

no.	date	by	ckd	description
A	07/29/22	TV	RS	ISSUED FOR PERMIT

- NOTES:
- HORIZONTAL DATUM: NAD83 NEW JERSEY STATE PLANE, U.S. FOOT
  - VERTICAL DATUM CONVERSION OYSTER CREEK: NGVD29 = NAVD88 + 1.385 FT  
VERTICAL DATA CONVERSION BL ENGLAND: NGVD29 = NAVD88 + 1.263 FT
  - ALL DIMENSIONS ARE IN FEET (FT) UNLESS NOTED OTHERWISE.
  - ALL BATHYMETRIC CONTOURS ARE DEPICTED IN RELATION TO MEAN LOWER LOW WATER (MLLW).
  - SEE HDD SERIES SHEETS FOR DETAILED PLAN AND PROFILE OF CABLE ROUTE.
  - FOR DETAILS ON WETLAND AND WETLAND BUFFER IMPACTS PLEASE SEE ONSHORE PLAN SET.
  - 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.
  - AREAS OF IMPACTS TO REGULATED FEATURES ARE QUANTIFIED ON E2PM ONSHORE PLAN SHEETS OL-OC002 THROUGH OL-OC010.
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**FOR PERMITTING APPROVAL**

**Ocean Wind**  
An Ørsted & PSEG project



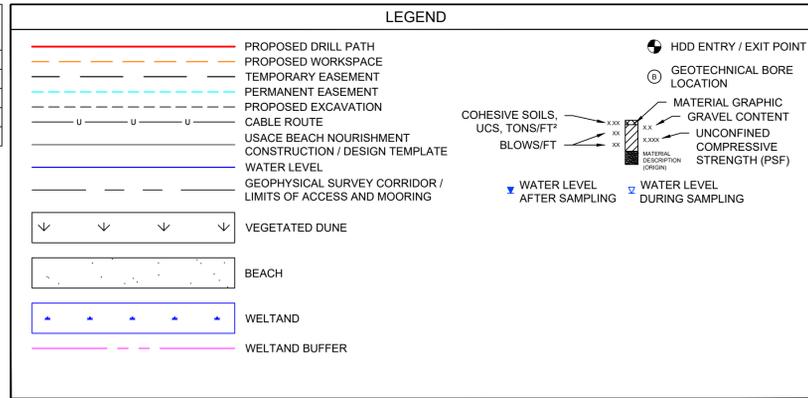
HDR ENGINEERING, INC.  
1 INTERNATIONAL BOULEVARD, SUITE 1000  
MAHWAH, NJ 07495

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
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  - BASE FILE(S) PROVIDED BY ØRSTED.
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- USACE BEACH NOURISHMENT CONSTRUCTION/DESIGN TEMPLATE SHOWN PER US ARMY CORPS OF ENGINEERS PHILADELPHIA DISTRICT DRAWING C-305 TYPICAL SECTION - 35TH STREET OCEAN CITY. ISSUED/SUBMITTAL DATE: 100% RTA - 13 JUNE 2019.
- CONCRETE MATTRESSES WILL BE USED TO STABILIZE THE PIPE WITHIN THE HDD EXIT PIT UPON INSTALLATION. MATTRESSES WILL BE LEFT IN PLACE AND HDD EXIT PITS WILL BE ALLOWED TO BACKFILL THROUGH NATURAL PROCESSES. OCEAN WIND WILL NOTIFY USACE/USCG WITH LOCATIONS OF HDD EXIT PITS FOLLOWING FINAL DESIGN AND CONSTRUCTION.

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



NJ CERTIFICATE OF AUTHORIZATION 24GA28010700

CAPE MAY COUNTY, NEW JERSEY

**32" OC3\_A CROSSING**  
BL ENGLAND / 35TH STREET CROSSING  
HORIZONTAL DIRECTIONAL DRILL  
PLAN AND PROFILE

project: RDS-PP CODE

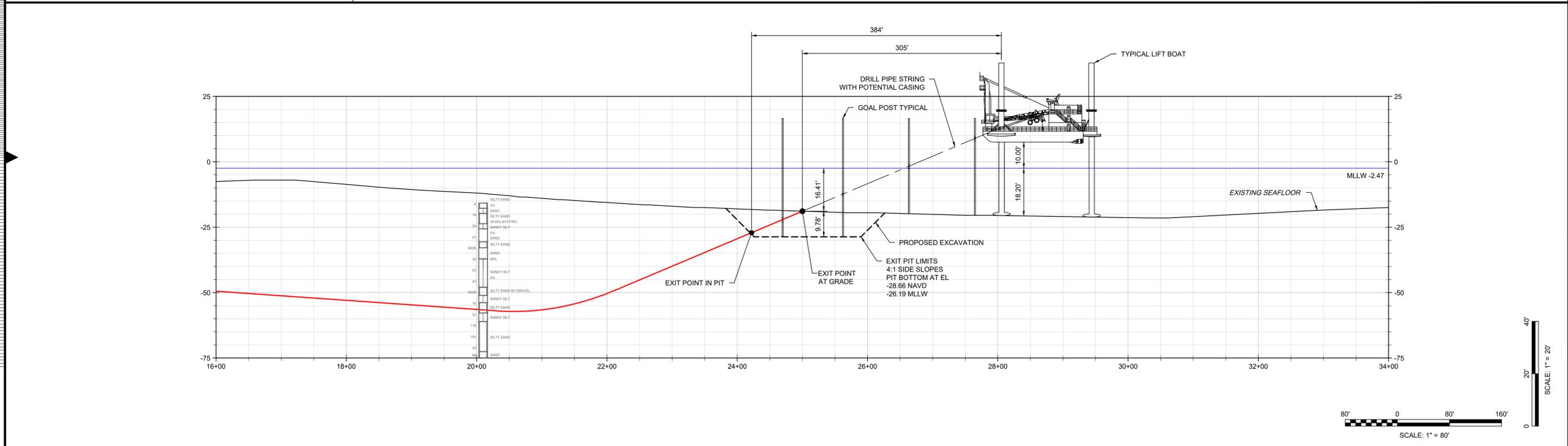
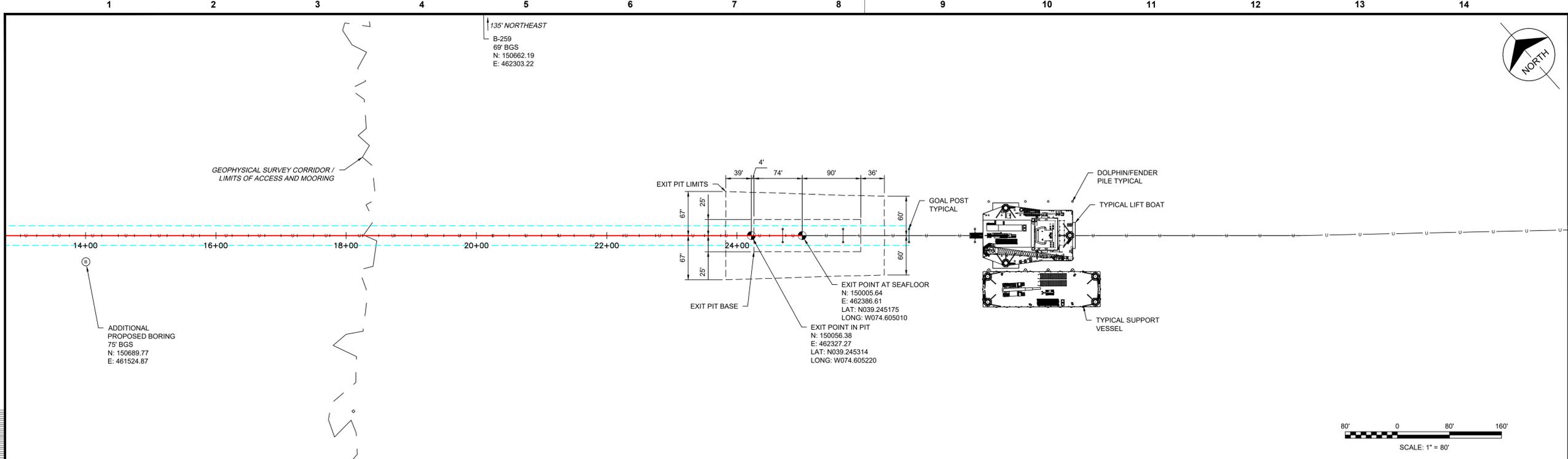
drawing: **HDD-OF-BLE-01T-5-001** rev. **A**

sheet: of sheets

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

Reilly J. Schoo  
NJ PROFESSIONAL ENGINEER  
No. 24GE05344300

date	designed	detailed	checked
07/29/22	R. SCHOO	T. VONBERGE	D. BEARDEN



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**LEGEND**

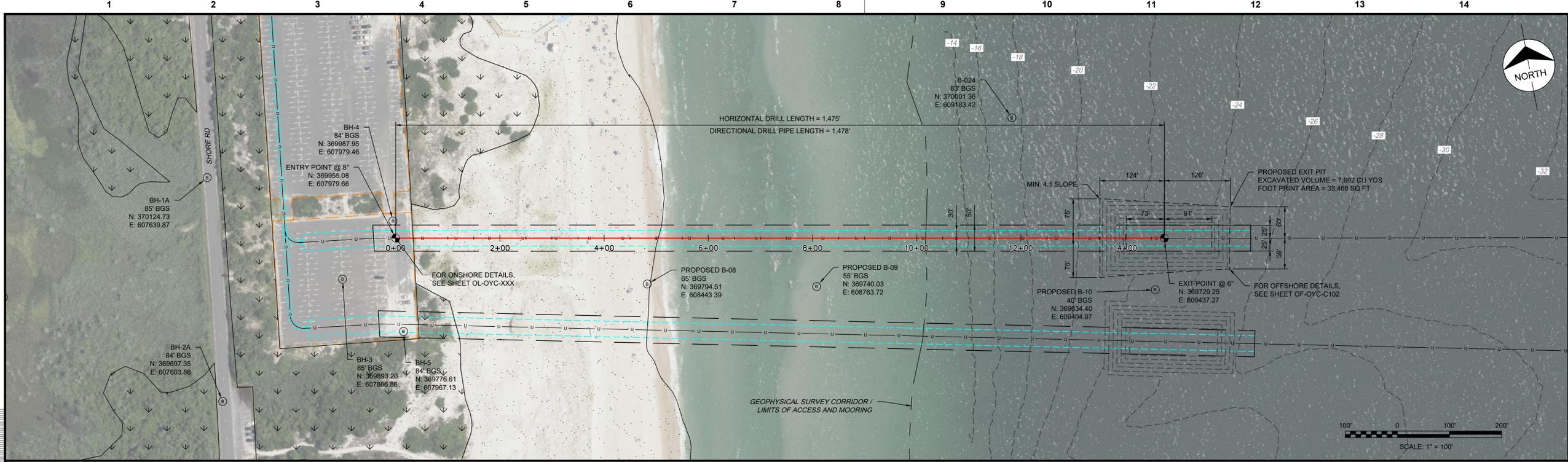
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- PROPOSED WORKSPACE
- TEMPORARY EASEMENT
- PERMANENT EASEMENT
- PROPOSED EXCAVATION
- CABLE ROUTE
- USACE BEACH NOURISHMENT CONSTRUCTION / DESIGN TEMPLATE
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- BEACH
- WELTAND
- WELTAND BUFFER
- HDD ENTRY / EXIT POINT
- GEOTECHNICAL BORE LOCATION
- MATERIAL GRAPHIC GRAVEL CONTENT
- UNCONFINED COMPRESSIVE STRENGTH (PSF)
- MATERIAL DESCRIPTION (GRADING)
- COHESIVE SOILS, UCS, TONS/FT<sup>2</sup> BLOWS/FT
- WATER LEVEL AFTER SAMPLING
- WATER LEVEL DURING SAMPLING

NJ CERTIFICATE OF AUTHORIZATION 24GA28010700

REILLY J. SCHOO  
NJ PROFESSIONAL ENGINEER  
No. 24GE05344300

date	07/29/22	detailed	T. VONBERGE
designed	R. SCHOO	checked	D. BEARDEN

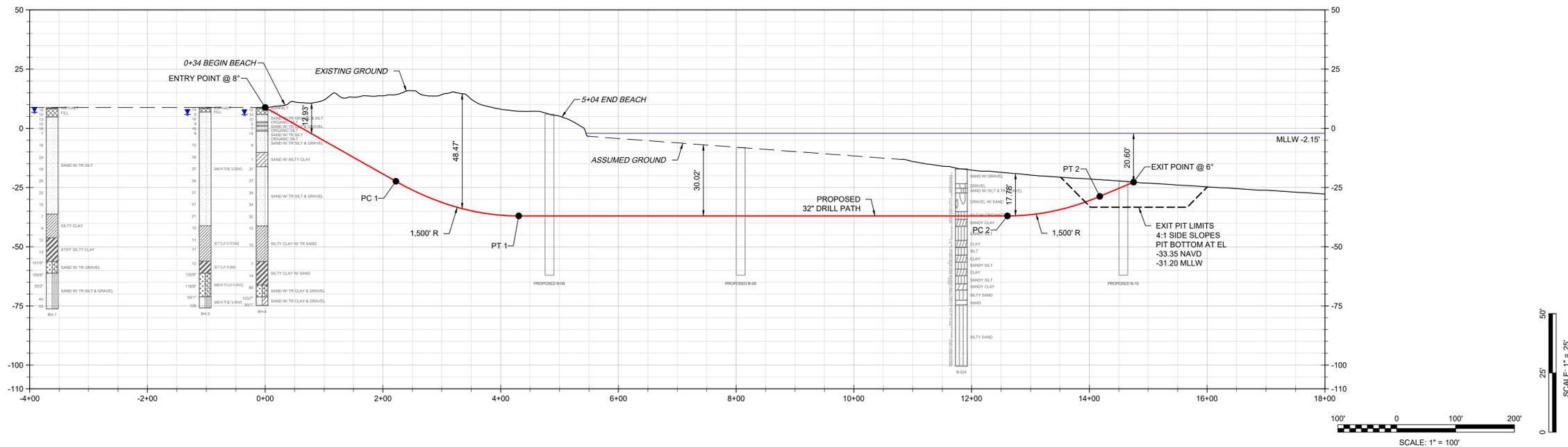
CAPE MAY COUNTY, NEW JERSEY	
32" OC3_A CROSSING	
BL ENGLAND / 35TH STREET CROSSING OFFSHORE WORKSPACE PLAN AND PROFILE	
project	RDS-PP CODE
drawing	HDD-OF-BLE-01T-4-002 - rev. A
sheet	of sheets
file	HDD-OF-BLE-01T-4-002



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**FOR PERMITTING APPROVAL**



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		

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

**LEGEND**

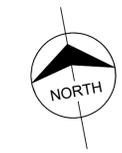
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NJ CERTIFICATE OF AUTHORIZATION 24GA28010700

REILLY J. SCHOO  
NJ PROFESSIONAL ENGINEER  
No. 24GE05344300

date	detailed
07/29/22	T. VONBERGE
designed	checked
R. SCHOO	D. BEARDEN

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
sheet	of sheets
file	HDD-OF-OYC-04T-5-001



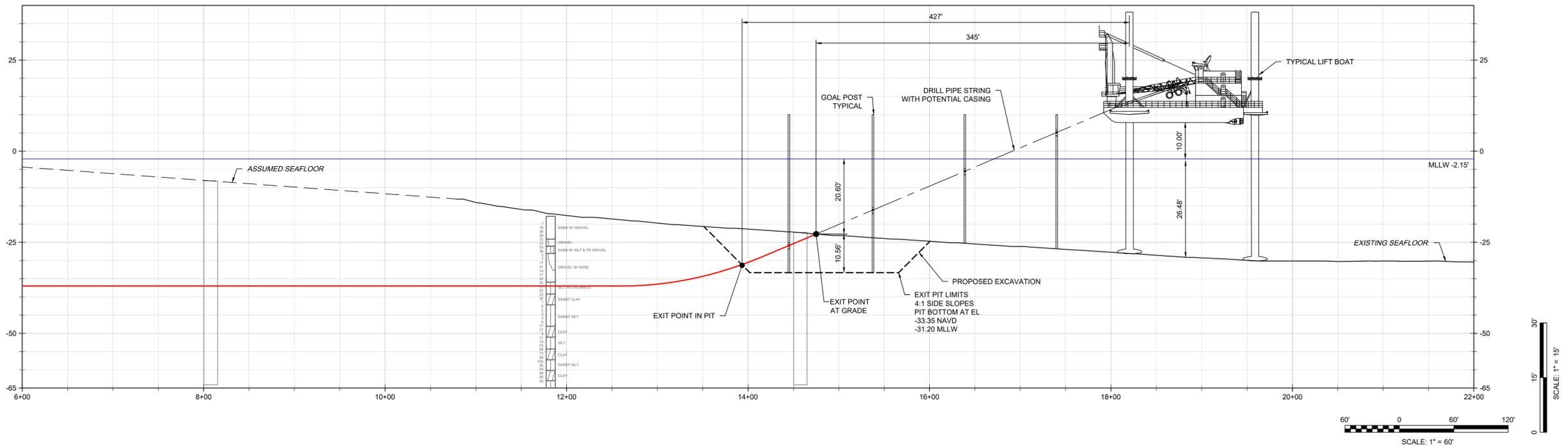
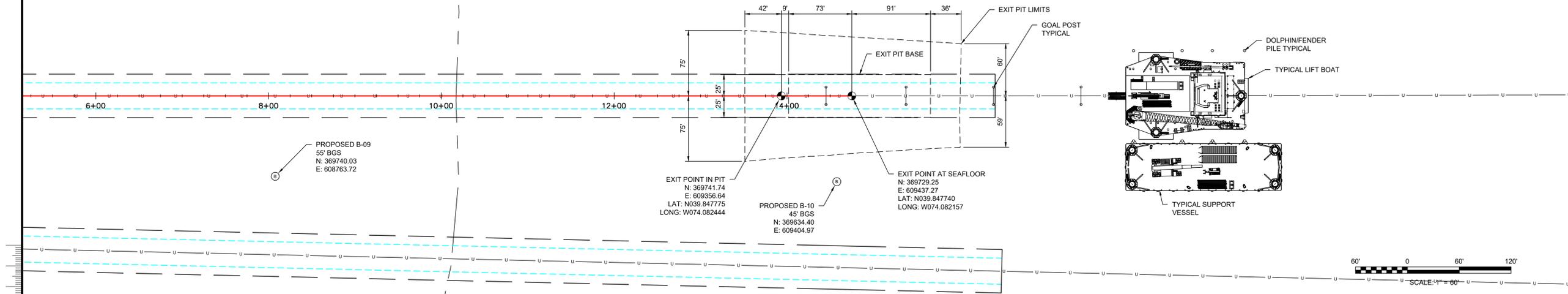
B-024  
83' BGS  
N: 370001.36  
E: 609183.42

PROPOSED B-09  
55' BGS  
N: 369740.03  
E: 608763.72

EXIT POINT IN PIT  
N: 369741.74  
E: 609356.64  
LAT: N039.847775  
LONG: W074.082444

PROPOSED B-10  
45' BGS  
N: 369634.40  
E: 609404.97

EXIT POINT AT SEAFLOOR  
N: 369729.25  
E: 609437.27  
LAT: N039.847740  
LONG: W074.082157



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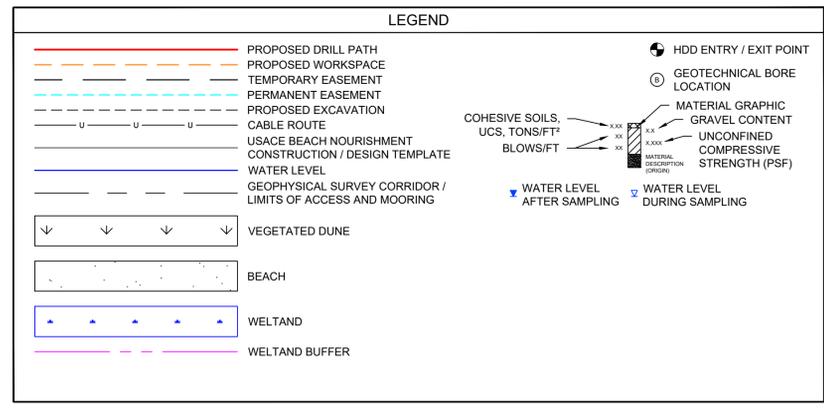
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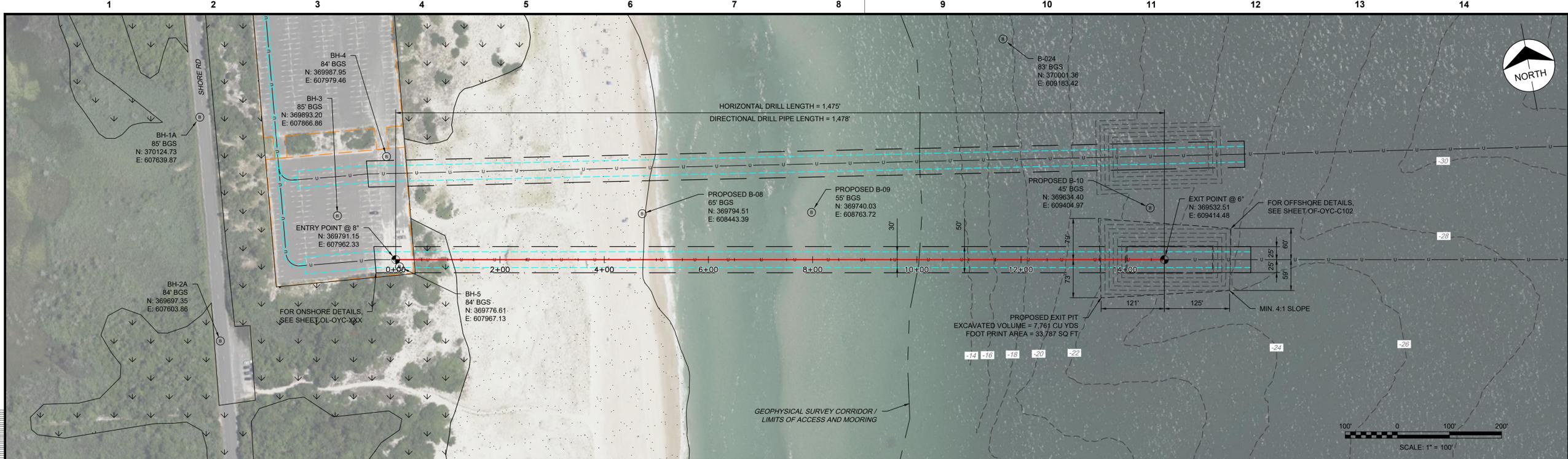


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IBSP EAST CROSSING (NORTH)  
OFFSHORE WORKSPACE  
PLAN AND PROFILE

project	RDS-PP CODE
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sheet	of sheets
file	HDD-OF-OYC-04T-5-002



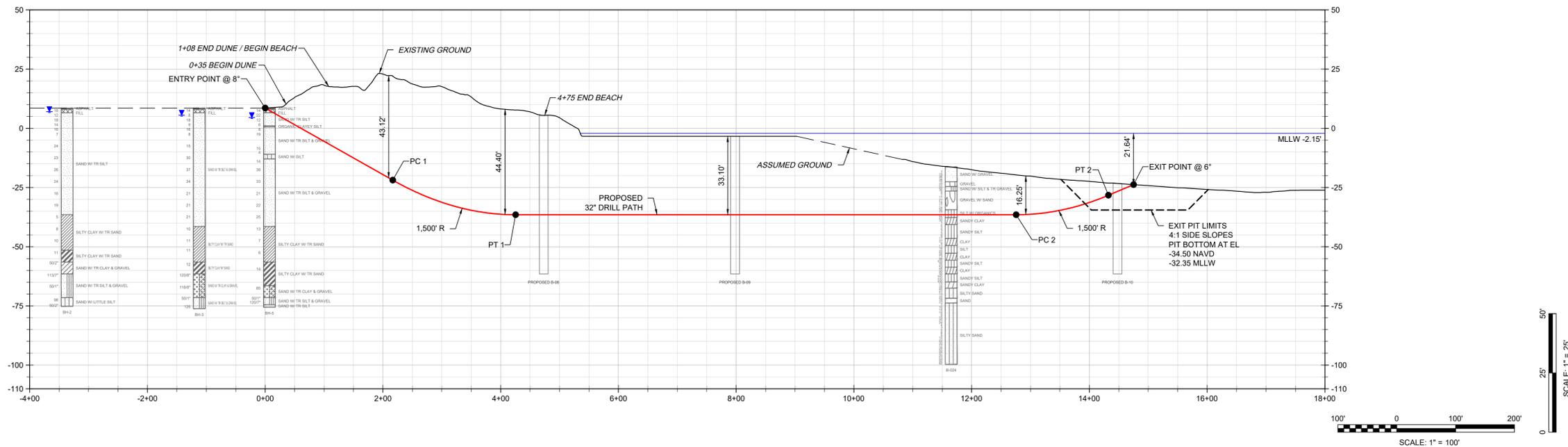
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  - AREAS OF IMPACTS TO REGULATED FEATURES ARE QUANTIFIED ON E2PM ONSHORE PLAN SHEETS OL-OC002 THROUGH OL-OC010.
  - THESE DRAWINGS SHOW THE APPROXIMATE LOCATION OF CABLE ROUTE. FINAL CABLE ROUTE TO BE PROVIDED BY THE CONTRACTOR.

**FOR PERMITTING APPROVAL**

**Ocean Wind**  
An Ørsted & PSEG project

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



DIRECTIONAL DRILL DATA		
DESCRIPTION	STATION (ft)	ELEVATION (ft)
ENTRY POINT @ 8°	0+00.00	8.54
PC 1 (1,500' R)	2+16.61	-21.90
PT 1	4+25.37	-36.50
PC 2 (1,500' R)	12+75.51	-36.50
PT 2	14+32.30	-28.28
EXIT POINT @ 6°	14+75.00	-23.79
HORIZONTAL DISTANCE (ft) = 1,475.00		
DIRECTIONAL DRILL PIPE LENGTH (ft) = 1,478.33		

- GENERAL NOTES**
- NORTHINGS AND EASTINGS ARE IN US SURVEY FEET REFERENCED TO NAD83 (2011), NEW JERSEY STATE PLANE, US FOOT.
  - ALL ELEVATIONS ARE REFERENCE TO THE MEAN LOWER LOW (MLLW) LEVEL.
  - AERIAL IMAGERY PROVIDED BY GOOGLE EARTH.
  - TOPOGRAPHIC SURVEY WAS PROVIDED BY ØRSTED.
  - BASE FILE(S) PROVIDED BY ØRSTED.
  - 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.
  - DRILL PATH STATIONING IS IN FEET BY HORIZONTAL MEASUREMENT AND IS REFERENCED TO THE CONTROL POSITION FOR THE CROSSING.
  - DEPICTED WATER LEVEL INFORMATION SOURCED FROM NOAA VDATUM.
  - 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.
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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
- GEOPHYSICAL SURVEY CORRIDOR / LIMITS OF ACCESS AND MOORING
- VEGETATED DUNE
- BEACH
- WETLAND
- WETLAND BUFFER
- HDD ENTRY / EXIT POINT
- GEOTECHNICAL BORE LOCATION
- MATERIAL GRAPHIC
- GRAVEL CONTENT
- UNCONFINED COMPRESSIVE STRENGTH (PSF)
- WATER LEVEL AFTER SAMPLING
- WATER LEVEL DURING SAMPLING
- COHESIVE SOILS, UCS, TONS/FT<sup>2</sup> BLOWS/FT

NJ CERTIFICATE OF AUTHORIZATION 24GA28010700

OCEAN COUNTY, NEW JERSEY

**32" OC2\_C SHORE APPROACH**  
IBSP EAST CROSSING (SOUTH)  
HORIZONTAL DIRECTIONAL DRILL  
PLAN AND PROFILE

project: RDS-PP CODE

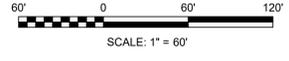
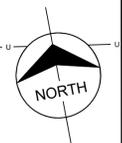
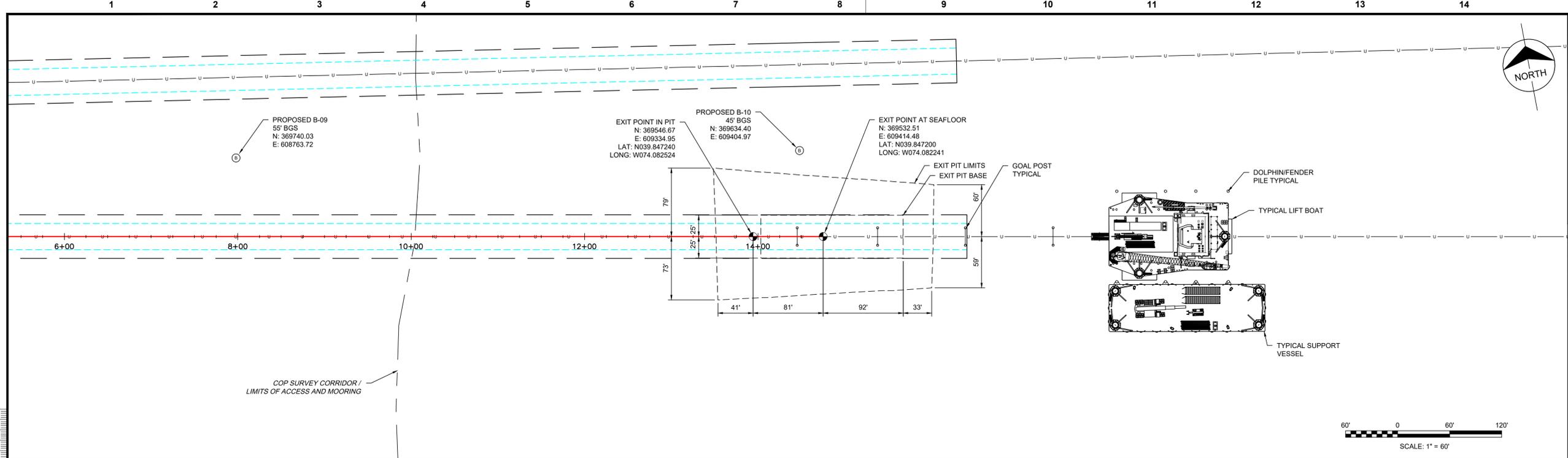
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sheet: of sheets

file: HDD-OF-OYC-05T-5-001

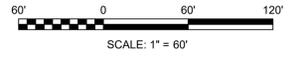
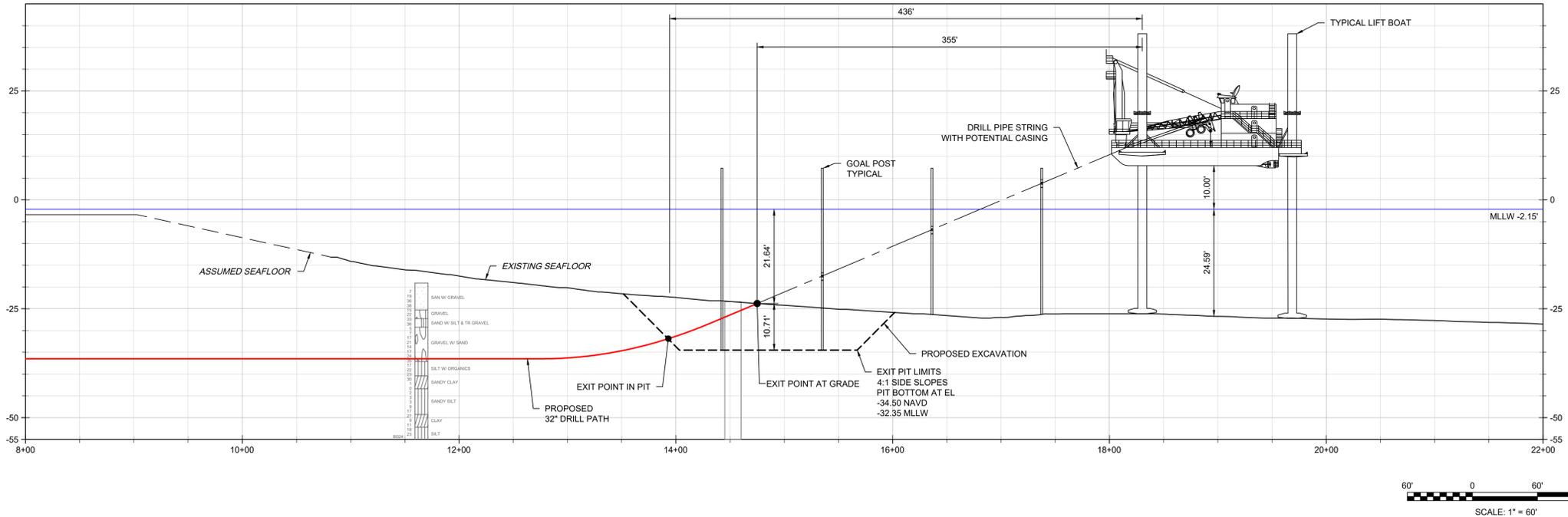
REILLY J. SCHOO  
NJ PROFESSIONAL ENGINEER  
No. 24GE05344300

date	designed	checked	detailed
07/29/22	R. SCHOO	D. BEARDEN	T. VONBERGE



no.	date	by	ckd	description
A	07/29/22	TV	RS	ISSUED FOR PERMIT

- NOTES:
- HORIZONTAL DATUM: NAD83 NEW JERSEY STATE PLANE, U.S. FOOT
  - VERTICAL DATUM CONVERSION OYSTER CREEK: NGVD29 = NAVD88 + 1.385 FT  
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**FOR PERMITTING APPROVAL**

**Ocean Wind**  
An Ørsted & PSEG project

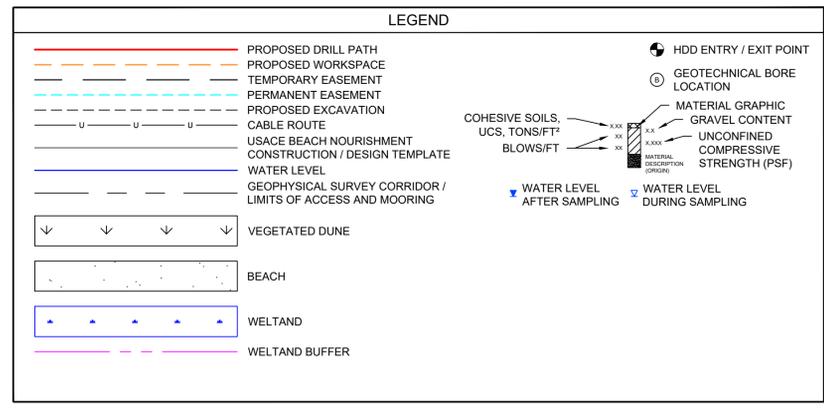


HDR ENGINEERING, INC.  
1 INTERNATIONAL BOULEVARD, SUITE 1000  
MAHWAH, NJ 07495

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NJ CERTIFICATE OF AUTHORIZATION 24GA28010700

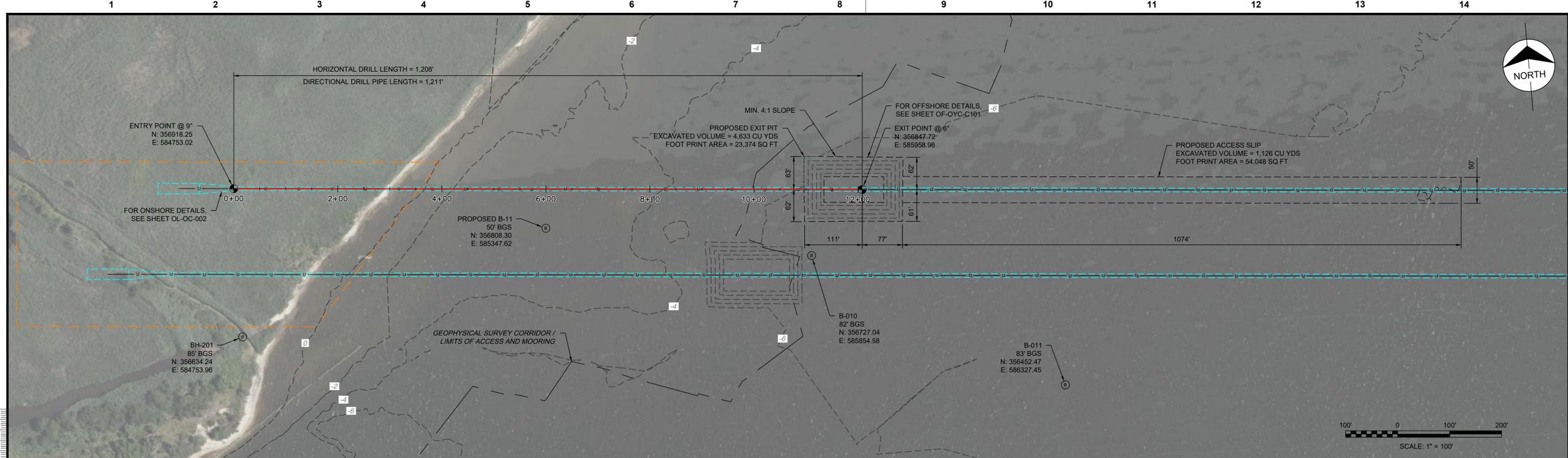


REILLY J. SCHOO  
NJ PROFESSIONAL ENGINEER  
No. 24GE05344300

date	07/29/22	detailed	T. VONBERGE
designed	R. SCHOO	checked	D. BEARDEN

OCEAN COUNTY, NEW JERSEY  
**32" OC2\_C SHORE APPROACH**  
IBSP EAST CROSSING (SOUTH)  
OFFSHORE WORKSPACE  
PLAN AND PROFILE

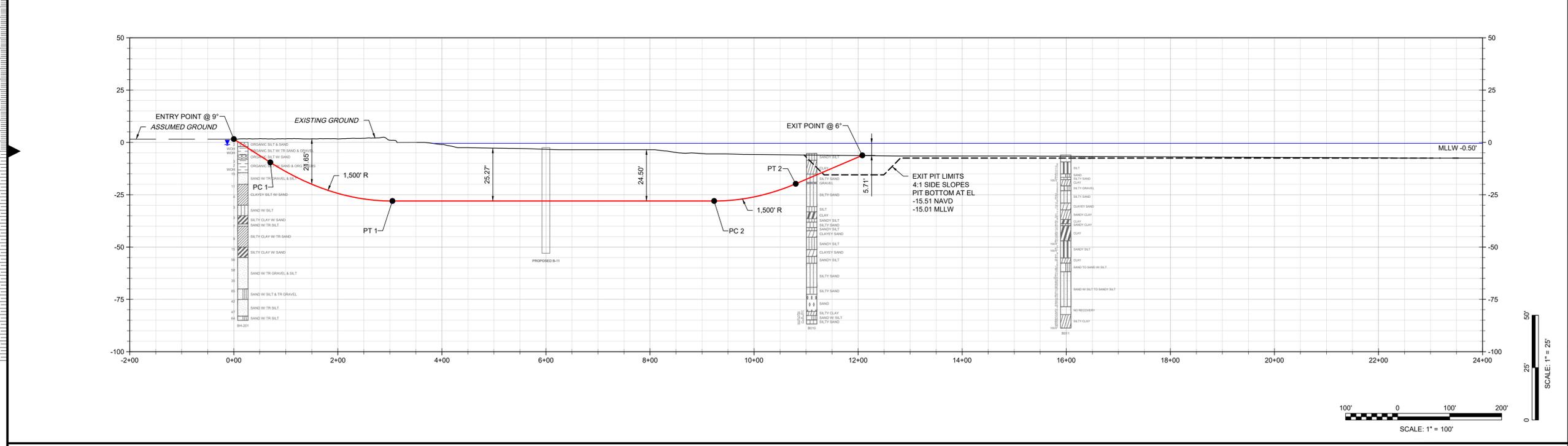
project	RDS-PP CODE
drawing	HDD-OF-OYC-05T-4-001 - rev. <b>A</b>
sheet	of sheets
file	HDD-OF-OYC-05T-4-001



no.	date	by	ckd	description
A	07/29/22	TV	RS	ISSUED FOR PERMIT

- NOTES:
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**FOR PERMITTING APPROVAL**



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		

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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

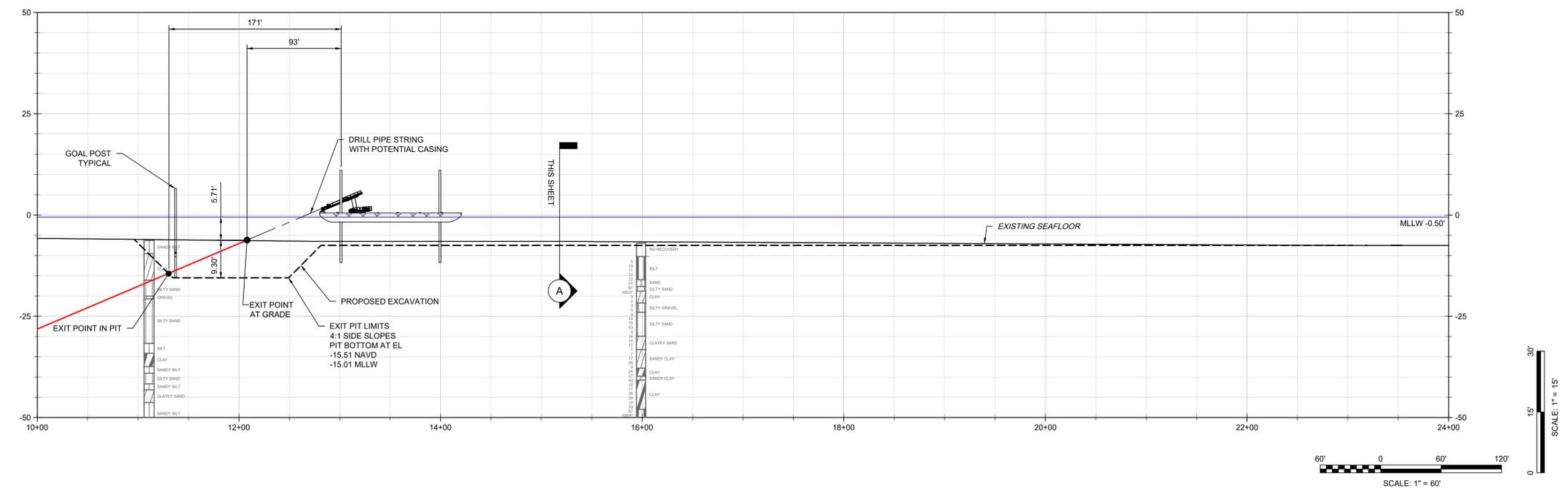
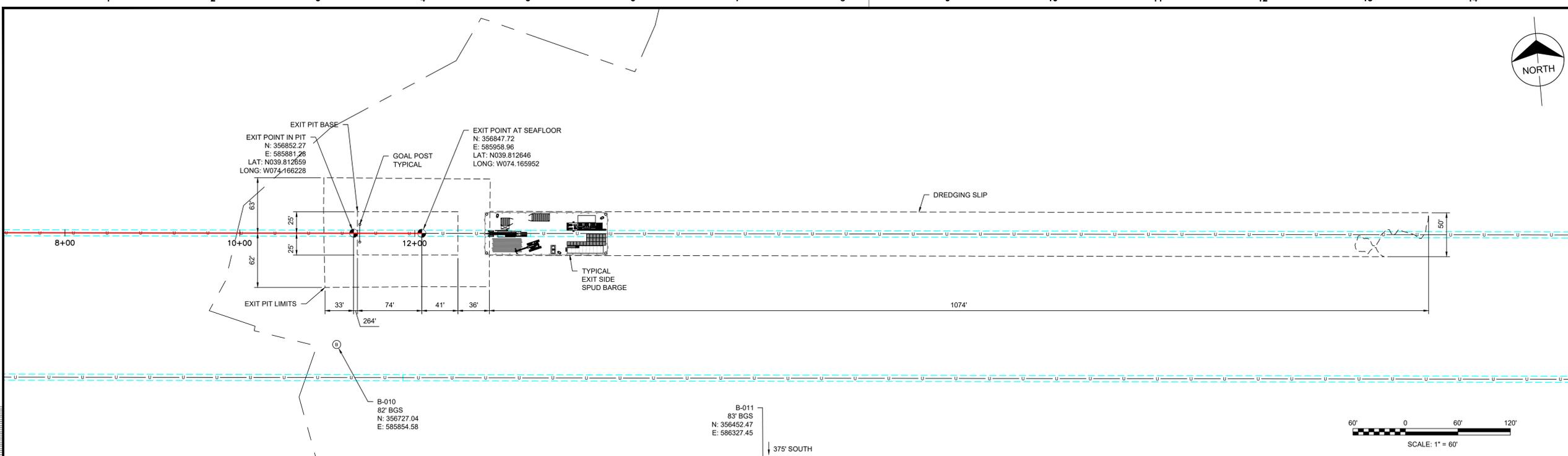
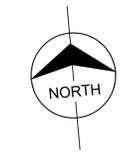
- PROPOSED DRILL PATH
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- GEOTECHNICAL BORE LOCATION
- MATERIAL GRAPHIC
- GRAVEL CONTENT
- UNCONFINED COMPRESSIVE STRENGTH (PSF)
- COHESIVE SOILS, UCS, TONS/FT<sup>3</sup> BLOWS/FT
- MATERIAL DESCRIPTION (ORIGINAL)
- WATER LEVEL AFTER SAMPLING
- WATER LEVEL DURING SAMPLING

date	detailed
07/29/22	T. VONBERGE
designed	checked
R. SCHOO	D. BEARDEN

NJ CERTIFICATE OF AUTHORIZATION 24GA28010700

REILLY J. SCHOO  
NJ PROFESSIONAL ENGINEER  
No. 24GE05344300

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



no.	date	by	ckd	description
A	07/29/22	TV	RS	ISSUED FOR PERMIT

- NOTES:
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  - VERTICAL DATUM CONVERSION OYSTER CREEK: NGVD29 = NAVD88 + 1.385 FT  
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**FOR PERMITTING APPROVAL**

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

date	07/29/22	detailed	T. VONBERGE
designed	R. SCHOO	checked	D. BEARDEN

NJ CERTIFICATE OF AUTHORIZATION 24GA28010700

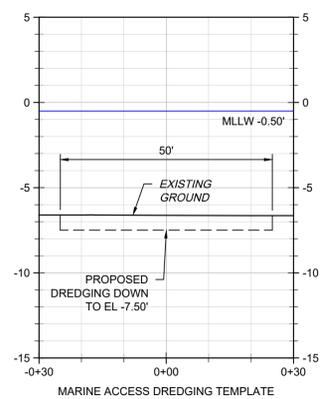


REILLY J. SCHOO  
NJ PROFESSIONAL ENGINEER  
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OCEAN COUNTY, NEW JERSEY	
32" OC1_A SHORE APPROACH HOLTEC FARM CROSSING (NORTH) OFFSHORE WORKSPACE PLAN AND PROFILE	
project	RDS-PP CODE
drawing	HDD-OF-OYC-06T-4-001 rev. A
sheet	of sheets
file	HDD-OF-OYC-06T-4-001

**GENERAL NOTES**

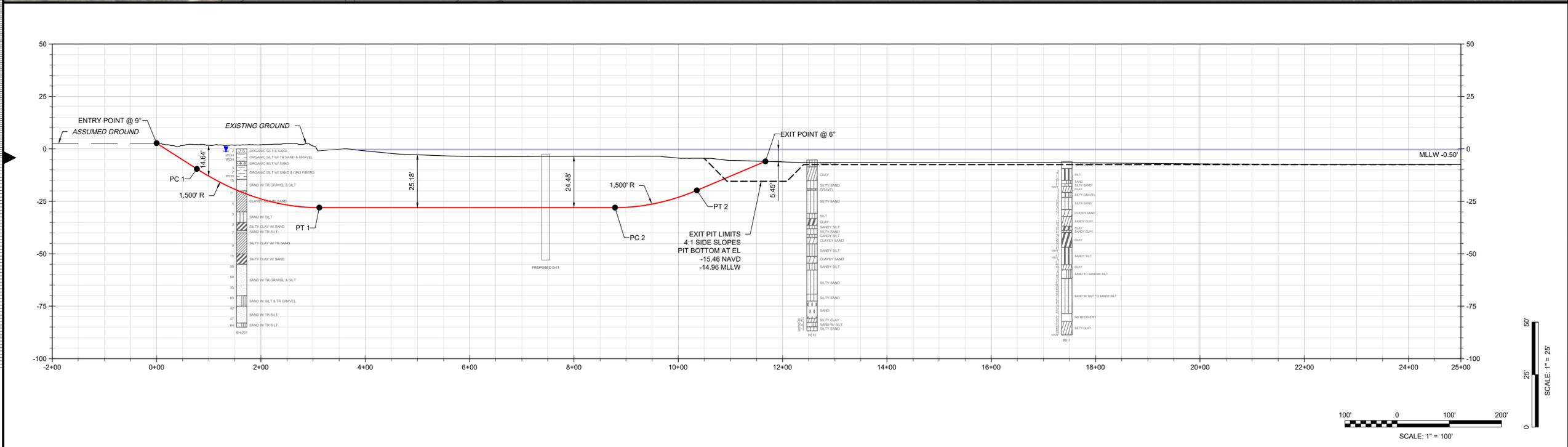
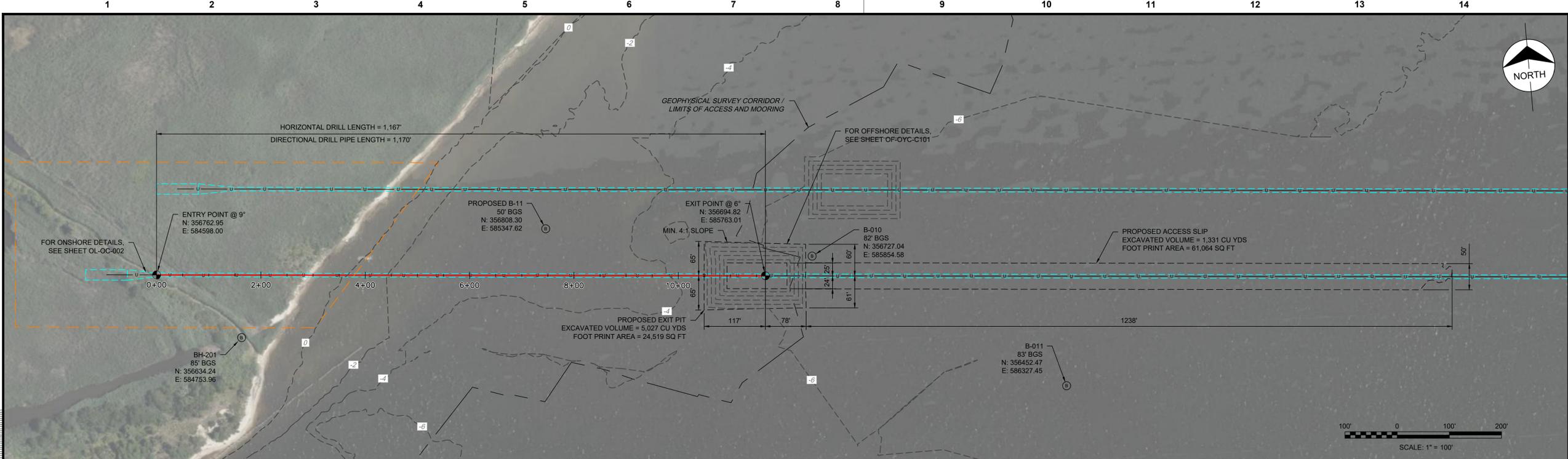
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**LEGEND**

	PROPOSED DRILL PATH		HDD ENTRY / EXIT POINT
	PROPOSED WORKSPACE		GEOTECHNICAL BORE LOCATION
	TEMPORARY EASEMENT		MATERIAL GRAPHIC
	PERMANENT EASEMENT		GRAVEL CONTENT
	PROPOSED EXCAVATION		UNCONFINED COMPRESSIVE STRENGTH (PSF)
	USACE BEACH NOURISHMENT CONSTRUCTION / DESIGN TEMPLATE		MATERIAL DESCRIPTION (CONCRETE)
	CABLE ROUTE		WATER LEVEL AFTER SAMPLING
	WATER LEVEL		WATER LEVEL DURING SAMPLING
	GEOPHYSICAL SURVEY CORRIDOR / LIMITS OF ACCESS AND MOORING		VEGETATED DUNE
	VEGETATED DUNE		BEACH
	BEACH		WELTAND
	WELTAND		WELTAND BUFFER

A SECTION NTS



no.	date	by	ckd	description
A	07/29/22	TV	RS	ISSUED FOR PERMIT

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**FOR PERMITTING APPROVAL**

**Ocean Wind**  
An Ørsted & PSEG project

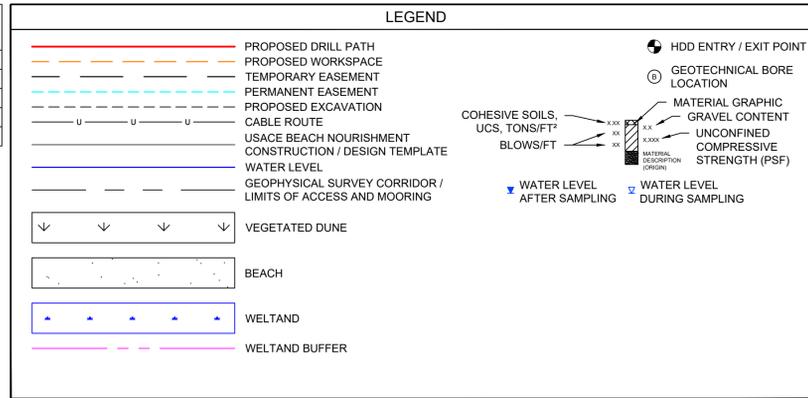
**HDR**  
HDR ENGINEERING, INC.  
1 INTERNATIONAL BOULEVARD, SUITE 1000  
MAHWAH, NJ 07495

DIRECTIONAL DRILL DATA		
DESCRIPTION	STATION (ft)	ELEVATION (ft)
ENTRY POINT @ 9°	0+00.00	2.71
PC 1 (1,500' R)	0+77.30	-9.53
PT 1	3+11.95	-28.00
PC 2 (1,500' R)	8+71.20	-28.00
PT 2	10+35.43	-19.78
EXIT POINT @ 6°	11+67.00	-5.95
HORIZONTAL DISTANCE (ft) = 1,167.00		
DIRECTIONAL DRILL PIPE LENGTH (ft) = 1,169.94		

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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



NJ CERTIFICATE OF AUTHORIZATION 24GA28010700

**Reilly School**

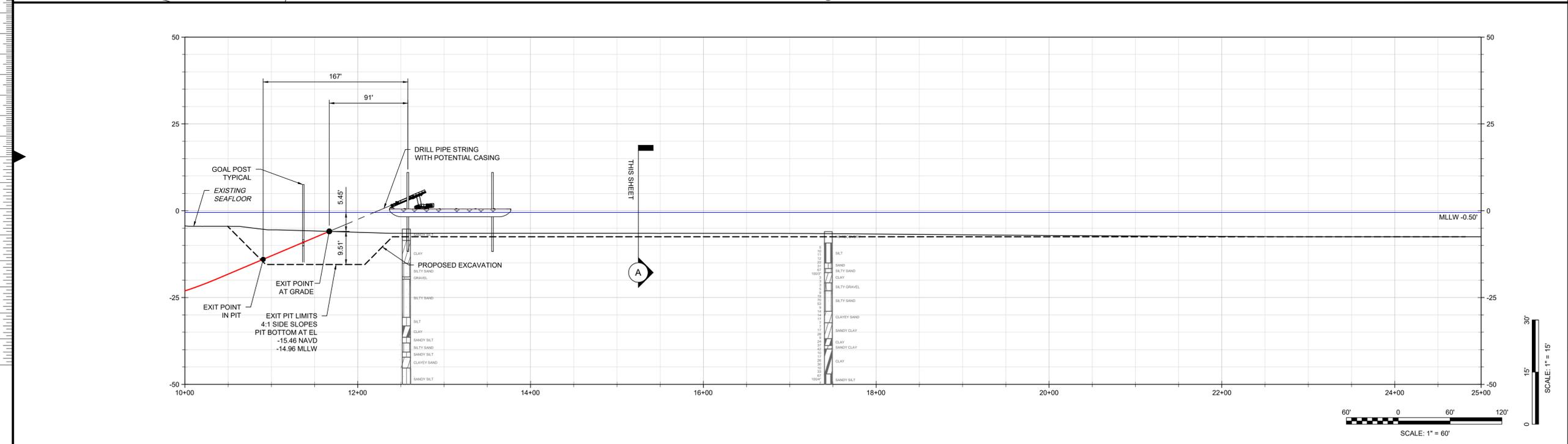
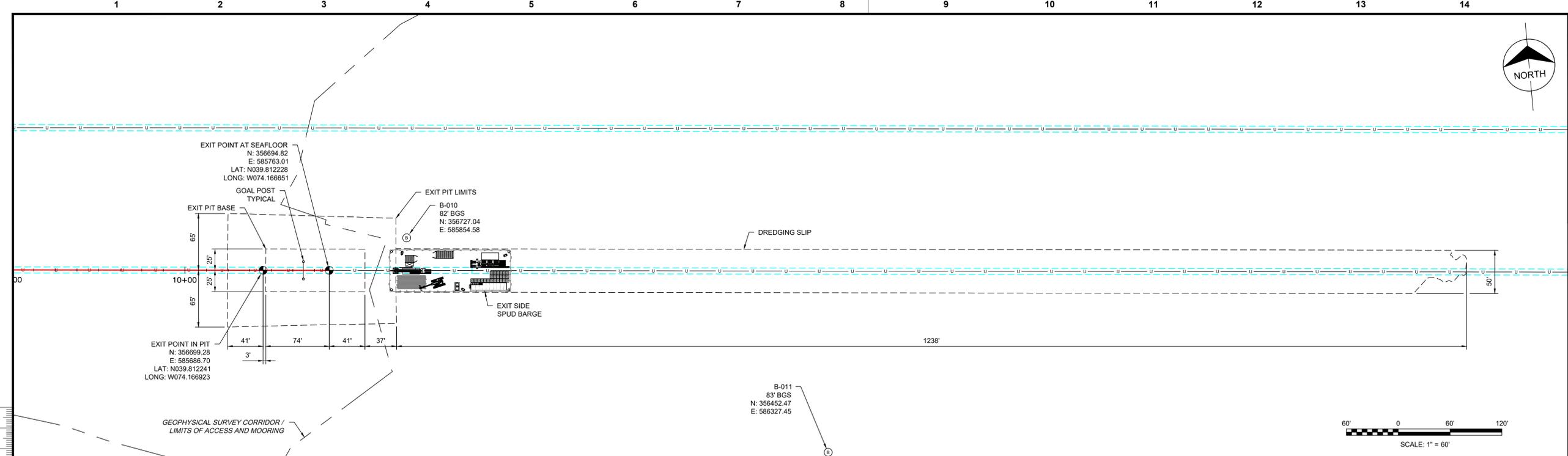
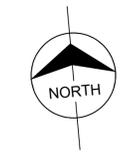
REILLY J. SCHOO  
NJ PROFESSIONAL ENGINEER  
No. 24GE05344300

date	designed	detailed	checked
07/29/22	R. SCHOO	T. VONBERGE	D. BEARDEN

OCEAN COUNTY, NEW JERSEY

**32" OC2\_A SHORE APPROACH**  
HOLTEC FARM CROSSING (SOUTH)  
HORIZONTAL DIRECTIONAL DRILL  
PLAN AND PROFILE

project	RDS-PP CODE
drawing	HDD-OF-OYC-07T-5-001
sheet	of sheets
file	HDD-OF-OYC-07T-5-001



no.	date	by	ckd	description
A	07/29/22	TV	RS	ISSUED FOR PERMIT

- NOTES:
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  - VERTICAL DATUM CONVERSION OYSTER CREEK: NGVD29 = NAVD88 + 1.385 FT  
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1 INTERNATIONAL BOULEVARD, SUITE 1000  
MAHWAH, NJ 07495

date	07/29/22	detailed	T. VONBERGE
designed	R. SCHOO	checked	D. BEARDEN

NJ CERTIFICATE OF AUTHORIZATION 24GA28010700

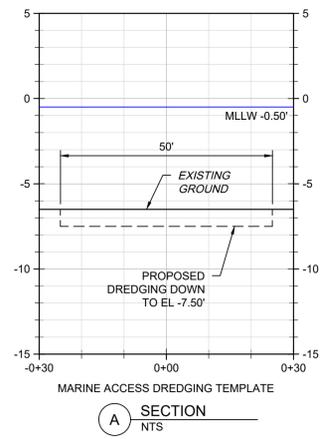
OCEAN COUNTY, NEW JERSEY  
**32" OC2\_A SHORE APPROACH**  
HOLTEC FARM CROSSING (SOUTH)  
OFFSHORE WORKSPACE  
PLAN AND PROFILE

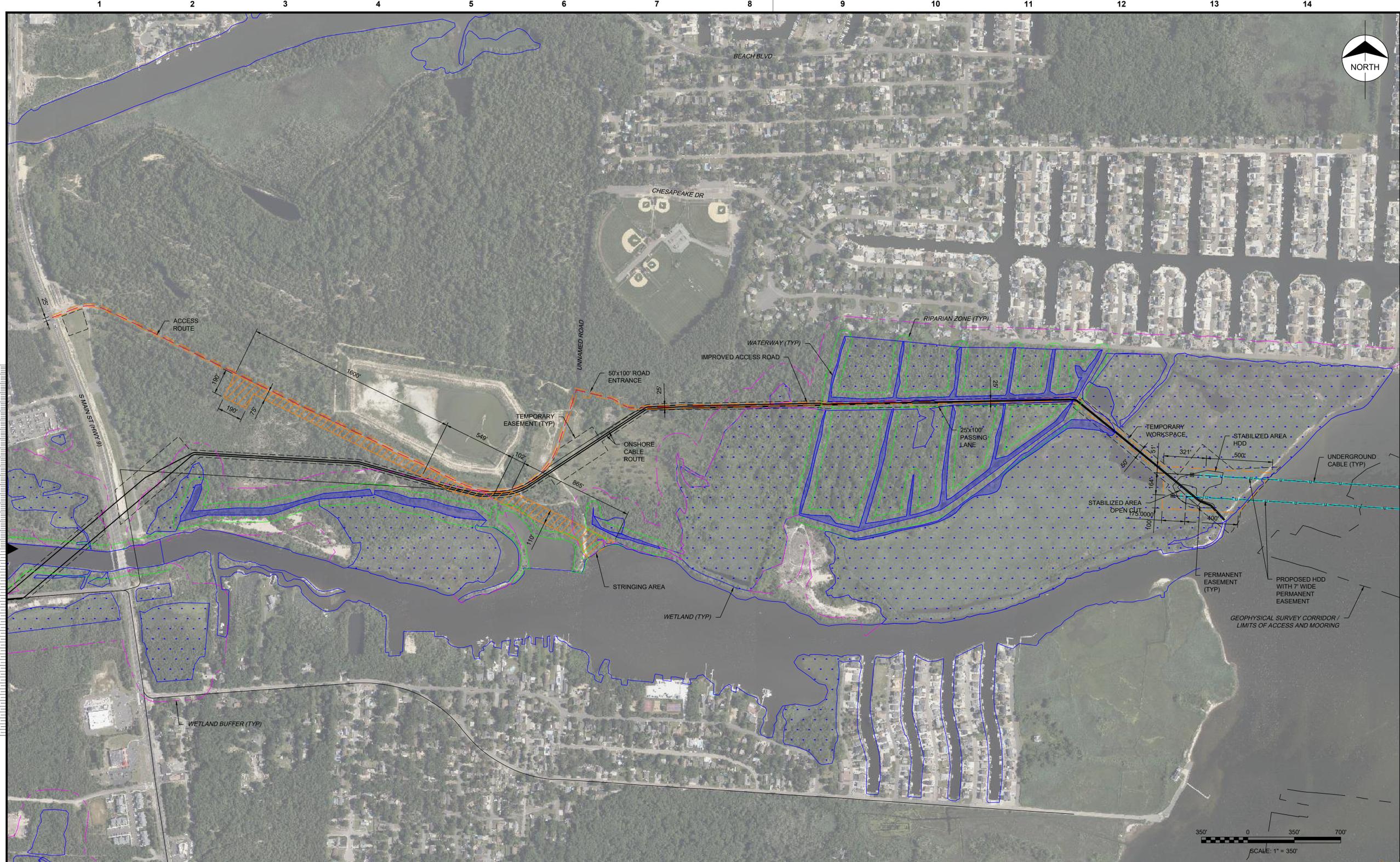
project: RDS-PP CODE  
drawing: **HDD-OF-OYC-07T-4-001** rev. **A**  
sheet: of sheets  
file: HDD-OF-OYC-07T-4-001

**LEGEND**

	PROPOSED DRILL PATH		HDD ENTRY / EXIT POINT
	PROPOSED WORKSPACE		GEOTECHNICAL BORE LOCATION
	TEMPORARY EASEMENT		MATERIAL GRAPHIC
	PERMANENT EASEMENT		GRAVEL CONTENT
	PROPOSED EXCAVATION		UNCONFINED COMPRESSIVE STRENGTH (PSF)
	CABLE ROUTE		WATER LEVEL AFTER SAMPLING
	USACE BEACH NOURISHMENT CONSTRUCTION / DESIGN TEMPLATE		WATER LEVEL DURING SAMPLING
	GEOPHYSICAL SURVEY CORRIDOR / LIMITS OF ACCESS AND MOORING		VEGETATED DUNE
	BEACH		WELTAND
	WELTAND BUFFER		WELTAND BUFFER

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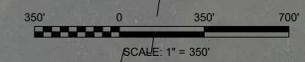
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date	07/29/22	detailed	T. VONBERGE
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Reilly J. Schoo  
NJ PROFESSIONAL ENGINEER  
No. 24GE05344300

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
sheet	of sheets
file	HDD-OL-OYC-00T-4-003

Scale For Microfilming  
Millimeters  
Inches