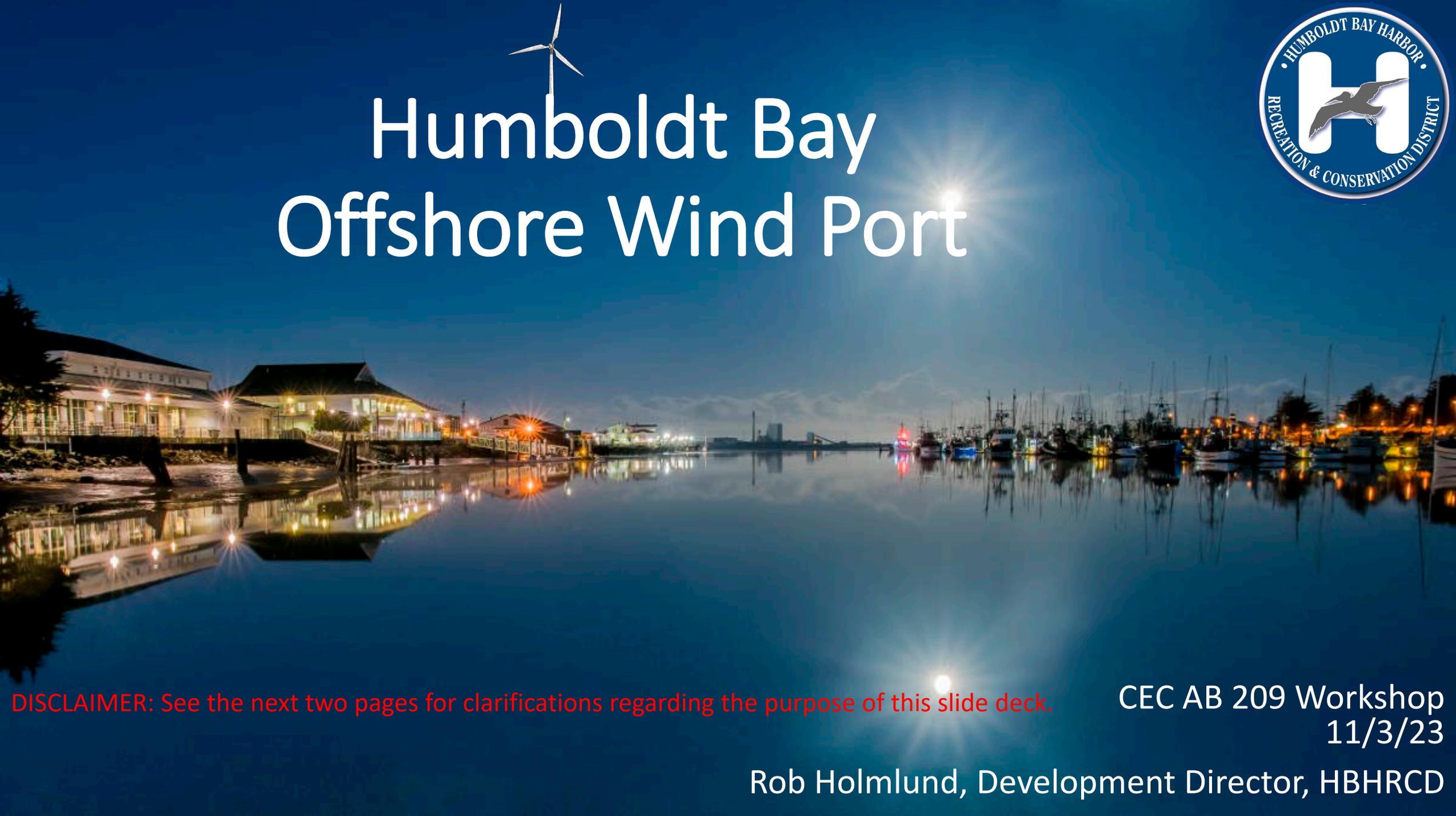


DOCKETED

Docket Number:	23-MISC-01
Project Title:	Offshore Wind Waterfront Facilities Improvement Program
TN #:	253216
Document Title:	Presentation - Recreation and Conservation District
Description:	Individual presentation by the Humboldt Bay Harbor Recreation and Conservation District at the CEC workshop on November 3, 2023.
Filer:	Eli Harland
Organization:	Humboldt Bay Harbor District
Submitter Role:	Public Agency
Submission Date:	11/17/2023 2:15:32 PM
Docketed Date:	11/17/2023



Rob Holmlund
Director of Development
Humboldt Bay Harbor
Recreation and Conservation District



Humboldt Bay Offshore Wind Port



DISCLAIMER: See the next two pages for clarifications regarding the purpose of this slide deck.

CEC AB 209 Workshop
11/3/23

Rob Holmlund, Development Director, HBHRCD

ABOUT THIS SLIDE DECK

This slide deck was presented on 11/3/22 at the CEC AB 209 Workshop in Sacramento. The meeting was also live cast through Zoom.

This PDF version of the presentation includes annotated notes that were not included in the live presentation. The annotated red text has been added to some slides to convey what the presenter verbally expressed.

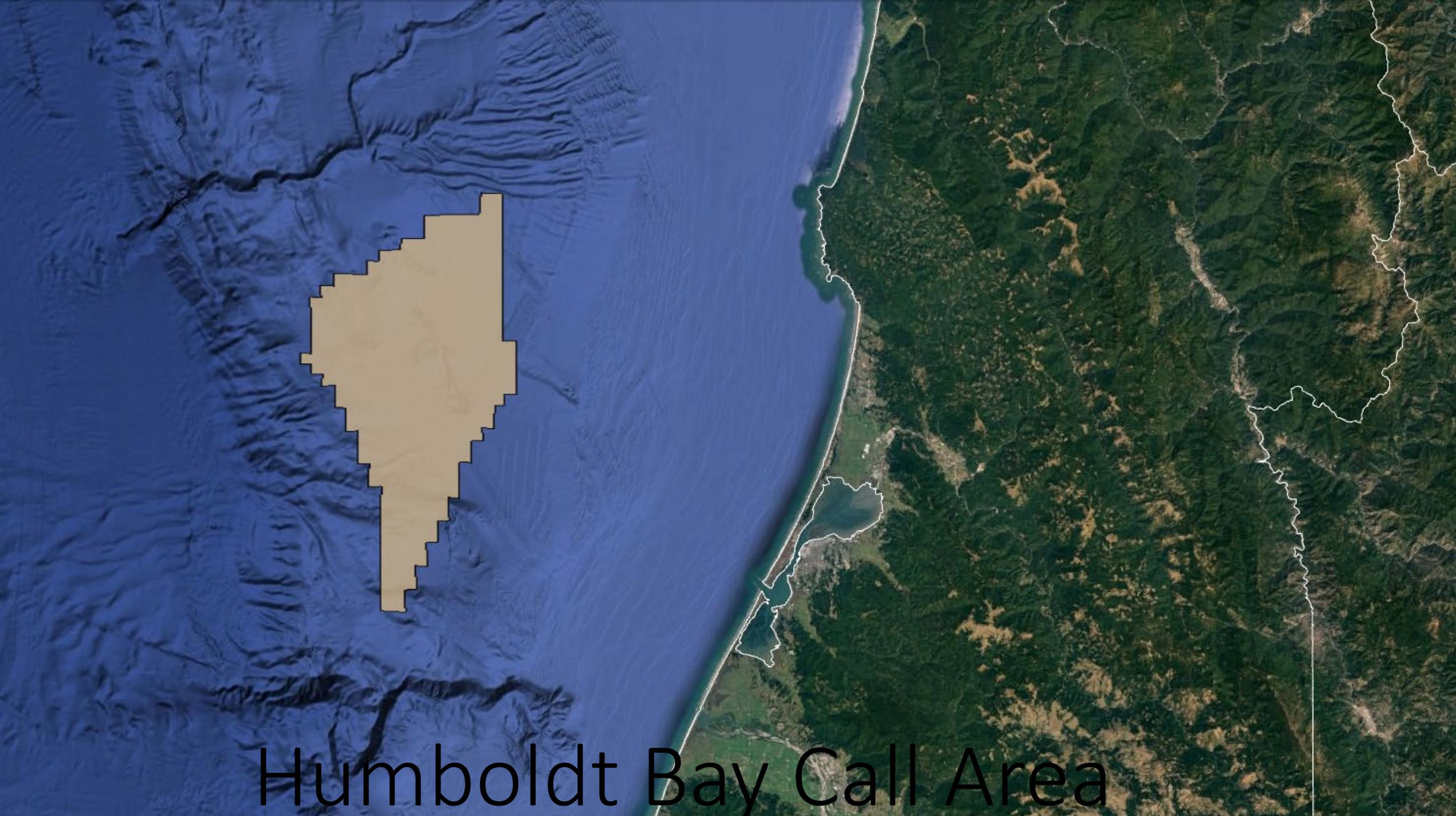
Introduction to Humboldt Bay



Humboldt Call Area

Morro Bay Call Area





Humboldt Bay Call Area





Speaker note: The next few slides provide a general introduction to the Humboldt Bay region.

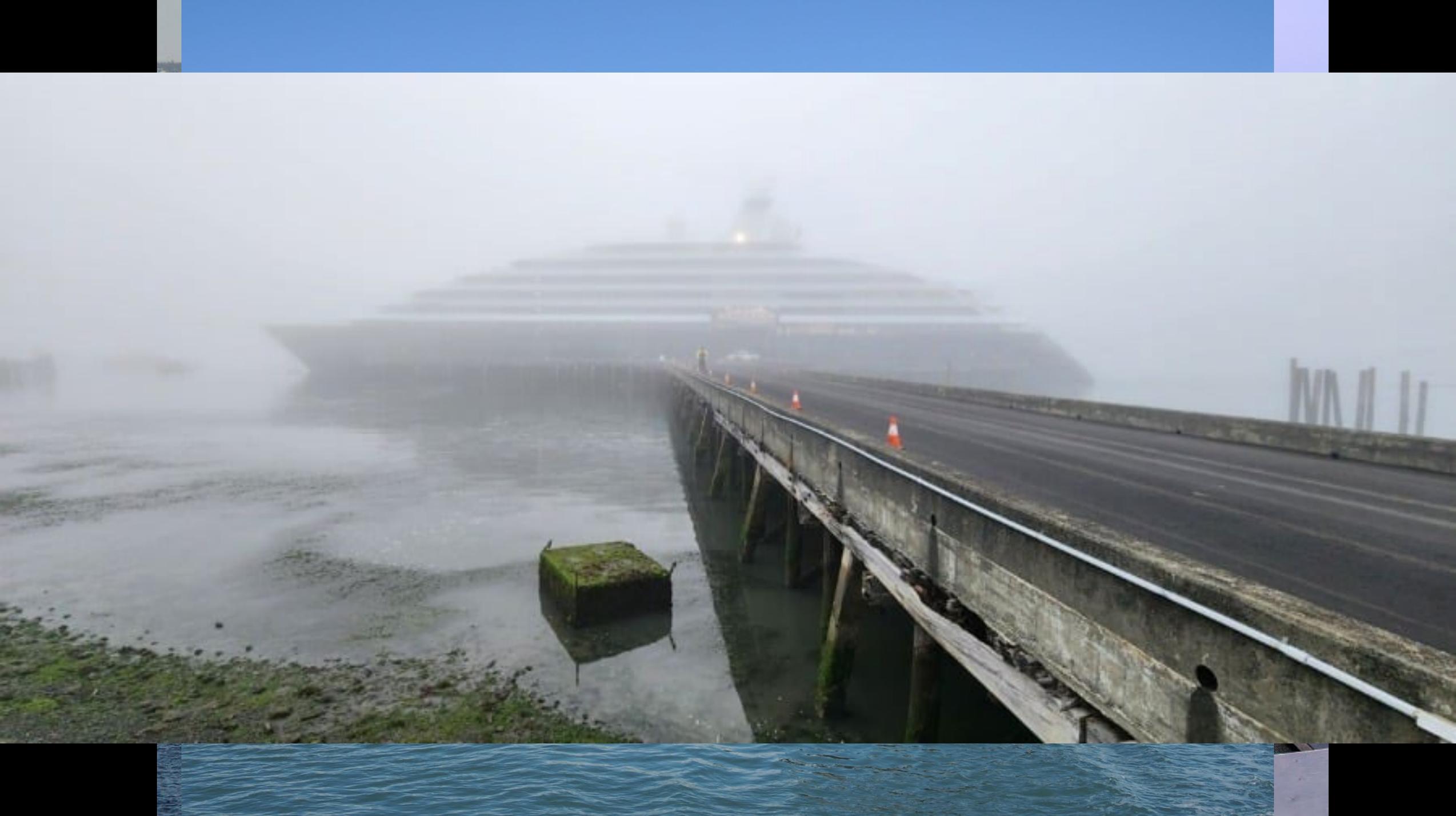


















LP Louisiana-Pacific

1990's



Sierra Pacific Industries

Simpson Pulp Mill

Louisiana Pacific Pulp Mill

Pacific Affiliates

North Coast Chip Export



HUMBOLDT COUNTY, CALIFORNIA Home Support NCJ Preview Video Best of Humboldt Cann

this week ncj daily calendar music eat + drink arts + s

Like 0 Share Tweet SAVE FAVORITE SHARE

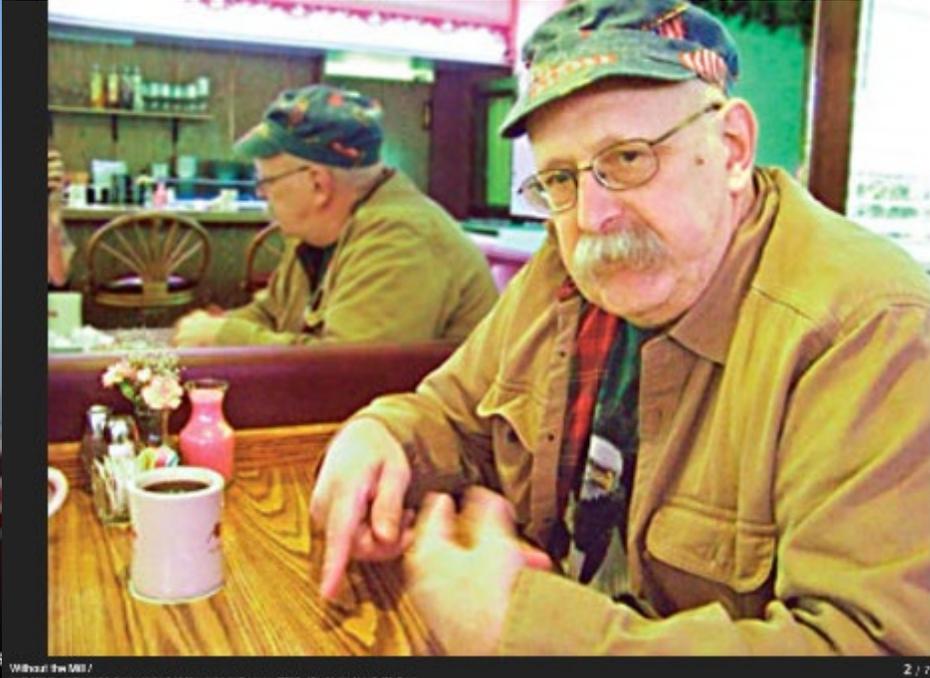
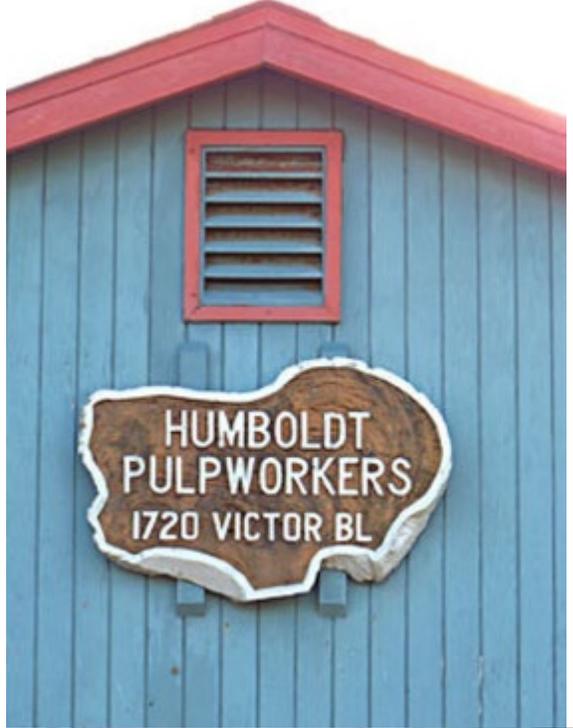
news november 06, 2008

Without the Mill

Pulp workers adjust to a world that might not need their work

BY HEIDI WALTERS

SLIDESHOW



7 slides

Walters: Nov 10/08 / 2008 Clark, left/right, has worked at the mill since 1988. Photo by Heidi Walters.

Without the Mill

Pulp workers adjust to a world that might not need their work

BY HEIDI WALTERS

SLIDESHOW



Speaker note: This is the Humboldt Bay Offshore Wind Heavy Lift Marine Terminal site in the early 1950s.

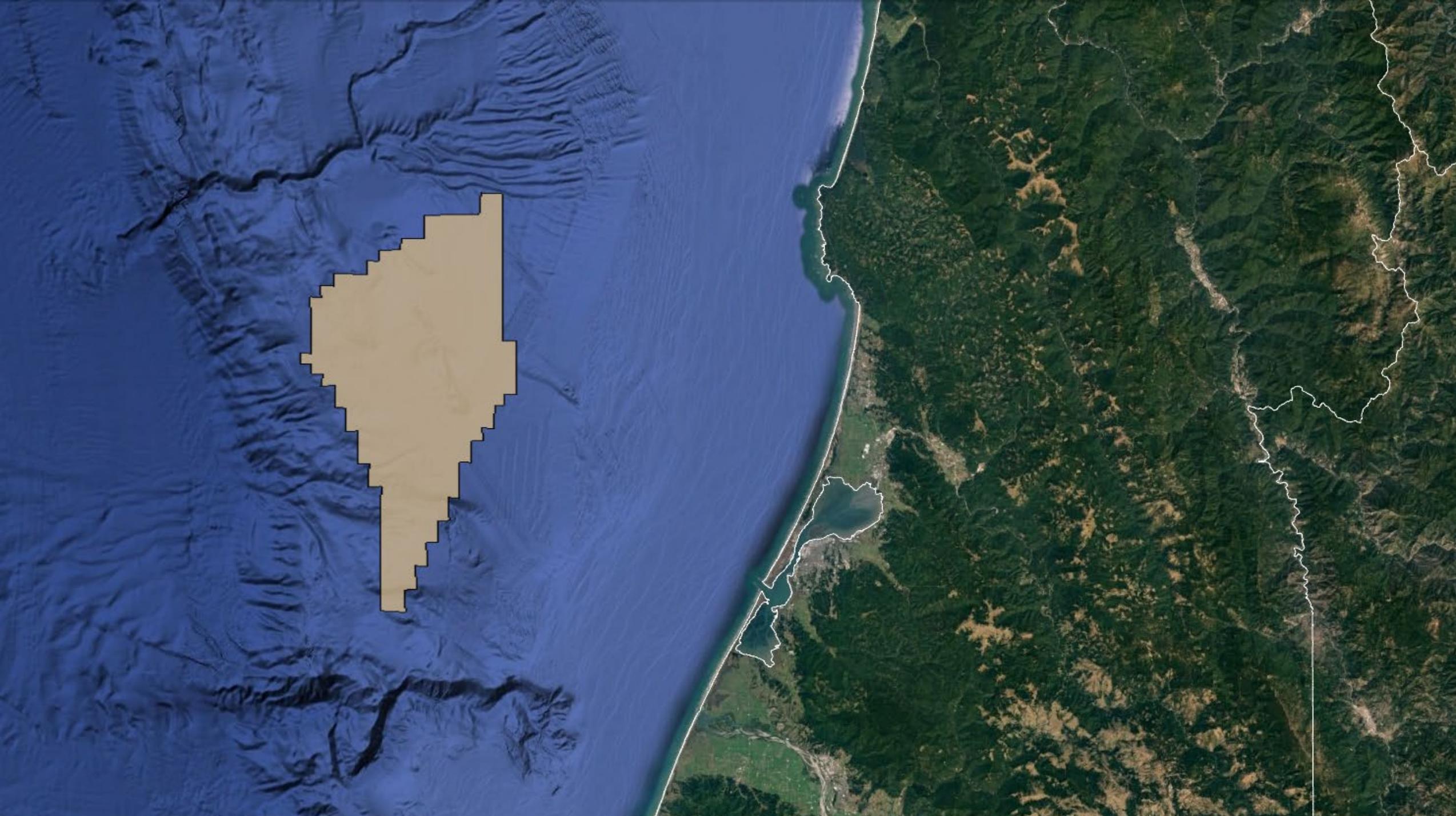












Arcata & CalPolyHumboldt

Eureka

Wiyot Tribe

College of the Redwoods



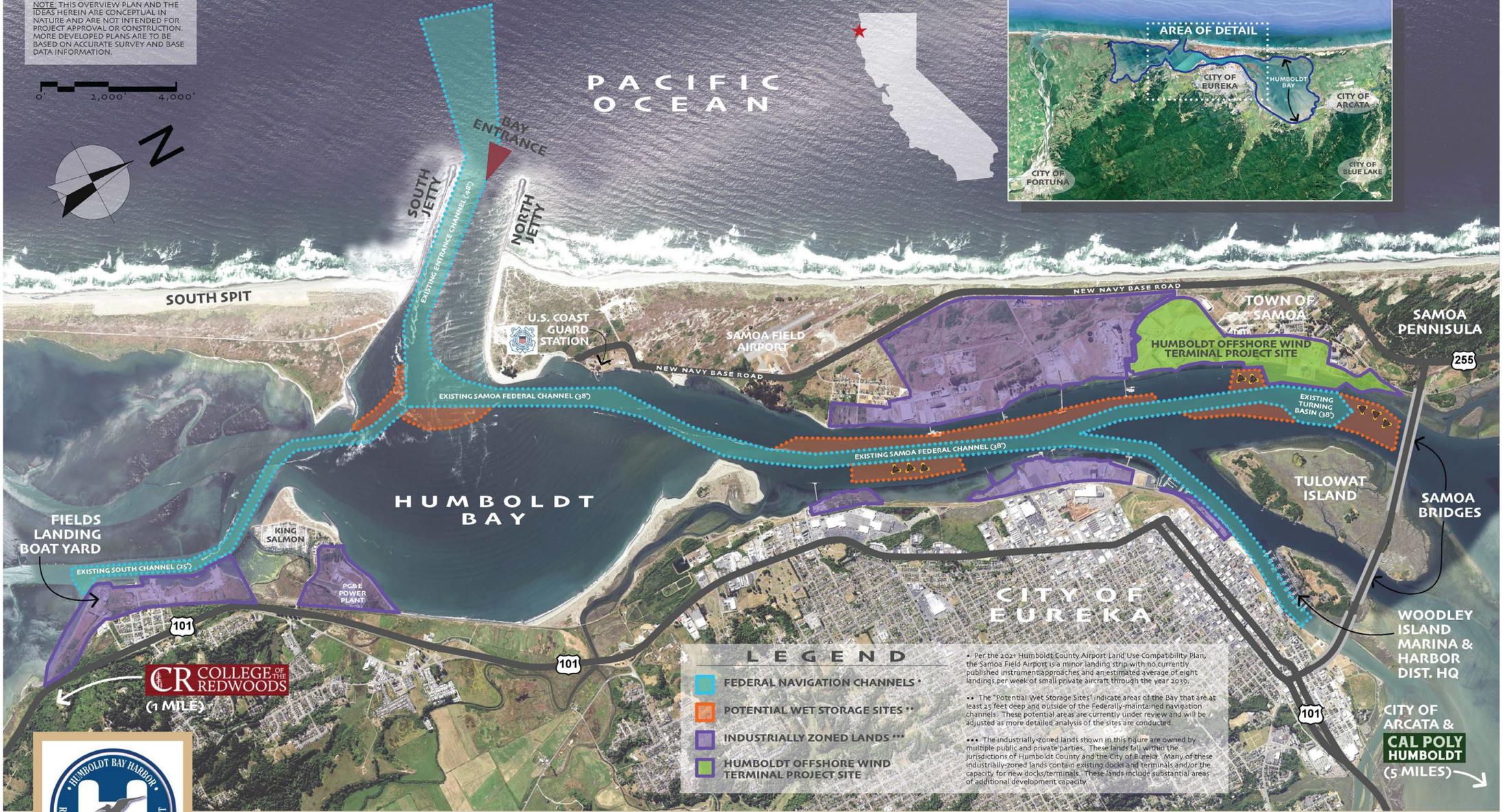
REUSE OF DOCUMENTS: This document and the ideas and design incorporated herein, as an instrument of professional service, is the property of JULIAN BERG DESIGNS and shall not be reused in whole or part for any other project without JULIAN BERG DESIGNS written authorization.

NOTE: THIS OVERVIEW PLAN AND THE IDEAS HEREIN ARE CONCEPTUAL IN NATURE AND ARE NOT INTENDED FOR PROJECT APPROVAL OR CONSTRUCTION. MORE DEVELOPED PLANS ARE TO BE BASED ON ACCURATE SURVEY AND BASE DATA INFORMATION.

0' 2,000' 4,000'



KEY MAP



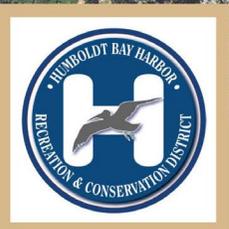
LEGEND

- FEDERAL NAVIGATION CHANNELS *
- POTENTIAL WET STORAGE SITES **
- INDUSTRIALLY ZONED LANDS ***
- HUMBOLDT OFFSHORE WIND TERMINAL PROJECT SITE

* Per the 2021 Humboldt County Airport Land Use Compatibility Plan, the Samoa Field Airport is a minor landing strip with no currently published instrument approaches and an estimated average of eight landings per week of small private aircraft through the year 2039.

** The "Potential Wet Storage Sites" indicate areas of the Bay that are at least 25 feet deep and outside of the Federally-maintained navigation channels. These potential areas are currently under review and will be adjusted as more detailed analysis of the sites are conducted.

*** The industrially-zoned lands shown in this figure are owned by multiple public and private parties. These lands fall within the jurisdictions of Humboldt County and the City of Eureka. Many of these industrially-zoned lands contain existing docks and terminals and/or the capacity for new docks/terminals. These lands include substantial areas of additional development capacity.

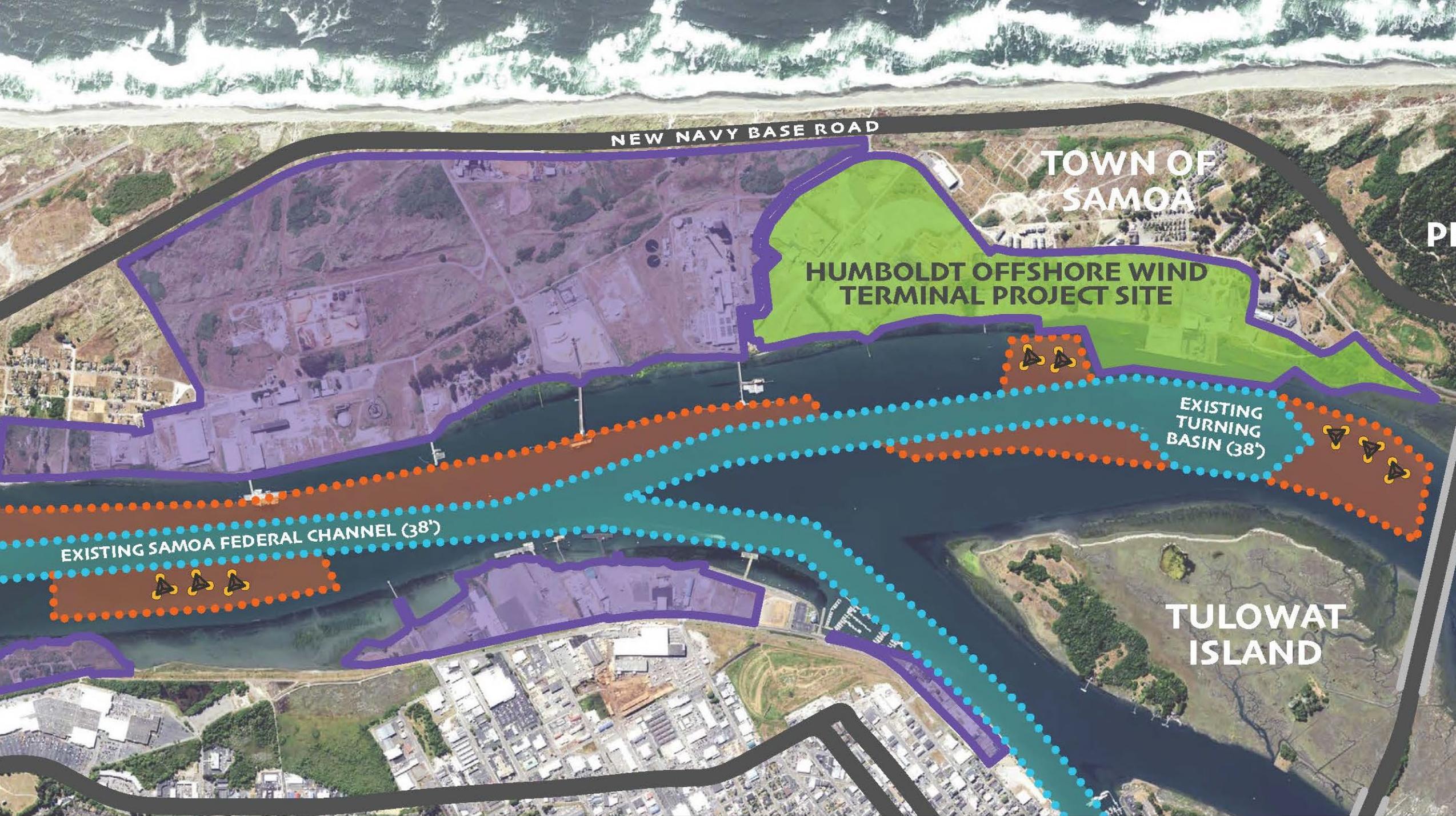


HUMBOLDT BAY OFFSHORE WIND & HEAVY LIFT MULTIPURPOSE MARINE TERMINAL OVERALL BAY VIEW

JULIAN BERG DESIGNS
ARCHITECTURE & PLANNING

julianbergdesigns.com
707 • 407 • 8870

6.5.22



NEW NAVY BASE ROAD

TOWN OF SAMOA

HUMBOLDT OFFSHORE WIND TERMINAL PROJECT SITE

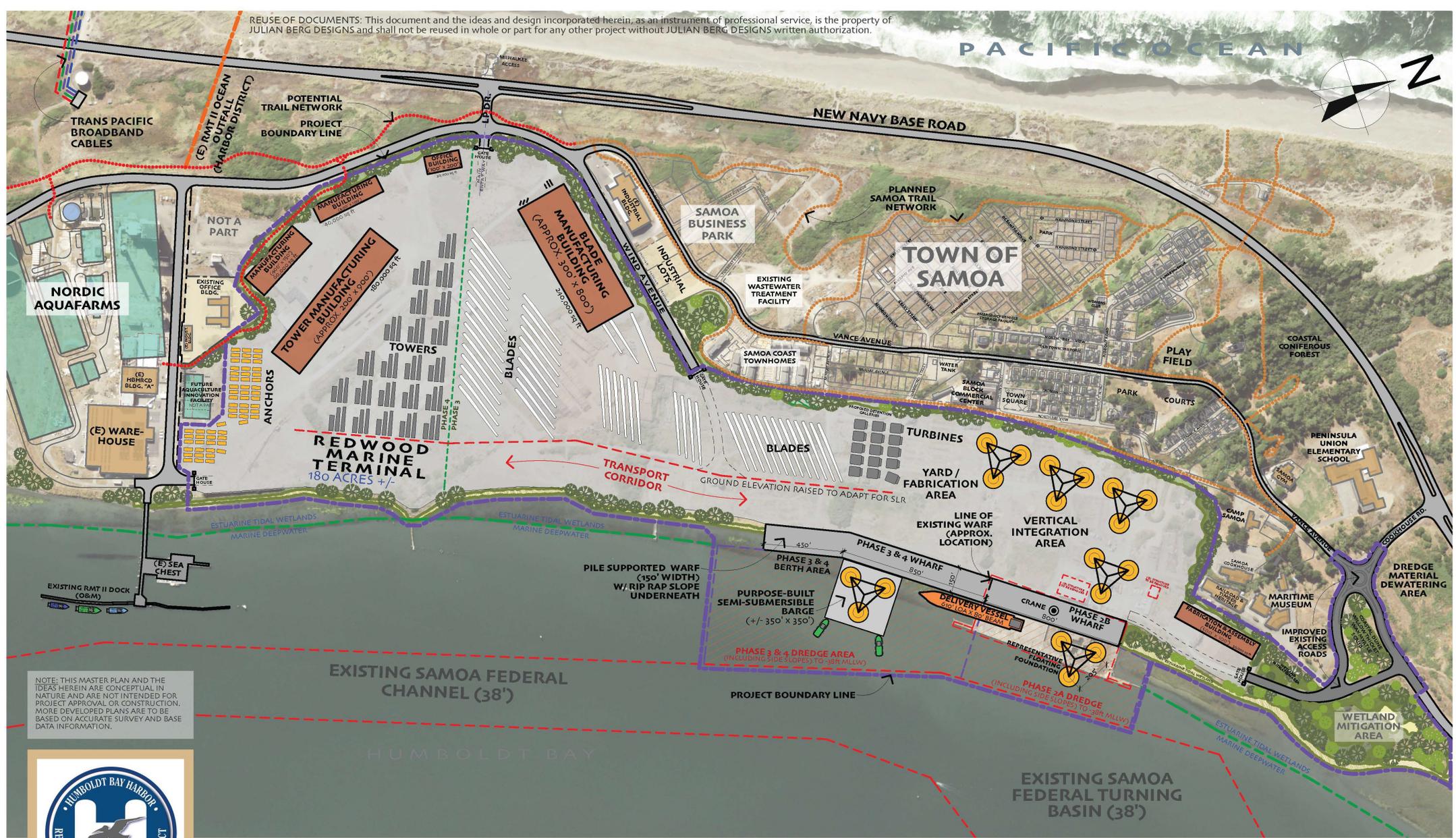
EXISTING SAMOA FEDERAL CHANNEL (38')

EXISTING TURNING BASIN (38')

TULOWAT ISLAND

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PACIFIC OCEAN



NOTE: THIS MASTER PLAN AND THE IDEAS HEREIN ARE CONCEPTUAL IN NATURE AND ARE NOT INTENDED FOR PROJECT APPROVAL OR CONSTRUCTION. MORE DEVELOPED PLANS ARE TO BE BASED ON ACCURATE SURVEY AND BASE DATA INFORMATION.



HUMBOLDT BAY OFFSHORE WIND & HEAVY LIFT MULTIPURPOSE MARINE TERMINAL CONCEPTUAL MASTER PLAN



JULIAN BERG DESIGNS
ARCHITECTURE & PLANNING
julianbergdsgns.com
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5-7-22

National Marine Research and Innovation Park

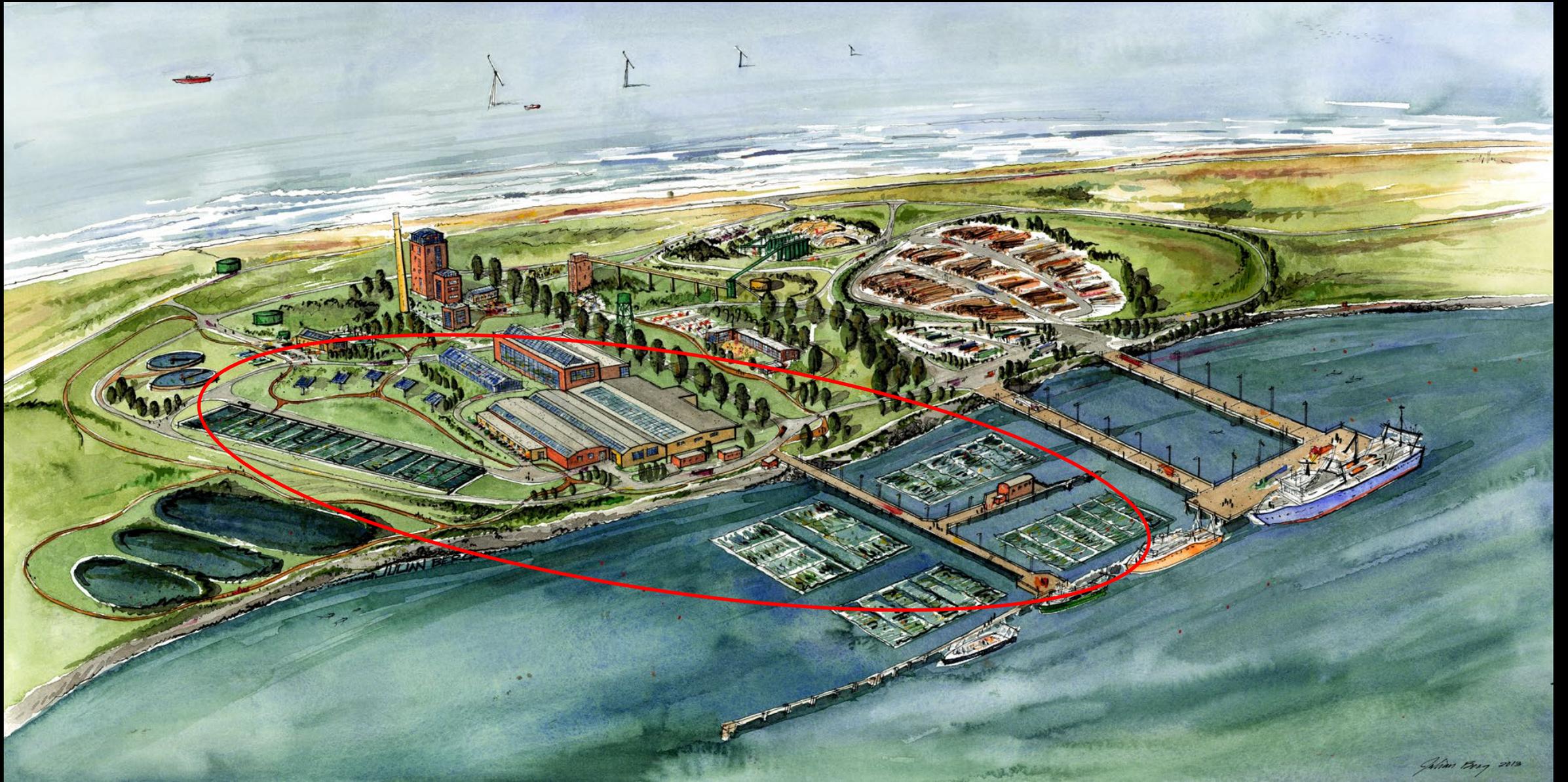


Speaker note: This is an early concept master plan for the site from around 2015.

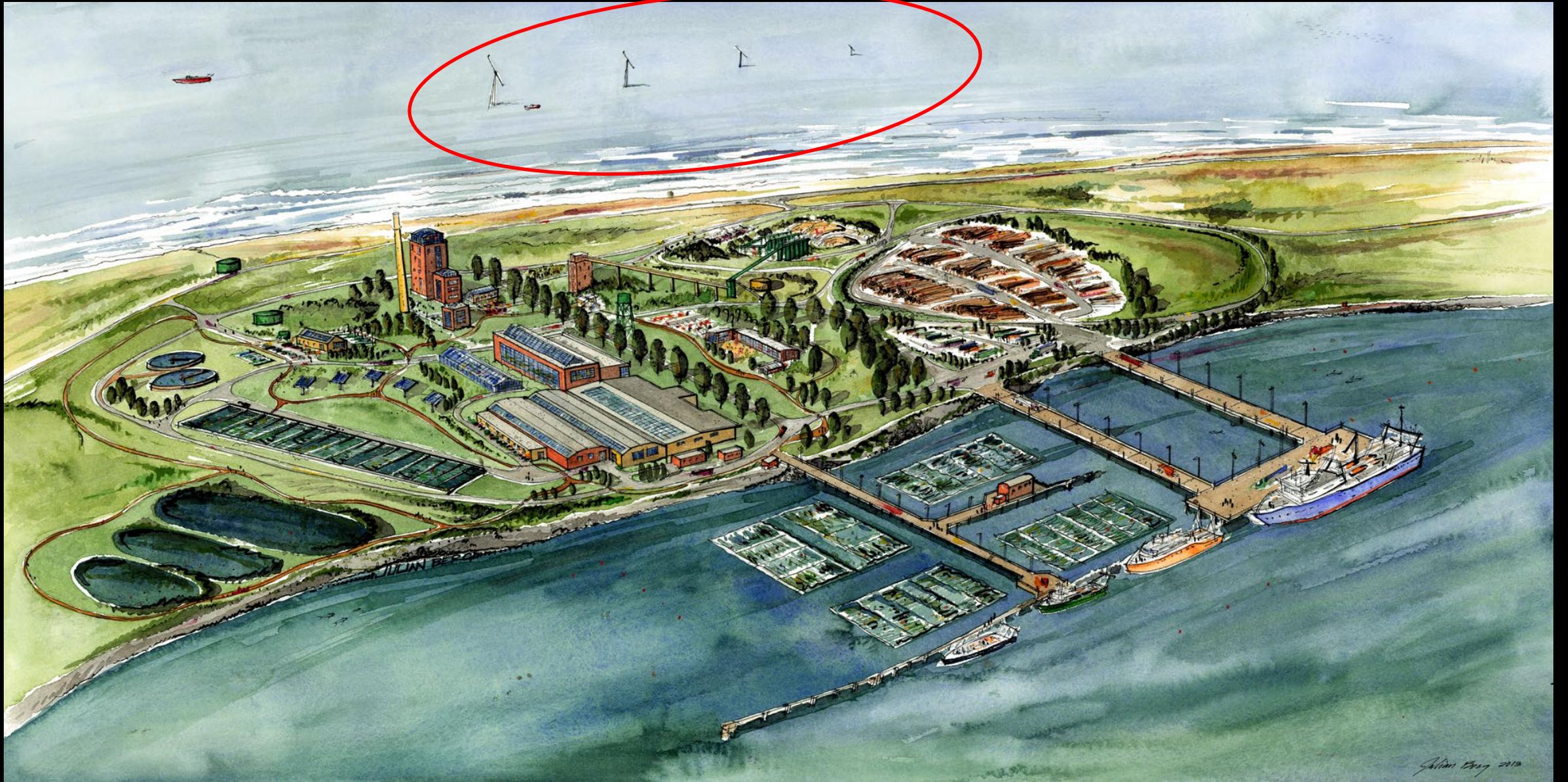
PUBLIC CARGO DOCK



AQUACULTURE



OFFSHORE WIND

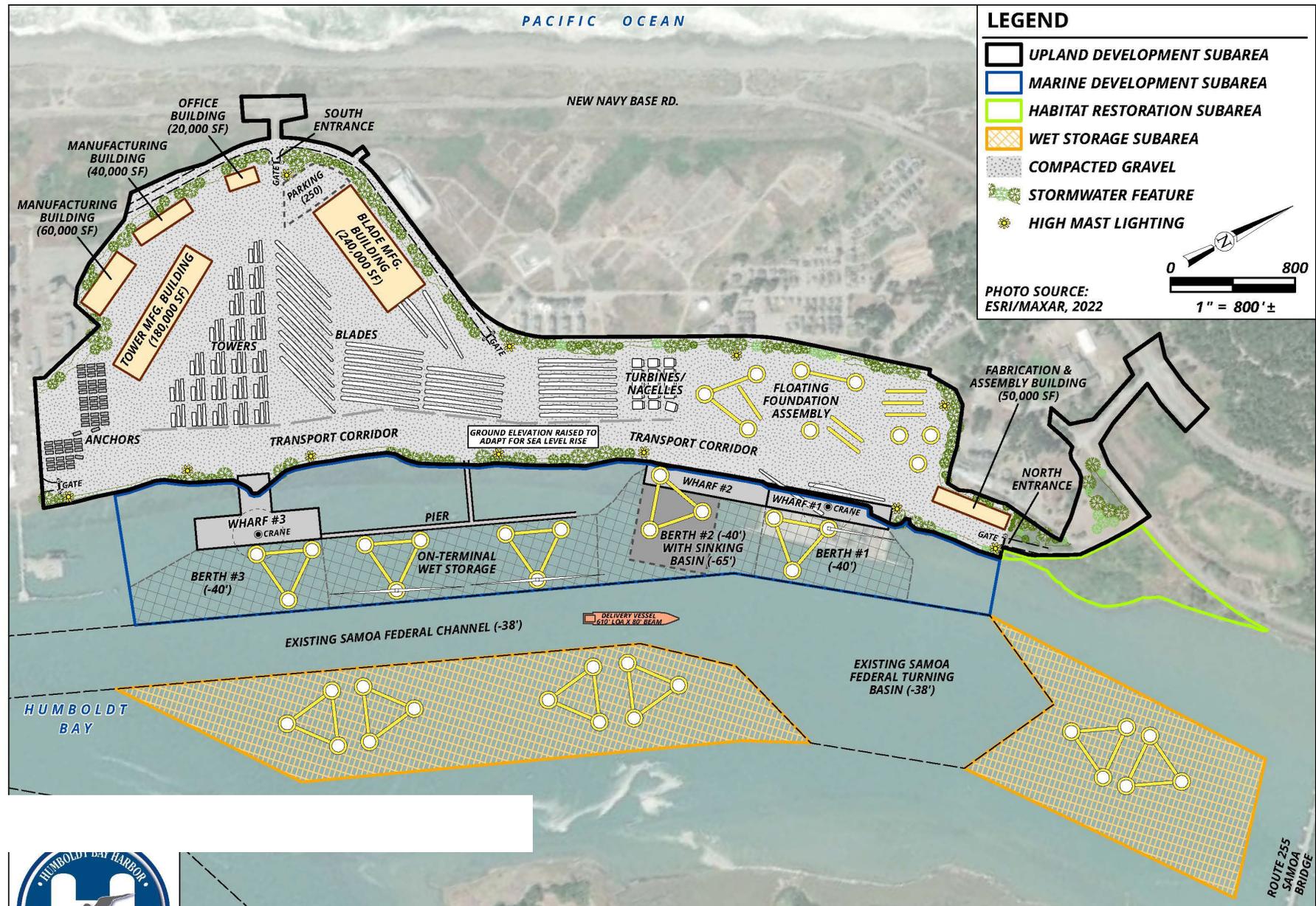


Julian Berg 2013

GRANTS AS STEPPING STONES

- 2020: Humboldt County Headwaters Fund: \$65,000
- 2021: State Lands Commission: \$576,191
- 2022: California Energy Commission: \$10,450,000
- 2023: MARAD PIDP grant: \$8,672,986
- Pending: US DOT MPDG: \$426,719,810 (\$415,547,678 private match)
- Future?: CEC AB 209; others?
- Future: Additional private investments!



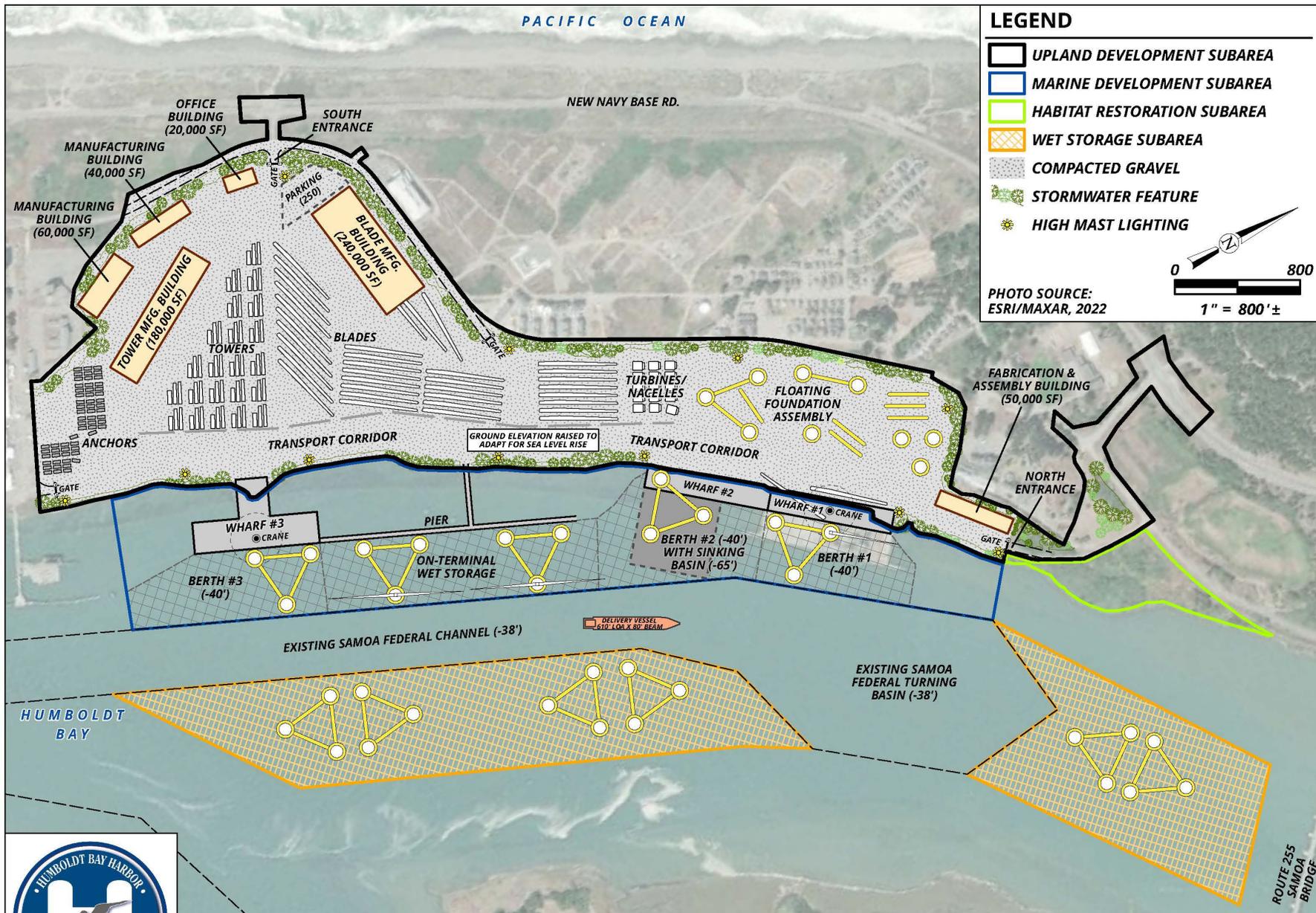


**Humboldt Bay Offshore Wind
Heavy Lift Marine Terminal**

Project Example #1

April 2023

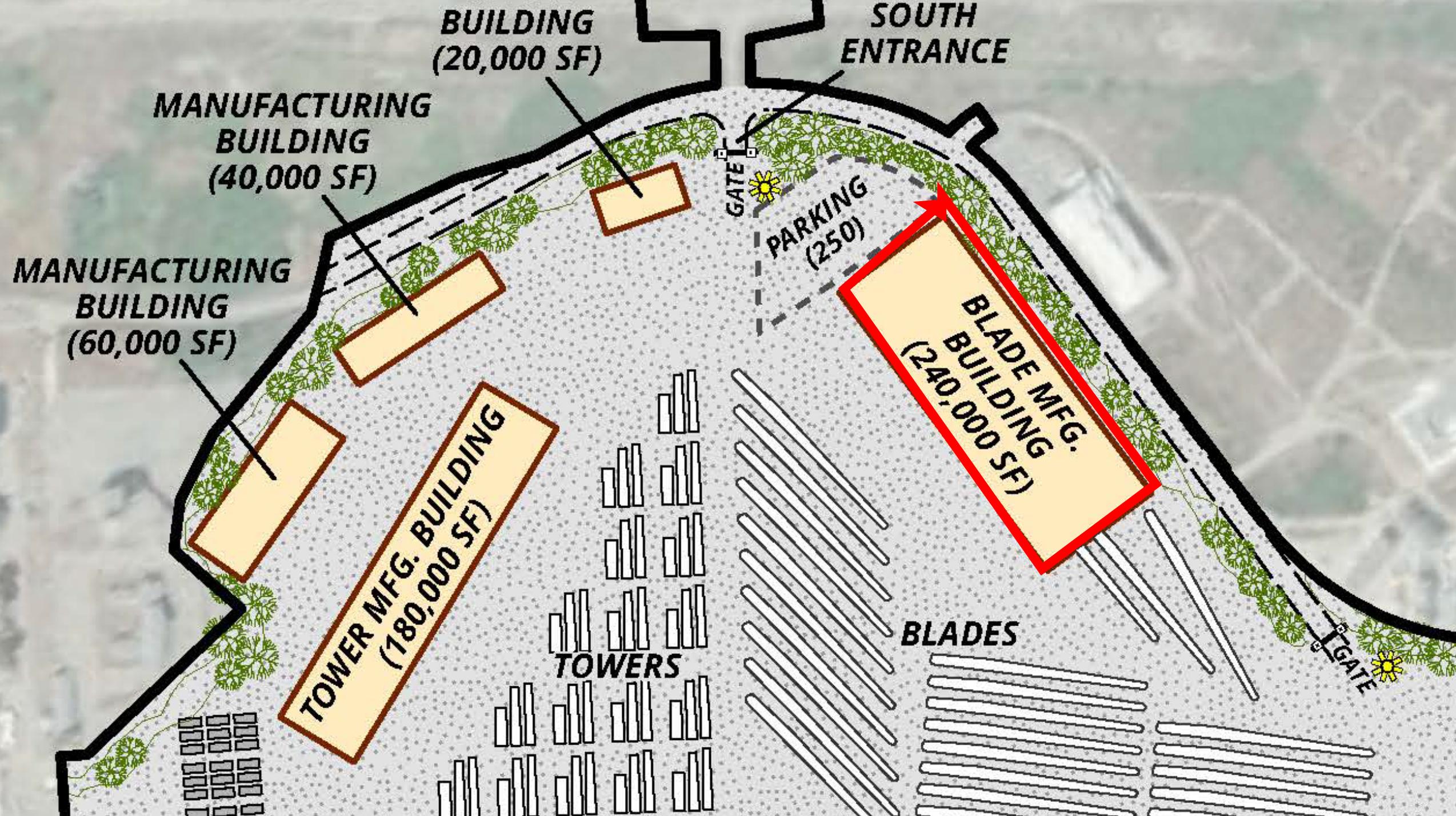
Figure
3.1



Humboldt Bay Offshore Wind Heavy Lift Marine Terminal

Project Example #1
April 2023

Figure **3.1**



**BUILDING
(20,000 SF)**

**SOUTH
ENTRANCE**

**MANUFACTURING
BUILDING
(40,000 SF)**

GATE

**PARKING
(250)**

**MANUFACTURING
BUILDING
(60,000 SF)**

**BLADE MFG.
BUILDING
(240,000 SF)**

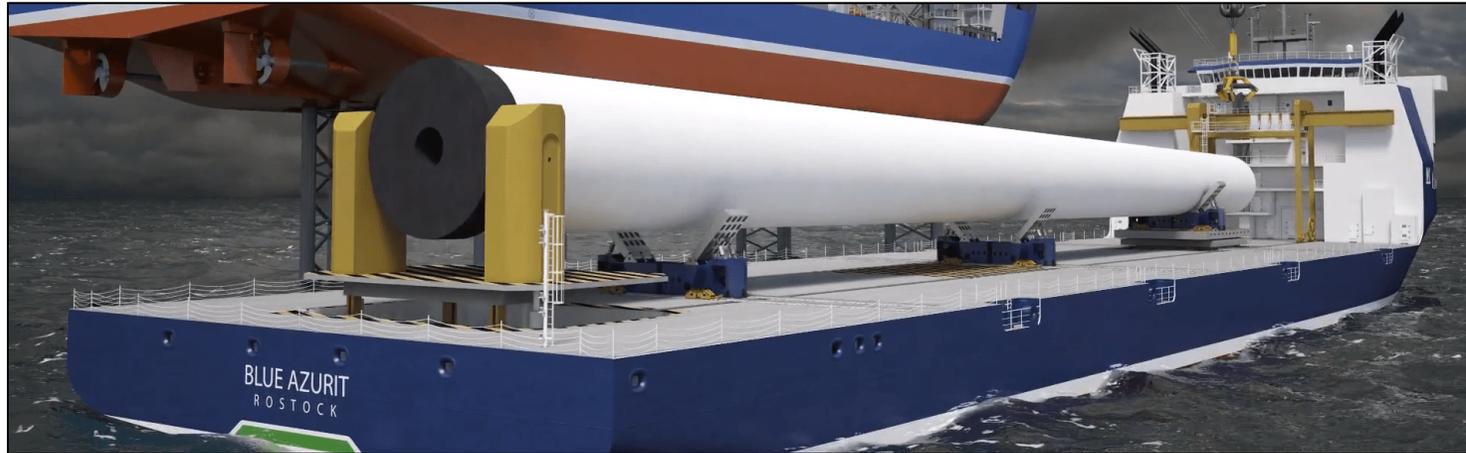
**TOWER MFG. BUILDING
(180,000 SF)**

TOWERS

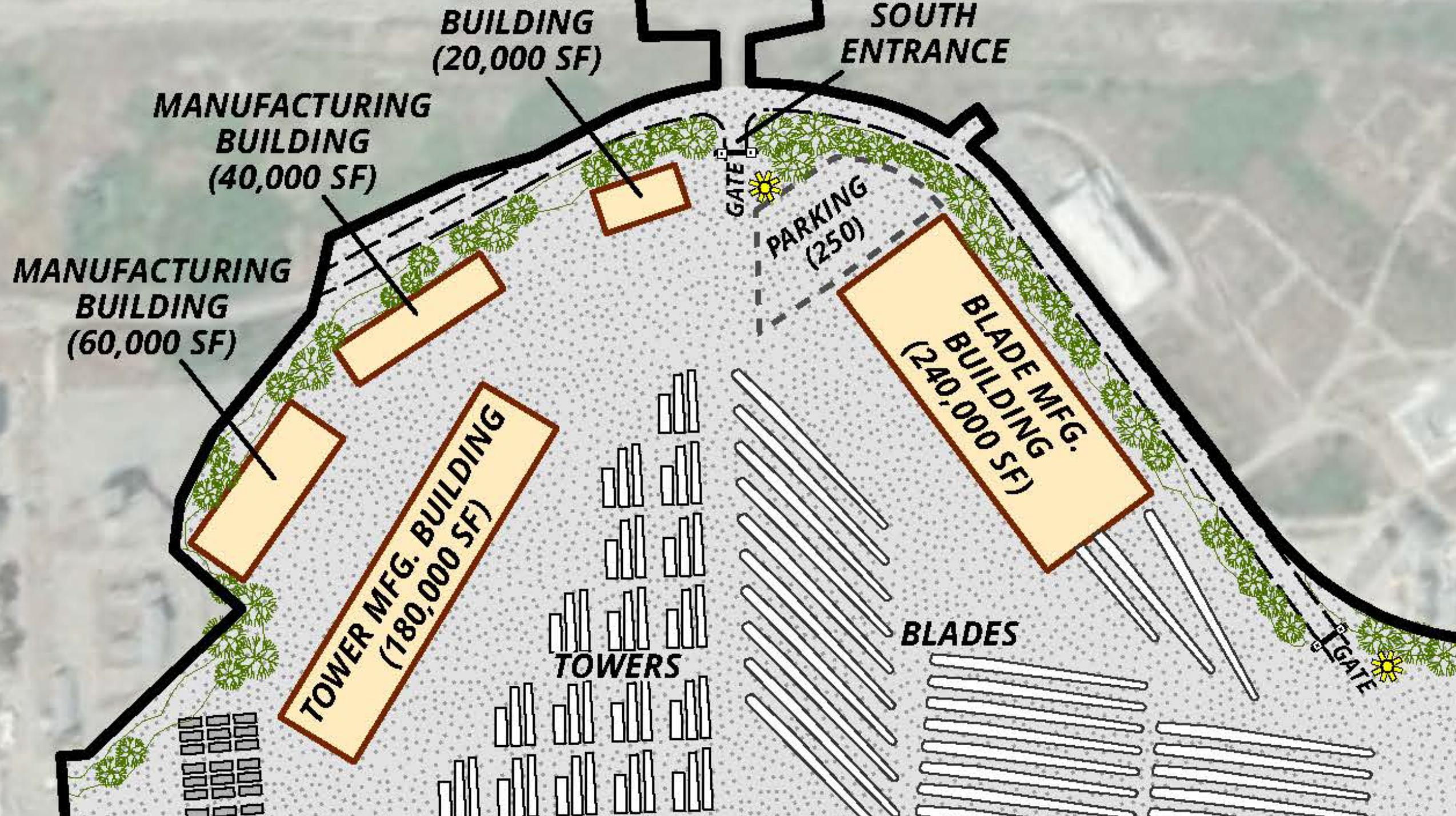
BLADES

GATE





There is enough wind to go around



**BUILDING
(20,000 SF)**

**SOUTH
ENTRANCE**

**MANUFACTURING
BUILDING
(40,000 SF)**

GATE

**PARKING
(250)**

**MANUFACTURING
BUILDING
(60,000 SF)**

**BLADE MFG.
BUILDING
(240,000 SF)**

**TOWER MFG. BUILDING
(180,000 SF)**

TOWERS

BLADES

GATE



Speaker note: While it may be logistically possible to manufacture and ship floating foundations from great distances, it is more likely that floating foundations will need to be manufactured relatively close to call areas. Humboldt Bay is well positioned.

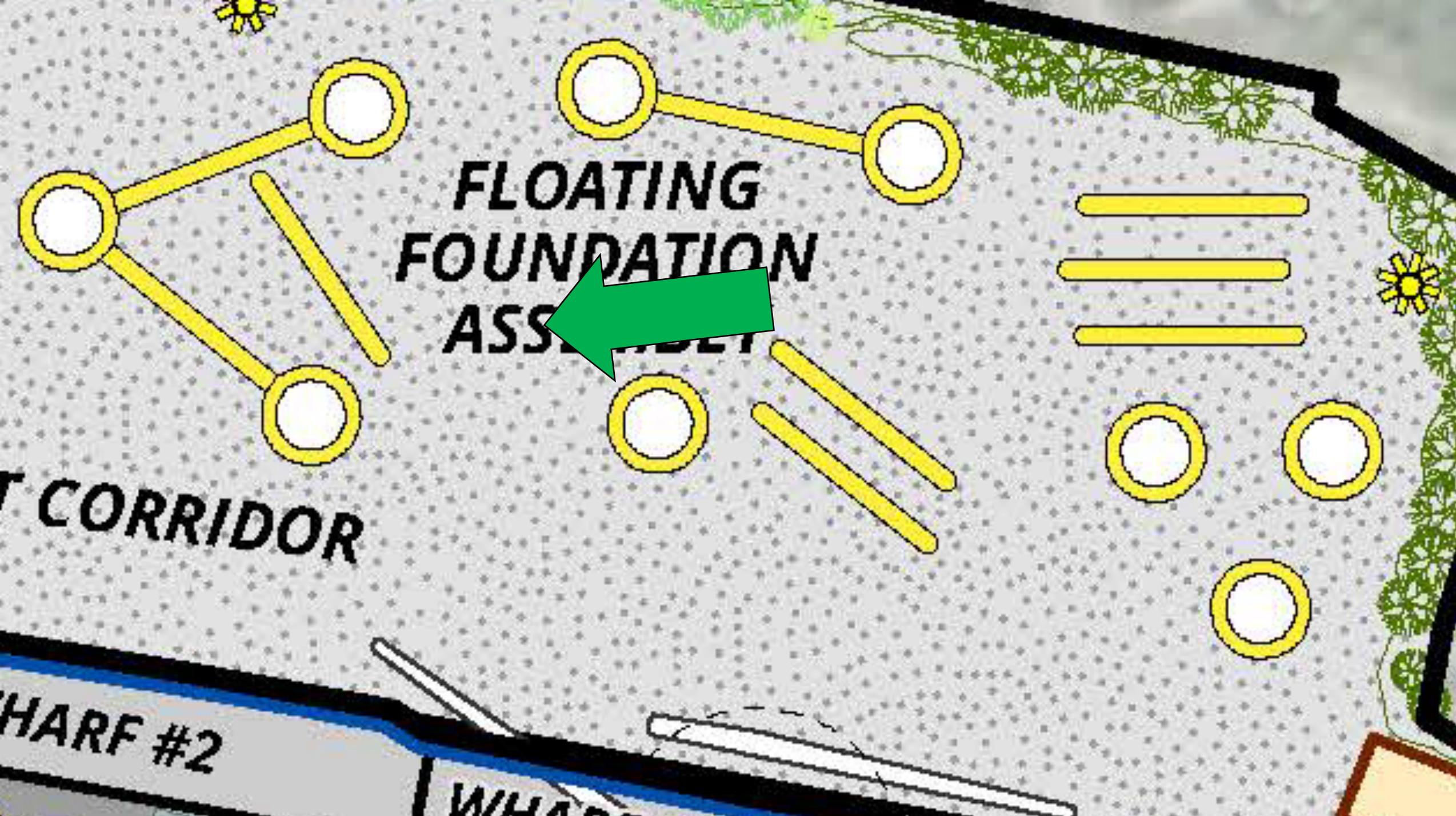
**FLOATING
FOUNDATION
ASSEMBLY**



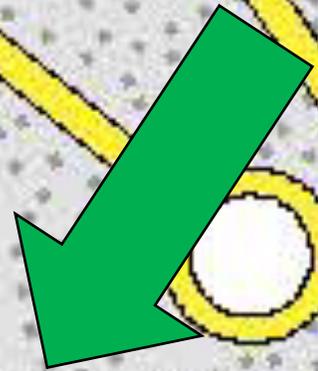
T CORRIDOR

WHARF #2

WHARF



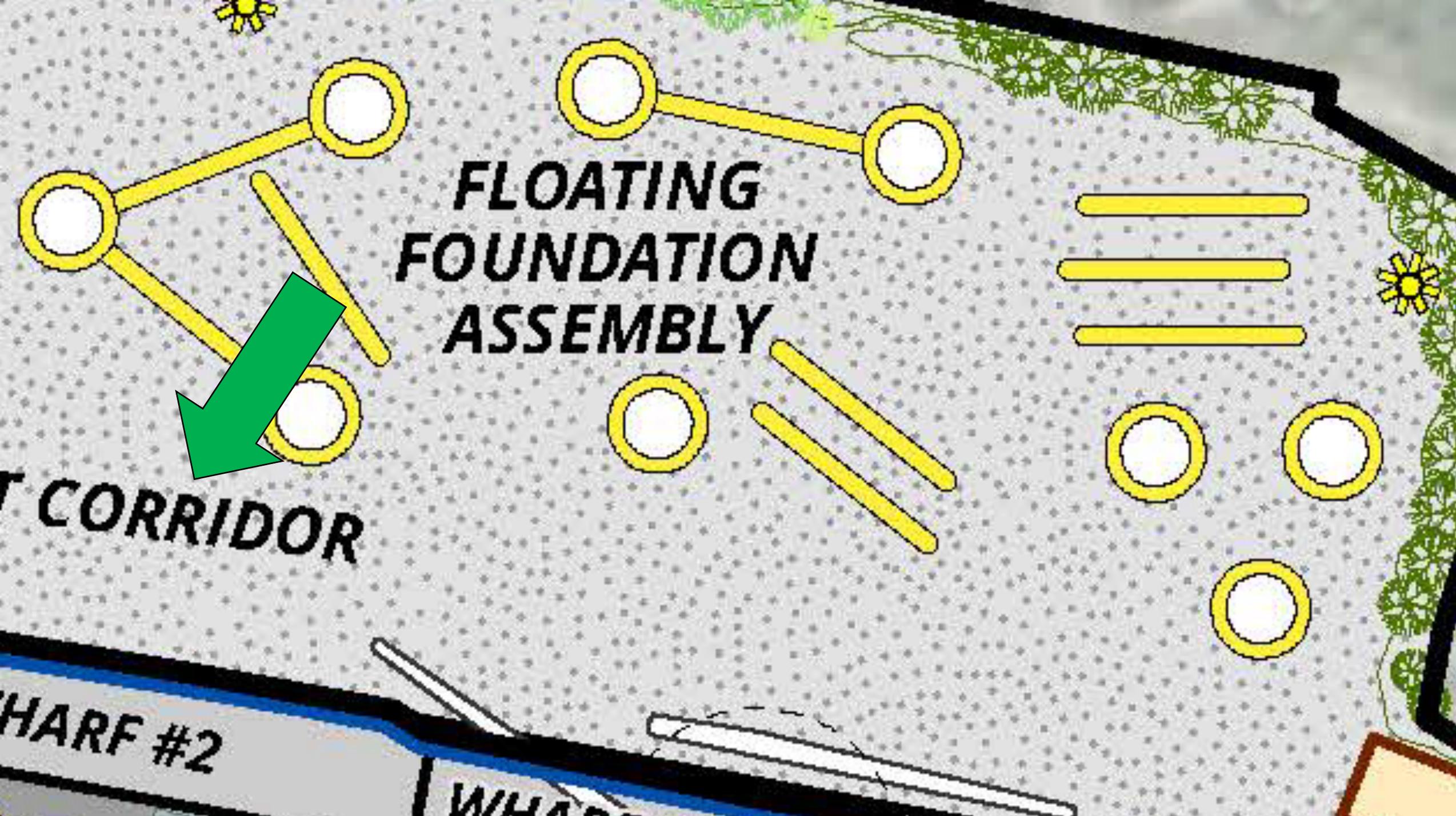
**FLOATING
FOUNDATION
ASSEMBLY**



T CORRIDOR

WHARF #2

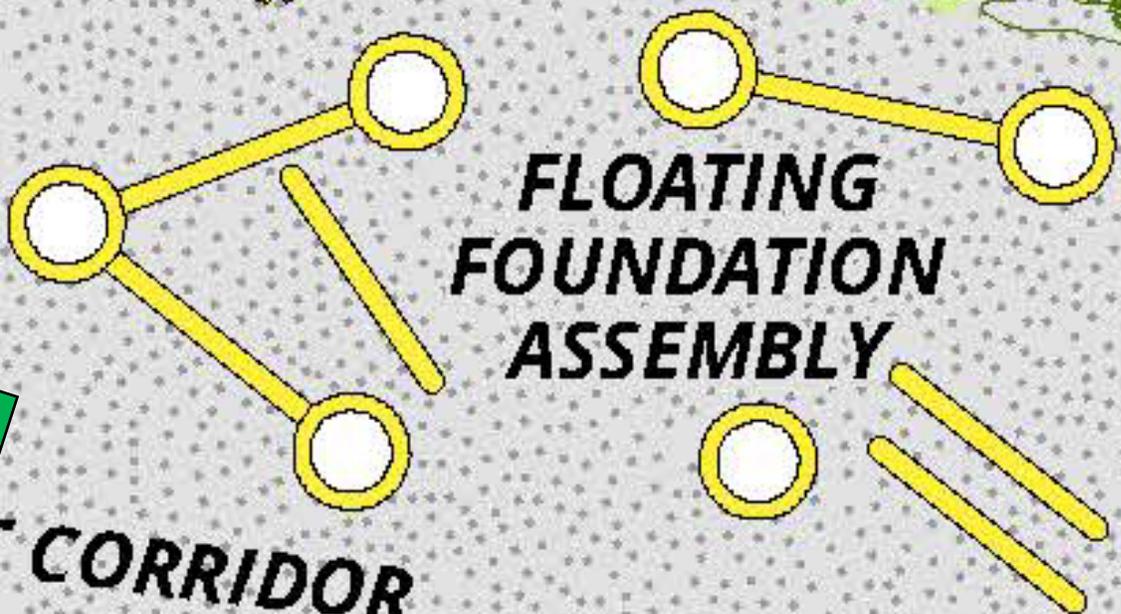
WHARF



**TURBINES/
NAGELLES**



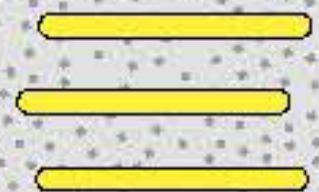
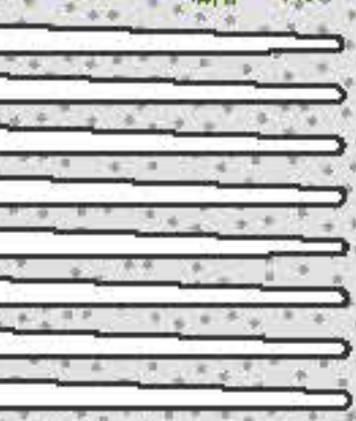
**FLOATING
FOUNDATION
ASSEMBLY**



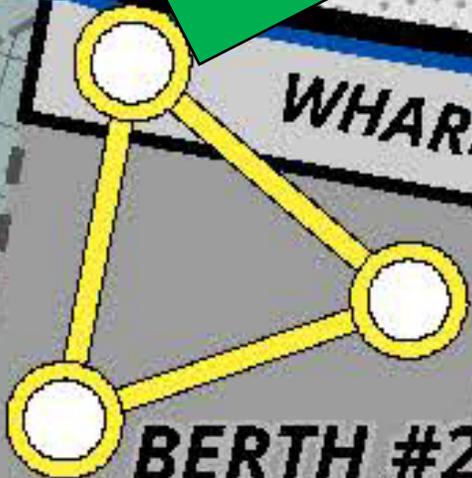
TRANSPORT CORRIDOR



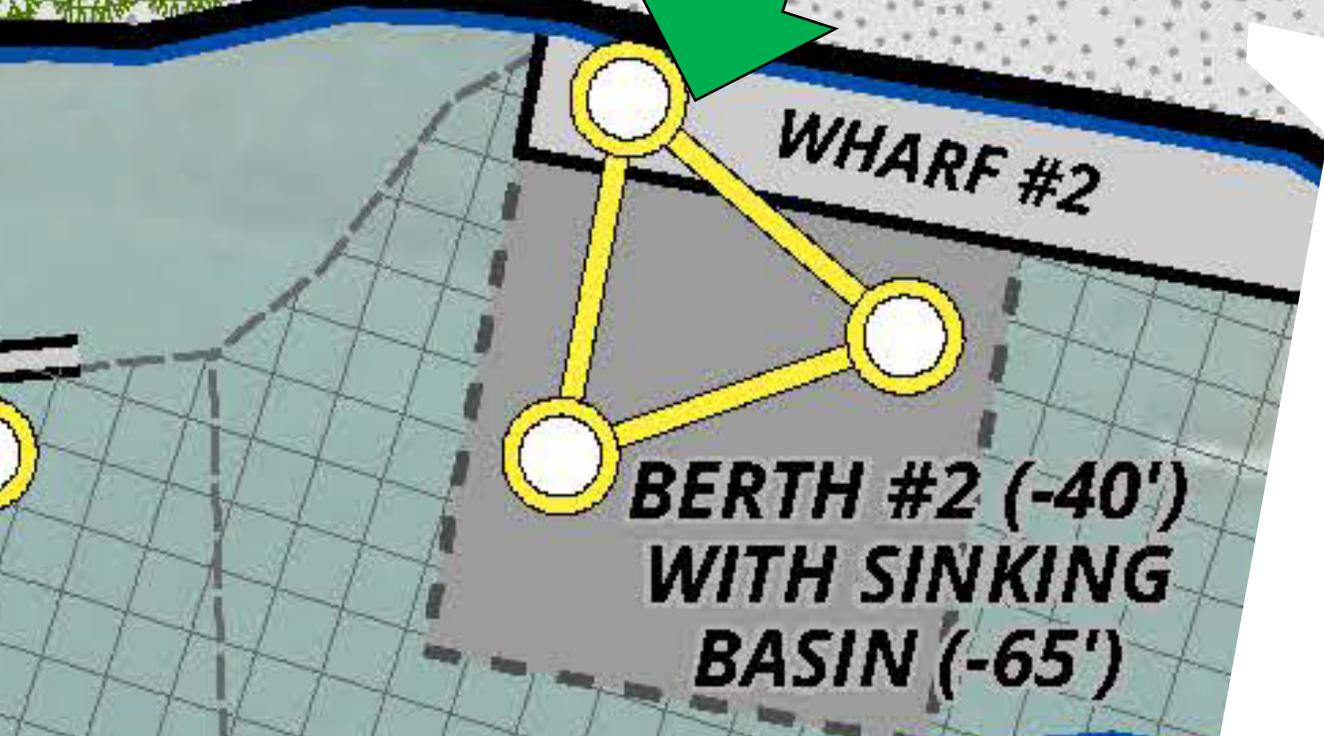
**RAISED TO
L RISE**

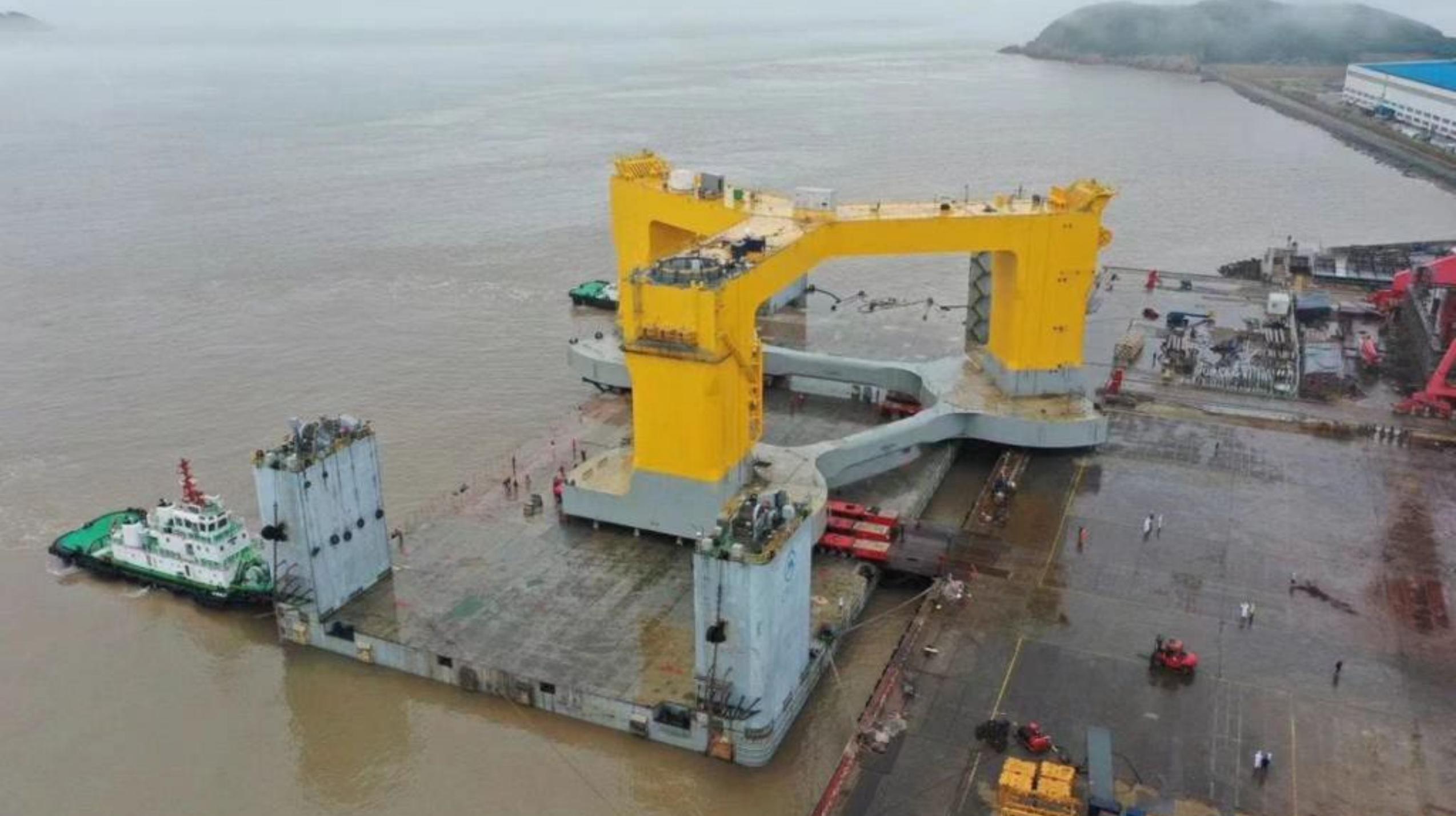


WHARF #2



**BERTH #2 (-40')
WITH SINKING
BASIN (-65')**

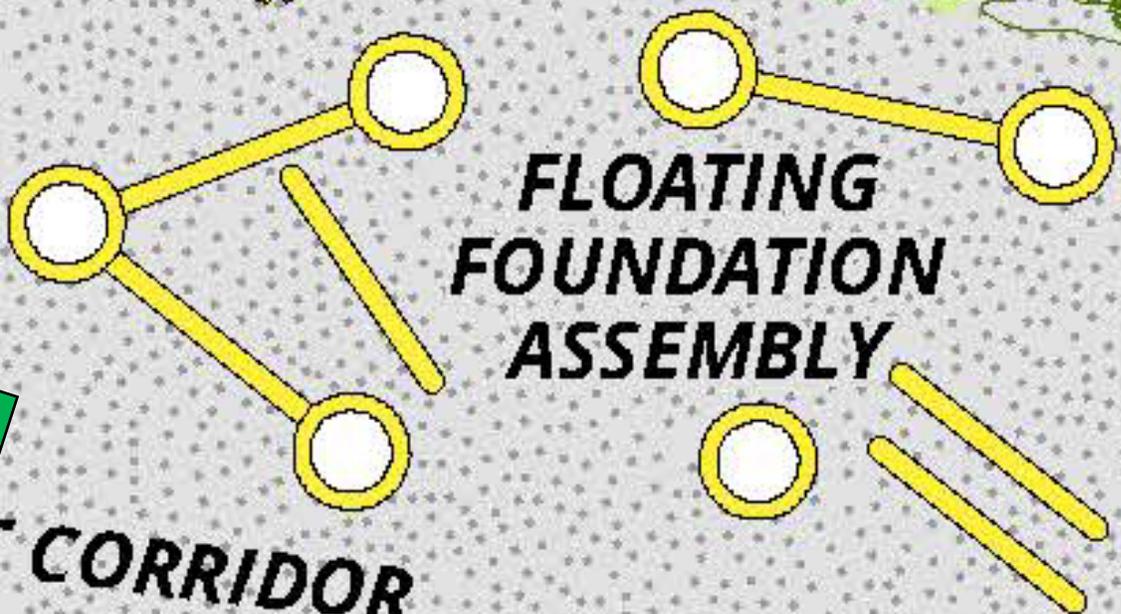




**TURBINES/
NAGELLES**



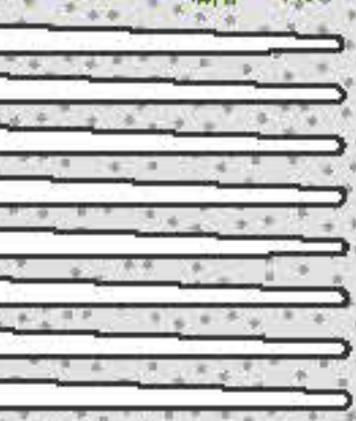
**FLOATING
FOUNDATION
ASSEMBLY**



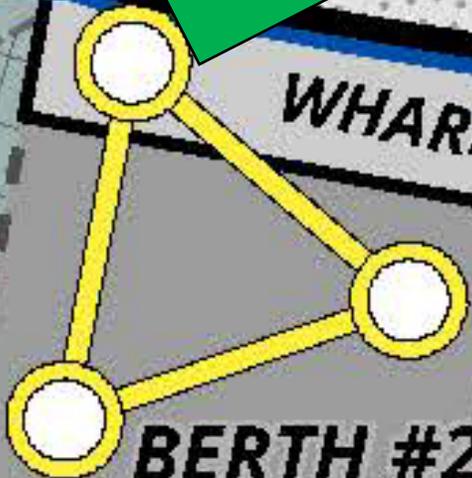
TRANSPORT CORRIDOR



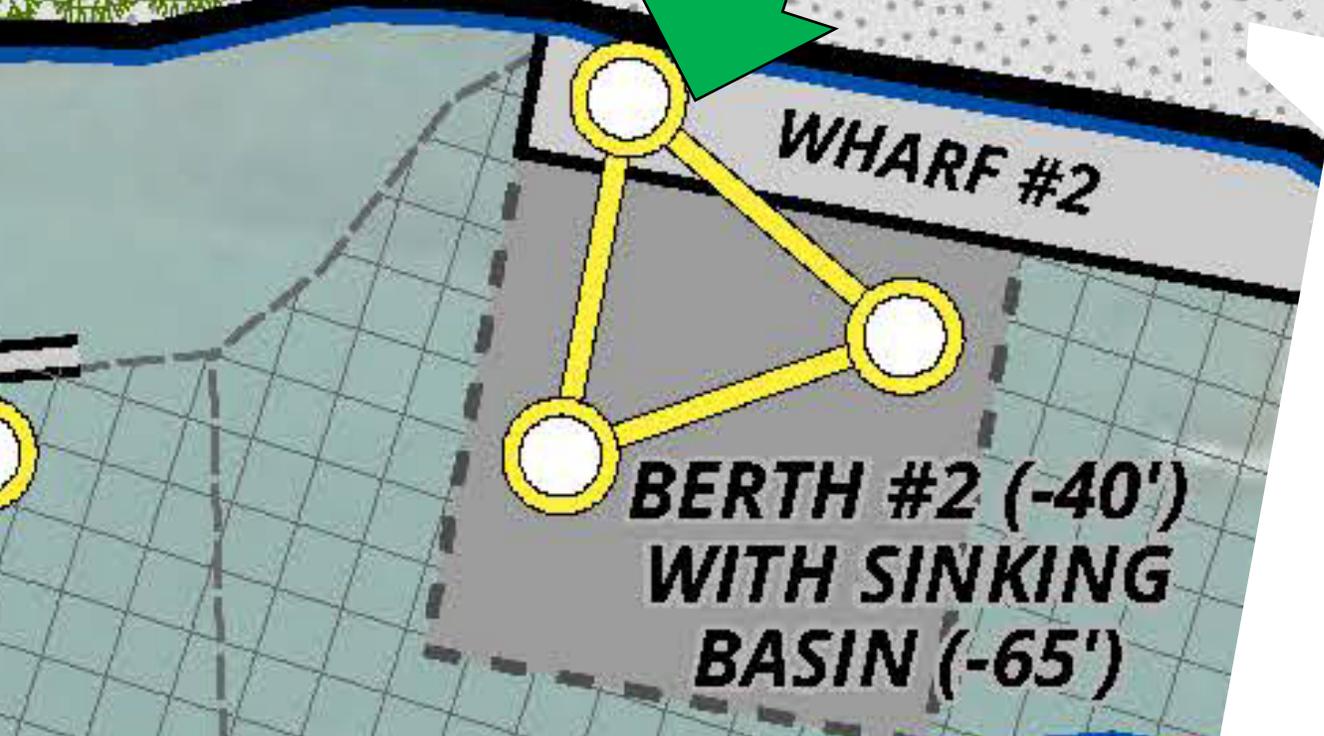
**RAISED TO
L RISE**



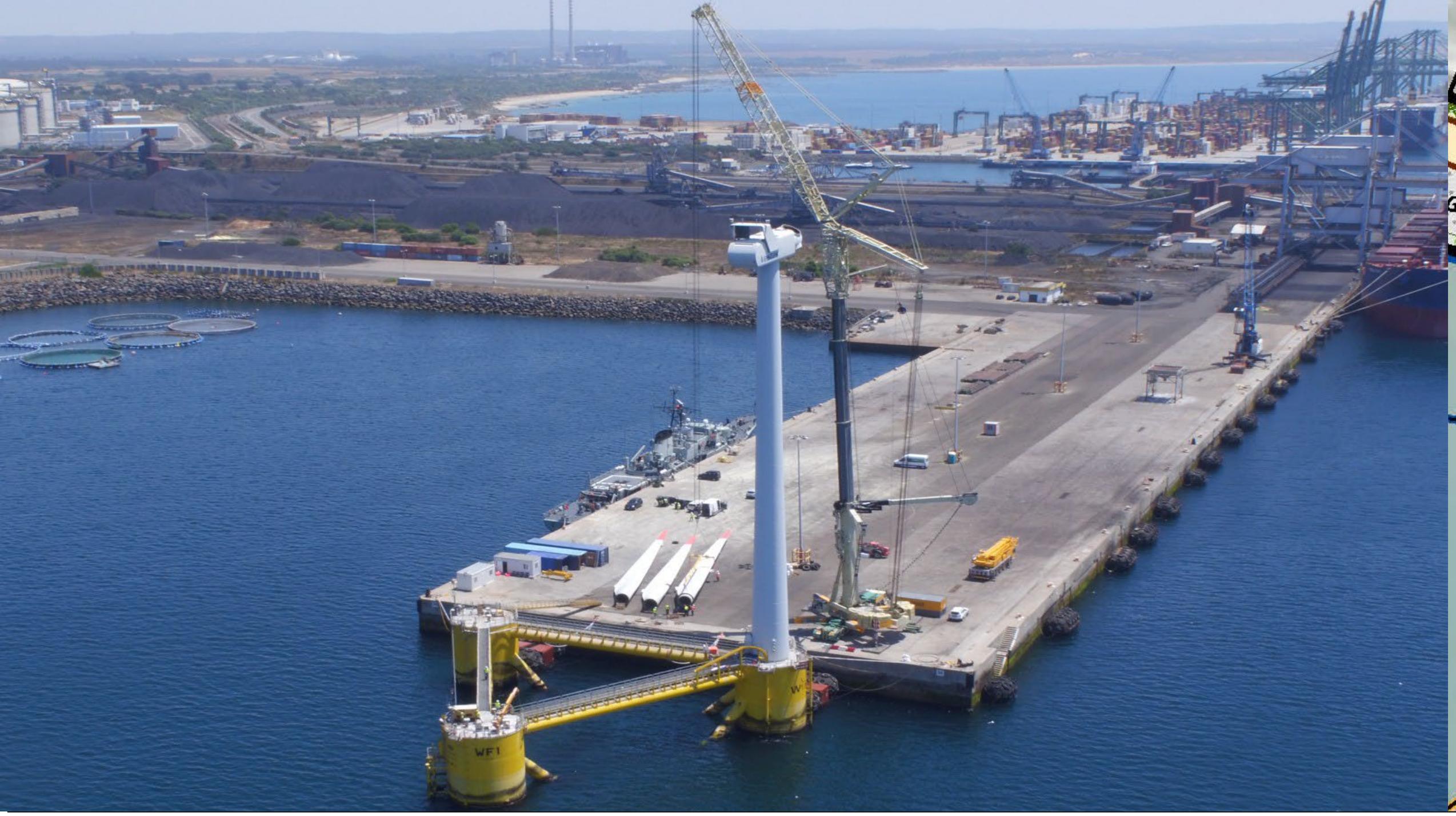
WHARF #2



**BERTH #2 (-40')
WITH SINKING
BASIN (-65')**

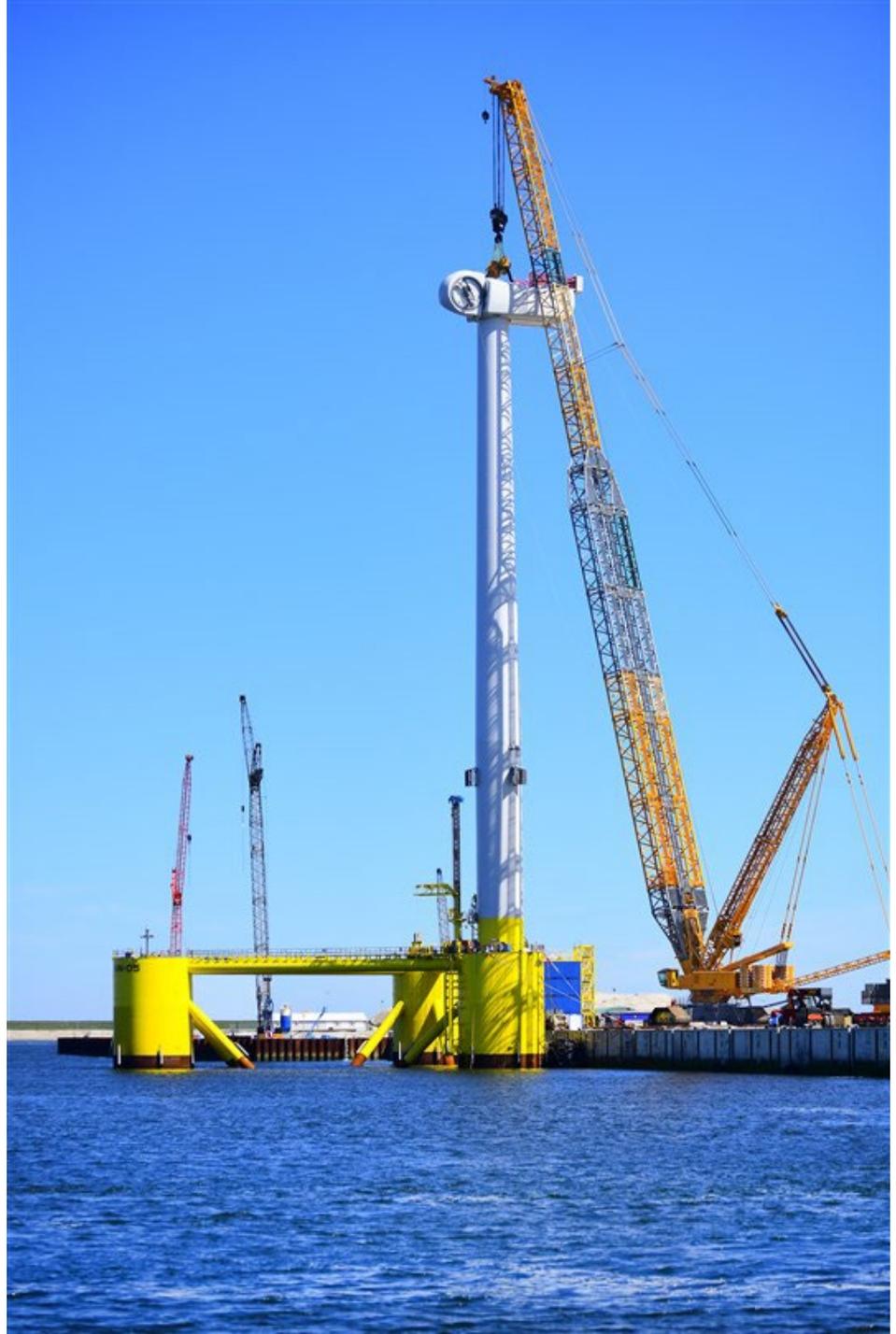










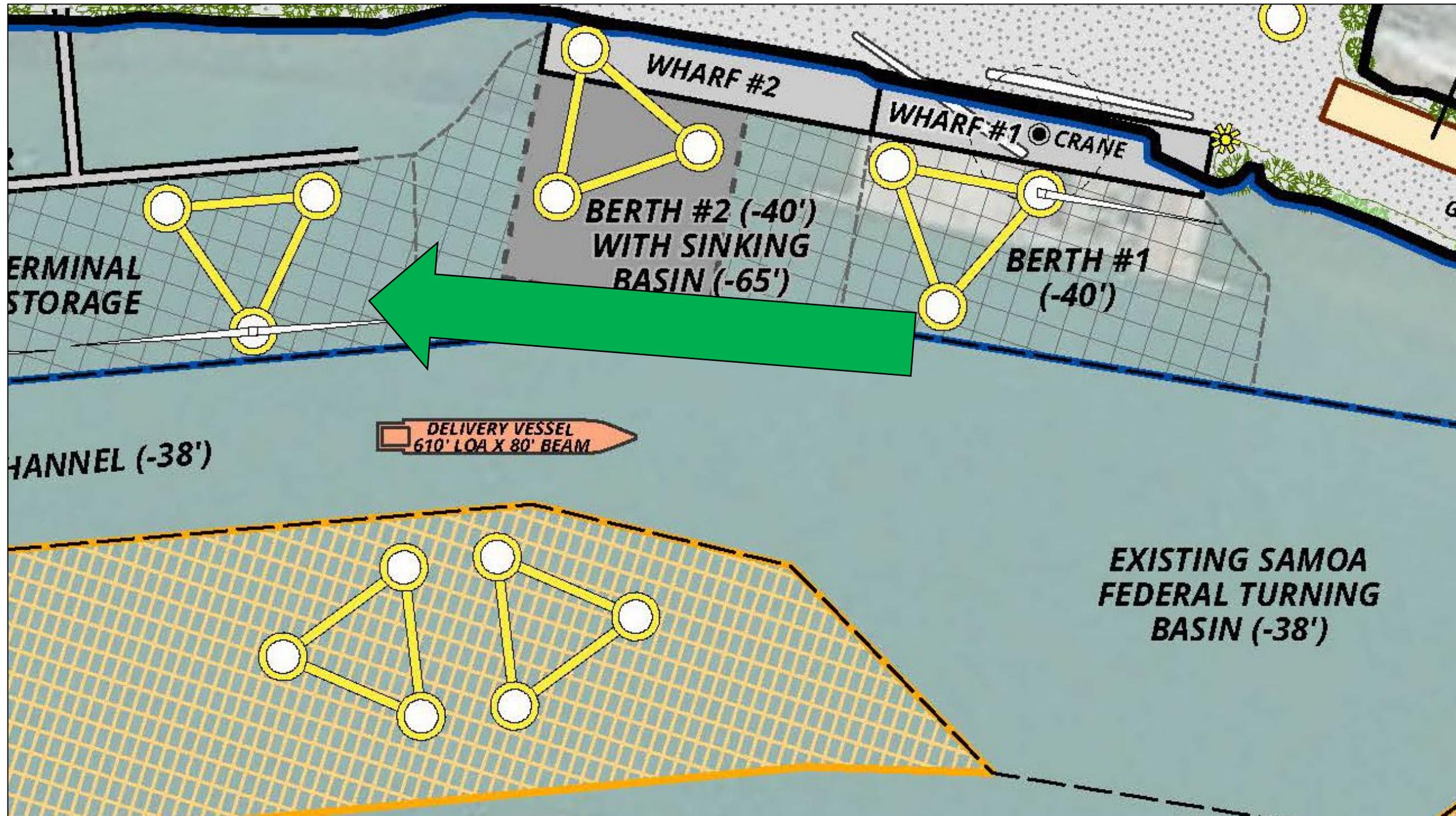












WHARF #2

WHARF #1 CRANE

BERTH #2 (-40')
WITH SINKING
BASIN (-65')

BERTH #1
(-40')

TERMINAL
STORAGE

CHANNEL (-38')

DELIVERY VESSEL
610' LOA X 80' BEAM

EXISTING SAMOA
FEDERAL TURNING
BASIN (-38')

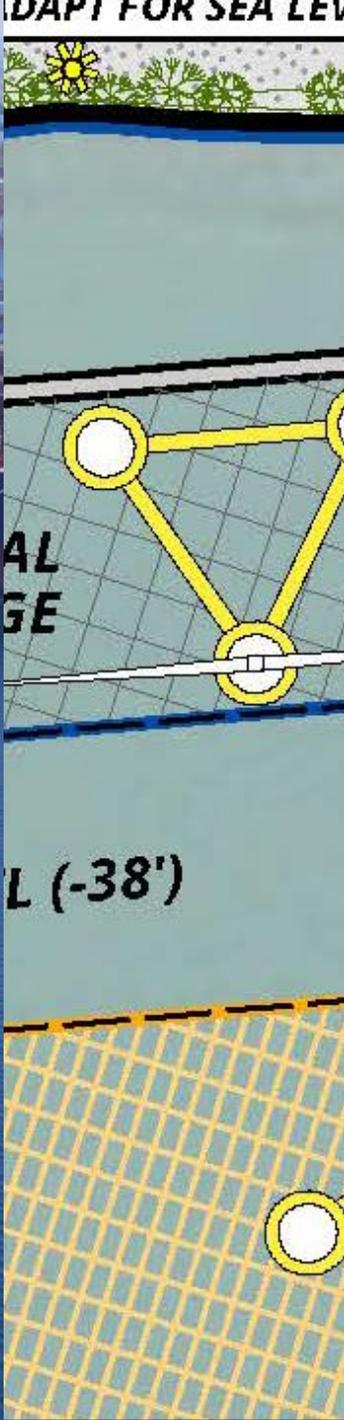
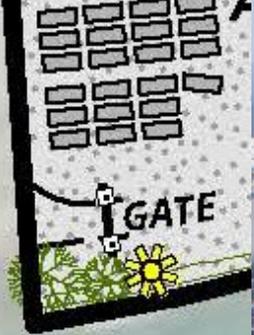
PIER



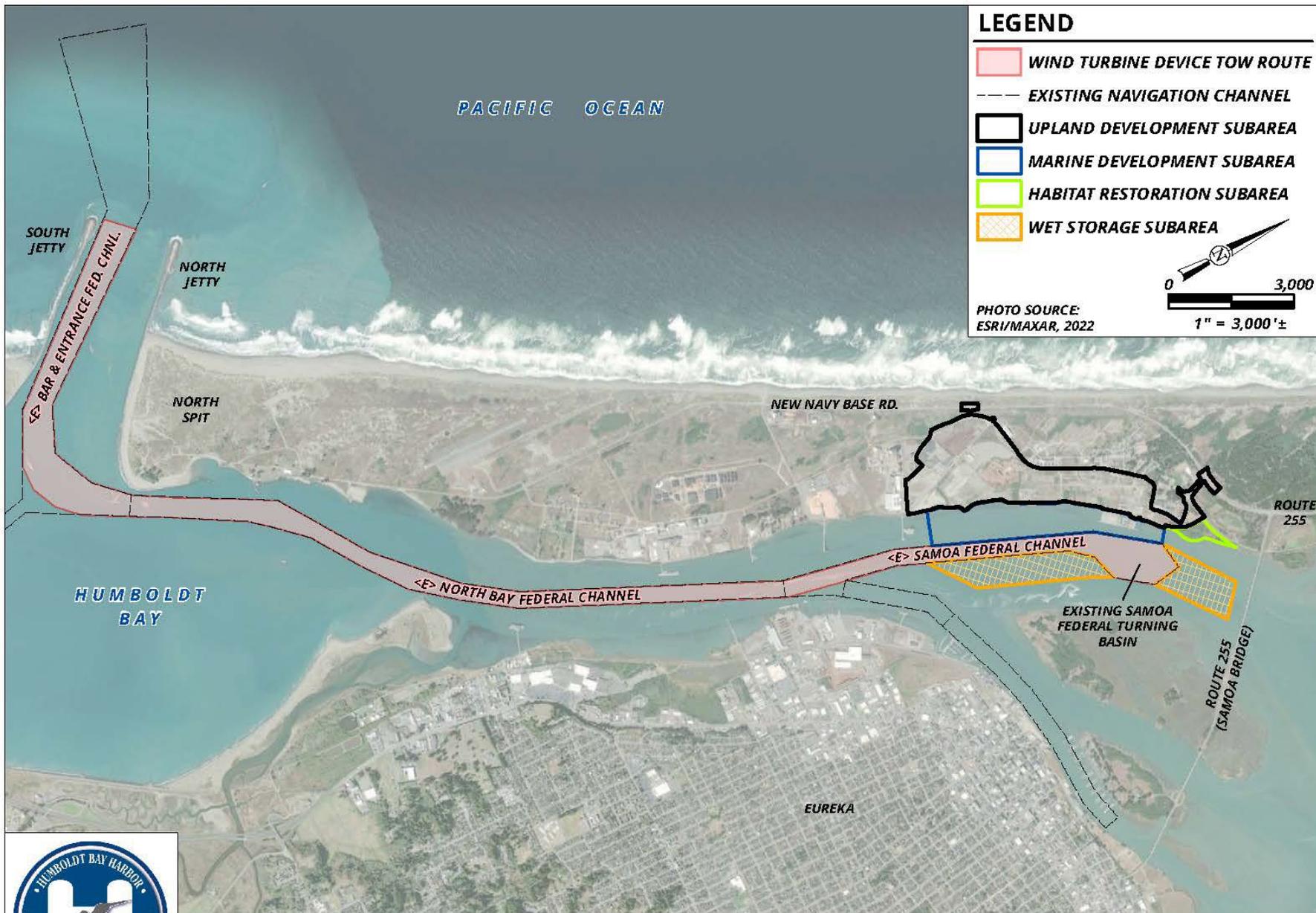
**ON-TERMINAL
WET STORAGE**

SAMOA FEDERAL CHANNEL (-38')

**DELIVERY V
610' LOA X 8**



HUMBO
BAY



Humboldt Bay Offshore Wind Heavy Lift Marine Terminal

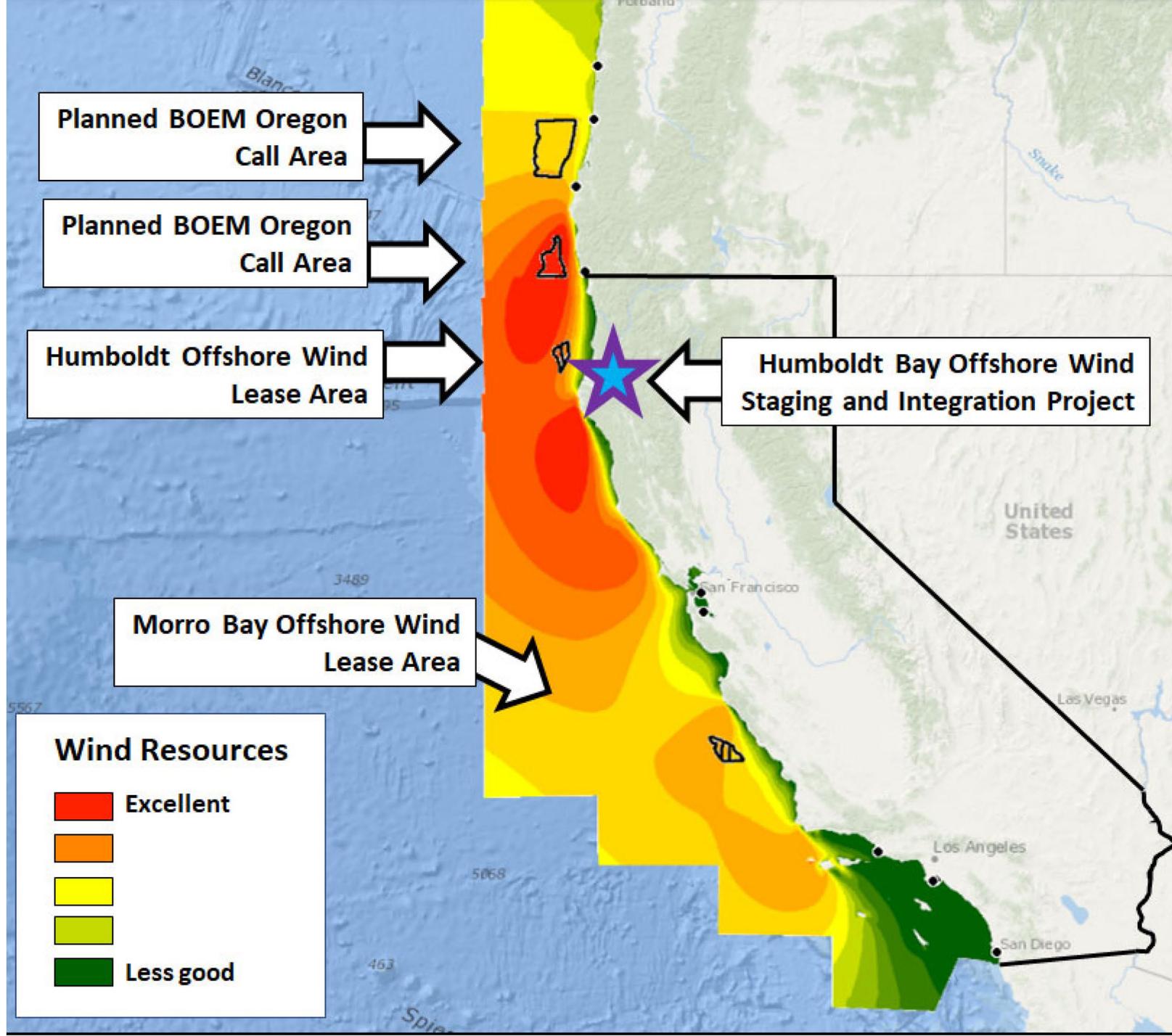
Wind Turbine Device Tow Out Route

May 2023

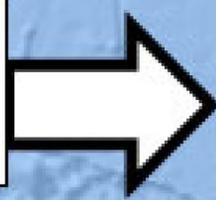
Figure 8



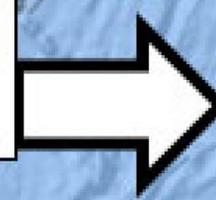
O&M



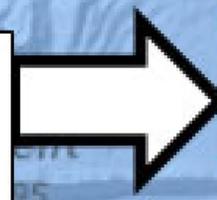
**Planned BOEM Oregon
Call Area**



**Planned BOEM Oregon
Call Area**



**Humboldt Offshore Wind
Lease Area**



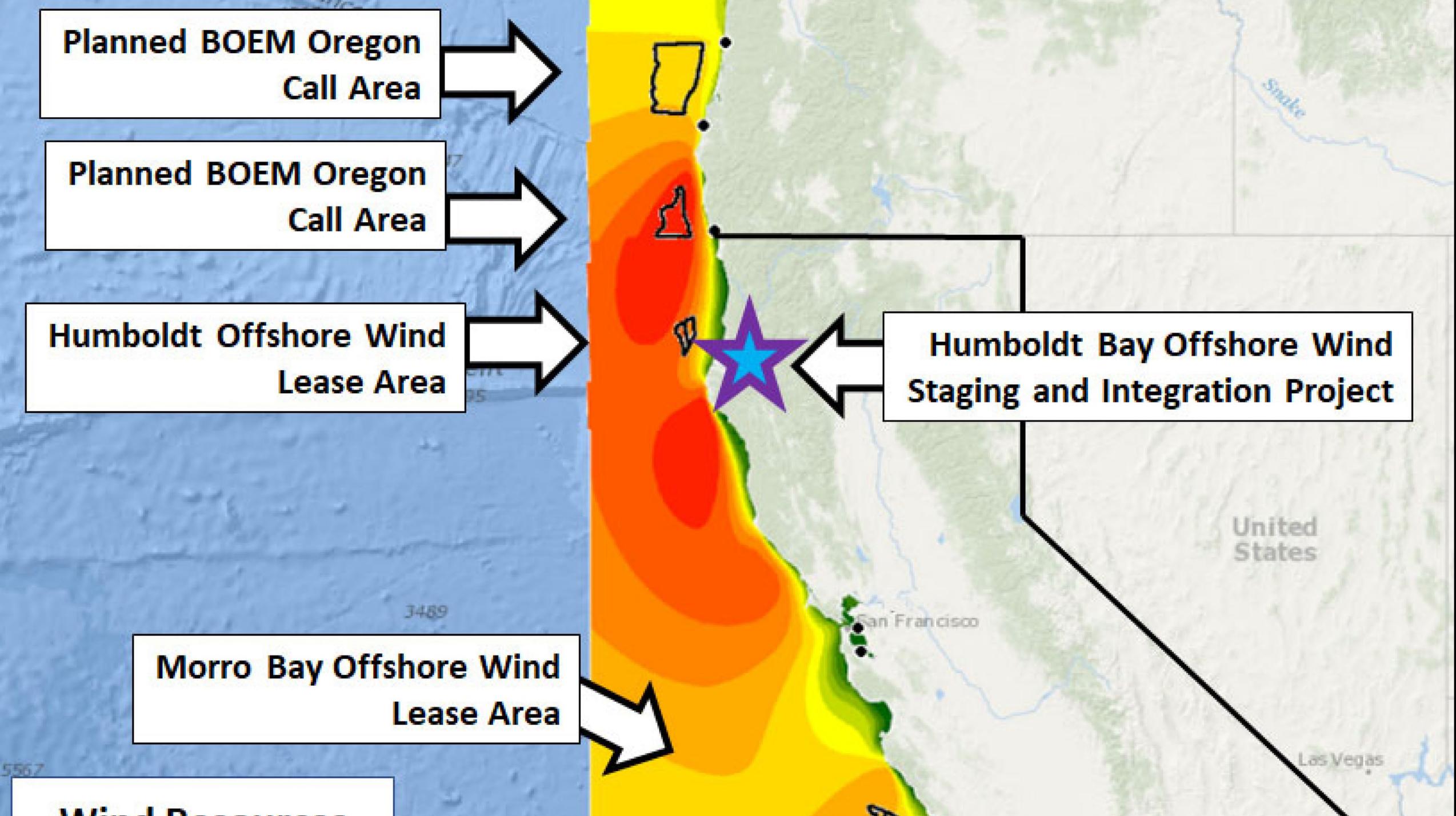
**Humboldt Bay Offshore Wind
Staging and Integration Project**



**Morro Bay Offshore Wind
Lease Area**



Wind Resources

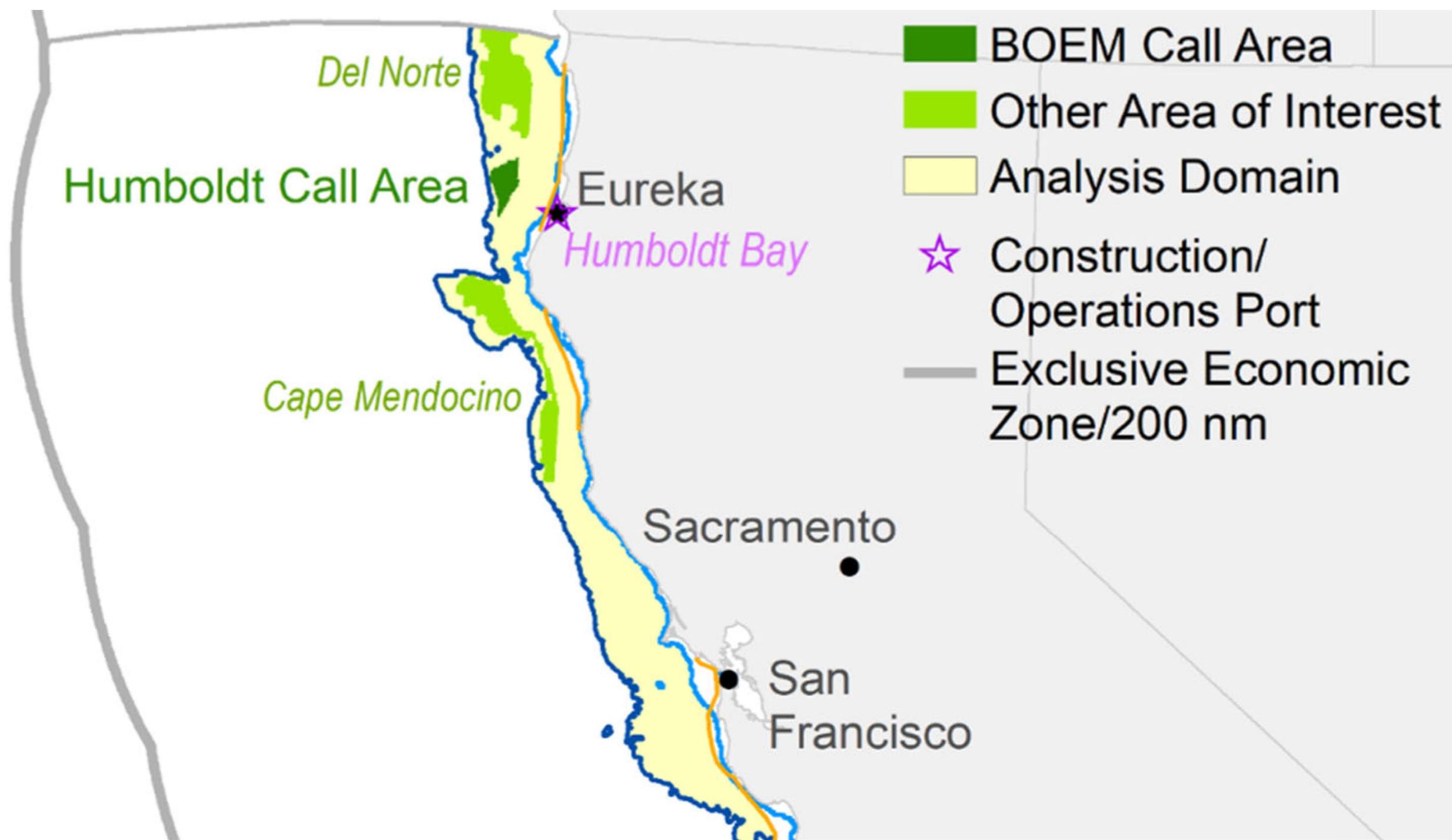


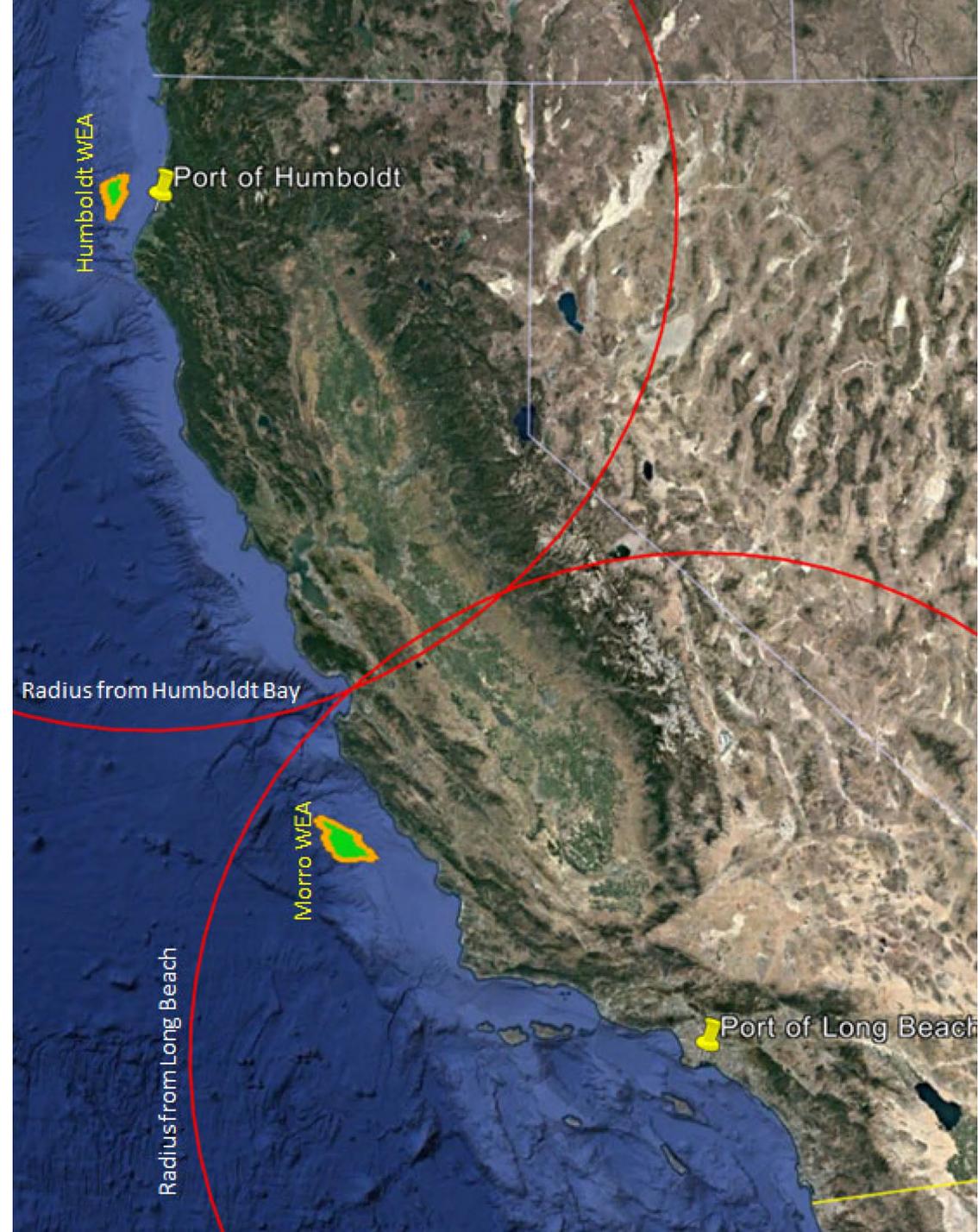


- BOEM Call Area
- Other Area of Interest
- Analysis Domain
- ☆ Construction/Operations Port
- Exclusive Economic Zone/200 nm

- Analysis Domain Definition Criteria**
- 40 m Isobath
 - 1,300 m Isobath
 - 7 m/s 100 m Wind Speed Threshold
 - State Offshore Boundary

Wind Resource Data Extent





STATUS REPORT

An aerial photograph of the South Jetty in Humboldt Bay, California. The jetty is a long, narrow pier constructed from dark, rectangular concrete armor units, extending from the shore into the deep blue ocean. At the end of the jetty, there is a prominent red navigational buoy on a white post. The water shows some white foam from waves breaking against the jetty. In the background, the coastline and distant mountains are visible under a clear blue sky.

South Jetty
Humboldt Bay California

PROJECT LABOR AGREEMENT

BY AND BETWEEN

THE HUMBOLDT BAY HARBOR, RECREATION, AND CONSERVATION DISTRICT

AND

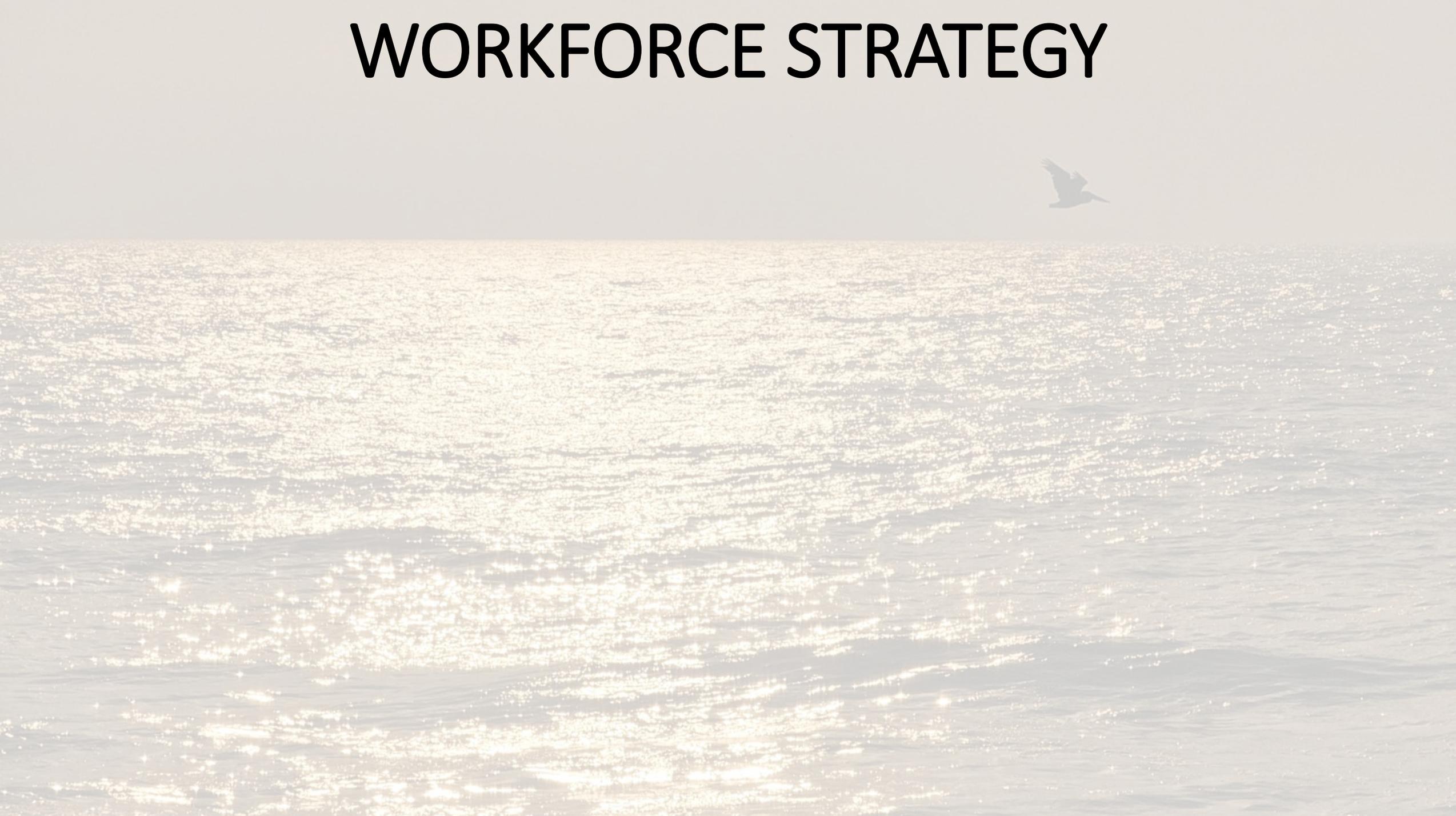
STATE BUILDING AND CONSTRUCTION TRADES COUNCIL OF CALIFORNIA,

BUILDING AND CONSTRUCTION TRADES COUNCIL

OF HUMBOLDT AND DEL NORTE COUNTIES

AND THE SIGNATORY CRAFT COUNCILS AND UNIONS

WORKFORCE STRATEGY



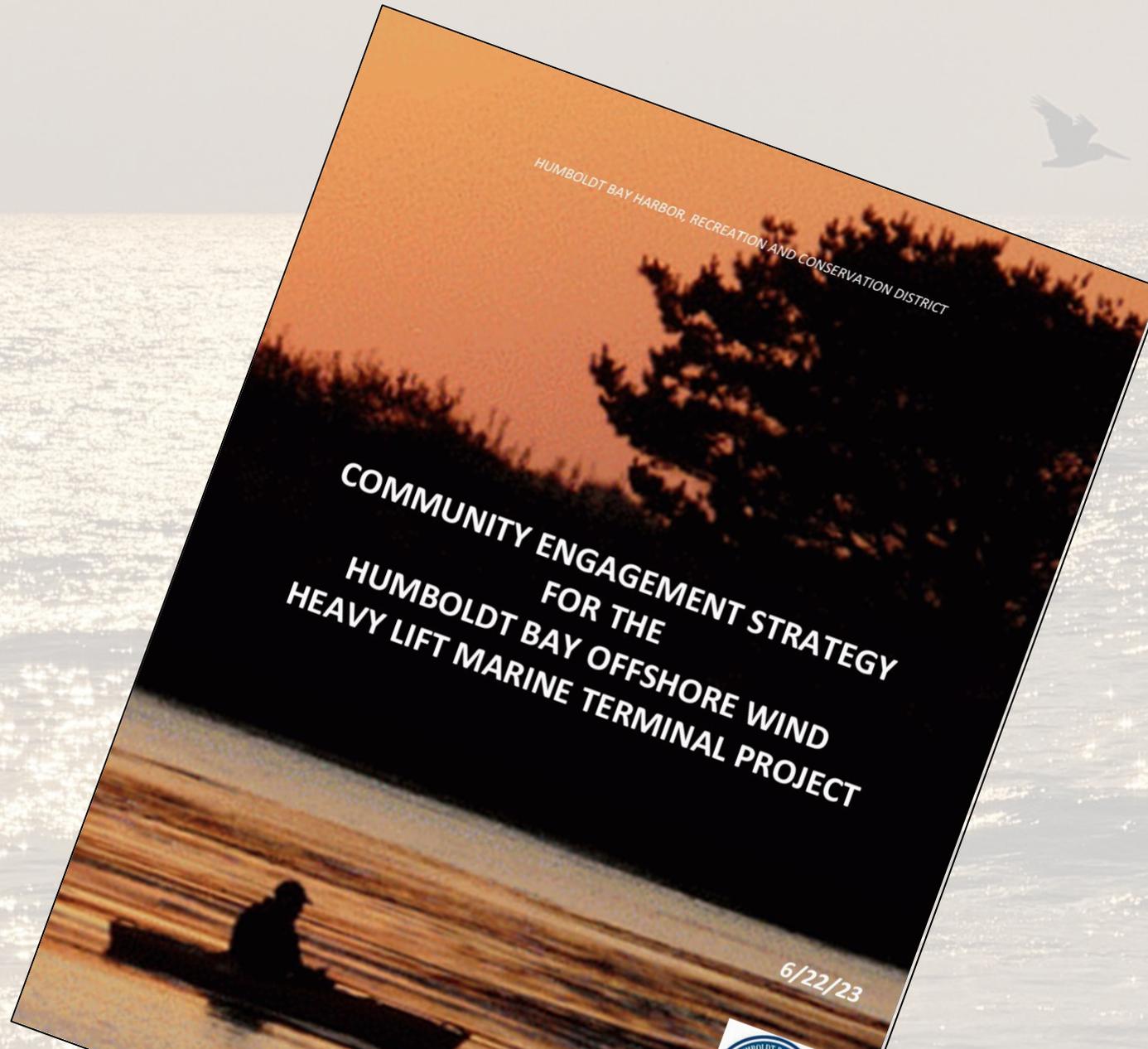
BUSINESS PLAN



Tribal Engagement



COMMUNITY ENGAGEMENT STRATEGY



**COMMUNITY ENGAGEMENT STRATEGY
FOR THE
HUMBOLDT BAY OFFSHORE WIND
HEAVY LIFT MARINE TERMINAL PROJECT**

6/22/23

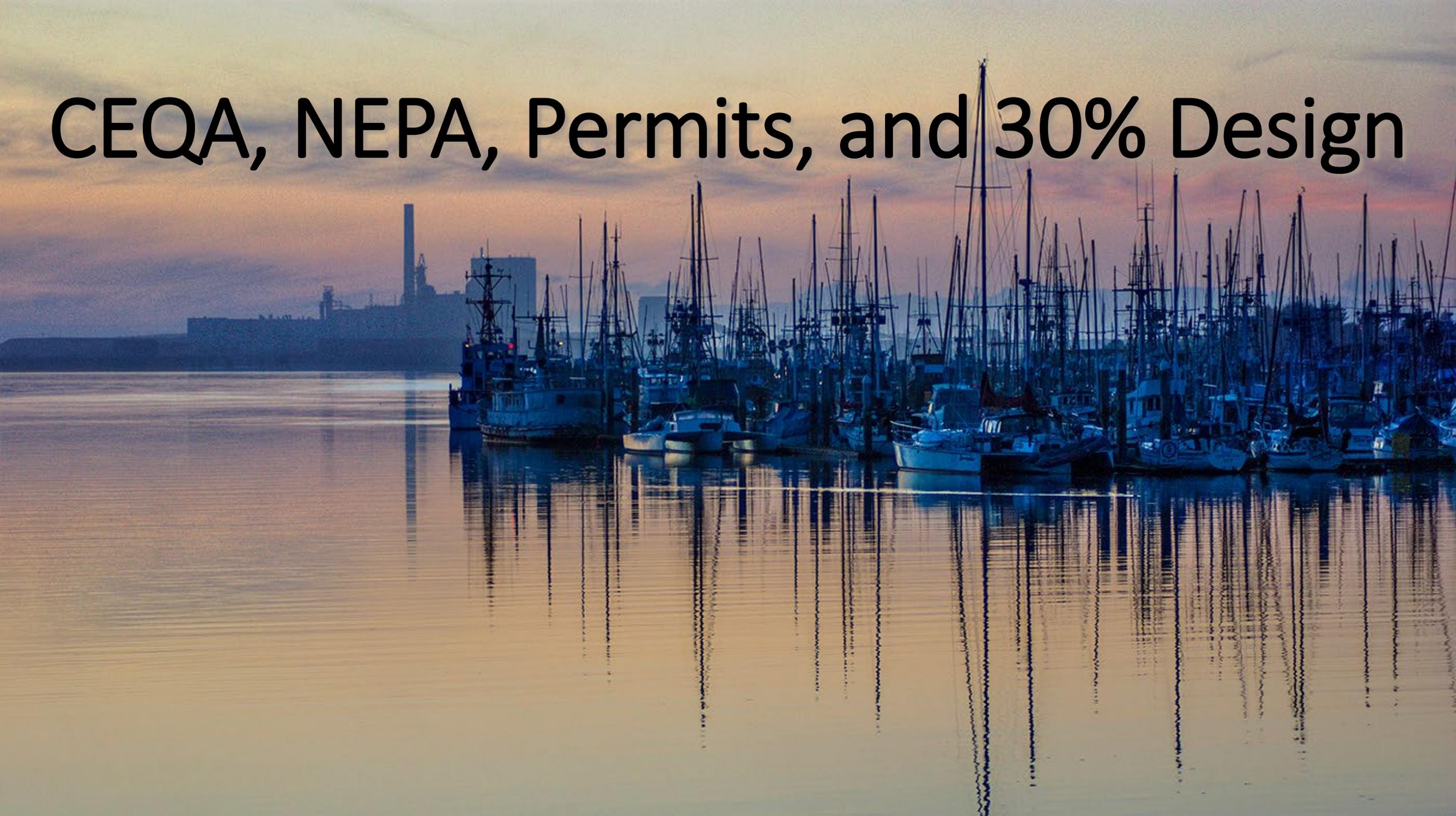
Community Advisory Committee



Community Benefit Program



CEQA, NEPA, Permits, and 30% Design





Humboldt Bay Offshore Wind Port



Humboldt Bay Wind Terminal - Multi-agency mitigation planning meeting
11/2/23

Rob Holmlund, Development Director, HBHRCD



Multi-agency mitigation planning meeting
11/2/23

EELGRASS MITIGATION STRATEGY



Green Terminal Planning



SAMOA PENINSULA ENHANCED INFRASTRUCTURE FINANCING DISTRICT



Infrastructure Financing Plan



Prepared by:
The Humboldt County
Economic Development Division



With assistance from Kosmont Companies



Project Schedule



HUMBOLDT BAY OFFSHORE WIND HEAVY LIFT MARINE TERMINAL: PROJECT TIMELINE (as of Q4 2023)

Work Category	Project Task	2023				2024				2025				2026				2027				2028				2029			
		Jun	Jul	Aug	Sep	Oct	Nov	Dec	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
Consultant Coordination	Intensive Design Workshops		TA-3		TA-3		TA-3		TA-5		TA-5		TA-5																
	Weekly Meetings (PM)				TA-3				TA-5		TA-5		TA-6		TA-6														
Outreach and Engagement	Coordination with Tribal Governments				TA-3				TA-5		TA-5																		
	AB-52 Consultation with Tribal Governments				TA-3				TA-5		TA-5																		
	Project Labor Agreement			★																									
	Implementation of Community Engagement Strategy																												
	Engagement with Interested Parties & Affected Communities: Fishermen, neighbors, NGOs, etc.				TA-3				TA-5		TA-5																		
Funding and Grant Applications	Port Infrastructure Development Program (Federal) (will serve as funding for TA-5)		★					award																					
	MPDG Grant Program (MEGA and INFRA) (Federal) (will serve as funding for TA-6)			★					award																				
Data Collection	Others tbd (grants needed if: above are not secured; and for construction of Phases 2-4)							tbd	tbd			tbd	tbd																
	Upland Geotechnical Borings and Analysis				TA-3																								
	Marine Geotechnical Borings and Analysis								TA-5																				
	Sediment Testing, Analysis, and Sampling								TA-5																				
	Supplemental cultural resource and archaeological surveys								tbd																				
	Supplemental terrestrial biological surveys								tbd																				
Analysis Work	Supplemental marine biological surveys								tbd																				
	ROW, Title Reports, Boundary Surveying, Site Surveying (Land & Bathymetry)				TA-3																								
	Dredged Material Management Planning, Coordination, Analysis					TA-3			TA-5																				
	Air Quality Analysis, Terminal Electrification Plan, and Green Construction Plan				TA-3				TA-5																				
	Living Shoreline/Bank/Dredge Slope Stabilization Assessment/Analysis				TA-3				TA-5																				
	USACE Sect 408 Analysis - Hydrodynamics, Sed Transport, Local Wet Storage								TA-5																				
	Land Transportation Analysis				TA-3				TA-5																				
	USCG Analysis – Aids to Navigation, Vessel Maneuvering, and Navigation Analysis								TA-5																				
	Off-Terminal Habitat Assessments/Surveys				TA-3			TA-3	TA-5																				
	Visualization and Noise Analyses/Studies								TA-5																				
Engineering Design	Coastal/Navigation/Hydrology/SLR/Tsunami Analysis				TA-3				TA-5																				
	Power/Electrical/Green Port Analysis				TA-3				TA-5																				
	Agency Coordination					TA-3			TA-5																				
	Civil Engineering and Site Design					TA-3			TA-5																				
	Marine Engineering Design					TA-3			TA-5																				
Regulatory/ Permitting	Cost Estimates/Constructability/Quantities					TA-3			TA-5																				
	15% Design					TA-3			TA-5																				
	Finalize Basis of Design							TA-3																					
	30% Design and Construction Scenarios								TA-5																				
	CEQA Environmental Setting					TA-3																							
	Finalize Project Description							TA-3																					
Regulatory/ Permitting	CEQA Notice of Preperation / Scoping				TA-3																								
	CEQA Initial Study					TA-3																							
	CEQA Environmental Impact Report								TA-3		★																		
	NEPA Environmental Impact Statement								TA-3		★																		
	Obtain Permits (including Zoning and LCP)					TA-3			★		★																		
	Marine Geotechnical Investigation Permitting					TA-3		★	★		★																		

MILESTONE: Permitting Complete

MILESTONE: Terminal Construction Begins



SCHEDULE SUMMARY

- CEQA, NEPA, Permits – Q1 2025
- Mitigation Construction – Late 2025
- Phase 1 Project Construction begins – Q3 2026
- Phase 1 ready for operations - 2029



What would HBHRCD do w/ AB 209 funds?

- Marine geotechnical work
- Mitigation land purchase
- Enhanced green port initiative (zero emissions planning)
- Construction of ground-mounted solar
- Microgrid planning and implementation
- Berth sediment management site
- Nearshore restoration
- Matching funds





HUMBOLDT BAY HARBOR, RECREATION, & CONSERVATION DISTRICT

A Special District of the State of California



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Meetings & Agendas

- March 9, 2023 Development Association Special Meeting Agenda
- March 9, 2023 Regular Board Meeting Agenda
- February 9, 2023 Regular Board Meeting Agenda
- January 18, 2023 Humboldt Bay Development Association Agenda
- January 12, 2023 Amended Regular Board Meeting Agenda
- January 12, 2023 Regular Board Meeting Agenda
- January 7, 2023 Special Board Meeting Agenda
- December 21, 2022 Humboldt Bay Development Association Agenda
- July 20th 2022 HBDA-Agenda Packet
- July 14th 2022 Agenda
- July 14th 2022 Agenda Packet
- April 27, 2022 Special Board Meeting Agenda
- April 14, 2022 Regular Board Meeting Agenda
- March 10, 2022 Regular Board Meeting Agenda
- February 10, 2022 Regular Board Meeting Agenda
- January 13, 2022 Regular Board Meeting Agenda
- December 9, 2021 Regular Board Meeting Agenda
- November 4, 2021 Special Board Meeting Agenda
- October 14, 2021 Regular Board Meeting



Public Comment Period for offshore Wind Energy in Humboldt Bay

Please find attached a [link](#) to the Federal Register seeking public comment on the Pacific Coast Port Access Route Study, PAC-PARS. There are specific inquires within the Federal Register pertaining to the BOEM Wind Energy Call Area offshore of Humboldt Bay. **Comment period closes May 26, 2022.**

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Intro to Offshore Wind_ Why, Who, How, Where, & When (long version)

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Introduction to offshore wind and a proposed project by the Humboldt Port Authority. Provides general background regarding floating offshore wind, the BOEM lease areas, wind turbines, shipping,...

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Aker Offshore Wind

Thank You

