The latest revision date of Appendix E to the Empire Offshore Wind COP is July 2023. This appendix was not revised as part of the November 2023 submittal; therefore, the date on the Appendix E cover sheet remains as July 2023.

Empire Offshore Wind: Empire Wind Project (EW 1 and EW 2) Construction and Operations Plan

APPENDIX

Conceptual Project Design Drawings

> Prepared for EQUINOR



JULY 2023

ATTACHMENTS

- Attachment E-1 Offshore Conceptual Drawings
- Attachment E-2 Sea-to-Shore Conceptual Drawings
- Attachment E-3 Onshore Cable Routes Conceptual Drawings
- Attachment E-4 Onshore Conceptual Drawings

ATTACHMENT E-1 OFFSHORE CONCEPTUAL DRAWINGS

- Typical Offshore Substation
- Profile View of Piled Jacket Lift-Off
- Profile View of Piled Jacket Set-Down
- Profile View of OSS Topside Lift-Off
- Profile View of OSS Topside Set-Down
- Plan and Profile View of Heavy Transfer Vessel Deck Layout
- Plan View of SSCV Thialf Deck Layout
- Plan View of Monopile Lift-Off
- Stern View of Monopile Lift-Off
- Monopile Upending Sequence (1-4)
- Monopile Installation Sequence (1-3)
- Pile Driving Sequence (1-4)
- Profile View of Transition Piece Lift-Off
- Profile View of Transition Piece Installation
- Profile View of Anode Cage Lift-Off
- Profile View of Anode Cage Installation
- Anode Cage Installation Sequence
- Profile View of Access to Top of Transition Piece
- Cross Section of Interarray Cable
- Cross Section of Submarine Export Cable
- Cross Section of Buried Submarine Export Cable



66 kV INTER ARRAY CABLE DESIGN



CONCEPTUAL/PRELIMINARY NOT FOR CONSTRUCTION





*Note: Target burial depth will be 15 ft (4.7 m) below the current (and future) authorized depth or depth of existing seabed (whichever is deeper) in federally maintained navigation features (e.g., anchorages and shipping channels).

CONCEPTUAL/PRELIMINARY NOT FOR CONSTRUCTION

ATTACHMENT E-2 SEA-TO-SHORE CONCEPTUAL DRAWINGS

- Typical HDD Profile
- Typical HDD Landfall Manhole
- EW 1 Landfall (Plan)
- EW 1 Landfall (Profile)
- Example of HDD Landfall (EW 2; Landfall A)
- Example of Direct Pipe Landfall (EW 2; Landfall C)



1. DETAILS OF DESIGN WILL BE PROVIDED IN DETAIL DESIGN STAGE.

2. THE TRENCHLESS EXCAVATION TYPE SHALL HAVE TO BE DETERMINED BASED ON THE SOIL CHARACTERISTICS AND THE LOAD APPLIED TO THE SURFACE.

3. ALL EXISTING UNDERGROUND UTILITIES MUST BE LOCATED TO DETERMINE THE CORRECT ALIGNMENT OF THE TRENCHLESS EXCAVATION.

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Client EMPIRE OFFSHORE WIND LLC.

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HDD INSTALLATION 1

PROFILE VIEW HORZ.SCALE: 1" = 100'

VERT. SCALE: 1" = 50'

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7. CONVERSION FOR VERTICAL DATUM IS NAVD88 + 2.6' = MLLW.

8. ALL ELEVATION SHOWN IN PROFILE REPRESENT NAVD88. 9. ** BOARDWALK PILE CAP, PILES AND WAVE BREAK WALL DIMENSIONS AND DEPTHS TAKEN FROM

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PROJECT TITLED "RECONSTRUCTION OF LONG BEACH BOARDWALK", DATED MAY 8, 2013, DRAWING

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EMPIRE OFFSHORE WIND LLC. **EMPIRE WIND 2 PROJECT** LANDFALL A - HDD INSTALLATION 1 NASSAU COUNTY, NEW YORK **ISSUED FOR COP**

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VERTICAL SCALE: 1" = 50'

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HORIZONTAL SCALE: 1" = 100'

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10. DRAWING IS FOR PERMITTING PURPOSES ONLY, NOT FOR CONSTRUCTION.

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TRENCHLESS INSTALLATION - PLAN VIEW HORIZONTAL SCALE: 1" = 200'

750m LENGTH DIRECT PIPE - PROFILE VIEW (TRENCHLESS INSTALLATION 2) VERTICAL SCALE: 1" = 50'



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- ENTRY LOCATION ENTRY LOCATION - ENTRY LOCATION PRELIMINARY WORKSPACE O BE FINALIZED DURING DETAILED DESIGN

ATTACHMENT E-3 ONSHORE CABLE ROUTES CONCEPTUAL DRAWINGS

- EW 1 Onshore Interconnection Cable: Proposed Routing Alternative
- EW 2 Onshore Export Cable: Proposed Routing Alternatives



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FOR INFORMATION PURPOSES ONLY PRELIMINARY NOT FOR CONSTRUCTION NOTE: ALL PROPOSED PROJECT COMPONENTS ARE CONCEPTUAL AND WILL NEED TO BE DESIGNED FOLLOWING APPROPRIATE SURVEYS AND STAKEHOLDER OUTREACH.		
O JOINTING BAY LB-A REYNOLDS CHANNEL LANDFALL SITE Image: Crossing in the system of the	EMPIRE OFFSHORE WIND LLC. EMPIRE WIND 2 ONSHORE ROUTING MAPBOOK NASSAU COUNTY, NEW YORK	$\frac{N}{S} E$ BSOLUTE SCALE: 1:6,000 EFERENCE SCALE:
MAPS COMPILED UTILIZING ESRI BASEMAP AERIAL IMAGERY (2021)	500 250 0 500 1,000 1	IN = 500 FT











ATTACHMENT E-4 ONSHORE CONCEPTUAL DRAWINGS

- Typical Conduit Section (2 Circuits)
- Typical Flat Configuration Conduit Section (2 Circuits)
- Typical Excavation Details
- Typical Duct Bank and Manhole Connection
- Typical Cable Vault (3 Circuits, 1 Circuit)
- Typical Link Box 48x30x18 Handhole, Auxiliary Pit (3 Circuits)
- Typical Construction Configuration for Road Shoulder
- Typical Crossing Road Bore
- Typical HDD Layout Large Rig Setup 200' X 200' Workspace
- Typical Cofferdam
- Typical HDD Entry/Exit
- Example of HDD Cable Route Crossing (EW 2; Reynolds Channel)
- Example of Cable Bridge Crossing (EW 2; Barnums Channel)







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А		STAE S WARNING TAPE CONCRETE ENCASED DUCT BANK OPEN EX	BLE OIL OOL VARIES (TYP. 5'-0") DEPTH	∮ <u>АМ (ТҮР.)</u>		
В		GRADE LEVEL STABLE SOIL WARNIN TAP CONCRET ENCASED DUC BANI OPEN EXC	IG FT K VARIES CAVATION UP TO 6098M (TYP. 20'-0") DEPTH	м (ТҮР.)		
С		LOOSE/S	SOFT SOIL VARIES			
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NOTES:

- 1. EXCAVATION WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS.
- 2. NEVER ENTER A TRENCH WITH STRAIGHT UNSHORED SIDES THAT IS GREATER THAN 5'-0" DEEP.
- 3. NO ENTRANCE GREATER THAN 4'-0" UNLESS A COMPETENT PERSON HAS DESIGNED OR APPROVED THE TRENCH.
- 4. NO SURCHARGE LOADS ARE ALLOWED TO PLACE WITHIN VICINITY OF THE EDGE OF THE TRENCH (TYP. 2'-0").
- 5. NO SEEPAGE AND PONDING ALLOWED IN THE TRENCH.
- 6. THE UNDERGROUND UTILITIES MUST BE LOCATED BEFORE STARTING THE EXCAVATION WORK.
- 7. THE TYPE OF EXCAVATION WORK SHALL BE DETERMINED BASED ON THE GEOTECHNICAL INVESTIGATION REPORT.

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	PRELIMINARY DRAWING
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EXCAVATION DETAILS	equinor
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		App'd				EMPIRE WIND 2 PROJECT
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Client EMPIRE OFFSHORE WIND LLC.

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HDD CROSSING - REYNOLDS CHANNEL PLAN VIEW SCALE: 1" = 60'

NG ABANDONED IEAD H UNKNOWN)							HDD EXIT POINT @ 15° STA = 12+08 ELEV = 6.4'		
TUTURE PROPOSED RMORED SLOPE BY OTHERS)						EXISTING BL (DEPTH UN	I ILKHEAD		
			MHHW : 2.3' (NAVD88)			PROPOSED BULKHEAD TO BE INSTALLED SEAWARD OF EXISTING BULKHEAD			
	MLLW : -2.6' (NAVD88)								
	=								
						SHEET P			
					\	EL: -30			
 +FUTURE PROPOSED BULKHEAD (BY OTHERS); 						NG NE/SEABED	10'		
BOTTOM ELEV = -2	25.0	N							
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REYNOLDS CHANNEL - HDD INSTALLATION 1 PROFILE VIEW

HORZ.SCALE: 1" = 60' VERT. SCALE: 1" = 30'

NOTES:

								Designed	MDN			Eng check	MDN	
								Drawn	DOW			Coordination	KEK	
								Dwg check	KEK			Approved	MDN	
6/16/2023	JSR	RE-ISSUED FOR COP	KEK	MDN				_						
3/23/2022	DOW	RE-ISSUED FOR COP	KEK	MDN		Date		Scale at ANS		Status		Rev		Security CTD
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VERTICAL SCALE: 1" = 30'

HORIZONTAL SCALE: 1" = 60'

- 30

60

7. ALL ELEVATION SHOWN IN PROFILE REPRESENT NAVD88. 8. * PROPOSED FUTURE BULKHEAD SHOWN WAS DESIGNED BY OTHERS. MOTT MACDONALD OVERLAID ONTO PLANS, EXACT LOCATION MAY VARY. REFERENCE CRITICAL INFRASTRUCTURE FLOOD PROTECTION PROJECT – DATED SEPTEMBER 2019

Title

5. HORIZONTAL DATUM IS NAD83, NEW YORK STATE PLANE, LONG ISLAND US FOOT. VERTICAL DATUM IS NAVD1988. 6. CONVERSION FOR VERTICAL DATUM IS NAVD88 + 2.6' = MLLW.

4. BATHYMETRIC SURVEY PROVIDED BY S.T. HUDSON ENGINEERS, INC. PERFORMED BETWEEN DECEMBER 2021 AND FEBRUARY 2022.

2. PROPOSED CABLE ALIGNMENTS SHOWN MAY BE ADJUSTED DUE TO UNFORESEEN CONDITIONS. 3. THE SURVEYED CONTOURS (ONSHORE) AND IMAGERY SHOWN ARE FROM AN AERIAL FLIGHT FLOWN ON 04/23/2021 PROVIDED BY ROBINSON AERIAL.

1. LOCATION AND DEPTH OF ALL UTILITIES ARE TO BE FIELD VEF

AND DEPTH OF ALL UTILITIES ARE TO BE FIELD VERI	FIFD

