

PUBLIC NOTICE

REQUEST FOR PERMISSION TO ALTER U.S. ARMY CORPS OF ENGINEERS PROJECTS UNDER SECTION 408

TITLE: Atlantic Shores Offshore Wind, LLC – Offshore Wind Turbine Energy Generation Project – Atlantic County and Monmouth County, New Jersey

PUBLIC NOTICE IDENTIFICATION NUMBER: NAP-2019-01069-84

PUBLIC NOTICE COMMENT PERIOD:

Begins: **30 January 2023**

Expires: **01 March 2023**

Interested parties are hereby notified that an application has been received for a Department of the Army Section 408 permission for certain work at or near a federal project of the United States, as described below and shown on attached figures. Written comments are being solicited from anyone having an interest in the requested alteration. Comments will become part of the U.S. Army Corps of Engineers' (USACE's) administrative record and will be considered in determining whether to approve the request. Comments supporting, opposing, or identifying concerns that should be considered by the USACE in its decision process are all welcome.

This public notice is not a paid advertisement and is for public information only. Issuance of this notice does not imply USACE endorsement of the project as described.

1. REQUESTOR: In compliance with 33 USC 408 (Section 14 of the Rivers and Harbors Act of 1899; hereinafter Section 408), Atlantic Shores Offshore Wind, LLC has requested permission to construct, operate, and maintain the Atlantic Shores Offshore Wind Energy Generation Project pursuant to Bureau of Ocean Energy Management (BOEM) requirements for the “Atlantic Shores Lease Area OCS-A 0499 (South)”.

2. LOCATION: The proposed offshore wind turbine energy generation area is located in the Atlantic Ocean approximately 8.70-miles (7.56-nautical miles) from the Atlantic County, New Jersey shoreline. Electric utility cable routes from the offshore wind turbine area, as well as substations and grid connections, would be sited within Atlantic City, the City of Pleasantville, and Egg Harbor Township within Atlantic County, New Jersey; and the Boroughs of Sea Girt and Manasquan, and Wall and Howell Townships within Monmouth County, New Jersey. An Operations and Maintenance (O&M) facility located between North Maryland Avenue and Clam Creek in Atlantic City, New Jersey is also proposed.

The subject project would occupy/alter the following Federal Civil Works Projects sited along New Jersey's Atlantic Ocean coastline and back bay areas:

- A) Offshore Federal Civil Works Sand Resource/Borrow Areas.
- B) Absecon Island Coastal Storm Risk Management Federal Civil Works Project.
- C) Sea Bright to Manasquan, New Jersey Coastal Risk Management and Erosion Control Federal Civil Works Project.
- D) Inside Thorofare portion of the Intracoastal Waterway Federal Navigation Project.
- E) New Jersey Back Bays Coastal Storm Risk Management Federal Study Area.

The subject project would be sited proximate to the following Federal Civil Works Projects which are being evaluated by USACE for their potential to be occupied/alterd by the subject project:

- A) Manasquan Inlet and River Federal Navigation Project.
- B) Clam Creek portion of the Absecon Inlet Federal Navigation Project.

3. LOCATION MAP(S)/DRAWING(S): Please see attached Project Plan Sheets 1 through 33.

4. REQUESTER'S PROPOSED ACTION: Construct, operate, and maintain the Atlantic Shores Offshore Wind Energy Generation Project pursuant to Bureau of Ocean Energy Management (BOEM) requirements for the "Atlantic Shores Lease Area OCS-A 0499 (South)". The subject project would occupy/alter the following Federal Civil Works Projects as follows:

- A) Offshore Federal Civil Works Sand Resource/Borrow Areas – Atlantic Export Cable Corridor (ECC) and Monmouth ECC crossing beneath existing offshore sand resource/borrow areas via hydro or jet plow installation. Please refer to Project Plan Sheets 1 through 7.
- B) Absecon Island Coastal Storm Risk Management Federal Civil Works Project - Atlantic ECC landfall crossing beneath Federal project via the Horizontal Directional Drilling (HDD) method. Please refer to Project Plan Sheets 8, 12, and 13.
- C) Sea Bright to Manasquan, New Jersey Coastal Risk Management and Erosion Control Federal Civil Works Project - Monmouth ECC landfall crossing beneath Federal project via the HDD method. Please refer to Project Plan Sheet 10.
- D) Inside Thorofare portion of the Intracoastal Waterway Federal Navigation Project. Atlantic ECC crossing beneath Federal Navigation Channel via the HDD method. Please refer to Project Plan Sheets 14, 15, and 16.

- E) New Jersey Back Bays Coastal Storm Risk Management Federal Study Area. Atlantic ECC crossing beneath Federal Study Area via the HDD method. Please refer to Project Plan Sheets 8 through 33.

The subject project would be sited outside of, but proximate to, the following Federal Civil Works Projects which are being evaluated by USACE for their potential to be occupied/altered by the subject project:

- A) Manasquan Inlet and River Federal Navigation Project. Please refer to Project Plan Sheet 11.
- B) Clam Creek portion of the Absecon Inlet Federal Navigation Project. Proposed Operations and Maintenance (O&M) Facility and dredging. Please refer to Project Plan Sheet 9.

5. REGULATORY AUTHORITY: This request will be reviewed according to the provisions of Section 14 of the Rivers and Harbors Act of 1899 (33 U.S.C. 408). A requestor has the responsibility to acquire all other permissions or authorizations required by federal, state, and local laws or regulations, including any required permits from the USACE Regulatory Program under Section 10 of the Rivers and Harbors Act of 1899 (33 USC 403), Section 404 of the Clean Water Act (33 USC Section 1344) and/or Section 103 of the Marine Protection, Research and Sanctuaries Act of 1972 (33 USC 1413). Any Section 10/404/103 permit decision associated with the proposed alteration is separate from and will not be included in the Section 408 permission decision. An approval under Section 408 does not grant any property rights or exclusive privileges nor does it authorize any injury to the property or rights of others.

6. ENVIRONMENTAL COMPLIANCE: A decision on a Section 408 request is a federal action, and therefore subject to the National Environmental Policy Act (NEPA) and other environmental compliance requirements. While ensuring compliance is the responsibility of USACE, the requester is providing all information that the Philadelphia District identifies as necessary to satisfy all applicable federal laws, executive orders, regulations, policies, and ordinances. Based on information provided by the applicant to date, current Corps regulations governing NEPA implementation, and/or the contents of existing NEPA documentation if available, it is likely that the proposed action will be determined to be categorically excluded from the need to prepare an Environmental Assessment (EA) or Environmental Impact Statement (EIS). This determination will be finalized following completion of agency coordination and prior to issuance of the Section 408 Permission Decision.

7. EVALUATION: As part of its evaluation, USACE will first make a determination that the submittal from the requestor is complete. The Philadelphia District is working closely with the requestor to ensure that all required technical plans, maps, drawings, and specifications are provided and are complete. Once the package is complete, a District-led review will be conducted to determine, in accordance with Engineering Circular (EC) 1165-2-216, whether the proposed alteration will impair the usefulness of the USACE Project or be injurious to the public interest, as follows:

- A. *Impair the Usefulness of the Project Determination.* The Philadelphia District's Section 408 review team will determine if the proposed alteration will limit the ability of the federally authorized project to function as authorized, or will compromise or change any authorized project conditions, purposes or outputs.
- B. *Injurious to the Public Interest Determination.* Proposed alterations will be reviewed to determine the probable impacts, including cumulative impacts, on the public interest. Evaluation of the probable impacts that the proposed alteration to the USACE project may have on the public interest requires a careful weighing of all those factors that are relevant in each particular case. Factors that may be relevant to the public interest depend upon the type of USACE project being altered and may include, but are not limited to, such things as conservation, economic development, historic properties, cultural resources, environmental impacts, water supply, water quality, flood hazards, floodplains, residual risk, induced damages, navigation, shore erosion or accretion, and recreation. The decision whether to approve an alteration will be determined by the consideration of whether benefits are commensurate with risks. If the potential detriments are found to outweigh the potential benefits, then it may be determined that the proposed alteration is injurious to the public interest.

8. SOLICITATION OF COMMENTS: The USACE is soliciting comments from the public; federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of the proposed activity. Any comments received will be considered by USACE to determine whether to issue, modify, condition, or deny a permission for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and other public interest factors listed above. Comments are considered in making a final determination whether the proposed action will be categorically excluded from the need to prepare further NEPA documentation. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

- A. It should be noted that materials submitted as part of the Section 408 request become part of the public record and are thus available to the general public under the procedures of the Freedom of Information Act (FOIA). Individuals may submit a written request to the Philadelphia District Corps of Engineers, Office of Counsel to obtain copies of said materials under the FOIA.
- B. It is presumed that all parties viewing this notice will wish to respond to this public notice; therefore, a lack of response will be interpreted as meaning that there is no objection to the project as described.

9. COMMENT SUBMISSION AND ADDITIONAL INFORMATION: Written comments on the described work should reference the USACE Public Notice Identification Number found on the first page of this notice. Comments must reach this office no later than the stated expiration date of the Public Notice to become part of the record and be considered in the decision. Comments or requests for additional information should be mailed or emailed to the following address:

Email: JuanCarlos.Corona@usace.army.mil

Mailing Address:

U.S. Army Corps of Engineers

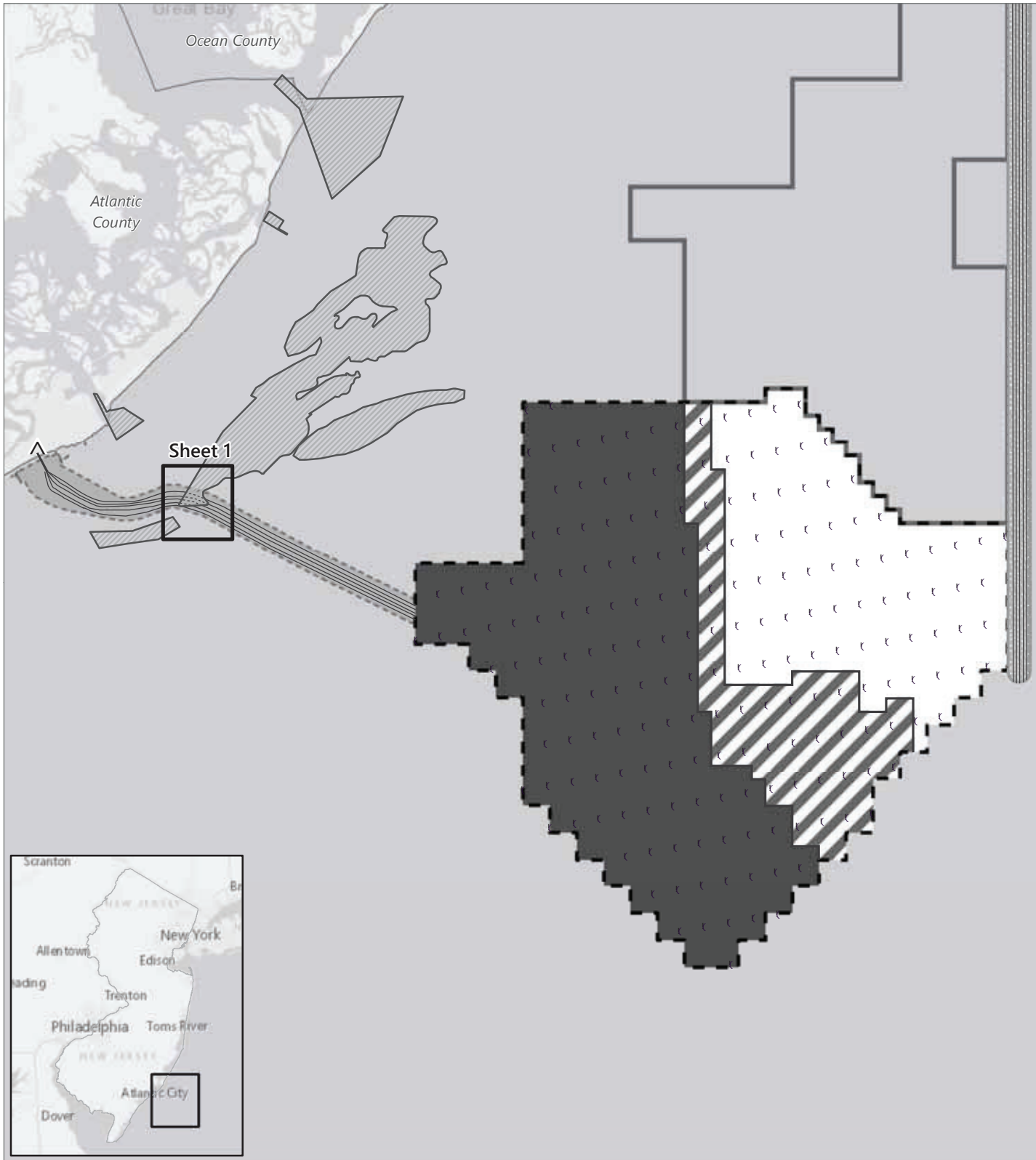
Philadelphia District

Attn: Juan Carlos Corona

100 South Independence Mall West, 2nd Floor

Philadelphia, PA 19106-3400












Figure 1. Atlantic Export Cable Corridor Offshore Project Overview

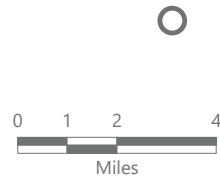


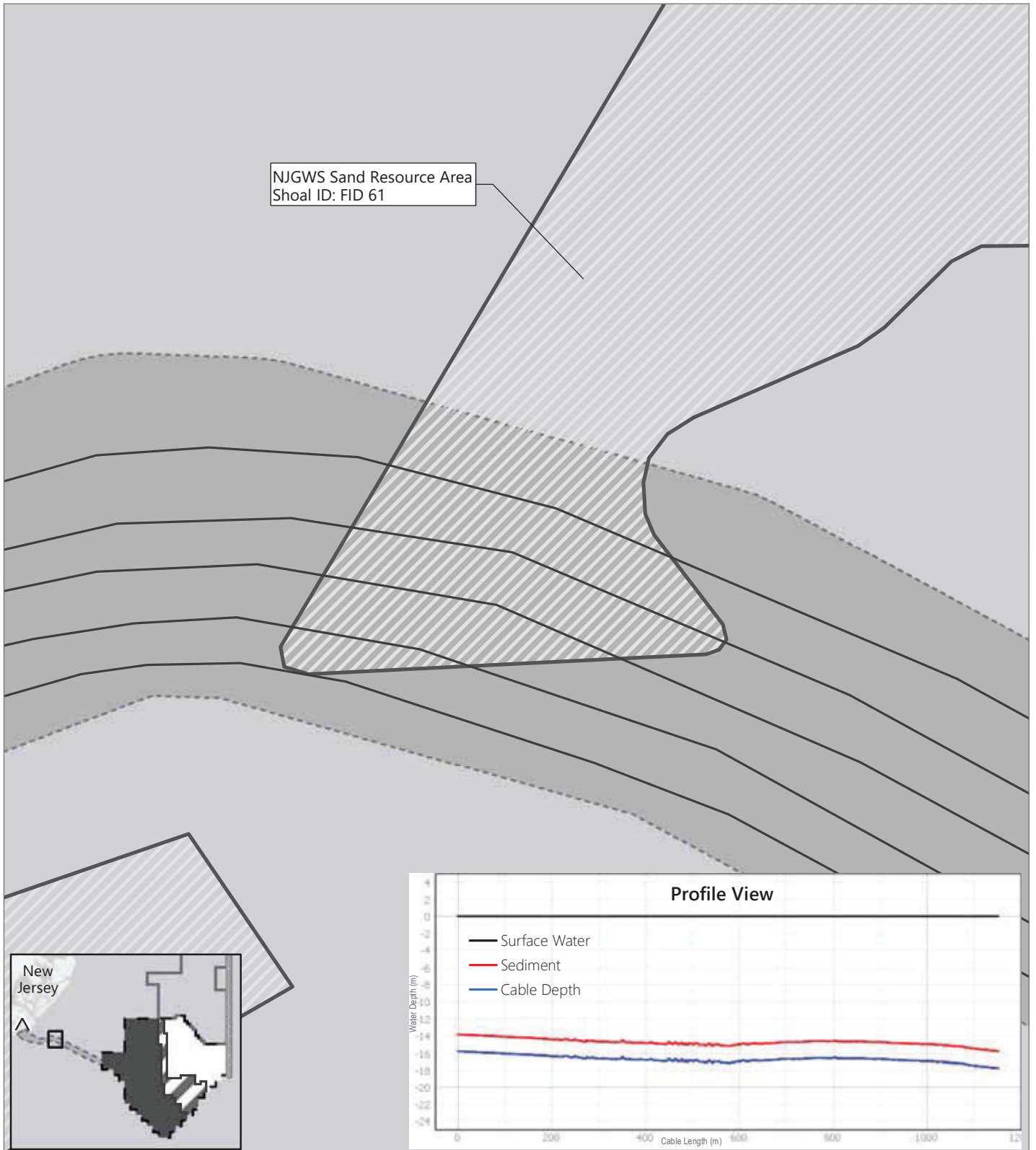
Atlantic Shores Offshore Wind

Philadelphia District

USACE Section 408 Permit

-  Atlantic Landfall Site
-  Wind Turbine Generators
-  Submarine Export Cable
-  Atlantic Export Cable Corridor
-  Monmouth Export Cable Corridor
-  Sand Resource Area
-  Atlantic Shores Wind Turbine Area
-  Atlantic Shores Lease Area OCS-A 0549
-  Project 1 Area
-  Project 2 Area
-  Overlap Area (Project 1 or 2)



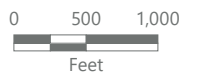


Atlantic Shores Offshore Wind

Philadelphia District

USACE Section 408 Permit

- Atlantic Landfall Site
- Submarine Export Cables
- Sand Resource Area
- Atlantic Export Cable Corridor
- Monmouth Export Cable Corridor
- Atlantic Shores Wind Turbine Area
- Project 1 Area
- Project 2 Area
- Overlap Area (Project 1 or 2)

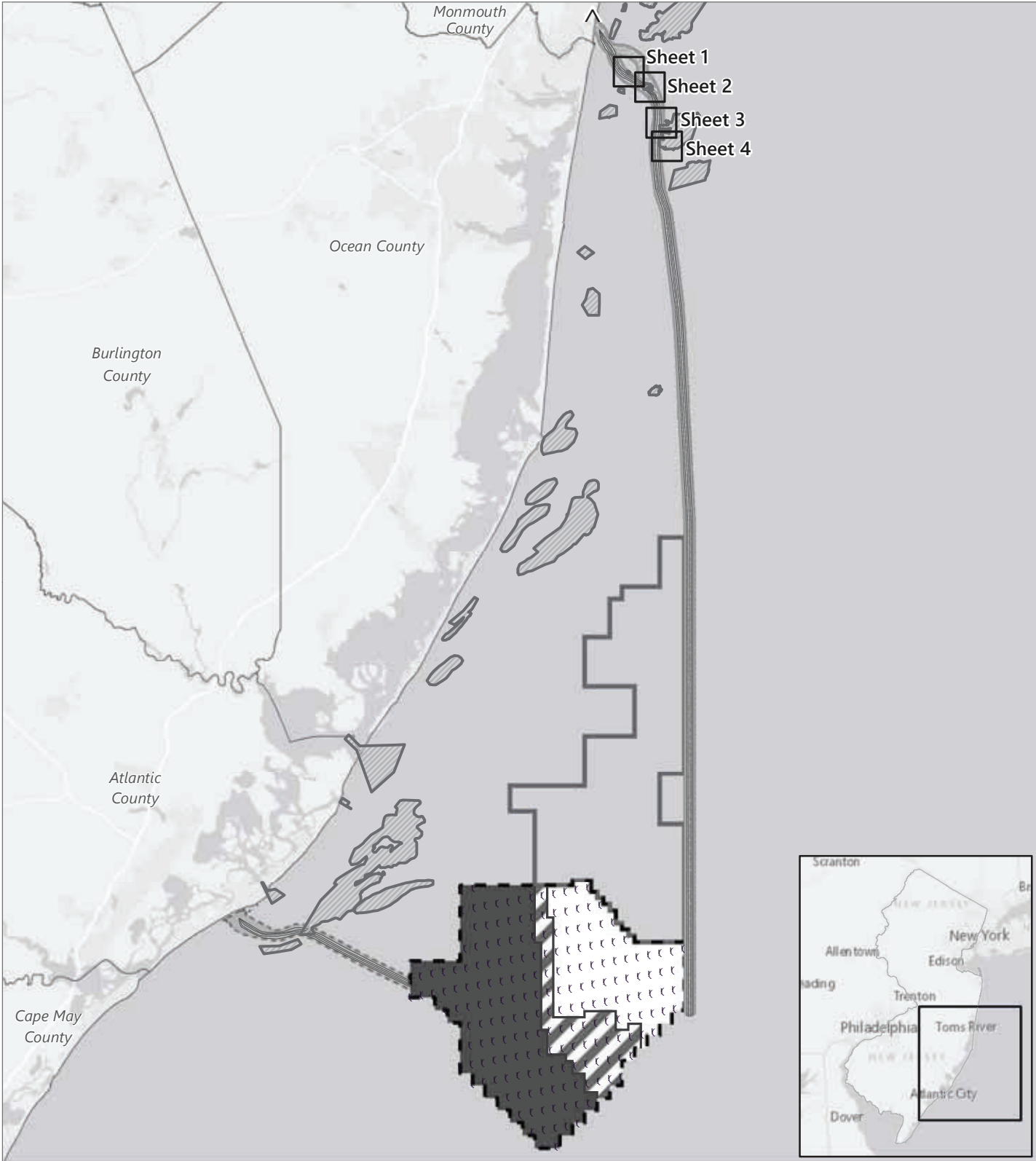


Prepared January 20, 2023

Note: For illustrative purposes only











Basemap: Esri "World Light Gray Canvas" map service

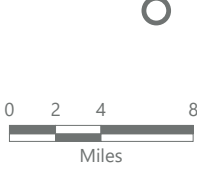
Figure 2. Monmouth Export Cable Corridor Offshore Project Overview

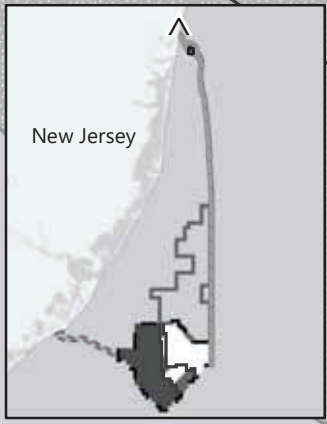
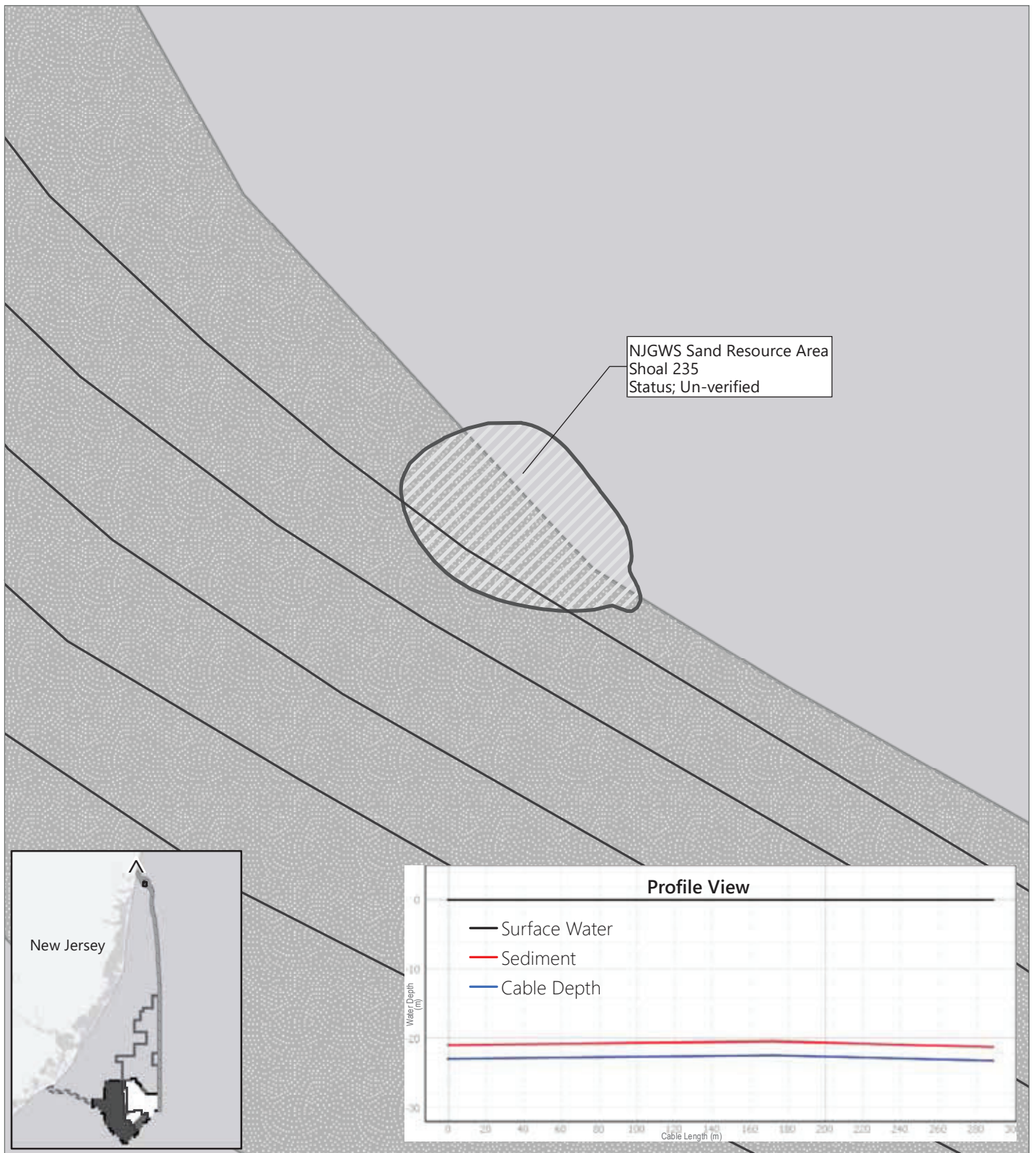


Philadelphia District

USACE Section 408 Permit

-  Monmouth Landfall Site
-  Wind Turbine Generators
-  Submarine Export Cable
-  Atlantic Export Cable Corridor
-  Monmouth Export Cable Corridor
-  Sand Resource Area
-  Atlantic Shores Wind Turbine Area
-  Atlantic Shores Lease Area OCS-A 0549
-  Project 1 Area
-  Overlap Area (Project 1 or 2)



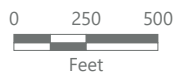


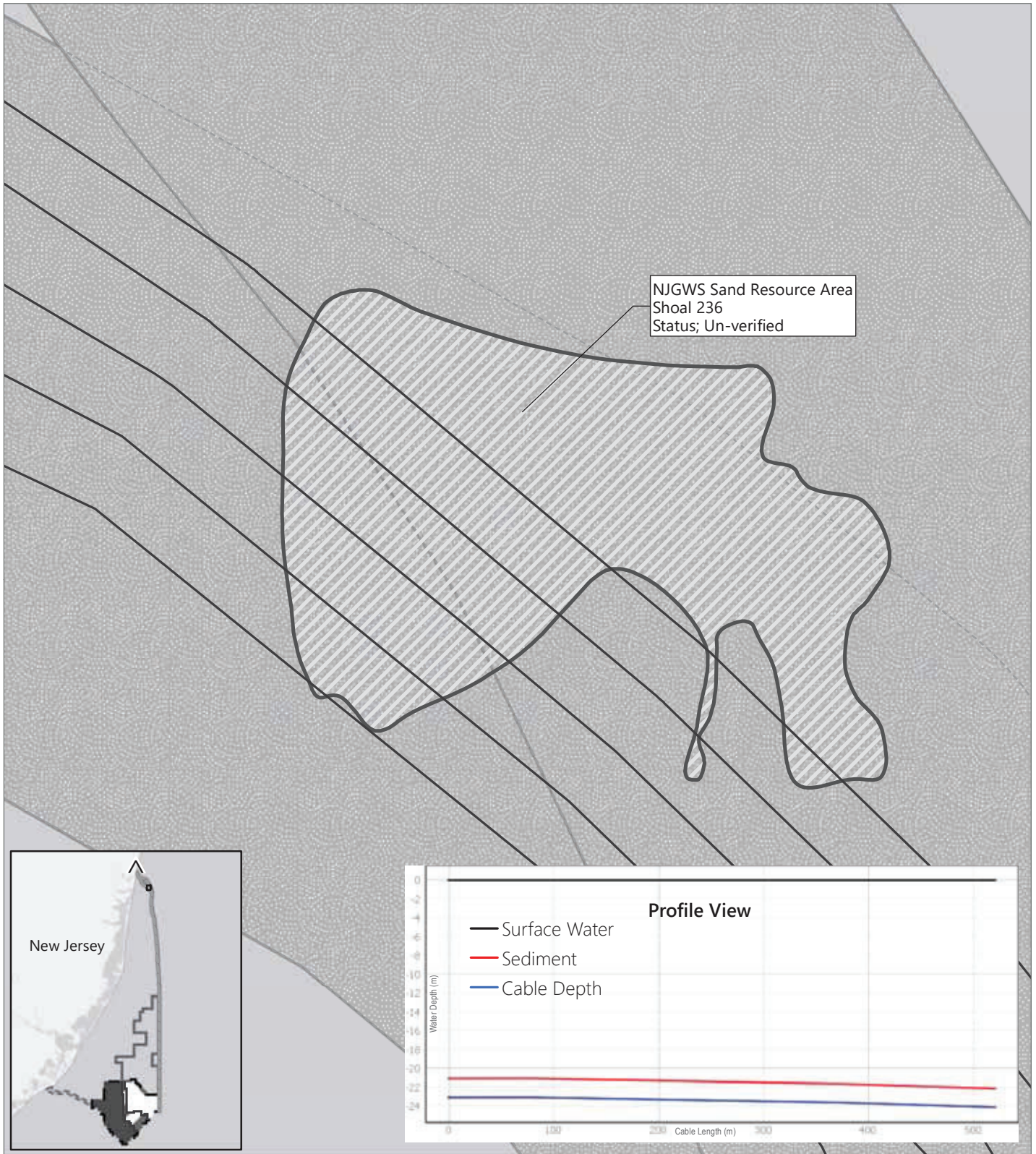
Atlantic Shores Offshore Wind

Philadelphia District

USACE Section 408 Permit

- Monmouth Landfall Site
- Submarine Export Cable
- Sand Resource Area
- Monmouth Export Cable Corridor
- Atlantic Export Cable Corridor
- Atlantic Shores Wind Turbine Area
- Atlantic Shores Lease Area OCS-A 0549
- Project 1 Area
- Project 2 Area
- Overlap Area (Project 1 or 2)













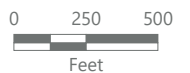


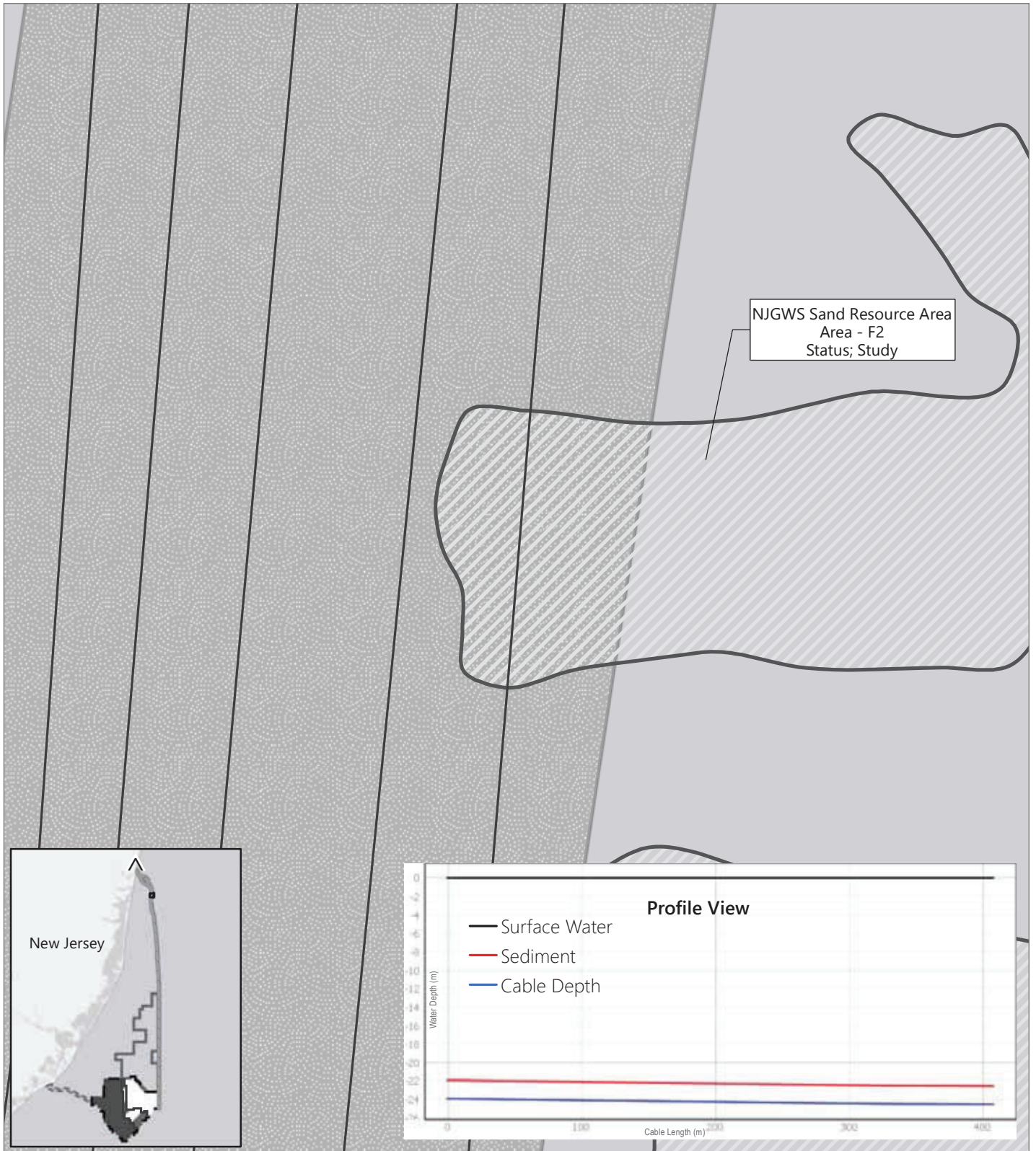
**Atlantic Shores
Offshore Wind**

Philadelphia District

USACE Section 408 Permit

-  Monmouth Landfall Site
-  Submarine Export Cable
-  Sand Resource Area
-  Monmouth Export Cable Corridor
-  Atlantic Export Cable Corridor
-  Atlantic Shores Wind Turbine Area
-  Atlantic Shores Lease Area OCS-A 0549
-  Project 1 Area
-  Project 2 Area
-  Overlap Area (Project 1 or 2)



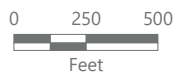


**Atlantic Shores
Offshore Wind**

Philadelphia District

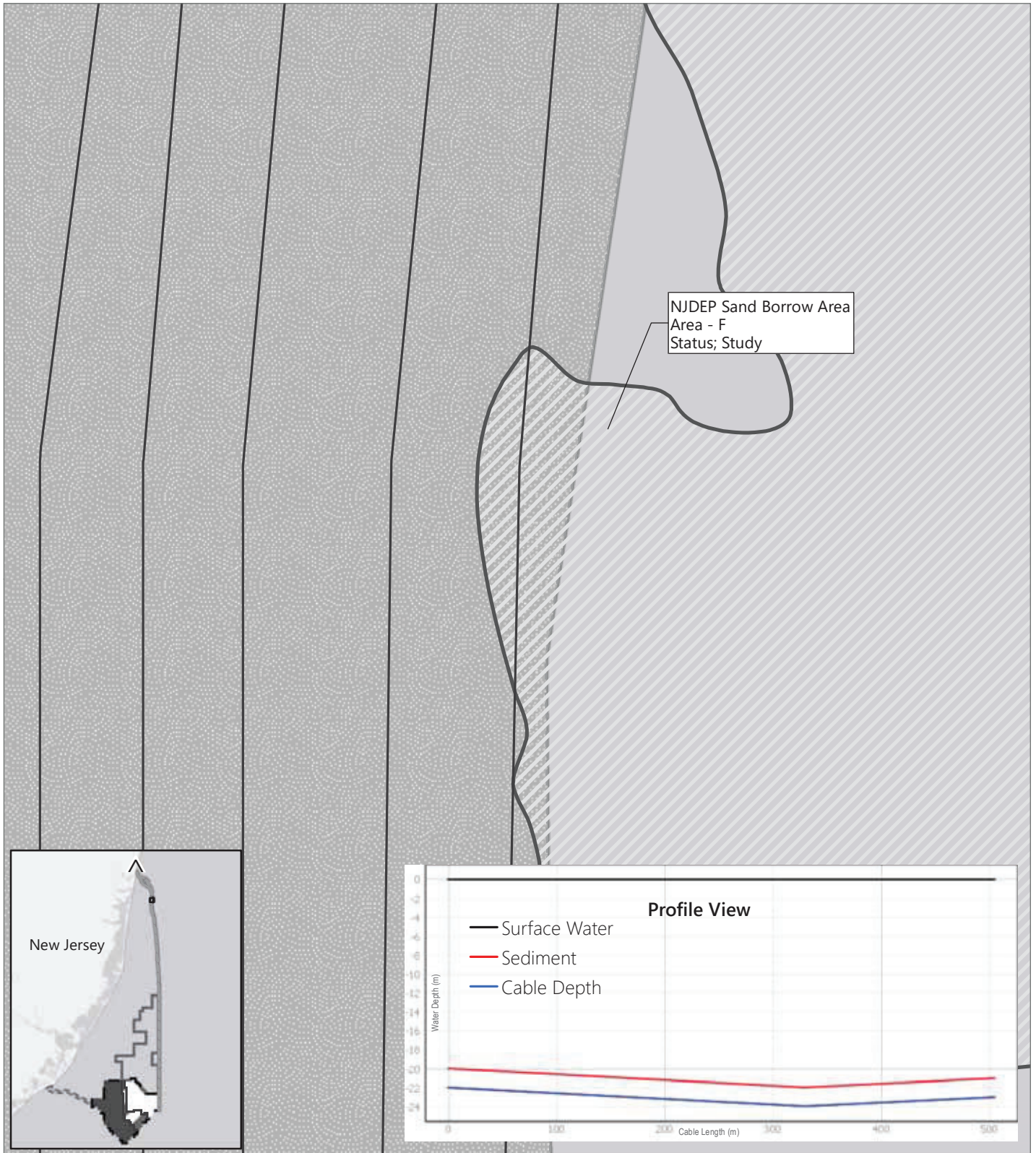
USACE Section 408 Permit

- ^ Monmouth Landfall Site
- Submarine Export Cable
- ▨ Sand Resource Area
- ▤ Monmouth Export Cable Corridor
- ▧ Atlantic Export Cable Corridor
- ▩ Atlantic Shores Wind Turbine Area
- Atlantic Shores Lease Area OCS-A 0549
- ▬ Project 1 Area
- ▭ Project 2 Area
- ▮ Overlap Area (Project 1 or 2)



Prepared January 20, 2023
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Basemap: Esri "World Light Gray Canvas" map service



Atlantic Shores Offshore Wind

Philadelphia District

USACE Section 408 Permit

-  Monmouth Landfall Site
-  Submarine Export Cable
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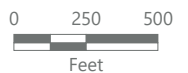
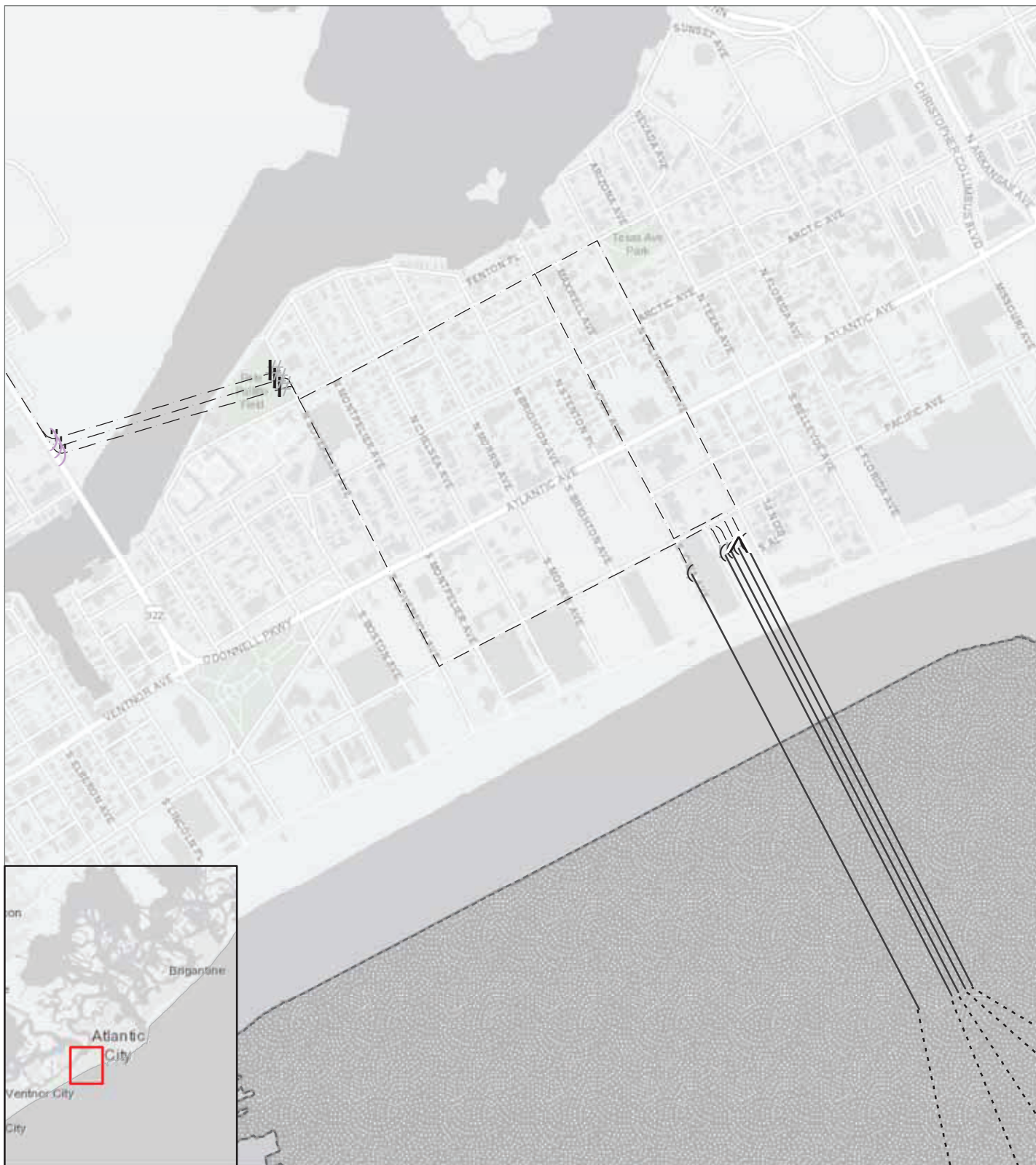


Figure 3. Atlantic Landfall Site

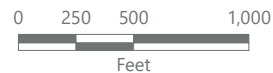


**Atlantic Shores
Offshore Wind**

Philadelphia District

USACE Section 408 Permit

- △ Atlantic Landfall Site
- # HDD Entry Point
- J HDD Exit Point
- C Transition Joint Vault
- Atlantic HDD Export Cable
- - - Atlantic Onshore Interconnection Cable Route
- · · Submarine Export Cable
- ▨ Atlantic Export Cable Corridor

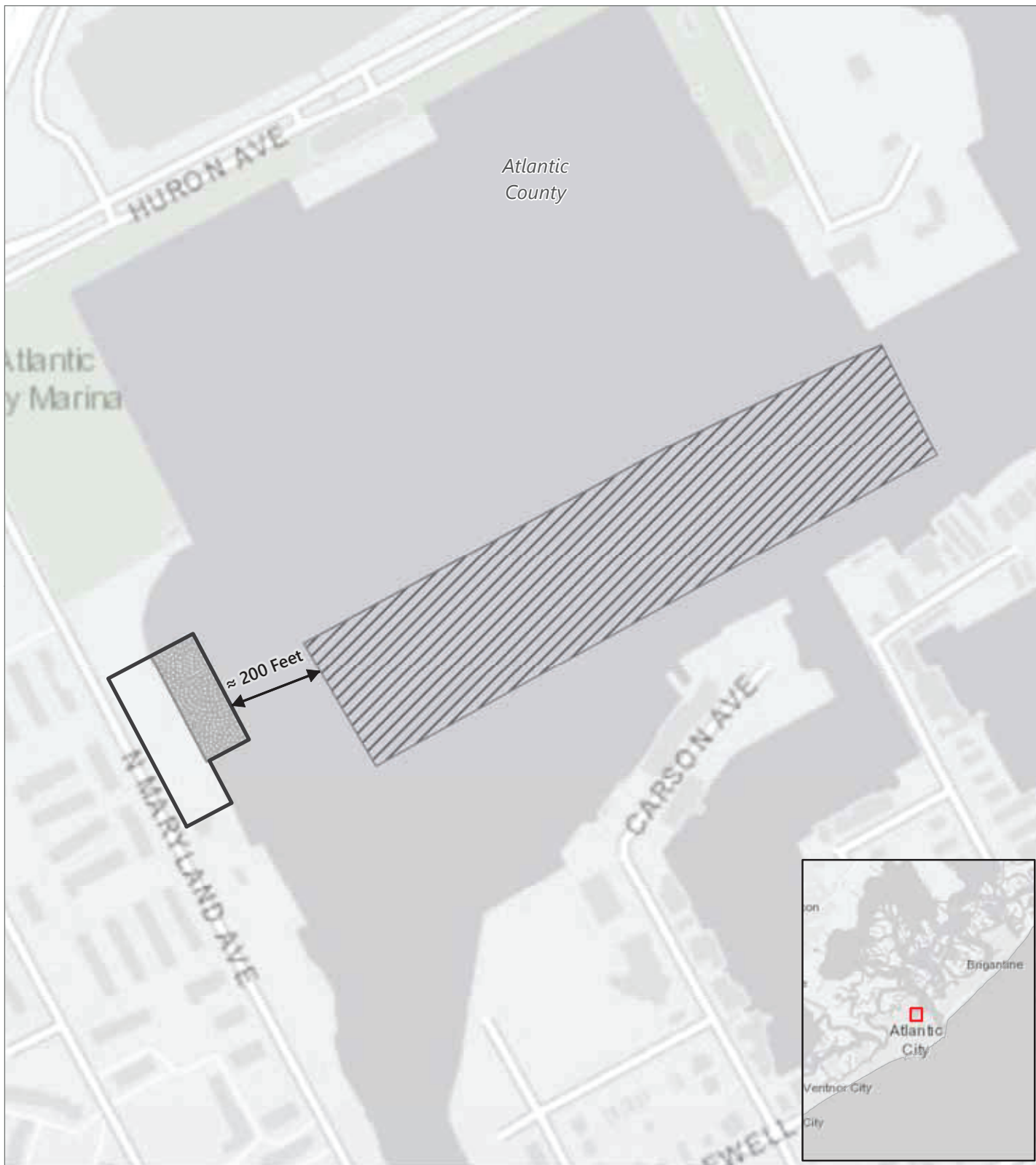


Prepared January 20, 2023

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Basemap: Esri "World Light Gray Canvas" map service




Figure 4. O&M Facility Overview



Atlantic Shores Offshore Wind

Philadelphia District

USACE Section 408 Permit

-  O&M Facility
-  Dredging Area
-  Approximate Clam Creek Area

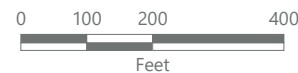
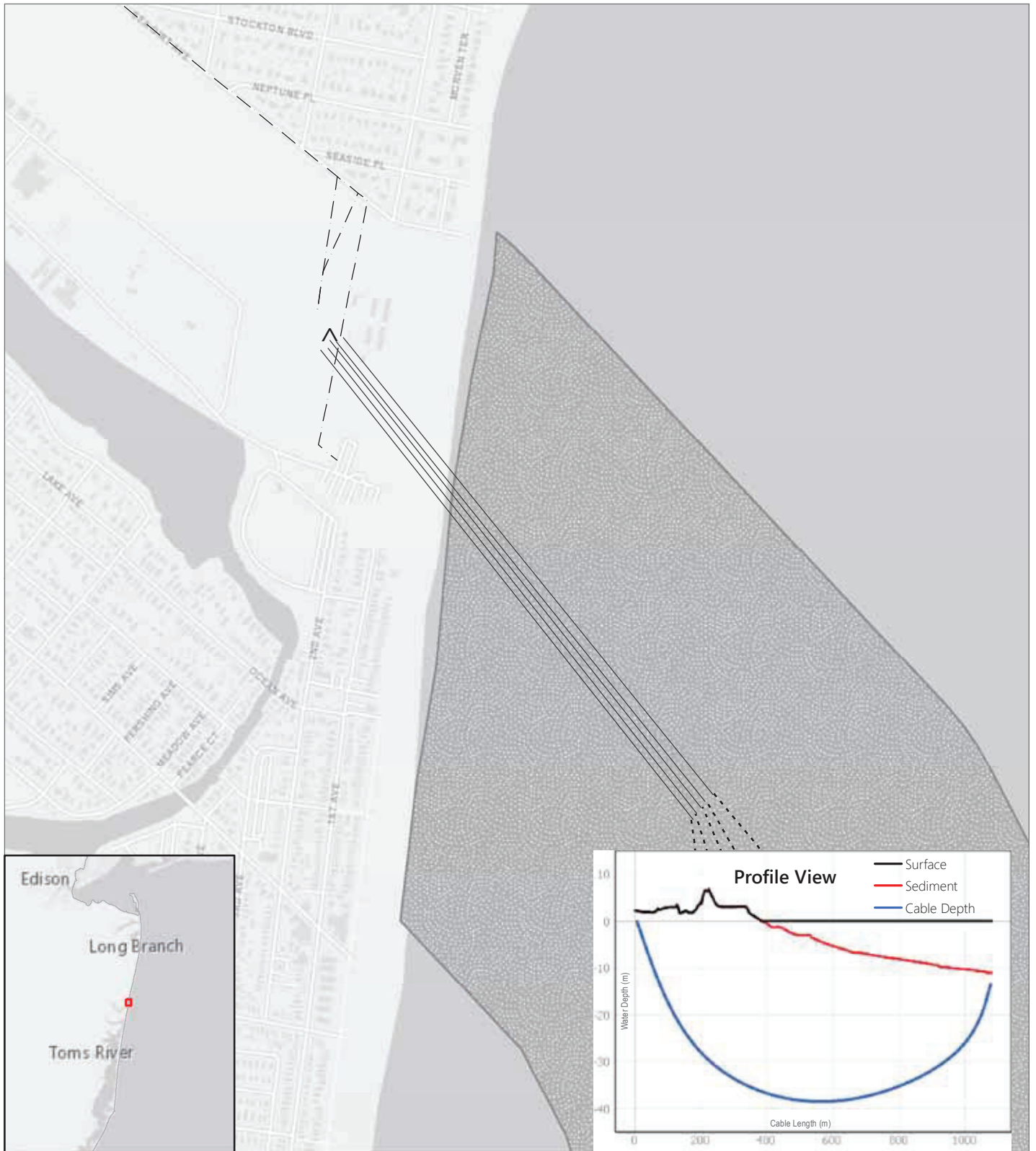


Figure 5. Monmouth Landfall Site

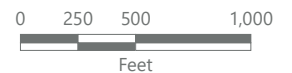


Atlantic Shores Offshore Wind

Philadelphia District

USACE Section 408 Permit

-  Monmouth Landfall Site
-  Monmouth Landfall HDD Cable Route
-  Monmouth Onshore Interconnection Cable Route
-  Submarine Export Cable
-  Monmouth Export Cable Corridor



Prepared January 20, 2023
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 Basemap: Esri "World Light Gray Canvas" map service






Figure 6. Federal Navigation Channel for Manasquan

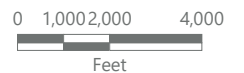


**Atlantic Shores
Offshore Wind**

Philadelphia District

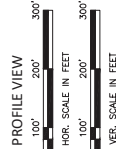
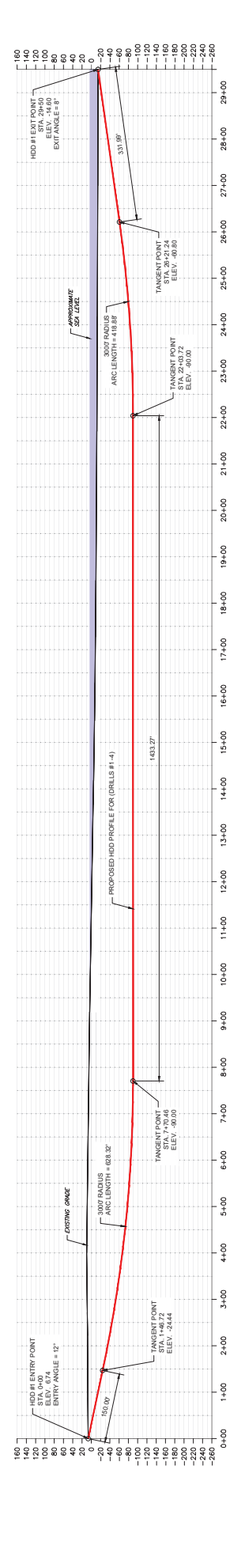
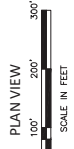
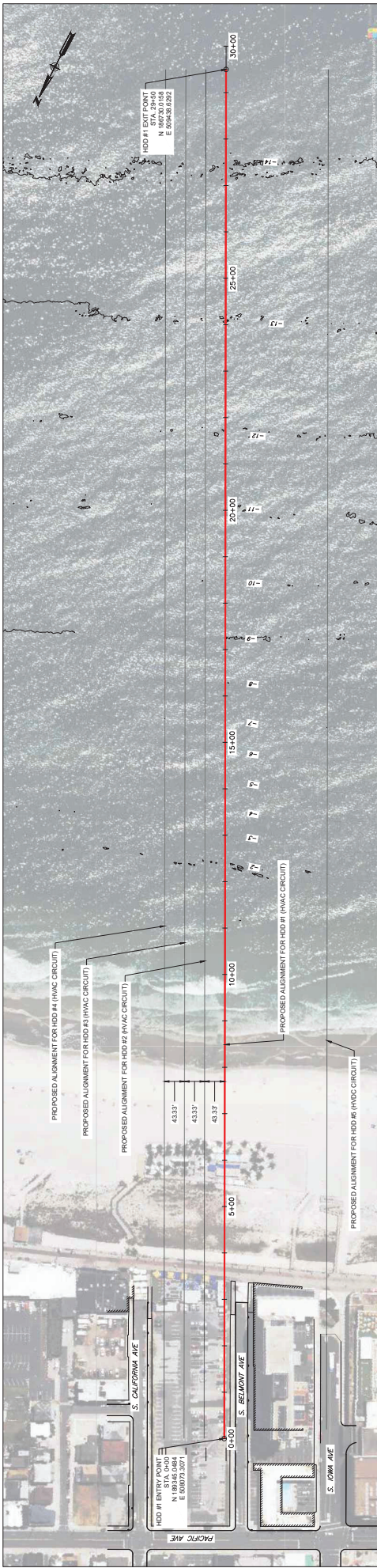
USACE Section 408 Permit

-  Landfall Site
-  Monmouth HDD Cable Route
-  Monmouth Onshore Interconnection Cable Route
-  Submarine Export Cable
-  Monmouth Export Cable Corridor
-  Federal Navigation Channel



Prepared January 20, 2023
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Basemap: Esri "World Light Gray Canvas" map service

FOR ILLUSTRATIVE PURPOSES ONLY



DIRECTIONAL DRILL DATA		
ATLANTIC CITY LANDFALL (TYP. PROFILE FOR 4-HDD'S)		
DESCRIPTION	STATION (ft)	ELEVATION (ft)
ENTRY @ 12° =	0+00	6.74
EXIT @ 8° =	29+50.00	-14.60
PC L (RADIUS)	1+46.72	-24.44
PT L (RADIUS)	7+70.46	-90.00
PC R =	22+43.72	-50.00
PT R =	26+21.24	-60.80
EXIT @ 8° =	29+50.00	-14.60
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DIRECTIONAL DRILL PIPE LENGTH =	2,862.45 FT	

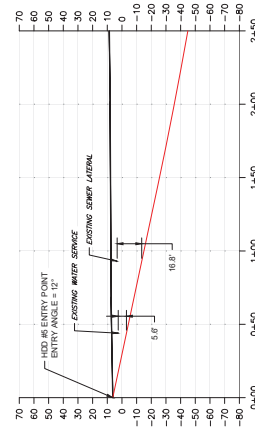
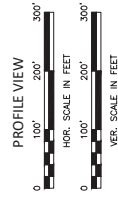
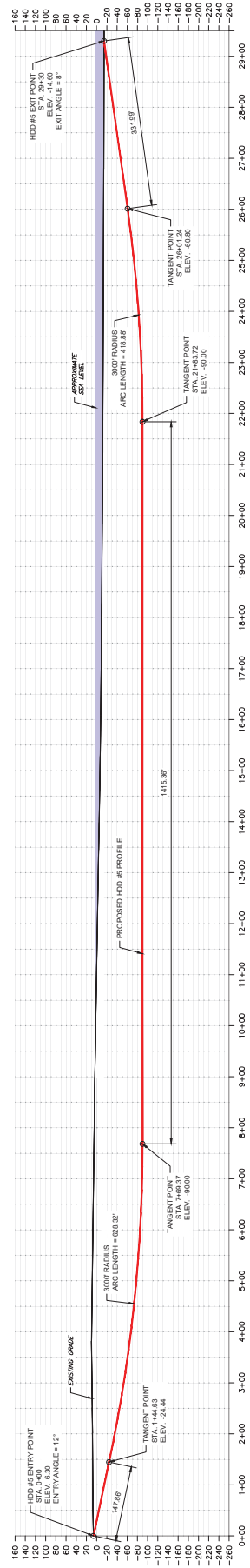
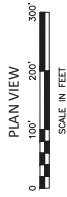
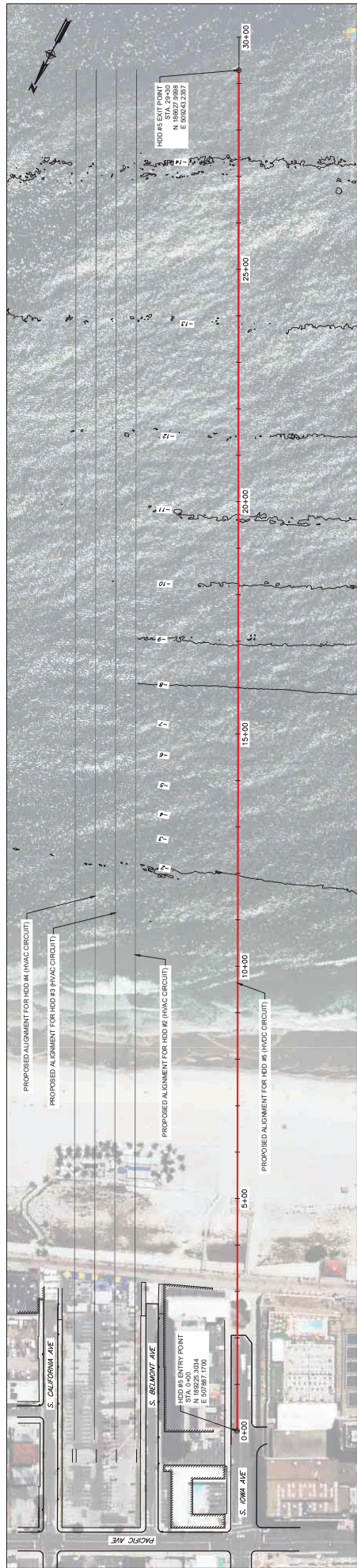
HDD ENTRY & EXIT DATA			
DRILL	NORTHING	EASTING	EXIT
HDD #1	189345.0484	186730.0158	509438.6292
HDD #2	189365.1040	508111.7200	509477.6421
HDD #3	189385.1596	508150.1329	186770.1270
HDD #4	189405.2152	508188.5458	186790.1826

Figure 7. Atlantic Landfall HDD Plan & Profile

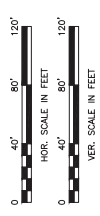
ISSUE FOR PERMIT

<p>CARSON CORPORATION DIRECTIONAL DRILLING EARTH CONSTRUCTION</p>	<p>171 ROUTE 74 N LAUREL, NJ 972-579-1100</p>	<p>ATLANTIC SHORES OFFSHORE WIND ATLANTIC CITY LANDFALLS</p>
<p>DRILLING COORDINATES HORIZONTAL POINT: 100 FT. W. OF AREA TO BE DRILLED VERTICAL POINT: 100 FT. BELOW (H)</p>	<p>PIPE SPECIFICATIONS HDD CIRCUITS: 30" DIA. 85' DEPT.</p>	<p>DRAWING TITLE: CALIFORNIA AVE HDD #4 PLAN & PROFILE</p>
<p>PROJECT #</p>	<p>DATE</p>	<p>DRAWING #</p>
<p>ISSUE FOR PERMIT</p>	<p>DATE</p>	<p>003</p>

FOR ILLUSTRATIVE PURPOSES ONLY



UTILITY CROSSINGS NEAR ENTRY



DIRECTIONAL DRILL DATA		
DESCRIPTION	STATION (H)	ELEVATION (H)
ENTRY @ 12°	0+00	14.60
PC =	7+49.37	-24.44
PT1 =	24+01.24	-60.80
PT2 =	29+30.00	-14.60
EXIT @ 9°	29+30.00	-14.60
HORIZONTAL DISTANCE = 2,930.00 FT		
DIRECTIONAL DRILL PIPE LENGTH = 2,942.41 FT		

Figure 7. Atlantic Landfall HDD Plan & Profile

ISSUE FOR PERMIT

DATE: 10/20/2023

PROJECT: ATLANTIC CITY LANDFALLS

SCALE: 1" = 40'

DATE: 10/20/2023

SCALE: 1" = 40'

DRAWING: E

004

ATLANTIC SHORES OFFSHORE WIND

ATLANTIC CITY LANDFALLS

A PROJECT OF THE STATE

DRAWING COORDINATES

HORIZONTAL SCALE: 1" = 40'

VERTICAL SCALE: 1" = 40'

DATE: 10/20/2023

SCALE: 1" = 40'

PROJECT SUPERVISOR:

DATE: 10/20/2023

171 ROUTE 1A N

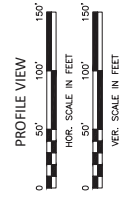
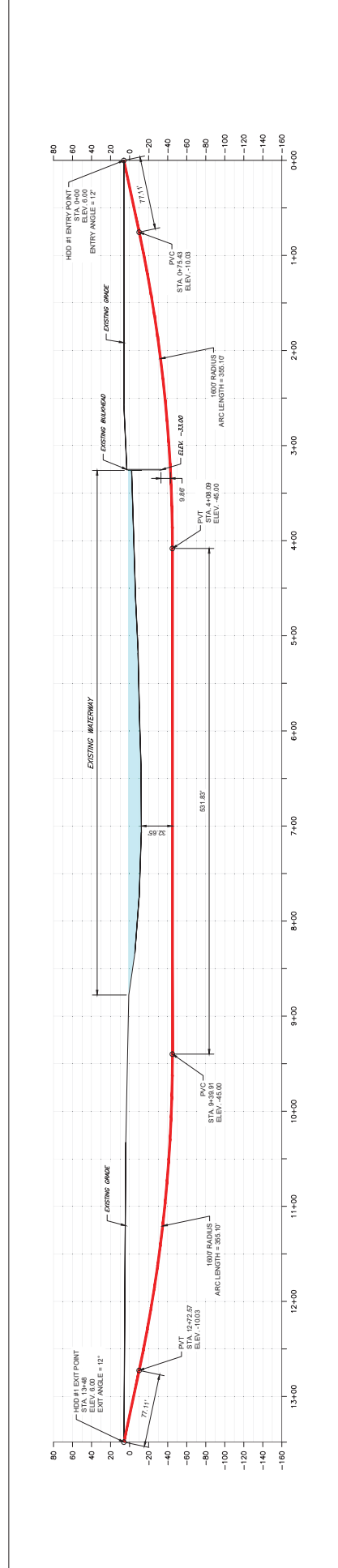
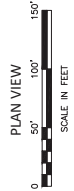
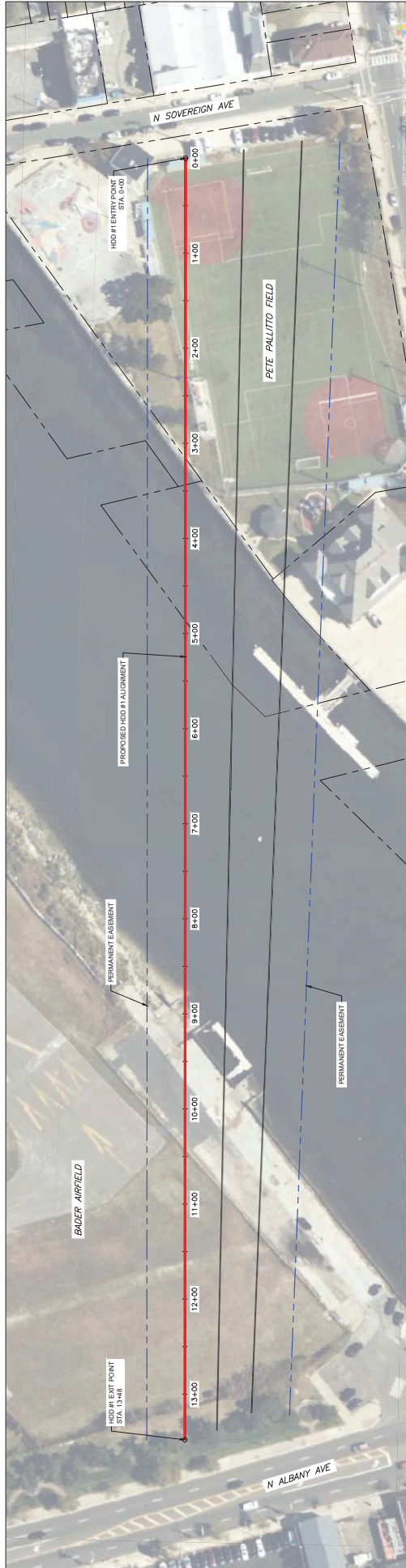
LAVETTE, NJ

973-579-1100

CARSON CORPORATION

DIRECTIONAL DRILLING | CIVIL CONSTRUCTION

FOR ILLUSTRATIVE PURPOSES ONLY



DIRECTIONAL DRILL DATA

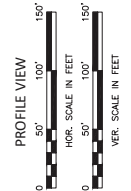
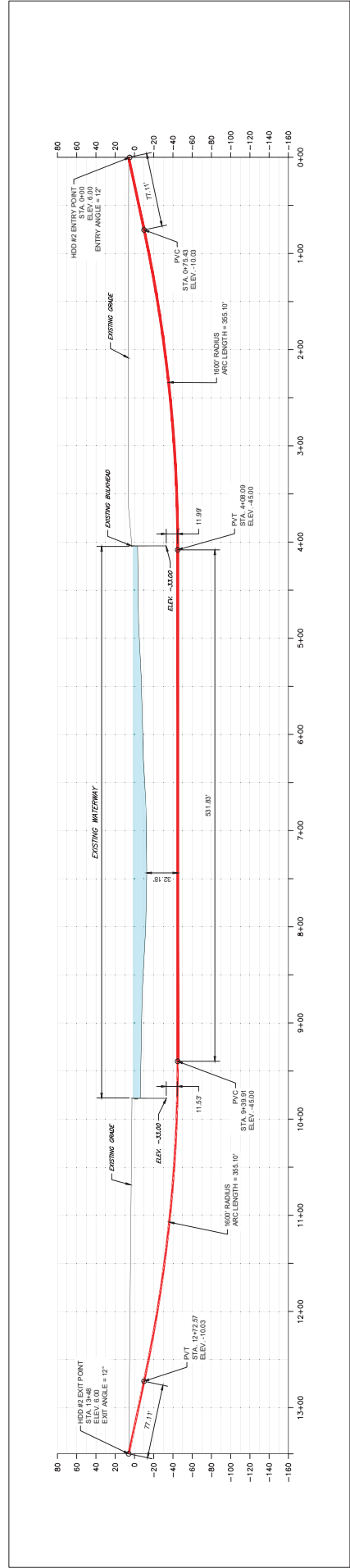
DESCRIPTION	STATION (ft)	ELEVATION (ft)
ENTRY @ 12°	0+00	6.00
PCI @ 12° (1600' RADIUS)	0+75.44	-10.04
PTI	4+08.10	-45.00
PC2 @ 12° (1600' RADIUS)	9+39.90	-45.00
PT2	12+72.56	-10.04
EXIT @ 12°	13+48.00	6.00
HORIZONTAL DISTANCE = 1348.00 FT		
DIRECTIONAL DRILL PIPE LENGTH = 1356.26 FT		

Figure 8. Inside Thorofare Crossing HDD Plan & Profile

ISSUE FOR PERMIT

<p>CARSON CORPORATION DIRECTIONAL DRILLING CIVIL CONSTRUCTION</p> <p>171 ROUTE 84 N LAYNETT, NJ 973-579-1100</p>		<p>DATE: _____</p> <p>SCALE: _____</p> <p>PROJECT: _____</p> <p>NO. OF SHEETS: _____</p> <p>SHEET NO.: _____</p>
<p>PROJECT INFORMATION</p> <p>PROJECT: ATLANTIC SHORES OFFSHORE WIND COP SOUTH TERRESTRIAL</p> <p>PROJECT NO.: _____</p> <p>DATE: _____</p>		<p>DATE: _____</p> <p>SCALE: _____</p> <p>PROJECT: _____</p> <p>NO. OF SHEETS: _____</p> <p>SHEET NO.: _____</p>
<p>DESIGNER INFORMATION</p> <p>DESIGNER: CARSON CORPORATION</p> <p>DESIGNER'S OFFICE: _____</p> <p>DESIGNER'S ADDRESS: _____</p> <p>DESIGNER'S PHONE: _____</p> <p>DESIGNER'S FAX: _____</p> <p>DESIGNER'S EMAIL: _____</p>		<p>DATE: _____</p> <p>SCALE: _____</p> <p>PROJECT: _____</p> <p>NO. OF SHEETS: _____</p> <p>SHEET NO.: _____</p>
<p>CLIENT INFORMATION</p> <p>CLIENT: PETE PALLITTO FIELD</p> <p>CLIENT'S ADDRESS: _____</p> <p>CLIENT'S PHONE: _____</p> <p>CLIENT'S FAX: _____</p> <p>CLIENT'S EMAIL: _____</p>		<p>DATE: _____</p> <p>SCALE: _____</p> <p>PROJECT: _____</p> <p>NO. OF SHEETS: _____</p> <p>SHEET NO.: _____</p>
<p>PERMIT INFORMATION</p> <p>PERMIT NO.: _____</p> <p>PERMIT DATE: _____</p> <p>PERMIT EXPIRES: _____</p>		<p>DATE: _____</p> <p>SCALE: _____</p> <p>PROJECT: _____</p> <p>NO. OF SHEETS: _____</p> <p>SHEET NO.: _____</p>

FOR ILLUSTRATIVE PURPOSES ONLY



DIRECTIONAL DRILL DATA		
PETE PALLITTO HDD#2		
DESCRIPTION	STATION (ft)	ELEVATION (ft)
ENTRY @ 12°	0+00	0.00
PVI @ 12°	9+38.91	-45.00
EXIT @ 12°	13+00	10.00
USG: 1600' RADIUS @ 12° ENTRY ANGLE = 12.00 FT		
DIRECTIONAL DRILL PIPE LENGTH = 1356.26 FT		

Figure 8. Inside Thorofare Crossing HDD Plan & Profile

ISSUE FOR PERMIT

ATLANTIC SHORES OFFSHORE WIND
COP SOUTH TERRESTRIAL

AWARD NUMBER: 100-000000

PROJECT #:
DRAWING #:
SCALE:
DATE:

DRAWING TITLE:
**PETE PALLITTO FIELD
HDD #2 PLAN AND PROFILE**

DRAWING #:
002

DATE: 11/11/2020

BY: [Signature]

CHECKED: [Signature]

APPROVED: [Signature]

DESIGNER: CARSON CORPORATION
171 ROUTE 74 N LAWRENCE, NJ 07044-5719-100

PROJECT LOCATION: PETE PALLITTO FIELD, THOROFARE, NJ

PROJECT NUMBER: 100-000000

DRAWING NUMBER: 002

SCALE: AS SHOWN

DATE: 11/11/2020

FOR ILLUSTRATIVE PURPOSES ONLY

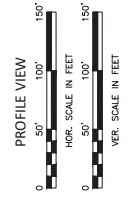
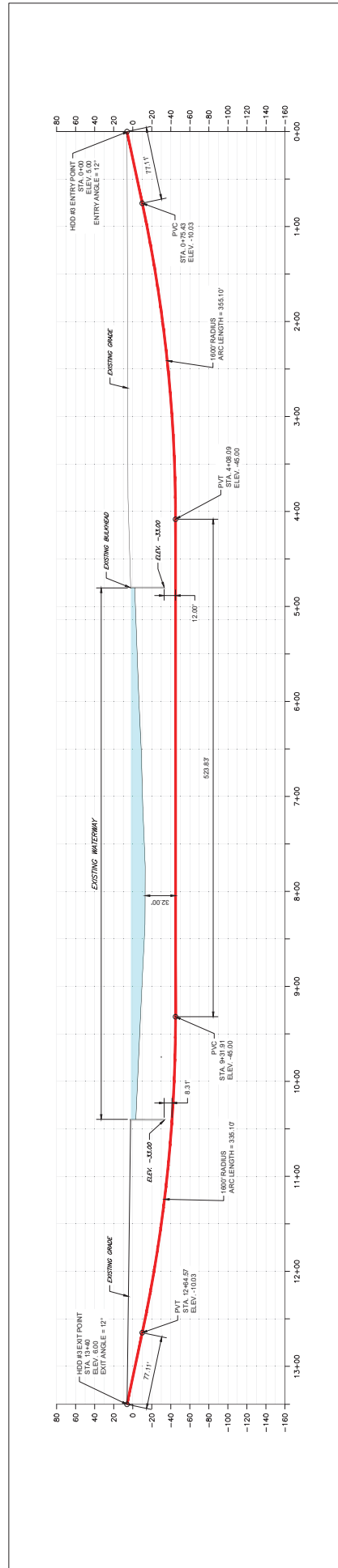
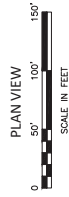
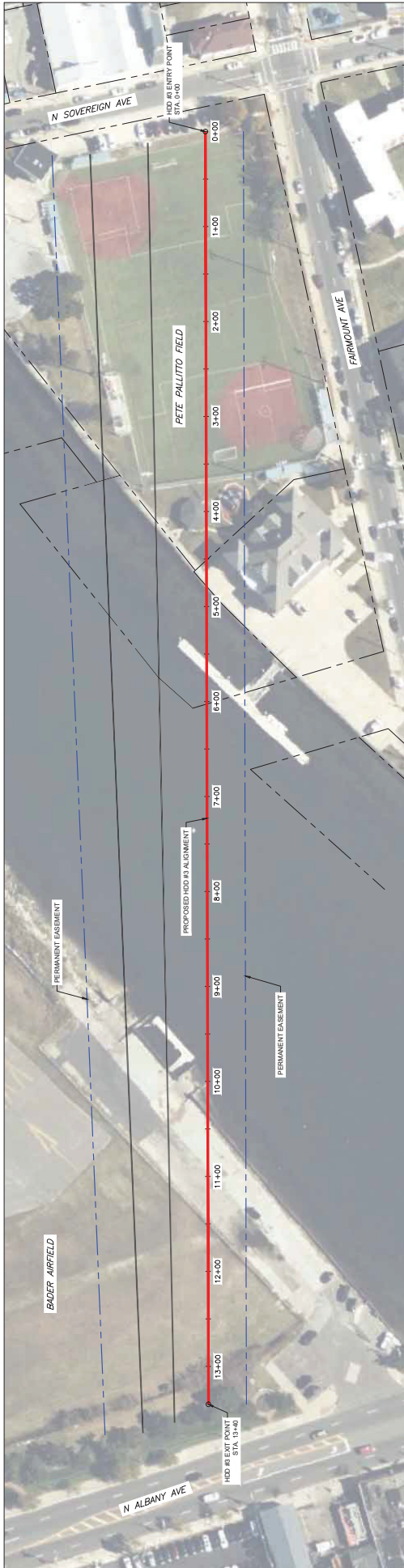


Figure 8. Inside Thorofare Crossing HDD Plan & Profile

ISSUE FOR PERMIT

DIRECTIONAL DRILL DATA		
PETE PALLITTO HDDS		
DESCRIPTION	STATION (ft)	ELEVATION (ft)
ENTRY @ 12° =	0+00	6.00
PCI =	0+75.44	-10.04
PTI =	4+108.10	-45.00
PC2 =	9+31.90	-45.00
PT2 =	12+64.56	-10.04
EXIT @ 12° =	13+40.00	6.00
HORIZONTAL DISTANCE = 1340.09 FT		
DIRECTIONAL DRILL PIPE LENGTH = 1348.26 FT		

PERMIT INFORMATION

ATLANTIC SHORES OFFSHORE WIND
 COP SOUTH TERRESTRIAL

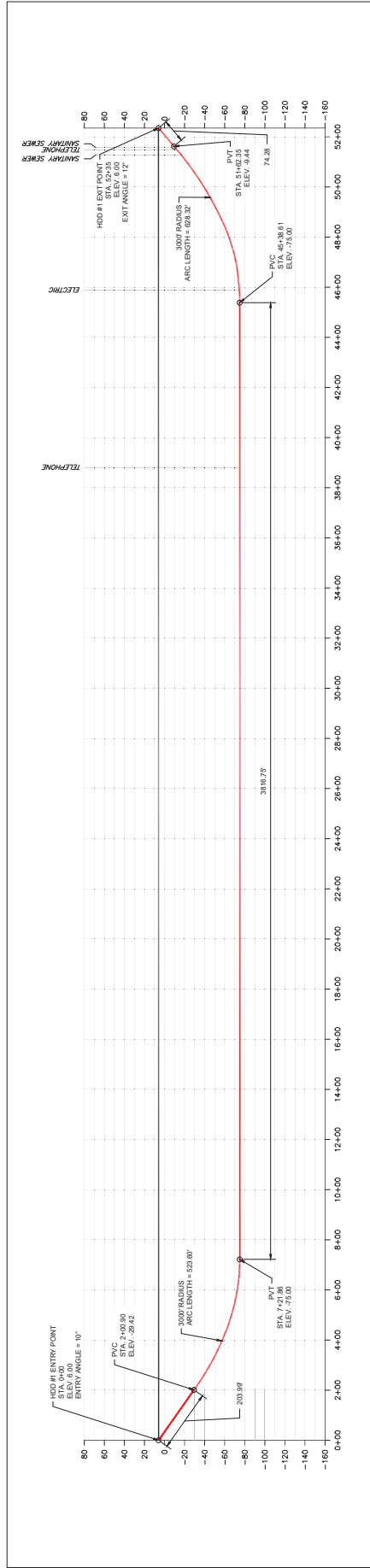
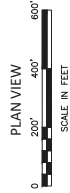
PROJECT NO. 2019-001
 SHEET NO. 16 OF 16

DRAWING TITLES

PETE PALLITTO FIELD
 HDD #3 PLAN AND PROFILE

DRAWING #
 003

FOR ILLUSTRATIVE PURPOSES ONLY



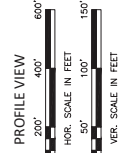
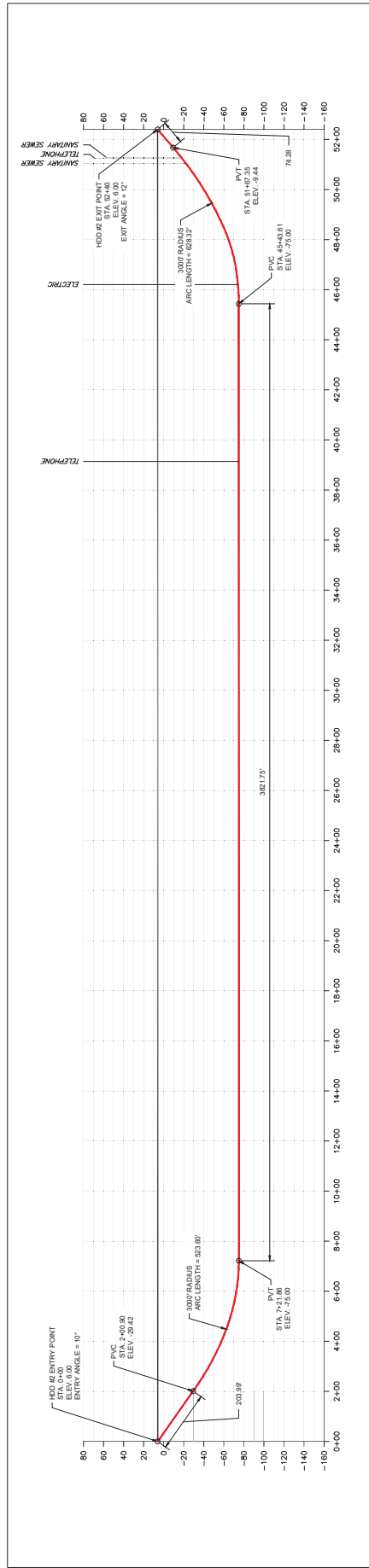
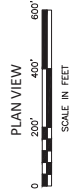
DIRECTIONAL DRILL DATA		
DESCRIPTION	STATION (ft)	ELEVATION (ft)
BADER FIELD TO MARINA HDD#1		
ENTRY @ 10° =	0+00	6.00
PCI =	2+00.90	-29.42
(3000' RADIUS)		
PTI =	7+21.84	-75.00
PC2 =	45+38.61	-75.00
(3000' RADIUS)		
PT2 =	51+62.35	-9.44
EXIT @ 12° =	52+35.00	6.00
HORIZONTAL DISTANCE =	5235.00 FT	
DIRECTIONAL DRILL PIPE LENGTH =	5246.96 FT	

Figure 9. Great Thorfare Crossing #1 HDD Plan and Profile

ISSUE FOR PERMIT

CARSON CORPORATION DIRECTIONAL DRILLING EARTH CONSTRUCTION 171 ROUTE 78 N LAUREL, NJ 07036-5179-1100		DRAWING TITLE: BADER FIELD TO MARINA HDD #1 PLAN AND PROFILE	DRAWING #: 004
PROJECT #: SHEET #: SCALE: DATE:		ATLANTIC SHORES OFFSHORE WIND COP SOUTH TERRESTRIAL ATTENTION:	
DRAWING COORDINATES: HORIZONTAL SCALE 1"=50' VERTICAL SCALE 1"=50' NORTH: AS SHOWN ON SHEET ELEVATION: AS SHOWN ON SHEET HORIZ. SCALE 1"=50' VERT. SCALE 1"=50' MAKE SURE TO INCLUDE ALL PERMITS AND LOCAL REGULATIONS AND ALL NECESSARY FIELD NOTES		DATE: _____ REVISIONS: _____ APPROVED: _____ CHECKED: _____ DESIGNED: _____ DRAWN: _____	

FOR ILLUSTRATIVE PURPOSES ONLY



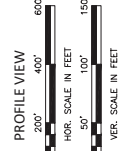
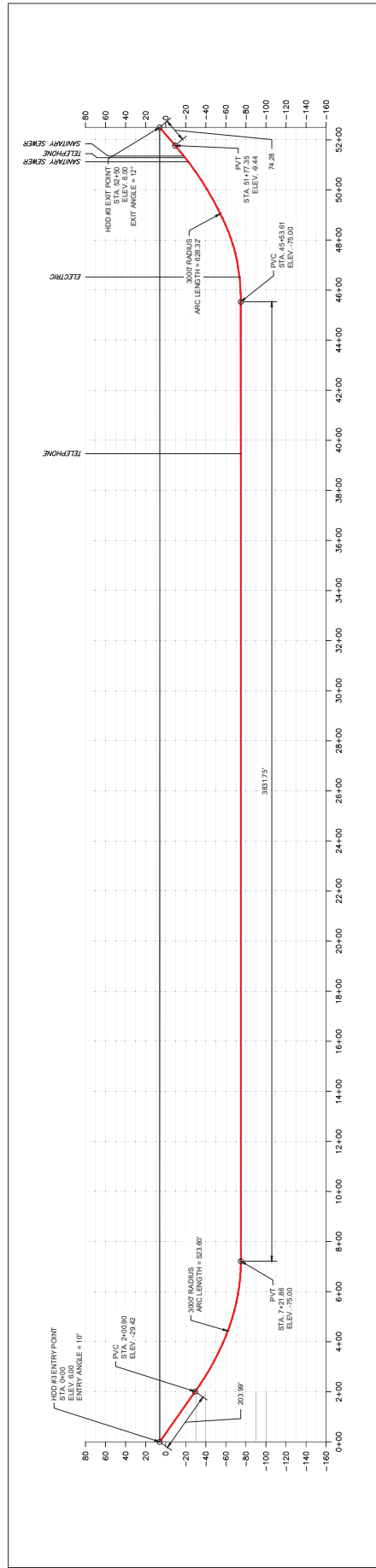
DIRECTIONAL DRILL DATA	
BADER FIELD TO MARINA HDD#2	
DESCRIPTION	STATION (ft)
ENTRY @ 1.0° =	0+00
PCI =	2+00.90
(3000' RADIUS)	
PTI =	7+21.84
PCO =	45+34.61
(3000' RADIUS)	
PT2 =	51+67.35
EXIT @ 1.2° =	52+40.00
HORIZONTAL DISTANCE =	5240.00 FT
DIRECTIONAL DRILL PIPE LENGTH =	5251.96 FT

Figure 9. Great Thorofare Crossing #1 HDD Plan and Profile

ISSUE FOR PERMIT

		DRAWING TITLE: BADER FIELD TO MARINA HDD #2 PLAN AND PROFILE
171 ROUTE 14 N LAUREL, NJ 973-579-1100		DRAWING NO: 005
PROJECT: ATLANTIC SHORES OFFSHORE WIND CLIENT: COP SOUTH TERRESTRIAL		DATE:
DESIGNER: CARSON CORPORATION CHECKER:		SCALE:
APPROVAL:		DATE:

FOR ILLUSTRATIVE PURPOSES ONLY



DIRECTIONAL DRILL DATA			
BADGER FIELD TO MARINA HDD#3			
DESCRIPTION	STATION (FT)	ELEVATION (FT)	
ENTRY @ 10° =	0+00	6.00	
PC1 =	2+00.90	-29.42	
PT1 =	7+21.84	-75.00	
PC2 =	45+53.61	-75.00	
PT2 =	51+27.35	-9.44	
EXIT @ 10° =	52+00.00	6.00	
HORIZONTAL DISTANCE = 5250.00 FT			
DIRECTIONAL DRILL PIPE LENGTH = 5263.96 FT			

Figure 9. Great Thorfare Crossing #1 HDD Plan and Profile

ISSUE FOR PERMIT

CARSON CORPORATION
DIRECTIONAL DRILLING | EARTH CONSTRUCTION

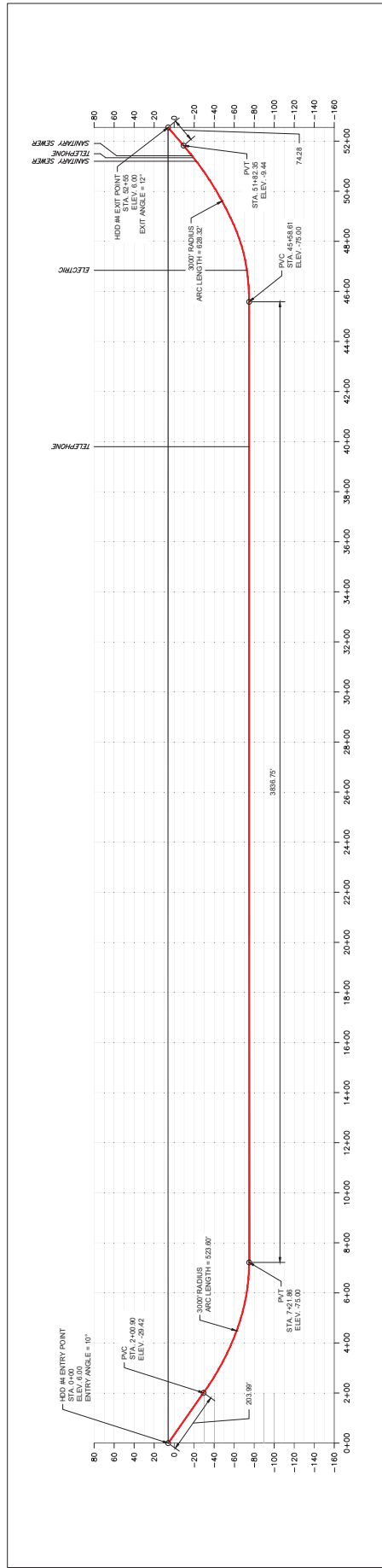
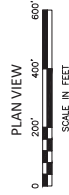
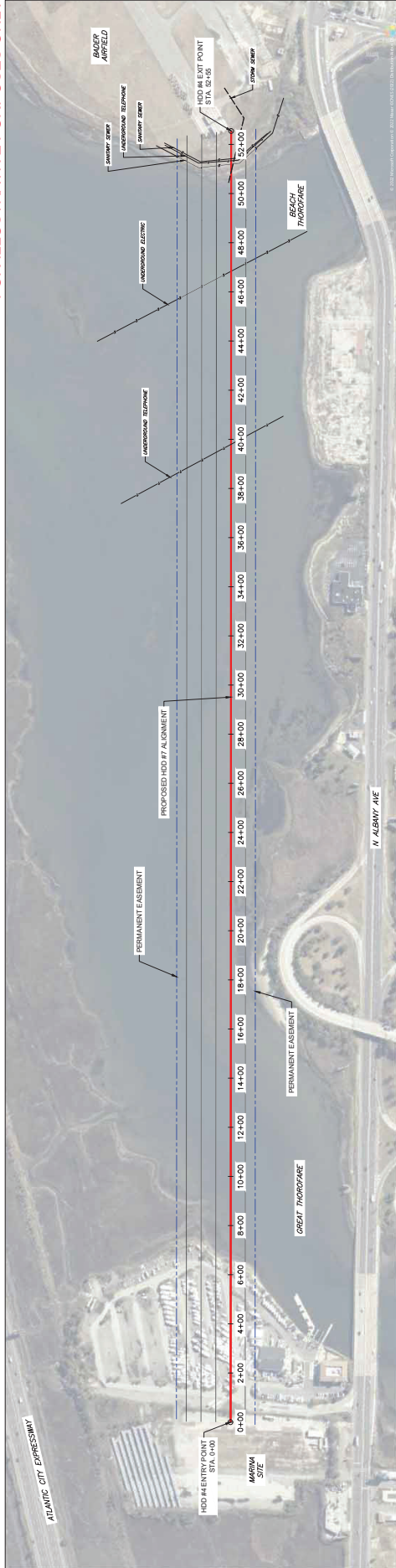
171 ROOSE BL. N. LAUREL, NJ 07036-5910 | 973-579-1100

ATLANTIC SHORES OFFSHORE WIND
COP SOUTH TERRESTRIAL

DRAWING TITLE:
BADGER FIELD TO MARINA
HDD #3 PLAN AND PROFILE

DRAWING NO. **006**

FOR ILLUSTRATIVE PURPOSES ONLY



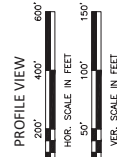
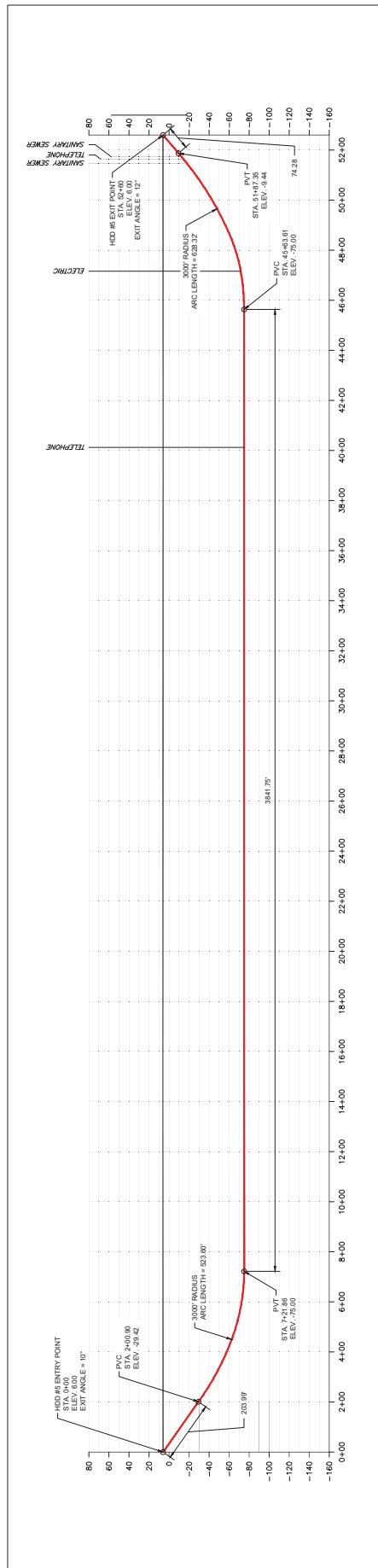
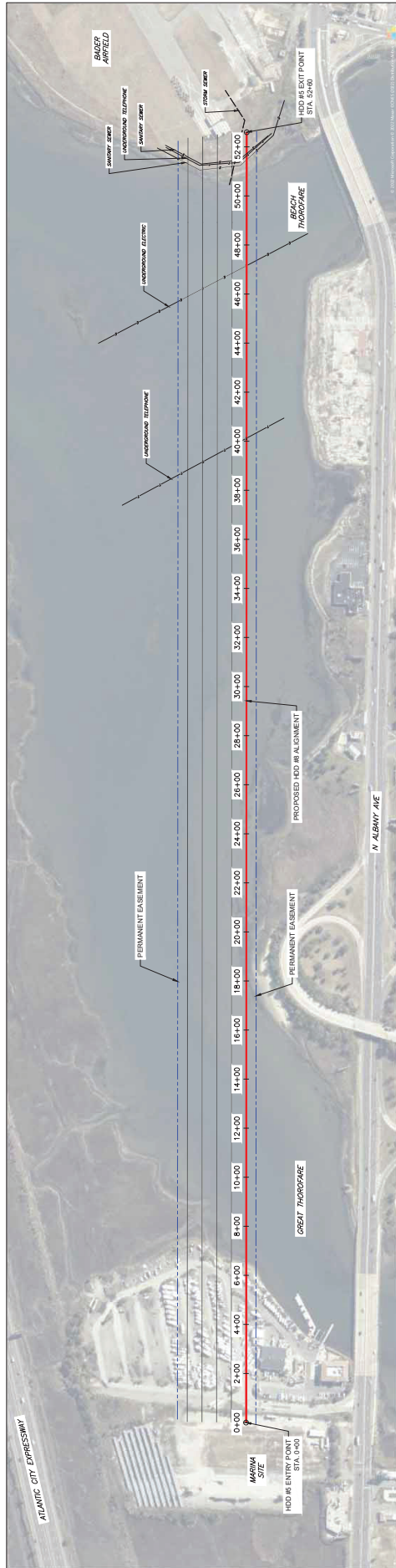
DIRECTIONAL DRILL DATA		
STATION	STATION (1)	ELEVATION (1)
START	0+00	6.00
END	52+00	6.00
PC1	2+00.50	-29.42
PT1	7+21.84	-75.00
PC2	45+58.61	-75.00
PT2	51+82.35	-9.44
EXIT @ 12"	52+55.00	6.00
HORIZONTAL DISTANCE = 5255.00 FT		
DIRECTIONAL DRILL PIPE LENGTH = 5286.56 FT		

Figure 9. Great Thorofare Crossing #1 HDD Plan and Profile

ISSUE FOR PERMIT

<p>DATE: 11/15/2023</p> <p>PROJECT: ATLANTIC SHORES OFFSHORE WIND COP SOUTH TERRESTRIAL</p> <p>SCALE: 1"=100'</p> <p>DATE: 11/15/2023</p> <p>SCALE: 1"=100'</p> <p>DATE: 11/15/2023</p> <p>SCALE: 1"=100'</p>	<p>DRAWING TITLE: BADER FIELD TO MARINA HDD #1 PLAN AND PROFILE</p> <p>DRAWING NO: 007</p>
<p>DESIGNER: CARSON CORPORATION</p> <p>PROJECT NO: ATLANTIC SHORES OFFSHORE WIND COP SOUTH TERRESTRIAL</p> <p>SCALE: 1"=100'</p> <p>DATE: 11/15/2023</p>	<p>DATE: 11/15/2023</p> <p>SCALE: 1"=100'</p> <p>DATE: 11/15/2023</p> <p>SCALE: 1"=100'</p>

FOR ILLUSTRATIVE PURPOSES ONLY



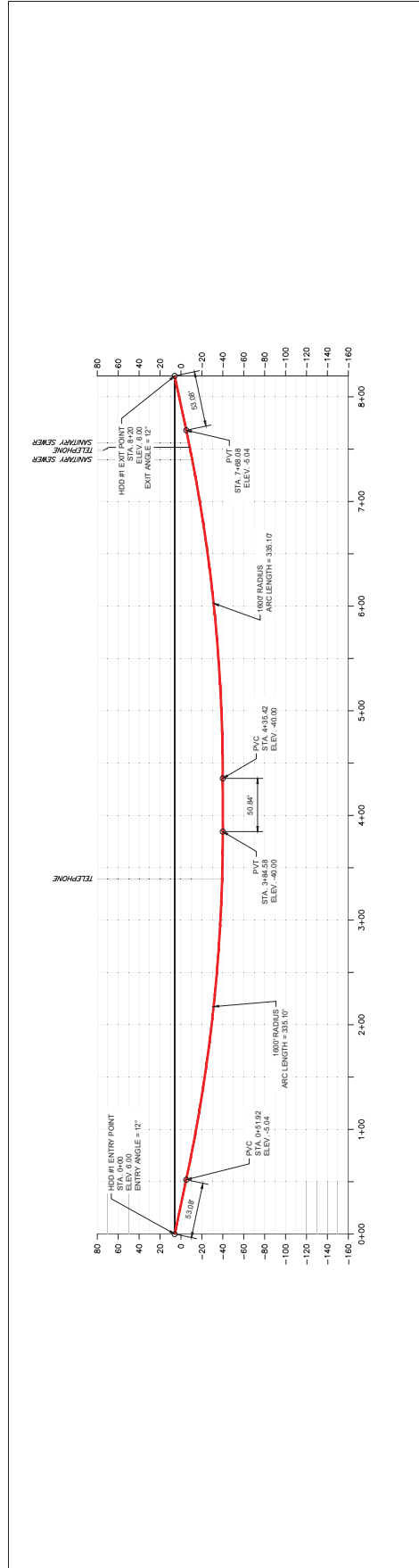
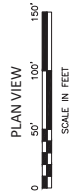
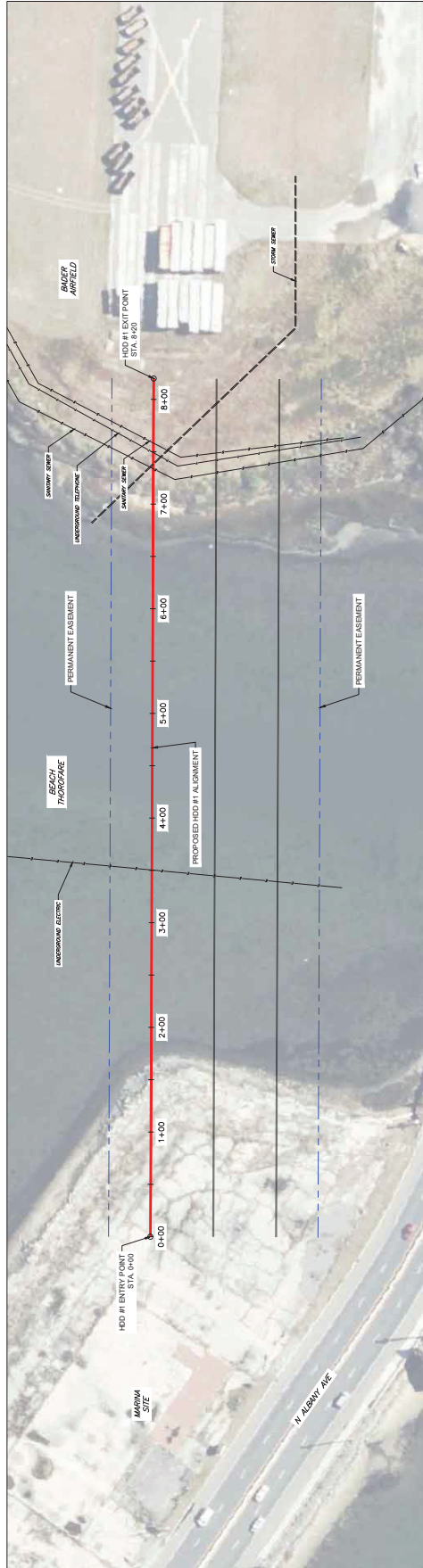
DIRECTIONAL DRILL DATA		
DESCRIPTION	STATION (ft)	ELEVATION (ft)
ENTRY @ 10° =	0+00	6.00
3000' RADIUS	2+00.00	-29.42
PVI =	14+00.00	-20.99
PVT =	26+00.00	-75.00
3000' RADIUS	50+00.00	-75.00
PT2 =	52+00.00	-9.44
EXIT @ 12° =	52+00.00	6.00
HORIZONTAL DISTANCE = 5260.00 FT		
DIRECTIONAL DRILL PIPE LENGTH = 5271.96 FT		

Figure 9. Great Thoro fare Crossing #1 HDD Plan and Profile

ISSUE FOR PERMIT

CARSON CORPORATION DIRECTIONAL DRILLING CIVIL CONSTRUCTION 171 HOPE PL. N. LAYETTE, LA 70508 972-579-1100		DRAWING TITLE: BADER FIELD TO MARINA HDD #1 PLAN AND PROFILE
PROJECT #: SHEET #: DATE:		DRAWING #: 008
ATLANTIC SHORES OFFSHORE WIND COP SOUTH TERRESTRIAL		
PERMITS: STATE: _____ LOCAL: _____		
SPECIAL SPECIFICATIONS: NONE		
HAVE DRILLED IN THIS AREA PER STATE & LOCAL AGENCIES HAVE DRILLED IN THIS AREA PER STATE & LOCAL AGENCIES		
REMARKS: COORDINATES: HORIZONTAL SCALE: 1"=100' VERTICAL SCALE: 1"=10' NORTH: TRUE NORTH UTM ZONE: 18N UTM ELEVATION: 1000		

FOR ILLUSTRATIVE PURPOSES ONLY



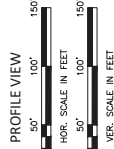
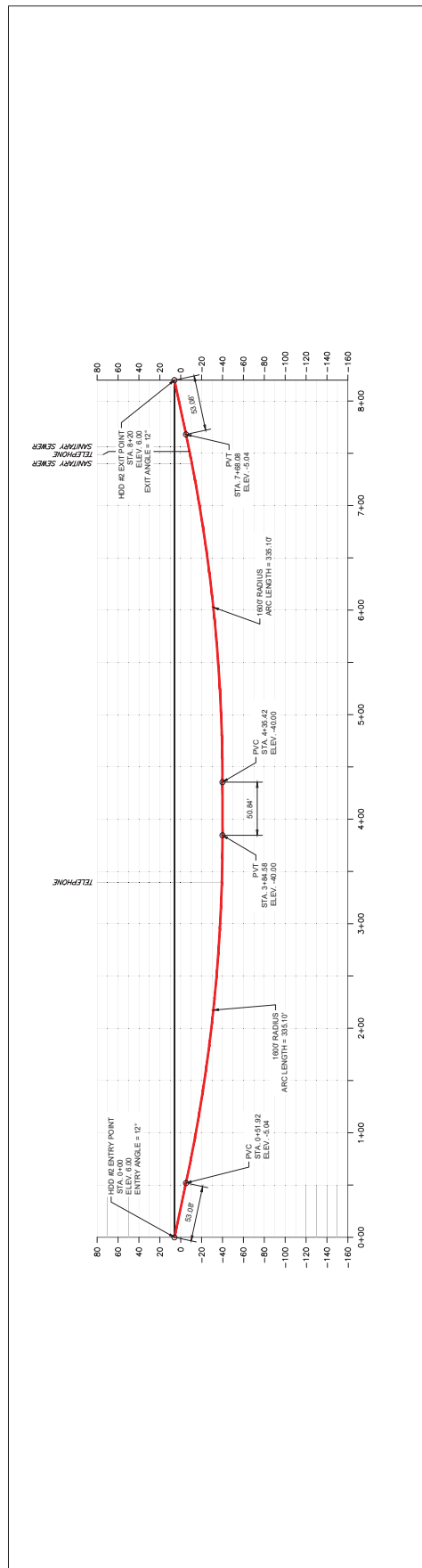
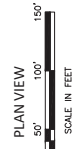
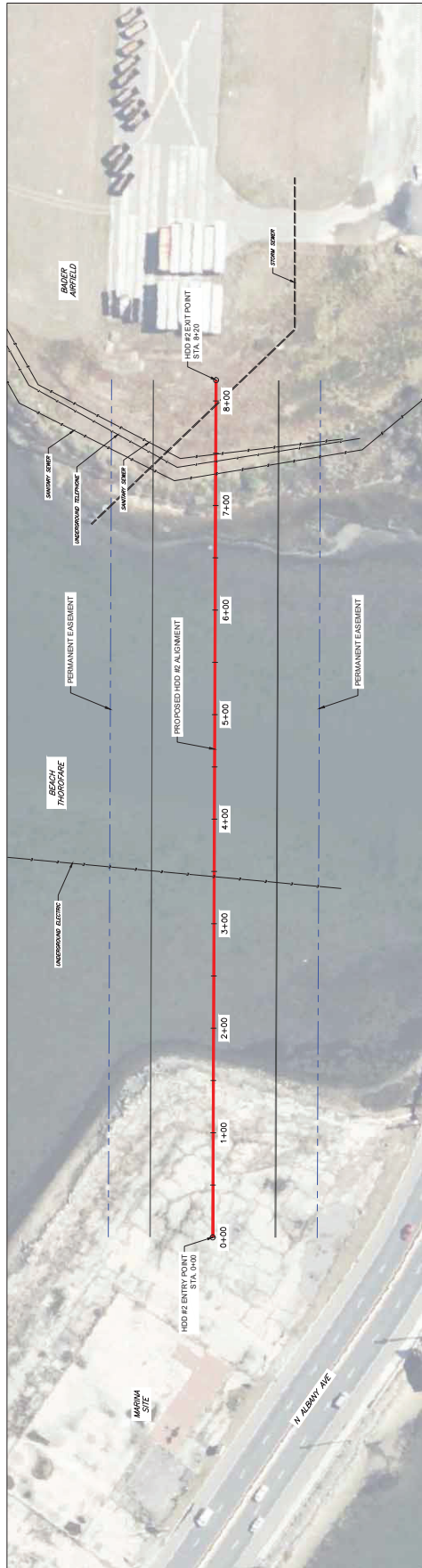
DIRECTIONAL DRILL DATA		
BADER FIELD TO EMPTY LOT HDD#1		
DESCRIPTION	STATION (ft)	ELEVATION (ft)
ENTRY @ 12°	0+00	6.00
PCL = (1600' RADIUS)		
PCL	0+51.92	-5.04
PTI = (1600' RADIUS)		
PTI	3+48.97	-40.00
PC2 = (1600' RADIUS)		
PC2	4+35.42	-40.00
PTZ = (1600' RADIUS)		
PTZ	7+46.04	-5.04
EXIT @ 12°		
EXIT	8+00.00	6.00
HORIZONTAL DISTANCE = 820.00 FT		
DIRECTIONAL DRILL PIPE LENGTH = 827.21 FT		

Figure 10. Great Thoroare Crossing #2 HDD Plan & Profile

ISSUE FOR PERMIT

DRAWING TITLE: BADER FIELD TO EMPTY LOT HDD #1 PLAN AND PROFILE		DRAWING #: 009
PROJECT #: SHEET #: SCALE: DATE:		
PROJECT LOCATION: ATLANTIC SHORES OFFSHORE WIND COP SOUTH TERRESTRIAL		
PROJECT DESCRIPTION: HORIZONTAL SCALE: 1"=50' VERTICAL SCALE: 1"=50' HORIZ. ANGLE: 12° EXIT ANGLE: 12° HORIZ. DIST: 820.00 FT HORIZ. DIST: 820.00 FT		
PROJECT OWNER: PROJECT ENGINEER: PROJECT CHECKER: PROJECT DATE:		
PROJECT ADDRESS: 171 ROUTE 88 N LAYFETTE, NJ 07541-5710		
PROJECT PHONE: 973-579-1100		

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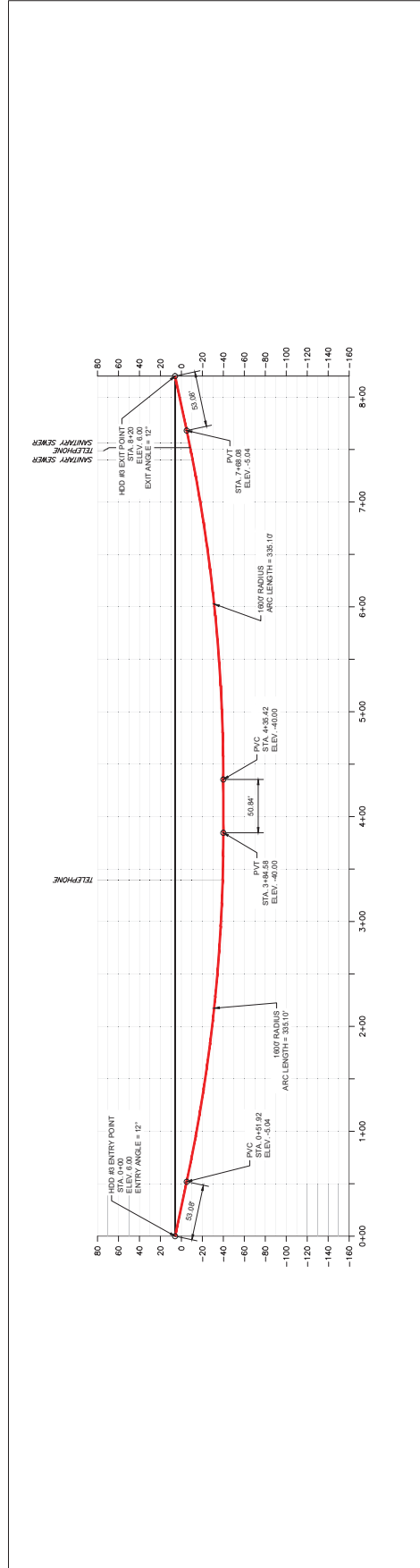
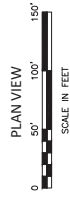
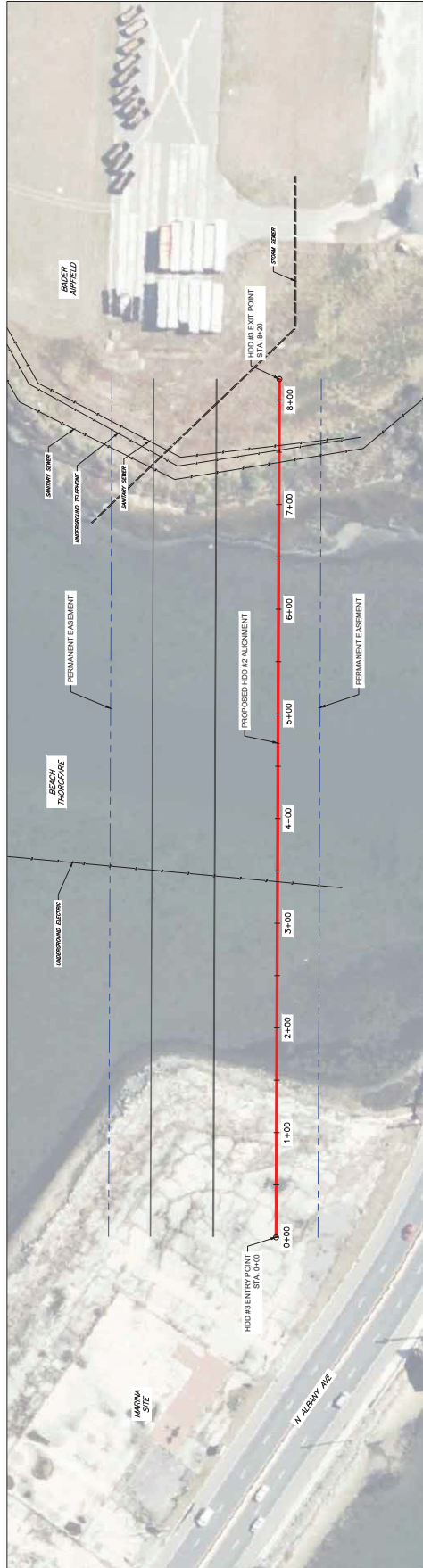
DIRECTIONAL DRILL DATA	
BADER FIELD TO EMPTY LOT HDD#2	
DESCRIPTION	STATION (ft) ELEVATION (ft)
ENTRY @ 12° =	0+00 6.00
PCL =	0+51.92 -5.04
PVI =	3+48.58 -40.00
PCZ =	4+35.42 -40.00
PTZ =	7+48.08 -5.04
EXIT @ 12° =	8+00.00 6.00
HORIZONTAL DISTANCE = 820.00 FT	
DIRECTIONAL DRILL PIPE LENGTH = 827.21 FT	

Figure 10. Great Thorofare Crossing #2 HDD Plan & Profile

ISSUE FOR PERMIT

<p>DATE: _____</p> <p>PROJECT: _____</p> <p>SCALE: _____</p> <p>DATE: _____</p>	<p>ATLANTIC SHORES OFFSHORE WIND COP SOUTH TERRESTRIAL</p> <p>PROJECT NO. _____</p> <p>DATE: _____</p>	<p>DRAWING TITLE: BADER FIELD TO EMPTY LOT HDD #2 PLAN AND PROFILE</p> <p>DRAWING NO. _____</p> <p style="text-align: right; font-size: 24pt; font-weight: bold;">010</p>
<p>171 ROUTE 78 N LAYFETTE, NJ 973-579-1100</p>		

FOR ILLUSTRATIVE PURPOSES ONLY



DIRECTIONAL DRILL DATA		
BADER FIELD TO EMPTY LOT HDD#3	STATION (ft)	ELEVATION (ft)
ENTRY @ 12° =	0+00	6.00
PVI =	3+48.58	-40.00
PTC =	4+35.42	-40.00
PT2 =	7+68.08	-5.04
EXIT @ 12° =	8+20.00	6.00
HORIZONTAL DISTANCE = 820.00 FT		
DIRECTIONAL DRILL PIPE LENGTH = 827.21 FT		

Figure 10. Great Thorofare Crossing #2 HDD Plan & Profile

ISSUE FOR PERMIT

PROJECT #	DATE
DRAWING #	SCALE
DATE	BY
DATE	BY
DATE	BY

ATLANTIC SHORES OFFSHORE WIND COP SOUTH TERRESTRIAL
PROJECT #
DATE
BY
DATE
BY

DRAWING TITLE:	BADER FIELD TO EMPTY LOT HDD #3 PLAN AND PROFILE
DATE	
BY	
CHECKED	
DATE	
BY	

DRAWING COORDINATES	VERTICAL SCALE: 1"=10'	HORIZONTAL SCALE: 1"=100'
DATE	BY	DATE
BY	DATE	BY

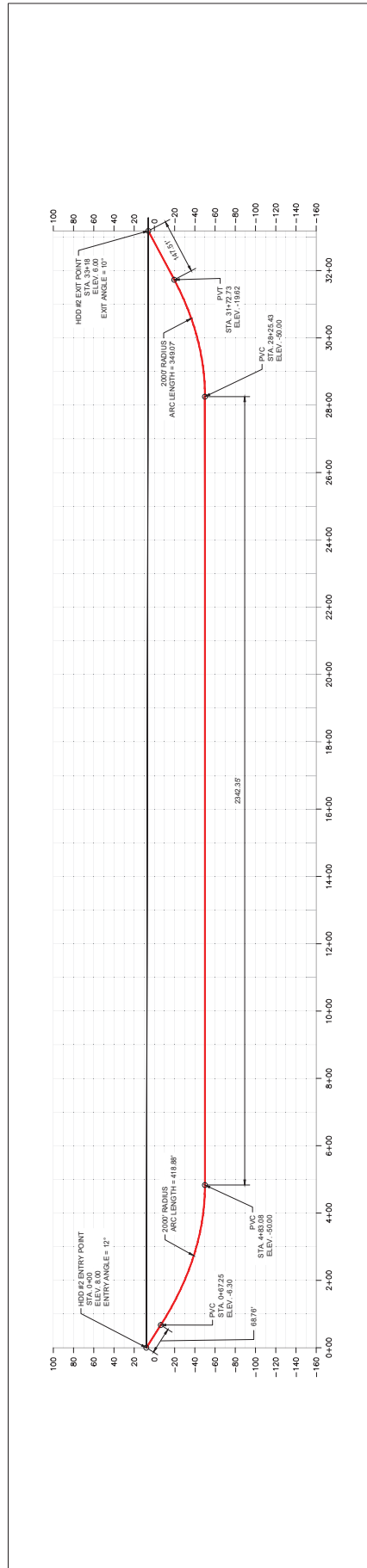
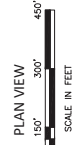
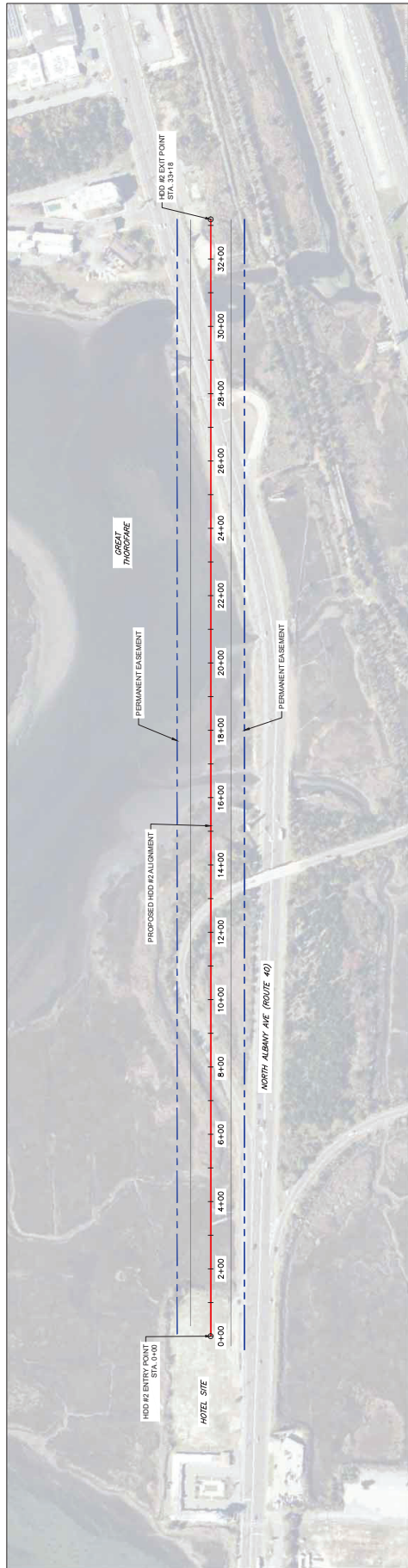
CARSON CORPORATION
DIRECTIONAL DRILLING | EVAL CONSTRUCTION

171 ROUTE 24 N LAYNETT, NJ 07925-579-1100

PROJECT #	DATE
DRAWING #	SCALE
DATE	BY
DATE	BY

PROJECT #	DATE
DRAWING #	SCALE
DATE	BY
DATE	BY

FOR ILLUSTRATIVE PURPOSES ONLY



DIRECTIONAL DRILL DATA		
ROUTE #0 HDD#2	STATION (ft)	ELEVATION (ft)
ENTRY @ 12° =	0+00	8.00
PCL =	0+67.25	-6.30
PTI =	4+83.08	-50.00
PCZ =	28+25.43	-50.00
PTZ =	31+72.73	-19.62
EXIT @ 10° =	33+18.00	6.00
HORIZONTAL DISTANCE = 3316.00 FT		
DIRECTIONAL DRILL PIPE LENGTH = 3326.57 FT		

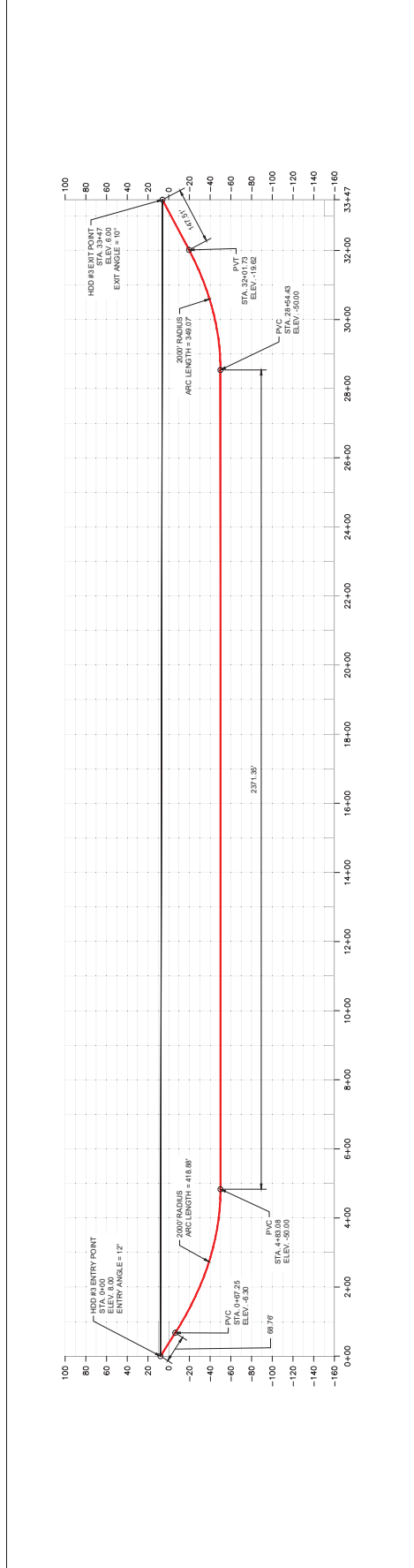
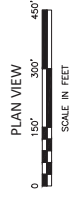
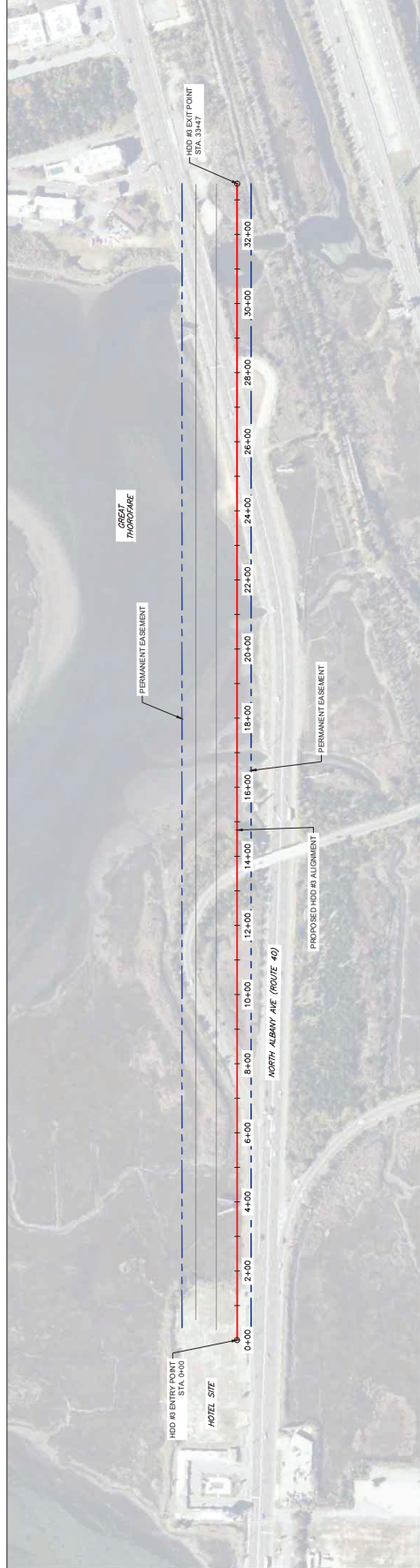
Figure 11. Great Thorofare Crossing #3 HDD Plan & Profile

ISSUE FOR PERMIT

		PROJECT # DRAWING # DATE
CARSON CORPORATION DIRECTIONAL DRILLING EVAL CONSTRUCTION		DRAWING TITLE: ROUTE #0 CROSSING HDD #2 PLAN AND PROFILE
DRAWING COORDINATES HORIZONTAL SCALE: 1"=150' VERTICAL SCALE: 1"=50' NORTH ARROW: TO THE RIGHT OF SHEET		PROJECT # DRAWING # DATE
PROJECT # DRAWING # DATE		DRAWING # DATE

016

FOR ILLUSTRATIVE PURPOSES ONLY



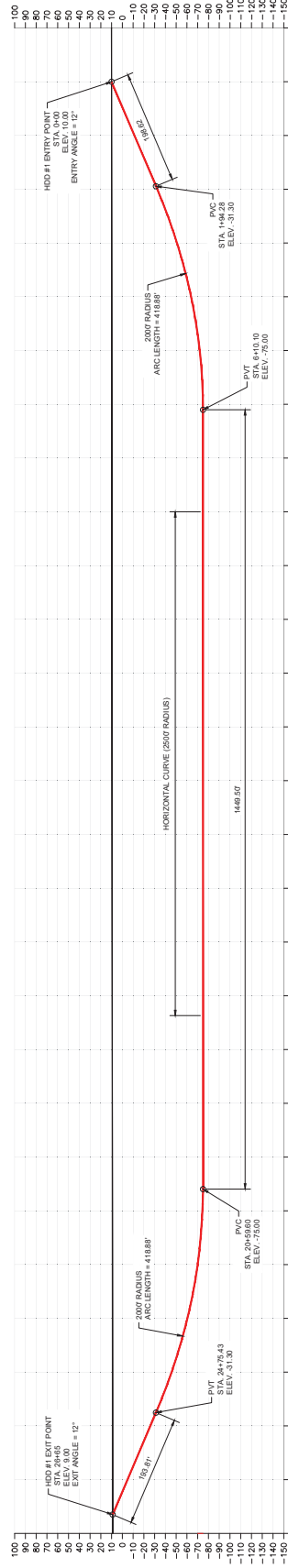
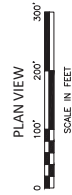
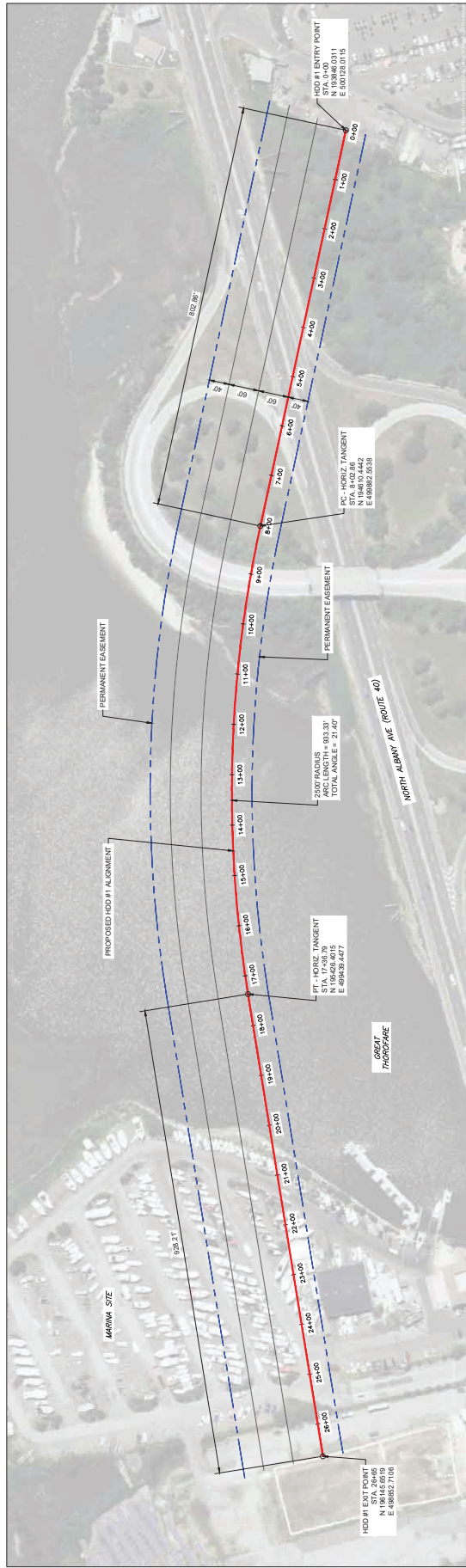
DIRECTIONAL DRILL DATA		
ROUTE 40 HDD#3	STATION (FT)	ELEVATION (FT)
DESCRIPTION	0+00	8.00
ENTRY @ 12°		
PCI =	0+67.25	-6.30
(2000' RADIUS)		
PTI =	4+83.08	-50.00
PC =	28+54.43	-50.00
(2000' RADIUS)		
PT2 =	32+01.73	-19.62
EXIT @ 10°	33+47.00	6.00
HORIZONTAL DISTANCE = 3347.00 FT		
DIRECTIONAL DRILL PIPE LENGTH = 3355.57 FT		

Figure 11. Great Thorofare Crossing #3 HDD Plan & Profile

ISSUE FOR PERMIT

<p>DATE: 08/20/2024</p> <p>PROJECT: 24-0000</p> <p>SCALE: AS SHOWN</p> <p>DATE: 08/20/2024</p>	<p>DRAWING: E</p> <p>017</p>
<p>ATLANTIC SHORES OFFSHORE WIND</p> <p>COP SOUTH TERRESTRIAL</p> <p>PROJECT NO: 24-0000</p>	
<p>DRAWING TITLE:</p> <p>ROUTE 40 CROSSING</p> <p>HDD #3 PLAN AND PROFILE</p>	
<p>DATE: 08/20/2024</p> <p>BY: [Signature]</p> <p>CHECKED: [Signature]</p>	
<p>DESIGNER: CARSON CORPORATION</p> <p>PROJECT NO: 24-0000</p> <p>PROJECT NAME: ATLANTIC SHORES OFFSHORE WIND COP SOUTH TERRESTRIAL</p> <p>PROJECT LOCATION: 171 ROUTE 40 N, LAUREL, NJ</p> <p>PROJECT PHONE: 973-579-1100</p>	

FOR ILLUSTRATIVE PURPOSES ONLY



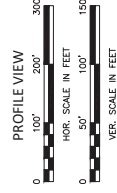
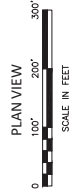
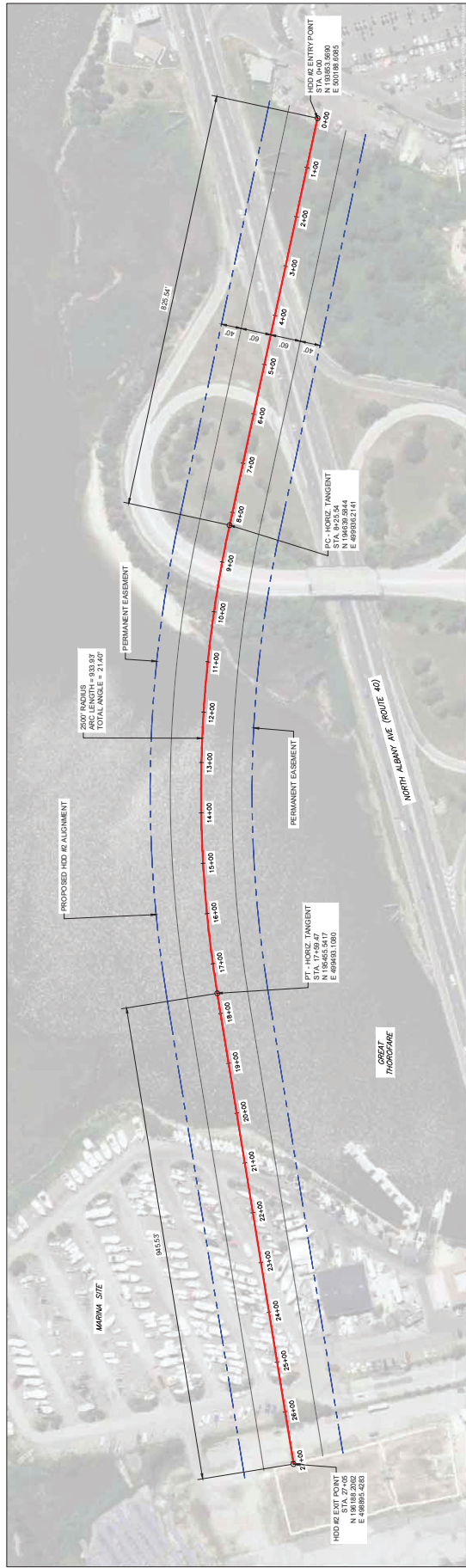
DIRECTIONAL DRILL DATA	
AC HIGH SCHOOL ALTERNATE HDD #1	
DESCRIPTION	STATION (ft)
ENTRY @ 12° =	ELEVATION (ft)
PVCI =	10.00
(2000' RADIUS)	
PVT1 =	1,942.28
	31.30
PVI1 =	6+10.10
	-75.00
PVT2 =	8+02.96
(2500' RADIUS)	
PVI2 =	17+50.79
	-75.00
PVT3 =	20+58.60
(2000' RADIUS)	
PVI3 =	24+75.43
	-31.30
PVT4 =	26+65
EXIT @ 12° =	9.00
HORIZONTAL DISTANCE = 2,665.00 FT	
DIRECTIONAL DRILL PIPE LENGTH = 2,679.69 FT	

Figure 12. Great Thorofare Crossing #4 HDD Plan & Profile

ISSUE FOR PERMIT

<p>DRAINAGE COORDINATES</p> <p>HORIZONTAL DATA: NAD 83, UTM ZONE 18Q, UTM EASTING, UTM NORTHING</p> <p>VERTICAL DATA: NAD 83, UTM ZONE 18Q, UTM EASTING, UTM NORTHING</p> <p>DATE: 11/15/2024</p>	<p>PROJECT #</p> <p>DATE</p> <p>SCALE</p> <p>DATE</p>	<p>DRAWING TITLE:</p> <p>AC ELECTRIC ALTERNATE</p> <p>HDD #1 PLAN AND PROFILE</p>
<p>CARSON CORPORATION</p> <p>DIRECTIONAL DRILLING CIVIL CONSTRUCTION</p> <p>171 ROUTE 24 N, LAWYETTE, NJ 07041 973-579-1100</p>		

FOR ILLUSTRATIVE PURPOSES ONLY



DIRECTIONAL DRILL DATA		
AC HIGH SCHOOL ALTERNATE HDD #2		
DESCRIPTION	STATION (FT)	ELEVATION (FT)
ENTRY @ 12° =	0	10.00
PVCI =	1+17.79	-31.40
(1600' RADIUS)		
PVI =	4+50.44	-75.00
(1600' RADIUS)		
PVI =	5+63.23	-75.00
(2000' RADIUS)		
PVI =	16+99.88	-75.00
(2000' RADIUS)		
PVI =	23+59.26	-75.00
(2000' RADIUS)		
PVI =	26+71.92	-31.40
EXIT @ 12° =	27+85	9.00
HORIZONTAL DISTANCE = 2,785.00 FT		
DIRECTIONAL DRILL PIPE LENGTH = 2,795.05 FT		

Figure 12. Great Thoroare Crossing #4 HDD Plan & Profile

ISSUE FOR PERMIT

DATE: 11/15/2024

PROJECT #: 24-001

SCALE: AS SHOWN

DATE: 11/15/2024

PROJECT #: 24-001

SCALE: AS SHOWN

DRAWING #: 019

DRAWING TITLE: AC ELECTRIC ALTERNATE HDD #2 PLAN AND PROFILE

PROJECT: ATLANTIC SHORES OFFSHORE WIND COP SOUTH TERRESTRIAL

DRAWING COORDINATES: ATLANTIC SHORES OFFSHORE WIND COP SOUTH TERRESTRIAL

PROJECT: ATLANTIC SHORES OFFSHORE WIND COP SOUTH TERRESTRIAL

SCALE: AS SHOWN

DATE: 11/15/2024

PROJECT #: 24-001

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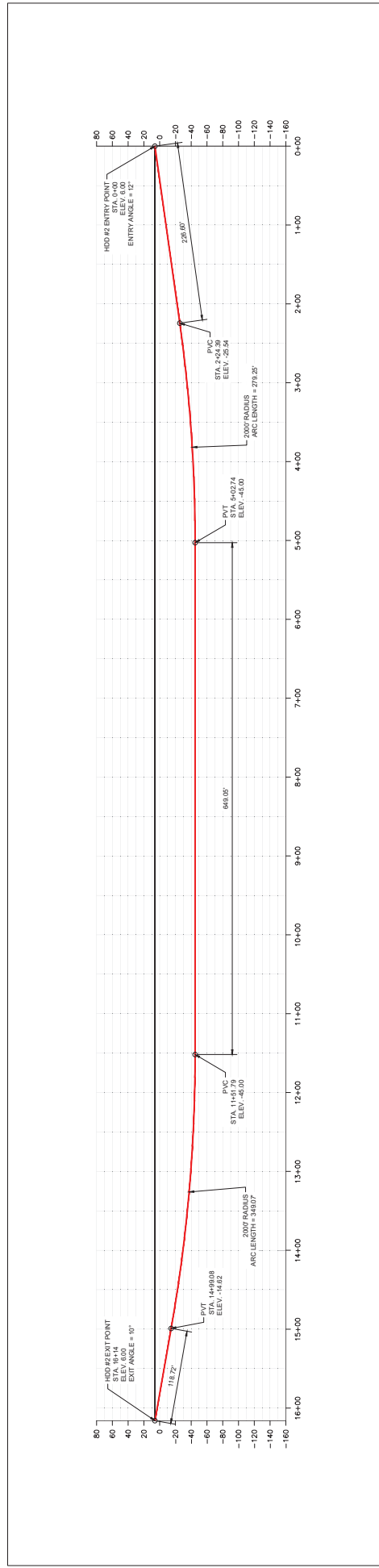
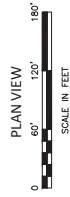
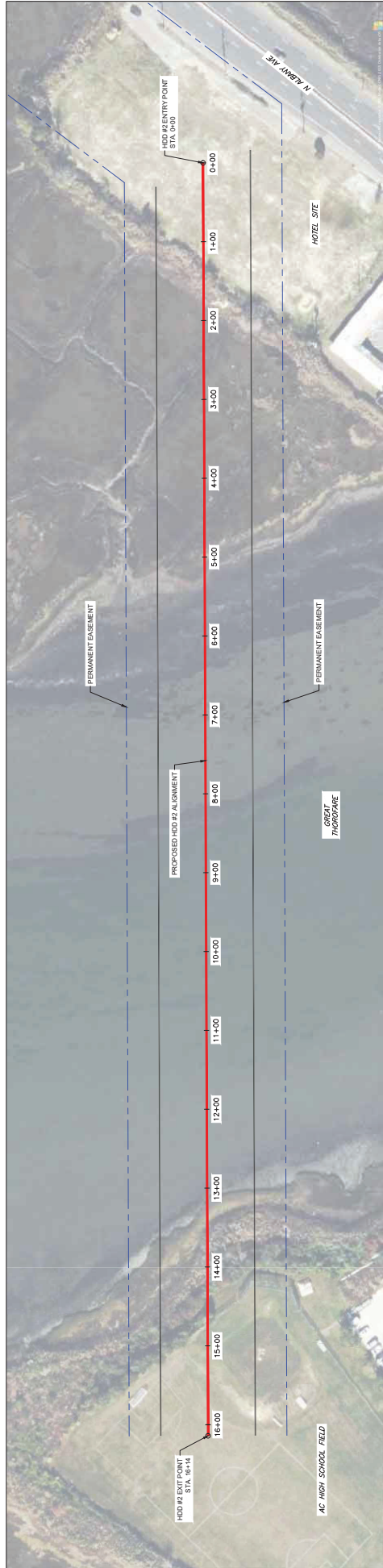
PROJECT #: 24-001

SCALE: AS SHOWN

DATE: 11/15/2024

PROJECT #: 24-00

FOR ILLUSTRATIVE PURPOSES ONLY



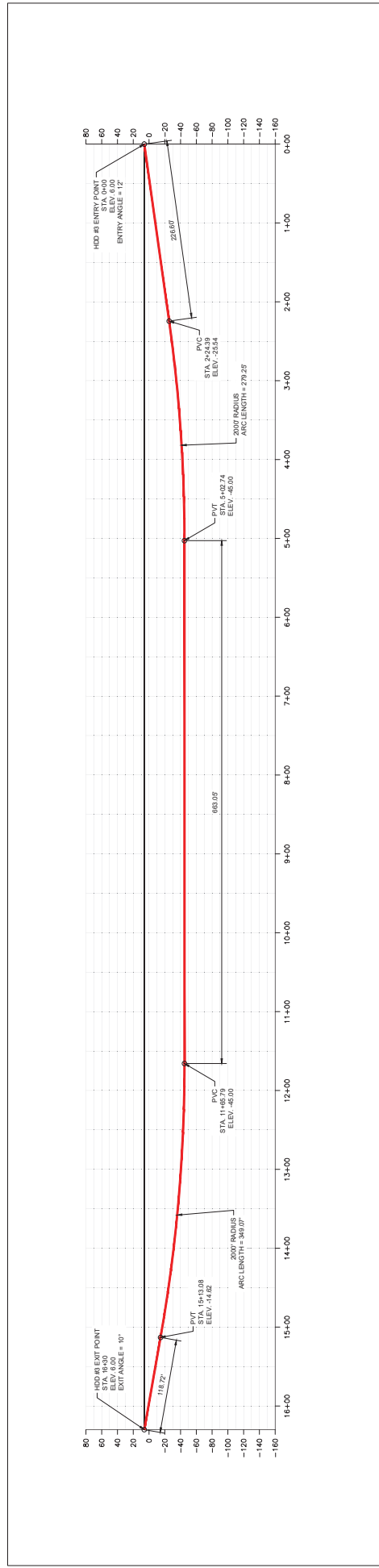
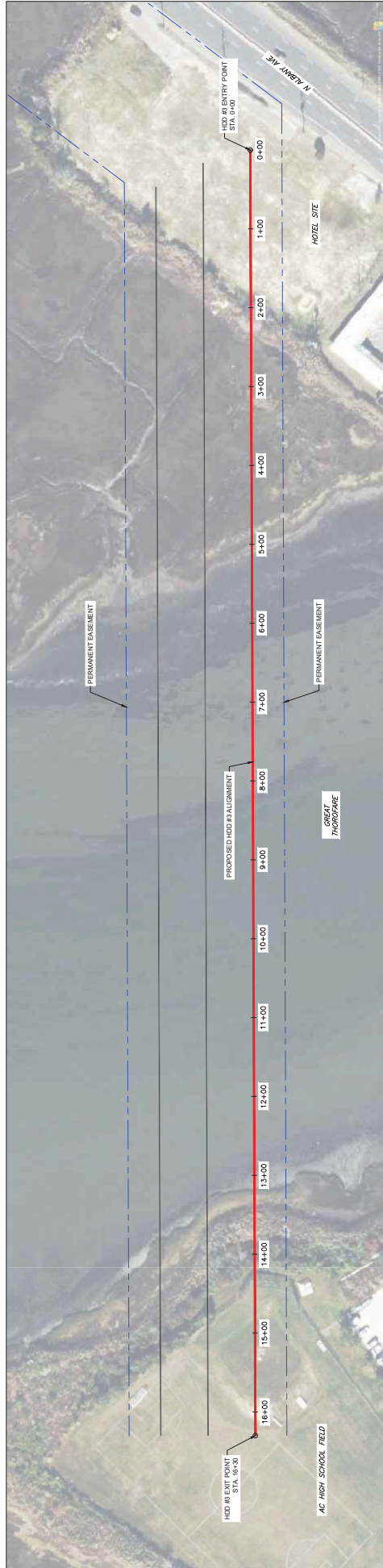
DIRECTIONAL DRILL DATA		
DESCRIPTION	STATION (ft)	ELEVATION (ft)
ENTRY @ 12°	0+00	6.00
PC1 = (2000' RADIUS)	2+24.39	-25.54
PT1 =	5+02.74	-45.00
PC2 = (2000' RADIUS)	11+51.79	-45.00
PT2 =	14+99.08	-44.62
EXIT @ 10°	16+14.00	6.00
HORIZONTAL DISTANCE = 1614.00 FT		
DIRECTIONAL DRILL PIPE LENGTH = 1622.68 FT		

Figure 13. Great Thorofare Crossing #5 HDD Plan & Profile

ISSUE FOR PERMIT

PROJECT #	DATE	SCALE	BY	CHECKED
DRAWING TITLE				
ATLANTIC SHORES OFFSHORE WIND COP SOUTH TERRESTRIAL				
DRAWING #				
AC HIGH SCHOOL TO HOTEL HDD #2 PLAN AND PROFILE				
DRAWING 013				
DRAWING COORDINATES HORIZONTAL SCALE: 1"=100' VERTICAL SCALE: 1"=60' NORTH: AS SHOWN ON THE PLAN DATE: 11/11/2014 TIME: 10:00 AM PROJECT: AC HIGH SCHOOL TO HOTEL HDD #2 PLAN AND PROFILE DRAWING: 013				
CARSON CORPORATION DIRECTIONAL DRILLING EARTH CONSTRUCTION 171 ROUTE 14 N LAYETTE, LA 70501 972-579-4100				

FOR ILLUSTRATIVE PURPOSES ONLY



DIRECTIONAL DRILL DATA	
AC HIGH SCHOOL TO HOTEL HDD#3	
DESCRIPTION	STATION (ft) ELEVATION (ft)
ENTRY @ 12° =	0+00 6.00
PCL =	2+24.39 23.54
(2000' RADIUS)	
PTI =	5+02.74 45.00
PC2 =	11+65.79 45.00
(2000' RADIUS)	
PTZ =	15+13.08 14.62
EXIT @ 10° =	16+30.00 6.00
HORIZONTAL DISTANCE = 1630.00 FT	
DIRECTIONAL DRILL PIPE LENGTH = 1637.40 FT	

Figure 13. Great Thorfare Crossing #5 HDD Plan & Profile

ISSUE FOR PERMIT

<p>DATE: 08/11/2023</p> <p>PROJECT: AC HIGH SCHOOL TO HOTEL</p> <p>SCALE: 1"=60'</p> <p>NO.: 014</p>	<p>PROJECT: ATLANTIC SHORES OFFSHORE WIND COP SOUTH TERRESTRIAL</p> <p>DATE: 08/11/2023</p> <p>SCALE: 1"=60'</p> <p>NO.: 014</p>	<p>DRAWING TITLE: AC HIGH SCHOOL TO HOTEL HDD #3 PLAN AND PROFILE</p> <p>DRAWING NO.: 014</p>
<p>CARSON CORPORATION DIRECTIONAL DRILLING EARTH CONSTRUCTION</p> <p>171 ROUTE 84 N LAMARVILLE, GA 30253-5719 972-579-1100</p>		