



DEPARTMENT OF THE ARMY  
US ARMY CORPS OF ENGINEERS  
NEW ENGLAND DISTRICT  
696 VIRGINIA ROAD  
CONCORD MA 01742-2751

September 4, 2014

Regulatory Division  
CENAE-R  
Permit Number: NAE-2012-2724

Aileen Kenney, Director of Permitting  
Deepwater Wind Block Island Transmission System, LLC  
Deepwater Wind, LLC Office  
56 Exchange Terrace Street  
Providence, Rhode Island 02903-1772

Dear Ms. Kenney:

Attached are two copies of a Department of the Army permit authorizing your **Block Island Transmission System** project. **Please sign both copies of the permit and return one signed copy to this office at the address above.** A fee of \$100.00 is required. Please enclose a check made payable to "FAO New England District", and return it with the signed permit copy. Please ensure your address and social security number, or tax identification number for businesses, are on the check. The authorized work cannot start until we receive a complete, signed copy of the permit.

You are required to complete and return the attached forms to this office:

1. Work Start Notification Form at least two weeks before the anticipated work start date.
2. Compliance Certification Form within one month following the completion of the authorized work.

This permit is a limited authorization containing a specific set of conditions. Please read the permit thoroughly to familiarize yourself with those conditions, **including any conditions contained on the attached state water quality certification.** If a contractor does the work for you, both you and the contractor are responsible for ensuring that the work is done in compliance with the permit's terms and conditions, as any violations could result in civil or criminal penalties.

The Corps of Engineers has consulted with the National Marine Fisheries Service (NMFS) regarding the effects of your project on Essential Fish Habitat (EFH) designated under the Magnuson-Stevens Fishery Conservation and Management Act. **To minimize impacts to the aquatic environment, conservation recommendations from several agencies are included as special conditions attached to this permit**

This letter contains an approved jurisdictional determination for your subject site and a proffered permit for your proposed project. If you object to either this determination or decision, you may request an administrative appeal under Corps regulations at 33 CFR 331. A combined Notification of Administrative Appeal Options and Process (NAP) and Request for Appeal (RFA) form, and flow chart explaining the appeals process and your options, are attached to this

letter. If you desire to appeal this determination, you must submit a completed RFA form along with any supporting or clarifying information to Michael G. Vissichelli; Administrative Appeals Review Officer; North Atlantic Division, Corps of Engineers; North Atlantic Fort Hamilton Military Community, Bldg. 301; General Lee Avenue; Brooklyn, NY 11252-6700. Contact info: (347) 370-4663 or michael.g.vissichelli@usace.army.mil.

In order for an RFA to be accepted by the Corps, the Corps must determine that it is complete, that it meets the criteria for appeal under 33 CFR 331.5, and that it has been received by the Division Office within 60 days of the date of the NAP.

You may not appeal conditions contained in the State water quality certification or the CZM consistency determination under this program as they are automatically included in the Federal permit. Also note that the Department of the Army permit process does not supersede any other agency's jurisdiction.

We continually strive to improve our customer service. In order for us to better serve you, we would appreciate your completing our Customer Service Survey located at [http://corpsmapu.usace.army.mil/cm\\_apex/f?p=regulatory\\_survey](http://corpsmapu.usace.army.mil/cm_apex/f?p=regulatory_survey).

If you have any questions regarding this correspondence, please contact Michael Elliott at (978) 318-8131, (800) 343-4789, or use (800) 363-4367 within Massachusetts.

Sincerely,



Robert J. DeSista  
Acting Chief, Regulatory Division

Enclosures

Copy Furnished:

Jennifer Daniels  
Director of Offshore Energy  
Tetra Tech  
160 Federal Street, 3rd Floor  
Boston, MA 02110

## NOTIFICATION OF ADMINISTRATIVE APPEAL OPTIONS AND PROCESS AND REQUEST FOR APPEAL

Applicant: Deepwater Wind Block Island Transmission System, LLC	File Number: CENAE-2012-1274	Date: 4 Sept 2014
Attached is:		See Section below
<input checked="" type="checkbox"/>	INITIAL PROFFERED PERMIT (Standard Permit or Letter of permission)	A
<input type="checkbox"/>	PROFFERED PERMIT (Standard Permit or Letter of permission)	B
<input type="checkbox"/>	PERMIT DENIAL	C
<input checked="" type="checkbox"/>	APPROVED JURISDICTIONAL DETERMINATION	D
<input type="checkbox"/>	PRELIMINARY JURISDICTIONAL DETERMINATION	E

**SECTION I - The following identifies your rights and options regarding an administrative appeal of the above decision. Additional information may be found at <http://usace.army.mil/inet/functions/cw/cecwo/reg> or Corps regulations at 33 CFR Part 331.**

**A: INITIAL PROFFERED PERMIT: You may accept or object to the permit.**

- **ACCEPT:** If you received a Standard Permit, you may sign the permit document and return it to the New England District Engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations (JD) associated with the permit.
- **OBJECT:** If you object to the permit (Standard or LOP) because of certain terms and conditions therein, you may request that the permit be modified accordingly. You must complete Section II of this form and return the form to the New England District Engineer. Your objections must be received by the New England District Engineer within 60 days of the date of this notice, or you will forfeit your right to appeal the permit in the future. Upon receipt of your letter, the New England District Engineer will evaluate your objections and may: (a) modify the permit to address all of your concerns, (b) modify the permit to address some of your objections, or (c) not modify the permit having determined that the permit should be issued as previously written. After evaluating your objections, the New England District Engineer will send you a proffered permit for your reconsideration, as indicated in Section B below.

**B: PROFFERED PERMIT: You may accept or appeal the permit**

- **ACCEPT:** If you received a Standard Permit, you may sign the permit document and return it to the New England District Engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- **APPEAL:** If you choose to decline the proffered permit (Standard or LOP) because of certain terms and conditions therein, you may appeal the declined permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the North Atlantic Division Engineer, ATTN: CENAD-PD-PSD-O, Fort Hamilton Military Community, Building 301, General Lee Avenue, Brooklyn, NY 11252-6700. This form must be received by the North Atlantic Division Engineer within 60 days of the date of this notice with a copy furnished to the New England District Engineer.

**C: PERMIT DENIAL:** You may appeal the denial of a permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the North Atlantic Division Engineer, ATTN: CENAD-PD-PSD-O, Fort Hamilton Military Community, Building 301, General Lee Avenue, Brooklyn, NY 11252-6700. This form must be received by the North Atlantic Division Engineer within 60 days of the date of this notice with a copy furnished to the New England District Engineer.

**D: APPROVED JURISDICTIONAL DETERMINATION: You may accept or appeal the approved JD or provide new information.**

- **ACCEPT:** You do not need to notify the Corps to accept an approved JD. Failure to notify the Corps within 60 days of the date of this notice, means that you accept the approved JD in its entirety, and waive all rights to appeal the approved JD.
- **APPEAL:** If you disagree with the approved JD, you may appeal the approved JD under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the North Atlantic Division Engineer, ATTN: CENAD-PD-PSD-O, Fort Hamilton Military Community, Building 301, General Lee Avenue, Brooklyn, NY 11252-6700. This form must be received by the North Atlantic Division Engineer within 60 days of the date of this notice with a copy furnished to the New England District Engineer.

E: PRELIMINARY JURISDICTIONAL DETERMINATION: You do not need to respond to the Corps regarding the preliminary JD. The Preliminary JD is not appealable. If you wish, you may request an approved JD (which may be appealed), by contacting the Corps district for further instruction. Also you may provide new information for further consideration by the Corps to reevaluate the JD.

**SECTION II - REQUEST FOR APPEAL or OBJECTIONS TO AN INITIAL PROFFERED PERMIT**

REASONS FOR APPEAL OR OBJECTIONS: (Describe your reasons for appealing the decision or your objections to an initial proffered permit in clear concise statements. You may attach additional information to this form to clarify where your reasons or objections are addressed in the administrative record.)

ADDITIONAL INFORMATION: The appeal is limited to a review of the administrative record, the Corps memorandum for the record of the appeal conference or meeting, and any supplemental information that the review officer has determined is needed to clarify the administrative record. Neither the appellant nor the Corps may add new information or analyses to the record. However, you may provide additional information to clarify the location of information that is already in the administrative record.

**POINT OF CONTACT FOR QUESTIONS OR INFORMATION:**

If you have questions regarding this decision and/or the appeal process you may contact:

Ruth M. Ladd  
CENAE-R  
U.S. Army Corps of Engineers, New England District  
696 Virginia Road  
Concord, MA 01742-2751  
Telephone: (978) 318-8818  
Email: ruth.m.ladd@usace.army.mil

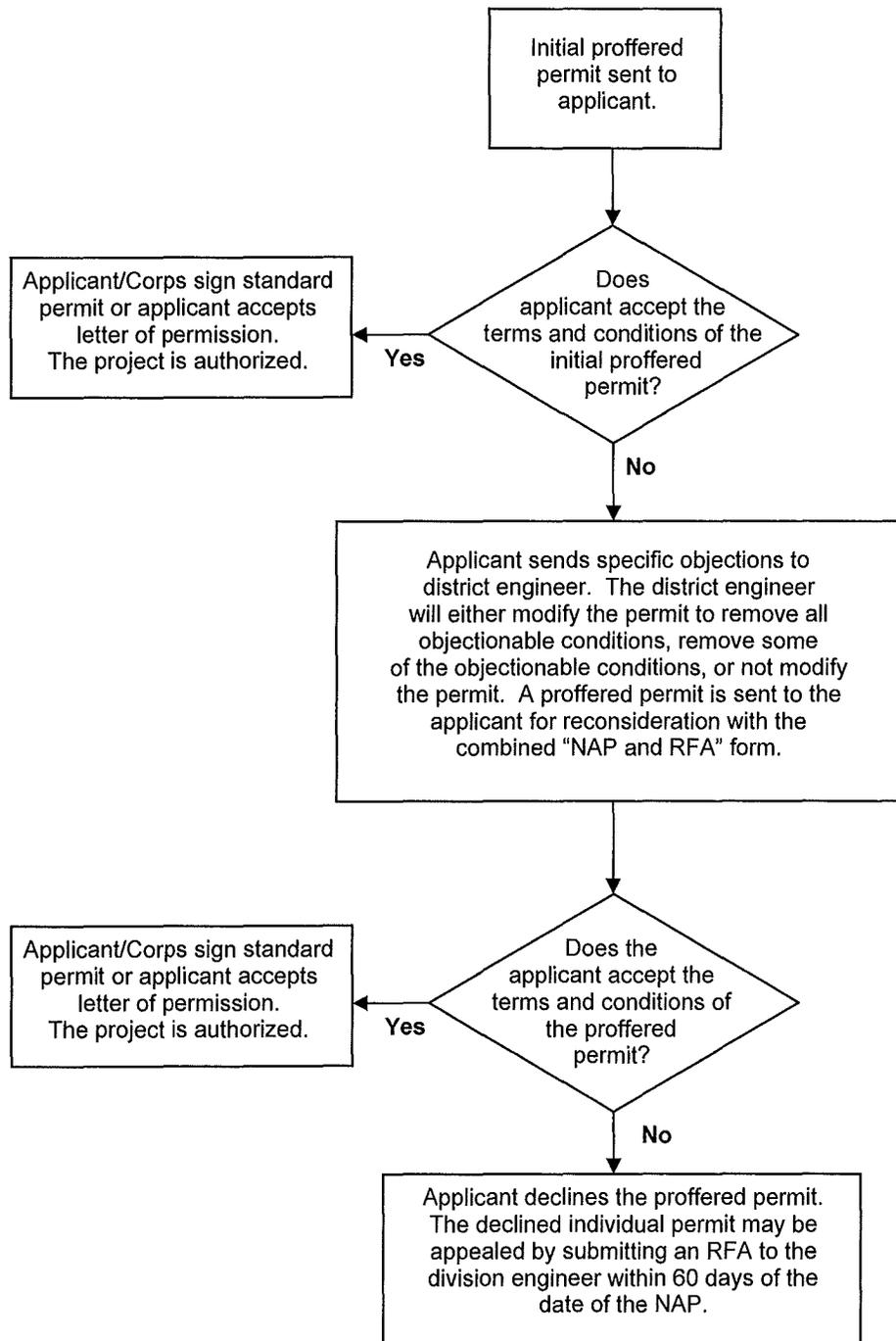
If you only have questions regarding the appeal process you may also contact:

Mr. Michael G. Vissichelli  
Administrative Appeals Review Officer  
North Atlantic Division, Corps of Engineers Fort Hamilton  
Military Community Bldg. 301, General Lee Avenue Brooklyn,  
NY 11252-6700  
Telephone: (347) 370-4663  
Email: michael.g.vissichelli@usace.army.mil

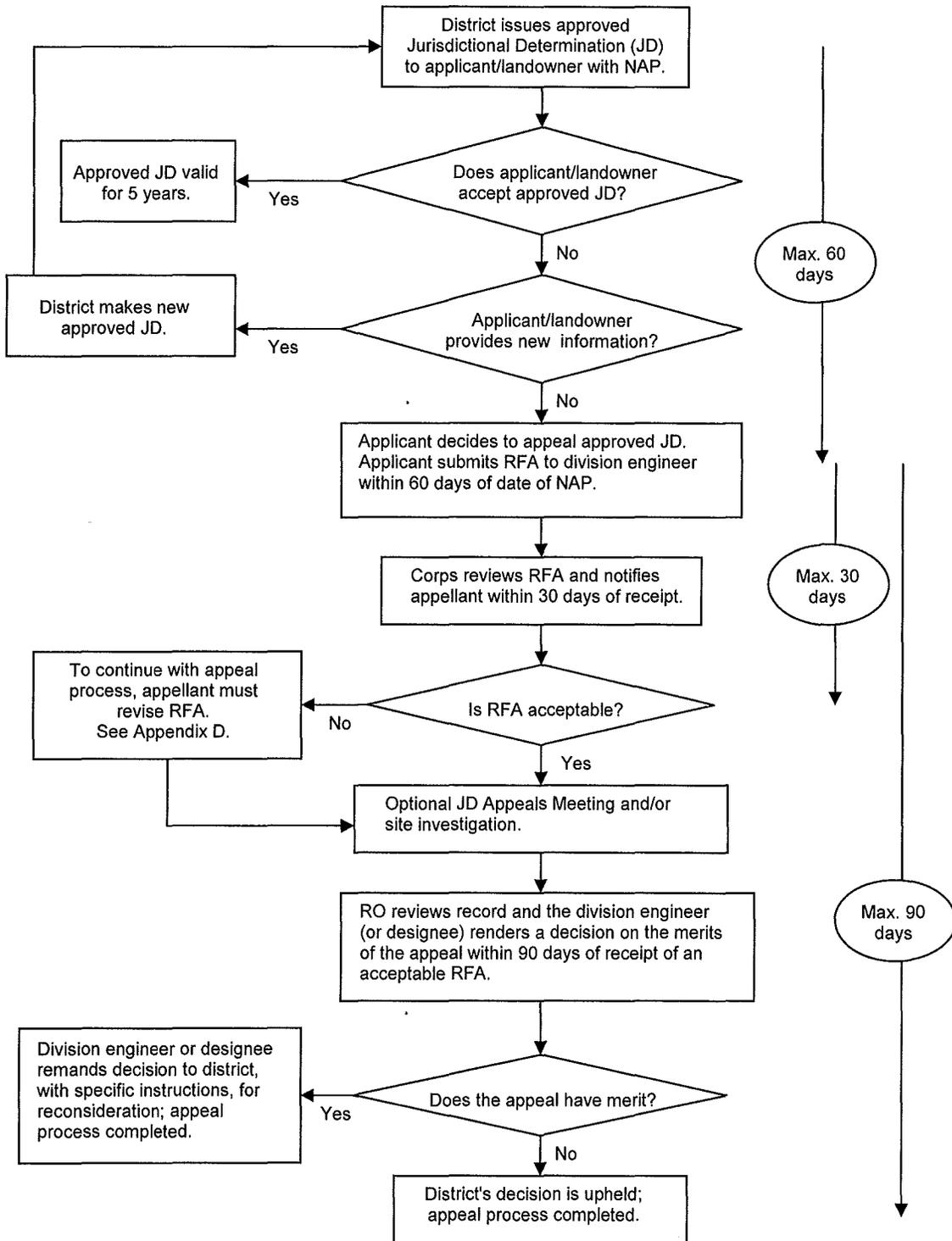
RIGHT OF ENTRY: Your signature below grants the right of entry to Corps of Engineers personnel, and any government consultants, to conduct investigations of the project site during the course of the appeal process. You will be provided a 15 day notice of any site investigation, and will have the opportunity to participate in all site investigations.

Signature of appellant or agent.	Date:	Telephone number:
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## Applicant Options with Initial/Proffered Permit



## Administrative Appeal Process for Approved Jurisdictional Determination



**Appendix C**

DEPARTMENT OF THE ARMY PERMIT

Permittee Deepwater Wind Block Island Transmission, LLC

Permit No. NAE-2012-2724 (see also associated Permit No. NAE-2009-789)

Issuing Office New England District

NOTE: The term "you" and its derivatives, as used in this permit, means the permittee or any future transferee. The term "this office" refers to the appropriate district or division office of the Corps of Engineers having jurisdiction over the permitted activity or the appropriate official of that office acting under the authority of the commanding officer.

You are authorized to perform work in accordance with the terms and conditions specified below.

Project Description: To construct and maintain the Block Island Transmission System (BITS). In connection with the BITS, Deepwater Wind Block Island, LLC will develop the Block Island Wind Farm (BIWF), a 30-MW offshore wind farm located approximately 3 miles southeast of Block Island, Rhode Island. The BIWF and BITS were subject to joint review under the National Environmental Policy Act (NEPA). The BIWF has been authorized under a separate permit (see Permit No. NAE-2009-789). The authorized work includes:

- 1.) Install 20 linear miles of submerged transmission cable including the placement of up to 1.7 acres of fill for cable armoring.

(Project Description continued on Page 4)

Project Location:

BITS cable located in Rhode Island Sound (Atlantic Ocean) between Crescent Beach on Block Island and Scarborough State Beach in Narragansett, Rhode Island.

Permit Conditions:

General Conditions:

DECEMBER 31, 2019

1. The time limit for completing the work authorized ends on \_\_\_\_\_ . If you find that you need more time to complete the authorized activity, submit your request for a time extension to this office for consideration at least one month before the above date is reached.

2. You must maintain the activity authorized by this permit in good condition and in conformance with the terms and conditions of this permit. You are not relieved of this requirement if you abandon the permitted activity, although you may make a good faith transfer to a third party in compliance with General Condition 4 below. Should you wish to cease to maintain the authorized activity or should you desire to abandon it without a good faith transfer, you must obtain a modification of this permit from this office, which may require restoration of the area.

3. If you discover any previously unknown historic or archeological remains while accomplishing the activity authorized by this permit, you must immediately notify this office of what you have found. We will initiate the Federal and state coordination required to determine if the remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.

4. If you sell the property associated with this permit, you must obtain the signature of the new owner in the space provided and forward a copy of the permit to this office to validate the transfer of this authorization.

5. If a conditioned water quality certification has been issued for your project, you must comply with the conditions specified in the certification as special conditions to this permit. For your convenience, a copy of the certification is attached if it contains such conditions.

6. You must allow representatives from this office to inspect the authorized activity at any time deemed necessary to ensure that it is being or has been accomplished in accordance with the terms and conditions of your permit.

Special Conditions:

(Special Conditions start on Page 5)

Further Information:

1. Congressional Authorities: You have been authorized to undertake the activity described above pursuant to:

Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403).

Section 404 of the Clean Water Act (33 U.S.C. 1344).

Section 103 of the Marine Protection, Research and Sanctuaries Act of 1972 (33 U.S.C. 1413).

2. Limits of this authorization.

a. This permit does not obviate the need to obtain other Federal, state, or local authorizations required by law.

b. This permit does not grant any property rights or exclusive privileges.

c. This permit does not authorize any injury to the property or rights of others.

d. This permit does not authorize interference with any existing or proposed Federal project.

3. Limits of Federal Liability. In issuing this permit, the Federal Government does not assume any liability for the following:

a. Damages to the permitted project or uses thereof as a result of other permitted or unpermitted activities or from natural causes.

b. Damages to the permitted project or uses thereof as a result of current or future activities undertaken by or on behalf of the United States in the public interest.

c. Damages to persons, property, or to other permitted or unpermitted activities or structures caused by the activity authorized by this permit.

d. Design or construction deficiencies associated with the permitted work.

e. Damage claims associated with any future modification, suspension, or revocation of this permit.

4. **Reliance on Applicant's Data:** The determination of this office that issuance of this permit is not contrary to the public interest was made in reliance on the information you provided.

5. **Reevaluation of Permit Decision.** This office may reevaluate its decision on this permit at any time the circumstances warrant. Circumstances that could require a reevaluation include, but are not limited to, the following:

a. You fail to comply with the terms and conditions of this permit.

b. The information provided by you in support of your permit application proves to have been false, incomplete, or inaccurate (See 4 above).

c. Significant new information surfaces which this office did not consider in reaching the original public interest decision.

Such a reevaluation may result in a determination that it is appropriate to use the suspension, modification, and revocation procedures contained in 33 CFR 325.7 or enforcement procedures such as those contained in 33 CFR 326.4 and 326.5. The referenced enforcement procedures provide for the issuance of an administrative order requiring you to comply with the terms and conditions of your permit and for the initiation of legal action where appropriate. You will be required to pay for any corrective measures ordered by this office, and if you fail to comply with such directive, this office may in certain situations (such as those specified in 33 CFR 209.170) accomplish the corrective measures by contract or otherwise and bill you for the cost.

6. **Extensions.** General condition 1 establishes a time limit for the completion of the activity authorized by this permit. Unless there are circumstances requiring either a prompt completion of the authorized activity or a reevaluation of the public interest decision, the Corps will normally give favorable consideration to a request for an extension of this time limit.

Your signature below, as permittee, indicates that you accept and agree to comply with the terms and conditions of this permit.

Aileen Kenney, Aileen Kenney 9/4/14  
(PERMITTEE) (DATE)  
V.P. of Permitting and Environ. Affairs

This permit becomes effective when the Federal official, designated to act for the Secretary of the Army, has signed below.

Robert J. DeSista 9/4/2014  
Robert J. DeSista (DATE)  
Acting Chief, Regulatory Division

When the structures or work authorized by this permit are still in existence at the time the property is transferred, the terms and conditions of this permit will continue to be binding on the new owner(s) of the property. To validate the transfer of this permit and the associated liabilities associated with compliance with its terms and conditions, have the transferee sign and date below.

\_\_\_\_\_  
(TRANSFEE) (DATE)

## **Project Description (continued from Page 1)**

- 2.) BITS cable aerial crossing of approximately 45 linear feet over Trims Pond in the Town of New Shoreham (Block Island).
- 3.) Excavate a temporary trench between mean high and mean low water for the BITS cable landfall at Crescent Beach on Block Island. Temporary impact is approximately 0.01 acre.
- 4.) 0.02 acres temporary impact from sediment excavation and refill and sheet piles for a temporary offshore cofferdam associated with the BITS landfall on the Rhode Island mainland.

The work is described on the enclosed plans:

- 1) Plan set entitled "34.5kV BITS Underground Route" originally submitted on May 23, 2012 and as updated in submittals dated September 26, 2013, and January 31, 2014.
- 2) Plan set entitled "The Scarborough Beach Alternative" dated November 4, 2013.

## Special Conditions

1. The special condition requirements contained in the Section 401 State Water Quality Certification issued by RIDEM for the BITS project are made a part of the Corps permit.
2. All BITS work is to be completed in accordance with the Permittee's September 2012 applications and subsequent modifications, and their Environmental Report and subsequent modifications.
3. The Permittee shall ensure that a copy of this permit is at the work site whenever work is being performed and that all personnel performing work at the site of the work authorized by this permit are fully aware of the terms and conditions of the permit. This permit, including its drawings and any appendices and other attachments, shall be made a part of any and all contracts and subcontracts for work which affects areas of Corps of Engineers jurisdiction at the site of the work authorized by this permit. This shall be done by including the entire permit in the specifications for work. If the permit is issued after the construction specifications, but before receipt of bids or quotes, the entire permit shall be included as an addendum to the specifications. If the permit is issued after receipt of bids or quotes, the entire permit shall be included in the contract or sub-contract as a change order. The term "entire permit" includes permit amendments. Although the Permittee may assign various aspects of the work to different contractors or subcontractors, all contractors and sub-contractors shall be obligated by contract to comply with all environmental protection provisions of the entire permit, and no contract or subcontract shall require or allow unauthorized work in areas of Corps jurisdiction.
4. The Permittee shall complete and return the enclosed Compliance Certification Form to the Corps within one month after the completion of the authorized work.
5. Adequate sedimentation and erosion control devices, such as geotextile silt fences or other devices capable of filtering sediments, shall be installed and properly maintained to minimize impacts on wetlands and/or waters during construction. These devices must be removed after soils disturbed by construction activities are stabilized by revegetation or other means. The sediment collected by these devices must be periodically removed and placed in uplands, in a manner that will prevent its erosion and transport to wetlands and/or waters.
6. All areas of wetlands and/or waters, which are disturbed during construction, except those authorized herein for permanent impact, shall be restored to their approximate original elevation (but not higher) and condition by careful protection, and/or removal and replacement, of existing soil and vegetation. In addition, if upland clearing, grubbing, or other construction activity results in, or may result in, soil erosion with transport and deposition into a wetland or waterway, devices such as geotextile silt fences, sediment trenches, etc., shall be installed and properly maintained to minimize such impacts during construction. These devices must be removed upon completion of work and stabilization of disturbed areas. The sediment collected by these devices must also be removed and placed upland, in a manner that will prevent its later erosion and transport to a waterway or wetland.
7. Except where stated otherwise, reports, drawings, correspondence and any other submittals required by this permit shall be marked with the words "Permit No. 2012-2724" and shall be submitted to: PATS Branch - Regulatory Division, Corps of Engineers, New

England District, 696 Virginia Road, Concord, MA 01742-2751. Documents which are not marked and addressed in this manner may not reach their intended destination and do not comply with the requirements of this permit. Requirements for immediate notification to the Corps shall be done by telephone to (978) 318-8338.

**Essential Fish Habitat:**

8. The Permittee shall provide their vessel operators with maps of sensitive hard bottom habitat in the Project Area, as well as a proposed anchoring plan that minimizes impacts on the hard bottom habitat to the greatest extent practicable. These plans shall be provided for all anchoring activity, including construction, maintenance, and decommissioning.
9. Prior to the start of construction, a monitoring plan shall be prepared to assess any hard bottom habitat impacts that cannot be avoided. The monitoring plan shall provide an assessment of impacts on the hard bottom habitat, as well as a plan for assessing recovery time for this sensitive habitat. The plan shall also include a means of recording observations of any increased coverage of invasive species in the impacted hard bottom area. The monitoring plan and subsequent reports shall be provided to the Corps, NMFS, and BOEM for review and comment.
10. Reports on the post-construction monitoring of cable installation shall be provided to the Corps, NMFS, and BOEM for review. Mitigation may be required if areas along the cable route do not recover or fill in naturally, as stated in the BIWF/BITS ER.
11. Noise mitigating measures shall be used during construction, such as soft-start procedures, to ensure fish species have the opportunity to evacuate the area prior to pile driving activity. A plan outlining noise mitigation procedures shall be provided to the Corps, NMFS and BOEM prior to construction. Resource agencies shall be notified within 24 hours if any evidence of a fish kill during construction activity is observed.
12. Monitoring for noise levels during construction and operation shall be conducted to verify the acoustic models and provide more accurate information on the area of impact. Noise monitoring reports shall be provided to the Corps, NMFS, and BOEM.
13. The Permittee shall provide vessel operators maps of sensitive hard bottom habitat in the project area of the BITS Scarborough Beach Alternative. Anchoring in complex and hard bottom habitats, classified as Type 3 (complex mixture of alternating bottom types including fine to coarse grained sediments and boulders) and Type 4 (hard, compact seabed including primarily gravel, cobbles, and boulders in a sand matrix habitat in the geophysical surveys, shall be avoided for all construction, maintenance, and decommissioning activities associated with the installation of the cable.
14. Side casting of material excavated from the offshore cofferdam shall be disposed of north and/or northeast of the cofferdam in sandy habitat, classified as Type 1 (fine grained sediments (mostly silt and fine sand) with possible isolated boulders). Material shall not be disposed of directly or adjacent to any hard bottom or complex habitat, classified as Type 3 or Type 4 in the geophysical surveys.

**Avian and Bat:**

15. DWBIT shall develop a plan for constructing a new nest platform and relocating an osprey nest in close proximity to the proposed Block Island Substation when the nest is inactive.

**Cultural Resources:**

16. DWBIT shall comply with the Memorandum of Agreement (MOA) executed in June, 2014 that was signed by the Army Corps of Engineers (Corps), Rhode Island State Historic Preservation Office (SHPO), The Bureau of Ocean Energy Management (BOEM), DWBIT, and the Narragansett Indian Tribal Historic Preservation Office (NITHPO).

**Marine Navigation:**

17. DWBIT shall ensure that cable routes are depicted on appropriate government produced and commercially available nautical charts.

18. DWBIT shall submit a detailed submarine cable system burial plan shall be submitted that depicts precise location and burial depths of the entire cable system. This plan shall be reviewed by the USCG and approved by the Corps of Engineers before construction of any component of the offshore renewable energy installation (OREI) begins.

That portion of the BITS submarine cable that is proposed within the southbound (outbound) lane of the traffic separation scheme may require USCG regulatory rulemaking such as a temporary safety zone or regulated navigation area. DWBIT will not be permitted to begin any cable-laying operations within this area until any USCG regulatory efforts are complete.

**Marine Mammals and Sea Turtles:**

19. **Exclusion and Monitoring Zones:** Exclusion and monitoring zones will be established around acoustically active project components (i.e., pile driving (vibratory) and dynamic position (DP) thruster use for cable-lay operations). These zones will be established to monitor for ESA-listed species of sea turtles and whales that may enter the project area and to adjust project operations accordingly to prevent exposure of these animals to potentially injurious levels of underwater noise. Exclusion and monitoring zones are not being established for Atlantic sturgeon because this species occurs only under the water surface and visual observers will not be able to detect the presence of Atlantic sturgeon in the project area and no remote sensing technology that could detect Atlantic sturgeon is feasible for deployment in the area.

- a. **Vibratory Pile Driving of Cofferdam** – Cofferdam installation and removal will produce sound levels of 180 dB<sub>RMS</sub> within 10 m from the source and thus, an exclusion zone will not be established. A 200-m radius monitoring zone, based on the modeled distance to the 160 dB<sub>RMS</sub> isopleth, will be monitored during all vibratory pile driving activities. All marine mammal sightings, including those beyond the 160 dB<sub>RMS</sub> isopleth, will be recorded.
- b. **DP Vessel during Cable Installation** – DP vessel use during cable installation will not produce sound levels at 180 dB<sub>RMS</sub> beyond 1 m from the source and thus, an exclusion zone will not be established. A monitoring zone, based on the extent to the 160 dB<sub>RMS</sub> isopleth, will be established around the DP vessel. The monitoring zone will extend an estimated 21 m from the source (i.e., DP vessel).

All marine mammal sightings, including those beyond the 160 dB<sub>RMS</sub> isopleth will be recorded.

## 20. Field Verification of Monitoring and Exclusion Zones:

- a. **Impact Pile Driving of WTG Foundations** – Field verification of the initial 200-m radius exclusion zone and the 3.6-km radius monitoring zone for the 200-kJ impact pile driving hammer, as well as the 600-m radius exclusion zone and 7-km radius monitoring zone for 600-kJ impact pile driving hammer, will be conducted. Acoustic measurements will include the driving of the last half (deepest pile segment) for any given open-water pile and will include measurements from two reference locations at two water depths (a depth at mid-water and a depth at approximately 1 m above the seafloor). If the field measurements determine that the actual 180 dB<sub>RMS</sub> and 160 dB<sub>RMS</sub> zones of influence are less than or extend beyond the proposed exclusion zone and monitoring zone radii, a new zone(s) will be established accordingly. The Corps and NMFS will be notified within 24 hours whenever any new exclusion and/or monitoring zone are established by DWBI that extends beyond the initially proposed radii. Implementation of the revised zone(s) smaller than the proposed radii will be contingent upon Corps and NMFS review and approval. In the event that a smaller zone(s) is determined to be appropriate, DWBI will continue to use the originally proposed zone(s) until agency approval is given.
- b. **Vibratory Pile Driving of Cofferdams** – Field verification of the initial 200-m radius exclusion zone (i.e. confirmation that 200 m = 160 dB<sub>RMS</sub>) will be conducted. Acoustic measurements will include measurements from two reference locations at two water depths (a depth at mid-water and a depth at approximately 1 m above the seafloor). If the field measurements determine that the actual 160 dB<sub>RMS</sub> zones of influence is less than or extend beyond the proposed exclusion zone and monitoring zone radii, a new zone(s) will be established accordingly. The Corps and NMFS will be notified within 24 hours whenever any new exclusion and/or monitoring zone are established by DWBI that extends beyond the initially proposed radii. Implementation of the revised zone(s) smaller than the proposed radii will be contingent upon Corps and NMFS review and approval. In the event that a smaller zone(s) is determined to be appropriate, DWBI will continue to use the originally proposed zone(s) until agency approval is given.
- c. **DP Vessel during Cable Installation** – Field verification of the preliminary 21-m radius monitoring zone (i.e., that the 160 dB<sub>RMS</sub> isopleth does not extend beyond 21-m) associated with DP vessel thruster use during cable installation will be performed using acoustic measurements from two reference locations at two water depths (a depth at mid-water and a depth at approximately 1-m above the seafloor). As necessary, the monitoring zone will be modified and implemented as described for vibratory pile driving).

## 21. Protected Species Observers:

- a. All observations for whales and sea turtles in the exclusion and monitoring zones will be performed by NMFS-approved protected species observers (PSO). Observer qualifications will include direct field experience on a marine mammal/sea turtle observation vessel and/or aerial surveys in the Atlantic Ocean/Gulf of Mexico. It is anticipated a minimum of two PSOs will be stationed aboard each noise producing construction support vessel (e.g., derrick barge and cable-lay vessel). Each PSO will monitor 360 degrees of the field of vision. Each PSO will follow the specified monitoring period for each of the following construction activities:
  - i. **DP Vessel during Cable Installation** – PSOs stationed on the DP vessel will begin observation of the monitoring zone as the vessel initially leaves the dock. Observations of the monitoring zone will continue throughout the construction activity and will end after the DP vessel has returned to dock.
  - ii. **Vibratory Pile Driving of Cofferdam** – The PSOs will begin observation of the monitoring zone at least 30 minutes prior to vibratory pile driving. Use of noise producing equipment will not begin until the associated monitoring zone is clear of all marine mammals and sea turtles for at least 30 minutes. In addition, soft-start of construction equipment, as described below, will not be initiated if the monitoring zone cannot be adequately monitored (i.e., obscured by fog, inclement weather, poor lighting conditions) for a 30-minute period. If a soft-start has been initiated before the onset of inclement weather, activities may continue through these periods if deemed necessary to ensure the safety and integrity of the Project. Observation of both the exclusion and monitoring zones will continue throughout the construction activity and will end approximately 30 minutes after use of noise-producing equipment is completed.
- b. For each of the two construction activities (vibratory pile driving and DP thruster use during cable installation), PSOs, using binoculars, will estimate distances to whales and sea turtles either visually, using laser range finders, or by using reticle binoculars during daylight hours. It is important to note that all pile driving activity will occur only during daylight hours. As cable-laying activities will operate 24 hours a day, during night operations, night vision binoculars will be used. If higher vantage points (greater than 25 ft) are available, distances can be measured using inclinometers. Position data will be recorded using hand-held or vessel global positioning system (GPS) units for each sighting, vessel position change, and any environmental change.
- c. For monitoring established exclusion and monitoring zones, each PSO stationed on or in proximity to the noise-producing vessel or location will scan the surrounding area for visual indication of whale and sea turtle presence that may enter the zones. Observations will take place from the highest available vantage

point on the associated operational platform (e.g., support vessel, barge or tug; estimated to be over 20 or more feet above the waterline). General 360-degree scanning will occur during the monitoring periods, and target scanning by the PSO will occur when alerted of the presence of a whale or sea turtle.

- d. Data on all observations will be recorded based on standard PSO collection requirements. This will include dates and locations of construction operations; time of observation, location and weather; details of whale and sea turtle sightings (e.g., species, age classification [if known], numbers, behavior); and details of any observed behavioral disturbances or injury/mortality. In addition, prior to initiation of construction work, all crew members on barges, tugs and support vessels, will undergo environmental training, a component of which will focus on the procedures for sighting and protection of whales and sea turtles. A briefing will also be conducted between the construction supervisors and crews, the PSOs, and DWBIT. The purpose of the briefing will be to establish responsibilities of each party, define the chains of command, discuss communication procedures, provide an overview of monitoring purposes, and review operational procedures. The DWBIT Construction Compliance Managers (or other authorized individual) will have the authority to stop or delay impact pile driving activities, if deemed necessary. New personnel will be briefed as they join the work in progress.

**22. Ramp-up/Soft-Start Procedures:** A ramp-up (also known as a soft-start) will be used for noise-producing construction equipment capable of adjusting energy levels (i.e., pile driving operations). The DP vessel thrusters will be engaged from the time the vessel leaves the dock.

The ramp-up procedure will not be initiated if the monitoring zone cannot be adequately monitored (i.e., obscured by fog, inclement weather, poor lighting conditions) for a 30-minute period. A ramp-up or soft-start will be used at the beginning of each pile segment during vibratory pile driving in order to provide additional protection to marine mammals and sea turtles near the project area by allowing them to vacate the area prior to the commencement of vibratory pile-driving activities. The ramp-up requires an initial set of three strikes from the vibratory hammer at 40 percent energy with a one-minute waiting period between subsequent three-strike sets. The procedure will be repeated two additional times. If marine mammals or sea turtles are sighted within the vibratory pile driving monitoring zone prior to or during the soft-start, activities will be delayed until the animal(s) has moved outside the monitoring zone and no marine mammals or sea turtles are sighted for a period of 30 minutes.

**23. Shutdown Procedures:** The monitoring zone around the noise-producing activities (vibratory pile driving and DP thruster use during cable installation) will be monitored, as previously described, by PSOs for the presence of whales and sea turtles before, during and after any noise-producing activity. PSOs will work in coordination with DWBIT's Construction Compliance Managers (or other authorized individual) to stop or delay any construction activity, if deemed necessary. The following outlines the shutdown procedures:

- a. **DP Vessel during Cable Installation** – During cable installation, a constant tension must be maintained to ensure the integrity of the cable. Any significant

stoppage in vessel maneuverability during jet plow activities has the potential to result in significant damage to the cable. Therefore, during DP vessel operations if whales or sea turtles enter or approach the established exclusion zone, DWBIT will reduce DP thruster to the maximum extent possible, except under circumstances when ceasing DP thruster use would compromise safety (both human health and environmental) and/or the integrity of the Project. As with reduced hammer force for pile driving operations, reducing thruster energy will effectively reduce the potential for exposure of whales and sea turtles to sound energy. Normal use may resume when PSOs report that the monitoring zone has remained clear of whales and/or sea turtles for a minimum of 30 minutes since last the sighting.

- b. **Vibratory Pile Driving of Cofferdams** – Cofferdam construction will produce sound levels of 180 dB<sub>RMS</sub> extending no further than 10 m from the source; therefore, no exclusion zone for this activity has been established. However, if ESA-listed species are observed entering or approaching the 200-m radius monitoring zone for vibratory pile driving, DWBIT shall halt vibratory pile driving as a precautionary measure to minimize noise impact on the animal(s). Ramp-up procedures for vibratory pile driving may be initiated when PSOs report that the monitoring zone has remained clear of marine mammals and/or sea turtles for a minimum of 30 minutes since the last sighting.

24. **Pile Driving - Time of Day Restrictions:** Vibratory pile driving cofferdams will occur during daylight hours starting approximately 30 minutes after dawn and ending 30 minutes prior to dusk unless a situation arises where ceasing the pile driving activity would compromise safety (both human health and environmental) and/or the integrity of the project. If a soft-start has been initiated prior to the onset of inclement weather (e.g., fog, severe rain events), the pile driving of that segment may be completed. No new pile driving activities will be initiated until 30 minutes after dawn or after the inclement weather has passed.

25. **Reporting:** DWBIT will provide the following reports during construction activities:

- a. DWBIT will contact the Corps and NMFS at least 24 hours prior to the commencement of construction activities and again within 24 hours of the completion of the activity.
- b. DWBIT will contact the Corps and NMFS within 24 hours of establishing any exclusion and/or monitoring zone. Within seven days of establishing exclusion and/or monitoring zones, DWBIT will provide a report to the Corps and NMFS detailing the field-verification measurements. This report will include the following information: a detailed account of the levels, durations, and spectral characteristics of the vibratory pile driving sounds, DP thruster use, and the peak, RMS, and energy levels of the sound pulses and their durations as a function of distance, water depth, and tidal cycle.
- c. DWBIT must notify Corps and NMFS within 24 hours of receiving any field monitoring results which indicate that any exclusion or monitoring zones should

be modified (i.e., due to in-field sound monitoring suggesting that model results were too big or too small). No changes will be made to the exclusion or monitoring zones without written (e-mail) approval from the Corps and NMFS.

- d. Any observed behavioral reactions (e.g., animals departing the area) or injury or mortality to any marine mammals, Atlantic sturgeon, or sea turtles must be reported to the Corps and NMFS within 24 hours of observation. If any sturgeon are observed, these instances will also be reported to the Corps and NMFS (incidental.take@noaa.gov) within 24 hours.
- e. A final technical report will be provided to the Corps and NMFS within 120 days after completion of the construction activities. This report must provide full documentation of methods and monitoring protocols (including verification of the sound levels actually produced within the exclusion and monitoring zones), summarize the data recorded during monitoring, and comparing these values to the estimates of listed marine mammals and sea turtles that were expected to be exposed to disturbing levels of noise during construction activities, and provides an interpretation of the results and effectiveness of all monitoring tasks.

**26. Strike Avoidance:** All vessels associated with the construction, operation, maintenance and repair, and decommissioning of the BITS will adhere to NMFS guidelines for marine mammal ship strike avoidance (see [http://www.nmfs.noaa.gov/pr/pdfs/education/viewing\\_northeast.pdf](http://www.nmfs.noaa.gov/pr/pdfs/education/viewing_northeast.pdf)), including maintaining a distance of at least 500 yards from right whales, at least 100 ft from all other whales, and having dedicated lookouts and/or protected species observers posted on all vessels who will communicate with the captain to ensure that all measures to avoid whales are taken.

PSOs will be placed on vessels with noise-producing equipment (e.g., vessels with the pile driver and the DP vessels) and vessels assigned to actively observe the Project's established exclusion and monitoring zones through construction. Other vessels will have a dedicated lookout to watch for whales and sea turtles and to communicate with the captain.

**27. Geophysical Surveys Mitigation and Monitoring:** DWBIT will use the following measures during all geophysical surveys (i.e., multi-beam sonar and sub-bottom profiler [chirp]):

- a. **Implementation of Ramp-Up:** At the start of each survey day, instruments that have the capability of running at variable power levels and operate at a frequency detectable by ESA-listed species will initially be operated at low-levels, then gradually increased to minimum necessary power requirements for quality data collection. This allows any listed species capable of detecting this noise to depart the area before full-power surveying commences. Surveys will not commence (i.e., ramp-up) when the exclusion zone cannot be effectively monitored.
- b. **Establishment of Exclusion Zone:** Whenever multi-beam sonar or the chirp is in use, a 300-m radius exclusion zone (from the source) will be established around the operating vessel or the towed survey device. The sounds produced by this equipment cannot be perceived by sea turtles or Atlantic sturgeon because the

frequency is too high. Therefore, the exclusion zone will be maintained for listed whales. For example, if a sound source is towed 30 m behind the survey vessel, the monitored area from the vessel will be out to 330 m (or 300 m from the source). The 300-m exclusion zone encompasses the 160 dB<sub>RMS</sub> isopleth, which for either geophysical survey device, is expected to occur within 150 m or less from the operating device.

- c. **Visual Monitoring of the Exclusion Zones:** The exclusion zone will be monitored by a trained Environmental Compliance Monitor who will keep vigilant watch for the presence of marine mammals within the exclusion zone. The exclusion zone will be monitored for 30 minutes prior to the ramp-up of sound sources. If the exclusion zone is obscured by fog or poor lighting conditions, surveying utilizing noise-producing equipment will not be initiated until the entire exclusion zone is visible for the 30-minute period. If marine mammals are observed within the 300-m safety exclusion zones during 30-minute period and before the ramp-up begins, surveying utilizing noise-producing equipment will be delayed until they move out of the area.

The Environmental Compliance Monitor assigned to the survey vessel, as well as all individuals onboard the survey vessel responsible for navigation duties, will receive training on marine mammal and sea turtle sighting and reporting and vessel strike avoidance measures. The training course will be modeled after a NMFS-approved marine mammal and sea turtle training program. The training will include details on the federal laws and regulations for protected species (ship strike information, migratory routes, and seasonal abundance), as well as training on species identification.

All sightings of NMFS-listed species will be recorded on an established NMFS-approved log sheet by the Environmental Compliance Monitor. The following data will be recorded:

- i. Dates and location of operations;
- ii. Weather and sea-state conditions;
- iii. Time of observation;
- iv. Approximate location (latitude and longitude) at the time of the sighting;
- v. Details of sighting (species, numbers, behavior);
- vi. General direction and distance of sighting from the vessel;
- vii. Activity of the vessels at the time of sighting; and
- viii. Action taken by the Environmental Compliance Monitor.

All observation data will be provided to NMFS within 60 days of the completion of surveys. In addition, during all survey operations DWBIT will report all sightings of ESA-listed species, regardless of condition, to NMFS (incidental.take@noaa.gov) within 24 hours of the observation and record as much information as possible (e.g., species, size, decomposition state, obvious injuries etc.).

- d. **ShutDown:** If a listed whale is spotted within or transiting towards the exclusion zone when equipment is operating that can be heard by that individual (i.e., the chirp), an immediate shutdown of the equipment will occur. Subsequent restart or ramp-up of equipment will occur only after the whale has cleared the safety exclusion zone.

**Sea Turtles and Atlantic Sturgeon:**

28. All endangered species observers contracted by DWBIT must be approved by the Corps and NMFS. DWBIT shall provide the Corps, and the Corps shall transmit to NMFS, the names and resumes of all endangered species monitors to be employed at the project site at least 30 days prior to the start of WTG construction. No observer shall work at the project site without written approval of NMFS. If during project construction or DP vessel operations, additional endangered species monitors are necessary, DWBIT shall provide those names and resumes, and the Corps shall transmit those names and resumes to NMFS for approval at least 10 days prior to the date that they are expected to start work at the site.

29. Designated exclusion zones for all noise-producing activities must be monitored by NMFS-approved observers. The exclusion zone is considered that area ensounded by injurious levels (i.e., underwater noise levels greater than or equal to 180 dB<sub>RMS</sub>).

Monitoring shall be as follows:

- a. **Vibratory Pile Driving Operations:** Observers must begin monitoring the exclusion zone at least 60 minutes prior to the initiation of soft-start pile driving. Full energy pile driving must not begin until the zone is clear of all sea turtles for at least 60 minutes. Monitoring will continue through the pile driving period and end approximately 60 minutes after pile driving is completed. Observers must notify operators if any sea turtles appear to be moving toward the exclusion zone, so that operations can be adjusted (i.e., pile driving energy reduced) to minimize the size of the exclusion zone. If the latter occurs, the observer must monitor the area within and near the exclusion zone for 60 minutes, and if clear after 60 minutes after the last sighting, notify the operator that full energy pile driving may resume.
- b. **DP vessel operations:** Observers will begin monitoring the exclusion zone as soon as the vessel leaves the dock and continue throughout the construction activity. Observers must notify the vessel operator if any sea turtles appear to be moving toward the exclusion zone, so that operations can be adjusted (i.e., reduced DP thruster energy) to minimize the size of the exclusion zone. If the latter occurs, the observer must monitor the area within and near the exclusion zone for 60 minutes, and if clear after 60 minutes of the last sighting, notify the vessel operator that full energy thruster use may resume. As DP vessels will be operational for 24 hours, at least two observers shall be onboard the vessel, working a 12-hour on, 12-hour off schedule. That observer working the night shift needs to be provided night-vision binoculars.

30. Field verification of modeled noise levels for injury or mortality must be undertaken and must be conducted throughout the work period to confirm modeled sound levels. This needs

to be conducted for: (1) installation and removal of cofferdams with vibratory pile driving; and (2) DP thruster use. Acoustic verification and monitoring must be conducted during DP thruster use, and vibratory pile driving (for cofferdam installation and removal) to ensure the exclusion zone is appropriately defined and thus, monitored by the observer required in Condition 29. Acoustic monitoring must be sufficient to determine source levels (i.e., within 1 m of the source), as well as the following:

- c. Atlantic sturgeon acoustic injury thresholds: Distance to the 206 peak sound level ( $\text{dB}_{\text{Peak}}$ ) and 187 cumulative sound exposure level ( $\text{dB}_{\text{cSEL}}$ ) isopleths.
- d. Sea turtle acoustic injury threshold: Distance to the 207  $\text{dB}_{\text{RMS}}$  isopleth.

Results of this monitoring must be reported, via email, ([danielle.palmer@noaa.gov](mailto:danielle.palmer@noaa.gov)) to NMFS. For pile driving operations, results must be provided to NMFS prior to the installation of the next pile or within 24 hours of installation, whichever is sooner. For DP vessel operation, results must be provided every 24 hours. If there is any indication that injury thresholds have been attained in a manner not considered in the NMFS Biological Opinion dated January 30, 2014 (i.e., extent of 206  $\text{dB}_{\text{Peak}}$  or 187  $\text{dB}_{\text{cSEL}}$  [Atlantic sturgeon]; 207  $\text{dB}_{\text{RMS}}$  [sea turtles]), NMFS must be contacted immediately.

31. Any ESA listed species, including Atlantic sturgeon, observed during activities authorized under this Permit must be recorded, with information submitted to NMFS within 30 days. Any dead or injured individuals must be reported to NMFS within 24 hours. In the event of any observations of dead sea turtles or Atlantic sturgeon, dead specimens should be collected with a net and preserved (refrigerate or freeze) until disposal procedures are discussed with NMFS.

32. Reasonable attempts should be made to collect any dead sea turtles or sturgeon. These individuals shall be held in cold storage until disposition can be discussed with NMFS. The Corps or DWBIT must contact NMFS within 24 hours of any observations of dead or injured ESA listed species. NMFS will provide contact information when alerted of the start of project activity. Until alerted otherwise, the USACE should contact the Section 7 Coordinator by phone (978)281-9328 or fax 978-281-9394). Take information should also be reported by e-mail to: [incidental.take@noaa.gov](mailto:incidental.take@noaa.gov).

**Other Stipulations:**

33. **Nearshore Transmission Cable Burial Depth:** The minimum transmission cable burial depth between Mean High Water (MHW) and Mean Low Water (MLW) shall be Elevation minus 10 feet MLW. Transmission Cable installation depth below beaches and dunes at cable landing locations shall also achieve a minimum burial depth of 10' below the beach sediment surface. Burial depth below dunes shall be based on the elevation of the beach at the base of the dunes and shall not include the dune height in the burial depth measurement. Long Distance Horizontal Directional Drilling (Long Distance HDD) is required to assure this minimal burial depth requirement is met at the mainland Scarborough Beach landing. A post installation survey, stamped by a RI registered Land Surveyor or Engineer, that provides the elevation of the top of the cable on the mean low water datum and horizontally on the RI State Plane coordinate system shall be submitted to the Corps to confirm this requirement has

been met. This survey shall be submitted within 15 days of transmission cable installation at the beach landing locations.

**34. Environmental Compliance Monitor:** DWBIT shall employ an Environmental Compliance Monitor (ECM) to monitor environmental compliance during all construction activities associated with the BITS. The ECM shall be a third-party entity hired by DWBIT.

**35. Cable Location and Scour Protection:** Within 15 days of completing the installation of the submarine transmission cable, DWBIT shall submit a post-construction survey, stamped by a Rhode Island-registered Professional Land Surveyor or Engineer, of the actual cable location and the proposed cable easement with State Plane and LA T /LON coordinates for the cable angle points, easement comers / angle points of all scour protection matting (concrete filled bags, concrete mats, stone, etc.) installed on the ocean floor to protect the transmission cable. If the area of the ocean bottom impacted by protective armoring exceeds the 2.1 acres of total ocean bottom coverage estimated within the Environmental Report/COP, the Corps may require marine habitat compensation to be determined after submission of the post-installation survey.

**36.** Prior to commencing construction, DWBIT shall obtain a Right-of-Way Grant from the Bureau of Ocean Energy Management for the portions of the BITS cable in federal waters on the Outer Continental Shelf.

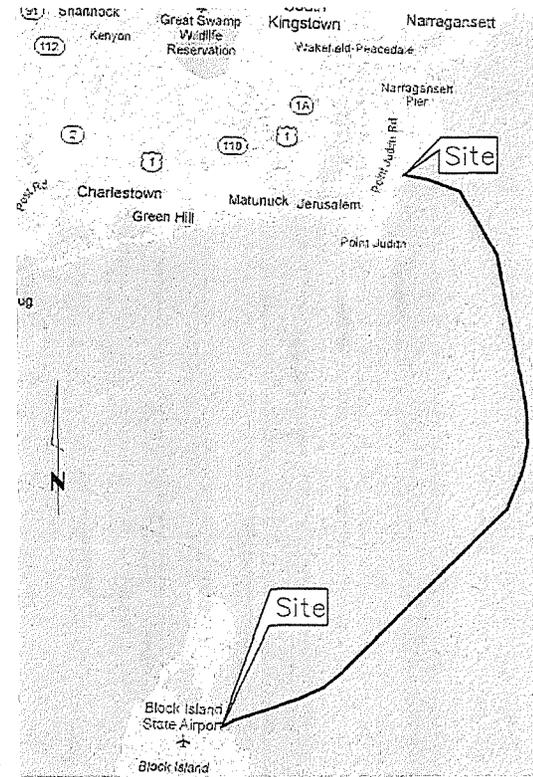
# BLOCK ISLAND TRANSMISSION, LLC. 34.5 kV BITS UNDERGROUND ROUTE

DRAWING MANIFEST	
SHEET #	REV DATE DESCRIPTION
P1-1	D 06/09/2013 ROUTE KEY SHEET
P1-1	C 05/23/2012 BLOCK ISLAND PLAN VIEW
P1-2	D 06/09/2013 BLOCK ISLAND PLAN VIEW
P1-3	D 06/09/2013 BLOCK ISLAND PLAN VIEW
P1-4	D 06/09/2013 BLOCK ISLAND PLAN VIEW
P1-5	D 06/09/2013 BLOCK ISLAND PLAN VIEW
P1-6	D 06/09/2013 BLOCK ISLAND PLAN VIEW
P1-7	F 05/23/2012 OCEAN PLAN AND PROFILES
P1-8	C 05/23/2012 OCEAN PLAN AND PROFILES
P1-9	C 05/23/2012 OCEAN PLAN AND PROFILES
P1-10	C 05/23/2012 OCEAN PLAN AND PROFILES
P1-11	D 06/05/2013 OCEAN PLAN AND PROFILES
P1-12	D 06/05/2013 OCEAN PLAN AND PROFILES
P1-13	I 06/06/2013 OCEAN PLAN AND PROFILES
P1-14	E 06/06/2013 OCEAN PLAN AND PROFILES
U3-1	E 04/05/2013 BLOCK ISLAND DETAIL SHEET
U3-2	C 03/05/2013 BLOCK ISLAND BRIDGE DETAILS

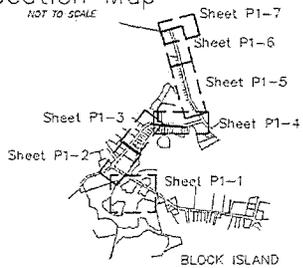
### Legend:

OVERHEAD WIRES		SEE SHEET LINE
EXISTING OVERHEAD WIRES		
UNDERGROUND ELECTRIC		TOWN/CITY LINE
EXISTING UNDERGROUND ELECTRIC		City of Name
ASSESSOR'S LINE		City of Name
GAS LINE		STONE BOUND
WATER LINE		DRILL HOLE
SEWER LINE		IRON PIN
DRAIN LINE		HUB AND TACK/PX NAIL
SEWER FORCE MAIN		BUILDING
CONTOUR LINE		TREELINE
EASEMENT LINE		EXISTING TREELINE
SEWER VALVE		TREES
WATER VALVE		GUARDRAIL
GAS VALVE		EXISTING GUARDRAIL
HYDRANT		FENCE
WATER SHUT OFF		RETAINING WALL
ELECTRIC MANHOLE		EXISTING RETAINING WALL
TELEPHONE MANHOLE		STONE WALL
SEWER MANHOLE		EXISTING STONE WALL
DRAINAGE MANHOLE		PROPOSED UNDERGROUND ROUTE
CATCH BASIN		PROPOSED MANHOLE
LIGHT POLE		LIMIT OF WORK
UTILITY POLE		DUNE LINE
GUY WIRE		WETLAND LINE AND FLAG
SIGN		STREAM LINE AND FLAG
WELL		50' PERMETER WETLAND LINE
BORING LOCATION WITH DESCRIPTION		100' RIVERBANK WETLAND LINE
DRAWING MATCH LINE		200' LANDWARD OF A COASTAL FEATURE LINE
LIMITS OF PAVING		EROSION CONTROL LINE
		EXISTING SETBACK LINE
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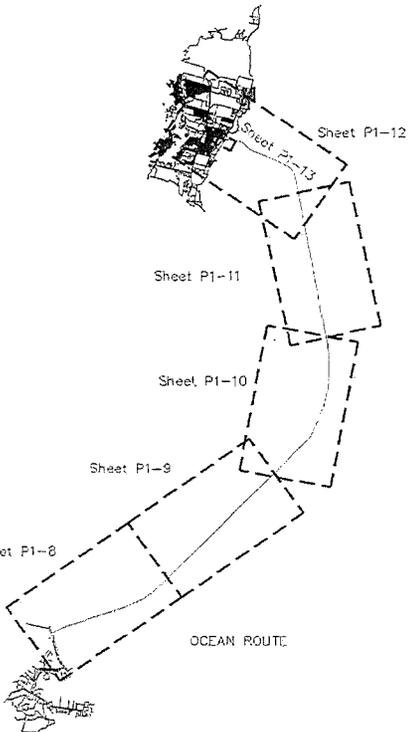
See Sheet ###



Location Map  
NOT TO SCALE



Key Map  
NOT TO SCALE

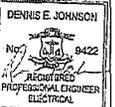


### General Notes

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DEEPWATERWIND

AECOM

REV	REVISIONS	DATE	DRN	DSGN	CHK	APPR	REV	REVISIONS	DATE	DRN	DSGN	CHK	APPR	REFERENCE DRAWINGS
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							C	ISSUED FOR PERMIT	05/23/2012	BWF	JJS	DEJ		
							B	ISSUED FOR REVIEW	05/07/2012	BWF	JJS	DEJ		
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DSGN	JJS	03/16/2010
DRN	BWF	04/16/2012
CHK	DEJ	03/16/2012

SCALE: N.T.S.



DEEPWATER WIND  
BLOCK ISLAND TRANSMISSION, LLC

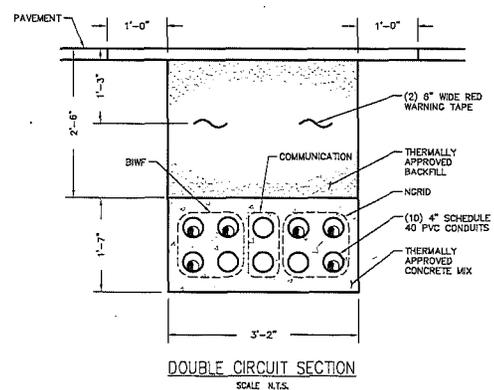
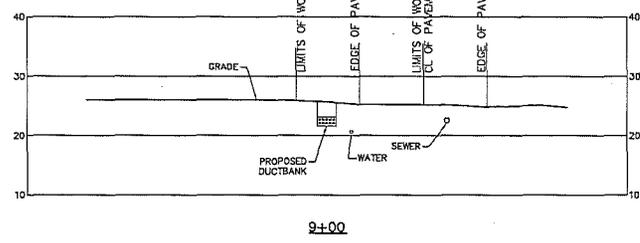
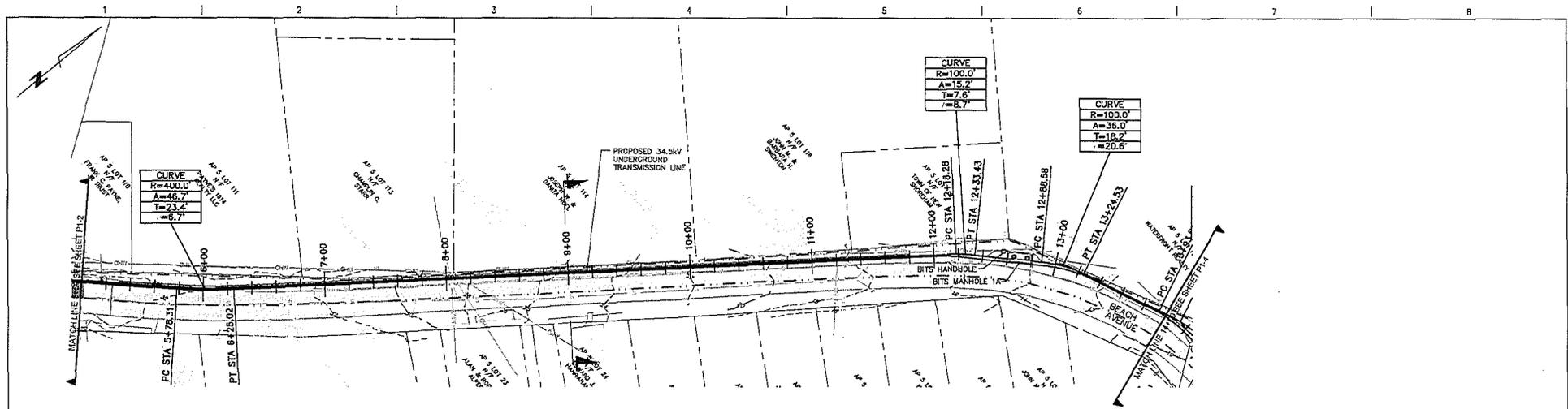
ROUTE KEY SHEET  
34.5V BITS UNDERGROUND ROUTE

JOB NUMBER	REV
116631	A
DRAWING NUMBER	G1-1

OCEAN ROUTE BITS-G19

700 2214 040 044





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2. ALL WORK WITHIN STATE'S ROW WILL CONFORM TO RIDOT'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 204 EDITION AND STANDARD DETAILS, JUNE 15, 1999, AS AMENDED BY REVISION.
3. SEE RIDOT STANDARD 34.1.0 FOR TYPICAL GUARDRAIL INSTALLATION.
4. SEE RIDOT STANDARD L02 FOR SEEDING OF OFF ROAD RESTORATION AREAS.
5. SEE RIDOT STANDARD T.20 FOR PAVEMENT MARKINGS.



DENNIS E. JOHNSON  
 No. 6422  
 REGISTERED PROFESSIONAL ENGINEER  
 ELECTRICAL

BLOCK ISLAND ROUTE.dwg



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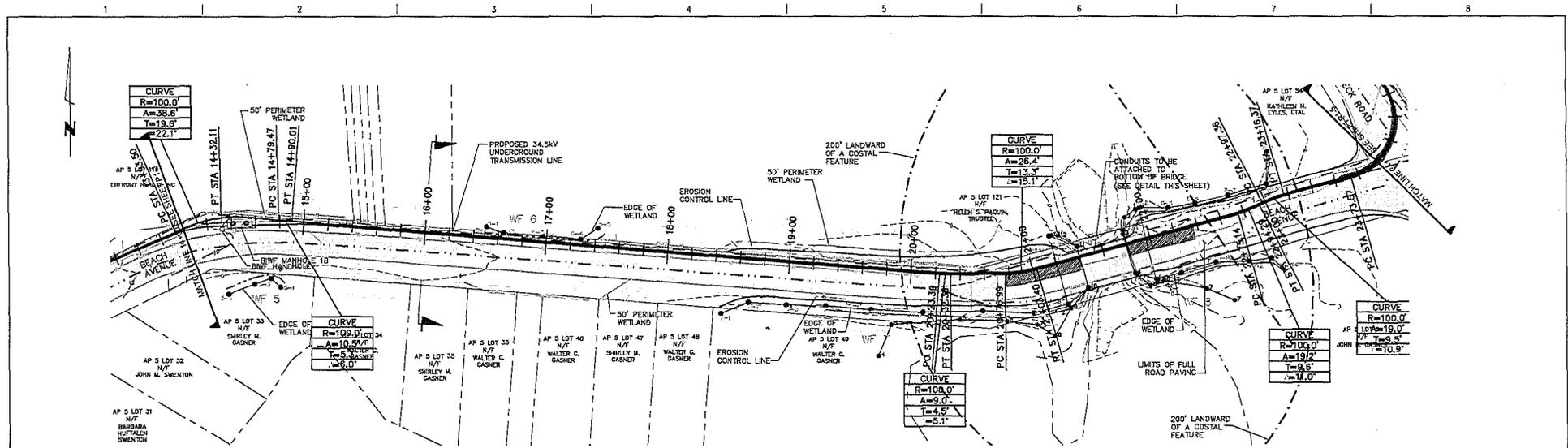
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C	ISSUED FOR PERMIT	05/23/2012	BWF	JJS	DEJ									
B	ISSUED FOR REVIEW	05/07/2012	BWF	JJS	DEJ									
A	ISSUED FOR REVIEW	04/12/2012	JJS	JJS	DEJ									

DSGN JJS 03/29/2012  
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 CKD DEJ 03/29/2012  
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 FOR 22534 DWG ONLY

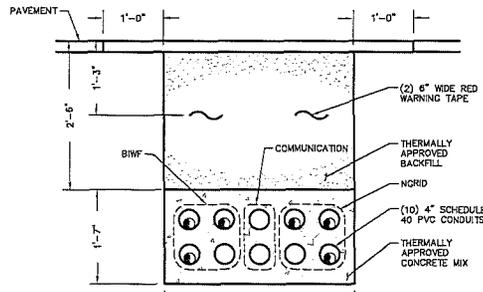


DEEPWATER WIND  
 BLOCK ISLAND TRANSMISSION, LLC  
 BLOCK ISLAND PLAN VIEW  
 34.5KV BITS UNDERGROUND ROUTE

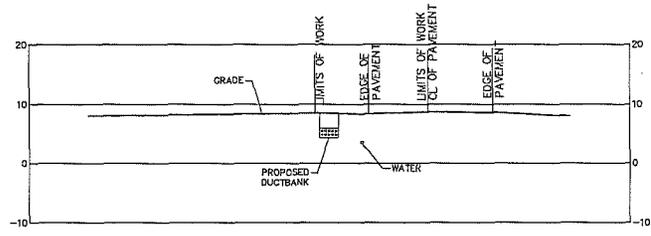
JOB NUMBER 119631  
 REV 1  
 DRAWING NUMBER P1-3



BRIDGE CROSS SECTION  
LOOKING EAST



DOUBLE CIRCUIT SECTION  
SCALE N.T.S.



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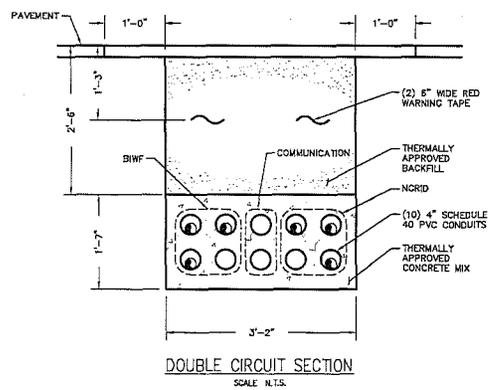
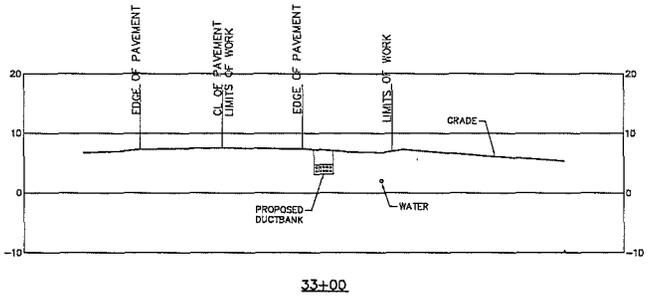
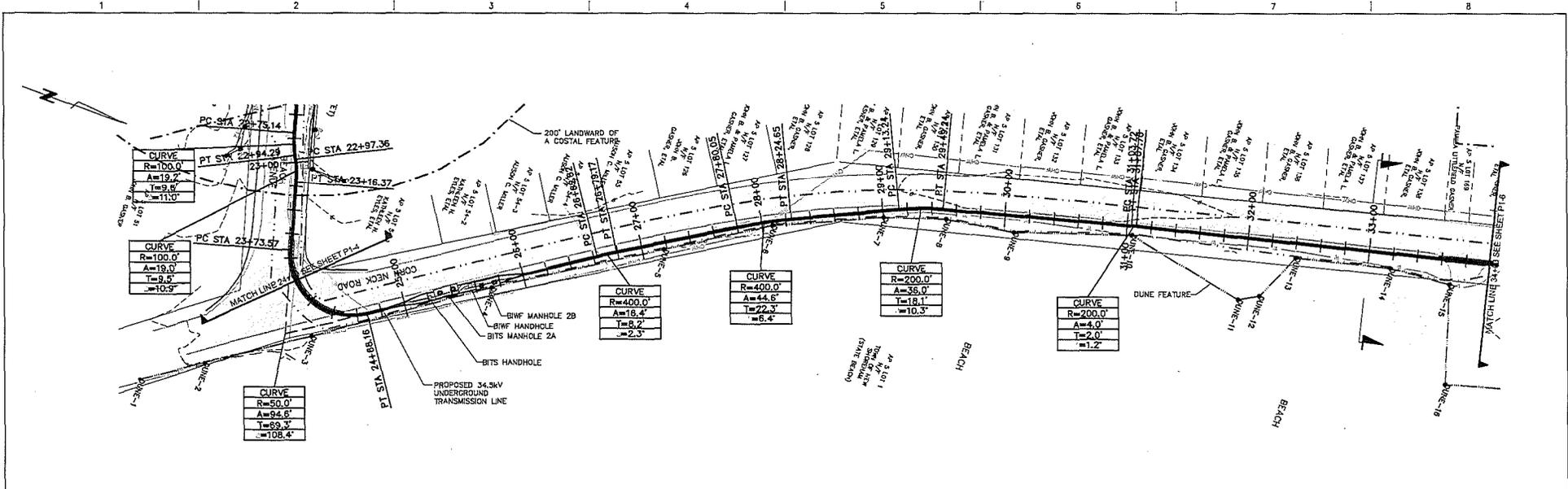
SCALE: PLAN: 1" = 40'  
SECTION: 1" = 10'  
FOR 22x24 DWG ONLY

POWER ENGINEERS  
www.powereng.com  
1109 S. King Line Road  
Lynch, VA 22503

DEEPWATER WIND  
BLOCK ISLAND TRANSMISSION, LLC  
BLOCK ISLAND PLAN VIEW  
34.5kV BITS UNDERGROUND ROUTE

JOB NUMBER REV  
119631  
DRAWING NUMBER  
P1-4

BLOCK ISLAND ROUTE.dwg



**General Notes**

1. THE UTILITIES SHOWN HEREON ARE BASED ON FIELD SURVEYS, AERIAL PHOTOGRAPHY AND RECORD DOCUMENTS. OTHER FACILITIES MAY EXIST NOT DISCOVERED THROUGH THE RECORD CHECK. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION, BOTH HORIZONTAL AND VERTICAL OF ALL UTILITIES THROUGH THE APPROPRIATE UTILITY COMPANIES, CALL BEFORE YOU DIG.
2. ALL WORK WITHIN STATE'S ROW WILL CONFORM TO RIDOT'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 204 EDITION AND STANDARD DETAILS, JUNE 15, 1998, AS AMENDED BY REVISION.
3. SEE RIDOT STANDARD 34.1.0 FOR TYPICAL GUARDRAIL INSTALLATION.
4. SEE RIDOT STANDARD L02 FOR SEEDING OF OFF ROAD RESTORATION AREAS.
5. SEE RIDOT STANDARD T.20 FOR PAVEMENT MARKINGS.



**DEEPWATER WIND**  
 THIS DRAWING WAS PREPARED BY DEEPWATER WIND ENGINEERS, INC. FOR A SPECIFIC PROJECT. TAKING INTO CONSIDERATION THE SPECIFIC AND UNIQUE REQUIREMENTS OF THE PROJECT, REUSE OF THIS DRAWING OR ANY INFORMATION CONTAINED IN THIS DRAWING FOR ANY PURPOSE IS PROHIBITED UNLESS WRITTEN PERMISSION FROM DEEPWATER WIND ENGINEERS, INC. IS OBTAINED.



REV	REVISIONS	DATE	DRN	DSGN	CKD	APPD	REV

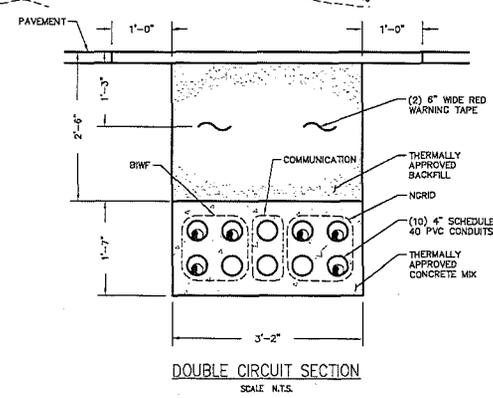
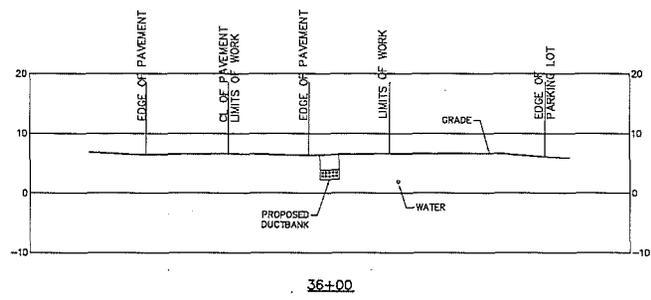
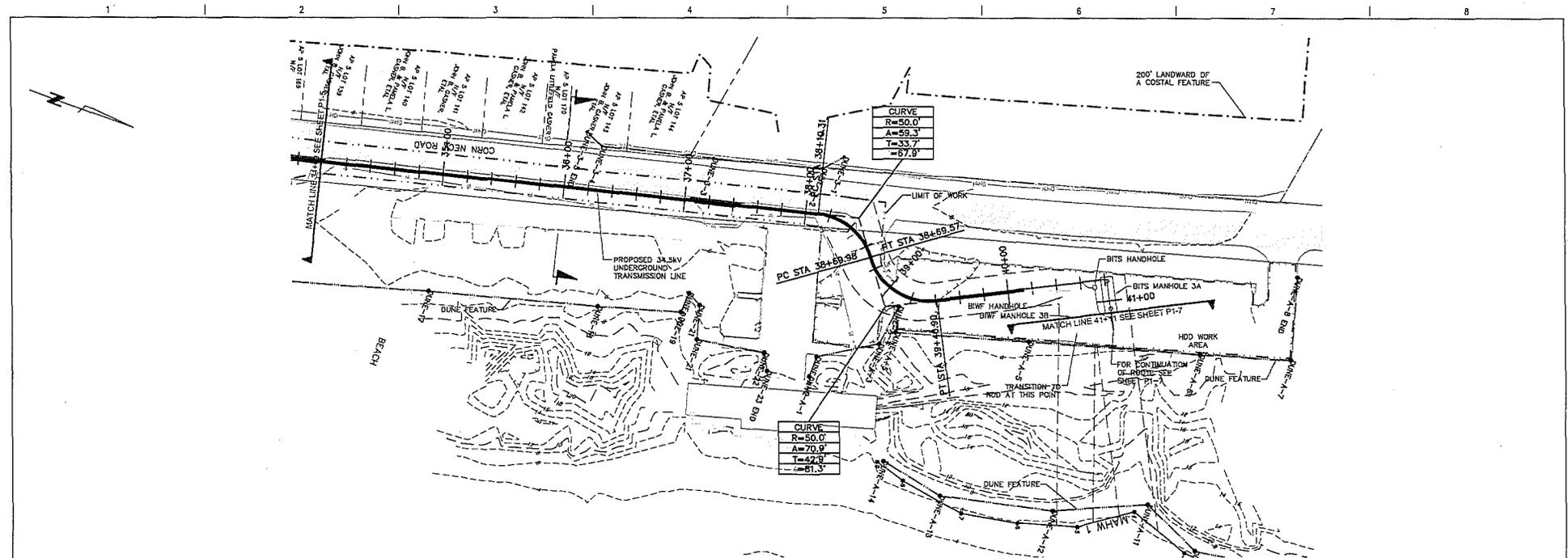
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E	08/06/2013	JJS	JJS	DEJ		
D	05/31/2013	JJS	JJS	DEJ		
C	05/23/2012	BWF	JJS	DEJ		
B	05/07/2012	BWF	JJS	DEJ		
A	04/12/2012	JJS	JJS	DEJ		

DSGN: JJS 03/29/2012  
 DRN: JJS 03/29/2012  
 CKD: DEJ 03/29/2012  
 SCALE: PLAN: 1" = 40'  
 SECTION: 1" = 10'  
 FOR 22x34 DWG ONLY



DEEPWATER WIND  
 BLOCK ISLAND TRANSMISSION, LLC  
 BLOCK ISLAND PLAN VIEW  
 34.5KV BITS UNDERGROUND ROUTE

DENNIS E. JOHNSON  
 No. 8422  
 REGISTERED PROFESSIONAL ENGINEER  
 ELECTRICAL  
 JOB NUMBER: 119631  
 DRAWING NUMBER: P1-5



- General Notes**
1. THE UTILITIES SHOWN HEREON ARE BASED ON FIELD SURVEYS, AERIAL PHOTOGRAPHY AND RECORD DOCUMENTS. OTHER FACILITIES MAY EXIST NOT DISCOVERED THROUGH THE RECORD CHECK. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION, BOTH HORIZONTAL AND VERTICAL OF ALL UTILITIES THROUGH THE APPROPRIATE UTILITY COMPANIES, CALL BEFORE YOU DIG.
  2. ALL WORK WITHIN STATE'S ROW WILL CONFORM TO RIDOT'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 204 EDITION AND STANDARD DETAILS, JUNE 15, 1992, AS AMENDED BY REVISION.
  3. SEE RIDOT STANDARD 34.1.0 FOR TYPICAL GUARDRAIL INSTALLATION.
  4. SEE RIDOT STANDARD L.02 FOR SEEDING OF OFF ROAD RESTORATION AREAS.
  5. SEE RIDOT STANDARD T.20 FOR PAVEMENT MARKINGS.



**AECOM**

REV	REVISIONS	DATE	DRN	DSGN	CKD	APPD	REV	REVISIONS	DATE	DRN	DSGN	CKD	APPD	REFERENCE DRAWINGS
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							D	ISSUED FOR PERMIT	05/31/2013	JJS	JJS	DEJ		
							C	ISSUED FOR PERMIT	05/23/2012	BWF	JJS	DEJ		
							B	ISSUED FOR REVIEW	05/07/2012	BWF	JJS	DEJ		
							A	ISSUED FOR REVIEW	04/12/2012	JJS	JJS	DEJ		

DSGN	JJS	03/29/2012
DRN	JJS	03/29/2012
CKD	DEJ	03/29/2012

SCALE: PLAN: 1" = 40'  
SECTION: 1" = 10'  
FOR 22x34 DWG ONLY



DEEPWATER WIND  
BLOCK ISLAND TRANSMISSION, LLC

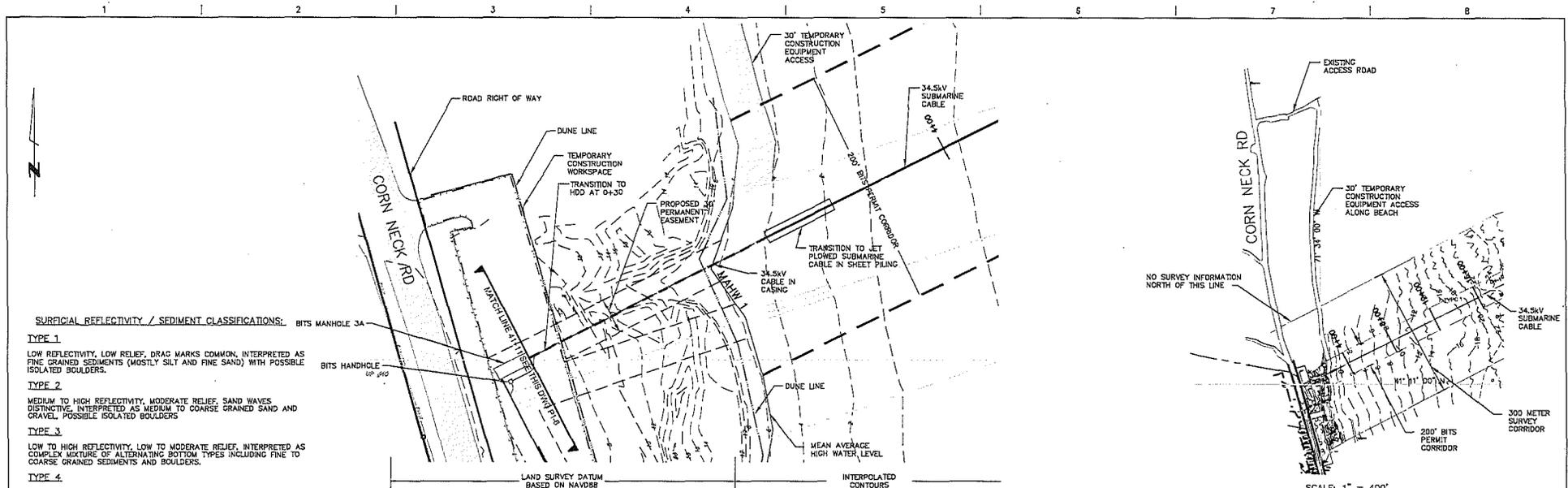
BLOCK ISLAND PLAN VIEW  
34.5KV BITS UNDERGROUND ROUTE

JOB NUMBER	REV
119531	

DRAWING NUMBER  
P1-6

DENNIS E. JOHNSON  
No. 8422  
REGISTERED PROFESSIONAL ENGINEER ELECTRICAL

BLOCK ISLAND ROUTE.dwg



**SURFICIAL REFLECTIVITY / SEDIMENT CLASSIFICATIONS:**

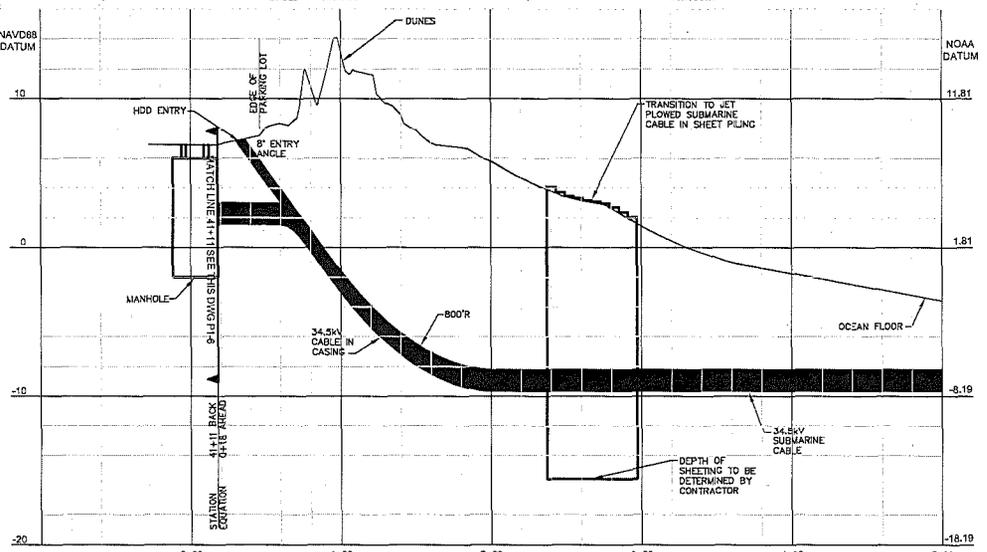
**TYPE 1**  
 LOW REFLECTIVITY, LOW RELIEF. DRAG MARKS COMMON, INTERPRETED AS FINE GRAINED SEDIMENTS (MOSTLY SILT AND FINE SAND) WITH POSSIBLE ISOLATED BOULDERS.

**TYPE 2**  
 MEDIUM TO HIGH REFLECTIVITY, MODERATE RELIEF, SAND WAVES DISTINCTIVE, INTERPRETED AS MEDIUM TO COARSE GRAINED SAND AND GRAVEL, POSSIBLE ISOLATED BOULDERS.

**TYPE 3**  
 LOW TO HIGH REFLECTIVITY, LOW TO MODERATE RELIEF, INTERPRETED AS COMPLEX MIXTURE OF ALTERNATING BOTTOM TYPES INCLUDING FINE TO COARSE GRAINED SEDIMENTS AND BOULDERS.

**TYPE 4**  
 LOW TO HIGH REFLECTIVITY, MODERATE TO HIGH RELIEF, INTERPRETED AS HARD, COMPACT SEALED INCLUDING PRIMARILY GRAVEL, COBBLES, AND BOULDERS IN SAND MATRIX.

--- GRADATIONAL BOUNDARY BETWEEN BOTTOM TYPES



- General Notes**
1. THE UTILITIES SHOWN HEREON ARE BASED ON FIELD SURVEYS, AERIAL PHOTOGRAPHY AND RECORD DOCUMENTS. OTHER FACILITIES MAY EXIST NOT DISCOVERED THROUGH THE RECORD CHECK. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION, BOTH HORIZONTAL AND VERTICAL, OF ALL UTILITIES THROUGH THE APPROPRIATE UTILITY COMPANIES. CALL BEFORE YOU DIG.
  2. ALL PROPERTY LINE INFORMATION IS SHOWN APPROXIMATE AND BASED ON TOWN ASSESSOR'S PLATS ONLY.
  3. NAVD88 ELEVATION OF NOAA MLLW AT BLOCK ISLAND = 1.81'



Know what's below.  
Call before you dig.

DENNIS E. JOHNSON  
 No. 0422  
 REGISTERED PROFESSIONAL ENGINEER ELECTRICAL

OCEAN ROUTE.dwg

DEEPWATER WIND

THIS DRAWING WAS PREPARED BY POWER ENGINEERS, INC. FOR A SPECIFIC PROJECT. TAKING INTO CONSIDERATION THE SPECIFIC AND UNIQUE REQUIREMENTS OF THE PROJECT, NONE OF THE DRAWINGS OR ANY INFORMATION CONTAINED IN THIS DRAWING FOR ANY PURPOSE IS TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS WITHOUT WRITTEN PERMISSION FROM BOTH POWER AND POWER'S CLIENT IS GRANTED.

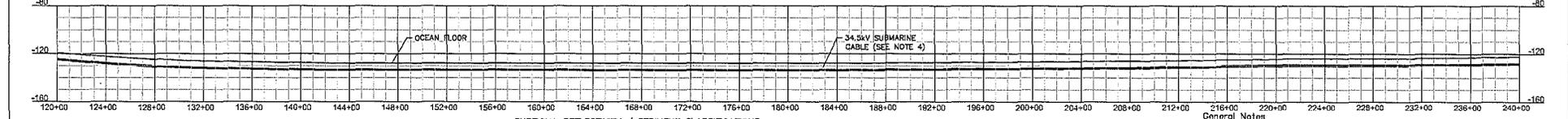
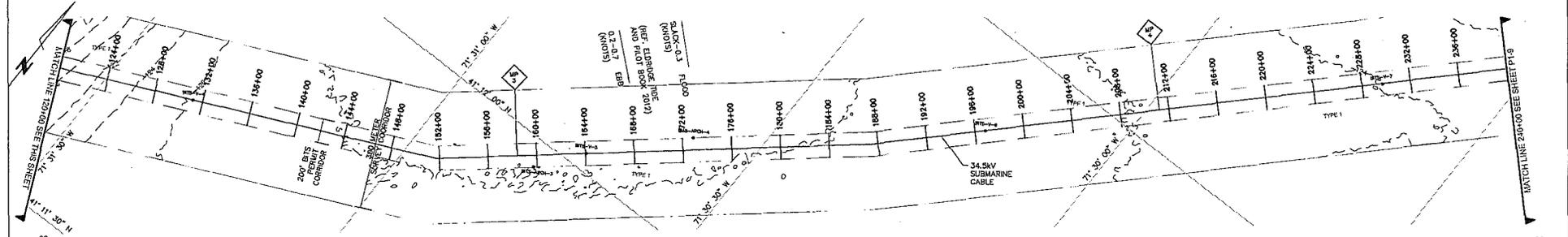
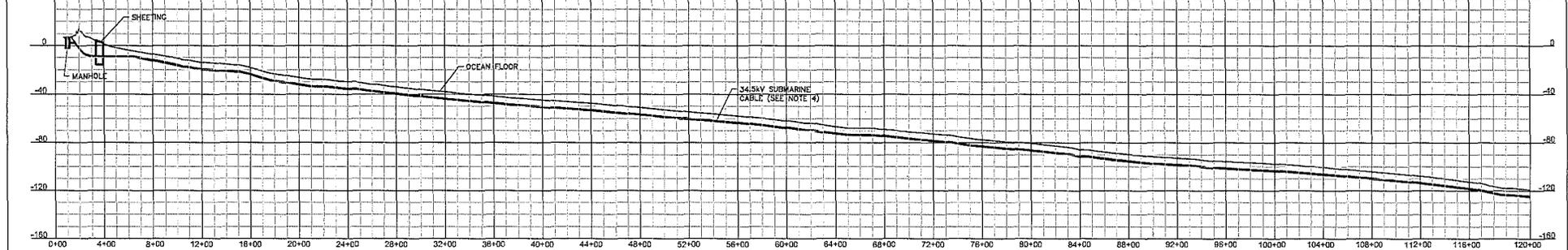
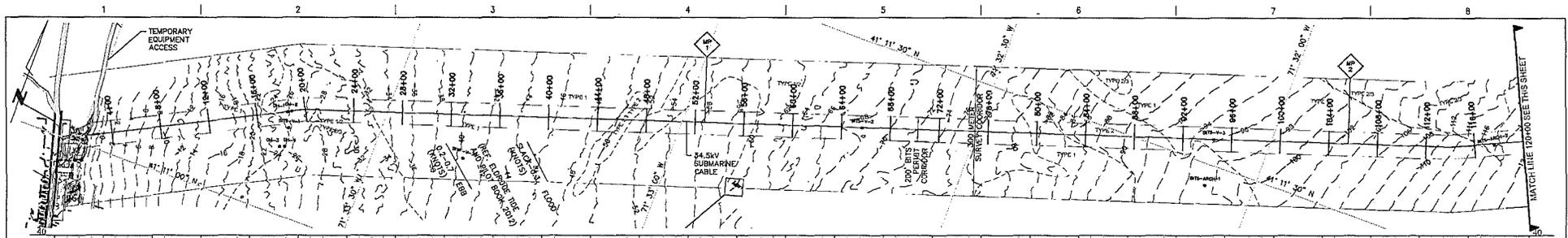
REV	REVISIONS	DATE	DRN	DSGN	CKD	APPD	REV	REVISIONS	DATE	DRN	DSGN	CKD	APPD	REFERENCE DRAWINGS
E	ISSUED FOR REVIEW	05/07/2012	BWF	JJS	DEJ									
D	ISSUED FOR REVIEW	04/04/2012	JJS	JJS	TBB									
C	ISSUED FOR REVIEW	03/30/2012	BWF	JJS	DEJ									
B	ISSUED FOR REVIEW	03/26/2012	BWF	JJS	DEJ									
A	ISSUED FOR REVIEW	03/21/2012	BWF	JJS	DEJ									
F	ISSUED FOR PERMIT	05/23/2012	BWF	JJS	DEJ									

**POWER ENGINEERS**  
 www.powereng.com

DEEPWATER WIND  
 BLOCK ISLAND TRANSMISSION, LLC  
 OCEAN PLAN AND PROFILES  
 34.5kV BITS UNDERGROUND ROUTE

JOB NUMBER  
 119631  
 DRAWING NUMBER  
 P1-7

SCALE: HORIZ: 1" = 40'  
 VERT: 1" = 4'  
 FOR 22-34 DWS ONLY



**SUBCIRCULAR REFLECTIVITY / SEDIMENT CLASSIFICATIONS:**

- TYPE 1**  
 LOW REFLECTIVITY, LOW RELIEF, DRAG MARKS COMMON, INTERPRETED AS FINE GRAINED SEDIMENTS (MOSTLY SILT AND FINE SAND) WITH POSSIBLE ISOLATED BOULDERS.
- TYPE 2**  
 MEDIUM TO HIGH REFLECTIVITY, MODERATE RELIEF, SAND WAVES DISTINCTIVE, INTERPRETED AS MEDIUM TO COARSE GRAINED SAND AND GRAVEL, POSSIBLE ISOLATED BOULDERS.

- TYPE 3**  
 LOW TO HIGH REFLECTIVITY, LOW TO MODERATE RELIEF, INTERPRETED AS COMPLEX MIXTURE OF ALTERNATING BOTTOM TYPES INCLUDING FINE TO COARSE GRAINED SEDIMENTS AND BOULDERS.
- TYPE 4**  
 LOW TO HIGH REFLECTIVITY, MODERATE TO HIGH RELIEF, INTERPRETED AS HARD, COMPACT SCABED INCLUDING PRIMARILY GRAVEL, COBBLES, AND BOULDERS IN SAND MATRIX.

GRADATIONAL BOUNDARY BETWEEN BOTTOM TYPES

- Critical Notes**
1. THE UTILITIES SHOWN HEREON ARE BASED ON FIELD SURVEYS, AERIAL PHOTOGRAPHY AND RECORD DOCUMENTS. OTHER FACILITIES MAY EXIST NOT DISCOVERED THROUGH THE RECORD CHECK. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION, BOTH HORIZONTAL AND VERTICAL, OF ALL UTILITIES THROUGH THE APPROPRIATE UTILITY COMPANIES. CALL BEFORE YOU DIG.
  2. OCEAN SURVEY PERFORMED BY OCEAN SURVEYS, INC.
  3. NOAA MLLW = 0.00'
  4. TARGET DEPTH OF SUBMARINE CABLE IS 6'-0"

OCEAN ROUTE.dwg  
 DEEPWATER WIND  
 THIS DRAWING WAS PREPARED BY POWER ENGINEERS, INC. FOR A SPECIFIC PROJECT. TAKING INTO CONSIDERATION THE SPECIFIC AND UNIQUE REQUIREMENTS OF THIS PROJECT, PLEASE BE AWARE THAT ANY INFORMATION CONTAINED IN THIS DRAWING FOR ANY PURPOSE IS PROVIDED UNLESS NOTED OTHERWISE FROM BOTH POWER AND POWER'S CLIENT IS GRANTED.

REV	REVISIONS	DATE	DRN	DSGN	CKD	APPD	REV
C	ISSUED FOR PERMIT	05/23/2012	BWF	JJS	DEJ		
B	ISSUED FOR REVIEW	05/07/2012	BWF	JJS	DEJ		
A	ISSUED FOR REVIEW	03/21/2012	BWF	JJS	DEJ		

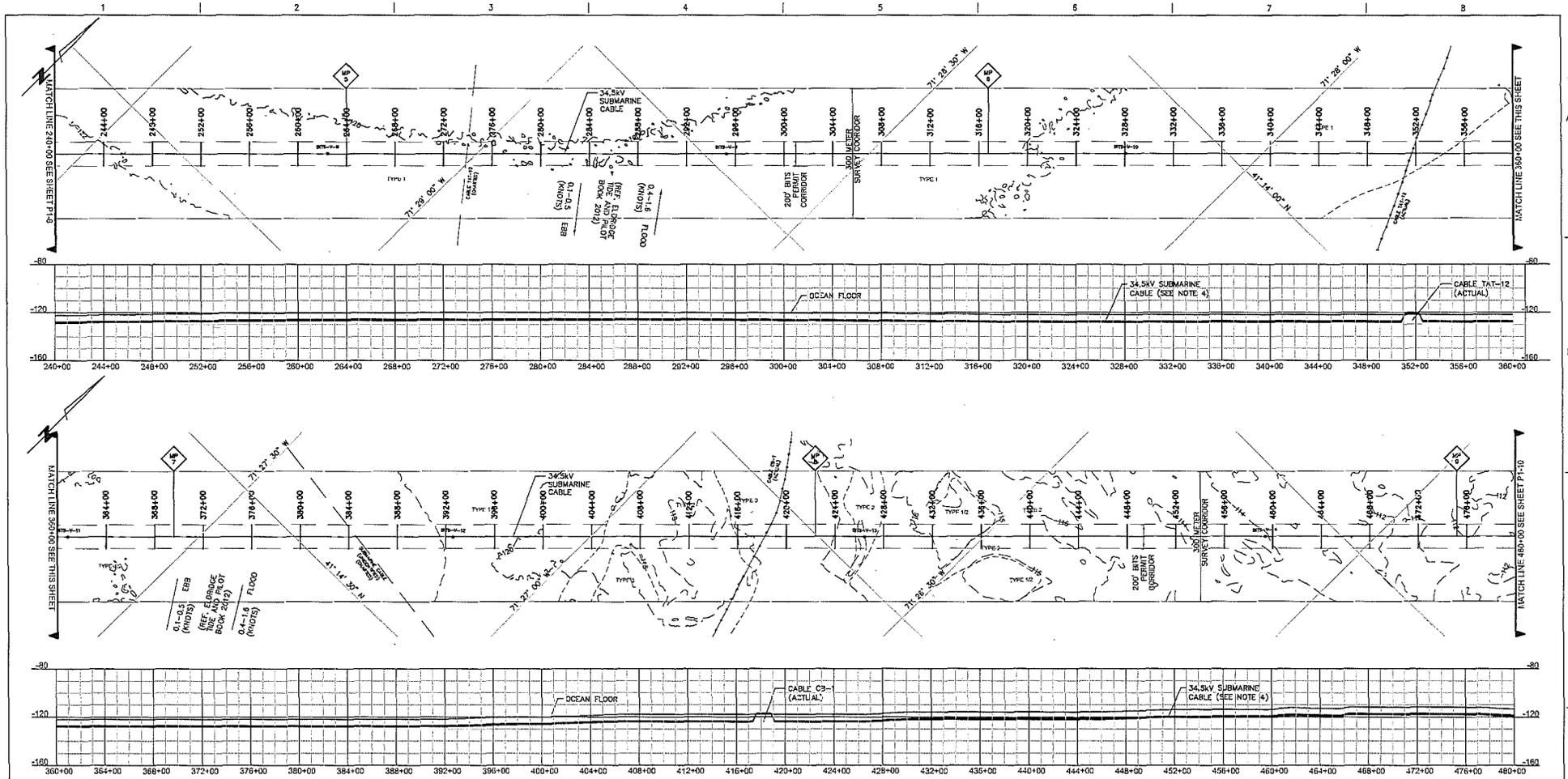
REV	REVISIONS	DATE	DRN	DSGN	CKD	APPD	REFERENCE DRAWINGS

DSGN	JJS	03/16/2012
DRN	BWF	03/16/2012
CKD	DEJ	03/16/2012

SCALE: VERT: 1" = 40'  
 HORIZ: 1" = 400'  
 FOR 22534 DWG ONLY

POWER ENGINEERS  
 DEEPWATER WIND  
 BLOCK ISLAND TRANSMISSION, LLC  
 OCEAN PLAN AND PROFILES  
 34.5KV BITS UNDERGROUND ROUTE

DENNIS E. JOHNSON  
 No. 0422  
 REGISTERED PROFESSIONAL ENGINEER ELECTRICAL  
 JOB NUMBER 119831  
 REV P1-8



**SURFICIAL REFLECTIVITY / SEDIMENT CLASSIFICATIONS:**

**TYPE 1**

LOW REFLECTIVITY, LOW RELIEF, DRAG MARKS COMMON, INTERPRETED AS FINE GRAINED SEDIMENTS (MOSTLY SILT AND FINE SAND) WITH POSSIBLE ISOLATED BOULDERS.

**TYPE 2**

MEDIUM TO HIGH REFLECTIVITY, MODERATE RELIEF, SAND WAVES DISTINCTIVE, INTERPRETED AS MEDIUM TO COARSE GRAINED SAND AND GRAVEL, POSSIBLE ISOLATED BOULDERS

**TYPE 3**

LOW TO HIGH REFLECTIVITY, LOW TO MODERATE RELIEF, INTERPRETED AS COMPLEX MIXTURE OF ALTERNATING BOTTOM TYPES INCLUDING FINE TO COARSE GRAINED SEDIMENTS AND BOULDERS.

**TYPE 4**

LOW TO HIGH REFLECTIVITY, MODERATE TO HIGH RELIEF, INTERPRETED AS HARD, COMPACT SEALED INCLUDING PRIMARILY GRAVEL, COBBLES, AND BOULDERS IN SAND MATRIX.

----- GRADATIONAL BOUNDARY BETWEEN BOTTOM TYPES

**General Notes**

1. THE UTILITIES SHOWN HEREON ARE BASED ON FIELD SURVEYS, AERIAL PHOTOGRAPHY AND RECORD DOCUMENTS. OTHER FACILITIES MAY EXIST NOT DISCOVERED THROUGH THE RECORD CHECK. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION, BOTH HORIZONTAL AND VERTICAL, OF ALL UTILITIES THROUGH THE APPROPRIATE UTILITY COMPANIES CALL BEFORE YOU DIG.
2. OCEAN SURVEY PERFORMED BY OCEAN SURVEYS, INC.
3. NOAA MLLW = 0.00'
4. TARGET DEPTH OF SUBMARINE CABLE IS 6'-0"

DENNIS E. JOHNSON  
No. 9422  
REGISTERED PROFESSIONAL ENGINEER  
ELECTRICAL

OCEAN ROUTE.dwg  
DEEPWATER WIND  
THIS DRAWING WAS PREPARED BY POWER ENGINEERING, INC. FOR A SPECIFIC PROJECT. TAKING INTO CONSIDERATION THE SPECIFIC AND UNIQUE REQUIREMENTS OF THE PROJECT, REUSE OF THIS DRAWING OR ANY INFORMATION CONTAINED IN THIS DRAWING FOR ANY PURPOSE IS PROHIBITED UNLESS WRITTEN PERMISSION FROM BOTH POWER AND POWER CLIENT IS OBTAINED.



REV	REVISIONS	DATE	DRN	DSGN	CKD	APPD	REV
C	ISSUED FOR PERMIT	05/23/2012	BWF	JJS	DEJ		
B	ISSUED FOR REVIEW	05/07/2012	BWF	JJS	DEJ		
A	ISSUED FOR REVIEW	04/12/2012	BWF	JJS	DEJ		

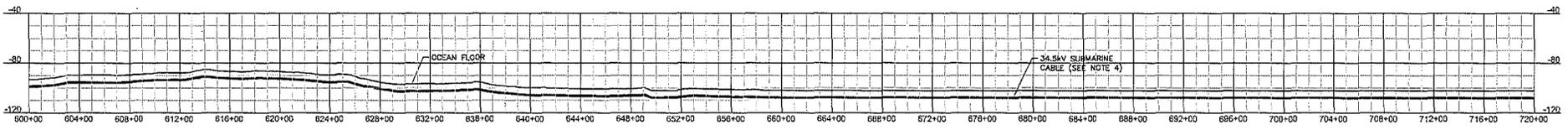
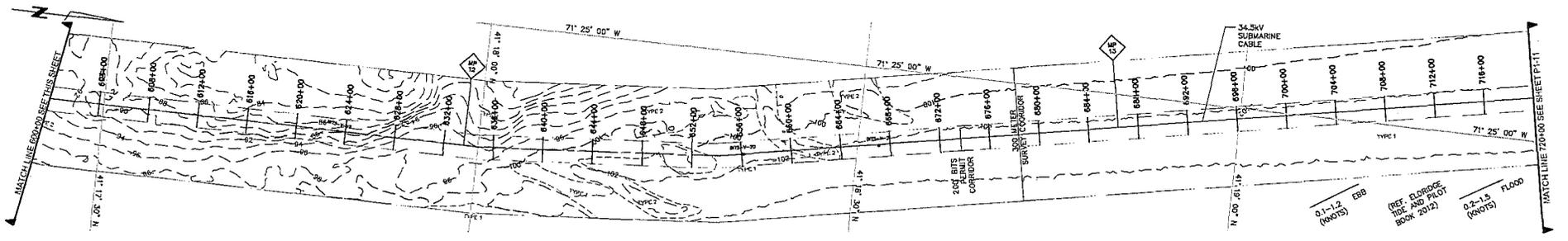
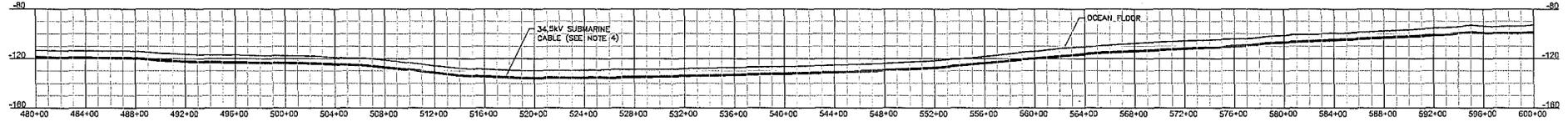
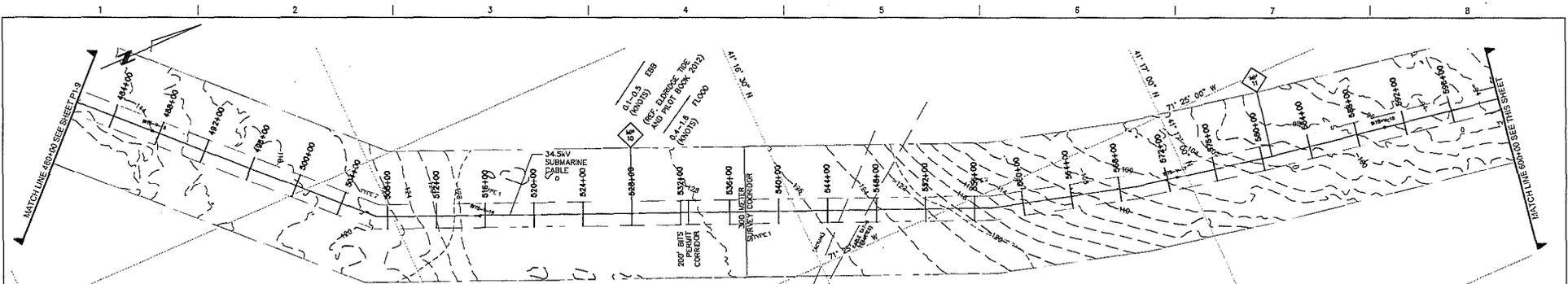
REV	REVISIONS	DATE	DRN	DSGN	CKD	APPD	REFERENCE DRAWINGS

DSGN JJS 03/16/2012  
DRN BWF 03/16/2012  
CKD DEJ 03/16/2012  
SCALE: VERT: 1" = 40'  
HORIZ: 1" = 40'  
FOR 23-34 DMC ONLY



DEEPWATER WIND  
BLOCK ISLAND TRANSMISSION, LLC  
OCEAN PLAN AND PROFILES  
34.5kV BITS UNDERGROUND ROUTE

JOB NUMBER 119831  
REV 9422  
DRAWING NUMBER P1-9



**SURFICIAL REFLECTIVITY / SEDIMENT CLASSIFICATIONS:**

**TYPE 1**

LOW REFLECTIVITY, LOW RELIEF, DRAG MARKS COMMON, INTERPRETED AS FINE GRAINED SEDIMENTS (MOSTLY SILT AND FINE SAND) WITH POSSIBLE ISOLATED BOULDERS.

**TYPE 2**

MEDIUM TO HIGH REFLECTIVITY, MODERATE RELIEF, SAND WAVES DISTINCTIVE, INTERPRETED AS MEDIUM TO COARSE GRAINED SAND AND GRAVEL, POSSIBLE ISOLATED BOULDERS.

**TYPE 3**

LOW TO HIGH REFLECTIVITY, LOW TO MODERATE RELIEF, INTERPRETED AS COMPLEX MIXTURE OF ALTERNATING BOTTOM TYPES INCLUDING FINE TO COARSE GRAINED SEDIMENTS AND BOULDERS.

**TYPE 4**

LOW TO HIGH REFLECTIVITY, MODERATE TO HIGH RELIEF, INTERPRETED AS HARD, COMPACT SEALED INCLUDING PRIMARILY GRAVEL, COBBLES, AND BOULDERS IN SAND MATRIX.

----- GRADATIONAL BOUNDARY BETWEEN BOTTOM TYPES

**General Notes**

1. THE UTILITIES SHOWN HEREON ARE BASED ON FIELD SURVEYS, AERIAL PHOTOGRAPHY AND RECORD DOCUMENTS. OTHER FACILITIES MAY EXIST NOT DISCOVERED THROUGH THE RECORD CHECK. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION, BOTH HORIZONTAL AND VERTICAL, OF ALL UTILITIES THROUGH THE APPROPRIATE UTILITY COMPANIES. CALL BEFORE YOU DIG.
2. OCEAN SURVEY PERFORMED BY OCEAN SURVEYS, INC.
3. NOAA MLLW = 0.0'
4. TARGET DEPTH OF SUBMARINE CABLE IS 8'-0"

DENNIS E. JOHNSON  
No. 0422  
REGISTERED PROFESSIONAL ENGINEER  
ELECTRICAL



REV	REVISIONS	DATE	DRN	DSGN	GKD	APPD	REV	REVISIONS	DATE	DRN	DSGN	GKD	APPD	REFERENCE DRAWINGS
C	ISSUED FOR PERMIT	05/23/2012	BWF	JUS	DEJ									
B	ISSUED FOR REVIEW	05/07/2012	BWF	JUS	DEJ									
A	ISSUED FOR REVIEW	04/12/2012	BWF	JUS	DEJ									

DSGN JUS 03/16/2012

DRN BWF 03/16/2012

CKD DEJ 03/16/2012

SCALE: VERT: 1" = 40'

HORIZ: 1" = 400'

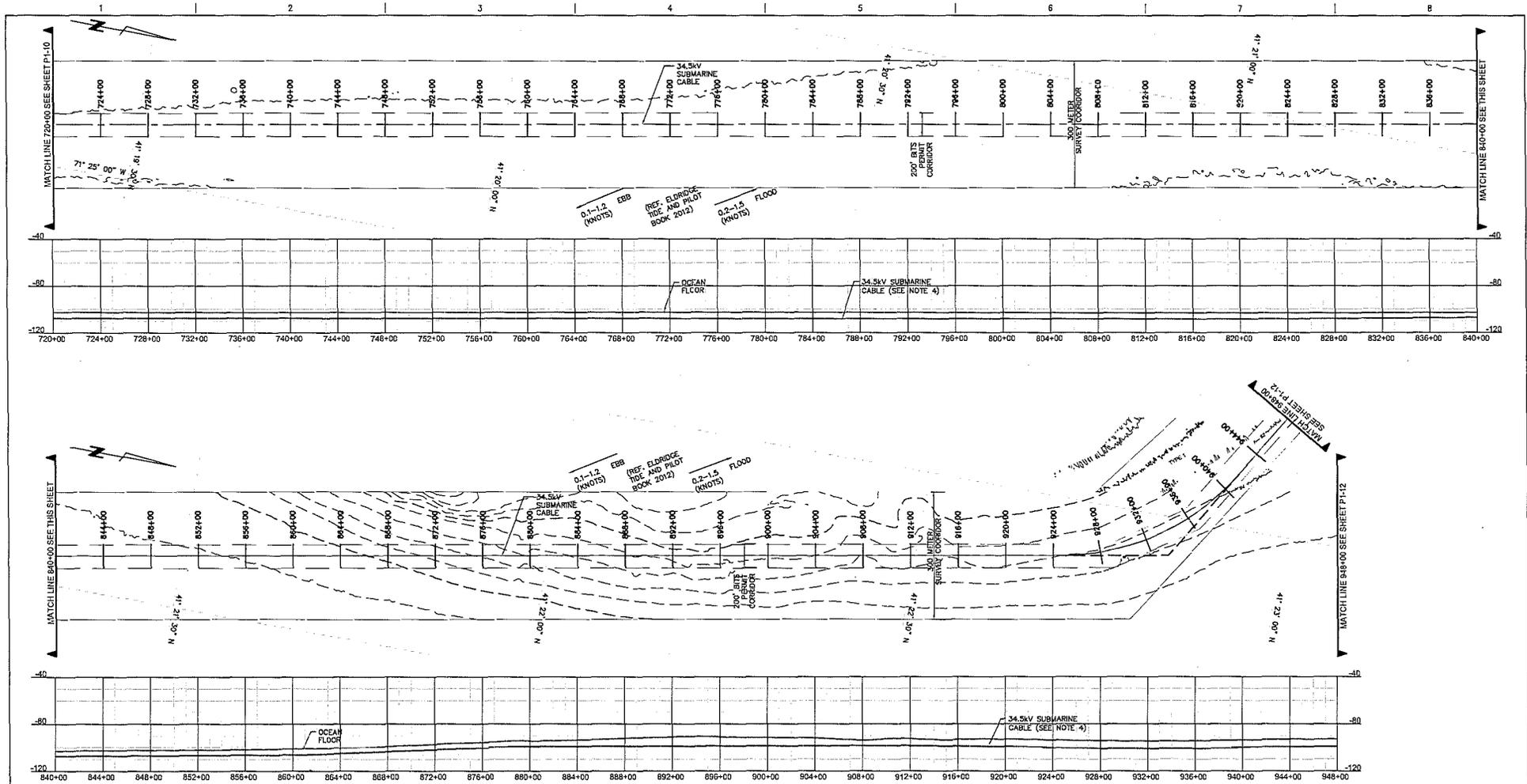
FOR 2254 DWG ONLY



DEEPWATER WIND  
BLOCK ISLAND TRANSMISSION, LLC  
OCEAN PLAN AND PROFILES  
34.5KV BITS UNDERGROUND ROUTE

JOB NUMBER  
119631  
REV  
P1-10

OCEAN ROUTE-616



**TYPE 1**

LOW REFLECTIVITY, LOW RELIEF, DRAG MARKS COMMON, INTERPRETED AS FINE GRAINED SEDIMENTS (MOSTLY SILT AND FINE SAND) WITH POSSIBLE ISOLATED BOULDERS.

**TYPE 2**

MEDIUM TO HIGH REFLECTIVITY, MODERATE RELIEF, SAND WAVES DISTINCTIVE, INTERPRETED AS MEDIUM TO COARSE GRAINED SAND AND GRAVEL, POSSIBLE ISOLATED BOULDERS.

**TYPE 3**

LOW TO HIGH REFLECTIVITY, LOW TO MODERATE RELIEF, INTERPRETED AS COMPLEX MIXTURE OF ALTERNATING BOTTOM TYPES INCLUDING FINE TO COARSE GRAINED SEDIMENTS AND BOULDERS.

**TYPE 4**

LOW TO HIGH REFLECTIVITY, MODERATE TO HIGH RELIEF, INTERPRETED AS HARD, COMPACT SEABED INCLUDING PRIMARILY GRAVEL, COBBLES, AND BOULDERS IN SAND MATRIX.

----- GRADATIONAL BOUNDARY BETWEEN BOTTOM TYPES

**General Notes**

1. THE UTILITIES SHOWN HEREON ARE BASED ON FIELD SURVEYS, AERIAL PHOTOGRAPHY AND RECORD DOCUMENTS. OTHER FACILITIES MAY EXIST NOT DISCOVERED THROUGH THE RECORD CHECK. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION, BOTH HORIZONTAL AND VERTICAL, OF ALL UTILITIES THROUGH THE APPROPRIATE UTILITY COMPANIES. CALL BEFORE YOU DIG.
2. OCEAN SURVEY PERFORMED BY OCEAN SURVEYS, INC.
3. NOAA MLLW = 0.00'
4. TARGET DEPTH OF SUBMARINE CABLE IS 6'-0"

D1 OCEAN ROUTE BITS - G1-1.dwg



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REV	REVISIONS	DATE	DRN	DSCN	CKD	APPD	REV
E	ISSUED FOR PERMIT	01/30/2014	JJS	JJS	DEJ		
D	ISSUED FOR PERMIT	08/09/2013	JJS	JJS	DEJ		
C	ISSUED FOR PERMIT	05/23/2012	BWF	JJS	DEJ		
B	ISSUED FOR REVIEW	05/07/2012	BWF	JJS	DEJ		
A	ISSUED FOR REVIEW	04/12/2012	BWF	JJS	DEJ		

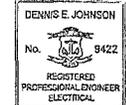
REVISIONS	DATE	DRN	DSCN	CKD	APPD	REFERENCE DRAWINGS

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DRN	BWF	03/16/2012
CKD	DEJ	03/16/2012

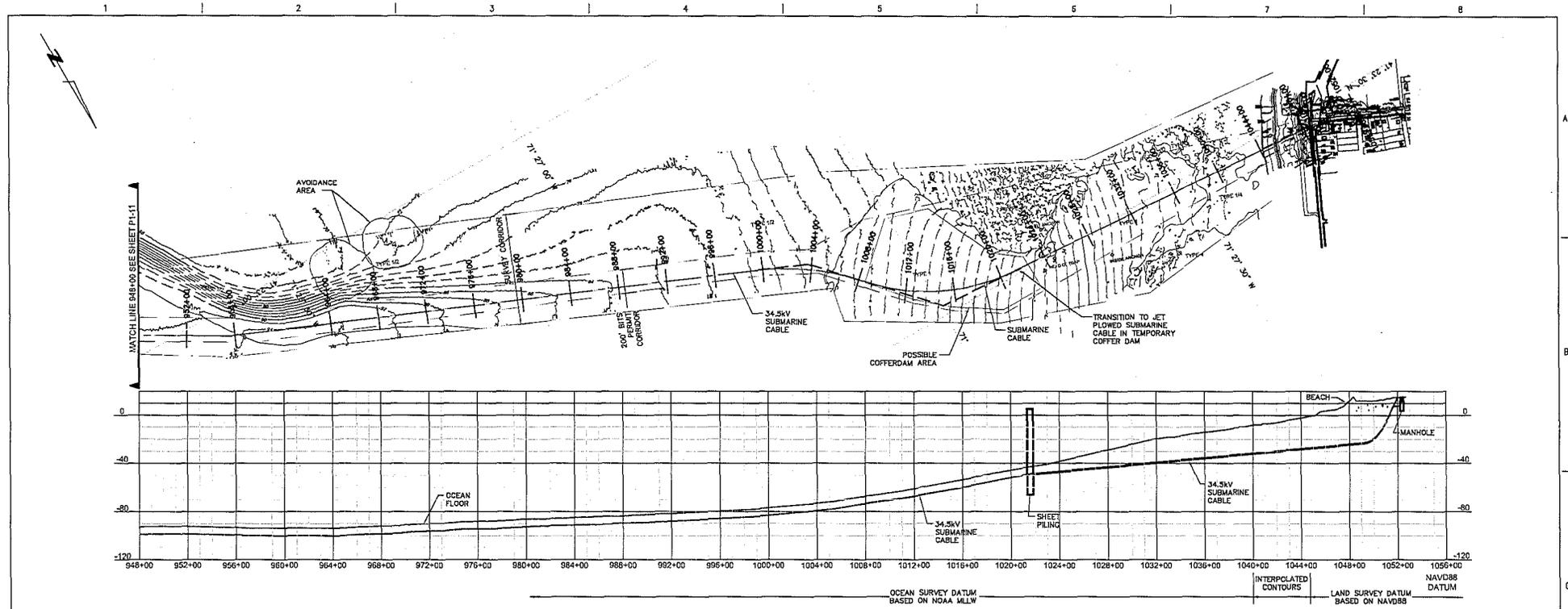
SCALE: VERT: 1" = 40'  
HORIZ: 1" = 400'  
FOR 22x34 DWG ONLY



DEEPWATER WIND  
BLOCK ISLAND TRANSMISSION, LLC  
OCEAN PLAN AND PROFILES  
34.5KV BITS UNDERGROUND ROUTE



JOB NUMBER	REV	DRAWING NUMBER
119831		P1-11

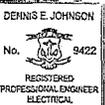


**SURFICIAL REFLECTIVITY / SEDIMENT CLASSIFICATIONS:**

- TYPE 1**  
 LOW REFLECTIVITY, LOW RELIEF, DRAG MARKS COMMON, INTERPRETED AS FINE GRAINED SEDIMENTS (MOSTLY SILT AND FINE SAND) WITH POSSIBLE ISOLATED BOULDERS.
- TYPE 2**  
 MEDIUM TO HIGH REFLECTIVITY, MODERATE RELIEF, SAND WAVES DISTINCTIVE, INTERPRETED AS MEDIUM TO COARSE GRAINED SAND AND GRAVEL, POSSIBLE ISOLATED BOULDERS.
- TYPE 3**  
 LOW TO HIGH REFLECTIVITY, LOW TO MODERATE RELIEF, INTERPRETED AS COMPLEX MIXTURE OF ALTERNATING BOTTOM TYPES INCLUDING FINE TO COARSE GRAINED SEDIMENTS AND BOULDERS.
- TYPE 4**  
 LOW TO HIGH REFLECTIVITY, MODERATE TO HIGH RELIEF, INTERPRETED AS HARD, COMPACT SEA BED INCLUDING PRIMARILY GRAVEL, COBBLES, AND BOULDERS IN SAND MATRIX.
- GRADATIONAL BOUNDARY BETWEEN BOTTOM TYPES

**General Notes**

1. THE UTILITIES SHOWN HEREON ARE BASED ON FIELD SURVEYS, AERIAL PHOTOGRAPHY AND RECORD DOCUMENTS. OTHER FACILITIES MAY EXIST NOT DISCOVERED THROUGH THE RECORD CHECK. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION, BOTH HORIZONTAL AND VERTICAL, OF ALL UTILITIES THROUGH THE APPROPRIATE UTILITY COMPANIES. CALL BEFORE YOU DIG.
2. OCEAN SURVEY PERFORMED BY OCEAN SURVEYS, INC.
3. NOAA MLLW = 0.00'
4. TARGET DEPTH OF SUBMARINE CABLE IS 6'-0"



01 OCEAN ROUTE BITS - G1-1.dwg



THIS DRAWING WAS PREPARED BY POWER ENGINEERS, INC. FOR A SPECIFIC PROJECT. TAKING INTO CONSIDERATION THE SPECIFIC AND UNIQUE REQUIREMENTS OF THE PROJECT, NONE OF THIS DRAWING OR ANY INFORMATION CONTAINED IN THIS DRAWING FOR ANY PURPOSE IS PRINTED UNLESS WRITTEN OTHERWISE FROM BOTH POWER AND POWER'S CLIENT'S DRAWER.

REV	REVISIONS	DATE	DRN	DSGN	CKD	APPD	REV	REVISIONS	DATE	DRN	DSGN	CKD	APPD	REFERENCE DRAWINGS
							E	ISSUED FOR PERMIT	01/30/2014	JJS	JJS	DEJ		
							D	ISSUED FOR PERMIT	08/08/2013	JJS	JJS	DEJ		
							C	ISSUED FOR PERMIT	05/23/2012	BWF	JJS	DEJ		
							B	ISSUED FOR REVIEW	05/07/2012	BWF	JJS	DEJ		
							A	ISSUED FOR REVIEW	04/12/2012	BWF	JJS	DEJ		

DSGN	JJS	03/16/2012
DRN	BWF	03/16/2012
CKD	DEJ	03/16/2012

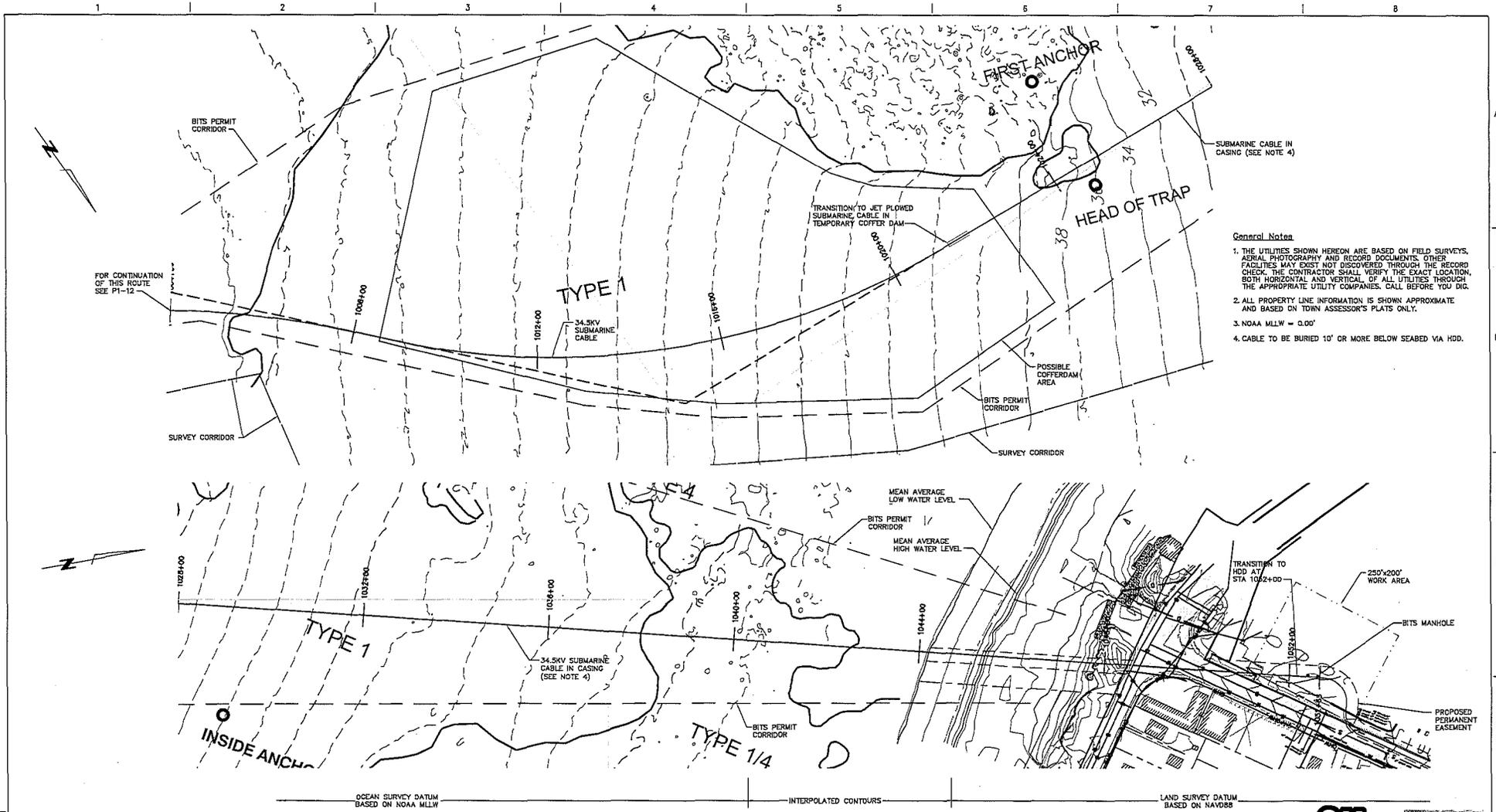
SCALE: VERT: 1" = 40'  
 HORIZ: 1" = 40'  
 FOR 2204 DWG ONLY



DEEPWATER WIND  
 BLOCK ISLAND TRANSMISSION, LLC

OCEAN PLAN AND PROFILES  
 34.5KV BITS UNDERGROUND ROUTE

JOB NUMBER	REV	DRAWING NUMBER
119831		P1-12



- General Notes**
1. THE UTILITIES SHOWN HEREON ARE BASED ON FIELD SURVEYS, AERIAL PHOTOGRAPHY AND RECORD DOCUMENTS. OTHER FACILITIES MAY EXIST NOT DISCOVERED THROUGH THE RECORD CHECK. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION, BOTH HORIZONTAL AND VERTICAL, OF ALL UTILITIES THROUGH THE APPROPRIATE UTILITY COMPANIES. CALL BEFORE YOU DIG.
  2. ALL PROPERTY LINE INFORMATION IS SHOWN APPROXIMATE AND BASED ON TOWN ASSESSOR'S PLATS ONLY.
  3. NOAA MLLW = 0.00'
  4. CABLE TO BE BURIED 10' OR MORE BELOW SEABED VIA HDD.

01 OCEAN ROUTE BITS- GI-1.dwg



**811**  
Know what's below.  
Call before you dig.

DENNIS E. JOHNSON  
No. 9422  
REGISTERED PROFESSIONAL ENGINEER  
ELECTRICAL

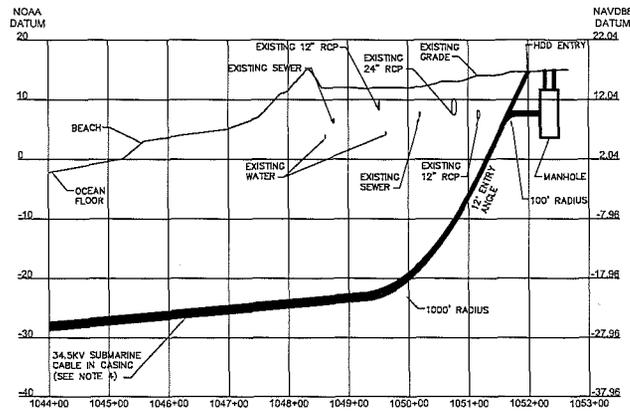
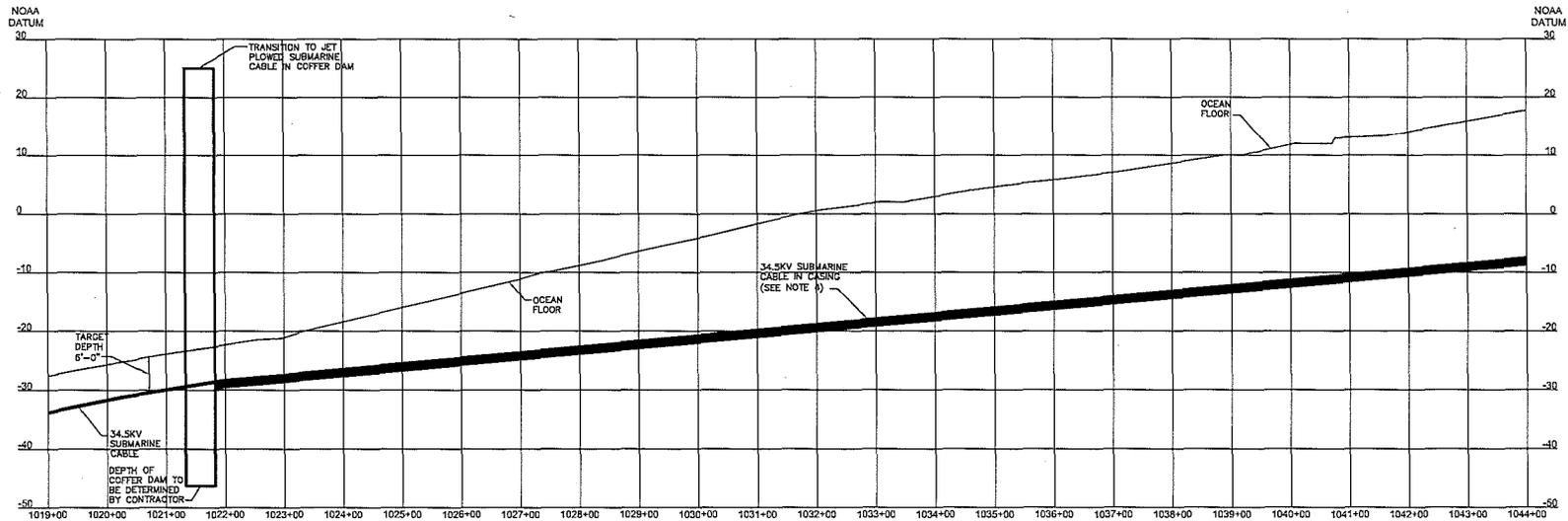
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J	ISSUED FOR PERMIT	01/30/2014	JJS	JJS	DEJ		E	ISSUED FOR REVIEW	04/12/2012	JJS	JJS	TBB			DSGN	JJS	03/09/2012		
I	ISSUED FOR PERMIT	08/08/2013	JJS	JJS	DEJ		D	ISSUED FOR REVIEW	04/04/2012	JJS	JJS	TBB			DRN	BWF	03/09/2012		
H	REVISED BEACH LANDING	07/22/2013	JJS	JJS	DEJ		C	ISSUED FOR REVIEW	03/30/2012	BWF	JJS	DEJ			CKD	DEJ	03/09/2012		
G	ISSUED FOR PERMIT	05/23/2012	BWF	JJS	DEJ		B	ISSUED FOR REVIEW	03/26/2012	BWF	JJS	DEJ							
F	ISSUED FOR REVIEW	05/07/2012	BWF	JJS	TBB		A	ISSUED FOR REVIEW	03/21/2012	BWF	JJS	DEJ							



DEEPWATER WIND  
BLOCK ISLAND TRANSMISSION, LLC  
JOB NUMBER 119631

OCEAN PLAN AND PROFILES  
34.5KV BITS UNDERGROUND ROUTE  
DRAWING NUMBER P1-13

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8

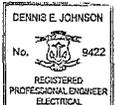


**General Notes**

1. THE UTILITIES SHOWN HEREIN ARE BASED ON FIELD SURVEYS, AERIAL PHOTOGRAPHY AND RECORD DOCUMENTS. OTHER FACILITIES MAY EXIST NOT DISCOVERED THROUGH THE RECORD CHECK. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION, BOTH HORIZONTAL AND VERTICAL, OF ALL UTILITIES THROUGH THE APPROPRIATE UTILITY COMPANIES CALL BEFORE YOU DIG.
2. ALL PROPERTY LINE INFORMATION IS SHOWN APPROXIMATE AND BASED ON TOWN ASSESSOR'S PLATS ONLY.
3. NOAA MLLW = 0.00'
4. CABLE TO BE BURIED 10' OR MORE BELOW SEALED VIA HDD.



Know what's below.  
Call before you dig.



01 OCEAN ROUTE BITS- G1-1.dwg



REV	REVISIONS	DATE	DRN	DSGN	CKD	APPD	REV	REVISIONS	DATE	DRN	DSGN	CKD	APPD	REFERENCE DRAWINGS
I	ISSUED FOR PERMIT	01/30/2014	JJS	JJS	DEJ		E	ISSUED FOR REVIEW	04/12/2012	JJS	JJS	TBB		
H	ISSUED FOR PERMIT	08/08/2013	JJS	JJS	DEJ		D	ISSUED FOR REVIEW	04/04/2012	JJS	JJS	TBB		
G	ISSUED FOR PERMIT	05/23/2012	BWF	JJS	DEJ		C	ISSUED FOR REVIEW	03/30/2012	BWF	JJS	DEJ		
F	ISSUED FOR REVIEW	05/07/2012	JJS	JJS	TBB		B	ISSUED FOR REVIEW	03/26/2012	BWF	JJS	DEJ		
							A	ISSUED FOR REVIEW	03/21/2012	BWF	JJS	DEJ		

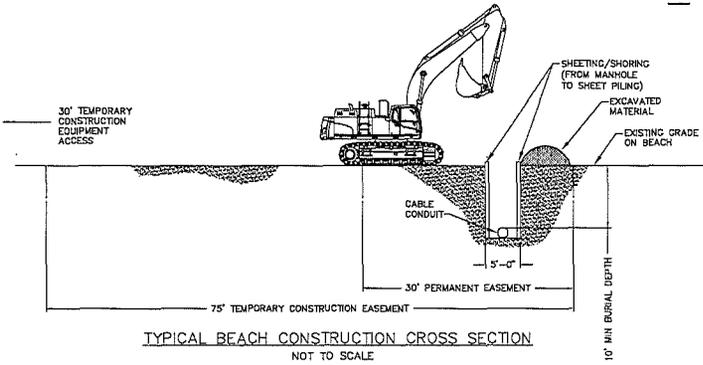
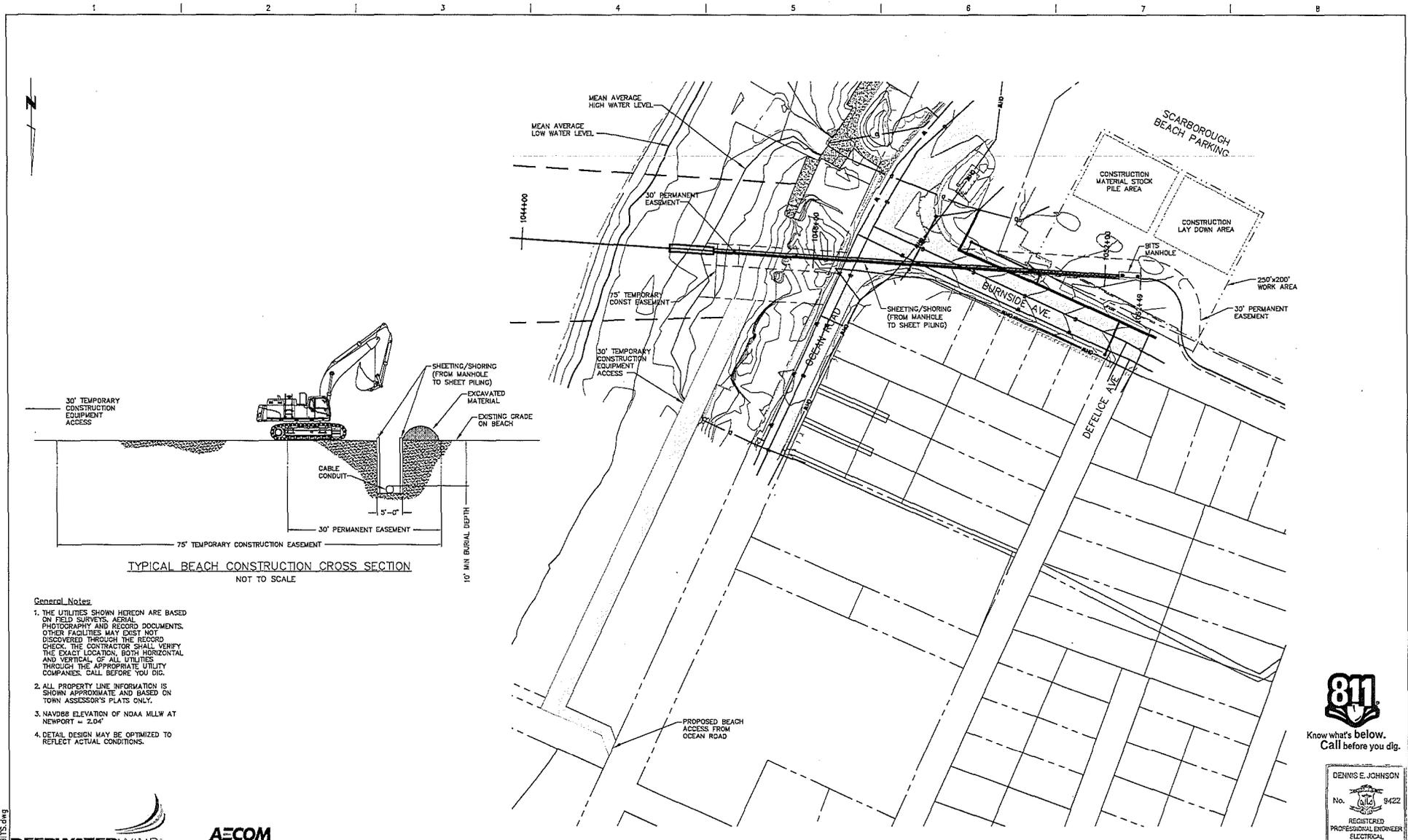
DSGN	JJS	03/21/2012
DRN	BWF	03/21/2012
CKD	DEJ	03/21/2012



DEEPWATER WIND  
BLOCK ISLAND TRANSMISSION, LLC  
OCEAN PLAN AND PROFILES  
34.5KV BITS UNDERGROUND ROUTE

JOB NUMBER	REV
119631	
DRAWING NUMBER	
P1-13A	

SCALE: HORIZ: 1" = 100'  
VERT: 1" = 10'  
FOR 22-34 DWG ONLY



- General Notes**
1. THE UTILITIES SHOWN HEREON ARE BASED ON FIELD SURVEYS, AERIAL PHOTOGRAPHY AND RECORD DOCUMENTS. OTHER FACILITIES MAY EXIST NOT DISCOVERED THROUGH THE RECORD CHECK. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION, BOTH HORIZONTAL AND VERTICAL, OF ALL UTILITIES THROUGH THE APPROPRIATE UTILITY COMPANIES' CALL BEFORE YOU DIG.
  2. ALL PROPERTY LINE INFORMATION IS SHOWN APPROXIMATE AND BASED ON TOWN ASSESSOR'S PLATS ONLY.
  3. NAVD88 ELEVATION OF NOAA MLW AT NEWPORT = 2.04'
  4. DETAIL DESIGN MAY BE OPTIMIZED TO REFLECT ACTUAL CONDITIONS.



DENNIS E. JOHNSON  
 No. 8422  
 REGISTERED PROFESSIONAL ENGINEER ELECTRICAL

DEEPWATER WIND AECOM

THIS DRAWING WAS PREPARED BY POWER ENGINEERS, INC. FOR A SPECIFIC PROJECT. TAKING INTO CONSIDERATION THE SPECIFIC AND UNIQUE REQUIREMENTS OF THE PROJECT, REUSE OF THIS DRAWING OR ANY INFORMATION CONTAINED IN THIS DRAWING FOR ANY PURPOSE IS PROHIBITED UNLESS WRITTEN PERMISSION FROM BOTH POWER AND POWER'S CLIENT IS OBTAINED.

REV	REVISIONS	DATE	DRN	DSGN	CKD	APPD	REV	REVISIONS	DATE	DRN	DSGN	CKD	APPD	REFERENCE DRAWINGS
							B	ISSUED FOR PERMIT	08/08/2013	JJS	JJS	DEJ		
							A	ISSUED FOR REVIEW	07/30/2013	BWF	JJS	DEJ		

DSGN	JJS	07/30/2013
DRN	BWF	07/30/2013
CKD	DEJ	07/30/2013

SCALE: 1" = 40'

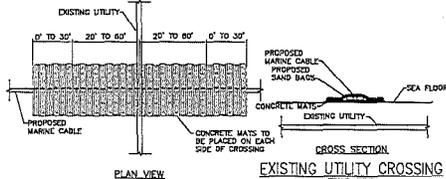
FOR 25-34 DWG ONLY



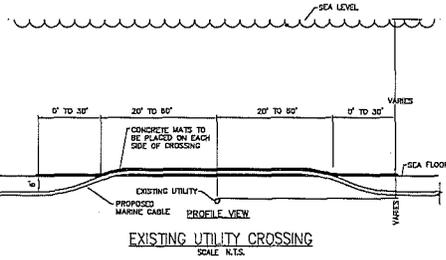
DEEPWATER WIND  
 BLOCK ISLAND TRANSMISSION, LLC  
 OCEAN PLAN AND PROFILES  
 34.5KV BITS UNDERGROUND ROUTE

JOB NUMBER	REV
119631	A
DRAWING NUMBER	
P1-14	

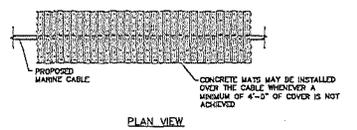
OCEAN ROUTE BITS.dwg



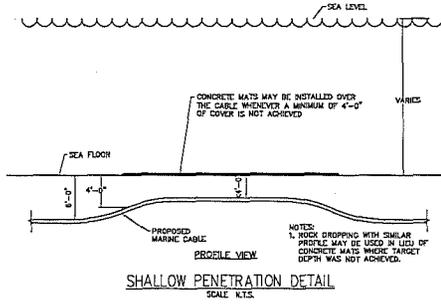
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SCALE N.T.S.



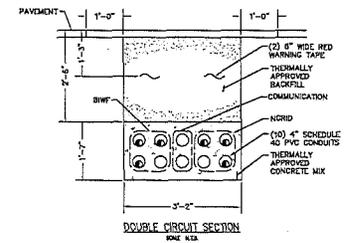
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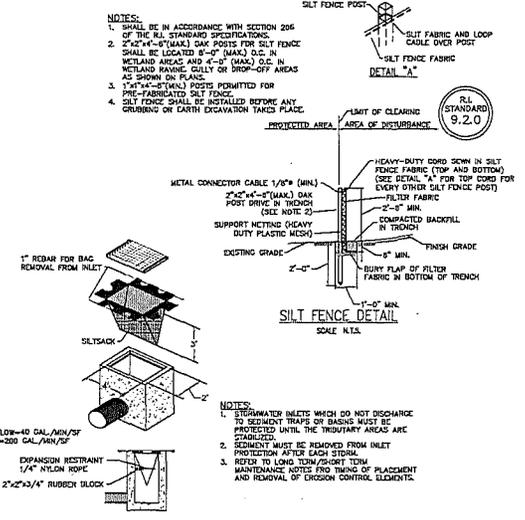
PLAN VIEW  
SCALE N.T.S.



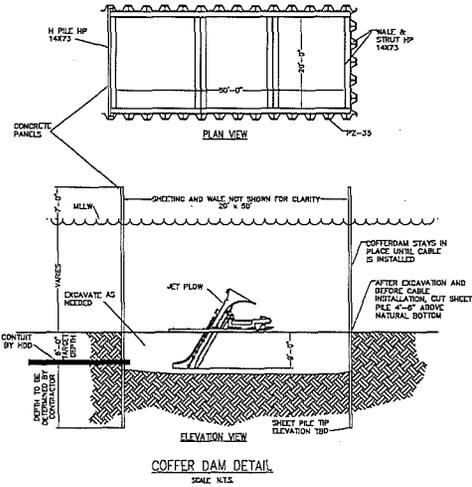
SHALLOW PENETRATION DETAIL  
SCALE N.T.S.



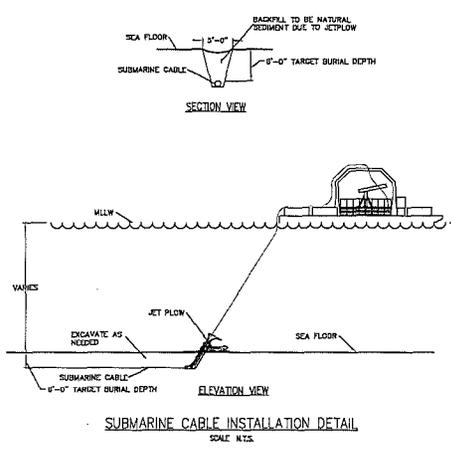
DOUBLE CIRCUIT SECTION  
SCALE N.T.S.



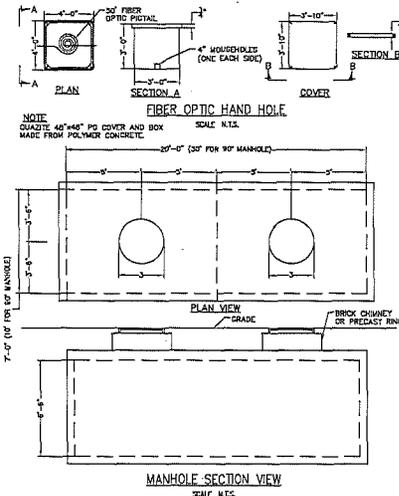
SILT FENCE DETAIL  
SCALE N.T.S.



COFFER DAM DETAIL  
SCALE N.T.S.



SUBMARINE CABLE INSTALLATION DETAIL  
SCALE N.T.S.



MANHOLE SECTION VIEW  
SCALE N.T.S.



REV	REVISIONS	DATE	DRN	DSGN	CHKD	APPD	REFERENCE DRAWINGS
E	ISSUED FOR PERMIT	08/09/2013	JJS	JJS	DEJ		
D	ISSUED FOR PERMIT	05/31/2013	JJS	JJS	DEJ		
C	ISSUED FOR PERMIT	05/23/2012	BWF	JJS	DEJ		
B	ISSUED FOR REVIEW	05/07/2012	BWF	JJS	DEJ		
A	ISSUED FOR REVIEW	04/20/2012	JJS	JJS	DEJ		

DSGN	JJS	04/20/2012
DRN	JJS	04/20/2012
CHKD	DEJ	04/23/2012
SCALE:	N. T.S.	
FOR 22-23A DWG ONLY		



DEEPWATER WIND  
BLOCK ISLAND TRANSMISSION, LLC  
BLOCK ISLAND DETAIL SHEET  
34.5KV BITS UNDERGROUND ROUTE

DENNIS E. JOHNSON  
No. 9422  
REGISTERED PROFESSIONAL ENGINEER ELECTRICAL  
JOB NUMBER 119631  
REV  
DRAWING NUMBER U3-1

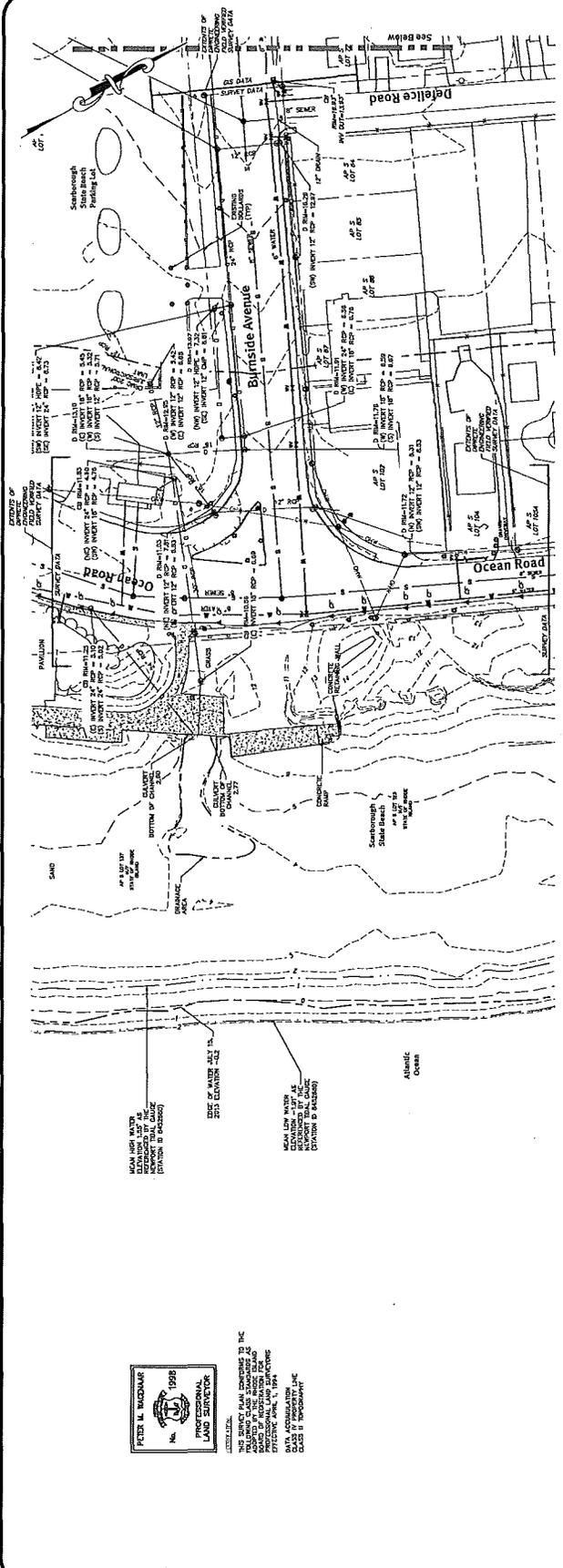
U3-1 DETAIL SHEETS.dwg







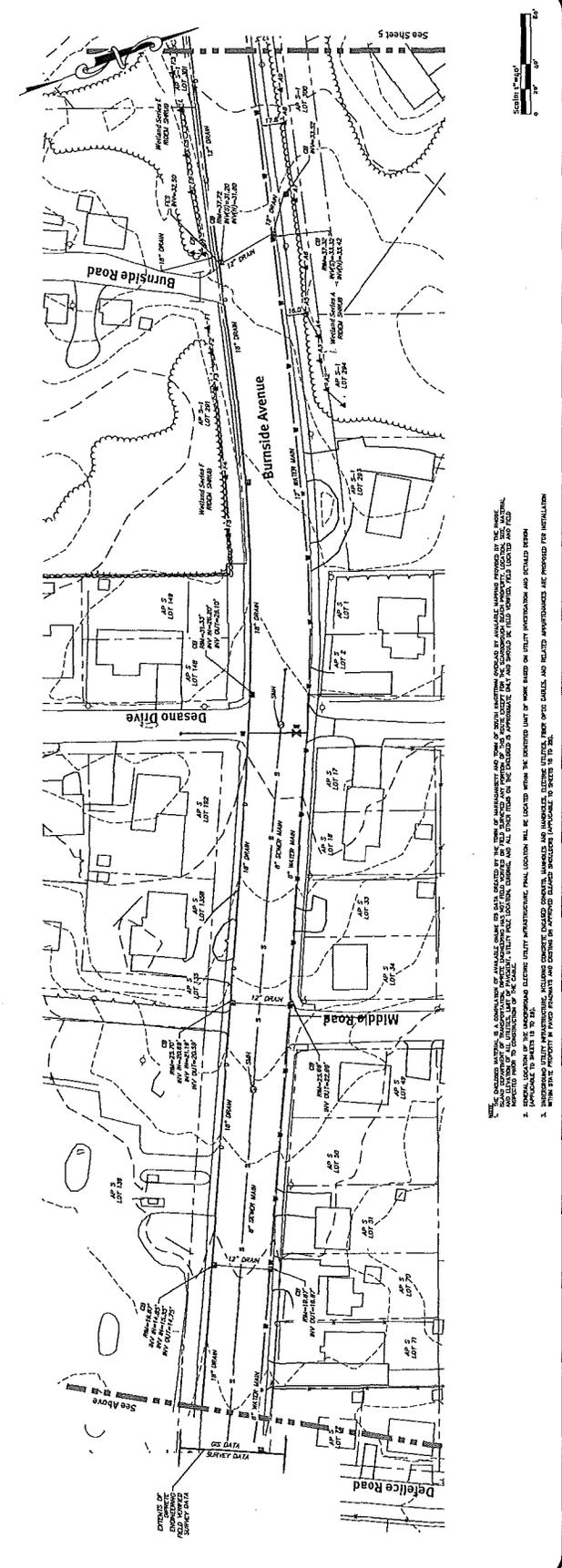




**PETER W. WICKHAM**  
 No. 1985  
 PROFESSIONAL  
 LAND SURVEYOR

THIS SURVEY PLAN EXTENDING TO THE BOUNDARIES OF THE PROPERTY IS A TRUE AND CORRECT COPY OF THE ORIGINAL SURVEY PLAN AS APPROVED BY THE STATE OF CALIFORNIA PROFESSIONAL LAND SURVEYING BOARD, SAN FRANCISCO, CALIFORNIA, ON FEBRUARY 11, 1994.

NO.	DESCRIPTION	DATE
1	PRELIMINARY PLAN	12/15/93
2	FINAL PLAN	02/11/94
3	AS BUILT	02/11/94
4	AS BUILT	02/11/94
5	AS BUILT	02/11/94
6	AS BUILT	02/11/94
7	AS BUILT	02/11/94
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10	AS BUILT	02/11/94



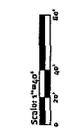
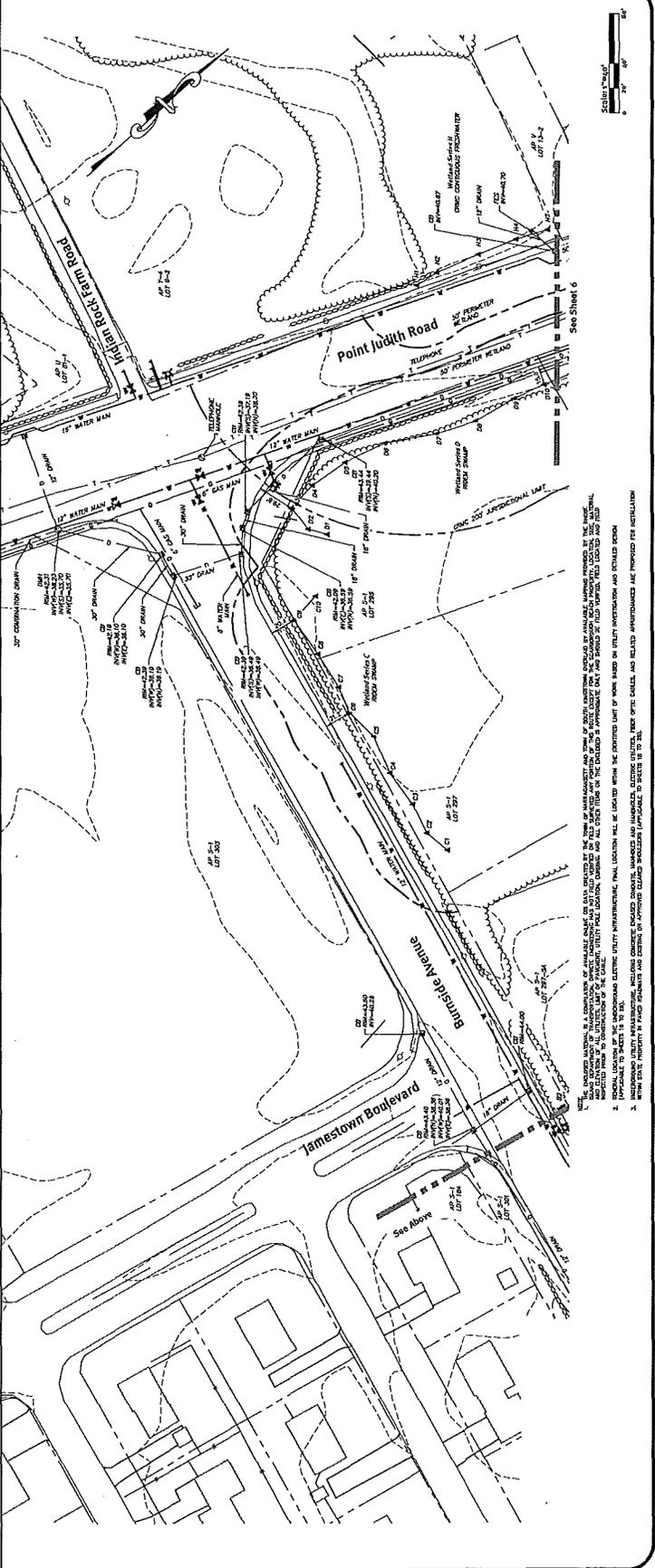
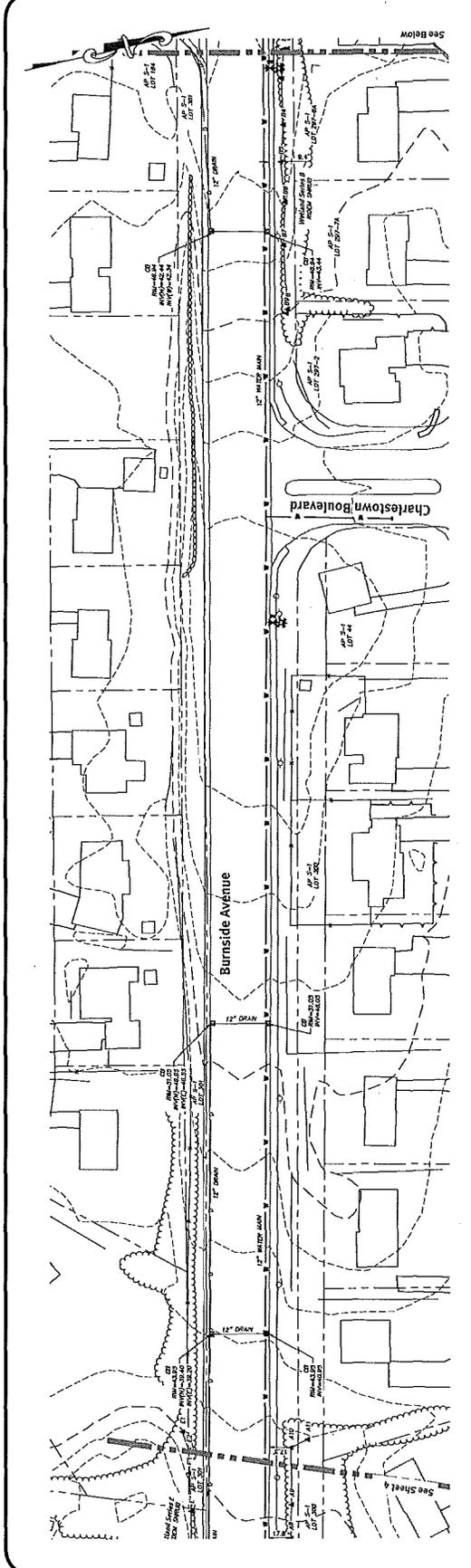
**PETER W. WICKHAM**  
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 PROFESSIONAL  
 LAND SURVEYOR

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THE ENGINEER HAS A COPY OF AVAILABLE DATA ON FILE IN HIS OFFICE AND HAS REVIEWED THE SAME. THE ENGINEER HAS CONDUCTED VISUAL INSPECTIONS OF THE PROJECT AREA AND HAS FOUND THE DATA TO BE SUFFICIENT FOR THE PURPOSES OF THIS PLAN. THE ENGINEER HAS CONDUCTED VISUAL INSPECTIONS OF THE PROJECT AREA AND HAS FOUND THE DATA TO BE SUFFICIENT FOR THE PURPOSES OF THIS PLAN. THE ENGINEER HAS CONDUCTED VISUAL INSPECTIONS OF THE PROJECT AREA AND HAS FOUND THE DATA TO BE SUFFICIENT FOR THE PURPOSES OF THIS PLAN.



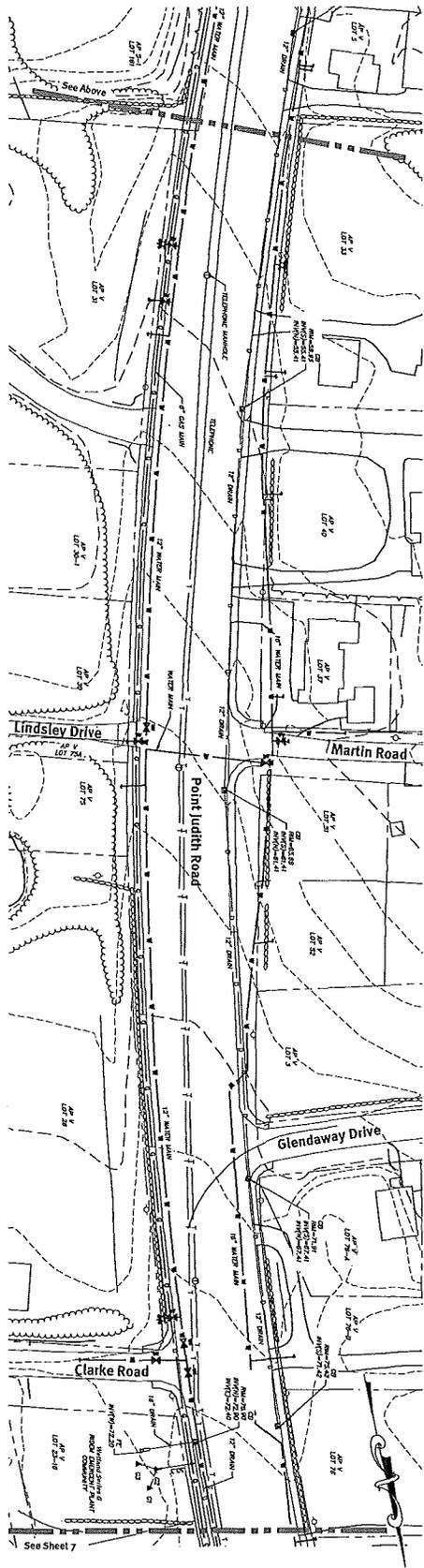
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4	04/15/11	REVISED
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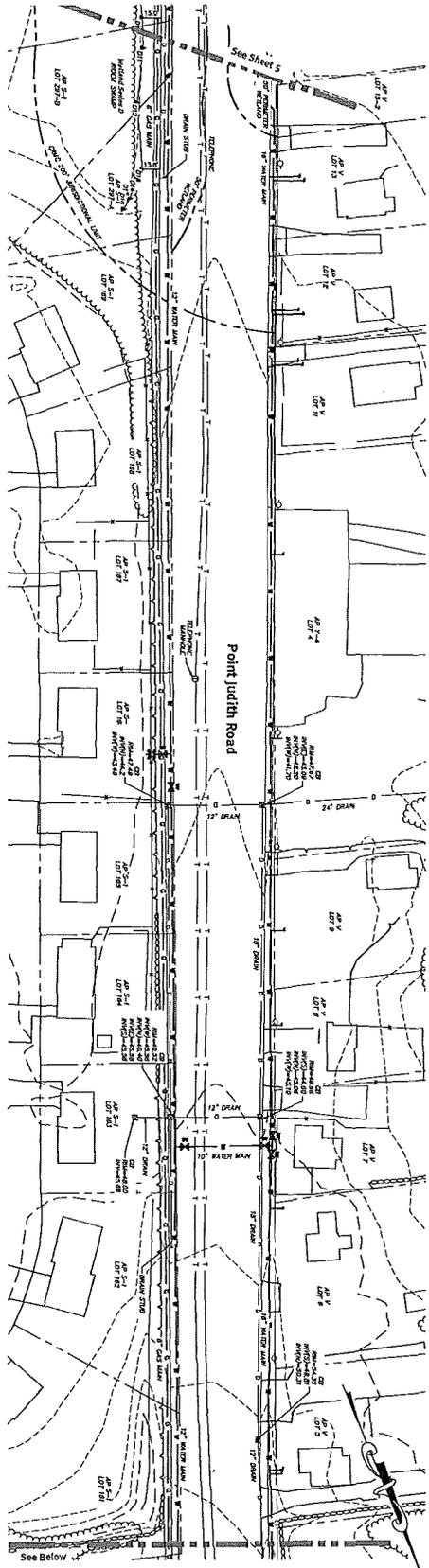
1. THE INFORMATION IS A CONSULTING ENGINEER'S DESIGN AND IS NOT TO BE USED FOR ANY OTHER PURPOSES WITHOUT THE WRITTEN CONSENT OF THE CONSULTING ENGINEER. THE CONSULTING ENGINEER'S DESIGN IS BASED ON THE INFORMATION PROVIDED TO HIM BY THE CLIENT AND IS NOT TO BE USED FOR ANY OTHER PURPOSES WITHOUT THE WRITTEN CONSENT OF THE CONSULTING ENGINEER. THE CONSULTING ENGINEER'S DESIGN IS NOT TO BE USED FOR ANY OTHER PURPOSES WITHOUT THE WRITTEN CONSENT OF THE CONSULTING ENGINEER.

2. FEDERAL, STATE, AND LOCAL REGULATIONS, ORDINANCES, AND CODES SHALL BE OBSERVED IN THE DESIGN AND CONSTRUCTION OF THE PROJECT. THE CONSULTING ENGINEER'S DESIGN IS NOT TO BE USED FOR ANY OTHER PURPOSES WITHOUT THE WRITTEN CONSENT OF THE CONSULTING ENGINEER.

3. THE CONSULTING ENGINEER'S DESIGN IS NOT TO BE USED FOR ANY OTHER PURPOSES WITHOUT THE WRITTEN CONSENT OF THE CONSULTING ENGINEER.



1. THE DESIGNER HAS CONDUCTED VISUAL INSPECTIONS OF THE SITE AND HAS REVIEWED ALL AVAILABLE RECORD DRAWINGS AND SURVEY DATA. THE DESIGNER HAS CONDUCTED VISUAL INSPECTIONS OF THE SITE AND HAS REVIEWED ALL AVAILABLE RECORD DRAWINGS AND SURVEY DATA. THE DESIGNER HAS CONDUCTED VISUAL INSPECTIONS OF THE SITE AND HAS REVIEWED ALL AVAILABLE RECORD DRAWINGS AND SURVEY DATA.



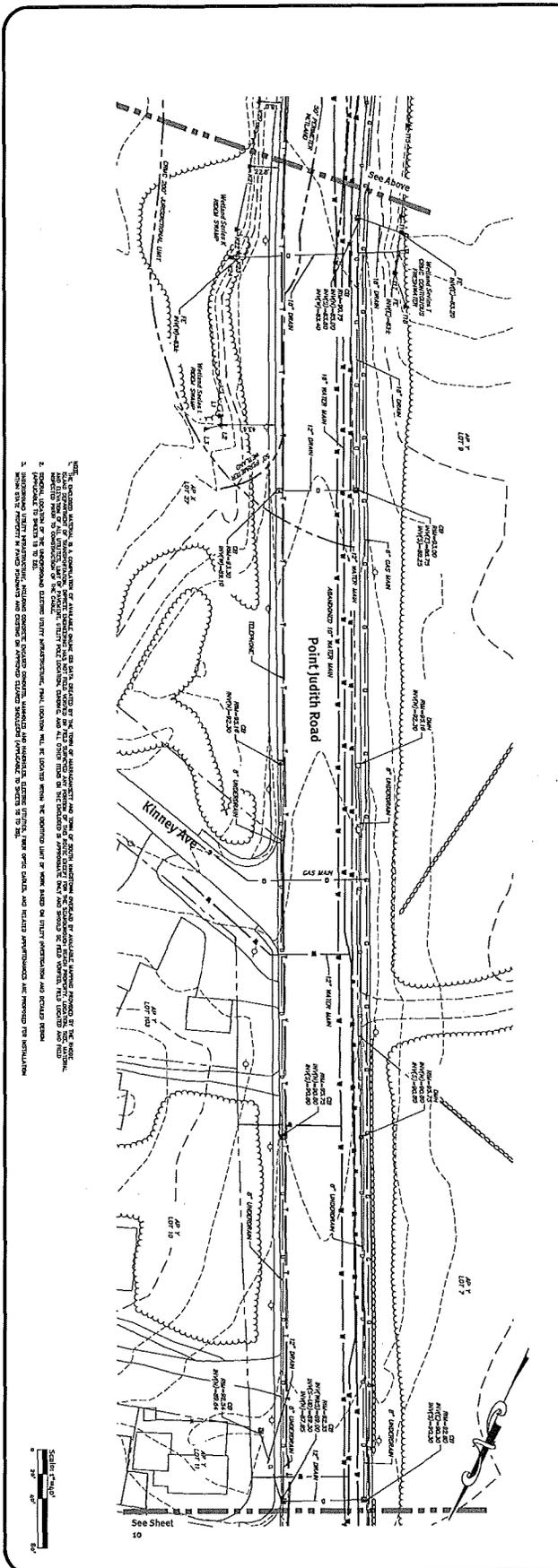
**Existing Conditions - 3**  
**Deepwater Wind Block Island**  
**Transmission, LLC**  
 Deepwater Wind  
 141 Clark Street, Westerly, RI 02891  
 Project No. 13-001

Author	W. J. M. M.	11/20/2013	
Checker	W. J. M. M.	11/20/2013	
Designer	W. J. M. M.	11/20/2013	
Drawn	W. J. M. M.	11/20/2013	
Scale	As Shown		
Sheet	3 of 3		
Drawn By	J.A.O.	Checked By	B.C.C.

**DIPrete Engineering**  
 Two Shattuck Court, Cranston, RI 02910  
 Tel: 401-943-1300 Fax: 401-943-6666 www.diprete-eng.com  
 Engineers • Planners • Surveyors



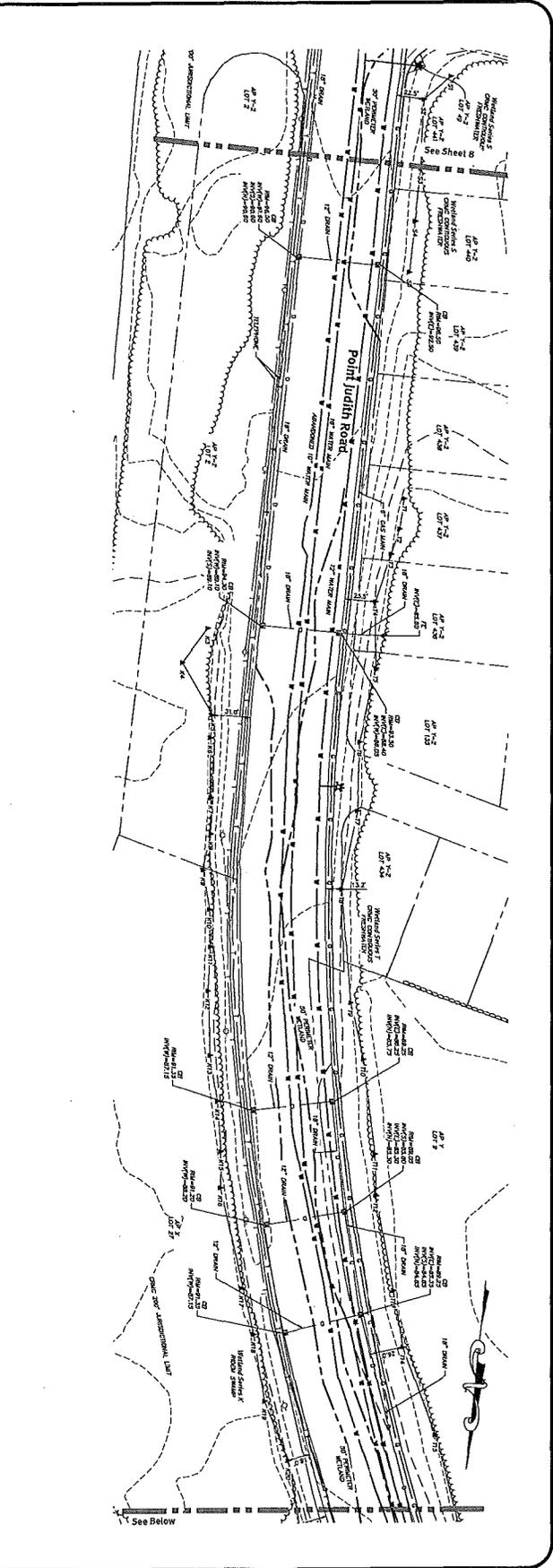




1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES AND AGENCIES OF THE STATE OF DELAWARE, INCLUDING BUT NOT LIMITED TO THE DELAWARE DEPARTMENT OF TRANSPORTATION AND THE DELAWARE DEPARTMENT OF ENVIRONMENTAL CONTROL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES AND AGENCIES OF THE STATE OF DELAWARE, INCLUDING BUT NOT LIMITED TO THE DELAWARE DEPARTMENT OF TRANSPORTATION AND THE DELAWARE DEPARTMENT OF ENVIRONMENTAL CONTROL.

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**Existing Conditions - 6**  
**Deepwater Wind Block Island**  
**Transmission, LLC**  
 15500 Highway 100, P.O. Box 100  
 Deepwater Wind  
 15500 Highway 100  
 P.O. Box 100

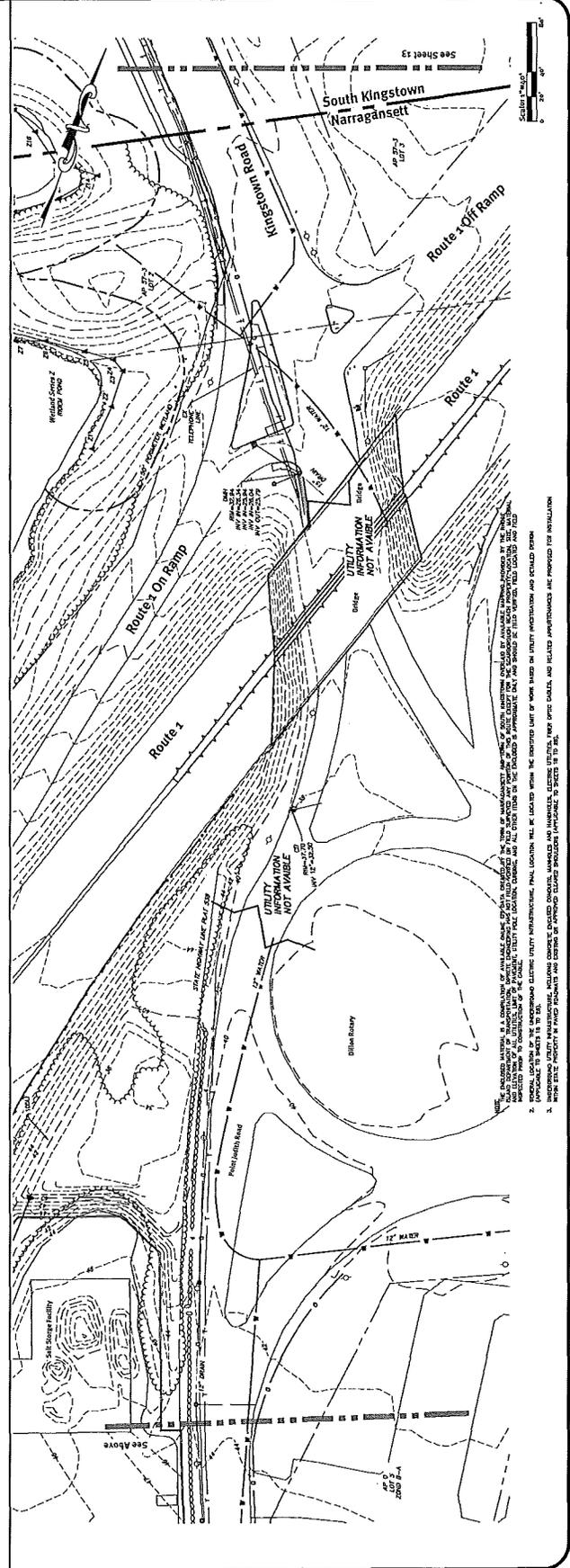
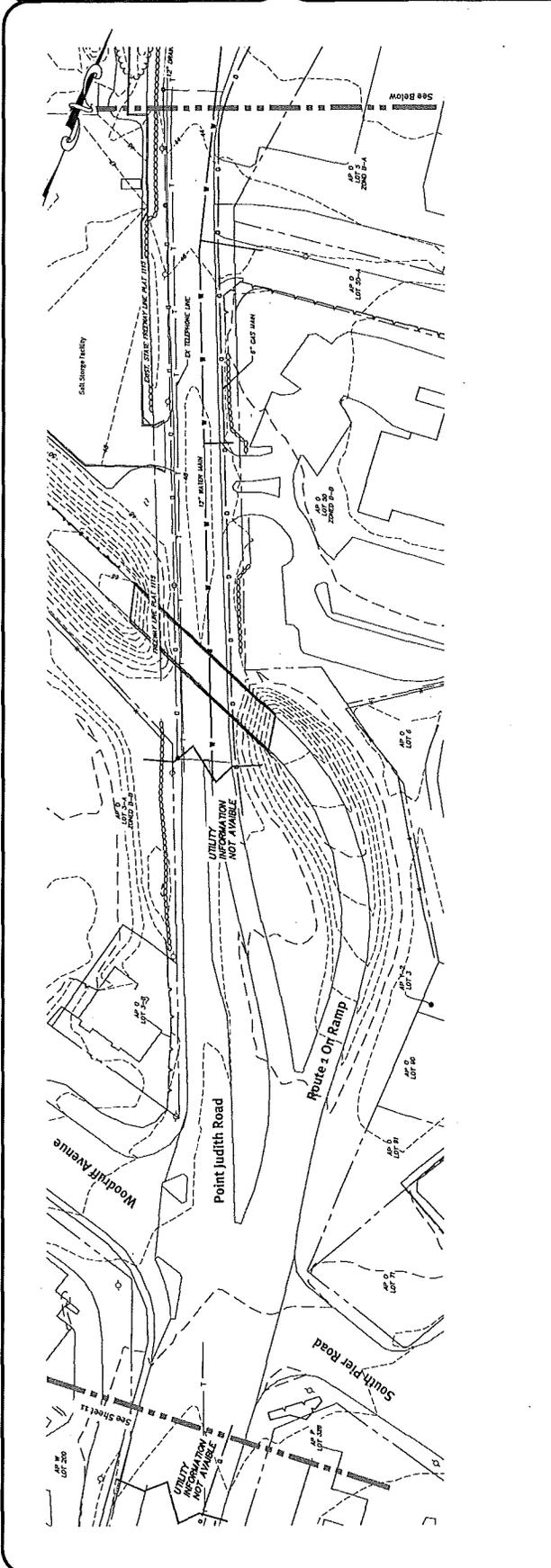
**DiPrete Engineering**  
 The South Coast Corridor, P.O. Box 100  
 15500 Highway 100, P.O. Box 100

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NO.	DATE	DESCRIPTION
1	11/11/2011	ISSUED FOR PERMIT
2	11/11/2011	ISSUED FOR PERMIT
3	11/11/2011	ISSUED FOR PERMIT
4	11/11/2011	ISSUED FOR PERMIT
5	11/11/2011	ISSUED FOR PERMIT
6	11/11/2011	ISSUED FOR PERMIT
7	11/11/2011	ISSUED FOR PERMIT
8	11/11/2011	ISSUED FOR PERMIT
9	11/11/2011	ISSUED FOR PERMIT
10	11/11/2011	ISSUED FOR PERMIT
11	11/11/2011	ISSUED FOR PERMIT
12	11/11/2011	ISSUED FOR PERMIT



1. THIS DRAWING IS A COMPILED OF AVAILABLE DATA INCLUDING: AERIAL PHOTOGRAPHS, FIELD SURVEY DATA, AND OTHER INFORMATION PROVIDED BY THE CLIENT. THE CLIENT IS RESPONSIBLE FOR THE ACCURACY OF THE DATA PROVIDED. THE ENGINEER HAS CONDUCTED VISUAL INSPECTIONS OF THE PROJECT AREA AND HAS FOUND THE DATA TO BE REASONABLY ACCURATE. THE ENGINEER HAS CONDUCTED VISUAL INSPECTIONS OF THE PROJECT AREA AND HAS FOUND THE DATA TO BE REASONABLY ACCURATE. THE ENGINEER HAS CONDUCTED VISUAL INSPECTIONS OF THE PROJECT AREA AND HAS FOUND THE DATA TO BE REASONABLY ACCURATE.

2. GENERAL NOTES: THE ENGINEER HAS CONDUCTED VISUAL INSPECTIONS OF THE PROJECT AREA AND HAS FOUND THE DATA TO BE REASONABLY ACCURATE. THE ENGINEER HAS CONDUCTED VISUAL INSPECTIONS OF THE PROJECT AREA AND HAS FOUND THE DATA TO BE REASONABLY ACCURATE. THE ENGINEER HAS CONDUCTED VISUAL INSPECTIONS OF THE PROJECT AREA AND HAS FOUND THE DATA TO BE REASONABLY ACCURATE.

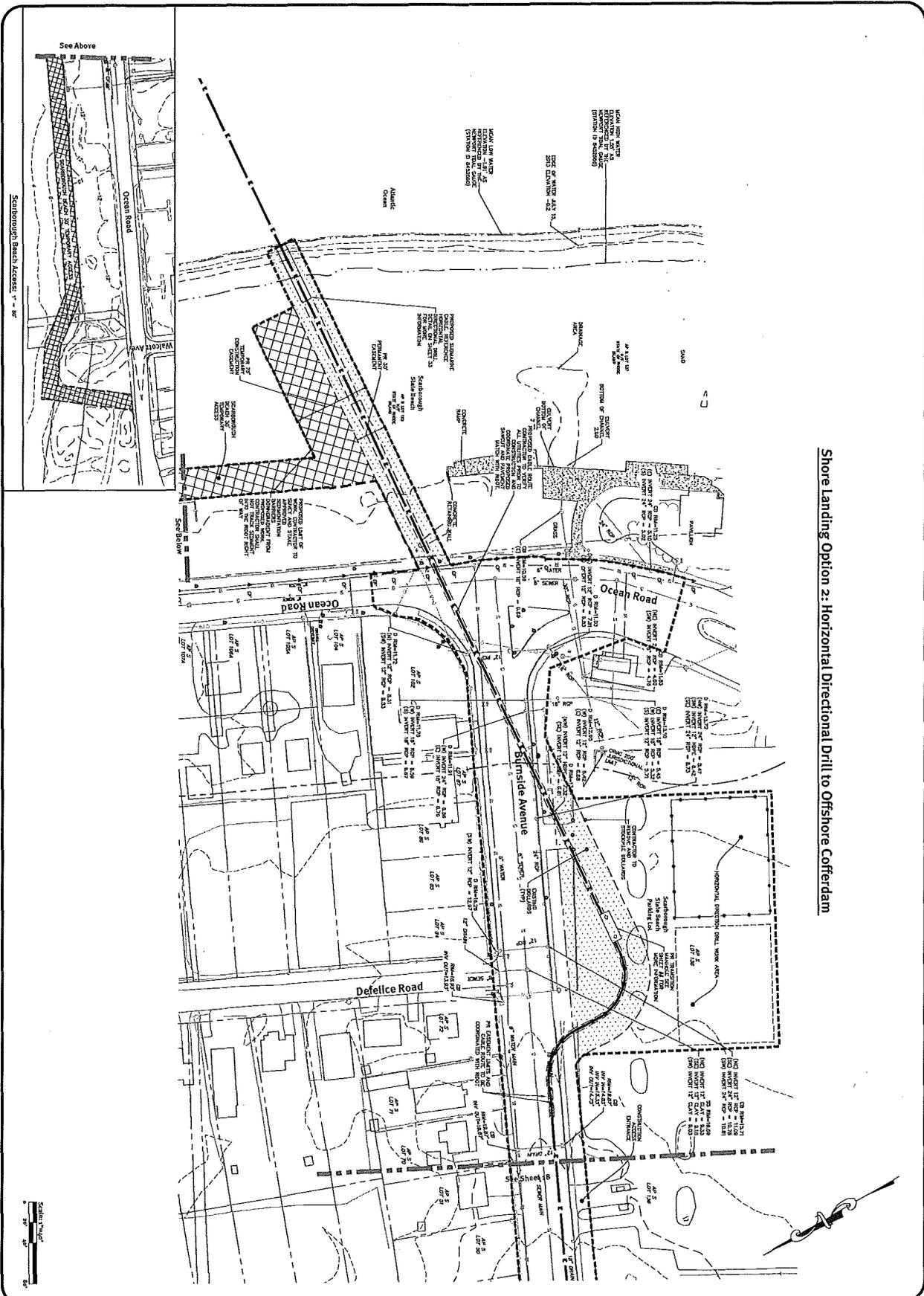
3. UNDERGROUND UTILITY INVESTIGATIONS, INCLUDING CHECKED CONDUIT, MANHOLES AND MANHOLE LACERS, UTILITIES FROM OTHER CLIENTS AND RELATED INFORMATION ARE PROVIDED FOR INFORMATION. WORK SHALL PROCEED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, LATEST EDITION, AND SHALL BE SUBJECT TO THE SUPERVISOR'S INSTRUCTIONS.











Shore Landing Option 2: Horizontal Directional Drill to Offshore Cofferdam

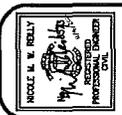
Scarborough Beach Landing-Option 2  
 Deepwater Wind Block Island  
 Transmission, LLC  
 17  
 Deepwater Wind  
 17

NO. 1	DATE	DESCRIPTION
1	11/20/13	ISSUED FOR PERMITTING
2	04/10/14	REVISED PER COMMENTS
3	04/10/14	REVISED PER COMMENTS
4	04/10/14	REVISED PER COMMENTS
5	04/10/14	REVISED PER COMMENTS
6	04/10/14	REVISED PER COMMENTS
7	04/10/14	REVISED PER COMMENTS
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9	04/10/14	REVISED PER COMMENTS
10	04/10/14	REVISED PER COMMENTS

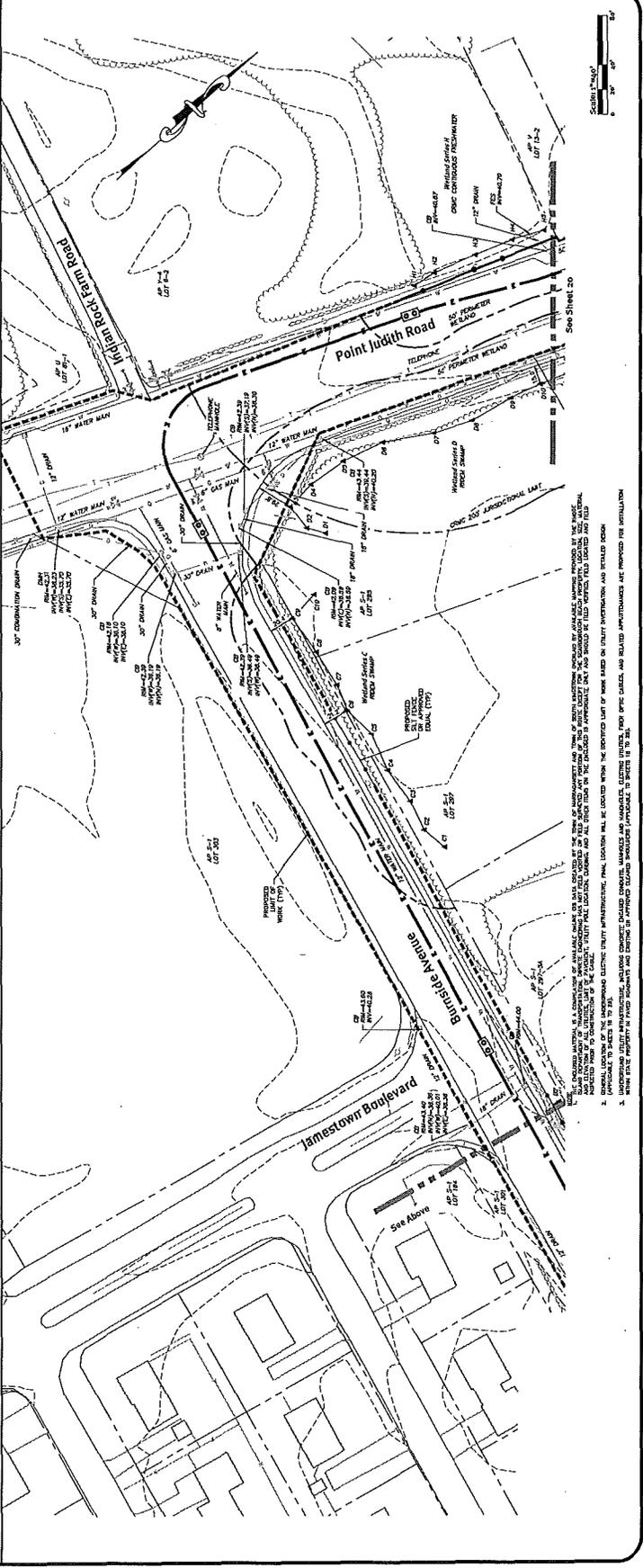
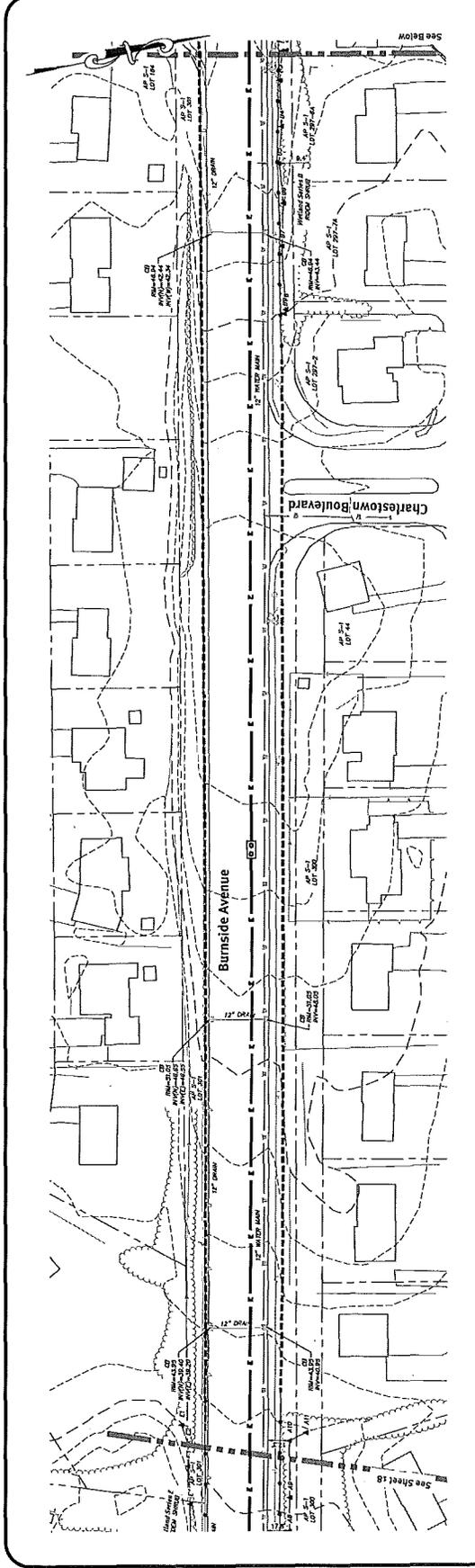
Drawn by: J.A.D. Checked by: B.C.C.

**DiPrete Engineering**  
 Two Suffolk Court, Cranston, RI 02923  
 Tel: 401-942-1500 Fax: 401-942-6526 www.diprete.com  
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DATE	DESCRIPTION	BY	CHKD
01/15/2010	ISSUED FOR PERMITS	NK	ML
01/15/2010	REVISED PER COMMENTS	NK	ML
01/15/2010	REVISED PER COMMENTS	NK	ML
01/15/2010	REVISED PER COMMENTS	NK	ML
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01/15/2010	REVISED PER COMMENTS	NK	ML

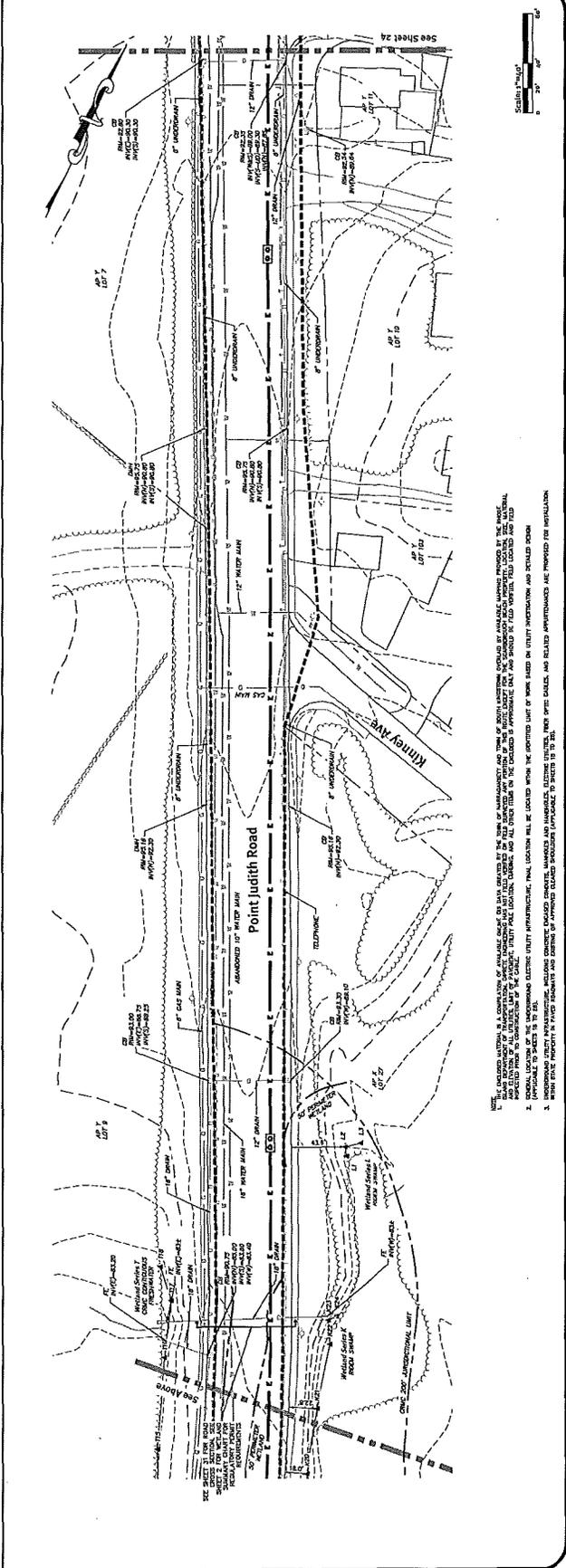
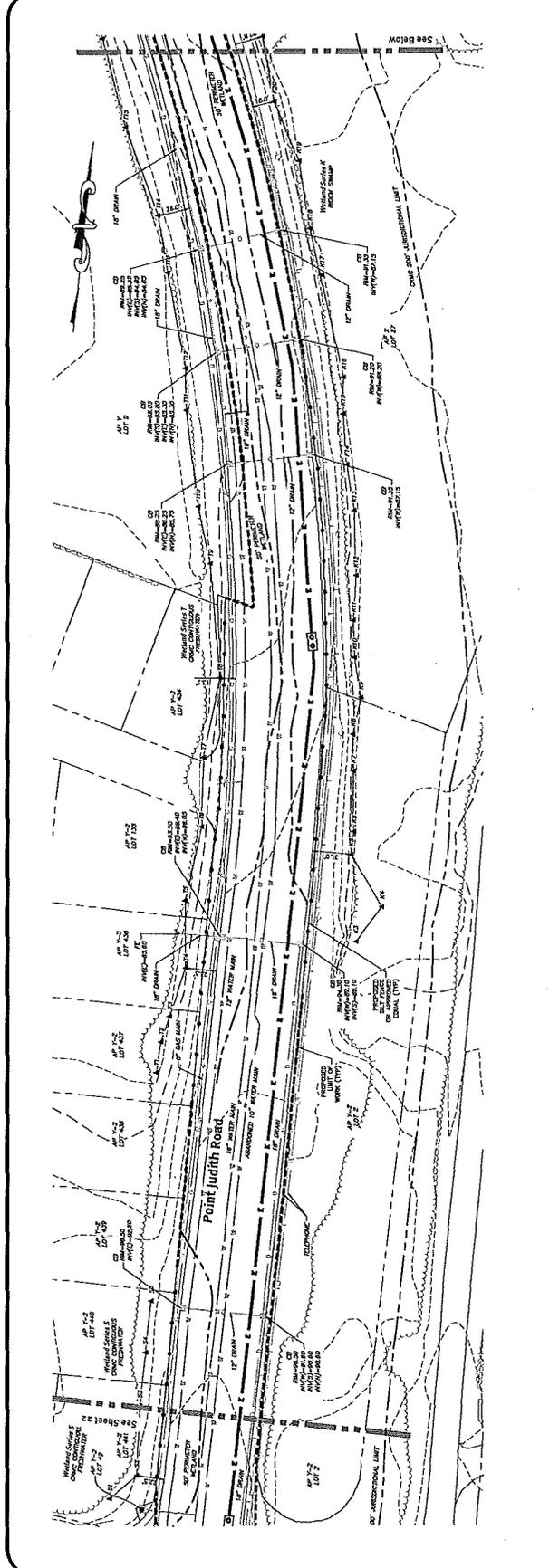


1. ALL DIMENSIONS ARE IN FEET AND DECIMALS THEREOF. DIMENSIONS SHALL BE TAKEN FROM THE CENTERLINE OF THE ROAD OR FROM THE CORNER OF THE LOT UNLESS OTHERWISE SPECIFIED.  
 2. ALL DIMENSIONS SHALL BE TAKEN FROM THE CENTERLINE OF THE ROAD OR FROM THE CORNER OF THE LOT UNLESS OTHERWISE SPECIFIED.  
 3. ALL DIMENSIONS SHALL BE TAKEN FROM THE CENTERLINE OF THE ROAD OR FROM THE CORNER OF THE LOT UNLESS OTHERWISE SPECIFIED.  
 4. ALL DIMENSIONS SHALL BE TAKEN FROM THE CENTERLINE OF THE ROAD OR FROM THE CORNER OF THE LOT UNLESS OTHERWISE SPECIFIED.









1. THE INFORMATION CONTAINED HEREIN IS A SUMMARY OF AVAILABLE DATA OBTAINED BY MEASUREMENT AND SURVEY. THE ENGINEER HAS CONDUCTED VISUAL INSPECTIONS OF THE PROJECT AREA AND HAS FOUND THE INFORMATION TO BE RELIABLE. THE ENGINEER HAS CONDUCTED VISUAL INSPECTIONS OF THE PROJECT AREA AND HAS FOUND THE INFORMATION TO BE RELIABLE. THE ENGINEER HAS CONDUCTED VISUAL INSPECTIONS OF THE PROJECT AREA AND HAS FOUND THE INFORMATION TO BE RELIABLE.



















