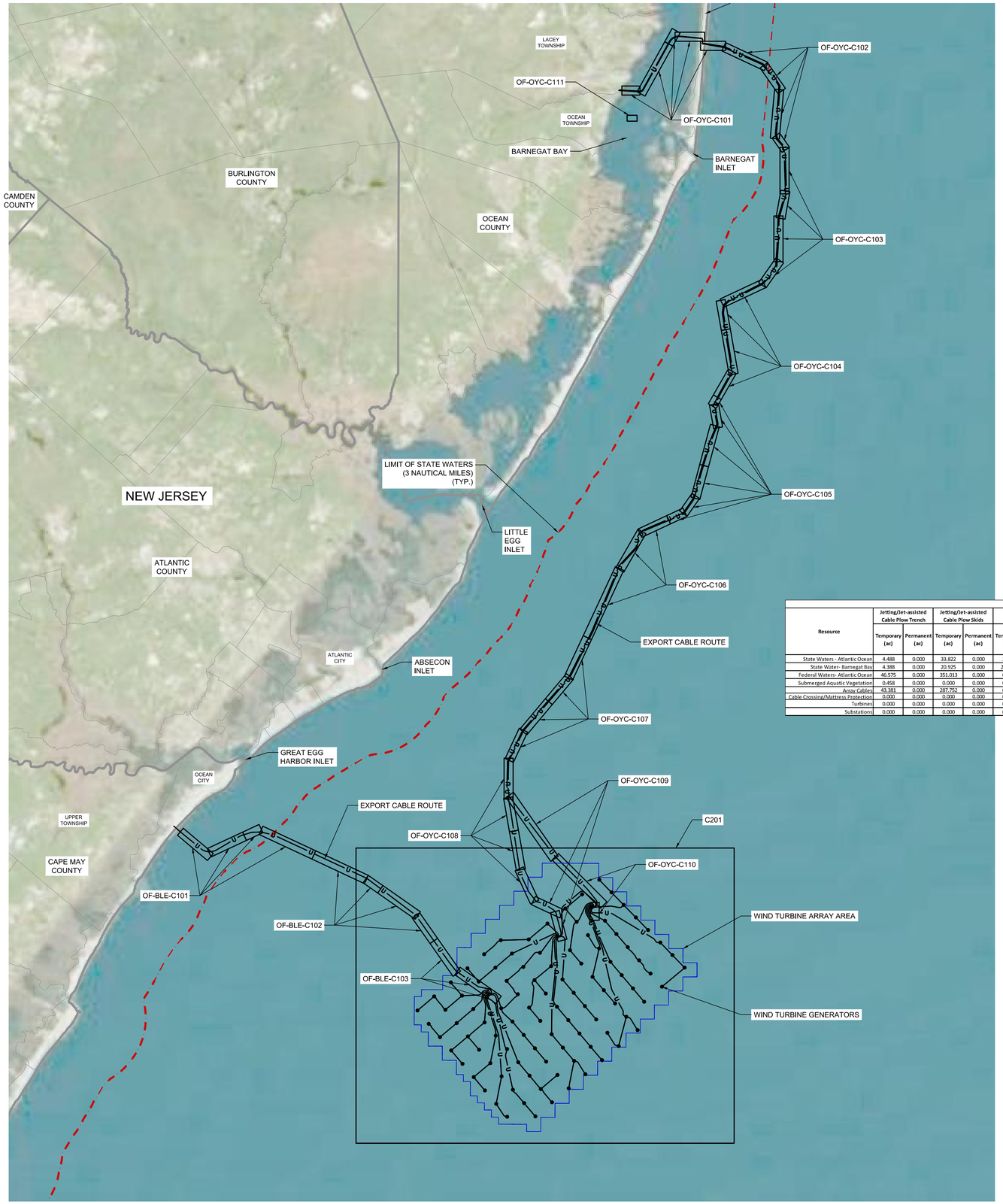


DRAWING INDEX:

G001	KEY PLAN
G002	GENERAL NOTES AND LEGEND
OF-OYC-C101	OYSTER CREEK PLAN AND PROFILE (1 OF 10)
OF-OYC-C102	OYSTER CREEK PLAN AND PROFILE (2 OF 10)
OF-OYC-C103	OYSTER CREEK PLAN AND PROFILE (3 OF 10)
OF-OYC-C104	OYSTER CREEK PLAN AND PROFILE (4 OF 10)
OF-OYC-C105	OYSTER CREEK PLAN AND PROFILE (5 OF 10)
OF-OYC-C106	OYSTER CREEK PLAN AND PROFILE (6 OF 10)
OF-OYC-C107	OYSTER CREEK PLAN AND PROFILE (7 OF 10)
OF-OYC-C108	OYSTER CREEK PLAN AND PROFILE (8 OF 10)
OF-OYC-C109	OYSTER CREEK PLAN AND PROFILE (9 OF 10)
OF-OYC-C110	OYSTER CREEK PLAN AND PROFILE (10 OF 10)
OF-OYC-C111	OYSTER CREEK FEDERAL CHANNEL
OF-BLE-C101	BL ENGLAND PLAN AND PROFILE (1 OF 3)
OF-BLE-C102	BL ENGLAND PLAN AND PROFILE (2 OF 3)
OF-BLE-C103	BL ENGLAND PLAN AND PROFILE (3 OF 3)
C201	WIND TURBINE FARM PLAN
C501	SITE DETAILS (1 OF 6)
C502	SITE DETAILS (2 OF 6)
C503	SITE DETAILS (3 OF 6)
C504	SITE DETAILS (4 OF 6)
C505	SITE DETAILS (5 OF 6)
C506	SITE DETAILS (6 OF 6)
HDD-OF-BLE-01T-5-001	32" OC3_A CROSSING
HDD-OF-OYC-04T-5-001	32" OC1_C SHORE APPROACH
HDD-OF-OYC-05T-5-001	32" OC2_C SHORE APPROACH
HDD-OF-OYC-06T-5-001	32" OC1_A SHORE APPROACH
HDD-OF-OYC-07T-5-001	32" OC2_A SHORE APPROACH
HDD-OF-BLE-01T-4-002	32" OC3_A CROSSING
HDD-OF-OYC-04T-5-002	32" OC1_C SHORE APPROACH
HDD-OF-OYC-05T-4-001	32" OC2_C SHORE APPROACH
HDD-OF-OYC-06T-4-001	32" OC1_A SHORE APPROACH
HDD-OF-OYC-07T-4-001	32" OC2_A SHORE APPROACH
HDD-OL-OYC-00T-4-003	OC1_A & OC2_A SHORE APPROACH

Resource	TEMPORARY/PERMANENT IMPACTS															
	Jetting/Jet-assisted Cable Plow Trench		Jetting/Jet-assisted Cable Plow Skids		Dredging				Anchoring/Mooring		Fill within WOTUS		TOTAL			
	Temporary (ac)	Permanent (ac)	Temporary (ac)	Permanent (ac)	Temporary (ac)	Temporary Volume Removed (cy)	Permanent Volume Removed (cy)	Permanent (ac)	Temporary (ac)	Permanent (ac)	Temporary (ac)	Permanent (ac)	Temporary (ac)	Temporary Volume Removed (cy)	Permanent Volume Removed (cy)	Permanent (ac)
State Waters - Atlantic Ocean	4.488	0.000	33.822	0.000	2.255	22135	0	0.000	0.985	0.000	0.000	0.000	41.549	22,135	0	0.000
State Water- Barnegat Bay	4.388	0.000	20.925	0.000	24.555	103992	0	0.000	0.942	0.000	0.000	0.083	50.809	103,992	0	0.083
Federal Waters- Atlantic Ocean	46.575	0.000	351.013	0.000	0.000	0	0	3.645	0.560	0.000	0.000	0.000	398.147	0	0	3.645
Submerged Aquatic Vegetation	0.458	0.000	0.000	0.000	0.000	0	0	1.804	0.000	0.000	0.000	0.083	0.458	0	0	1.887
Array Cables	43.381	0.000	287.752	0.000	0.000	0	0	0.000	-		0.000	77.000	331.133	0	0	77.000
Cable Crossing/Mattress Protection	0.000	0.000	0.000	0.000	0.000	0	0	0.000	-		0.000	2.899	0.000	0	0	2.899
Turbines	0.000	0.000	0.000	0.000	0.000	0	0	0.000	-		0.000	60.074	0.000	0	0	60.074
Substations	0.000	0.000	0.000	0.000	0.000	0	0	0.000	-		0.000	4.800	0.000	0	0	4.800

no.	date	by	ckd	description
A	04/27/22	JD	AB	ISSUED FOR PERMIT

NOTES:

1. HORIZONTAL DATUM: NAD83 NEW JERSEY STATE PLANE, U.S. FOOT
2. VERTICAL DATUM CONVERSION: NGVD29 = NAVD88 + 1.388 FT ±0.049 FT
3. ALL DIMENSIONS ARE IN FEET (FT) UNLESS NOTED OTHERWISE.
4. ALL BATHYMETRIC CONTOURS ARE DEPICTED IN RELATION TO MEAN LOW WATER (MLW).
5. SEE HDD SERIES SHEETS FOR DETAILED PLAN AND PROFILE OF CABLE ROUTE.
6. FOR DETAILS ON WETLAND IMPACTS PLEASE SEE ONSHORE PLAN SET.
7. THESE DRAWINGS ARE FOR DESIGN AND PERMITTING PURPOSES ONLY AND NOT INTENDED FOR CONSTRUCTION. FINAL LOCATION OF PROPOSED IMPROVEMENTS WILL BE COORDINATED WITH ENGINEER UPON AWARD OF CONTRACT.
8. AREAS OF IMPACTS TO REGULATED AREAS WILL BE PROVIDED UPON FINAL DESIGN OF THE CABLE ROUTES AND RELATED IMPROVEMENTS.
9. THESE DRAWINGS SHOW THE APPROXIMATE LOCATION OF CABLE ROUTE. FINAL CABLE ROUTE TO BE PROVIDED BY THE CONTRACTOR.

PRELIMINARY DRAFT

Ocean Wind
An Ørsted & PSEG project

HDR ENGINEERING, INC.
1 INTERNATIONAL BOULEVARD, SUITE 1000
MAHWAH, NJ 07495

date	detailed
04/27/2022	J. WYNOHRADNYK
designed	checked
J. DENNIS	A. BROZIER

KEY PLAN

OCEAN WIND OFFSHORE WIND PROJECT
OFFSHORE CABLE ROUTES

project	RDS-PP CODE
112083	

drawing **G001** – rev. **A**

sheet 1 of sheets

file G001.dwg

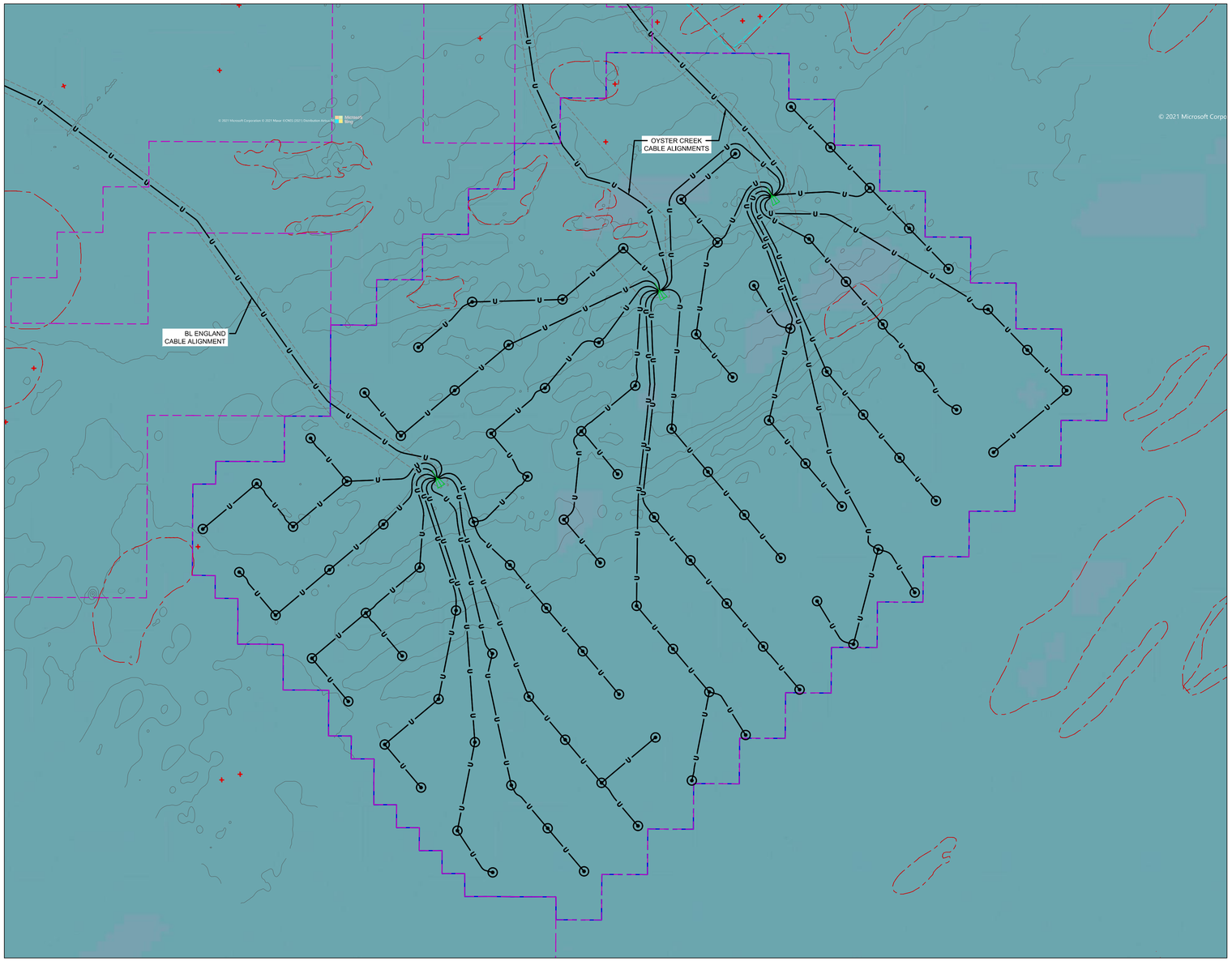
NJ CERTIFICATE OF AUTHORIZATION 24GE05780300

STATE OF NEW JERSEY · JOSEPH P. DENNIS · No. GE57803 · LICENSED PROFESSIONAL ENGINEER

JOSEPH P. DENNIS
NJ PROFESSIONAL ENGINEER
No. 24GE05780300

0 15000' 30000'
SCALE IN FEET

Scale For Microfilming
Millimeters
Inches



NORTH

no.	date	by	ckd	description
A	04/27/22	JD	AB	ISSUED FOR PERMIT

NOTES:

1. HORIZONTAL DATUM: NAD83 NEW JERSEY STATE PLANE, U.S. FOOT
2. VERTICAL DATUM CONVERSION: NGVD29 = NAVD88 + 1.388 FT ±0.049 FT
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PRELIMINARY DRAFT

Ocean Wind
An Ørsted & PSEG project

HDR ENGINEERING, INC.
1 INTERNATIONAL BOULEVARD, SUITE 1000
MAHWAH, NJ 07495

date	detailed
04/27/2022	J. WYNOHRADNYK
designed	checked
J. DENNIS	A. BROZIER

WIND TURBINE FARM PLAN

OCEAN WIND OFFSHORE WIND PROJECT
OFFSHORE CABLE ROUTES

project	RDS-PP CODE
112083	

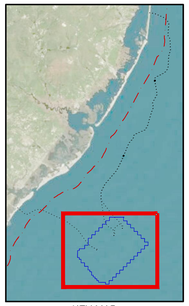
drawing **C201** – rev. **A**
sheet 3 of sheets
file C101.dwg

LEGEND

- EXISTING TOPOGRAPHY/BATHYMETRY
- EXISTING SUBSEA CABLE
- PROPOSED CABLE
- HORIZONTAL DIRECTIONAL DRILL LINE
- TEMPORARY CONSTRUCTION EASEMENT LINE
- SHELLFISH (NJDEP MAPPING 1963, 1986, 2012)
- SUBMERGED AQUATIC VEGETATION (1979, 1986)
- STATE NAVIGATION CHANNEL
- FEDERAL NAVIGATION CHANNEL (INTRACOASTAL WATERWAY)
- DREDGING LIMIT
- GEOPHYSICAL SURVEY CORRIDOR/LIMITS OF ACCESS AND MOORING
- AQUACULTURE LEASE AREA
- PERMANENT UTILITY EASEMENT
- PRIME FISHING AREA
- LIMIT OF STATE WATERS (3 NAUTICAL MILES)
- ARTIFICIAL REEFS
- WIND FARM LEASE AREA
- OFFSHORE SUBSTATION
- WIND TURBINE GENERATOR
- WRECKS AND OBSTRUCTIONS
- HDD PIT

TEMPORARY/PERMANENT IMPACTS

Resource	Trenching Tool Trench Width		Trenching Tool Footprint Width		Dredging				Anchoring/Mooring		Fill within WOTUS		TOTAL			
	Temporary (ac)	Permanent (ac)	Temporary (ac)	Permanent (ac)	Temporary (ac)	Temporary Volume Removed (cy)	Permanent Volume Removed (cy)	Permanent (ac)	Temporary (ac)	Permanent (ac)	Temporary (ac)	Permanent (ac)	Temporary (ac)	Temporary Volume Removed (cy)	Permanent Volume Removed (cy)	Permanent (ac)
Array Cables	43.381	0.000	287.752	0.000	0.000	0	0	0.000	-		0.000	77.000	331.133	0	0	77.000
Turbines	0.000	0.000	0.000	0.000	0.000	0	0	0.000	-		0.000	60.074	0.000	0	0	60.074
Substations	0.000	0.000	0.000	0.000	0.000	0	0	0.000	-		0.000	4.800	0.000	0	0	4.800



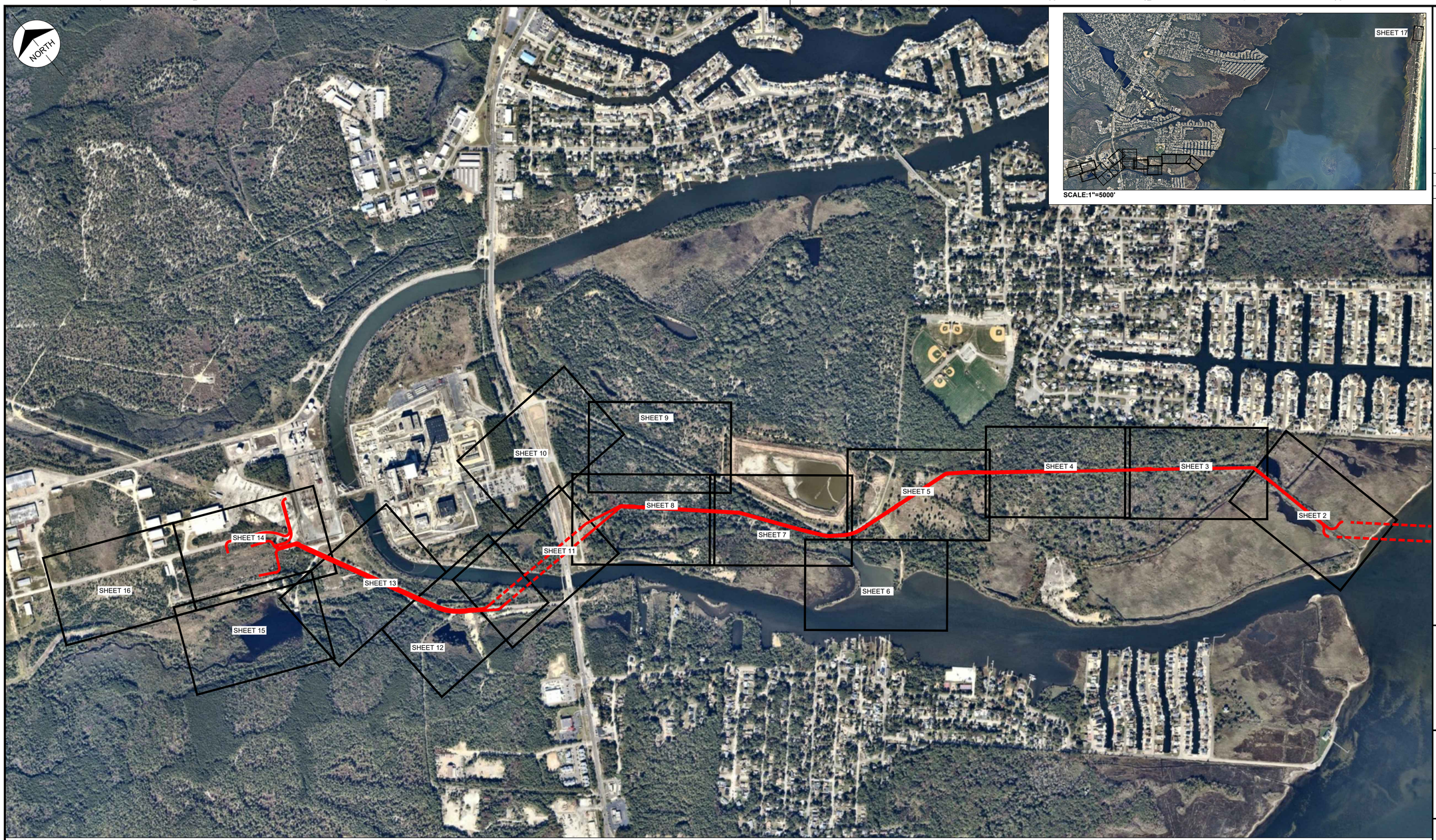
KEY MAP

0 5000' 10000'
SCALE IN FEET

NJ CERTIFICATE OF AUTHORIZATION 24GE05780300

STATE OF NEW JERSEY · JOSEPH P. DENNIS · No. GE57803 · LICENSED PROFESSIONAL ENGINEER

JOSEPH P. DENNIS
NJ PROFESSIONAL ENGINEER
No. 24GE05780300



SCALE:1"=5000'

no.	date	by	ckd	description
0	4/27/2022	AG/JS	JS/KH	ISSUED FOR PERMIT REVIEW AND APPROVAL

UNITS = U.S. FOOT
PROJECT COMBINED GRID SCALE FACTOR = 0.999897978

VERTICAL DATUM CONVERSION:
NGVD88 = NAVD29 - 1.25 FT

2. PLANS HAVE BEEN PREPARED TO SUPPORT THE FILING OF U.S. ARMY CORPS OF ENGINEERS INDIVIDUAL APPLICATION FOR OCEAN WIND LLC ONSHORE IMPACTS.

3. ONLY OCEAN WIND LLC LAND RIGHTS HAVE BEEN SURVEYED, ADJOINING TAX LOT LOCATIONS ARE APPROXIMATE AND ARE SHOWN FOR REFERENCE ONLY.

4. UNDERGROUND UTILITY LINES AND EASEMENTS SHOWN ARE APPROXIMATE AND BASED ON RECORD INFORMATION AND/OR ABOVE GROUND MARKER LOCATIONS ONLY. ACCORDING TO N.J.S.A. 48:2-73 ET SEQ. ANYONE PLANNING EXCAVATIONS IN THE AREA MUST CALL 811 FOR A MARKOUT OF THE UNDERGROUND UTILITIES. DO NOT RELY ON THIS PLAN FOR UNDERGROUND UTILITY LOCATIONS.

5. TIMBER MATTING IS PROPOSED TO MINIMIZE DISTURBANCES IN REGULATED AREAS (WETLANDS/WATERS) AND TO PROVIDE ADDITIONAL PROTECTION TO UNDERGROUND GAS LINES AS REQUIRED PER SAFETY PROTOCOLS. AT THE CONTRACTOR'S DISCRETION, AND WITH THE APPROVAL OF OCEAN WIND LLC, GRAVEL OVER FILTER FABRIC MAY BE USED IN LIEU OF TIMBER MATTING FOR TEMPORARY ACCESS ROADS AND WORK PADS LOCATED IN AREAS THAT ARE NOT THREATENED/ ENDANGERED SPECIES HABITAT. GRAVEL OVER FILTER FABRIC IS NOT PERMITTED IN WETLANDS OR WATER AREAS THAT ARE THREATENED/ENDANGERED SPECIES HABITAT. FOR ADDITIONAL INFORMATION SEE COMPLIANCE STATEMENT INCLUDED IN APPLICATION.

6. THE STATE OF NEW JERSEY HAS DETERMINED THAT A PORTION OF THIS PROJECT LIES IN FLOOD HAZARD AREA AND RIPARIAN ZONE. CERTAIN ACTIVITIES IN FLOOD HAZARD AREAS AND RIPARIAN ZONES ARE REGULATED BY THE NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND SOME ACTIVITIES MAY BE PROHIBITED ON THIS SITE OR MAY FIRST REQUIRE A PERMIT. CONTACT THE DIVISION OF LAND RESOURCE PROTECTION AT (609) 777-0454 FOR MORE INFORMATION PRIOR TO ANY CONSTRUCTION ONSITE.

7. THESE PLANS ARE FOR DESIGN AND PERMITTING PURPOSES ONLY AND NOT INTENDED FOR CONSTRUCTION. THE ORIGINAL SIGNED DOCUMENT WITH A RAISED OR DIGITAL SEAL IS THE DOCUMENT OF RECORD.

8. WETLANDS SHOWN HEREON WERE DELINEATED BY HDR JUNE 2019, MAY 2020 AND LOCATED BY NJ LICENSED LAND SURVEYOR GEOD CORPORATION. WETLAND AND WATERCOURSE EXTENTS CONFIRMED BY NJDEP WITH SITE VERIFICATION NOVEMBER 2021. ADDITIONAL WETLANDS WITHIN PROPOSED ONSHORE CONSTRUCTION AREA CONFIRMED IN VALID NJDEP LETTER ON INTERPRETATION ISSUED AUGUST 15, 2017 (FILE NO. 1512-17-0013.1). SHAPEFILES PROVIDED BY HDR JANUARY 10, 2022.

REFERENCES:

1. IMAGERY PROVIDED BY NEARMAP DATED OCTOBER 2021
2. FOR A COMPLETE LIST OF REFERENCES SEE REFERENCE SHEET 22

Ocean Wind
An Ørsted & PSEG project

E 2 PROJECT MANAGEMENT LLC

87 HIBERNIA AVENUE
ROCKAWAY, N.J. 07866
PHONE: (973) 299-5200
FAX: (973) 299-5059
www.E2PM.com

THIS DRAWING DOES NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. ALL CONSTRUCTION MUST BE DONE IN COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 AND ALL RULES AND REGULATIONS THERETO APPURTENANT. THIS DRAWING AND THE DESIGN FEATURES OR CONSTRUCTION DISCLOSED ARE PROPRIETARY TO E2 PROJECT MANAGEMENT LLC AND SHALL NOT BE REPRODUCED, ALTERED OR COPIED WITHOUT WRITTEN PERMISSION, SHALL NOT BE USED IN ANY MANNER DETRIMENTAL TO ITS INTEREST AND SHALL BE RETURNED UPON REQUEST.

date	detailed
4/27/22	APG
designed	checked
JMS	KLH/JMS

LEGEND

SHEET VIEW LOCATION
PROPOSED EXPORT CABLE
PROPOSED HDD PORTION

ARMY CORPS OF ENGINEERS JURISDICTIONAL RESOURCE IMPACT TABLE

	ABOVE SHTL PERMANENT	ABOVE SHTL TEMPORARY	BELOW SHTL PERMANENT	BELOW SHTL TEMPORARY
WETLANDS E2EM1Pd		12735 SQ.FT. 0.292 ACRES		
WETLANDS PEM1E	53164 SQ.FT. 1.220 ACRES			
WETLANDS PFO1/4E		438 SQ.FT. 0.010 ACRES		
WETLANDS E2EM5		1356 SQ.FT. 0.031 ACRES		
WETLANDS PFO1/4Bd	290 SQ.FT. 0.007 ACRES			
WETLANDS PFO1Bd	5948 SQ.FT. 0.137 ACRES			
WETLANDS E2PMSP	1195 SQ.FT. 0.027 ACRES	217291 SQ.FT. 4.988 ACRES	107 SQ.FT. 0.002 ACRES	4365 SQ.FT. 0.100 ACRES
TOTAL IMPACTS	ABOVE SHTL PERMANENT	ABOVE SHTL TEMPORARY	BELOW SHTL PERMANENT	BELOW SHTL TEMPORARY
	60597 SQ.FT. 1.391 ACRES	231820 SQ.FT. 5.322 ACRES	107 SQ.FT. 0.002 ACRES	4365 SQ.FT. 0.100 ACRES
STATE OPEN WATERS				3964 SQ.FT. 0.091 ACRE

LACEY TOWNSHIP

Interpolation between tidal stations #8533615 BARNEGAT INLET (INSIDE), NJ and #8535101 CORSON INLET, NJ

		NAVD-88 FEET	NGVD-29 FEET
SPRING HIGH TIDE	SHT	**0.59**	**-0.66**
MEAN HIGHER HIGH WATER	MHHW	**0.76**	**-0.49**
MEAN HIGH WATER	MHW	**0.6**	**-0.65**
MEAN TIDE LEVEL	MTL	**-0.02**	**-1.27**
MEAN LOW WATER	MLW	**-0.63**	**-1.88**
MEAN LOWER LOW WATER	MLLW	**-0.74**	**-1.99**

NAVD-88 TO NGVD-29 CONVERTION FACTOR = -1.25'

0 500' 1000'
SCALE IN FEET

Katherine L. Hering P. E. 24GE04226900
Digitally signed by Katherine L. Hering P. E. 24GE04226900
Date: 2022.04.27 14:17:30 -04'00'

STATE OF NEW JERSEY
KATHERINE L. HERING
No. GE42269
LICENSED PROFESSIONAL ENGINEER

KATHERINE L. HERING, P.E. N.J. NO. 24GE04226900
LICENSED PROFESSIONAL ENGINEER

KEY MAP

OCEAN WIND OFFSHORE WIND PROJECT

OYSTER CREEK LOCATION
LACEY TWP, NJ 0875

project	RDS-PP CODE
P-21-03-26	

drawing	rev.
OL-OC001 –	**0**

sheet 1 of 22 sheets
file 1213.dwg

CHART 1A

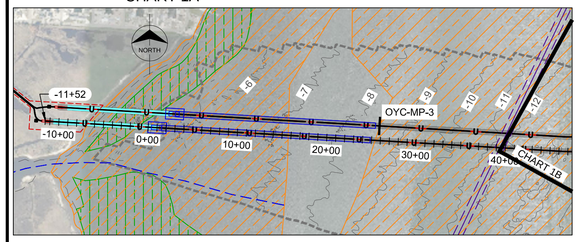
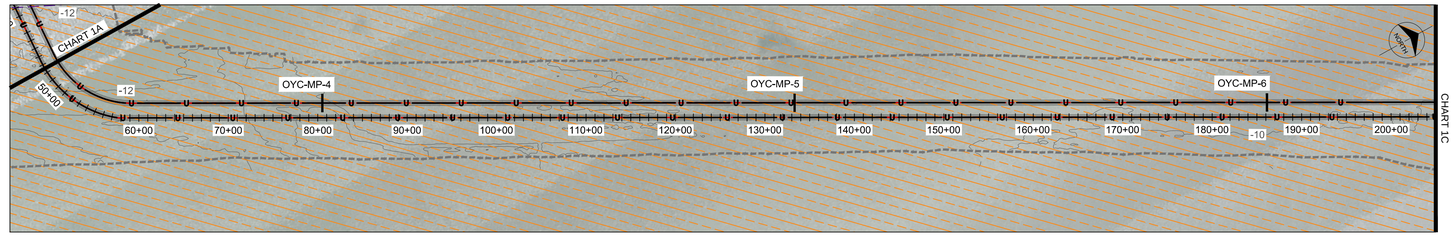
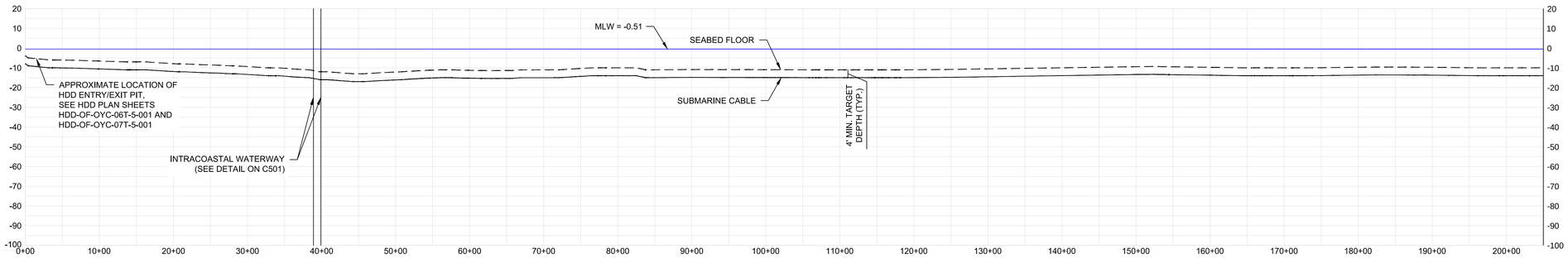


CHART 1B





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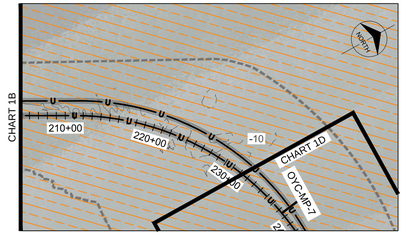


CHART 1D

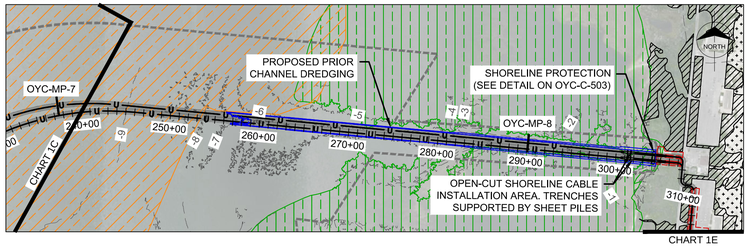
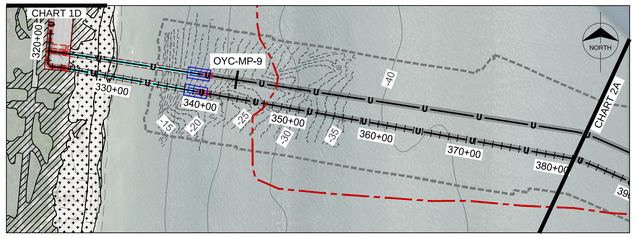
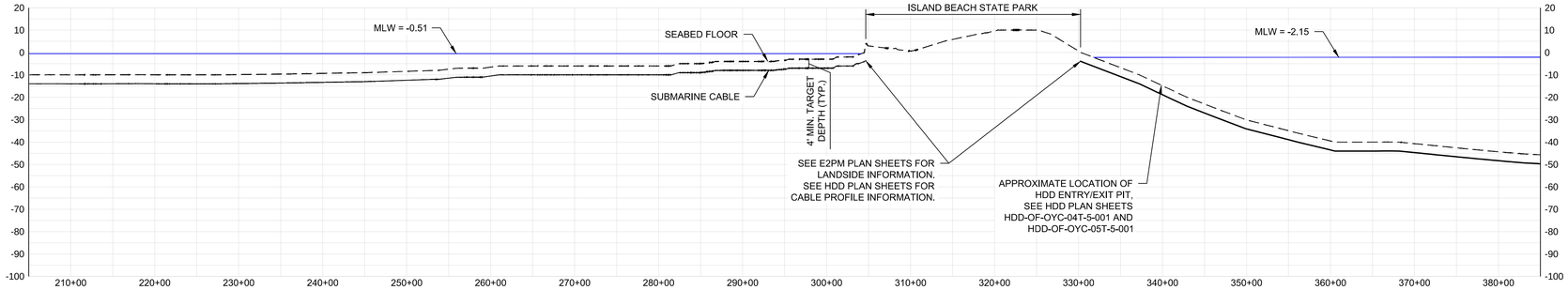


CHART 1E

CHART 1E





Tidal Datums (NAVD88 ft elevation)	Barnegat Bay Holtec Farm Landing	Barnegat Bay IBSP Shoreline	Barnegat Bay Atlantic Shoreline	BL England Atlantic Shoreline
MHHW	0.40	0.42	2.17	1.96
MHW	0.27	0.27	1.84	1.56
MTL	-0.05	-0.07	-0.19	-0.37
MLW	-0.42	-0.45	-2.01	-2.32
MLLW	-0.50	-0.51	-2.15	-2.47

TEMPORARY/PERMANENT IMPACTS																	
Resource	Jetting/Jet-assisted Cable Plow Trench		Jetting/Jet-assisted Cable Plow Skids		Dredging				Anchoring/Mooring		Fill within WOTUS		TOTAL				
	Temporary (ac)	Permanent (ac)	Temporary (ac)	Permanent (ac)	Temporary (ac)	Temporary Volume Removed (cy)	Permanent Volume Removed (cy)	Permanent (ac)	Temporary (ac)	Permanent (ac)	Temporary (ac)	Permanent (ac)	Temporary (ac)	Temporary Volume Removed (cy)	Permanent Volume Removed (cy)	Permanent (ac)
State Jurisdictional Water- Barnegat Bay	4.388	0.000	20.925	0.000	24.555	103992	0	0.000	0.942	0.000	0.000	0.083	50.809	103,992	0	0.083
State Jurisdictional Water- Atlantic Ocean	0.177	0.000	1.337	0.000	1.544	15453	0	0.000	0.000	0.000	0.000	0.000	3.058	15,453	0	0.000
Submerged Aquatic Vegetation	0.458	0.000	0.000	0.000	0.000	0	0	1.804	0.000	0.000	0.000	0.083	0.458	0	0	1.887

LEGEND

- EXISTING TOPOGRAPHY/BATHYMETRY
- EXISTING SUBSEA CABLE
- PROPOSED CABLE
- HORIZONTAL DIRECTIONAL DRILL LINE
- TEMPORARY CONSTRUCTION EASEMENT LINE
- SHELLFISH (NJDEP MAPPING 1963, 1986, 2012)
- SUBMERGED AQUATIC VEGETATION (1979, 1986)
- STATE NAVIGATION CHANNEL
- FEDERAL NAVIGATION CHANNEL (INTRACOASTAL WATERWAY)
- DREDGING LIMIT
- GEOPHYSICAL SURVEY CORRIDOR/LIMITS OF ACCESS AND MOORING
- AQUACULTURE LEASE AREA
- PERMANENT UTILITY EASEMENT
- PRIME FISHING AREA
- LIMIT OF STATE WATERS (3 NAUTICAL MILES)
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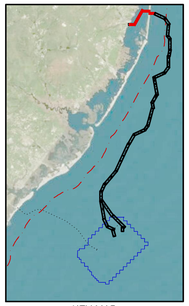
- WIND FARM LEASE AREA
- OFFSHORE SUBSTATION
- WIND TURBINE GENERATOR
- WRECKS AND OBSTRUCTIONS
- HDD PIT



KEY MAP

0 800' 1600'
HORIZONTAL SCALE IN FEET

0 30' 60'
VERTICAL SCALE IN FEET

NJ CERTIFICATE OF AUTHORIZATION 24GE05780300

STATE OF NEW JERSEY · JOSEPH P. DENNIS · No. 24GE57803 · LICENSED PROFESSIONAL ENGINEER

JOSEPH P. DENNIS
NJ PROFESSIONAL ENGINEER
No. 24GE05780300

no.	date	by	ckd	description
A	04/27/22	JD	AB	ISSUED FOR PERMIT

NOTES:

1. HORIZONTAL DATUM: NAD83 NEW JERSEY STATE PLANE, U.S. FOOT
2. VERTICAL DATUM CONVERSION: NGVD29 = NAVD88 + 1.388 FT ±0.049 FT
3. ALL DIMENSIONS ARE IN FEET (FT) UNLESS NOTED OTHERWISE.
4. ALL BATHYMETRIC CONTOURS ARE DEPICTED IN RELATION TO MEAN LOW WATER (MLW).
5. SEE HDD SERIES SHEETS FOR DETAILED PLAN AND PROFILE OF CABLE ROUTE.
6. FOR DETAILS ON WETLAND IMPACTS PLEASE SEE ONSHORE PLAN SET.
7. THESE DRAWINGS ARE FOR DESIGN AND PERMITTING PURPOSES ONLY AND NOT INTENDED FOR CONSTRUCTION. FINAL LOCATION OF PROPOSED IMPROVEMENTS WILL BE COORDINATED WITH ENGINEER UPON AWARD OF CONTRACT.
8. AREAS OF IMPACTS TO REGULATED AREAS WILL BE PROVIDED UPON FINAL DESIGN OF THE CABLE ROUTES AND RELATED IMPROVEMENTS.
9. THESE DRAWINGS SHOW THE APPROXIMATE LOCATION OF CABLE ROUTE. FINAL CABLE ROUTE TO BE PROVIDED BY THE CONTRACTOR.

PRELIMINARY DRAFT

Ocean Wind
An Ørsted & PSEG project

HDR ENGINEERING, INC.
1 INTERNATIONAL BOULEVARD, SUITE 1000
MAHWAH, NJ 07495

date	detailed
04/27/2022	J. WYNOHRADNYK
designed	checked
J. DENNIS	A. BROZIER

OYSTER CREEK PLAN AND PROFILE (1 OF 10)

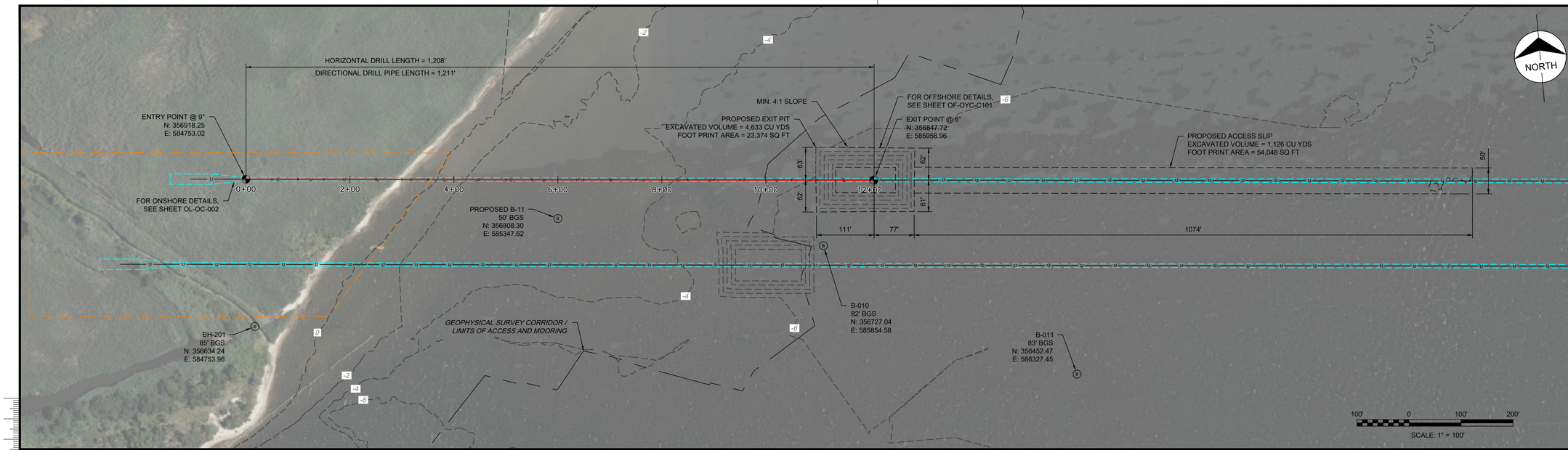
OCEAN WIND OFFSHORE WIND PROJECT
OFFSHORE CABLE ROUTES

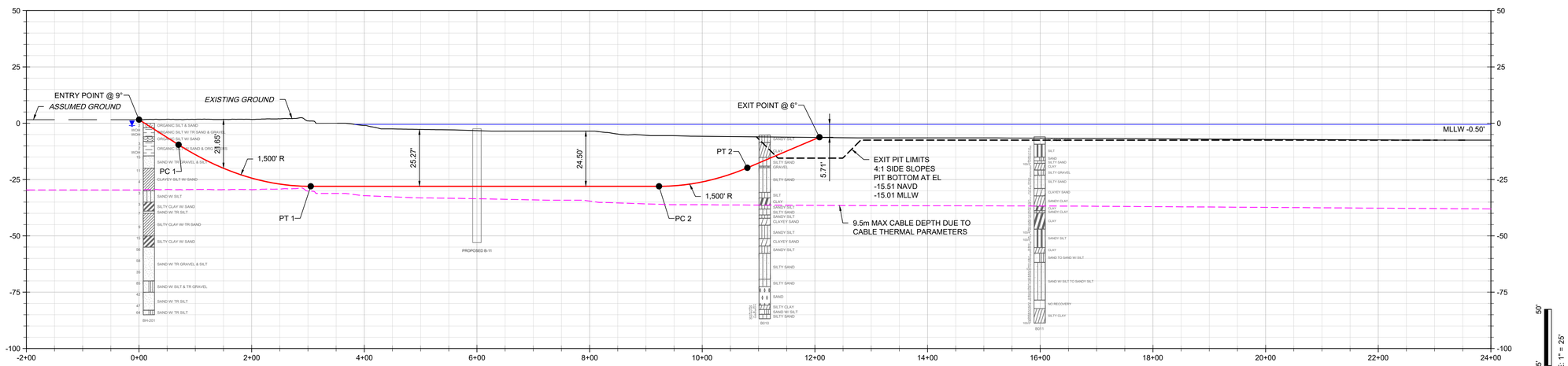
project	RDS-PP CODE
112083	

drawing **OF-OYC-C101** rev. **A**

sheet 3 of sheets

file C101.dwg





no.	date	by	ckd	description
A	04/27/22	TSV	DPB	ISSUED FOR PERMIT

FOR PERMITTING APPROVAL

Ocean Wind
An Ørsted & PSEG project

HDR ENGINEERING, INC.
1 INTERNATIONAL BOULEVARD, SUITE 1000
MAHWAH, NJ 07495

date	detailed
04/27/22	T. VONBERGE
designed	checked
R. SCHOO	D. BEARDEN

OCEAN COUNTY, NEW JERSEY

32" OC1_A SHORE APPROACH
HOLTEC FARM CROSSING (NORTH)
HORIZONTAL DIRECTIONAL DRILL
PLAN AND PROFILE

project	RDS-PP CODE
-	-

drawing HDD-OF-OYC-06T-5-001 — rev. A

sheet 4 of 13 sheets

file HDD-OF-OYC-06T-5-001

NJ CERTIFICATE OF AUTHORIZATION 24GA28010700

REILLY J. SCHOO

STATE OF NEW JERSEY
REILLY J. SCHOO
No. 24GE05344300
PROFESSIONAL ENGINEER
4-27-2022

N.J. PROFESSIONAL ENGINEER NO. 24GE05344300

DIRECTIONAL DRILL DATA

DESCRIPTION	STATION (ft)	ELEVATION (ft)
ENTRY POINT @ 9°	0+00.00	1.57
PC 1 (1,500' R)	0+70.10	-9.53
PT 1	3+04.75	-28.00
PC 2 (1,500' R)	9+23.12	-28.00
PT 2	10+79.92	-19.78
EXIT POINT @ 6°	12+08.00	-6.21
HORIZONTAL DISTANCE (ft) = 1,208.00		
DIRECTIONAL DRILL PIPE LENGTH (ft) = 1,210.83		

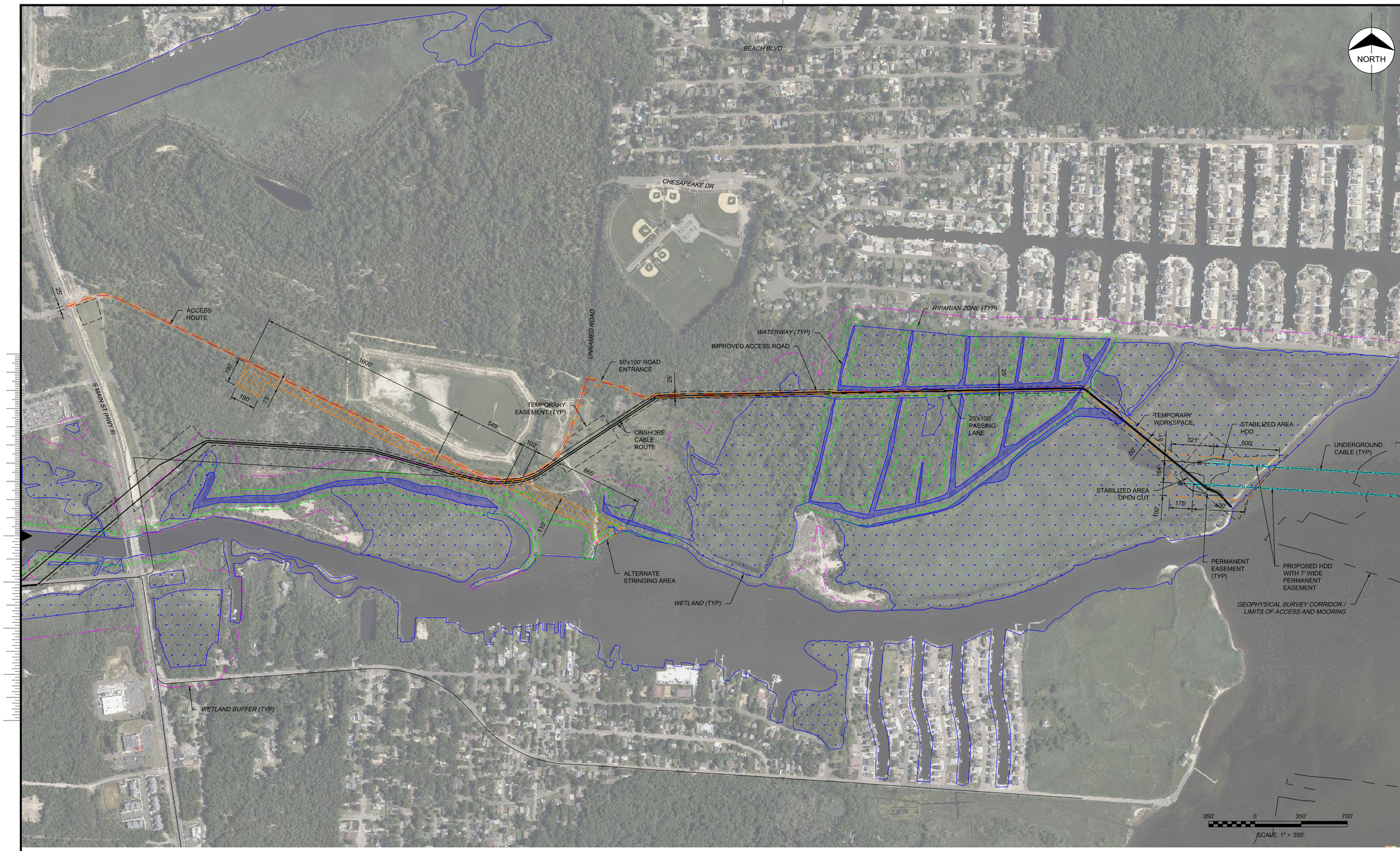
GENERAL NOTES

1. NORTHINGS AND EASTINGS ARE IN US SURVEY FEET REFERENCED TO NAD83, NEW JERSEY STATE PLANE, US FOOT.
2. ALL ELEVATIONS ARE REFERENCE TO THE MEAN LOWER LOW (MLLW) LEVEL.
3. AERIAL IMAGERY PROVIDED BY GOOGLE EARTH.
4. TOPOGRAPHIC SURVEY WAS PROVIDED BY ØRSTED.
5. BASE FILE(S) PROVIDED BY ØRSTED.
6. BATHYMETRIC SURVEY DATA PROVIDED BY ØRSTED 2021 AND BASED ON SITE INVESTIGATION HIGH RESOLUTION GEOPHYSICAL FIELD STUDIES CONDUCTED FROM 2019 THROUGH 2021. SUPPLEMENTAL BATHYMETRY FOR BARNEGAT BAY PROVIDED BY NOAA 2014 POST SANDY TOPOBATHY LIDAR.
7. DRILL PATH STATIONING IS IN FEET BY HORIZONTAL MEASUREMENT AND IS REFERENCED TO THE CONTROL POSITION FOR THE CROSSING.
8. DEPICTED WATER LEVEL INFORMATION SOURCED FROM NOAA VDATUM.
9. LOCATION OF HDD RIG, OFFSHORE MARINE EQUIPMENT AND SUPPORT STRUCTURES ARE NOT FIXED BY DESIGNATION OF HDD ENTRY OR EXIT POINT AND ARE LIKELY TO CHANGE DURING CONSTRUCTION.
10. VESSELS, EQUIPMENT, AND SUPPORT STRUCTURES ARE FOR ILLUSTRATION PURPOSES ONLY AND SHALL BE THE CONTRACTORS RESPONSIBILITY FOR SELECTING APPROPRIATELY SIZED AND CAPABLE EQUIPMENT FOR COMPLETING THE WORK.
11. CONTRACTOR MUST REVIEW AND APPROVE ALL IN-WATER STRUCTURES AND COMPONENTS REQUIRED FOR CONSTRUCTION IN ORDER TO CONFIRM WITH SAFETY REQUIREMENTS, WATER DEPTH UNCERTAINTY, POSSIBILITY OF EXTREME WAVES AND ANY OTHER CONCERNS FOR THE SAFE AND SUCCESSFUL INSTALLATION OF CROSSING IN THE OFFSHORE ENVIRONMENT.
12. OFFSHORE CONTRACTOR TO ENSURE CARRIER PIPE STRING IS FREE OF DEBRIS AND SILT-IN PRIOR TO PULLBACK.
13. VERTICAL DIMENSIONS OF EQUIPMENT NOT TO SCALE.
14. GEOTECHNICAL DATA AND INFORMATION IS PRESENTED FOR REFERENCE ONLY. REVIEW THE ASSOCIATED GEOTECHNICAL REPORT FOR ALL INTERPRETATIONS AND DETERMINATIONS REGARDING SUBSURFACE CONDITIONS.
15. VERTICAL DATUM CONVERSION:
NGVD29 = NAVD88 + 1.388FT ± 0.049FT
16. DRILLING FLUID AND CUTTINGS CAPTURED IN OFFSHORE EXCAVATION AT EXIT TO BE LEFT IN PLACE AND COVERED WITH AN APPROPRIATE LAYER OF NATIVE AND/OR COMPATIBLE MATERIAL.

TIDAL DATUMS (NAVD88 FT ELEVATIONS)	BARNEGAT BAY HOLTEC FARMS LANDING
MHHW	0.40
MHW	0.27
MTL	-0.05
MLW	-0.42
MLLW	-0.50

LEGEND

- PROPOSED DRILL PATH
- PROPOSED WORKSPACE
- TEMPORARY EASEMENT
- PERMANENT EASEMENT
- PROPOSED EXCAVATION
- CABLE ROUTE
- USACE BEACH NOURISHMENT CONSTRUCTION / DESIGN TEMPLATE
- WATER LEVEL
- CABLE DEPTH DUE TO CABLE THERMAL PARAMETERS
- GEOPHYSICAL SURVEY CORRIDOR / LIMITS OF ACCESS AND MOORING
- VEGETATED DUNE
- BEACH
- HDD ENTRY / EXIT POINT
- GEOTECHNICAL BORE LOCATION
- COHESIVE SOILS, UCS, TONS/FT² — X.XX
- BLOWS/FT — XX
- MATERIAL GRAPHIC — MATERIAL DESCRIPTION (ORIGIN)
- GRAVEL CONTENT — X.X
- UNCONFINED COMPRESSIVE STRENGTH (PSF) — X,XXX
- WATER LEVEL AFTER SAMPLING
- WATER LEVEL DURING SAMPLING



no.	date	by	ckd	description
A	04/27/22	TSV	DPB	ISSISSUED FOR PERMIT

FOR PERMITTING APPROVAL

Ocean Wind
An Ørsted & PSEG project

HDR ENGINEERING, INC.
1 INTERNATIONAL BOULEVARD, SUITE 1000
MAHWAH, NJ 07495

date	detailed
04/27/22	T. VONBERGE
designed	checked
R. SCHOO	D. BEARDEN

OCEAN COUNTY, NEW JERSEY

OC1_A & OC2_A SHORE APPROACH
HOLTECH FARM CROSSINGS
ACCESS ROAD / WORKSPACE PLAN

project	RDS-PP CODE
-	-

drawing HDD-OL-OYC-00T-4-003 — rev. A

sheet 11 of 11 sheets

file HDD-OL-OYC-00T-4-003

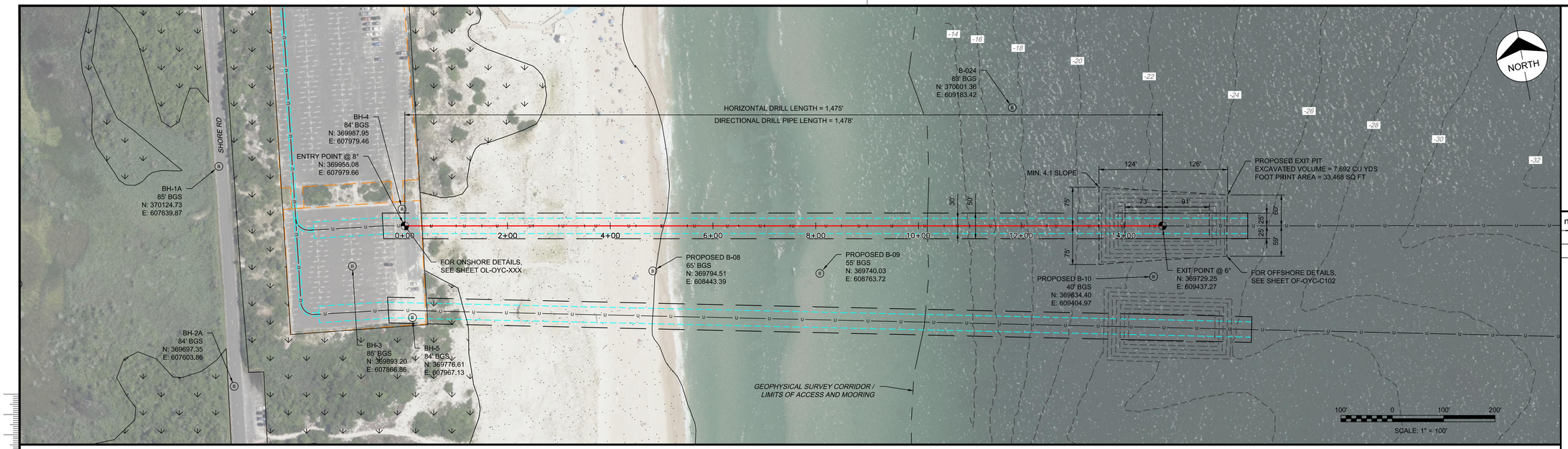
NJ CERTIFICATE OF AUTHORIZATION 24GA28010700

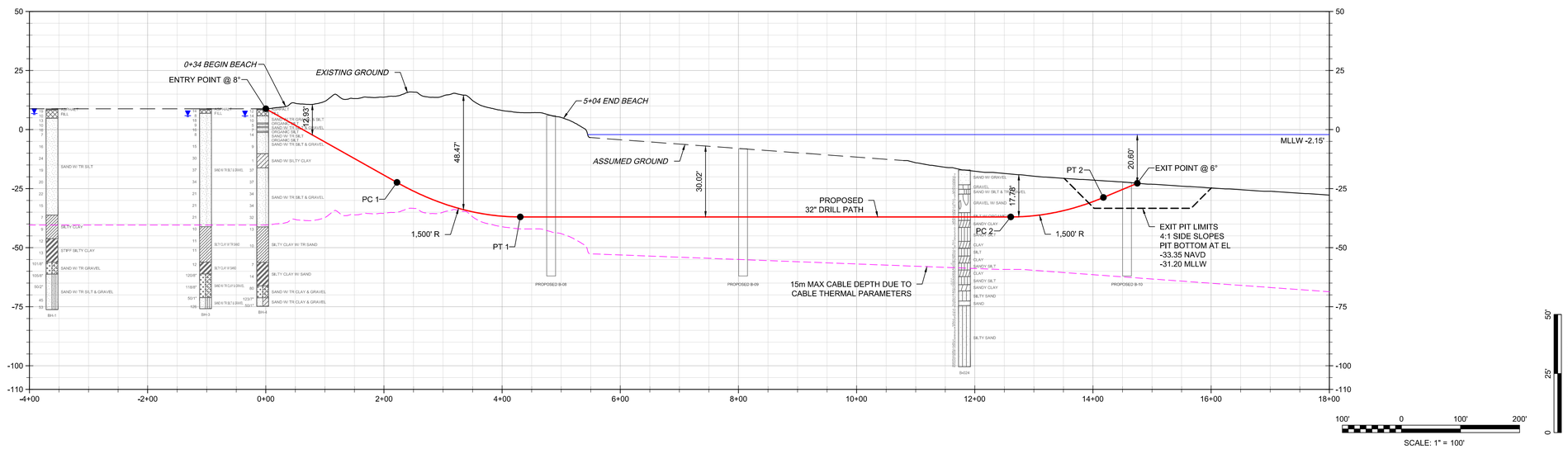
REILLY J. SCHOO

STATE OF NEW JERSEY REILLY J. SCHOO No. 24GE05344300 LICENSED PROFESSIONAL ENGINEER
4-27-2022

N.J. PROFESSIONAL ENGINEER NO. 24GE05344300

Millimeters
Scale For Microfilming
Inches





DIRECTIONAL DRILL DATA		
DESCRIPTION	STATION (ft)	ELEVATION (ft)
ENTRY POINT @ 8°	0+00.00	8.79
PC 1 (1,500' R)	2+21.92	-22.40
PT 1	4+30.68	-37.00
PC 2 (1,500' R)	12+60.77	-37.00
PT 2	14+17.56	-28.78
EXIT POINT @ 6°	14+75.00	-22.75
HORIZONTAL DISTANCE (ft) = 1,475.00		
DIRECTIONAL DRILL PIPE LENGTH (ft) = 1,478.46		

GENERAL NOTES

1. NORTHINGS AND EASTINGS ARE IN US SURVEY FEET REFERENCED TO NAD83, NEW JERSEY STATE PLANE, US FOOT.
2. ALL ELEVATIONS ARE REFERENCE TO THE MEAN LOWER LOW (MLLW) LEVEL.
3. AERIAL IMAGERY PROVIDED BY GOOGLE EARTH.
4. TOPOGRAPHIC SURVEY WAS PROVIDED BY ØRSTED.
5. BASE FILE(S) PROVIDED BY ØRSTED.
6. BATHYMETRIC SURVEY DATA PROVIDED BY ØRSTED 2021 AND BASED ON SITE INVESTIGATION HIGH RESOLUTION GEOPHYSICAL FIELD STUDIES CONDUCTED FROM 2019 THROUGH 2021. SUPPLEMENTAL BATHYMETRY FOR BARNEGAT BAY PROVIDED BY NOAA 2014 POST SANDY TOPOBATHY LIDAR.
7. DRILL PATH STATIONING IS IN FEET BY HORIZONTAL MEASUREMENT AND IS REFERENCED TO THE CONTROL POSITION FOR THE CROSSING.
8. DEPICTED WATER LEVEL INFORMATION SOURCED FROM NOAA VDATUM.
9. LOCATION OF HDD RIG, OFFSHORE MARINE EQUIPMENT AND SUPPORT STRUCTURES ARE NOT FIXED BY DESIGNATION OF HDD ENTRY OR EXIT POINT AND ARE LIKELY TO CHANGE DURING CONSTRUCTION.
10. VESSELS, EQUIPMENT, AND SUPPORT STRUCTURES ARE FOR ILLUSTRATION PURPOSES ONLY AND SHALL BE THE CONTRACTORS RESPONSIBILITY FOR SELECTING APPROPRIATELY SIZED AND CAPABLE EQUIPMENT FOR COMPLETING THE WORK.
11. CONTRACTOR MUST REVIEW AND APPROVE ALL IN-WATER STRUCTURES AND COMPONENTS REQUIRED FOR CONSTRUCTION IN ORDER TO CONFIRM WITH SAFETY REQUIREMENTS, WATER DEPTH UNCERTAINTY, POSSIBILITY OF EXTREME WAVES AND ANY OTHER CONCERNS FOR THE SAFE AND SUCCESSFUL INSTALLATION OF CROSSING IN THE OFFSHORE ENVIRONMENT.
12. OFFSHORE CONTRACTOR TO ENSURE CARRIER PIPE STRING IS FREE OF DEBRIS AND SILT-IN PRIOR TO PULLBACK.
13. VERTICAL DIMENSIONS OF EQUIPMENT NOT TO SCALE.
14. GEOTECHNICAL DATA AND INFORMATION IS PRESENTED FOR REFERENCE ONLY. REVIEW THE ASSOCIATED GEOTECHNICAL REPORT FOR ALL INTERPRETATIONS AND DETERMINATIONS REGARDING SUBSURFACE CONDITIONS.
15. VERTICAL DATUM CONVERSION:
NGVD29 = NAVD88 + 1.388FT ± 0.049FT

TIDAL DATUMS (NAVD88 FT ELEVATIONS)	IBSP ATLANTIC SHORELINE
MHHW	2.17
MHW	1.84
MTL	-0.19
MLW	-2.01
MLLW	-2.15

LEGEND

- PROPOSED DRILL PATH
- PROPOSED WORKSPACE
- TEMPORARY EASEMENT
- PERMANENT EASEMENT
- PROPOSED EXCAVATION
- CABLE ROUTE
- USACE BEACH NOURISHMENT CONSTRUCTION / DESIGN TEMPLATE
- WATER LEVEL
- CABLE DEPTH DUE TO CABLE THERMAL PARAMETERS
- GEOPHYSICAL SURVEY CORRIDOR / LIMITS OF ACCESS AND MOORING
- VEGETATED DUNE
- BEACH
- HDD ENTRY / EXIT POINT
- GEOTECHNICAL BORE LOCATION
- MATERIAL GRAPHIC
- GRAVEL CONTENT
- UNCONFINED COMPRESSIVE STRENGTH (PSF)
- COHESIVE SOILS, UCS, TONS/FT²
- BLOWS/FT
- WATER LEVEL AFTER SAMPLING
- WATER LEVEL DURING SAMPLING

no.	date	by	ckd	description
A	04/27/22	TSV	DPB	ISSUED FOR PERMIT

FOR PERMITTING APPROVAL

Ocean Wind
An Ørsted & PSEG project

HDR ENGINEERING, INC.
1 INTERNATIONAL BOULEVARD, SUITE 1000
MAHWAH, NJ 07495

date	detailed
04/27/22	T. VONBERGE
designed	checked
R. SCHOO	D. BEARDEN

NJ CERTIFICATE OF AUTHORIZATION 24GA28010700

REILLY J. SCHOO

STATE OF NEW JERSEY REILLY J. SCHOO No. 24GE05344300 PROFESSIONAL ENGINEER
4-27-2022

N.J. PROFESSIONAL ENGINEER NO. 24GE05344300

OCEAN COUNTY, NEW JERSEY

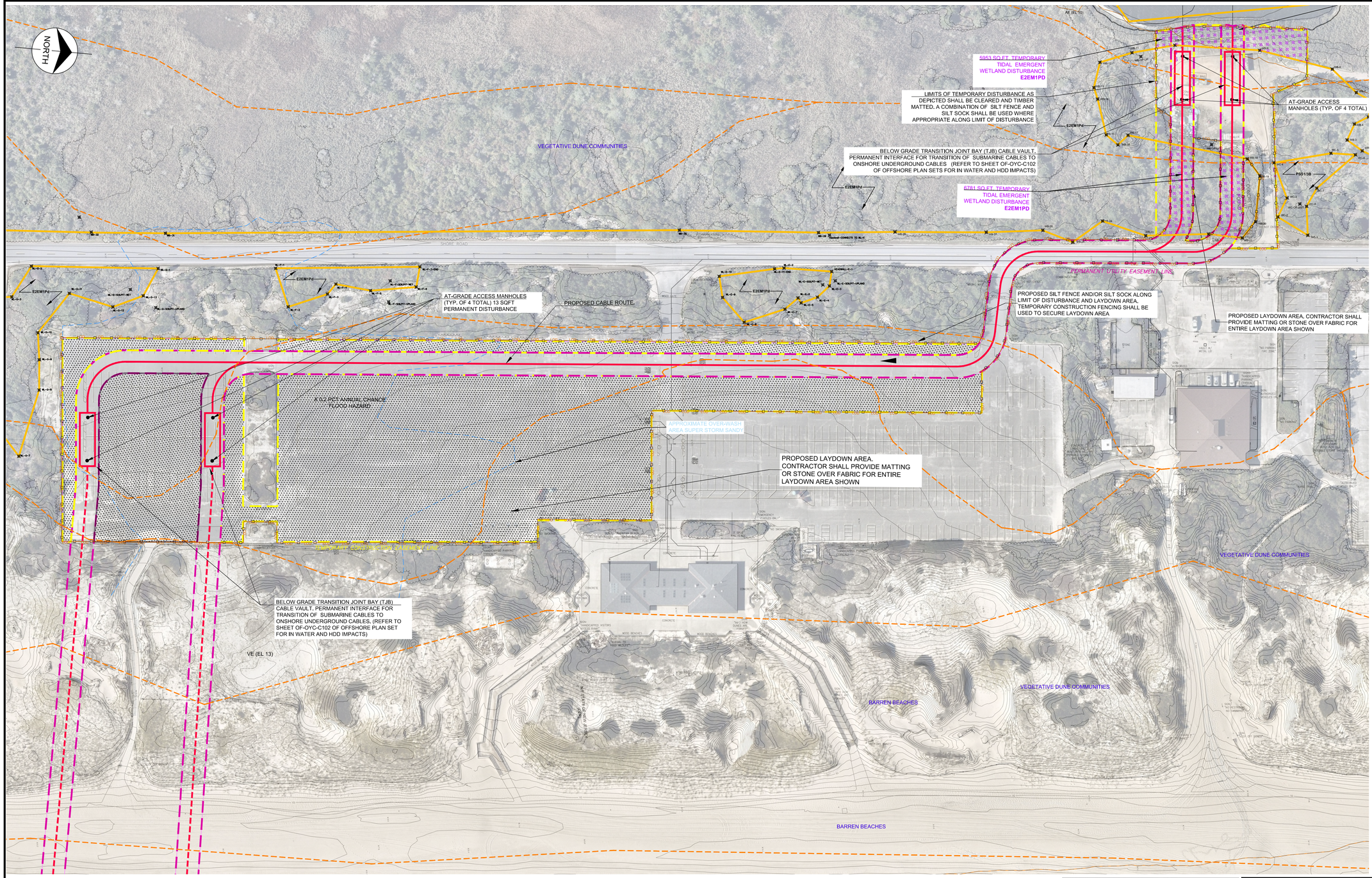
32" OC1_C SHORE APPROACH
IBSP EAST CROSSING (NORTH)
HORIZONTAL DIRECTIONAL DRILL
PLAN AND PROFILE

project	RDS-PP CODE
-	-

drawing HDD-OF-OYC-04T-5-001 — rev. A

sheet 2 of 11 sheets

file HDD-OF-OYC-04T-5-001



no.	date	by	ckd	description
0	4/27/2022	AG/JS	JS/KH	ISSUED FOR PERMIT REVIEW AND APPROVAL

NOTES:

1. MAPPING IS BASED ON THE NJ STATE PLANE COORDINATE SYSTEM.
   HORIZONTAL DATUM = NAD-83 (2011)
   VERTICAL DATUM = NAVD-88
   UNITS = U.S. FOOT
   PROJECT COMBINED GRID SCALE FACTOR = 0.999897978

   VERTICAL DATUM CONVERSION:
   NGVD88 = NAVD29 - 1.25 FT
2. PLANS HAVE BEEN PREPARED TO SUPPORT THE FILING OF U.S. ARMY CORPS OF ENGINEERS INDIVIDUAL APPLICATION FOR OCEAN WIND LLC ONSHORE IMPACTS.
3. ONLY OCEAN WIND LLC LAND RIGHTS HAVE BEEN SURVEYED, ADJOINING TAX LOT LOCATIONS ARE APPROXIMATE AND ARE SHOWN FOR REFERENCE ONLY.
4. UNDERGROUND UTILITY LINES AND EASEMENTS SHOWN ARE APPROXIMATE AND BASED ON RECORD INFORMATION AND/OR ABOVE GROUND MARKER LOCATIONS ONLY, ACCORDING TO N.J.S.A. 48:2-73 ET SEQ. ANYONE PLANNING EXCAVATIONS IN THE AREA MUST CALL 811 FOR A MARKOUT OF THE UNDERGROUND UTILITIES. DO NOT RELY ON THIS PLAN FOR UNDERGROUND UTILITY LOCATIONS.
5. TIMBER MATTING IS PROPOSED TO MINIMIZE DISTURBANCES IN REGULATED AREAS (WETLANDS/WATERS) AND TO PROVIDE ADDITIONAL PROTECTION TO UNDERGROUND GAS LINES AS REQUIRED PER SAFETY PROTOCOLS. AT THE CONTRACTORS DISCRETION, AND WITH THE APPROVAL OF OCEAN WIND LLC, GRAVEL OVER FILTER FABRIC MAY BE USED IN LIEU OF TIMBER MATTING FOR TEMPORARY ACCESS ROADS AND WORK PADS LOCATED IN AREAS THAT ARE NOT THREATENED/ ENDANGERED SPECIES HABITAT. GRAVEL OVER FILTER FABRIC IS NOT PERMITTED IN WETLANDS OR WATER AREAS THAT ARE THREATENED/ENDANGERED SPECIES HABITAT. FOR ADDITIONAL INFORMATION SEE COMPLIANCE STATEMENT INCLUDED IN APPLICATION.
6. THE STATE OF NEW JERSEY HAS DETERMINED THAT A PORTION OF THIS PROJECT LIES IN FLOOD HAZARD AREA AND RIPARIAN ZONE. CERTAIN ACTIVITIES IN FLOOD HAZARD AREAS AND RIPARIAN ZONES ARE REGULATED BY THE NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND SOME ACTIVITIES MAY BE PROHIBITED ON THIS SITE OR MAY FIRST REQUIRE A PERMIT. CONTACT THE DIVISION OF LAND RESOURCE PROTECTION AT (609) 777-0454 FOR MORE INFORMATION PRIOR TO ANY CONSTRUCTION ONSITE.
7. THESE PLANS ARE FOR DESIGN AND PERMITTING PURPOSES ONLY AND NOT INTENDED FOR CONSTRUCTION. THE ORIGINAL SIGNED DOCUMENT WITH A RAISED OR DIGITAL SEAL IS THE DOCUMENT OF RECORD.
8. WETLANDS SHOWN HEREON WERE DELINEATED BY HDR JUNE 2019, MAY 2020 AND LOCATED BY NJ LICENSED LAND SURVEYOR GEOD CORPORATION. WETLAND AND WATERCOURSE EXTENTS CONFIRMED BY NJDEP WITH SITE VERIFICATION NOVEMBER 2021. ADDITIONAL WETLANDS WITHIN PROPOSED ONSHORE CONSTRUCTION AREA CONFIRMED IN VALID NJDEP LETTER ON INTERPRETATION ISSUED AUGUST 15, 2017 (FILE NO. 1512-17-0013.1). SHAPEFILES PROVIDED BY HDR JANUARY 10, 2022.

REFERENCES:

1. IMAGERY PROVIDED BY NEARMAP DATED OCTOBER 2021
2. FOR A COMPLETE LIST OF REFERENCES SEE REFERENCE SHEET 22

Ocean Wind
An Ørsted & PSEG project

E 2 PROJECT MANAGEMENT LLC

87 HIBERNIA AVENUE
ROCKAWAY, N.J. 07866
PHONE: (973) 299-5200
FAX: (973) 299-5059
www.E2PM.com

THIS DRAWING DOES NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. ALL CONSTRUCTION MUST BE DONE IN COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 AND ALL RULES AND REGULATIONS THERETO APPURTENANT. THIS DRAWING AND THE DESIGN FEATURES OR CONSTRUCTION DISCLOSED ARE PROPRIETARY TO E2 PROJECT MANAGEMENT LLC AND SHALL NOT BE REPRODUCED, ALTERED OR COPIED WITHOUT WRITTEN PERMISSION, SHALL NOT BE USED IN ANY MANNER DETRIMENTAL TO ITS INTEREST AND SHALL BE RETURNED UPON REQUEST.

date	detailed
4/27/22	APG
designed	checked
JMS	KLH/JMS

USACE INDIVIDUAL PERMIT PLANS

OCEAN WIND OFFSHORE WIND PROJECT

OYSTER CREEK LOCATION
LACEY TWP, NJ 0875

project	RDS-PP CODE
P-21-03-26	

drawing **OL-OC017** – rev. **0**

sheet 17 of 22 sheets

file 1213.dwg

LEGEND

- EXPORT CABLE
- EXPORT CABLE (HDD)
- TEMPORARY CONSTRUCTION EASEMENT LINE
- PERMANENT UTILITY EASEMENT LINE
- FEMA LINE AND DESIGNATION
- WETLAND LINE
- LOD — LIMIT OF DISTURBANCE
- OVER-WASH AREA LINE
- DUNE LIMITS
- LAYDOWN AREA (TO BE CLEARED AND OVERLAID WITH STONE OR TIMBER MATTING)
- TEMPORARY COASTAL EMERGENT WETLANDS DISTURBANCE FOR WORKSPACE FOR HV CABLE TRANSITION JOINT BAY WORK AREA (E2EM1PD)
- TJB/MANHOLE

LACEY TOWNSHIP

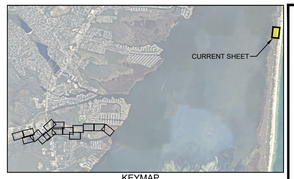
Interpolation between tidal stations #8533615 BARNEGAT INLET (INSIDE), NJ and #8535101 CORSON INLET, NJ

		NAVD-88 FEET	NGVD-29 FEET
SPRING HIGH TIDE	SHTL	**0.59**	**-0.66**
MEAN HIGHER HIGH WATER	MHHW	**0.76**	**-0.49**
MEAN HIGH WATER	MHW	**0.6**	**-0.65**
MEAN TIDE LEVEL	MTL	**-0.02**	**-1.27**
MEAN LOW WATER	MLW	**-0.63**	**-1.88**
MEAN LOWER LOW WATER	MLLW	**-0.74**	**-1.99**

NAVD-88 TO NGVD-29 CONVERTION FACTOR = -1.25'

USACE SHEET IMPACT SUMMARY TABLE

	ABOVE SHTL	BELOW SHTL	TOTAL
WETLANDS E2EM1PD			
PERMANENT			
TEMPORARY	12734 SQ.FT. 0.292 ACRES		12734 SQ.FT. 0.292 ACRES
OPEN WATERS			
PERMANENT			
TEMPORARY			



KEYMAP
SCALE: 1"=10,000'

0 50' 100'
SCALE IN FEET

Katherine L. Hering P. E. 24GE04226900

Digitally signed by Katherine L. Hering P. E. 24GE04226900
Date: 2022.04.27 14:55:11 -04'00'

STATE OF NEW JERSEY
KATHERINE L. HERING
No. GE42269
LICENSED PROFESSIONAL ENGINEER

KATHERINE L. HERING, P.E. N.J. NO. 24GE04226900
LICENSED PROFESSIONAL ENGINEER

no.	date	by	ckd	description
0	4/27/2022	AG/JS	JS/KH	ISSUED FOR PERMIT REVIEW AND APPROVAL

NOTES:

1. MAPPING IS BASED ON THE NJ STATE PLANE COORDINATE SYSTEM.
   HORIZONTAL DATUM = NAD-83 (2011)
   VERTICAL DATUM = NAVD-88
   NAVD-88 TO NGVD-29 CONVERSION FACTOR = -1.26'
   UNITS = U.S. FOOT
   PROJECT COMBINED GRID SCALE FACTOR = 0.999897978
2. PLANS HAVE BEEN PREPARED TO SUPPORT THE FILING OF U.S. ARMY CORPS OF ENGINEERS INDIVIDUAL APPLICATION FOR OCEAN WIND LLC ONSHORE IMPACTS.
3. ONLY OCEAN WIND LLC LAND RIGHTS HAVE BEEN SURVEYED. ADJOINING TAX LOT LOCATIONS ARE APPROXIMATE AND ARE SHOWN FOR REFERENCE ONLY.
4. UNDERGROUND UTILITY LINES AND EASEMENTS SHOWN ARE APPROXIMATE AND BASED ON RECORD INFORMATION AND/OR ABOVE GROUND MARKER LOCATIONS ONLY, ACCORDING TO N.J.S.A. 48:2-73 ET SEQ. ANYONE PLANNING EXCAVATIONS IN THE AREA MUST CALL 811 FOR A MARKOUT OF THE UNDERGROUND UTILITIES. DO NOT RELY ON THIS PLAN FOR UNDERGROUND UTILITY LOCATIONS.
5. TIMBER MATTING IS PROPOSED TO MINIMIZE DISTURBANCES IN REGULATED AREAS (WETLANDS/WATERS) AND TO PROVIDE ADDITIONAL PROTECTION TO UNDERGROUND GAS LINES AS REQUIRED PER SAFETY PROTOCOLS. AT THE CONTRACTOR'S DISCRETION, AND WITH THE APPROVAL OF OCEAN WIND LLC, GRAVEL OVER FILTER FABRIC MAY BE USED IN LIEU OF TIMBER MATTING FOR TEMPORARY ACCESS ROADS AND WORK PADS LOCATED IN AREAS THAT ARE NOT THREATENED/ ENDANGERED SPECIES HABITAT. GRAVEL OVER FILTER FABRIC IS NOT PERMITTED IN WETLANDS. FOR ADDITIONAL INFORMATION SEE COMPLIANCE STATEMENT INCLUDED IN APPLICATION.
6. THE STATE OF NEW JERSEY HAS DETERMINED THAT A PORTION OF THIS PROJECT LIES IN FLOOD HAZARD AREA AND RIPARIAN ZONE. CERTAIN ACTIVITIES IN FLOOD HAZARD AREAS AND RIPARIAN ZONES ARE REGULATED BY THE NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND SOME ACTIVITIES MAY BE PROHIBITED ON THIS SITE OR MAY FIRST REQUIRE A PERMIT. CONTACT THE DIVISION OF LAND RESOURCE PROTECTION AT (609) 777-0454 FOR MORE INFORMATION PRIOR TO ANY CONSTRUCTION ONSITE.
7. THESE PLANS ARE FOR DESIGN AND PERMITTING PURPOSES ONLY AND NOT INTENDED FOR CONSTRUCTION. THE ORIGINAL SIGNED DOCUMENT WITH A RAISED SEAL IS THE DOCUMENT OF RECORD.
8. WETLANDS DELINEATED BY HDR ENGINEERING, INC. SEPTEMBER 15 AND 16, 2019 AND MARCH 21, 2022 AND SURVEYED BY NJ PROFESSIONAL LAND SURVEYOR GEOD CORPORATION.

REFERENCES:

1. IMAGERY PROVIDED BY NEARMAP DATED OCTOBER 2021

Ocean Wind
An Ørsted & PSEG project

E 2 PROJECT MANAGEMENT LLC

87 HIBERNIA AVENUE
ROCKAWAY, N.J. 07866
PHONE: (973) 299-5200
FAX: (973) 299-5059
www.E2PM.com

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date	detailed
4/27/22	APG
designed	checked
JMS	KLH/JMS

KEY MAP

LEGEND

SHEET VIEW LOCATION

PROPOSED EXPORT CABLE
PROPOSED EXPORT CABLE (HDD)

ARMY CORPS OF ENGINEERS JURISDICTIONAL RESOURCE IMPACT TABLE

	ABOVE SHTL PERMANENT	ABOVE SHTL TEMPORARY	BELOW SHTL PERMANENT	BELOW SHTL TEMPORARY
WETLANDS PFO1B				
		53898 SQ.FT. 1.237 ACRES		
WETLANDS PEM1E				
	28304 SQ.FT. 0.650 ACRES	1909 SQ.FT. 0.044 ACRES		
WETLANDS E2EM1PD				
		249 SQ.FT. 0.006 ACRES		
TOTAL IMPACTS	ABOVE SHTL PERMANENT	ABOVE SHTL TEMPORARY	BELOW SHTL PERMANENT	BELOW SHTL TEMPORARY
	28304 SQ.FT. 0.650 ACRES	56,056 SQ.FT. 1.287 ACRES		NONE
STATE OPEN WATERS				NONE

OCEAN CITY

Interpolation between tidal stations #8535101 CORSON INLET, NJ and #8534778 STEELMANVILLE, PATCONG

		NAVD-88 FEET	NGVD-29 FEET
SPRING HIGH TIDE	SHT	**2.03**	**0.77**
MEAN HIGHER HIGH WATER	MHHW	**1.99**	**0.73**
MEAN HIGH WATER	MHW	**1.62**	**0.36**
MEAN TIDE LEVEL	MTL	**-0.25**	**-1.51**
MEAN LOW WATER	MLW	**-2.11**	**-3.37**
MEAN LOWER LOW WATER	MLLW	**-2.28**	**-3.54**

NAVD-88 TO NGVD-29 CONVERTION FACTOR = -1.26'

0 600' 1200'
SCALE IN FEET

Katherine L. Hering P. E. 24GE04226900

Digitally signed by Katherine L. Hering P. E. 24GE04226900
Date: 2022.04.27 16:04:24 -04'00'

STATE OF NEW JERSEY
KATHERINE L. HERING
No. GE42269
LICENSED PROFESSIONAL ENGINEER

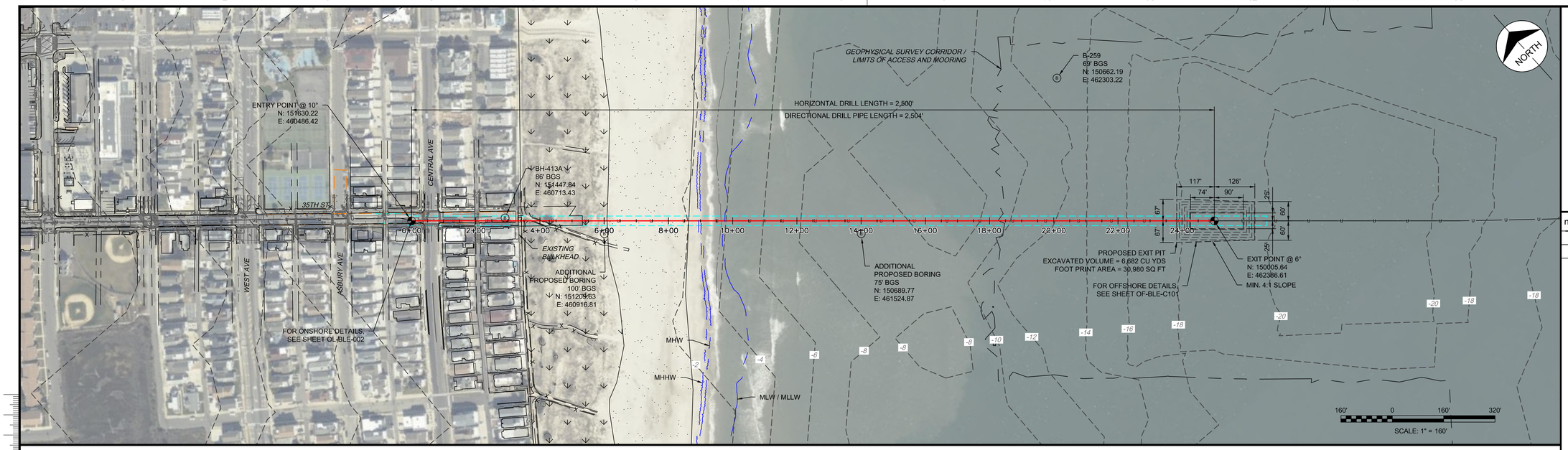
KATHERINE L. HERING, P.E. N.J. NO. 24GE04226900
LICENSED PROFESSIONAL ENGINEER

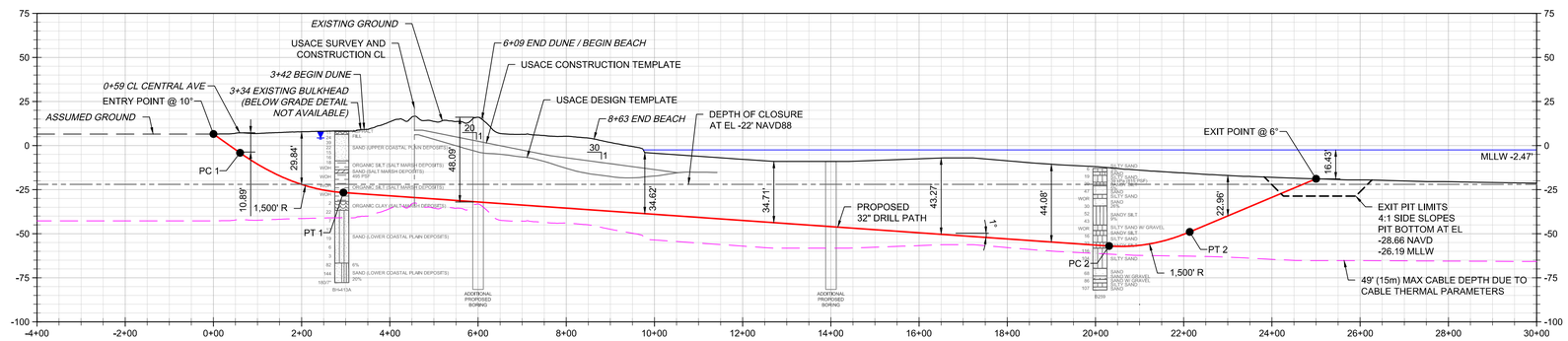
OCEAN WIND OFFSHORE WIND PROJECT
OCEAN CITY/UPPER TOWNSHIP
CAPE MAY COUNTY, NEW JERSEY

project	RDS-PP CODE
drawing	rev.
OL-BLE001 –	**0**

sheet 1 of 23 sheets
file 1213.dwg

Scale For Microfilming
Millimeters
Inches





DIRECTIONAL DRILL DATA		
DESCRIPTION	STATION (ft)	ELEVATION (ft)
ENTRY POINT @ 10°	0+00.00	6.52
PC 1 (1,500' R)	0+60.31	-4.11
PT 1 @ 1°	2+94.60	-26.67
PC 2 (1,500' R)	20+30.63	-56.97
PT 2	22+13.61	-48.98
EXIT POINT @ 6°	25+00.00	-18.88
HORIZONTAL DISTANCE (ft) = 2,500.00		
DIRECTIONAL DRILL PIPE LENGTH (ft) = 2,504.39		

GENERAL NOTES

1. NORTHINGS AND EASTINGS ARE IN US SURVEY FEET REFERENCED TO NAD83, NEW JERSEY STATE PLANE, US FOOT.
2. ALL ELEVATIONS ARE REFERENCE TO THE MEAN LOWER LOW (MLLW) LEVEL.
3. AERIAL IMAGERY PROVIDED BY GOOGLE EARTH.
4. TOPOGRAPHIC SURVEY WAS PROVIDED BY ØRSTED.
5. BASE FILE(S) PROVIDED BY ØRSTED.
6. BATHYMETRIC SURVEY DATA PROVIDED BY ØRSTED 2021 AND BASED ON SITE INVESTIGATION HIGH RESOLUTION GEOPHYSICAL FIELD STUDIES CONDUCTED FROM 2019 THROUGH 2021. SUPPLEMENTAL BATHYMETRY FOR BARNEGAT BAY PROVIDED BY NOAA 2014 POST SANDY TOPOBATHY LIDAR.
7. DRILL PATH STATIONING IS IN FEET BY HORIZONTAL MEASUREMENT AND IS REFERENCED TO THE CONTROL POSITION FOR THE CROSSING.
8. DEPICTED WATER LEVEL INFORMATION SOURCED FROM NOAA VDATUM.
9. LOCATION OF HDD RIG, OFFSHORE MARINE EQUIPMENT AND SUPPORT STRUCTURES ARE NOT FIXED BY DESIGNATION OF HDD ENTRY OR EXIT POINT AND ARE LIKELY TO CHANGE DURING CONSTRUCTION.
10. VESSELS, EQUIPMENT, AND SUPPORT STRUCTURES ARE FOR ILLUSTRATION PURPOSES ONLY AND SHALL BE THE CONTRACTORS RESPONSIBILITY FOR SELECTING APPROPRIATELY SIZED AND CAPABLE EQUIPMENT FOR COMPLETING THE WORK.
11. CONTRACTOR MUST REVIEW AND APPROVE ALL IN-WATER STRUCTURES AND COMPONENTS REQUIRED FOR CONSTRUCTION IN ORDER TO CONFIRM WITH SAFETY REQUIREMENTS, WATER DEPTH UNCERTAINTY, POSSIBILITY OF EXTREME WAVES AND ANY OTHER CONCERNS FOR THE SAFE AND SUCCESSFUL INSTALLATION OF CROSSING IN THE OFFSHORE ENVIRONMENT.
12. OFFSHORE CONTRACTOR TO ENSURE CARRIER PIPE STRING IS FREE OF DEBRIS AND SILT-IN PRIOR TO PULLBACK.
13. VERTICAL DIMENSIONS OF EQUIPMENT NOT TO SCALE.
14. GEOTECHNICAL DATA AND INFORMATION IS PRESENTED FOR REFERENCE ONLY. REVIEW THE ASSOCIATED GEOTECHNICAL REPORT FOR ALL INTERPRETATIONS AND DETERMINATIONS REGARDING SUBSURFACE CONDITIONS.
15. VERTICAL DATUM CONVERSION: NGVD29 = NAVD88 + 1.388FT ± 0.049FT
16. USACE BEACH NOURISHMENT CONSTRUCTION/DESIGN TEMPLATE SHOWN PER US ARMY CORPS OF ENGINEERS PHILADELPHIA DISTRICT DRAWING "C-305 TYPICAL SECTION - 35TH STREET OCEAN CITY".

TIDAL DATUMS (NAVD88 FT ELEVATIONS)	BL ENGLAND ATLANTIC SHORELINE
MHHW	1.96
MHW	1.56
MTL	-0.37
MLW	-2.32
MLLW	-2.47

LEGEND

- PROPOSED DRILL PATH
- PROPOSED WORKSPACE
- TEMPORARY EASEMENT
- PERMANENT EASEMENT
- PROPOSED EXCAVATION
- CABLE ROUTE
- USACE BEACH NOURISHMENT CONSTRUCTION / DESIGN TEMPLATE
- WATER LEVEL
- CABLE DEPTH DUE TO CABLE THERMAL PARAMETERS
- GEOPHYSICAL SURVEY CORRIDOR / LIMITS OF ACCESS AND MOORING
- VEGETATED DUNE
- BEACH
- HDD ENTRY / EXIT POINT
- GEOTECHNICAL BORE LOCATION
- COHESIVE SOILS, UCS, TONS/FT² — BLOWS/FT
- MATERIAL GRAPHIC — GRAVEL CONTENT — UNCONFINED COMPRESSIVE STRENGTH (PSF)
- WATER LEVEL AFTER SAMPLING
- WATER LEVEL DURING SAMPLING

no.	date	by	ckd	description
A	04/27/22	TSV	DPB	ISSUED FOR PERMIT

FOR PERMITTING APPROVAL

Ocean Wind
An Ørsted & PSEG project

HDR ENGINEERING, INC.
1 INTERNATIONAL BOULEVARD, SUITE 1000
MAHWAH, NJ 07495

date	detailed
04/27/22	T. VONBERGE
designed	checked
R. SCHOO	D. BEARDEN

NJ CERTIFICATE OF AUTHORIZATION 24GA28010700

REILLY J. SCHOO

STATE OF NEW JERSEY — REILLY J. SCHOO — No. 24GE05344300 — PROFESSIONAL ENGINEER — 4-27-2022

N.J. PROFESSIONAL ENGINEER NO. 24GE05344300

CAPE MAY COUNTY, NEW JERSEY

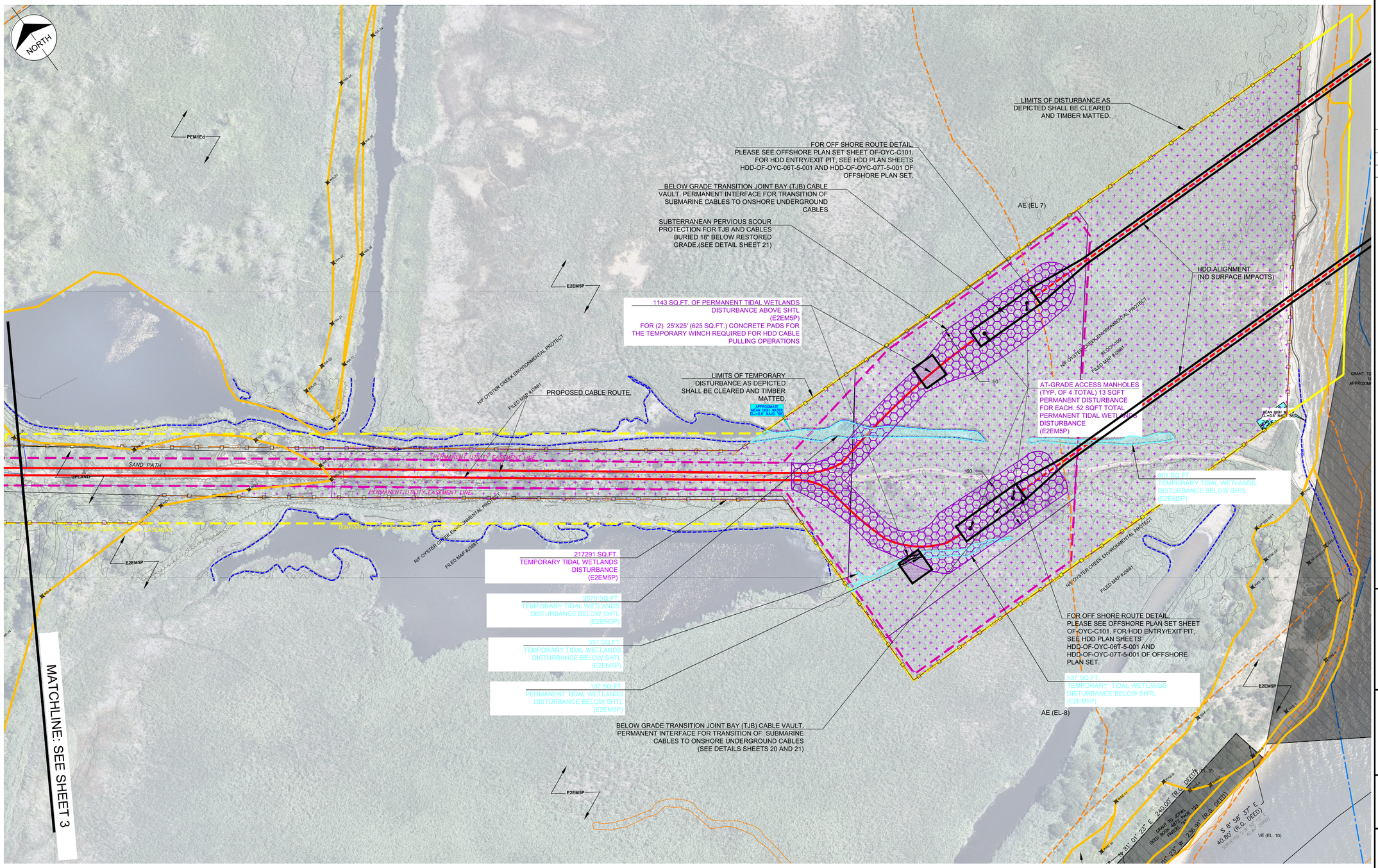
32" OC3_A CROSSING
BL ENGLAND / 35TH STREET CROSSING
HORIZONTAL DIRECTIONAL DRILL
PLAN AND PROFILE

project	RDS-PP CODE
-	-

drawing HDD-OF-BLE-01T-5-001 — rev. A

sheet 1 of 11 sheets

file HDD-OF-BLE-01T-5-001



no.	date	by	ckd	description
0	4/27/2022	AG/JS	JS/KH	ISSUED FOR PERMIT REVIEW AND APPROVAL

NOTES:

1. MAPPING IS BASED ON THE NJ STATE PLANE COORDINATE SYSTEM.
   HORIZONTAL DATUM = NAD-83 (2011)
   VERTICAL DATUM = NAVD-88
   UNITS = U.S. FOOT
   PROJECT COMBINED GRID SCALE FACTOR = 0.999897978

   VERTICAL DATUM CONVERSION:
   NGVD88 = NAVD29 - 1.25 FT
2. PLANS HAVE BEEN PREPARED TO SUPPORT THE FILING OF U.S. ARMY CORPS OF ENGINEERS INDIVIDUAL APPLICATION FOR OCEAN WIND LLC ONSHORE IMPACTS.
3. ONLY OCEAN WIND LLC LAND RIGHTS HAVE BEEN SURVEYED, ADJOINING TAX LOT LOCATIONS ARE APPROXIMATE AND ARE SHOWN FOR REFERENCE ONLY.
4. UNDERGROUND UTILITY LINES AND EASEMENTS SHOWN ARE APPROXIMATE AND BASED ON RECORD INFORMATION AND/OR ABOVE GROUND MARKER LOCATIONS ONLY, ACCORDING TO N.J.S.A. 48:2-73 ET SEQ. ANYONE PLANNING EXCAVATIONS IN THE AREA MUST CALL 811 FOR A MARKOUT OF THE UNDERGROUND UTILITIES. DO NOT RELY ON THIS PLAN FOR UNDERGROUND UTILITY LOCATIONS.
5. TIMBER MATTING IS PROPOSED TO MINIMIZE DISTURBANCES IN REGULATED AREAS (WETLANDS/WATERS) AND TO PROVIDE ADDITIONAL PROTECTION TO UNDERGROUND GAS LINES AS REQUIRED PER SAFETY PROTOCOLS. AT THE CONTRACTORS DISCRETION, AND WITH THE APPROVAL OF OCEAN WIND LLC, GRAVEL OVER FILTER FABRIC MAY BE USED IN LIEU OF TIMBER MATTING FOR TEMPORARY ACCESS ROADS AND WORK PADS LOCATED IN AREAS THAT ARE NOT THREATENED/ ENDANGERED SPECIES HABITAT. GRAVEL OVER FILTER FABRIC IS NOT PERMITTED IN WETLANDS OR WATER AREAS THAT ARE THREATENED/ENDANGERED SPECIES HABITAT. FOR ADDITIONAL INFORMATION SEE COMPLIANCE STATEMENT INCLUDED IN APPLICATION.
6. THE STATE OF NEW JERSEY HAS DETERMINED THAT A PORTION OF THIS PROJECT LIES IN FLOOD HAZARD AREA AND RIPARIAN ZONE. CERTAIN ACTIVITIES IN FLOOD HAZARD AREAS AND RIPARIAN ZONES ARE REGULATED BY THE NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND SOME ACTIVITIES MAY BE PROHIBITED ON THIS SITE OR MAY FIRST REQUIRE A PERMIT. CONTACT THE DIVISION OF LAND RESOURCE PROTECTION AT (609) 777-0454 FOR MORE INFORMATION PRIOR TO ANY CONSTRUCTION ONSITE.
7. THESE PLANS ARE FOR DESIGN AND PERMITTING PURPOSES ONLY AND NOT INTENDED FOR CONSTRUCTION. THE ORIGINAL SIGNED DOCUMENT WITH A RAISED OR DIGITAL SEAL IS THE DOCUMENT OF RECORD.
8. WETLANDS SHOWN HEREON WERE DELINEATED BY HDR JUNE 2019, MAY 2020 AND LOCATED BY NJ LICENSED LAND SURVEYOR GEOD CORPORATION. WETLAND AND WATERCOURSE EXTENTS CONFIRMED BY NJDEP WITH SITE VERIFICATION NOVEMBER 2021. ADDITIONAL WETLANDS WITHIN PROPOSED ONSHORE CONSTRUCTION AREA CONFIRMED IN VALID NJDEP LETTER ON INTERPRETATION ISSUED AUGUST 15, 2017 (FILE NO. 1512-17-0013.1). SHAPEFILES PROVIDED BY HDR JANUARY 10, 2022.

REFERENCES:

1. IMAGERY PROVIDED BY NEARMAP DATED OCTOBER 2021
2. FOR A COMPLETE LIST OF REFERENCES SEE REFERENCE SHEET 22

Ocean Wind
An Ørsted & PSEG project

E 2 PROJECT MANAGEMENT LLC

87 HIBERNIA AVENUE
ROCKAWAY, N.J. 07866
PHONE: (973) 299-5200
FAX: (973) 299-5059
www.E2PM.com

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date	detailed
4/27/22	APG
designed	checked
JMS	KLH/JMS

USACE INDIVIDUAL PERMIT PLANS

OCEAN WIND OFFSHORE WIND PROJECT

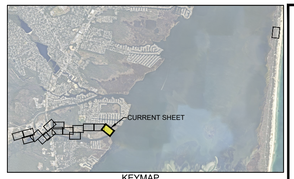
OYSTER CREEK LOCATION
LACEY TWP, NJ 0875

project	RDS-PP CODE
P-21-03-26	

drawing **OL-OC002** – rev. **0**

sheet 2 of 22 sheets

file 1213.dwg



KEYMAP
SCALE:1"=10,000'

0 50' 100'
SCALE IN FEET

Katherine L. Hering P. E. 24GE04226900

Digitally signed by Katherine L. Hering P. E. 24GE04226900
Date: 2022.04.27 14:19:25 -04'00'

STATE OF NEW JERSEY
KATHERINE L. HERING
No. GE42269
LICENSED PROFESSIONAL ENGINEER

KATHERINE L. HERING, P.E. N.J. NO. 24GE04226900
LICENSED PROFESSIONAL ENGINEER

LEGEND

- PROPOSED EXPORT CABLE
- TEMPORARY CONSTRUCTION EASEMENT LINE
- PERMANENT UTILITY EASEMENT LINE
- FEMA LINE AND DESIGNATION
- LIMIT OF DELINEATED WETLAND
- LOD — LIMIT OF DISTURBANCE
- SILT FENCE/SILT SOCK
- EXPORT CABLE (HDD)
- 1963 SHELLFISH MAPPING LAYER
- MEAN HIGH WATER LINE
- PERMANENT COASTAL TIDAL WETLANDS DISTURBANCE BELOW SHTL (E2EM5P)
- TEMPORARY COASTAL TIDAL WETLANDS DISTURBANCE (E2EM5P)
- PERMANENT COASTAL TIDAL WETLANDS DISTURBANCE ABOVE SHTL (E2EM5P)

LACEY TOWNSHIP

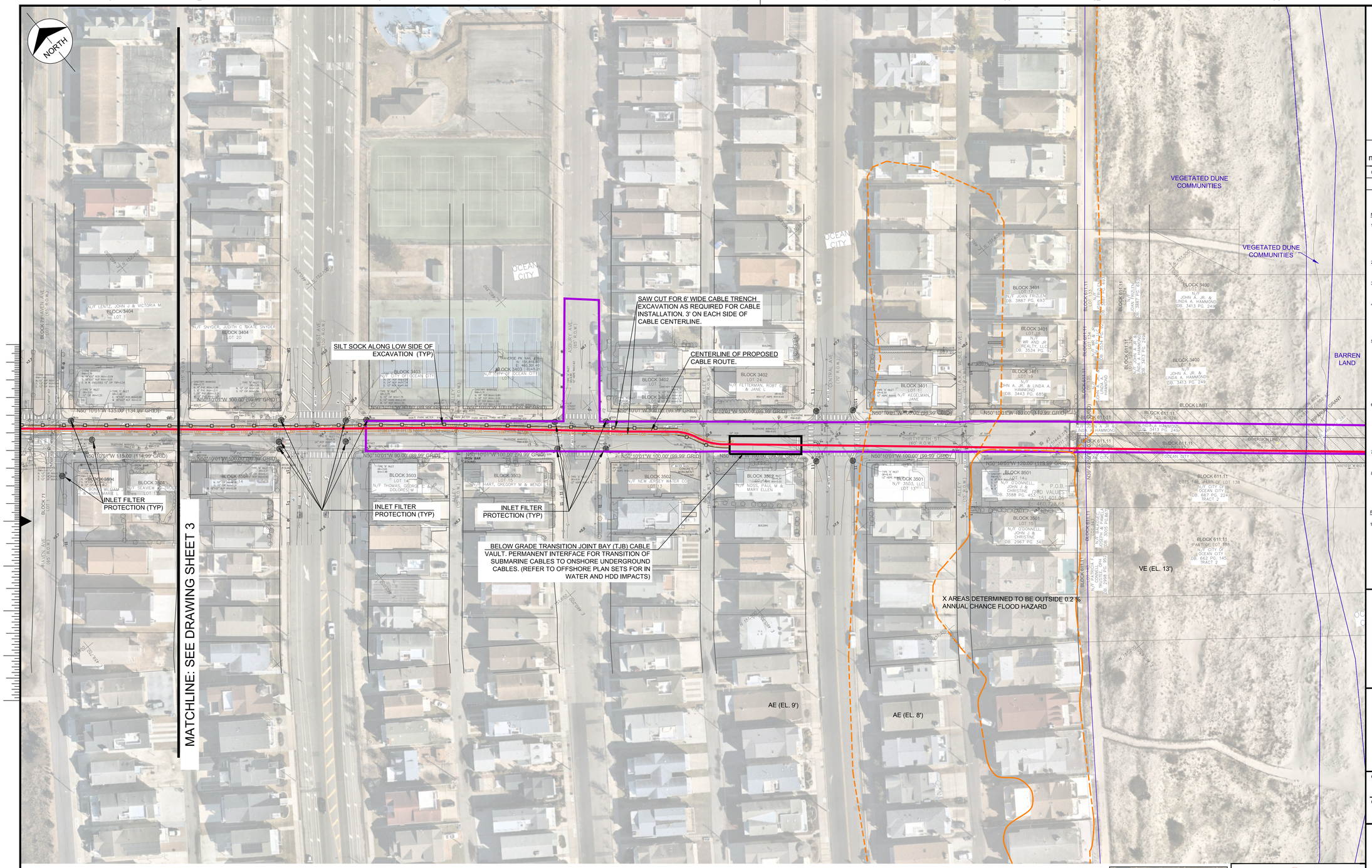
Interpolation between tidal stations #8533615 BARNEGAT INLET (INSIDE), NJ and #8535101 CORSON INLET, NJ

		NAVD-88 FEET	NGVD-29 FEET
SPRING HIGH TIDE	SHTL	**0.59**	**-0.66**
MEAN HIGHER HIGH WATER	MHHW	**0.76**	**-0.49**
MEAN HIGH WATER	MHW	**0.6**	**-0.65**
MEAN TIDE LEVEL	MTL	**-0.02**	**-1.27**
MEAN LOW WATER	MLW	**-0.63**	**-1.88**
MEAN LOWER LOW WATER	MLLW	**-0.74**	**-1.99**

NAVD-88 TO NGVD-29 CONVERTION FACTOR = -1.25'

USACE SHEET IMPACT SUMMARY TABLE

	ABOVE SHTL	BELOW SHTL	TOTAL
WETLANDS E2EM5P			
PERMANENT	1195 SQ.FT. 0.027 ACRES	107 SQ.FT. 0.002 ACRES	1302 SQ.FT. 0.030 ACRES
TEMPORARY	217291 SQ.FT. 4.988 ACRES	4365 SQ.FT. 0.100 ACRES	221656 SQ.FT. 5.089 ACRES
OPEN WATERS			
PERMANENT			
TEMPORARY			



no.	date	by	ckd	description
0	4/27/2022	AG/JS	JS/KH	ISSUED FOR PERMIT REVIEW AND APPROVAL

NOTES:

1. MAPPING IS BASED ON THE NJ STATE PLANE COORDINATE SYSTEM.
   HORIZONTAL DATUM = NAD-83 (2011)
   VERTICAL DATUM = NAVD-88
   NAVD-88 TO NGVD-29 CONVERSION FACTOR = -1.26'
   UNITS = U.S. FOOT
   PROJECT COMBINED GRID SCALE FACTOR = 0.999897978
2. PLANS HAVE BEEN PREPARED TO SUPPORT THE FILING OF U.S. ARMY CORPS OF ENGINEERS INDIVIDUAL APPLICATION FOR OCEAN WIND LLC ONSHORE IMPACTS.
3. ONLY OCEAN WIND LLC LAND RIGHTS HAVE BEEN SURVEYED. ADJOINING TAX LOT LOCATIONS ARE APPROXIMATE AND ARE SHOWN FOR REFERENCE ONLY.
4. UNDERGROUND UTILITY LINES AND EASEMENTS SHOWN ARE APPROXIMATE AND BASED ON RECORD INFORMATION AND/OR ABOVE GROUND MARKER LOCATIONS ONLY, ACCORDING TO N.J.S.A. 48:2-73 ET SEQ. ANYONE PLANNING EXCAVATIONS IN THE AREA MUST CALL 811 FOR A MARKOUT OF THE UNDERGROUND UTILITIES. DO NOT RELY ON THIS PLAN FOR UNDERGROUND UTILITY LOCATIONS.
5. TIMBER MATTING IS PROPOSED TO MINIMIZE DISTURBANCES IN REGULATED AREAS (WETLANDS/WATERS) AND TO PROVIDE ADDITIONAL PROTECTION TO UNDERGROUND GAS LINES AS REQUIRED PER SAFETY PROTOCOLS. AT THE CONTRACTOR'S DISCRETION, AND WITH THE APPROVAL OF OCEAN WIND LLC, GRAVEL OVER FILTER FABRIC MAY BE USED IN LIEU OF TIMBER MATTING FOR TEMPORARY ACCESS ROADS AND WORK PADS LOCATED IN AREAS THAT ARE NOT THREATENED/ ENDANGERED SPECIES HABITAT. GRAVEL OVER FILTER FABRIC IS NOT PERMITTED IN WETLANDS. FOR ADDITIONAL INFORMATION SEE COMPLIANCE STATEMENT INCLUDED IN APPLICATION.
6. THE STATE OF NEW JERSEY HAS DETERMINED THAT A PORTION OF THIS PROJECT LIES IN FLOOD HAZARD AREA AND RIPARIAN ZONE. CERTAIN ACTIVITIES IN FLOOD HAZARD AREAS AND RIPARIAN ZONES ARE REGULATED BY THE NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND SOME ACTIVITIES MAY BE PROHIBITED ON THIS SITE OR MAY FIRST REQUIRE A PERMIT. CONTACT THE DIVISION OF LAND RESOURCE PROTECTION AT (609) 777-0454 FOR MORE INFORMATION PRIOR TO ANY CONSTRUCTION ONSITE.
7. THESE PLANS ARE FOR DESIGN AND PERMITTING PURPOSES ONLY AND NOT INTENDED FOR CONSTRUCTION. THE ORIGINAL SIGNED DOCUMENT WITH A RAISED SEAL IS THE DOCUMENT OF RECORD.
8. WETLANDS DELINEATED BY HDR ENGINEERING, INC. SEPTEMBER 15 AND 16, 2019 AND MARCH 21, 2022 AND SURVEYED BY NJ PROFESSIONAL LAND SURVEYOR GEOD CORPORATION.

REFERENCES:

1. IMAGERY PROVIDED BY NEARMAP DATED OCTOBER 2021

Ocean Wind
An Ørsted & PSEG project

E 2 PROJECT MANAGEMENT LLC

87 HIBERNIA AVENUE
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PHONE: (973) 299-5200
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date	detailed
4/27/22	APG
designed	checked
JMS	KLH/JMS

USACE INDIVIDUAL PERMIT PLAN

OCEAN WIND OFFSHORE WIND PROJECT
OCEAN CITY
CAPE MAY COUNTY, NEW JERSEY

project	RDS-PP CODE

drawing **OL-BLE002** rev. **0**

sheet 2 of 23 sheets

file 1213.dwg

KEYMAP
SCALE:1"=10,000'

0 50' 100'
SCALE IN FEET

Katherine L. Hering P. E. 24GE04226900

Digitally signed by Katherine L. Hering P. E. 24GE04226900
Date: 2022.04.27 16:05:28 -04'00'

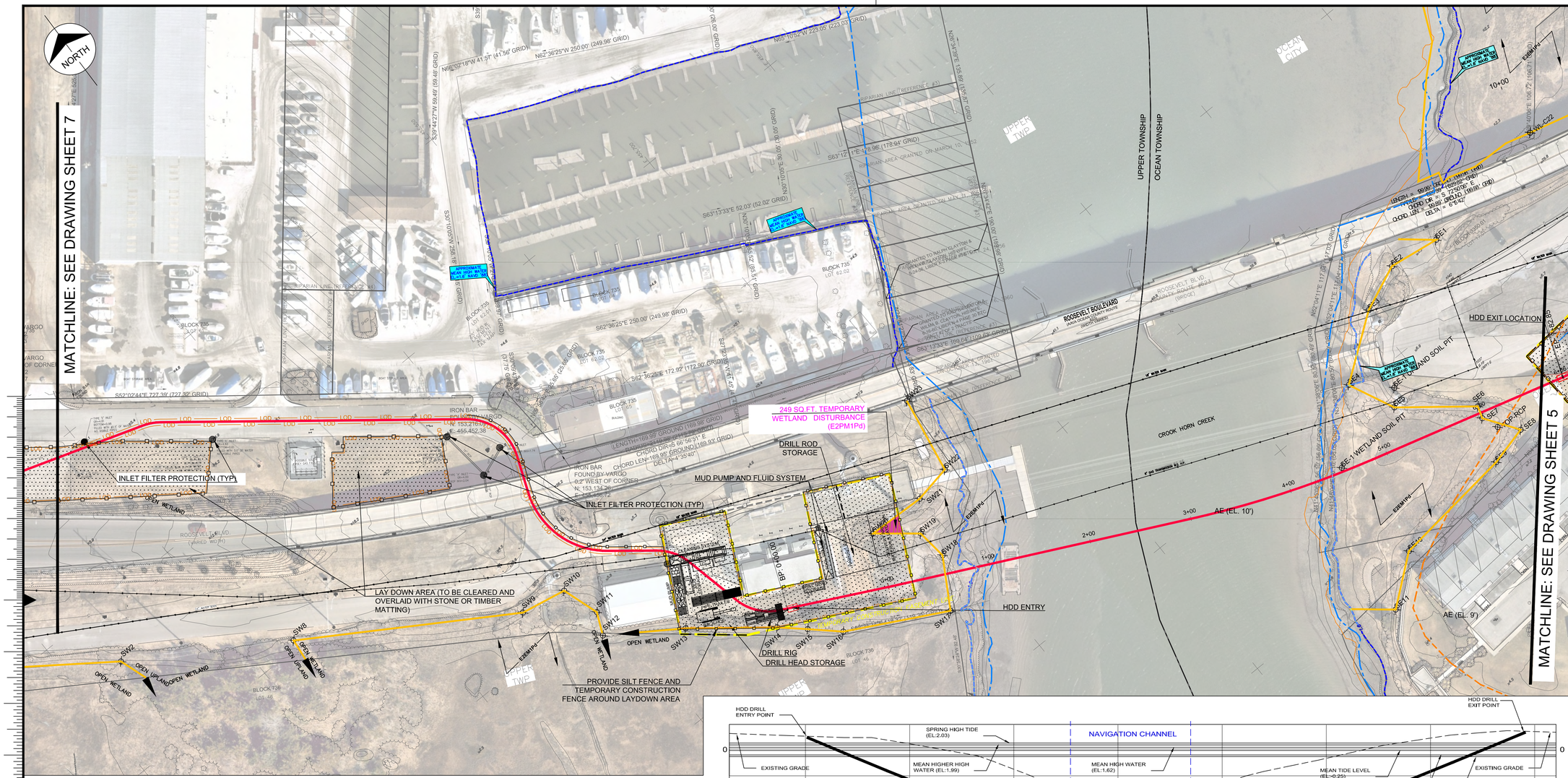
STATE OF NEW JERSEY
KATHERINE L. HERING
No. GE42269
LICENSED PROFESSIONAL ENGINEER

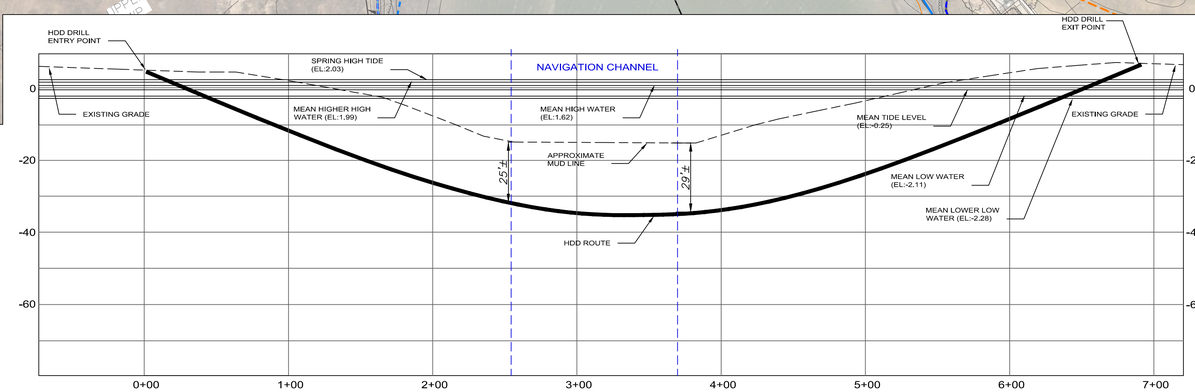
KATHERINE L. HERING, P.E. N.J. NO. 24GE04226900
LICENSED PROFESSIONAL ENGINEER

LEGEND

- PROPOSED EXPORT CABLE
- TEMPORARY HDD WORSPACE
- FEMA LINE AND DESIGNATION
- LIMIT OF DISTURBANCE
- SILT FENCE/SILT SOCK
- DUNE LIMITS

NO IMPACT TO REGULATED AREAS ON THIS SHEET





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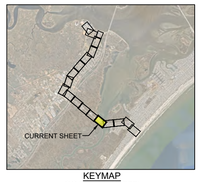

KEYMAP
SCALE:1"=10,000'

OCEAN CITY

Interpolation between tidal stations #8535101 CORSON INLET, NJ and #8534778 STEELMANVILLE, PATCONG

		NAVD-88 FEET	NGVD-29 FEET
SPRING HIGH TIDE	SHT	**2.03**	**0.77**
MEAN HIGHER HIGH WATER	MHHW	**1.99**	**0.73**
MEAN HIGH WATER	MHW	**1.62**	**0.36**
MEAN TIDE LEVEL	MTL	**-0.25**	**-1.51**
MEAN LOW WATER	MLW	**-2.11**	**-3.37**
MEAN LOWER LOW WATER	MLLW	**-2.28**	**-3.54**

NAVD-88 TO NGVD-29 CONVERTION FACTOR = -1.26'

LEGEND

- PROPOSED EXPORT CABLE
- TEMPORARY CONSTRUCTION EASEMENT LINE
- PERMANENT UTILITY EASEMENT LINE
- LIMIT OF DELINEATED WETLAND
- SILT FENCE/SILT SOCK
- MEAN HIGH WATER LINE
- DELINEATED WETLAND
- LIMIT OF DISTURBANCE
- FEMA LINE AND DESIGNATION
- LAYDOWN AREA (TO BE CLEARED AND OVERLAID WITH STONE OR TIMBER MATTING)
- HDD WORK AREA
- TEMPORARY WETLANDS DISTURBANCE (E2EM1Pd)
- 1963 SHELLFISH MAPPING LINE

USACE SHEET IMPACT SUMMARY TABLE

	ABOVE HTL	BELOW HTL	TOTAL
WETLANDS E2EM1Pd			
PERMANENT			
TEMPORARY	249 SQ.FT. 0.006 ACRES		249 SQ.FT. 0.006 ACRES
OPEN WATERS			
PERMANENT			
TEMPORARY			

no.	date	by	ckd	description
0	4/27/2022	AG/JS	JS/KH	ISSUED FOR PERMIT REVIEW AND APPROVAL

NOTES:

1. MAPPING IS BASED ON THE NJ STATE PLANE COORDINATE SYSTEM.
   HORIZONTAL DATUM = NAD-83 (2011)
   VERTICAL DATUM = NAVD-88
   NAVD-88 TO NGVD-29 CONVERSION FACTOR = -1.26'
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   PROJECT COMBINED GRID SCALE FACTOR = 0.999897978
2. PLANS HAVE BEEN PREPARED TO SUPPORT THE FILING OF U.S. ARMY CORPS OF ENGINEERS INDIVIDUAL APPLICATION FOR OCEAN WIND LLC ONSHORE IMPACTS.
3. ONLY OCEAN WIND LLC LAND RIGHTS HAVE BEEN SURVEYED. ADJOINING TAX LOT LOCATIONS ARE APPROXIMATE AND ARE SHOWN FOR REFERENCE ONLY.
4. UNDERGROUND UTILITY LINES AND EASEMENTS SHOWN ARE APPROXIMATE AND BASED ON RECORD INFORMATION AND/OR ABOVE GROUND MARKER LOCATIONS ONLY, ACCORDING TO N.J.S.A. 48:2-73 ET SEQ. ANYONE PLANNING EXCAVATIONS IN THE AREA MUST CALL 811 FOR A MARKOUT OF THE UNDERGROUND UTILITIES. DO NOT RELY ON THIS PLAN FOR UNDERGROUND UTILITY LOCATIONS.
5. TIMBER MATTING IS PROPOSED TO MINIMIZE DISTURBANCES IN REGULATED AREAS (WETLANDS/WATERS) AND TO PROVIDE ADDITIONAL PROTECTION TO UNDERGROUND GAS LINES AS REQUIRED PER SAFETY PROTOCOLS. AT THE CONTRACTOR'S DISCRETION, AND WITH THE APPROVAL OF OCEAN WIND LLC, GRAVEL OVER FILTER FABRIC MAY BE USED IN LIEU OF TIMBER MATTING FOR TEMPORARY ACCESS ROADS AND WORK PADS LOCATED IN AREAS THAT ARE NOT THREATENED/ ENDANGERED SPECIES HABITAT. GRAVEL OVER FILTER FABRIC IS NOT PERMITTED IN WETLANDS. FOR ADDITIONAL INFORMATION SEE COMPLIANCE STATEMENT INCLUDED IN APPLICATION.
6. THE STATE OF NEW JERSEY HAS DETERMINED THAT A PORTION OF THIS PROJECT LIES IN FLOOD HAZARD AREA AND RIPARIAN ZONE. CERTAIN ACTIVITIES IN FLOOD HAZARD AREAS AND RIPARIAN ZONES ARE REGULATED BY THE NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND SOME ACTIVITIES MAY BE PROHIBITED ON THIS SITE OR MAY FIRST REQUIRE A PERMIT. CONTACT THE DIVISION OF LAND RESOURCE PROTECTION AT (609) 777-0454 FOR MORE INFORMATION PRIOR TO ANY CONSTRUCTION ONSITE.
7. THESE PLANS ARE FOR DESIGN AND PERMITTING PURPOSES ONLY AND NOT INTENDED FOR CONSTRUCTION. THE ORIGINAL SIGNED DOCUMENT WITH A RAISED SEAL IS THE DOCUMENT OF RECORD.
8. WETLANDS DELINEATED BY HDR ENGINEERING, INC. SEPTEMBER 15 AND 16, 2019 AND MARCH 21, 2022 AND SURVEYED BY NJ PROFESSIONAL LAND SURVEYOR GEOD CORPORATION.

REFERENCES:

1. IMAGERY PROVIDED BY NEARMAP DATED OCTOBER 2021
2. HYDROGRAPHIC SURVEY DRAWING NO. 67710 ENTITLED "N.J.I.WW. VICINITY OF CROOK HORN CREEK.", SHEET 1 OF 1, DATED APRIL 02, 2021, PREPARED BY U.S. ARMY ENGINEER DISTRICT, PHILADELPHIA CORPS OF ENGINEERS, PHILADELPHIA, PENNSYLVANIA

Ocean Wind
An Ørsted & PSEG project

E 2 PROJECT MANAGEMENT LLC
87 HIBERNIA AVENUE
ROCKAWAY, N.J. 07866
PHONE: (973) 299-5200
FAX: (973) 299-5059
www.E2PM.com

THIS DRAWING DOES NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY; ALL CONSTRUCTION MUST BE DONE IN COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 AND ALL RULES AND REGULATIONS THERETO APPURTENANT. THIS DRAWING AND THE DESIGN FEATURES OR CONSTRUCTION DISCLOSED ARE PROPRIETARY TO E2 PROJECT MANAGEMENT LLC AND SHALL NOT BE REPRODUCED, ALTERED OR COPIED WITHOUT WRITTEN PERMISSION, SHALL NOT BE USED IN ANY MANNER DETRIMENTAL TO ITS INTEREST AND SHALL BE RETURNED UPON REQUEST.

date	detailed
4/27/22	APG
designed	checked
JMS	KLH/JMS

USACE INDIVIDUAL PERMIT PLAN

Katherine L. Hering P. E. 24GE04226900
Digitally signed by Katherine L. Hering P. E. 24GE04226900
Date: 2022.04.27 16:11:54 -04'00'

STATE OF NEW JERSEY KATHERINE L. HERING No. GE42269 LICENSED PROFESSIONAL ENGINEER

KATHERINE L. HERING, P.E. N.J. NO. 24GE04226900
LICENSED PROFESSIONAL ENGINEER

OCEAN WIND OFFSHORE WIND PROJECT
UPPER TOWNSHIP/OCEAN CITY
CAPE MAY COUNTY, NEW JERSEY

project	RDS-PP CODE
-	

drawing **OL-BLE006** – rev. **0**

sheet 6 of 23 sheets

file 1213.dwg