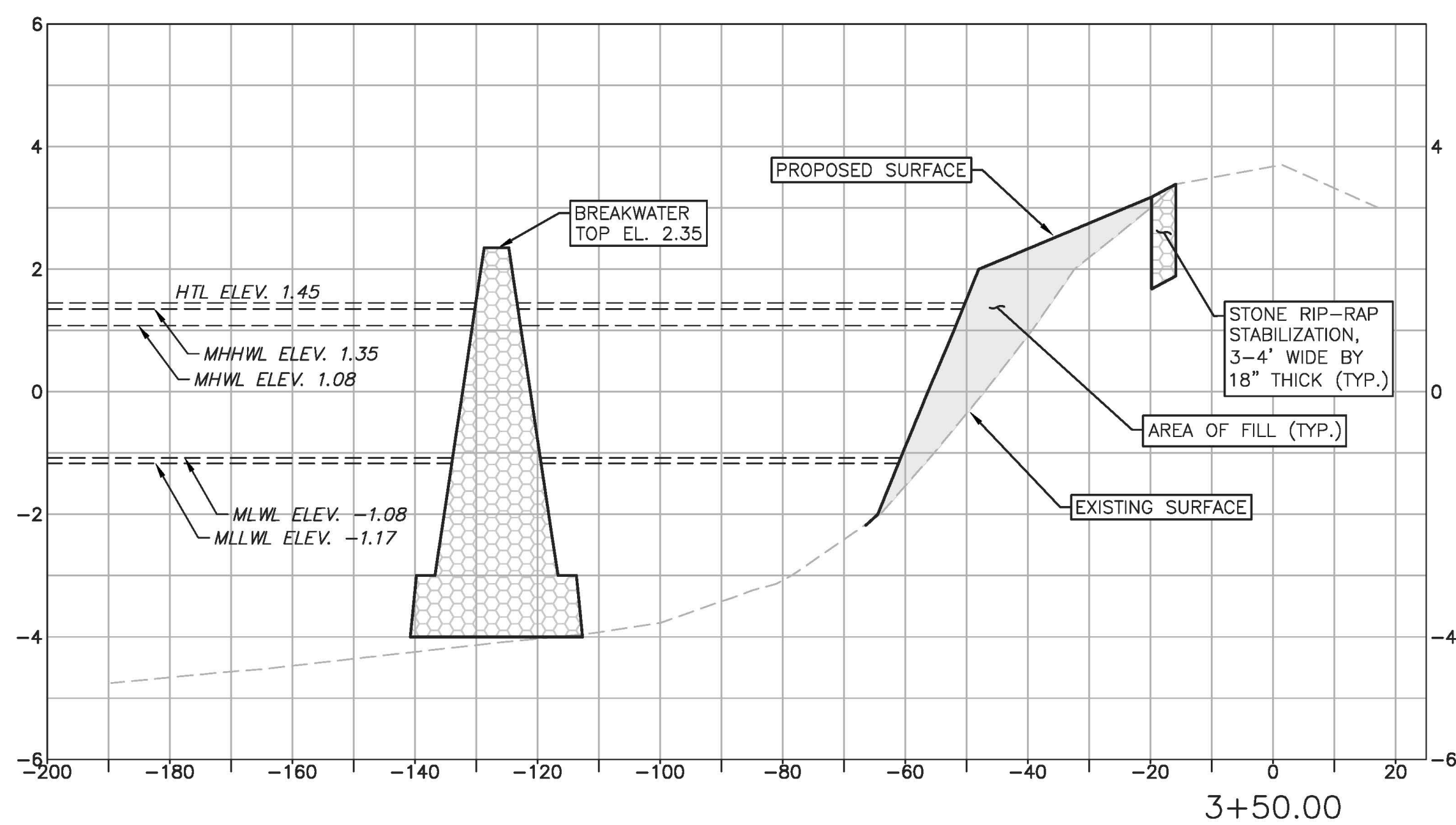
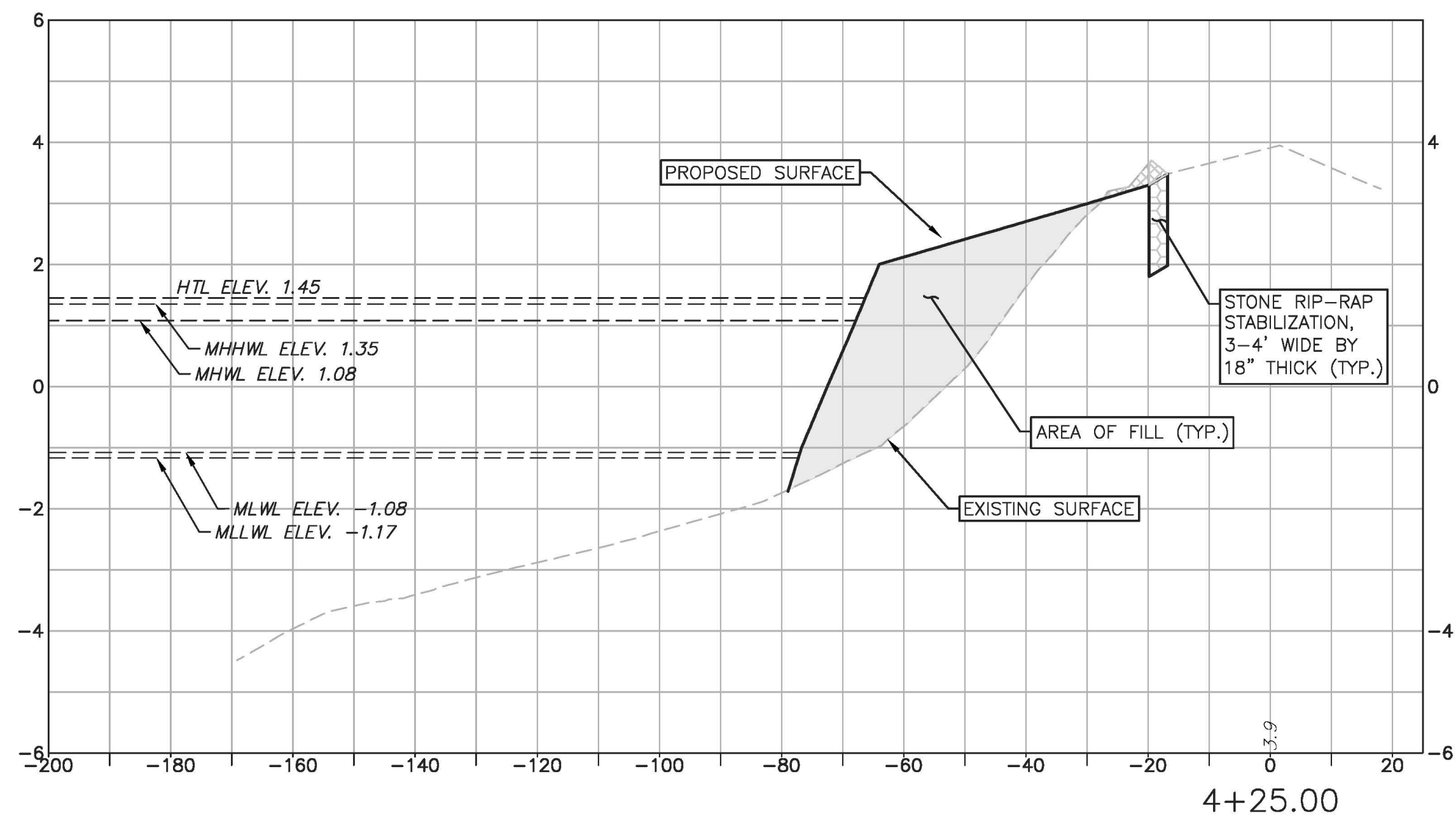
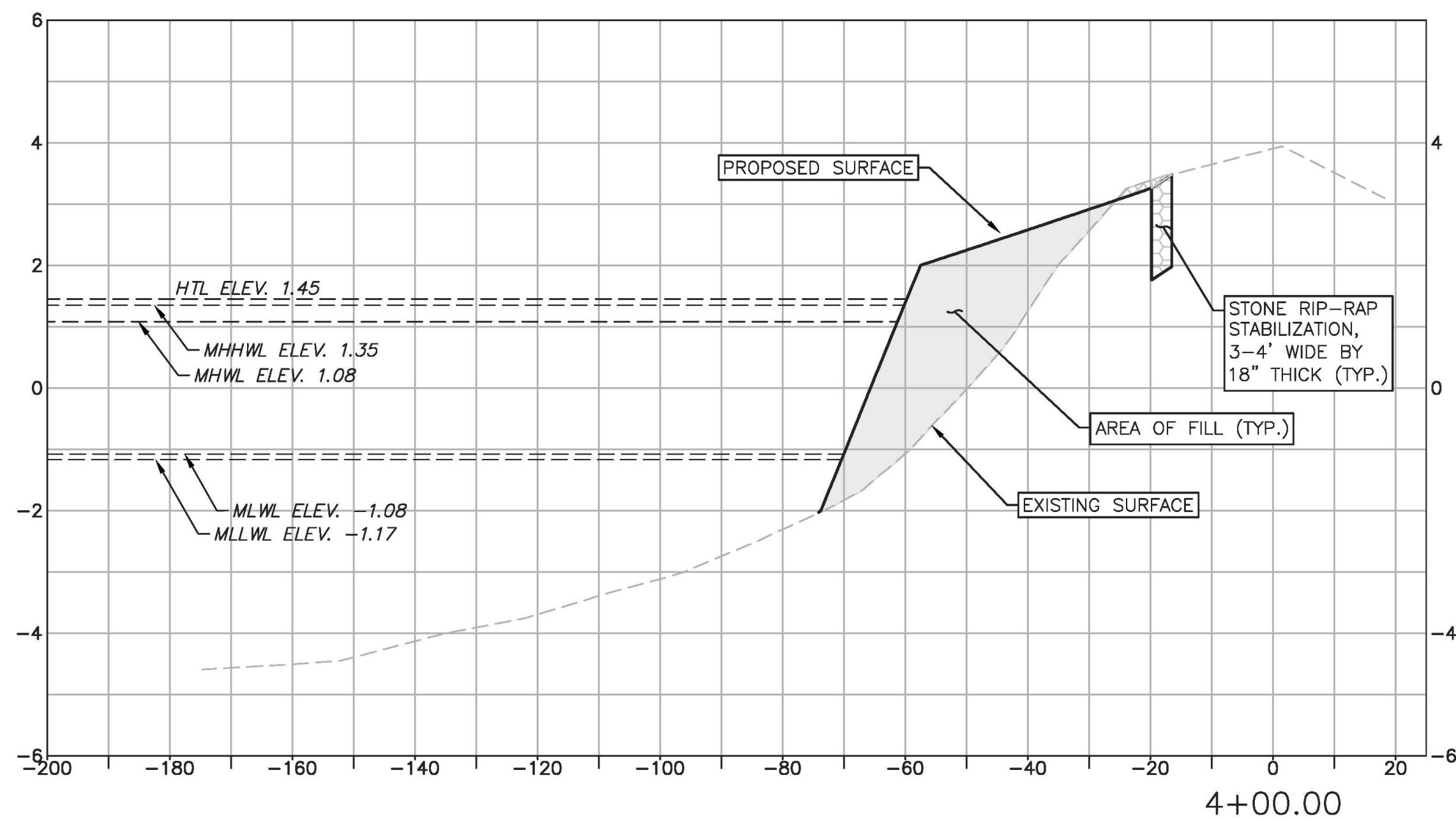
YOUR GOALS. OUR MISSION.

**1144 HOOPER AVENUE, SUITE 202
TOMS RIVER, NJ 08753
TEL 732-473-3400
FAX 732-473-3408**

NEW JERSEY BOARD OF PROFESSIONAL ENGINEERS
AND LAND SURVEYORS
CERTIFICATE OF AUTHORIZATION 24GA27987500

OFFICES LOCATED IN:
CALIFORNIA, INDIANA, KENTUCKY,
MASSACHUSETTS, MICHIGAN, NEW JERSEY,
OHIO AND PENNSYLVANIA

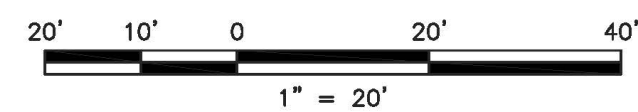
DESIGNED BY	JAW	DRAWING	CSX-1
CHECKED BY	JAW		
DRAWN BY	JAW	SHEET	9 OF 13
DATE	7-12-2018		
SCALE	1"=20'		
PROJ. NO.	LEHT-01730		



CROSS SECTIONS

SOUTH GREEN STREET

SCALE: 1"=20'



PROJECT INFORMATION:
FILE PATH: G:\Projects\LEHT\01730\Plans\
FILE NAME: LEHT-01730-CL-SHT03_GREEN STREET_CSP 7-12-18.dwg
LAST SAVED DATE AND TIME: 26 Jul 2018, 5:53PM
LAST SAVE BY: cunliffe

COPYRIGHT 2018, T&M ASSOCIATES – ALL RIGHTS RESERVED. THE COPYING OR REUSE OF THIS DOCUMENT OR PORTIONS THEREOF, FOR OTHER THAN THE ORIGINAL PROJECT OR THE PURPOSE ORIGINALLY INTENDED, WITHOUT THE WRITTEN PERMISSION OF T&M ASSOCIATES IS PROHIBITED.

[illegible]

JASON A. WORTH, P.E.
TOWNSHIP ENGINEER

John A. Smith 7-13-2018
 LICENSED PROFESSIONAL ENGINEER
 STATE OF NJ LICENSE No. GE49287

LITTLE EGG HARBOR TOWNSHIP & BOROUGH OF TUCKERTON

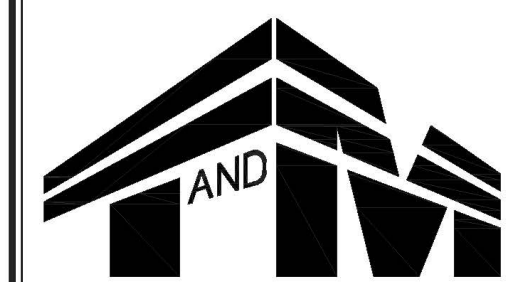
IOWA COURT & SOUTH GREEN STREET LIVING
SHORELINES PROJECT

LITTLE EGG HARBOR TOWNSHIP & BOROUGH OF TUCKERTON, OCEAN COUNTY, NEW JERSEY

SOUTH GREEN STREET

CROSS SECTIONS

(STA. 3+50 TO 4+25)

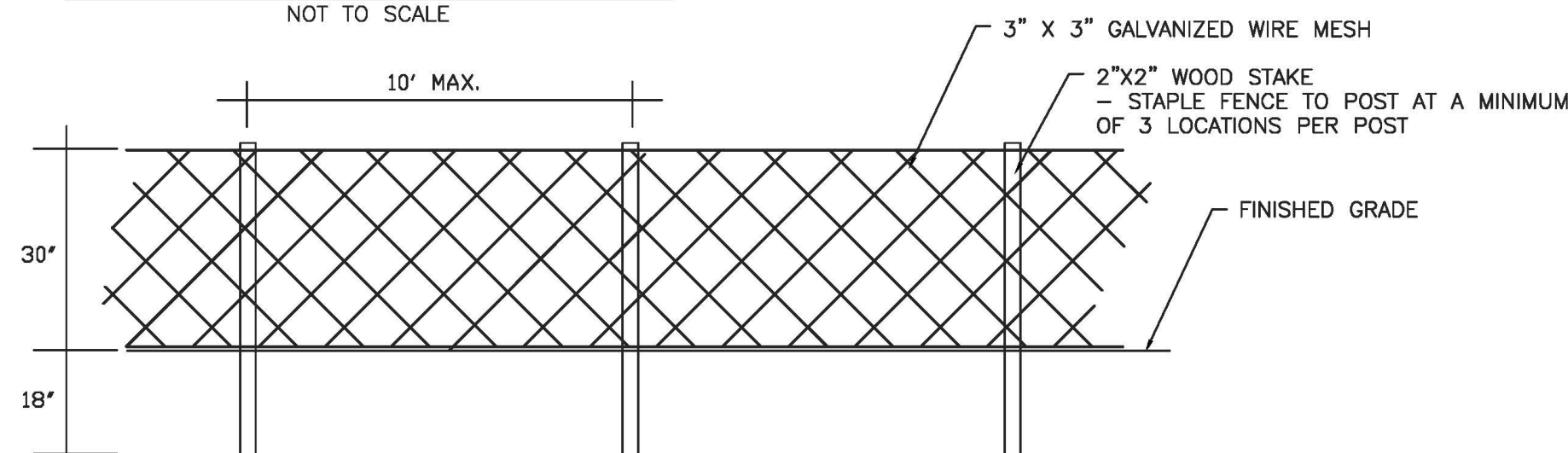
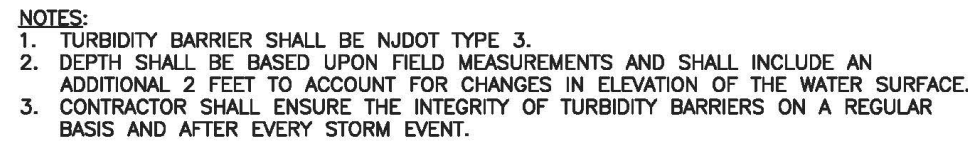


**1144 HOOPER AVENUE, SUITE 202
TOMS RIVER, NJ 08753
TEL 732-473-3400
FAX 732-473-3408**

NEW JERSEY BOARD OF PROFESSIONAL ENGINEERS
AND LAND SURVEYORS
CERTIFICATE OF AUTHORIZATION 24GA27987500

OFFICES LOCATED IN:
CALIFORNIA, INDIANA, KENTUCKY,
MASSACHUSETTS, MICHIGAN, NEW JERSEY,
OHIO AND PENNSYLVANIA

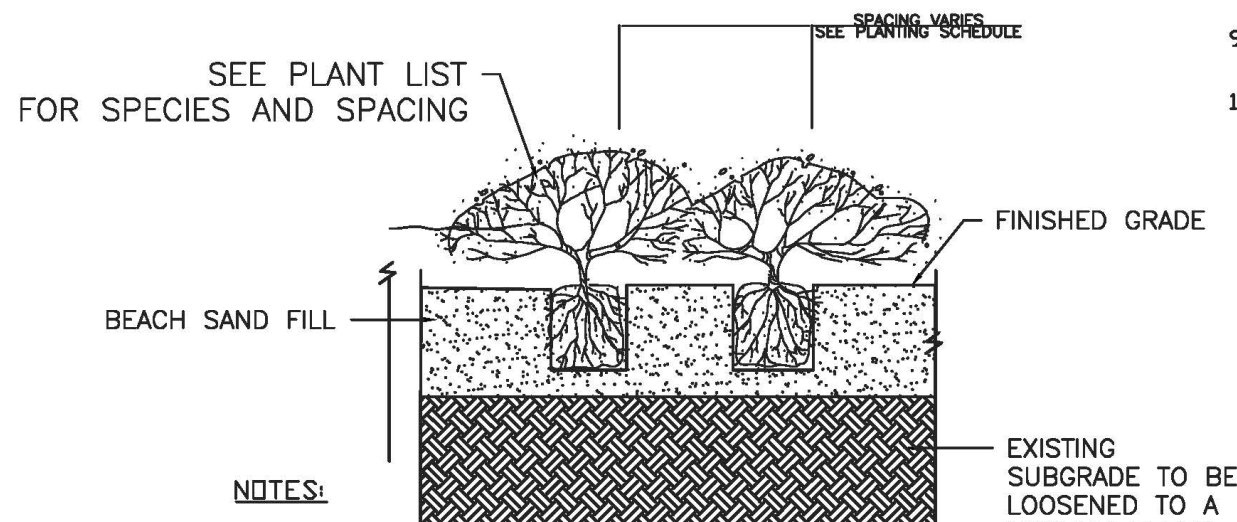
DESIGNED BY	JAW	DRAWING	CSX-2
CHECKED BY	JAW		
DRAWN BY	JAW	SHEET	10
DATE	7-12-2018		
SCALE	1"=20'		
PROJ. NO.	LEHT-01730		
			OF 13



NOT TO SCALE



NOT TO SCALE



NOTES:

1. GROUND COVER MATERIAL SHALL BEAR SAME MINIMUM DEPTH
RELATION TO FINISHED GRADE AS IT BORE TO OF 6"
PREVIOUS GRADE IN THE NURSERY.
2. SLOW RELEASE FERTILIZER TO BE PLACED IN THE
BOTTOM OF EACH PLUG PLANTED IN THE MARSH AREA.

PLUG PLANTING

NOT TO SCALE

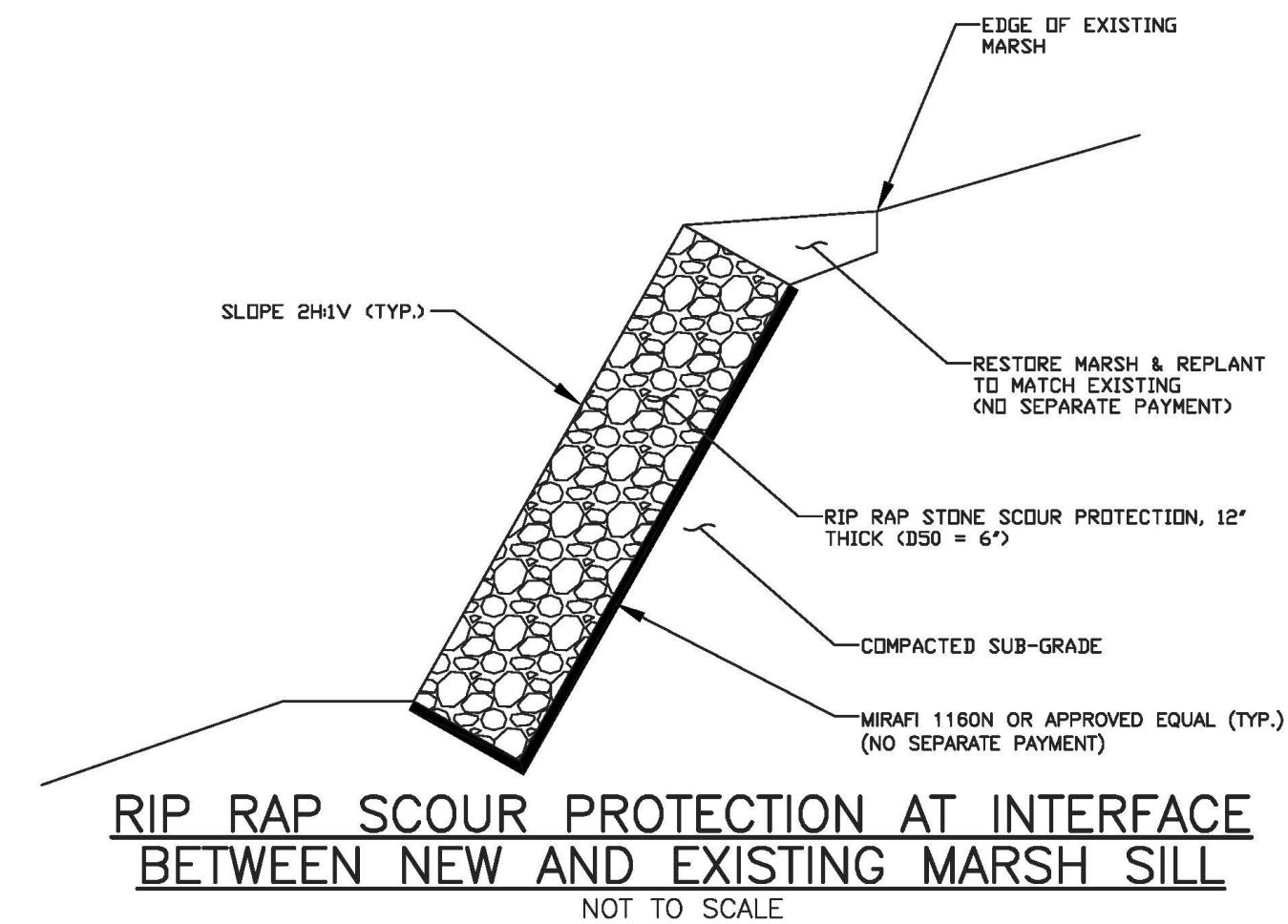


NOT TO SCALE



NOT TO SCALE

1. GOSSE EXCLUSION FENCING TO BE INSTALLED WITH ALL NEWLY PLANTED AQUATIC VEGETATION (NO SEPARATE PAYMENT).
2. DUE TO THE ERODIVE NATURE OF THE MARSH AREA, GRADES SHOWN SHALL BE CONSIDERED APPROXIMATE. THE EXISTING ROADWAY AND MARSH ELEVATION SHALL BE USED AS A BENCHMARK FOR THE ENGINEERED MARSH.
3. SAND FILL FOR THE MARSH SHALL BE SUBJECT TO A SETTLING PERIOD THROUGH THE TIDE CYCLE, AND ELEVATIONS ADJUSTED PRIOR TO PLANTING.
4. PLANTING OF MARSH VEGETATION SHALL COINCIDE WITH THE BEGINNING OF THE SPRING GROWING SEASON (MARCH 20 - APRIL 20 OR AS CLIMATIC CONDITIONS PERMIT).
5. ALL AQUATIC PLANTINGS TO BE CONDITIONED TO THE LOCAL WATER SALINITY AND PH, BY THE GROWER AT THE CONTRACTOR'S REQUEST. DOCUMENTATION SHALL BE PROVIDED TO THE ENGINEER DEMONSTRATING COMPLIANCE WITH THIS REQUIREMENT..
6. CONTRACTOR SHALL ALLOW A LEAD TIME FOR PLANTING STOCK TO BE GROWN, CONDITIONED, AND DELIVERED IN ACCORDANCE WITH NOTES 4 AND 5 ABOVE.
7. SLOW RELEASE FERTILIZER SHALL BE PLACED IN THE BOTTOM OF EACH PLUG PLANTING, NOT BACKFILLED, AND COMPACTED, PRIOR TO PLANTING. PRODUCT CUT SHEET TO BE PROVIDED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION (NO SEPARATE PAYMENT).
8. ENGINEERED MARSH AREA SHALL BE CONSTRUCTED TO GENTLY SLOPE DOWN TO THE WATER.
9. CONTRACTOR SHALL GUARANTEE ALL MARSH AREA PLANTINGS THROUGH THE END OF THE SECOND GROWING SEASON AFTER INITIAL INSTALLATION.
10. CONTRACTOR TO NOTIFY THE ENGINEER AT LEAST 48 HOURS PRIOR TO THE START OF AQUATIC PLANTING OPERATIONS.



NOT TO SCALE

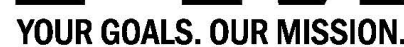
JASON A. WORTH, P.E.
TOWNSHIP ENGINEER

7-13-2018
 LICENSED PROFESSIONAL ENGINEER
 STATE OF NJ LICENSE No. GE49287

LITTLE EGG HARBOR TOWNSHIP & BOROUGH OF TUCKERTON
IOWA COURT & SOUTH GREEN STREET LIVING
SHORELINES PROJECT
LITTLE EGG HARBOR TOWNSHIP & BOROUGH OF TUCKERTON, OCEAN COUNTY, NEW JERSEY

CONSTRUCTION DETAILS

CONSTRUCTION DETAILS



**1144 HOOPER AVENUE, SUITE 202
TOMS RIVER, NJ 08753
TEL 732-473-3400
FAX 732-473-3408**

NEW JERSEY BOARD OF PROFESSIONAL ENGINEERS
AND LAND SURVEYORS
CERTIFICATE OF AUTHORIZATION 24GA27987500

OFFICES LOCATED IN:
CALIFORNIA, INDIANA, KENTUCKY,
MASSACHUSETTS, MICHIGAN, NEW JERSEY,
OHIO AND PENNSYLVANIA

DESIGNED BY 1036

	JAW
CHECKED BY	

	JAW
DRAWN BY	

	JAW
DATE	

DATE	7-12-2018
TIME	

SCALE N.T.S.

PROJ. NO. LEHT-01730

— 100 —

DRAWIN

cs

SHEET

1

2

O



PILE MOUNTED CAUTION SIGNAGE



BRICK PAVER DRIVEWAY DETAIL



Page 12 of 15



Page 11 of 12

BENCH DETAIL
NOT TO SCALE



NOT TO SCALE



NJ NATURAL LANDS TRUST
EDUCATIONAL SIGNAGE
NOT TO SCALE



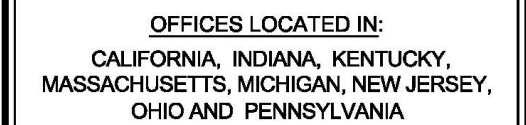
NOT TO SCALE

JASON A. WORTH, P.E.
TOWNSHIP ENGINEER

LITTLE EGG HARBOR TOWNSHIP & BOROUGH OF TUCKERTON
IOWA COURT & SOUTH GREEN STREET LIVING
SHORELINES PROJECT
LITTLE EGG HARBOR TOWNSHIP & BOROUGH OF TUCKERTON, OCEAN COUNTY, NEW
JERSEY

CONSTRUCTION DETAILS

CONSTRUCTION DETAILS



DESIGNED BY	JAW	DRAWING	CSD-2
CHECKED BY	JAW		
DRAWN BY	JAW	SHEET	12
DATE	7-12-2018		
SCALE	N.T.S.		
PROJ. NO.	LEHT-01730	OF	13

STANDARD FOR TEMPORARY VEGETATIVE COVER FOR SOIL STABILIZATION

Purpose
Establishment of temporary vegetative cover on soils exposed for periods of two (2) to six (6) months which are not being graded, but under active construction or not scheduled for permanent seeding within 180 days.

When Applicable
To temporarily stabilize the soil and reduce damage from wind and water erosion until permanent stabilization is accomplished.

Water Quality Enhancement
Provides temporary protection against the impacts of wind and rain. Allow for the one foot movement of stormwater runoff, increase infiltration and reduce soil and nutrient loss, protecting streams and other downstream resources.

On exposed soils that have the potential for causing off-site environmental damage.

- Methods and Materials**
1. **Site Preparation**
Grades as needed and feasible to permit the use of conventional equipment for seedbed preparation, seeding, mulch application, and mulch erosion. All grading shall be done in accordance with Standards for Land Grading, pp. 10-14.
 2. **Seed Selection**
A. Select seed mixtures as recommended in Table 2-1.
 3. **Seeding**
A. Broadcast seed uniformly by hand, machine, or by air.
 4. **Mulch**
A. Apply mulch as recommended in Table 2-1.
 5. **Water Management**
A. Install erosion control practices or facilities such as diversion berms, silt fences, sediment basins, sediment basins, sediment basins, and sediment basins.
 6. **Work Area Protection**
A. Work area protection shall be installed on all areas of exposed soil.
 7. **Access**
A. Provide access to all areas of exposed soil.

STANDARD FOR PERMANENT VEGETATIVE COVER FOR SOIL STABILIZATION

Purpose
Establishment of permanent vegetative cover on exposed soils where permanent stabilization is needed for long-term protection.

When Applicable
To permanently stabilize the soil, ensuring conservation of soil and water, and to enhance the environment.

Water Quality Enhancement
Slows the overland movement of stormwater runoff, increases infiltration and reduces soil and nutrient loss, protecting streams and other downstream resources.

On exposed soils that have the potential for causing off-site environmental damage.

- Methods and Materials**
1. **Site Preparation**
Grades as needed and feasible to permit the use of conventional equipment for seedbed preparation, seeding, mulch application, and mulch erosion. All grading shall be done in accordance with Standards for Land Grading, pp. 10-14.
 2. **Seed Selection**
A. Select seed mixtures as recommended in Table 2-1.
 3. **Seeding**
A. Broadcast seed uniformly by hand, machine, or by air.
 4. **Mulch**
A. Apply mulch as recommended in Table 2-1.
 5. **Water Management**
A. Install erosion control practices or facilities such as diversion berms, silt fences, sediment basins, sediment basins, and sediment basins.
 6. **Work Area Protection**
A. Work area protection shall be installed on all areas of exposed soil.
 7. **Access**
A. Provide access to all areas of exposed soil.

STANDARD FOR MANAGEMENT OF HIGH ACID-PRODUCING SOILS

Purpose
High acid-producing soils are soils with a pH of 4.0 or less or contain iron sulfide.

When Applicable
To prevent or limit erosion and soil loss, and spreading by erosion of material on and off-site and to minimize erosion, sedimentation and associated damage. High acid-producing soils may require special treatment, such as the use of lime, to neutralize the soil.

Water Quality Enhancement
Prevents an immediate, permanent vegetative cover to the soil from the impacts of wind and rain and prevents soil and nutrient losses to streams and other downstream conveyance from erosion.

On exposed soils that have the potential for causing off-site environmental damage.

- Methods and Materials**
1. **Site Preparation**
Grades as needed and feasible to permit the use of conventional equipment for seedbed preparation, seeding, mulch application, and mulch erosion. All grading shall be done in accordance with Standards for Land Grading, pp. 10-14.
 2. **Seed Selection**
A. Select seed mixtures as recommended in Table 2-1.
 3. **Seeding**
A. Broadcast seed uniformly by hand, machine, or by air.
 4. **Mulch**
A. Apply mulch as recommended in Table 2-1.
 5. **Water Management**
A. Install erosion control practices or facilities such as diversion berms, silt fences, sediment basins, sediment basins, and sediment basins.
 6. **Work Area Protection**
A. Work area protection shall be installed on all areas of exposed soil.
 7. **Access**
A. Provide access to all areas of exposed soil.

STANDARD FOR PERMANENT STABILIZATION WITH SOIL

Purpose
Establishment of permanent vegetative cover on exposed soils where permanent stabilization is needed for long-term protection.

When Applicable
To permanently stabilize the soil, ensuring conservation of soil and water, and to enhance the environment.

Water Quality Enhancement
Slows the overland movement of stormwater runoff, increases infiltration and reduces soil and nutrient loss, protecting streams and other downstream resources.

On exposed soils that have the potential for causing off-site environmental damage.

- Methods and Materials**
1. **Site Preparation**
Grades as needed and feasible to permit the use of conventional equipment for seedbed preparation, seeding, mulch application, and mulch erosion. All grading shall be done in accordance with Standards for Land Grading, pp. 10-14.
 2. **Seed Selection**
A. Select seed mixtures as recommended in Table 2-1.
 3. **Seeding**
A. Broadcast seed uniformly by hand, machine, or by air.
 4. **Mulch**
A. Apply mulch as recommended in Table 2-1.
 5. **Water Management**
A. Install erosion control practices or facilities such as diversion berms, silt fences, sediment basins, sediment basins, and sediment basins.
 6. **Work Area Protection**
A. Work area protection shall be installed on all areas of exposed soil.
 7. **Access**
A. Provide access to all areas of exposed soil.

STANDARD FOR TOPSOILING

Purpose
To improve the soil medium for plant establishment and maintenance.

When Applicable
To improve the soil medium for plant establishment and maintenance.

Water Quality Enhancement
Improves the soil medium for plant establishment and maintenance.

On exposed soils that have the potential for causing off-site environmental damage.

- Methods and Materials**
1. **Site Preparation**
Grades as needed and feasible to permit the use of conventional equipment for seedbed preparation, seeding, mulch application, and mulch erosion. All grading shall be done in accordance with Standards for Land Grading, pp. 10-14.
 2. **Seed Selection**
A. Select seed mixtures as recommended in Table 2-1.
 3. **Seeding**
A. Broadcast seed uniformly by hand, machine, or by air.
 4. **Mulch**
A. Apply mulch as recommended in Table 2-1.
 5. **Water Management**
A. Install erosion control practices or facilities such as diversion berms, silt fences, sediment basins, sediment basins, and sediment basins.
 6. **Work Area Protection**
A. Work area protection shall be installed on all areas of exposed soil.
 7. **Access**
A. Provide access to all areas of exposed soil.

SESC NOTES

1. THE OCEAN COUNTY SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED FORTY-FOUR (48) HOURS IN ADVANCE OF ANY LAND DISTURBANCE.
2. ALL WORK TO BE DONE IN ACCORDANCE WITH THE STATE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY.
3. EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCE, OR IN THEIR PROPER SEQUENCE, AND MAINTAINED UNTIL PERMANENT STABILIZATION IS ACHIEVED.
4. ANY CHANGES TO THE CERTIFIED EROSION AND SEDIMENT CONTROL PLANS WILL REQUIRE THE SUBMISSION OF REVISED SOIL EROSION AND SEDIMENT CONTROL PLANS TO THE DISTRICT. THE REVISED PLANS MUST MEET ALL CURRENT STATE SOIL EROSION AND SEDIMENT CONTROL STANDARDS, LINK TO 2014 STANDARDS.
5. N.J.S.A. 15:27-12.1, N.J.S.A. 15:27-12.2, N.J.S.A. 15:27-12.3, N.J.S.A. 15:27-12.4, N.J.S.A. 15:27-12.5, N.J.S.A. 15:27-12.6, N.J.S.A. 15:27-12.7, N.J.S.A. 15:27-12.8, N.J.S.A. 15:27-12.9, N.J.S.A. 15:27-12.10, N.J.S.A. 15:27-12.11, N.J.S.A. 15:27-12.12, N.J.S.A. 15:27-12.13, N.J.S.A. 15:27-12.14, N.J.S.A. 15:27-12.15, N.J.S.A. 15:27-12.16, N.J.S.A. 15:27-12.17, N.J.S.A. 15:27-12.18, N.J.S.A. 15:27-12.19, N.J.S.A. 15:27-12.20, N.J.S.A. 15:27-12.21, N.J.S.A. 15:27-12.22, N.J.S.A. 15:27-12.23, N.J.S.A. 15:27-12.24, N.J.S.A. 15:27-12.25, N.J.S.A. 15:27-12.26, N.J.S.A. 15:27-12.27, N.J.S.A. 15:27-12.28, N.J.S.A. 15:27-12.29, N.J.S.A. 15:27-12.30, N.J.S.A. 15:27-12.31, N.J.S.A. 15:27-12.32, N.J.S.A. 15:27-12.33, N.J.S.A. 15:27-12.34, N.J.S.A. 15:27-12.35, N.J.S.A. 15:27-12.36, N.J.S.A. 15:27-12.37, N.J.S.A. 15:27-12.38, N.J.S.A. 15:27-12.39, N.J.S.A. 15:27-12.40, N.J.S.A. 15:27-12.41, N.J.S.A. 15:27-12.42, N.J.S.A. 15:27-12.43, N.J.S.A. 15:27-12.44, N.J.S.A. 15:27-12.45, N.J.S.A. 15:27-12.46, N.J.S.A. 15:27-12.47, N.J.S.A. 15:27-12.48, N.J.S.A. 15:27-12.49, N.J.S.A. 15:27-12.50, N.J.S.A. 15:27-12.51, N.J.S.A. 15:27-12.52, N.J.S.A. 15:27-12.53, N.J.S.A. 15:27-12.54, N.J.S.A. 15:27-12.55, N.J.S.A. 15:27-12.56, N.J.S.A. 15:27-12.57, N.J.S.A. 15:27-12.58, N.J.S.A. 15:27-12.59, N.J.S.A. 15:27-12.60, N.J.S.A. 15:27-12.61, N.J.S.A. 15:27-12.62, N.J.S.A. 15:27-12.63, N.J.S.A. 15:27-12.64, N.J.S.A. 15:27-12.65, N.J.S.A. 15:27-12.66, N.J.S.A. 15:27-12.67, N.J.S.A. 15:27-12.68, N.J.S.A. 15:27-12.69, N.J.S.A. 15:27-12.70, N.J.S.A. 15:27-12.71, N.J.S.A. 15:27-12.72, N.J.S.A. 15:27-12.73, N.J.S.A. 15:27-12.74, N.J.S.A. 15:27-12.75, N.J.S.A. 15:27-12.76, N.J.S.A. 15:27-12.77, N.J.S.A. 15:27-12.78, N.J.S.A. 15:27-12.79, N.J.S.A. 15:27-12.80, N.J.S.A. 15:27-12.81, N.J.S.A. 15:27-12.82, N.J.S.A. 15:27-12.83, N.J.S.A. 15:27-12.84, N.J.S.A. 15:27-12.85, N.J.S.A. 15:27-12.86, N.J.S.A. 15:27-12.87, N.J.S.A. 15:27-12.88, N.J.S.A. 15:27-12.89, N.J.S.A. 15:27-12.90, N.J.S.A. 15:27-12.91, N.J.S.A. 15:27-12.92, N.J.S.A. 15:27-12.93, N.J.S.A. 15:27-12.94, N.J.S.A. 15:27-12.95, N.J.S.A. 15:27-12.96, N.J.S.A. 15:27-12.97, N.J.S.A. 15:27-12.98, N.J.S.A. 15:27-12.99, N.J.S.A. 15:27-13.00, N.J.S.A. 15:27-13.01, N.J.S.A. 15:27-13.02, N.J.S.A. 15:27-13.03, N.J.S.A. 15:27-13.04, N.J.S.A. 15:27-13.05, N.J.S.A. 15:27-13.06, N.J.S.A. 15:27-13.07, N.J.S.A. 15:27-13.08, N.J.S.A. 15:27-13.09, N.J.S.A. 15:27-13.10, N.J.S.A. 15:27-13.11, N.J.S.A. 15:27-13.12, N.J.S.A. 15:27-13.13, N.J.S.A. 15:27-13.14, N.J.S.A. 15:27-13.15, N.J.S.A. 15:27-13.16, N.J.S.A. 15:27-13.17, N.J.S.A. 15:27-13.18, N.J.S.A. 15:27-13.19, N.J.S.A. 15:27-13.20, N.J.S.A. 15:27-13.21, N.J.S.A. 15:27-13.22, N.J.S.A. 15:27-13.23, N.J.S.A. 15:27-13.24, N.J.S.A. 15:27-13.25, N.J.S.A. 15:27-13.26, N.J.S.A. 15:27-13.27, N.J.S.A. 15:27-13.28, N.J.S.A. 15:27-13.29, N.J.S.A. 15:27-13.30, N.J.S.A. 15:27-13.31, N.J.S.A. 15:27-13.32, N.J.S.A. 15:27-13.33, N.J.S.A. 15:27-13.34, N.J.S.A. 15:27-13.35, N.J.S.A. 15:27-13.36, N.J.S.A. 15:27-13.37, N.J.S.A. 15:27-13.38, N.J.S.A. 15:27-13.39, N.J.S.A. 15:27-13.40, N.J.S.A. 15:27-13.41, N.J.S.A. 15:27-13.42, N.J.S.A. 15:27-13.43, N.J.S.A. 15:27-13.44, N.J.S.A. 15:27-13.45, N.J.S.A. 15:27-13.46, N.J.S.A. 15:27-13.47, N.J.S.A. 15:27-13.48, N.J.S.A. 15:27-13.49, N.J.S.A. 15:27-13.50, N.J.S.A. 15:27-13.51, N.J.S.A. 15:27-13.52, N.J.S.A. 15:27-13.53, N.J.S.A. 15:27-13.54, N.J.S.A. 15:27-13.55, N.J.S.A. 15:27-13.56, N.J.S.A. 15:27-13.57, N.J.S.A. 15:27-13.58, N.J.S.A. 15:27-13.59, N.J.S.A. 15:27-13.60, N.J.S.A. 15:27-13.61, N.J.S.A. 15:27-13.62, N.J.S.A. 15:27-13.63, N.J.S.A. 15:27-13.64, N.J.S.A. 15:27-13.65, N.J.S.A. 15:27-13.66, N.J.S.A. 15:27-13.67, N.J.S.A. 15:27-13.68, N.J.S.A. 15:27-13.69, N.J.S.A. 15:27-13.70, N.J.S.A. 15:27-13.71, N.J.S.A. 15:27-13.72, N.J.S.A. 15:27-13.73, N.J.S.A. 15:27-13.74, N.J.S.A. 15:27-13.75, N.J.S.A. 15:27-13.76, N.J.S.A. 15:27-13.77, N.J.S.A. 15:27-13.78, N.J.S.A. 15:27-13.79, N.J.S.A. 15:27-13.80, N.J.S.A. 15:27-13.81, N.J.S.A. 15:27-13.82, N.J.S.A. 15:27-13.83, N.J.S.A. 15:27-13.84, N.J.S.A. 15:27-13.85, N.J.S.A. 15:27-13.86, N.J.S.A. 15:27-13.87, N.J.S.A. 15:27-13.88, N.J.S.A. 15:27-13.89, N.J.S.A. 15:27-13.90, N.J.S.A. 15:27-13.91, N.J.S.A. 15:27-13.92, N.J.S.A. 15:27-13.93, N.J.S.A. 15:27-13.94, N.J.S.A. 15:27-13.95, N.J.S.A. 15:27-13.96, N.J.S.A. 15:27-13.97, N.J.S.A. 15:27-13.98, N.J.S.A. 15:27-13.99, N.J.S.A. 15:27-14.00, N.J.S.A. 15:27-14.01, N.J.S.A. 15:27-14.02, N.J.S.A. 15:27-14.03, N.J.S.A. 15:27-14.04, N.J.S.A. 15:27-14.05, N.J.S.A. 15:27-14.06, N.J.S.A. 15:27-14.07, N.J.S.A. 15:27-14.08, N.J.S.A. 15:27-14.09, N.J.S.A. 15:27-14.10, N.J.S.A. 15:27-14.11, N.J.S.A. 15:27-14.12, N.J.S.A. 15:27-14.13, N.J.S.A. 15:27-14.14, N.J.S.A. 15:27-14.15, N.J.S.A. 15:27-14.16, N.J.S.A. 15:27-14.17, N.J.S.A. 15:27-14.18, N.J.S.A. 15:27-14.19, N.J.S.A. 15:27-14.20, N.J.S.A. 15:27-14.21, N.J.S.A. 15:27-14.22, N.J.S.A. 15:27-14.23, N.J.S.A. 15:27-14.24, N.J.S.A. 15:27-14.25, N.J.S.A. 15:27-14.26, N.J.S.A. 15:27-14.27, N.J.S.A. 15:27-14.28, N.J.S.A. 15:27-14.29, N.J.S.A. 15:27-14.30, N.J.S.A. 15:27-14.31, N.J.S.A. 15:27-14.32, N.J.S.A. 15:27-14.33, N.J.S.A. 15:27-14.34, N.J.S.A. 15:27-14.35, N.J.S.A. 15:27-14.36, N.J.S.A. 15:27-14.37, N.J.S.A. 15:27-14.38, N.J.S.A. 15:27-14.39, N.J.S.A. 15:27-14.40, N.J.S.A. 15:27-14.41, N.J.S.A. 15:27-14.42, N.J.S.A. 15:27-14.43, N.J.S.A. 15:27-14.44, N.J.S.A. 15:27-14.45, N.J.S.A. 15:27-14.46, N.J.S.A. 15:27-14.47, N.J.S.A. 15:27-14.48, N.J.S.A. 15:27-14.49, N.J.S.A. 15:27-14.50, N.J.S.A. 15:27-14.51, N.J.S.A. 15:27-14.52, N.J.S.A. 15:27-14.53, N.J.S.A. 15:27-14.54, N.J.S.A. 15:27-14.55, N.J.S.A. 15:27-14.56, N.J.S.A. 15:27-14.57, N.J.S.A. 15:27-14.58, N.J.S.A. 15:27-14.59, N.J.S.A. 15:27-14.60, N.J.S.A. 15:27-14.61, N.J.S.A. 15:27-14.62, N.J.S.A. 15:27-14.63, N.J.S.A. 15:27-14.64, N.J.S.A. 15:27-14.65, N.J.S.A. 15:27-14.66, N.J.S.A. 15:27-14.67, N.J.S.A. 15:27-14.68, N.J.S.A. 15:27-14.69, N.J.S.A. 15:27-14.70, N.J.S.A. 15:27-14.71, N.J.S.A. 15:27-14.72, N.J.S.A. 15:27-14.73, N.J.S.A. 15:27-14.74, N.J.S.A. 15:27-14.75, N.J.S.A. 15:27-14.76, N.J.S.A. 15:27-14.77, N.J.S.A. 15:27-14.78, N.J.S.A. 15:27-14.79, N.J.S.A. 15:27-14.80, N.J.S.A. 15:27-14.81, N.J.S.A. 15:27-14.82, N.J.S.A. 15:27-14.83, N.J.S.A. 15:27-14.84, N.J.S.A. 15:27-14.85, N.J.S.A. 15:27-14.86, N.J.S.A. 15:27-14.87, N.J.S.A. 15:27-14.88, N.J.S.A. 15:27-14.89, N.J.S.A. 15:27-14.90, N.J.S.A. 15:27-14.91, N.J.S.A. 15:27-14.92, N.J.S.A. 15:27-14.93, N.J.S.A. 15:27-14.94, N.J.S.A. 15:27-14.95, N.J.S.A. 15:27-14.96, N.J.S.A. 15:27-14.97, N.J.S.A. 15:27-14.98, N.J.S.A. 15:27-14.99, N.J.S.A. 15:27-15.00, N.J.S.A. 15:27-15.01, N.J.S.A. 15:27-15.02, N.J.S.A. 15:27-15.03, N.J.S.A. 15:27-15.04, N.J.S.A. 15:27-15.05, N.J.S.A. 15:27-15.06, N.J.S.A. 15:27-15.07, N.J.S.A. 15:27-15.08, N.J.S.A. 15:27-15.09, N.J.S.A. 15:27-15.10, N.J.S.A. 15:27-15.11, N.J.S.A. 15:27-15.12, N.J.S.A. 15:27-15.13, N.J.S.A. 15:27-15.14, N.J.S.A. 15:27-15.15, N.J.S.A. 15:27-15.16, N.J.S.A. 15:27-15.17, N.J.S.A. 15:27-15.18, N.J.S.A. 15:27-15.19, N.J.S.A. 15:27-15.20, N.J.S.A. 15:27-15.21, N.J.S.A. 15:27-15.22, N.J.S.A. 15:27-15.23, N.J.S.A. 15:27-15.24, N.J.S.A. 15:27-15.25, N.J.S.A. 15:27-15.26, N.J.S.A. 15:27-15.27, N.J.S.A. 15:27-15.28, N.J.S.A. 15:27-15.29, N.J.S.A. 15:27-15.30, N.J.S.A. 15:27-15.31, N.J.S.A. 15:27-15.32, N.J.S.A. 15:27-15.33, N.J.S.A. 15:27-15.34, N.J.S.A. 15:27-15.35, N.J.S.A. 15:27-15.36, N.J.S.A. 15:27-15.37, N.J.S.A. 15:27-15.38, N.J.S.A. 15:27-15.39, N.J.S.A. 15:27-15.40, N.J.S.A. 15:27-15.41, N.J.S.A. 15:27-15.42, N.J.S.A. 15:27-15.43, N.J.S.A. 15:27-15.44, N.J.S.A. 15:27-15.45, N.J.S.A. 15:27-15.46, N.J.S.A. 15:27-15.47, N.J.S.A. 15:27-15.48, N.J.S.A. 15:27-15.49, N.J.S.A. 15:27-15.50, N.J.S.A. 15:27-15.51, N.J.S.A. 15:27-15.52, N.J.S.A. 15:27-15.53, N.J.S.A. 15:27-15.54, N.J.S.A. 15:27-15.55, N.J.S.A. 15:27-15.56, N.J.S.A. 15:27-15.57, N.J.S.A. 15:27-15.58, N.J.S.A. 15:27-15.59, N.J.S.A. 15:27-15.60, N.J.S.A. 15:27-15.61, N.J.S.A. 15:27-15.62, N.J.S.A. 15:27-15.63, N.J.S.A. 15:27-15.64, N.J.S.A. 15:27-15.65, N.J.S.A. 15:27-15.66, N.J.S.A. 15:27-15.67, N.J.S.A. 15:27-15.68, N.J.S.A. 15:27-15.69, N.J.S.A. 15:27-15.70, N.J.S.A. 15:27-15.71, N.J.S.A. 15:27-15.72, N.J.S.A. 15:27-15.73, N.J.S.A. 15:27-15.74, N.J.S.A. 15:27-15.75, N.J.S.A. 15:27-15.76, N.J.S.A. 15:27-15.77, N.J.S.A. 15:27-15.78, N.J.S.A. 15:27-15.79, N.J.S.A. 15:27-15.80, N.J.S.A. 15:27-15.81, N.J.S.A. 15:27-15.82, N.J.S.A. 15:27-15.83, N.J.S.A. 15:27-15.84, N.J.S.A. 15:27-15.85, N.J.S.A. 15:27-15.86, N.J.S.A. 15:27-15.87, N.J.S.A. 15:27-15.88, N.J.S.A. 15:27-15.89, N.J.S.A. 15:27-15.90, N.J.S.A. 15:27-15.91, N.J.S.A. 15:27-15.92, N.J.S.A. 15:27-15.93, N.J.S.A. 15:27-15.94, N.J.S.A. 15:27-15.95, N.J.S.A. 15:27-15.96, N.J.S.A. 15:27-15.97, N.J.S.A. 15:27-15.98, N.J.S.A. 15:27-15.99, N.J.S.A. 15:27-16.00, N.J.S.A. 15:27-16.01, N.J.S.A. 15:27-16.02, N.J.S.A. 15:27-16.03, N.J.S.A. 15:27-16.04, N.J.S.A. 15:27-16.05, N.J.S.A. 15:27-16.06, N.J.S.A. 15:27-16.07, N.J.S.A. 15:27-16.08, N.J.S.A. 15:27-16.09, N.J.S.A. 15:27-16.10, N.J.S.A. 15:27-16.11, N.J.S.A. 15:27-16.12, N.J.S.A. 15:27-16.13, N.J.S.A. 15:27-16.14, N.J.S.A. 15:27-16.15, N.J.S.A. 15:27-16.16, N.J.S.A. 15:27-16.17, N.J.S.A. 15:27-16.18, N.J.S.A. 15:27-16.19, N.J.S.A. 15:27-16.20, N.J.S.A. 15:27-16.21, N.J.S.A. 15:27-16.22, N.J.S.A. 15:27-16.23, N.J.S.A. 15:27-16.24, N.J.S.A. 15:27-16.25, N.J.S.A. 15:27-16.26, N.J.S.A. 15:27-16.27, N.J.S.A. 15:27-16.28, N.J.S.A. 15:27-16.29, N.J.S.A. 15:27-16.30, N.J.S.A. 15:27-16.31, N.J.S.A. 15:27-16.32, N.J.S.A. 15:27-16.33, N.J.S.A. 15:27-16.34, N.J.S.A. 15:27-16.35, N.J.S.A. 15:27-16.36, N.J.S.A. 15:27-16.37, N.J.S.A. 15:27-16.38, N.J.S.A. 15:27-16.39, N.J.S.A. 15:27-16.40, N.J.S.A. 15:27-16.41, N.J.S.A. 15:27-16.42, N.J.S.A. 15:27-16.43, N.J.S.A. 15:27-16.44, N.J.S.A. 15:27-16.45, N.J.S.A. 15:27-16.46, N.J.S.A. 15:27-16.47, N.J.S.A. 15:27-16.48, N.J.S.A. 15:27-16.49, N.J.S.A. 15:27-16.50, N.J.S.A. 15:27-16.51, N.J.S.A. 15:27-16.52, N.J.S.A. 15:27-16.53, N.J.S.A. 15:27-16.54, N.J.S.A. 15:27-16.55, N.J.S.A. 15:27-16.56, N.J.S.A. 15:27-16.57, N.J.S.A. 15:27-16.58, N.J.S.A. 15:27-16.59, N.J.S.A. 15:27-16.60, N.J.S.A. 15:27-16.61, N.J.S.A. 15:27-16.62, N.J.S.A. 15:27-16.63, N.J.S.A. 15:27-16.64, N.J.S.A. 15:27-16.65, N.J.S.A. 15:27-16.66, N.J.S.A. 15:27-16.67, N.J.S.A. 15:27-16.68, N.J.S.A. 15:27-16.69, N.J.S.A. 15:27-16.70, N.J.S.A. 15:27-16.71, N.J.S.A. 15:27-16.72, N.J.S.A. 15:27-16.73, N.J.S.A. 15:27-16.74, N.J.S.A. 15:27-16.75, N.J.S.A. 15:27-16.76, N.J.S.A. 15:27-16.77, N.J.S.A. 15:27-16.78, N.J.S.A. 15:27-16.79, N.J.S.A. 15:27-16.80, N.J.S.A. 15:27-16.81, N.J.S.A. 15:27-16.82, N.J.S.A. 15:27-16.83, N.J.S.A. 15:27-16.84, N.J.S.A. 15:27-16.85, N.J.S.A. 15:27-16.86, N.J.S.A. 15:27-16.87, N.J.S.A. 15:27-16.88, N.J.S.A. 15:27-16.89, N.J.S.A. 15:27-16.90, N.J.S.A. 15:27-16.91, N.J.S.A. 15:27-16.92, N.J.S.A. 15:27-16.93, N.J.S.A. 15:27-16.94, N.J.S.A. 15:27-16.95, N.J.S.A. 15:27-16.96, N.J.S.A. 15:27-16.97, N.J.S.A. 15:27-16.98, N.J.S.A. 15:27-16.99, N.J.S.A. 15:27-17.00, N.J.S.A. 15:27-17.01, N.J.S.A. 15:27-17.02, N.J.S.A. 15:27-17.03, N.J.S.A. 15:27-17.04, N.J.S.A. 15:27-17.05, N.J.S.A. 15:27-17.06, N.J.S.A. 15:27-17.07, N.J.S.A. 15:27-17.08, N.J.S.A. 15:27-17.09, N.J.S.A. 15:27-17.10, N.J.S.A. 15:27-17.11, N.J.S.A.