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OL-OC001 OL-OC002	Key Map Export Cable Route	 PLANE, U.S. FOOT 2. VERTICAL DATA CONVERSION OYSTER CREEK: NGVD29 = NAVD88 + 1.335 FT 	
OL-OC003 OL-OC004 OL-OC005	Export Cable Route Export Cable Route Export Cable Route Export Cable Route	VERTICAL DATA CONVERSION BL ENGLAND: NGVD29 = NAVD88 + 1.263 FT	С
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OL-OC022 OL-BLE01	References Key Map	LOCATION OF PROPOSED IMPROVEMENTS WILL BE COORDINATED WITH ENGINEER UPON AWARD OF CONTRACT.	
OL-BLE01 OL-BLE02 OL-BLE03 OL-BLE04	Export Cable Route Export Cable Route Export Cable Route Export Cable Route	8. AREAS OF IMPACTS TO REGULATED AREAS WILL BE PROVIDED UPON FINAL DESIGN OF THE	_
OL-BLE05 OL-BLE06 OL-BLE07	Export Cable Route Export Cable Route (Crook Horn Creek HDD) Export Cable Route	CABLE ROUTES AND RELATED IMPROVEMENTS.9. THESE DRAWINGS SHOW THE APPROXIMATE	E
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		Ocean Wind 1	
TEMPORARY/PERMANENT IMPACTS Dredging Anchoring/Moorir	ng Fill within WOTUS TOTAL	An Ørsted & PSEG project	G
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32,520 0 0.000 0.025 0.00 0 0 0.000 0.094 0.00			
OYSTER CREEK FEDERAL CHANNEL		HDR ENGINEERING, INC. 50 TICE BOULEVARD, SUITE 210 WOODCLIFF LAKE, NJ 07677	н
TEMPORARY/PERMANENT IMPACTS Dredging Anchoring/Mo	oring Fill within WOTUS TOTAL	date detailed 4/14/2023 W. LIN	
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	NJ CERTIFICATE OF AUTHORIZATION 24GA28010700	KEY PLAN	
	OF NEW JE	OCEAN WIND 1 OFFSHORE WIND PROJECT	
	D GE57803	OFFSHORE CABLE ROUTES	J
	SONAL ENTRY	project RDS-PP CODE 112083	
		drawing G001 – rev.	
0 15000' SCALE IN F	30000'JOSEPH P. DENNISBEETNJ PROFESSIONAL ENGINEERNo. 24GE05780300	sheet 1 of 13 sheets file G001.dwg	

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 DATED 07/20/2022 (REVISION 2 - 01/05 2. THE CONTRACTOR SHALL DESIGNAT CONSTRUCTION SITE SAFETY DURIN PURSUANT TO N.JA.C. 5:23-2.21 (E) OI AND CFR 1926.32 (F) (OSHA COMPETE 3. ANY VARIATION FROM THE PLANS MIL ENGINEER AND APPROVED BY THE A 4. THIS SET OF PLANS SHALL NOT BE U UNTIL EACH PLAN HAS BEEN REVISE CONSTRUCTION DETAILS/SHOP DRAY SHALL BE REVIEWED AND APPROVED 6. THIS SET OF DRAWINGS AND ALL INF AUTHORIZED FOR THE USE ONLY BY CONTRACTED OR TO WHOM IT IS CEI BE COPIED, REUSED, DISCLOSED, DIS OTHER PURPOSE WITHOUT THE WRI INC. AND ORSTED. 7. REFER TO THE COMPLETE SET OF PL 8. ANY DEMOLITION MATERIAL SHALL B ON-SITE BURIAL OR BURNING IS PER 9. THE APPLICANT SHALL NOTIFY THE A THE START OF ANY CONSTRUCTION. 10. IF DURING THE COURSE OF SUBMAR OTHER WORK, A REPORTABLE SPILL OF SPILL) DOES OCCUR, WORK MUST 	ROM PLAN PREPARED BY E2PM GROUP, (2023). E AN INDIVIDUAL RESPONSIBLE FOR G THE COURSE OF SITE IMPROVEMENTS F THE NJ UNIFORM CONSTRUCTION CODE ENT PERSON). JST BE AUTHORIZED BY THE DESIGN UTHORITIES HAVING JURISDICTION (AHJ). TILIZED AS CONSTRUCTION DOCUMENTS D TO INDICATE "ISSUED FOR WINGS UTILIZED BY THE CONTRACTOR D BY THE DESIGN ENGINEER. CORMATION CONTAINED HEREIN IS THE PARTY FOR WHOM THE WORK IS RTIFIED. THIS SET OF DRAWINGS MAY NOT STRIBUTED, OR RELIED UPON FOR ANY TTEN CONSENT OF HDR ENGINEERING LANS FOR ADDITIONAL INFORMATION. E PROPERLY DISPOSED OF AND NO MITTED. AHJ A MINIMUM OF 48 HOURS PRIOR TO INE CABLE INSTALLATION ACTIVITIES OR (I.E. DEPENDING ON SIZE AND LOCATION	 THE C KNOW TO BE SHALL MONI CONT ADDR INFOF ORGA FOR T THE C ACCC THE C ACCC THE S AND N THE S MANN AND N THE S MANN AND N THE S MANN AND N THE S MANN AND N ALL U VERIF THE C PLANS CONS THE C PLANS CONS THE C MARK CONS THE C MARK THE C MARK CONS <	CONTRACTOR/OWNER RESPONSIBIL CONTRACTOR/OWNER SHALL DESI VLEDGEABLE OF CONSTRUCTION SITE ON L BE RESPONSIBLE FOR THE IMPLI TORING OF SAFETY STANDARDS A RACTOR/OWNER SHALL PROVIDE RESS AND TELEPHONE NUMBER OF MATION, THE REPRESENTATIVE P INIZATION WHO SIGNED THE CONT FILS FUNCTION. CONTRACTOR SHALL CONDUCT AL DRDANCE WITH CURRENT O.S.H.A. SITE CONTRACTOR SHALL VERIFY I WERTICAL ELEVATIONS. SITE CONTRACTOR SHALL VERIFY I WERTICAL ELEVATIONS. SITE CONTRACTOR SHALL VERIFY I WERTICAL ELEVATIONS. SITE CONTRACTOR SHALL PERFOR WANUFACTURERS' RECOMMENDAT IMMENSIONS AND EXISTING CONDIT RACTOR AND THE OWNER MUST E RE PROCEEDING WITH THE WORK INDERGROUND UTILITY LOCATION. FIED IN THE FIELD BY THE CONTRACTOR SHALL VERIFY FIELD S AND SHALL BE RESPONSIBLE FO STRUCTION. CONTRACTOR SHALL VERIFY FIELD S AND SHALL BE RESPONSIBLE FO STRUCTION. CONTRACTOR SHALL CALL 1-800-27 CONTRACTOR SHALL CALL 1-800-27 C	GNATE A PERSON TH SAFETY STANDARDS / A REGULAR BASIS. TH EMENTATION, DISCHA ND PRACTICES AT TH DESIGN ENGINEER W 5 DESIGNEE. IN LIEU C 9 PROSIN FROM THE CO 9 PROSTRUCTION TO 9 STANDARDS. WITH DESIGN ENGINE G OR HAVE BEEN APP AND MATCH HORIZON 9 MALL WORK IN A WO L APPLICABLE CODES 10 NS MUST BE VERIF 30 NOTIFIED OF ANY D 10 SMUST BE VERIF 30 NOTIFIED OF ANY D 10 SMUST BE VERIF 30 NOTIFIED OF ANY D 10 CONDITIONS AS SHO R FIELD MEASUREME 10 NS TRUCTION. 12 1000 FOR FIELD ND UTILITIES PRIOR T 13 ARE NOTICEABLY DIF 0 CONDITIONS AS SHO R FIELD MEASUREME 18 LE FOR ALL SHORIN 0 NSTRUCTION. 12 1000 FOR FIELD ND UTILITIES PRIOR T 13 ARE NOTICEABLY DIF 0 CONDITIONS AS SHO R FIELD MEASUREME 19 DIN THESE PLANS IS 19 G. THE CONTRACTO 19 GORMS FOR PEDES NEW JERSEY BARRIE 1 ALL CONDITIONS OF ES HAVING JURISDICT MAINTENANCE OF TH 19 G FEATURE SUCH AS 10 KS PACE EASEMEN 0 ON THIS PLAN. NDS SHALL BE RESTO REVIEW JERSEY BARRIE 1 ALL CONDITIONS OF ES HAVING, LIGHTS, CHEDULED FOR REMO 1 THE CONTRACTOR. 10 STAURE SUCH AS 10 ST

LEGEND				
— — - - 10 - — —	EXISTING TOPOGRAPHY/BATHYMETRY		SUBMERGED AQUATIC VEGETATION (AERIAL SURVEYS - LOW DENSITY)	OPE INST
<u> </u>	EXISTING SUBSEA CABLE			
U	SUBMERGED ELECTRIC TRANSMISSION CABLE (JET TECHNOLOGY INSTALLATION)		STATE NAVIGATION CHANNEL FEDERAL NAVIGATION CHANNEL (INTRACOASTAL WATERWAY)	
	HORIZONTAL DIRECTIONAL DRILL LINE		DREDGING LIMIT	
	TEMPORARY CONSTRUCTION EASEMENT LINE		GEOPHYSICAL SURVEY CORRIDOR/LIMITS OF ACCESS AND MOORING	
	SHELLFISH - HARDCLAMS MODERATE/HIGH DENSITY AND/OR COMMERCIAL VALUE (NJDEP MAPPING		AQUACULTURE LEASE AREA	
	1963, 1986, 2012)		PERMANENT UTILITY EASEMENT	
	SUBMERGED AQUATIC VEGETATION (1979, 1986)		PRIME FISHING AREA	
	SUBMERGED AQUATIC VEGETATION (RUTGERS DATA 2003, 2009)		LIMIT OF STATE WATERS (3 NAUTICAL MILES)	
			ARTIFICIAL REEFS	
	SUBMERGED AQUATIC VEGETATION (AERIAL SURVEYS - HIGH DENSITY)	X	WRECKS AND OBSTRUCTIONS	
	SUBMERGED AQUATIC VEGETATION (AERIAL SURVEYS - MEDIUM DENSITY)		HDD PIT	

(AERIAL SURVEYS - MEDIUM DENSITY)

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NOTES:

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NSTRUCTION TO BE IN NDARDS.

I DESIGN ENGINEER WHAT R HAVE BEEN APPROVED PRIOR TO

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L WORK IN A WORKMANLIKE PLICABLE CODES, ORDINANCES, S AND STANDARDS.

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JERSEY BARRIER FREE SUBCODE. L CONDITIONS OF APPROVAL AVING JURISDICTION AS IT

ITENANCE OF THE IMPROVEMENTS. EATURE SUCH AS, BUT NOT LIMITED PAVING, LIGHTS, PLANTERS, ULED FOR REMOVAL SHALL BE

JIPMENT ACCESS, STAGING OF DISTURBANCES, MAY TAKE PLACE SPACE EASEMENT AREA AND N THIS PLAN.

SHALL BE RESTORED TO MATCH EGETATED IN ACCORDANCE WITH ORATION MITIGATION PLAN.

SHALL REMAIN IN PLACE FOR LESS

D MOORING IN SAV AREAS AND

EN-CUT SHORELINE CABLE STALLATION AREA (COFFERDAM)

WATER (

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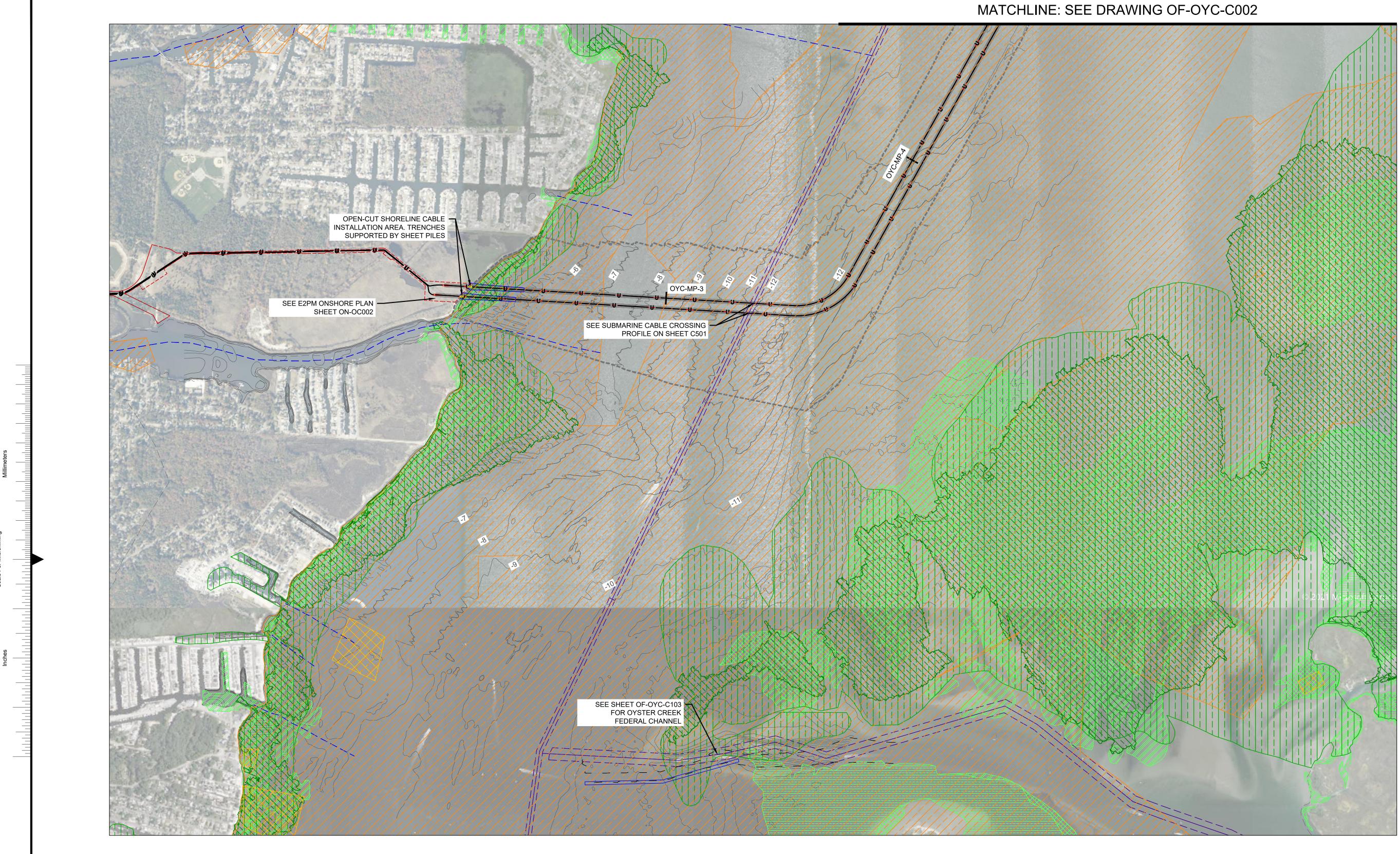
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- 4. CAB
- 5. MOC DRE PRA VEG SHA

REFEREN

- 1. NJDE SUB COA TIDE
- 2. SUB MAP WEB VEG CON INVE CON REM ASS HAR AND AND "SUE NAT MON REM DEV "SUE 2019
- 3. SHE MOD BAY WEB REL DEP JER WILD GIS I
- 4. PRIM THE REV IDEN BUR
- 5. ART FOR FRO
- 6. BEA LANI DOW
- 7. INTR FRO WEB NAV
- 8. TIDA CON HIGH
- 9. BATH SITE CON BAR

WATER QUALITY MONITORING NOTES:	WATER QUALITY/BEST MANAGEMENT PRACTICES NOTES:	
1. NO IN-WATER WORK SHALL COMMENCE UNTIL ALL PRE-CONSTRUCTION CONDITIONS RELATING TO SUCH WORK CONTAINED IN THE NJDEP DIVISION	1. TIMING RESTRICTIONS FOR IN-WATER WORK WILL BE IMPLEMENTED AS SPECIFIED BY PERMIT CONDITIONS AND/OR IN COORDINATION WITH STATE	
OF LAND RESOURCES PROTECTION AND U.S. ARMY CORPS OF ENGINEERS PHILADELPHIA DISTRICT PERMITS HAVE BEEN MET.	AND FEDERAL AGENCIES. 2. DREDGING SHALL BE PERFORMED USING CLOSED CLAMSHELL	
 DURING THE TRENCHING AND INSTALLATION OF CABLES, THE CONTRACTOR SHALL IMPLEMENT THE SUSPENDED SEDIMENT/WATER QUALITY MONITORING PLAN PER THE NJDEP PERMIT AND SECTION 401 WATER QUALITY CERTIFICATION CONDITIONS. 	'ENVIRONMENTAL' BUCKET, TO THE MAXIMUM EXTENT PRACTICABLE. SHOULD SITE CONDITIONS PREVENT THE USE OF AN ENVIRONMENTAL CLAMSHELL BUCKET, OCEAN WIND 1 WILL PROPOSE AN ALTERNATIVE DREDGE BUCKET OR DREDGING METHOD FOR REVIEW AND APPROVAL BY	A
3. ALL LABORATORY ANALYSES OF WATER QUALITY AND SEDIMENTS REQUIRED IN THE PERMIT CONDITION MUST BE CONDUCTED BY A LABORATORY CERTIFIED BY THE NEW JERSEY DEPARTMENT OF ENVIRONMENTAL	 APPROPRIATE REGULATORY AGENCIES. 3. DREDGING SHALL BE LIMITED TO AUTHORIZED PROJECT DEPTH(S) AND VOLUME PER PERMIT PLANS. 	
PROTECTION. COASTAL ZONE MANAGEMENT NOTES:	4. THE DREDGE SHALL BE OPERATED SO AS TO CONTROL THE RATE OF DESCENT OF THE BUCKET SO AS TO MAXIMIZE THE VERTICAL CUT OF THE CLAMSHELL BUCKET WHILE NOT PENETRATING THE SEDIMENT BEYOND THE	
1. THE PURPOSE OF THESE PLANS IS TO SECURE STATE AND FEDERAL PERMITS FOR THE PROPOSED CONSTRUCTION OF THE OCEAN WIND OFFSHORE WIND FARM PROJECT.	VERTICAL DIMENSION OF THE OPEN BUCKET (I.E. OVERFILLING THE BUCKET). THIS WILL REDUCE THE AMOUNT OF FREE WATER IN THE DREDGED MATERIAL, WILL AVOID OVERFILLING THE BUCKET, AND MINIMIZE THE NUMBER OF DREDGE BUCKET CYCLES NEEDED TO COMPLETE THE	no.datebyckddescriptionBA4/14/23JWJDISSUED FOR PERMIT
2. THE APPLICANT/OWNER SHALL SECURE ALL PROPOSED PERMANENT AND TEMPORARY EASEMENTS AND RIGHTS OF ACCESS SHOWN ON THE PLAN PRIOR TO CONSTRUCTION. THE OWNER/CONTRACTOR SHALL ALSO SECURE	DREDGING. 5. DREDGE BUCKETS WILL BE LIFTED IN A CONTINUOUS MOTION THROUGH THE WATER COLUMN AND INTO THE BARGE TO MINIMIZE LOSS OF DREDGED MATERIAL FROM THE BUCKET.	<u>NOTES:</u> 1. HORIZONTAL DATUM: NAD83 NEW JERSEY STATE
NECESSARY EASEMENTS OR RIGHTS OF ACCESS BEYOND THE LIMITS SHOWN, AS DEEMED NECESSARY. 3. SHOULD SITE CONDITIONS PREVENT THE USE OF AN ENVIRONMENTAL	6. DECANT WATER SHALL BE HELD A MINIMUM OF 24 HOURS AFTER THE LAST ADDITION OF DREDGED MATERIAL TO THE DECANT HOLDING SCOW PRIOR	 2. VERTICAL DATA CONVERSION OYSTER CREEK:
CLAMSHELL BUCKET, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE DREDGE BUCKET OR DREDGING METHOD FOR REVIEW AND APPROVAL BY NJDEP AND USACE.	TO DISCHARGE.7. DREDGED MATERIAL SHALL BE PLACED DELIBERATELY IN THE BARGE IN ORDER TO PREVENT SPILLAGE OF MATERIAL OVERBOARD.	NGVD29 = NAVD88 + 1.335 FT VERTICAL DATA CONVERSION BL ENGLAND:
 CABLE INSTALLATION WILL BE TO CABLE BURIAL DEPTHS PER PERMIT PLANS. MOORING AND STAGING ASSOCIATED WITH CABLE INSTALLATION OR 	8. THE PERMITTEE SHALL MAINTAIN A "NO BARGE OVERFLOW" DURING THE ENTIRE DREDGING OPERATION.	NGVD29 = NAVD88 + 1.263 FT 3. ALL DIMENSIONS ARE IN FEET (FT) UNLESS
DREDGING WILL BE LIMITED BY THE CONTRACTOR TO THE EXTENT PRACTICABLE SO AS TO MINIMIZE IMPACTS TO SUBMERGED AQUATIC	 A PROTECTED SPECIES OBSERVER (PSO) WILL MONITOR DREDGING ACTIVITIES. 	NOTED OTHERWISE. 4. ALL BATHYMETRIC CONTOURS ARE DEPICTED IN
VEGETATION, SHELLFISH HABITAT, AND INTERTIDAL AND SUBTIDAL SHALLOWS AREAS.	10. THE GUNWALES OF THE DREDGE SCOWS SHALL NOT BE RINSED OR HOSED EXCEPT TO THE EXTENT NECESSARY TO ENSURE THE SAFETY OF WORKERS MANEUVERING ON THE DREDGE SCOW.	RELATION TO MEAN LOWER LOW WATER (MLLW). 5. SEE HDD SERIES SHEETS FOR DETAILED PLAN
REFERENCE NOTES:	11. DURING DISCHARGE OF THE DECANT WATER FROM THE HOLDING SCOW, CARE SHALL BE TAKEN TO AVOID RESUSPENDING OR DISCHARGING	AND PROFILE OF CABLE ROUTE. 6. FOR DETAILS ON WETLAND IMPACTS PLEASE SEE ONSHORE PLAN SET.
1. NJDEP SPECIAL AREAS DEPICTED HEREIN INCLUDE SHELLFISH HABITAT, SUBMERGED AQUATIC VEGETATION, PRIME FISHING GROUNDS, 1970 MAPPED COASTAL WETLANDS, ARTIFICIAL REEFS, BEACHES AND DUNES, AND	SEDIMENT WHICH HAS SETTLED IN THE DECANT HOLDING SCOW. NAVIGATION AND VESSEL TRAFFIC NOTES:	7. THESE DRAWINGS ARE FOR DESIGN AND PERMITTING PURPOSES ONLY AND NOT INTENDED FOR CONSTRUCTION. FINAL
 TIDELANDS CLAIM AREAS. REFERENCE CITATIONS ARE PROVIDED BELOW. SUBMERGED AQUATIC VEGETATION DEPICTED HEREIN IS BASED ON NJDEP MAPPING AVAILABLE THROUGH THE NJDEP LAND RESOURCE PROTECTION WEBSITE. SOURCES INCLUDE NEW JERSEY SUBMERGED AQUATIC 	1. OCEAN WIND SHALL POST APPROPRIATE WARNING SIGNS DURING CONSTRUCTION AS REQUIRED BY THE US COAST GUARD (USCG). OCEAN WIND SHALL NOTIFY THE USCG 30 DAYS PRIOR TO THE START OF IN-WATER	LOCATION OF PROPOSED IMPROVEMENTS WILL BE COORDINATED WITH ENGINEER UPON AWARD OF CONTRACT.
VEGETATION DISTRIBUTION ATLAS (FINAL REPORT), FEBRUARY, 1980, CONDUCTED BY EARTH SATELLITE CORPORATION AND ALSO ON "EELGRASS INVENTORY" AND "LANDSCAPE SCALE APPROACHES TO COASTAL HABITAT	 STAGING OR CONSTRUCTION. AT LEAST 24 HOURS PRIOR TO THE COMMENCEMENT OF IN-WATER WORK, OCEAN WIND WILL NOTIFY THE USCG OF THE START OF WORK, THE 	8. AREAS OF IMPACTS TO REGULATED AREAS WILL BE PROVIDED UPON FINAL DESIGN OF THE CABLE ROUTES AND RELATED IMPROVEMENTS.
CONSERVATION - BARNEGAT BAY". DIGITIZED IN GIS BY CENTER FOR REMOTE SENSING AND SPATIAL ANALYSIS, RUTGERS UNIVERSITY. ASSESSMENT OF SEAGRASS STATUS IN THE BARNEGAT BAY - LITTLE EGG	EXPECTED COMPLETION DATE, THE HOURS OF THE DAY THE WORK WILL BE PERFORMED, THE NAMES OF THE VESSELS ON SCENE, THE VHF RADIO CHANNELS THE VESSELS WILL MONITOR AND THE PROJECT'S 24/7 POINT OF	9. THESE DRAWINGS SHOW THE APPROXIMATE LOCATION OF CABLE ROUTE. FINAL CABLE ROUTE TO BE PROVIDED BY THE CONTRACTOR.
HARBOR ESTUARY SYSTEM: 2003 AND 2009" PREPARED BY LATHROP, R.G. AND S. HAAG. 2011 WITH GRANT F. WALTON CENTER FOR REMOTE SENSING AND SPATIAL ANALYSIS, NEW BRUNSWICK, NJ, CRSSA REPORT #2011-01.	CONTACT. 3. NO LESS THAN 24 HOURS PRIOR TO COMMENCEMENT OF IN-WATER WORK OCEAN WIND WILL INFORM THE LOCAL WATERWAY USERS OF THE START OF	
"SUBMERGED AQUATIC VEGETATION MAPPING IN THE BARNEGAT BAY NATIONAL ESTUARY: UPDATE TO YEAR 2003" PREPARED BY LATHROP, R.G., P. MONTESANO AND S. HAAG 2004 WITH GRANT F. WALTON CENTER FOR REMOTE SENSING AND SPATIAL ANALYSIS. ADDITIONAL SAV MAPPING DEVELOPED BY APEM INC FOR HDR ENGINEERING INC. FROM THE	 4. THIS WORK WILL BE CONDUCTED IN A MANNER THAT THE FREE NAVIGATION OF THE WATERWAY IS NOT UNREASONABLY INTERFERED WITH AND THE PRESENT NAVIGATIONAL DEPTHS ARE NOT IMPAIRED. TIMELY NOTICE OF 	FOR PERMITTING APPROVAL
"SUBMERGED AQUATIC VEGETATION AERIAL SURVEY" BY OCEAN WIND, LLC. 2019. NEW JERSEY.	ANY AND ALL EVENTS THAT MAY AFFECT NAVIGATION SHALL BE GIVEN TO THE DISTRICT COMMANDER DURING THE PERFORMANCE OF THE WORK.	
3. SHELLFISH HABITAT DEPICTED HEREIN IS BASED UPON NJDEP MAPPING OF MODERATE AND HIGH DENSITY/COMMERCIAL VALUE AREAS OF BARNEGAT BAY AVAILABLE THROUGH THE NJDEP LAND RESOURCES PROTECTION WEBSITE. SOURCES INCLUDE DISTRIBUTION OF SHELLFISH RESOURCES IN RELATION TO THE NEW JERSEY INTRACOASTAL WATERWAY (U.S. DEPARTMENT OF THE INTERIOR, 1963) AND/OR "INVENTORY OF NEW	5. WITHIN 30 DAYS AFTER THE COMPLETION OF CONSTRUCTION, OCEAN WIND SHALL POST WARNING SIGNS AT LANDFALLS AS IDENTIFIED IN PERMIT PLANS AND SHALL NOTIFY THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION AS TO THE CABLE(S) LOCATION(S) FOR PROPER NOAA CHART IDENTIFICATION.	Ocean Wind 1
JERSEY'S ESTUARINE SHELLFISH RESOURCES" (DIVISION OF FISH, GAME AND WILDLIFE, BUREAU OF SHELLFISHERIES, 1983-PRESENT). DATA DIGITIZED IN GIS BY HDR, 2019.		An Ørsted & PSEG project G
4. PRIME FISHING GROUNDS DEPICTED ON THESE PLANS WERE MAPPED BY THE NJDEP FOR THE ATLANTIC OCEAN FOR PURPOSES OF ENVIRONMENTAL REVIEWS AS WELL AS COMMERCIAL AND RECREATIONAL FISHING GROUNDS IDENTIFICATION. SOURCE OBTAINED BY HDR NOVEMBER 2021 FROM NJDEP DUDEAU OF OLD	ABBREVIATIONS: AHJ AUTHORITIES HAVING JURISDICTION	
BUREAU OF GIS. 5. ARTIFICIAL REEFS DEPICTED ON THESE PLANS WERE MAPPED BY THE NJDEP FOR THE ATLANTIC OCEAN. SOURCE OBTAINED BY HDR IN NOVEMBER 2021 FROM NJDEP BUREAU OF GIS.	CLV CABLE LAYING VESSEL DP DYNAMIC POSITIONING HDD HORIZONTAL DIRECTIONAL DRILL IBSP ISLAND BEACH STATE PARK	
6. BEACHES AND DUNES DEPICTED HEREIN ARE SOURCED FROM THE NJDEP LAND USE/LAND COVER 2015 DATASET PUBLISHED IN 2019 AND DOWNLOADED BY HDR IN NOVEMBER 2021 FROM THE NJDEP BUREAU OF GIS.	SAV SUBMERGED AQUATIC VEGETATION	HDR ENGINEERING, INC. 50 TICE BOULEVARD, SUITE 210 WOODCLIFF LAKE, NJ 07677
 INTRACOASTAL WATERWAY WAS DOWNLOADED BY HDR DECEMBER 2021 FROM THE U.S. ARMY CORPS OF ENGINEERS PHILADELPHIA DISTRICT WEBSITE. ADDITIONAL SOURCING FOR LOCATION VERIFIED VIA NOAA 		date detailed W. LIN
 NAVIGATION CHART 12324. 8. TIDAL DATUMS HEREIN ARE BASED ON NOAA TIDAL VDATUM MODEL AND CONFIRMED BY HEIGHT DIFFERENCE METHOD DOCUMENTED IN NJDOT MEAN 		designed checked J. WYNOHRADNYK J. DENNIS
 HIGH WATER MANUAL PREPARED BY TECHNICAL SURVEY UNIT (2008). 9. BATHYMETRIC SURVEY DATA PROVIDED BY ORSTED 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.	NJ CERTIFICAT AUTHORIZATIC	E OF N 24GA28010700 GENERAL NOTES AND LEGEND
Tidal Datums Barnegat Bay Holtec Farm Landing Barnegat Bay IBSP Shoreline	Barnegat Bay Atlantic Shoreline BL England Atlantic Shoreline	OCEAN WIND 1 OFFSHORE WIND PROJECT OFFSHORE CABLE ROUTES J
MHHW 0.40 MHW 0.27 MTL -0.05	0.42 2.17 1.96 0.27 1.84 1.56 -0.07 -0.19 -0.37	Project RDS-PP CODE
MIL -0.05 MLW -0.42 MLW -0.50	-0.07 -0.19 -0.37 -0.45 -2.01 -2.32 -0.51 -2.15 -2.47	drawing G002 – ^{rev.} A
	NJ PROFESSI	P. DENNIS ONAL ENGINEER E05780300 sheet 2 of 13 sheets file G002.dwg

				1
۱۸/۵٦	FER QUALITY/BEST MANAGEMENT PRACTICES NOTES:			
	TIMING RESTRICTIONS FOR IN-WATER WORK WILL BE IMPLEMENTED SPECIFIED BY PERMIT CONDITIONS AND/OR IN COORDINATION WITH) AS		
2.	AND FEDERAL AGENCIES. DREDGING SHALL BE PERFORMED USING CLOSED CLAMSHELL 'ENVIRONMENTAL' BUCKET, TO THE MAXIMUM EXTENT PRACTICABLE SHOULD SITE CONDITIONS PREVENT THE USE OF AN ENVIRONMENT	Ξ.		A
	CLAMSHELL BUCKET, OCEAN WIND 1 WILL PROPOSE AN ALTERNATIV DREDGE BUCKET OR DREDGING METHOD FOR REVIEW AND APPROV APPROPRIATE REGULATORY AGENCIES.	VE		
3.	DREDGING SHALL BE LIMITED TO AUTHORIZED PROJECT DEPTH(S) A VOLUME PER PERMIT PLANS.	AND		
4.	THE DREDGE SHALL BE OPERATED SO AS TO CONTROL THE RATE C DESCENT OF THE BUCKET SO AS TO MAXIMIZE THE VERTICAL CUT C CLAMSHELL BUCKET WHILE NOT PENETRATING THE SEDIMENT BEYO VERTICAL DIMENSION OF THE OPEN BUCKET (I.E. OVERFILLING THE	OF THE OND THE		
	THIS WILL REDUCE THE AMOUNT OF FREE WATER IN THE DREDGED MATERIAL, WILL AVOID OVERFILLING THE BUCKET, AND MINIMIZE TH NUMBER OF DREDGE BUCKET CYCLES NEEDED TO COMPLETE THE DREDGING.		no. date by ckd description A 4/14/23 JW JD ISSUED FOR PERMIT	- B
5.	DREDGE BUCKETS WILL BE LIFTED IN A CONTINUOUS MOTION THRO WATER COLUMN AND INTO THE BARGE TO MINIMIZE LOSS OF DRED MATERIAL FROM THE BUCKET.	GED	NOTES: 1. HORIZONTAL DATUM: NAD83 NEW JERSEY STATE PLANE, U.S. FOOT	
6.	DECANT WATER SHALL BE HELD A MINIMUM OF 24 HOURS AFTER TH ADDITION OF DREDGED MATERIAL TO THE DECANT HOLDING SCOW TO DISCHARGE.		 VERTICAL DATA CONVERSION OYSTER CREEK: NGVD29 = NAVD88 + 1.335 FT 	
7.	DREDGED MATERIAL SHALL BE PLACED DELIBERATELY IN THE BARG ORDER TO PREVENT SPILLAGE OF MATERIAL OVERBOARD.	GE IN	VERTICAL DATA CONVERSION BL ENGLAND: NGVD29 = NAVD88 + 1,263 FT	C
8.	THE PERMITTEE SHALL MAINTAIN A "NO BARGE OVERFLOW" DURING ENTIRE DREDGING OPERATION.	3 THE	 ALL DIMENSIONS ARE IN FEET (FT) UNLESS NOTED OTHERWISE. 	
9.	A PROTECTED SPECIES OBSERVER (PSO) WILL MONITOR DREDGING ACTIVITIES.		4. ALL BATHYMETRIC CONTOURS ARE DEPICTED IN	
10.	THE GUNWALES OF THE DREDGE SCOWS SHALL NOT BE RINSED OR EXCEPT TO THE EXTENT NECESSARY TO ENSURE THE SAFETY OF W MANEUVERING ON THE DREDGE SCOW.		RELATION TO MEAN LOWER LOW WATER (MLLW).5. SEE HDD SERIES SHEETS FOR DETAILED PLAN	
11.	MANEUVERING ON THE DREDGE SCOW. DURING DISCHARGE OF THE DECANT WATER FROM THE HOLDING S CARE SHALL BE TAKEN TO AVOID RESUSPENDING OR DISCHARGING		AND PROFILE OF CABLE ROUTE.6. FOR DETAILS ON WETLAND IMPACTS PLEASE	
	SEDIMENT WHICH HAS SETTLED IN THE DECANT HOLDING SCOW.		SEE ONSHORE PLAN SET.7. THESE DRAWINGS ARE FOR DESIGN AND	
	IGATION AND VESSEL TRAFFIC NOTES: OCEAN WIND SHALL POST APPROPRIATE WARNING SIGNS DURING CONSTRUCTION AS REQUIRED BY THE US COAST GUARD (USCG). OF	CEAN	PERMITTING PURPOSES ONLY AND NOT INTENDED FOR CONSTRUCTION. FINAL LOCATION OF PROPOSED IMPROVEMENTS WILL BE COORDINATED WITH ENGINEER UPON	
2.	WIND SHALL NOTIFY THE USCG 30 DAYS PRIOR TO THE START OF IN STAGING OR CONSTRUCTION. AT LEAST 24 HOURS PRIOR TO THE COMMENCEMENT OF IN-WATER	I-WATER	 AWARD OF CONTRACT. 8. AREAS OF IMPACTS TO REGULATED AREAS WILL BE PROVIDED UPON FINAL DESIGN OF THE CABLE ROUTES AND RELATED IMPROVEMENTS. 	
	OCEAN WIND WILL NOTIFY THE USCG OF THE START OF WORK, THE EXPECTED COMPLETION DATE, THE HOURS OF THE DAY THE WORK PERFORMED, THE NAMES OF THE VESSELS ON SCENE, THE VHF RAI CHANNELS THE VESSELS WILL MONITOR AND THE PROJECT'S 24/7 P CONTACT.	WILL BE DIO	9. THESE DRAWINGS SHOW THE APPROXIMATE LOCATION OF CABLE ROUTE. FINAL CABLE ROUTE TO BE PROVIDED BY THE CONTRACTOR.	
3.	OCEAN WIND WILL INFORM THE LOCAL WATERWAY USERS OF THE S			┫
4.	THE WORK USING THE "LOCAL NOTICE TO MARINERS". THIS WORK WILL BE CONDUCTED IN A MANNER THAT THE FREE NAV OF THE WATERWAY IS NOT UNREASONABLY INTERFERED WITH AND PRESENT NAVIGATIONAL DEPTHS ARE NOT IMPAIRED. TIMELY NOTIC	THE CE OF	FOR PERMITTING APPROVAL	F
5.	ANY AND ALL EVENTS THAT MAY AFFECT NAVIGATION SHALL BE GIV THE DISTRICT COMMANDER DURING THE PERFORMANCE OF THE W WITHIN 30 DAYS AFTER THE COMPLETION OF CONSTRUCTION, OCE	ORK. AN WIND		-
	SHALL POST WARNING SIGNS AT LANDFALLS AS IDENTIFIED IN PERM AND SHALL NOTIFY THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION AS TO THE CABLE(S) LOCATION(S) FOR PROPER N CHART IDENTIFICATION.		Ocean Wind 1	
			An Ørsted & PSEG project	
				G
ABB	REVIATIONS:			-
AHJ CLV DP	AUTHORITIES HAVING JURISDICTION CABLE LAYING VESSEL DYNAMIC POSITIONING			
HDD IBSP SAV	HORIZONTAL DIRECTIONAL DRILL ISLAND BEACH STATE PARK SUBMERGED AQUATIC VEGETATION		HDR ENGINEERING, INC.	
			50 TICE BOULEVARD, SUITE 210 WOODCLIFF LAKE, NJ 07677	H
			date detailed 4/14/2023 W. LIN	1
			designedcheckedJ. WYNOHRADNYKJ. DENNIS	
			J. WTNOHRADNTR J. DEINNIS	-
				.
		NJ CERTIFICATE OF AUTHORIZATION 24GA28010700	GENERAL NOTES AND LEGEND	
		OF NEW JER	OCEAN WIND 1 OFFSHORE WIND PROJECT	$\left \right $
Borne	gat Bay Atlantic Shoreline BL England Atlantic Shoreline	NO. 5. *	OFFSHORE CABLE ROUTES	
42	2.17 1.96	SUDNAL ENGL	project RDS-PP CODE	
27 07	1.84 1.56 -0.19 -0.37 2.01 2.22		112083 rev.	
45 51	-2.01 -2.32 -2.15 -2.47		G002 – A	
		JOSEPH P. DENNIS	aboot 2 of 12 abooto	• 1



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(AERIAL SURVEYS - HIGH DENSITY) SUBMERGED AQUATIC VEGETATION (AERIAL SURVEYS - MEDIUM DENSITY)

(RUTGERS DATA 2003, 2009)

EXISTING TOPOGRAPHY/BATHYMETRY

SUBMERGED ELECTRIC TRANSMISSION

HORIZONTAL DIRECTIONAL DRILL LINE

EXISTING SUBSEA CABLE

CABLE (JET TECHNOLOGY

TEMPORARY CONSTRUCTION

MODERATE/HIGH DENSITY AND/OR

SUBMERGED AQUATIC VEGETATION

SUBMERGED AQUATIC VEGETATION

SUBMERGED AQUATIC VEGETATION

SHELLFISH - HARDCLAMS

INSTALLATION)

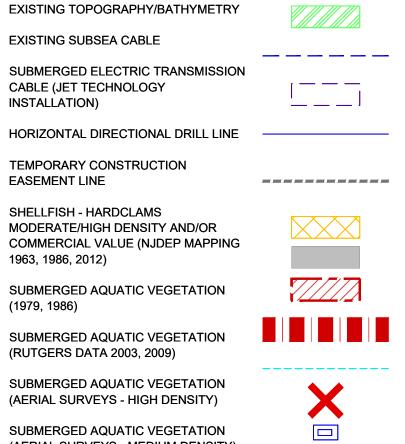
EASEMENT LINE

1963, 1986, 2012)

(1979, 1986)

2

3



SUBMERGED AQUATIC VEGETATION (AERIAL SURVEYS - LOW DENSITY)
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 WRECKS AND OBSTRUCTIONS

HDD PIT

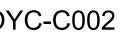
OPEN-CUT SHORELINE CABLE **INSTALLATION AREA (COFFERDAM)**



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1600 HORIZONTAL SCALE IN FEET

<u>KEY MAP</u>

NJ CERTIFICATE OF

AUTHORIZATION 24GA28010700



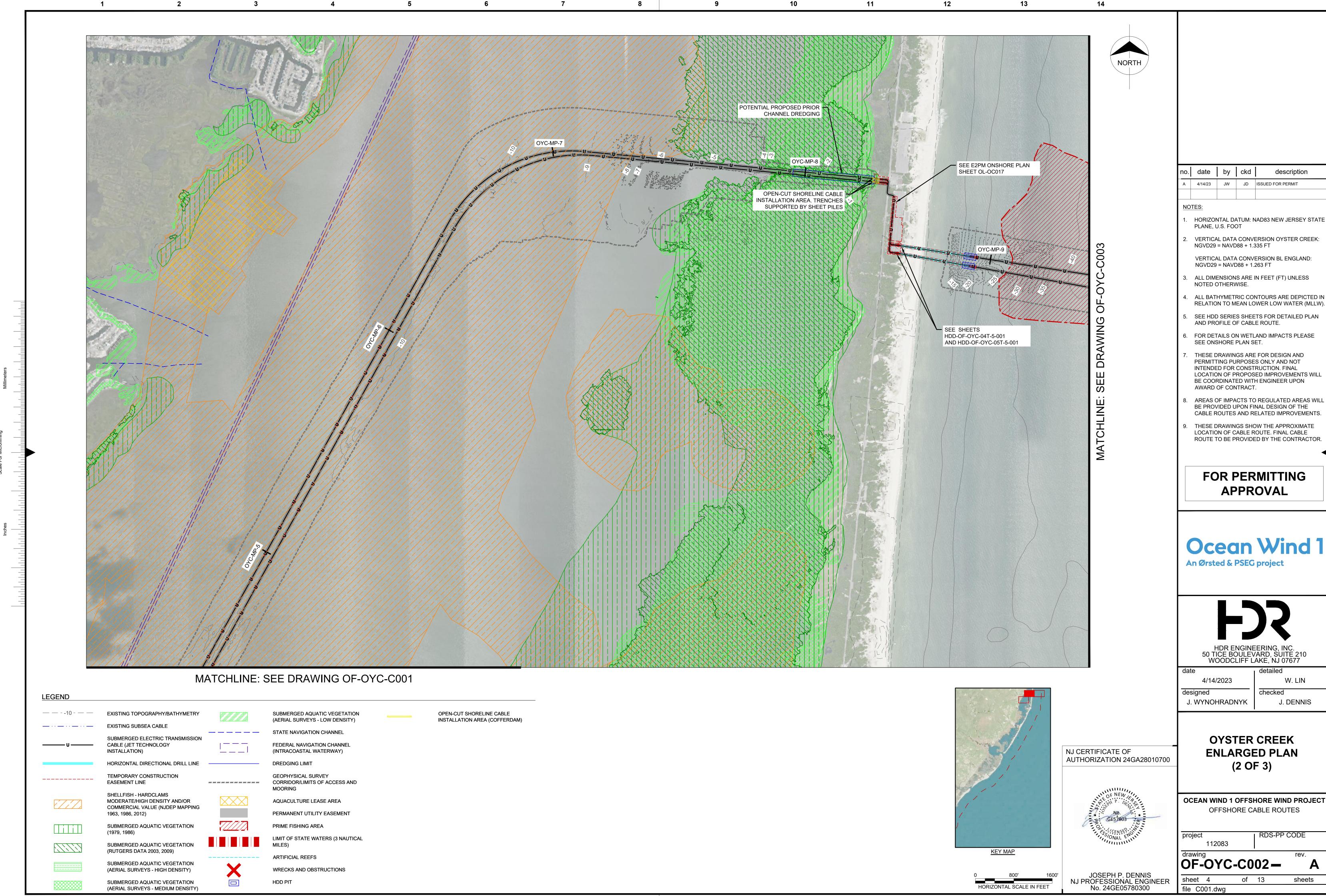
JOSEPH P. DENNIS NJ PROFESSIONAL ENGINEER No. 24GE05780300

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of 13

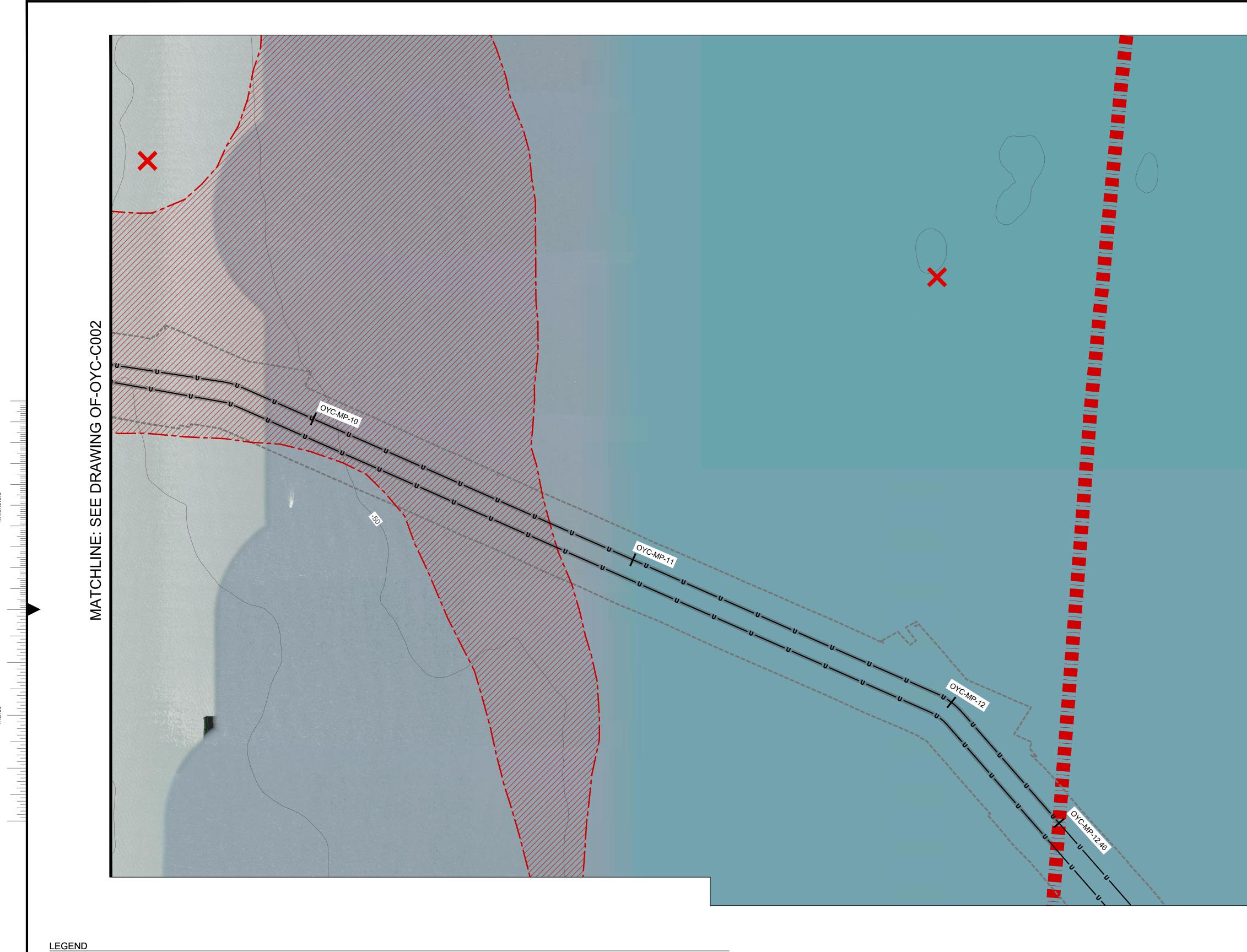
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	EXISTING TOPOGRAPHY/BATHYMETRY		SUBMERGED AQUATIC VEGETATION(AERIAL SURVEYS - LOW DENSITY)	OPE INS ⁻
<u> </u>	EXISTING SUBSEA CABLE			
			STATE NAVIGATION CHANNEL	
0	CABLE (JET TECHNOLOGY INSTALLATION)		FEDERAL NAVIGATION CHANNEL (INTRACOASTAL WATERWAY)	
	HORIZONTAL DIRECTIONAL DRILL LINE		DREDGING LIMIT	
	TEMPORARY CONSTRUCTION		GEOPHYSICAL SURVEY	
	EASEMENT LINE		CORRIDOR/LIMITS OF ACCESS AND	
			MOORING	
	SHELLFISH - HARDCLAMS			
	MODERATE/HIGH DENSITY AND/OR COMMERCIAL VALUE (NJDEP MAPPING	XXX	AQUACULTURE LEASE AREA	
	1963, 1986, 2012)		PERMANENT UTILITY EASEMENT	
	,			
	SUBMERGED AQUATIC VEGETATION		PRIME FISHING AREA	
	(1979, 1986)		LIMIT OF STATE WATERS (3 NAUTICAL	
	SUBMERGED AQUATIC VEGETATION		MILES)	
	(RUTGERS DATA 2003, 2009)		,	
			ARTIFICIAL REEFS	
	SUBMERGED AQUATIC VEGETATION (AERIAL SURVEYS - HIGH DENSITY)		WRECKS AND OBSTRUCTIONS	
		\sim		
	SUBMERGED AQUATIC VEGETATION		HDD PIT	

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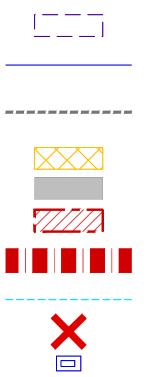
EXISTING TOPOGRAPHY/BATHYMETRY	
EXISTING SUBSEA CABLE	
SUBMERGED ELECTRIC TRANSMISSION CABLE (JET TECHNOLOGY INSTALLATION)	
HORIZONTAL DIRECTIONAL DRILL LINE	_
TEMPORARY CONSTRUCTION EASEMENT LINE	_
SHELLFISH - HARDCLAMS MODERATE/HIGH DENSITY AND/OR COMMERCIAL VALUE (NJDEP MAPPING 1963, 1986, 2012)	
SUBMERGED AQUATIC VEGETATION (1979, 1986)	
SUBMERGED AQUATIC VEGETATION (RUTGERS DATA 2003, 2009)	
SUBMERGED AQUATIC VEGETATION (AERIAL SURVEYS - HIGH DENSITY)	

SUBMERGED AQUATIC VEGETATION

(AERIAL SURVEYS - MEDIUM DENSITY)

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SUBMERGED AQUATIC VEGETATION (AERIAL SURVEYS - LOW DENSITY)
STATE NAVIGATION CHANNEL
FEDERAL NAVIGATION CHANNEL (INTRACOASTAL WATERWAY)

DREDGING LIMIT

GEOPHYSICAL SURVEY CORRIDOR/LIMITS OF ACCESS AND MOORING

AQUACULTURE LEASE AREA PERMANENT UTILITY EASEMENT

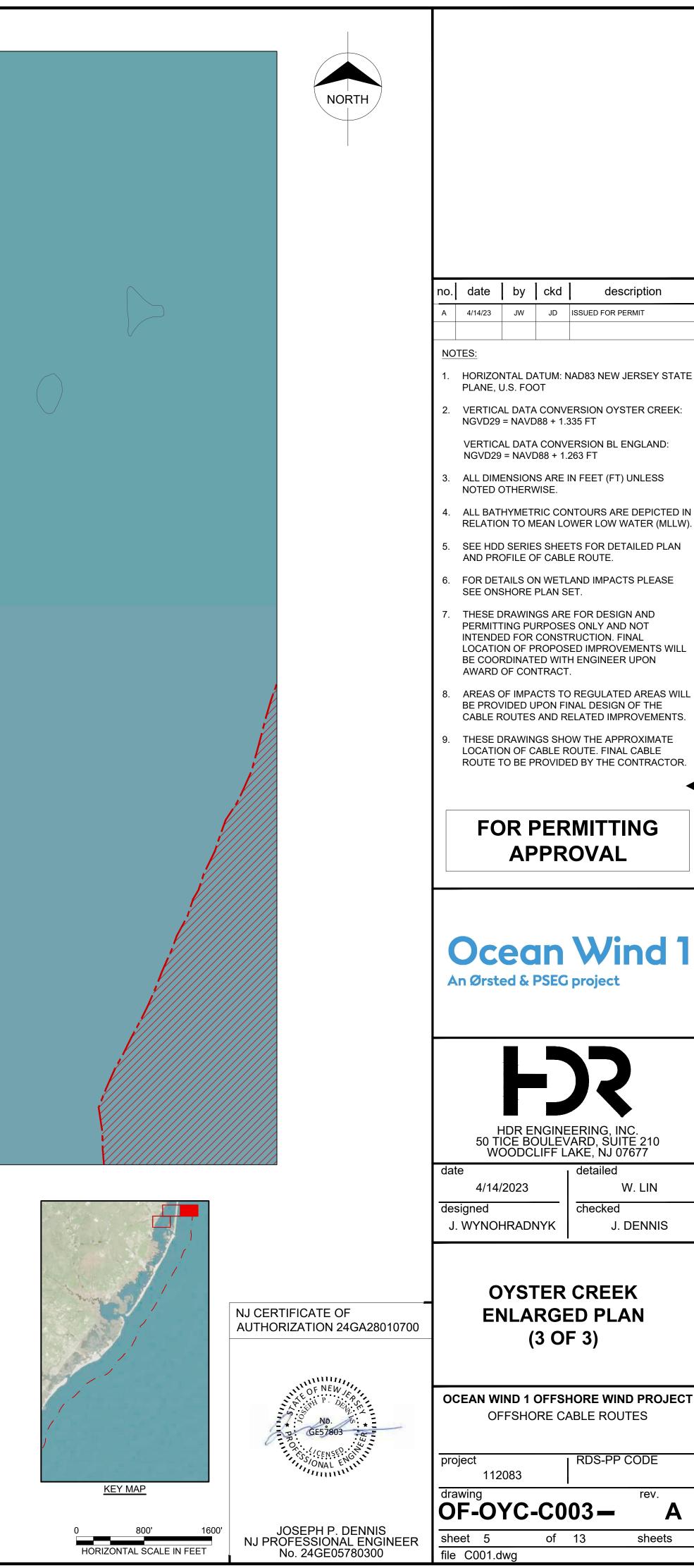
PRIME FISHING AREA

LIMIT OF STATE WATERS (3 NAUTICAL MILES)

ARTIFICIAL REEFS WRECKS AND OBSTRUCTIONS

HDD PIT

OPEN-CUT SHORELINE CABLE INSTALLATION AREA (COFFERDAM)



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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	1.9
MHW	0.27	0.27	1.84	1.5
MTL	-0.05	-0.07	-0.19	-0.3
MLW	-0.42	-0.45	-2.01	-2.3
MLLW	-0.50	-0.51	-2.15	-2.4

TEMPORARY/PERMANENT IMPACTS																
	Jetting/Jet-assisted Jetting/Jet-assisted Cable Plow Trench Cable Plow Skids		Dredging			Anchoring/Mooring		Fill within WOTUS		TOTAL						
Resource	Temporary (ac)	Permanent (ac)	Temporary (ac)	Permanent (ac)	Temporary (ac)	Temporary Volume Removed (cy)		1	Temporary (ac)	Permanent (ac)	Temporary (ac)	Permanent (ac)	Temporary (ac)	Temporary Volume Removed (cy)	Permanent Volume Removed (cy)	Permanent (ac)
State Open Water	5.310	0.000	32.889	0.000	11.031	81,242	0	0.000	0.942	0.000	0.000	0.000	50.172	81,242	0	0.000
Submerged Aquatic Vegetation	0.094	0.000	0.563	0.000	2.945	24,902	0	0.000	0.020	0.000	0.000	0.000	3.622	24,902	0	0.000
Shellfish Habitat	3.755	0.000	22.573	0.000	2.900	24,517	0	0.000	0.695	0.000	0.000	0.000	29.923	24,517	0	0.000
Intertidal and Subtidal Shallows	0.000	0.000	0.000	0.000	3.846	32,520	0	0.000	0.025	0.000	0.000	0.000	3.871	32,520	0	0.000
Prime Fishing Areas	0.527	0.000	3,968	0.000	0.000	0	0	0.000	0.037	0.000	0.000	0.000	4.532	0	0	0.000

MAXIMUM DEPTH OF -12.5 FEET MLLW.

HORIZONTAL SCALE IN FEET

12	13	14

VERTICAL SCALE IN FEET

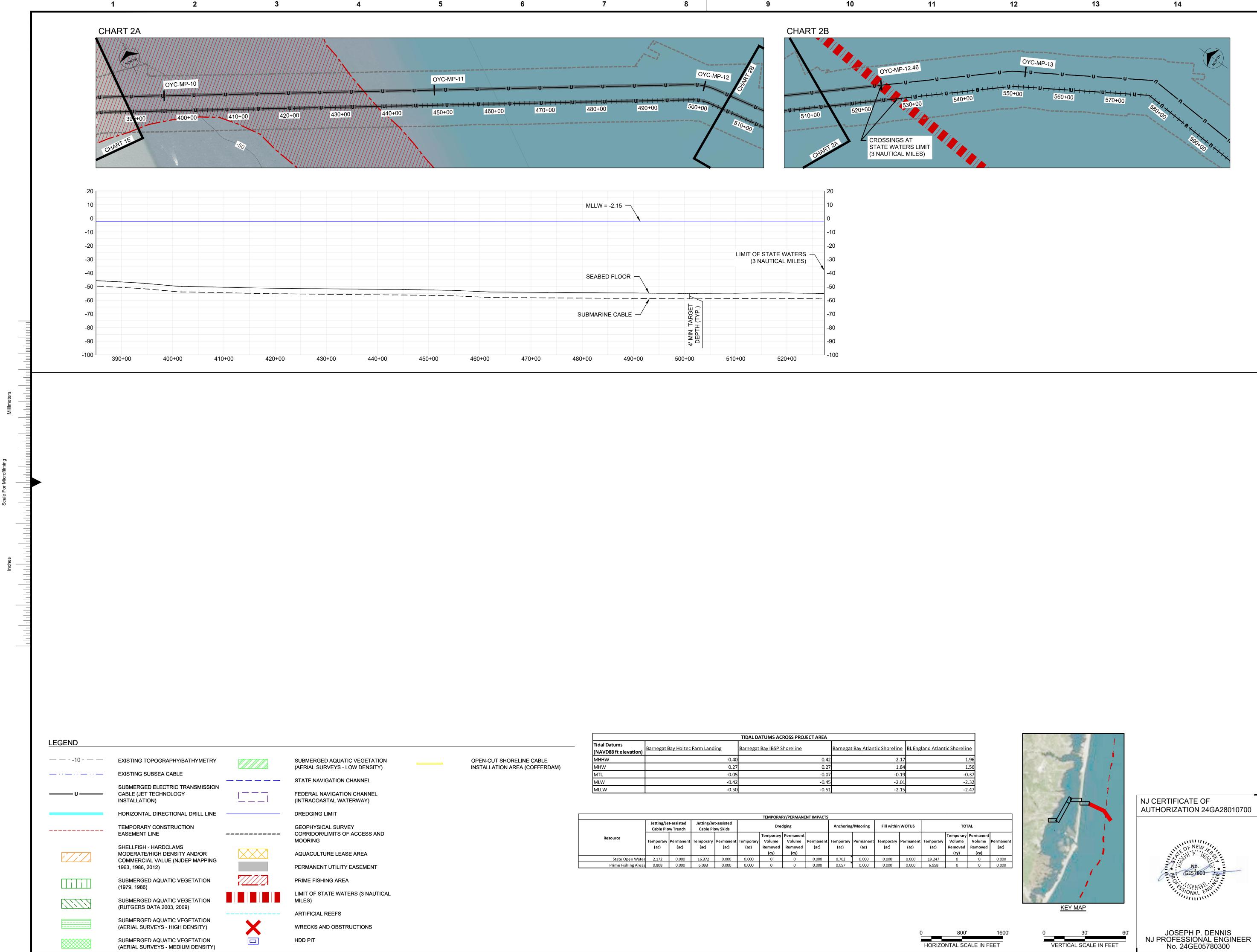
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T 1C						
	no. A	date	by JW	ckd		в
	<u>NO</u> 1.				IAD83 NEW JERSEY STATE	
	2.	PLANE, U VERTICA NGVD29	L DATA		ERSION OYSTER CREEK:	
			L DATA		ERSION BL ENGLAND:	С
	3.		ENSION	S ARE I	N FEET (FT) UNLESS	
	4.	ALL BAT	HYMET	RIC COI	NTOURS ARE DEPICTED IN WER LOW WATER (MLLW).	
	5.	SEE HDD	SERIE	S SHEE	TS FOR DETAILED PLAN E ROUTE.	
	6.		AILS O	N WETL	AND IMPACTS PLEASE	D
	7.	THESE D	RAWIN	GS ARE	FOR DESIGN AND S ONLY AND NOT	
		LOCATIC BE COOF	N OF P RDINAT	ROPOS ED WITI	RUCTION. FINAL ED IMPROVEMENTS WILL H ENGINEER UPON	
	8.	BE PROV)F IMPA /IDED U	CTS TC	REGULATED AREAS WILL NAL DESIGN OF THE	_
	9.	THESE D	RAWIN	GS SHC	ELATED IMPROVEMENTS.	E
					OUTE. FINAL CABLE ED BY THE CONTRACTOR.	
		FC			MITTING OVAL	F
					Wind 1 project	G
	doi		IDR EL CE BC DODCI	NGINE DULEV LIFF L	ERING, INC. ARD, SUITE 210 AKE, NJ 07677	н
	dat	4/14/	2023		detailed W. LIN	
		signed . WYNOŀ	RADI	NYK	checked J. DENNIS	
10700			AN A		CREEK PROFILE F 2)	1
-		OF			ABLE ROUTES	J
			083		RDS-PP CODE	
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HDD PIT

SUBMERGED AQUATIC VEGETATION

(AERIAL SURVEYS - MEDIUM DENSITY)

						20
		MLLW =	-2.15 —			10
						0
						-10
						-20
						TATE WATERS
		SEABED				-40
						-50
				TARGET		
				L. TAR TH (T)		-80
				4' MIN. T DEPTH		-90
50+00	470+00	480+00	490+00	500+00	510+00	-10

		TIDAL DATUMS ACROSS PROJECT AREA												
	Tidal Datums (NAVD88 ft elevation)	Barnegat Bay Holtec Farm Landing	Barnegat Bay IBSP Shoreline	Barnegat Bay Atlantic Shoreline	BL England Atlantic Shoreline									
ELINE CABLE	MHHW	0.40	0.42	2.17	1.96									
EA (COFFERDAM)	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									

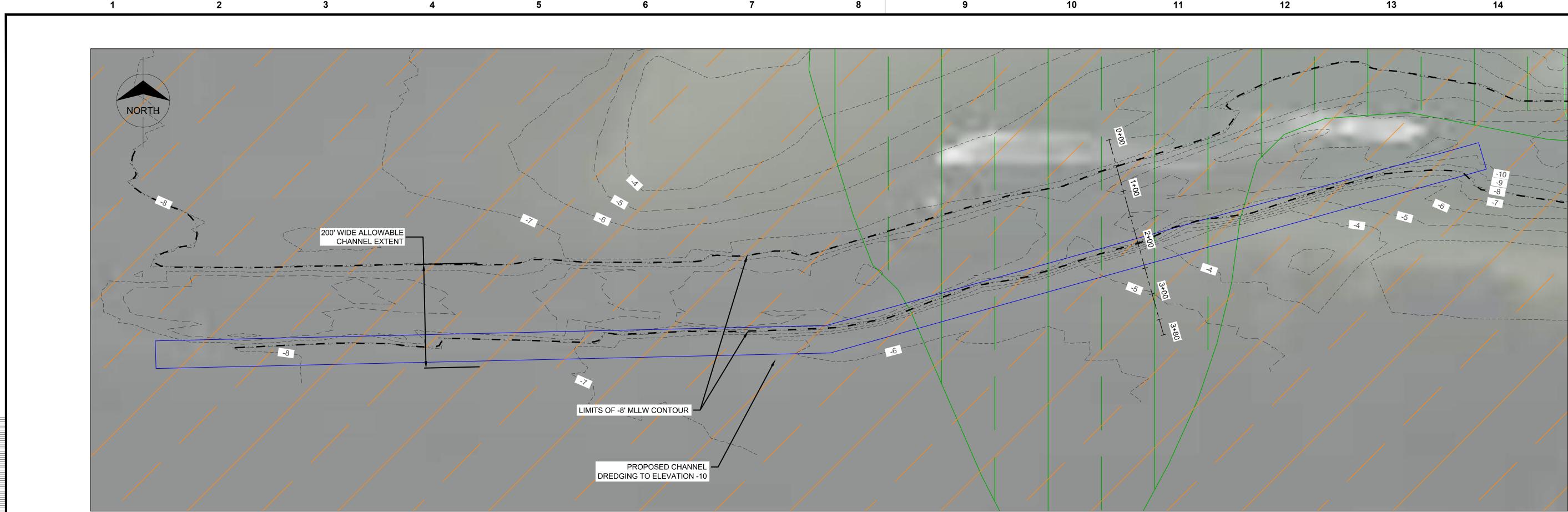
						TEMPORA	RY/PERMANE	ENT IMPACTS								
	Jetting/Je Cable Plo	et-assisted ow Trench	0.	ng/Jet-assisted Dredging		Anchoring/Mooring		Fill within WOTUS		TOTAL						
Resource	Temporary (ac)	Permanent (ac)	Temporary (ac)	Permanent (ac)	Temporary (ac)		Permanent Volume Removed (cy)		Temporary (ac)	Permanent (ac)	Temporary (ac)	Permanent (ac)	Temporary (ac)	Temporary Volume Removed (cy)	Permanent Volume Removed (cy)	Pei
State Open Water	2.172	0.000	16.372	0.000	0.000	0	0	0.000	0.702	0.000	0.000	0.000	19.247	0	0	
Prime Fishing Areas	0.808	0.000	6.093	0.000	0.000	0	0	0.000	0.057	0.000	0.000	0.000	6.958	0	0	

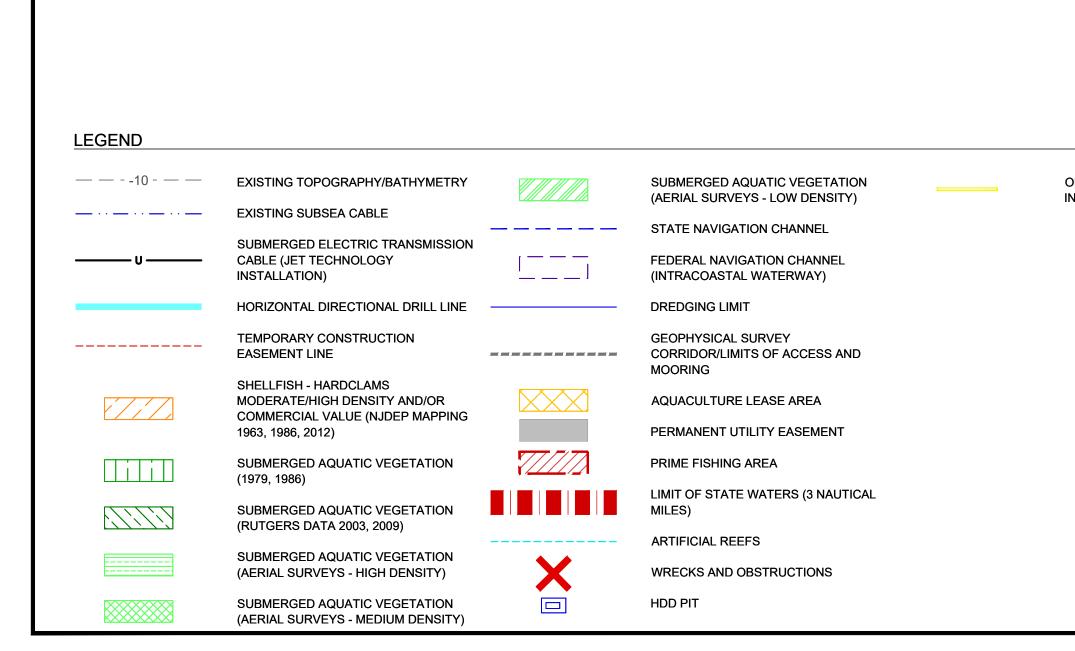
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	no. date by ckd description A 4/14/23 JW JD ISSUED FOR PERMIT NOTES: ISSUED FOR PERMIT ISSUED FOR PERMIT	В
	 HORIZONTAL DATUM: NAD83 NEW JERSEY STATE PLANE, U.S. FOOT VERTICAL DATA CONVERSION OYSTER CREEK: NGVD29 = NAVD88 + 1.335 FT VERTICAL DATA CONVERSION BL ENGLAND: NGVD29 = NAVD88 + 1.263 FT ALL DIMENSIONS ARE IN FEET (FT) UNLESS NOTED OTHERWISE. 	с
	 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 IMPACTS PLEASE SEE ONSHORE PLAN SET. THESE DRAWINGS ARE FOR DESIGN AND PERMITTING PURPOSES ONLY AND NOT INTENDED FOR CONSTRUCTION. FINAL 	D
	 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. 	E
	FOR PERMITTING APPROVAL	F
	Ocean Wind 1 An Ørsted & PSEG project	G
	HDR ENGINEERING, INC. 50 TICE BOULEVARD, SUITE 210 WOODCLIFF LAKE, NJ 07677 date 4/14/2023 designed J. WYNOHRADNYK J. DENNIS	н
	OYSTER CREEK	I
00	PLAN AND PROFILE (2 OF 2)	
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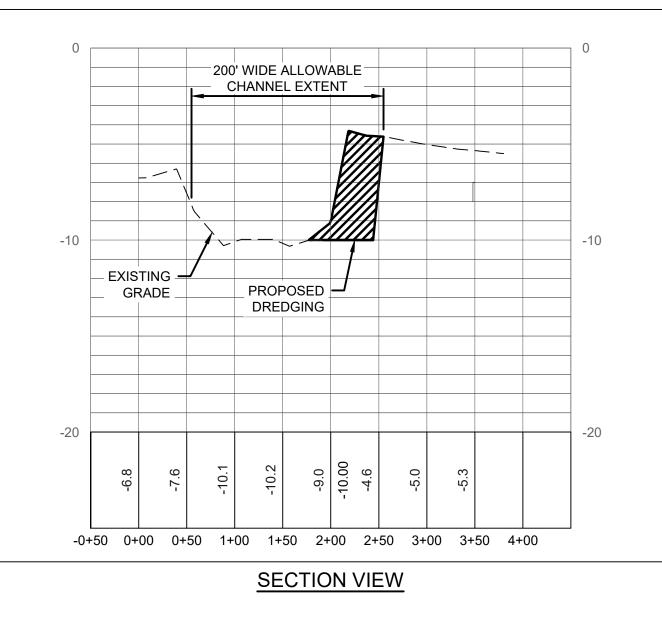
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30' 60' VERTICAL SCALE IN FEET





PLAN VIEW



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- AREA OF DREDGING IS INTENDED TO MIRROR MAINTENANCE DREDGING PROPOSED BY USACE PHILADELPHIA DISTRICT AS PART OF OYSTER CREEK FEDERAL CHANNEL MAINTENANCE DREDGING. REFER TO SOLICITATION NO. IFB W912BU-22-B-0004. USACE INTENDS TO COMPLETE FALL 2022 AND 2023.
- 2. OCEAN WIND WILL ASSESS CHANNEL CONDITIONS PRIOR TO CONSTRUCTION AND MAY REQUIRE SUBSEQUENT MAINTENANCE DREDGING FOR CONSTRUCTION VESSEL ACCESS.
- 3. MAINTENANCE DREDGING WILL BE WITHIN THE AUTHORIZED LIMITS OF THE OYSTER CREEK FEDERAL CHANNEL AS COORDINATED WITH USACE AND USCG. PER N.J.A.C. 7:7-9.6(B) MAINTENANCE DREDGING IN AREAS MAPPED AS SUBMERGED VEGETATION HABITAT IS ALLOWABLE IN PREVIOUSLY AUTHORIZED, EXISTING NAVIGATION CHANNELS MAINTAINED BY THE STATE OR FEDERAL GOVERNMENT PROVIDED THAT THERE IS NO PRACTICABLE OR FEASIBLE ALTERNATIVE TO AVOID THE VEGETATION AND THAT IMPACTS TO THE HABITAT AREA ARE MINIMIZED TO THE MAXIMUM EXTENT PRACTICABLE.

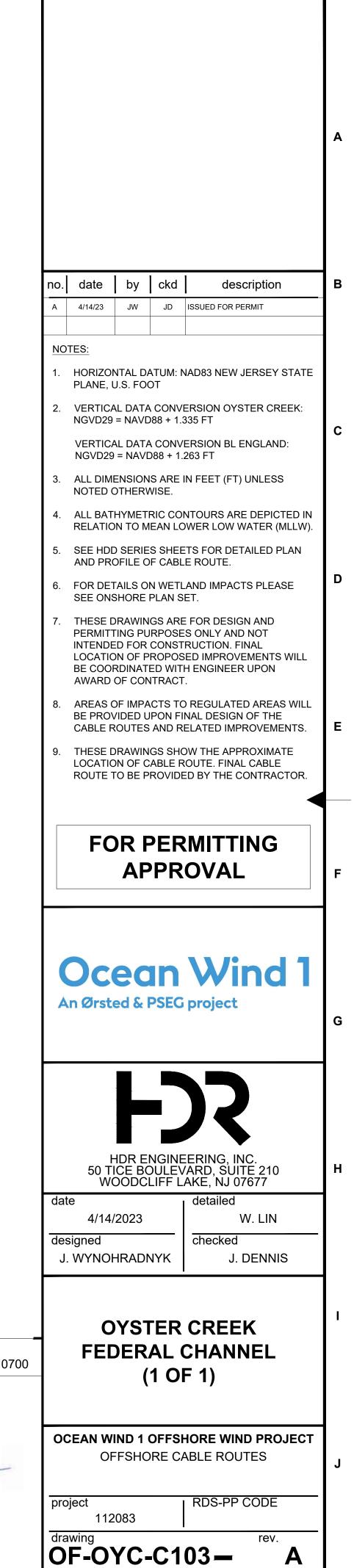
		TIDAL DATUMS ACROSS PROJECT AREA	TIDAL DATUMS ACROSS PROJECT AREA													
Tidal Datums (NAVD88 ft elevation)	Barnegat Bay Holtec Farm Landing	Barnegat Bay IBSP Shoreline	Barnegat Bay Atlantic Shoreline	BL England Atlantic Shoreline												
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MLLW	-0.50	-0.51	-2.15	-2.4												

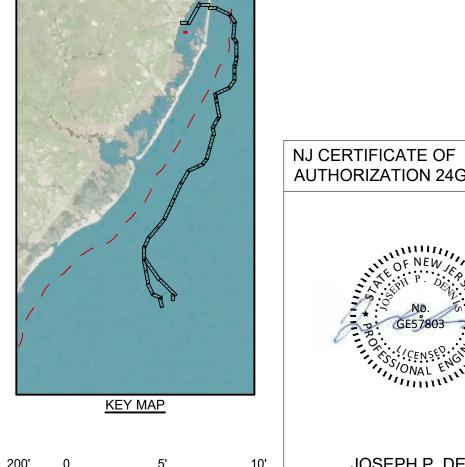
	TEMPORARY/PERMANENT IMPACTS															
	Jetting/Jet-assisted Jetting/Jet-assisted Cable Plow Trench Cable Plow Skids		Dredging			Anchoring/Mooring		Fill within WOTUS		TOTAL						
Resource	Temporary (ac)	Permanent (ac)	Temporary (ac)	Permanent (ac)		Permanent Volume Removed		Permanent (ac)	Temporary (ac)	Permanent (ac)	Temporary (ac)	Permanent (ac)	Temporary	Temporary Volume Removed		Permanent (ac)
	• •	, ,		. ,		(cy)	(cy)					. ,		(cy)	(cy)	. ,
State Open Water	0.000	0.000	0.000	0.000	0.000	0	18,030	3.017	0.000	0.000	0.000	0.000	0.000	0	18,030	3.017
Submerged Aquatic Vegetation	0.000	0.000	0.000	0.000	0.000	0	4,531	0.758	0.000	0.000	0.000	0.000	0.000	0	4,531	0.758
Shellfish Habitat	0.000	0.000	0.000	0.000	0.000	0	18,030	3.017	0.000	0.000	0.000	0.000	0.000	0	18,030	3.017
Note: Maintenance dredging of the e	Note: Maintenance dredging of the existing, authorized Oyster Creek Federal navigation channel is acceptable within Mapped Submerged Vegetation Habitat under NJ Coastal Zone Management Rules N.J.A.C. 77:-9.6 (b)3.															

OPEN-CUT SHORELINE CABLE INSTALLATION AREA (COFFERDAM

100' HORIZONTAL SCALE IN FEET

12 13 14





VERTICAL SCALE IN FEET

10'

AUTHORIZATION 24GA28010700



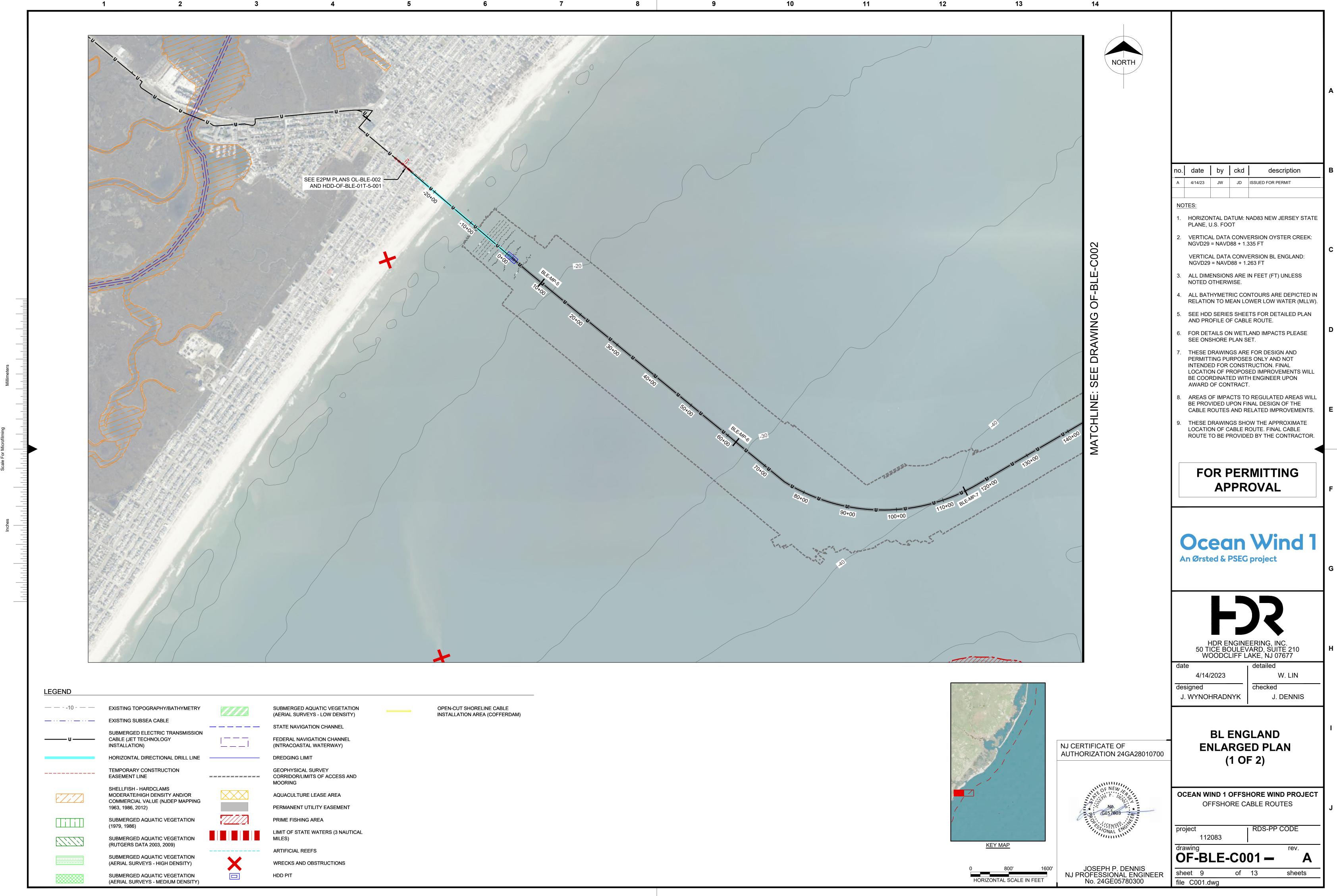
JOSEPH P. DENNIS NJ PROFESSIONAL ENGINEER No. 24GE05780300

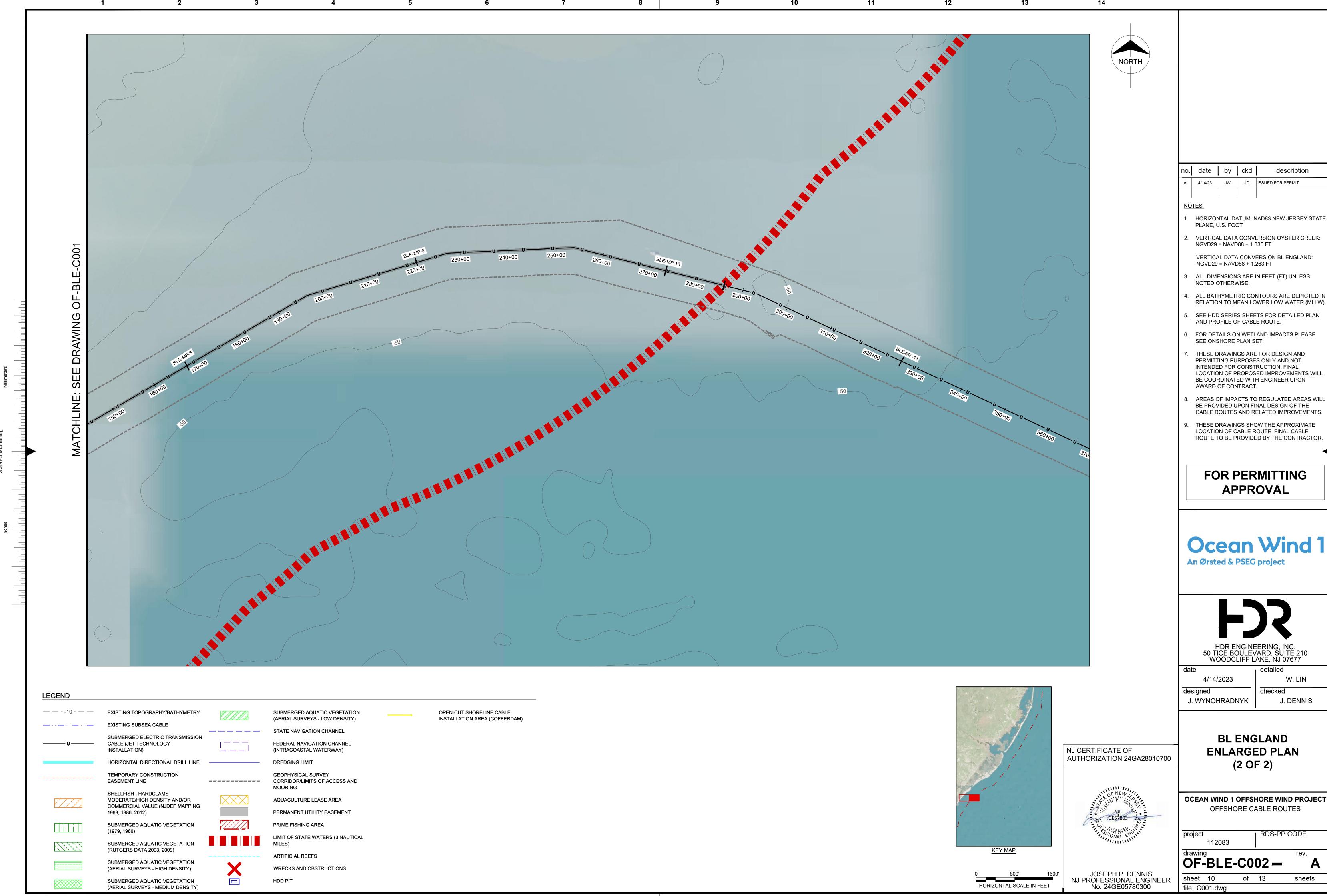
sheet 8

file C103.dwg

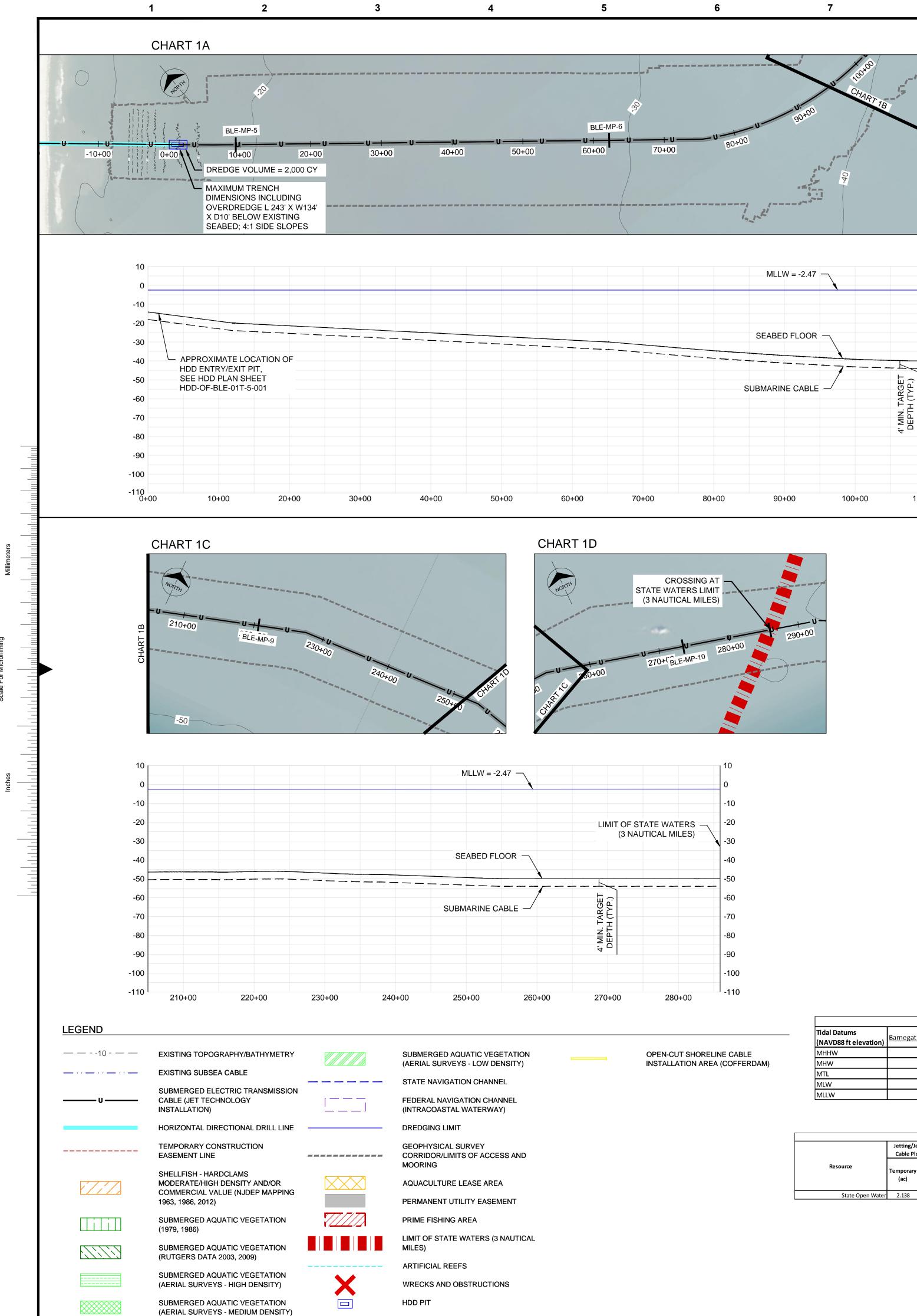
of 13

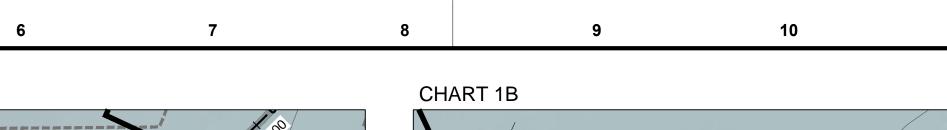
sheets

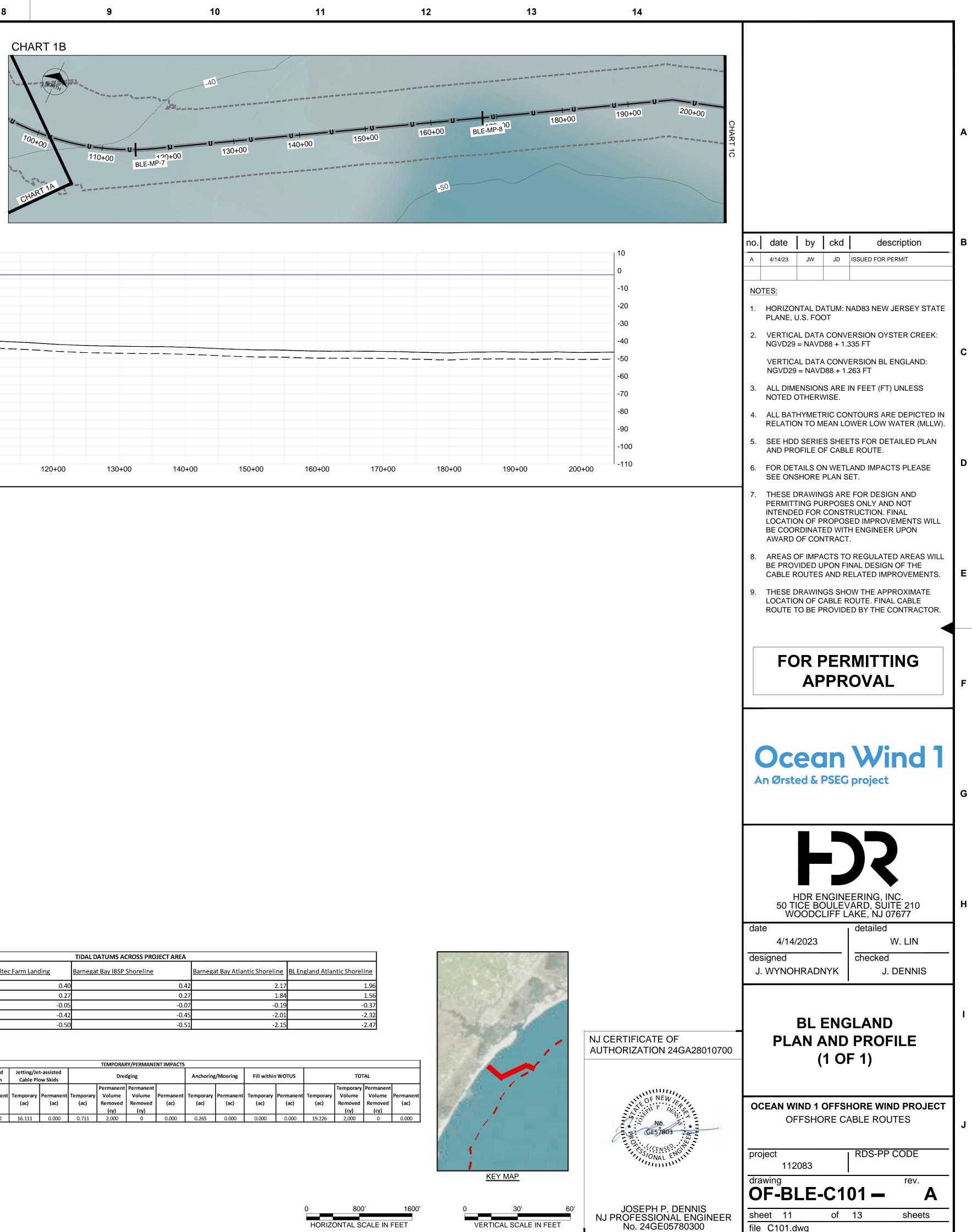




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VERTICAL SCALE IN FEET

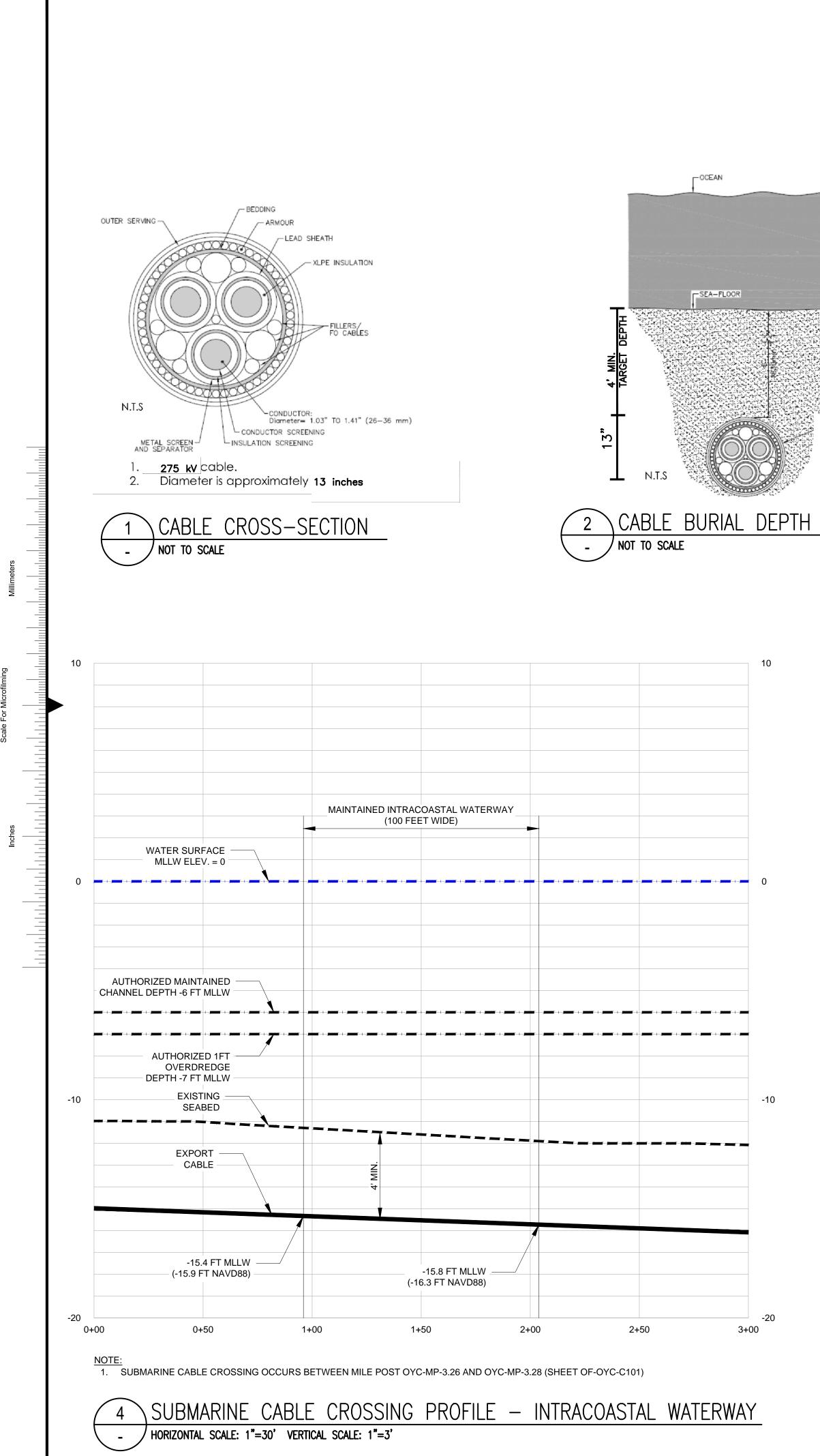
file C101.dwg

80+00	90+00	100+00	110	+00	120 [.]	+00	130+0	0	140+00	15	0+00	160	+00	170+
			4											
			ШМ											
			E E E											
	SUBMARINE CABL	E _/	4' MIN. TARGET DEPTH (TYP.)											
		1	⊢			— — — .								
						·								
/	······································													
	SEABED FLOOF	<												
	MLLW = -2.47	′ —												

Barnegat Bay Holtec Farm Landing

_																	
		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 (ac)	Permanent (ac)	Temporary (ac)	Permanent (ac)		Temporary Volume Removed	Permanent Volume Removed	Perr
							(cy)	(cy)							(cy)	(cy)	
	State Open Water	2.138	0.000	16.111	0.000	0.711	2,000	0	0.000	0.265	0.000	0.000	0.000	19.226	2,000	0	(

HORIZONTAL SCALE IN FEET



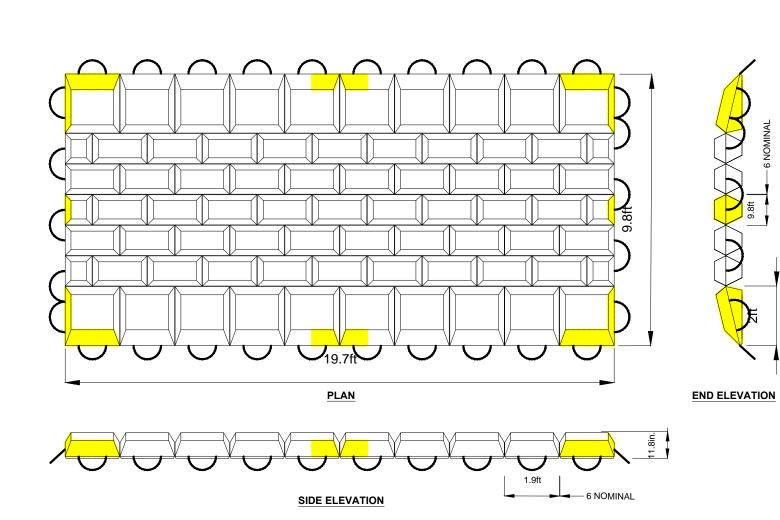
2

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TYPICAL CABLE PROTECTION NOTES:

- 1. ROPE TO BE 8.5 inch Ø POLYPROPYLENE COMPLYING WITH EN.ISO.1346:2012, AND UV
- STABILIZED AGAINST SOLAR DEGRADATION, MBL 9700lbs. 2. MATTRESS LIFT SAFETY RATIO = 8.7 : 1 (LIFTING ON 19.7ft SIDES USING 8No. LIFT POINTS
- PER SIDE).
- CONCRETE IAW BS 8500-1-2015 & BS 8500-2-2015

9

- CONCRETE DENSITY TO BE NORMAL WEIGHT 150lbs / ft³ APPROXIMATELY. MATTRESS WEIGHT IN AIR = 17902lbs APPROXIMATELY. MATTRESS WEIGHT IN WATER = 10252lbs APPROXIMATELY. CORNER BLOCKS AND CENTER LINE END BLOCKS TO BE PAINTED YELLOW.



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		Α							
	no. date by ckd description A 4/14/23 JW JD ISSUED FOR PERMIT	В							
	NOTES:								
	1. HORIZONTAL DATUM: NAD83 NEW JERSEY STATE PLANE, U.S. FOOT								
	2. VERTICAL DATA CONVERSION OYSTER CREEK:								
	NGVD29 = NAVD88 + 1.335 FT	с							
	VERTICAL DATA CONVERSION BL ENGLAND: NGVD29 = NAVD88 + 1.263 FT								
	3. ALL DIMENSIONS ARE IN FEET (FT) UNLESS NOTED OTHERWISE.								
	4. ALL BATHYMETRIC CONTOURS ARE DEPICTED IN								
	RELATION TO MEAN LOWER LOW WATER (MLLW).								
	5. SEE HDD SERIES SHEETS FOR DETAILED PLAN AND PROFILE OF CABLE ROUTE.								
	6. FOR DETAILS ON WETLAND IMPACTS PLEASE SEE ONSHORE PLAN SET.	D							
	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	E							
	CABLE ROUTES AND RELATED IMPROVEMENTS.9. THESE DRAWINGS SHOW THE APPROXIMATE								
	LOCATION OF CABLE ROUTE. FINAL CABLE ROUTE TO BE PROVIDED BY THE CONTRACTOR.								
	FOR PERMITTING								
	APPROVAL	F							
	Ocean Wind 1								
	An Ørsted & PSEG project								
		G							
	HDR ENGINEERING, INC. 50 TICE BOULEVARD, SUITE 210 WOODCLIFF LAKE, NJ 07677	н							
	WOODCLIFF LAKE, NJ 07677 date detailed								
	4/14/2023 W. LIN								
	designed checked								
	J. WYNOHRADNYK J. DENNIS								
		'							
	SITE DETAILS								
AUTHORIZATION 24GA28010700	(1 OF 2)								
OF NEW JEAN		1							
NO. NO.	OCEAN WIND 1 OFFSHORE WIND PROJECT OFFSHORE CABLE ROUTES	.							
GE57803									
S/ONAL ENGLY	project RDS-PP CODE								
	112083drawingrev.								
	C501 – A								
JOSEPH P. DENNIS NJ PROFESSIONAL ENGINEER No. 24GE05780300	sheet 12 of 13 sheets								
No. 24GE05780300	file C501.dwg	1							

