



US Army Corps  
of Engineers®  
New England District

## PUBLIC NOTICE

**Comment Period Begins:** July 25, 2023

**Comment Period Ends:** August 25, 2023

**File Number:** NAE-2023-00973

**In Reply Refer to:** Christine Jacek

**Phone:** (978) 318-8026

**Email:** [Christine.M.Jacek@usace.army.mil](mailto:Christine.M.Jacek@usace.army.mil)

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The District Engineer, U.S. Army Corps of Engineers, New England District (USACE), has received a permit application, file number NAE-2023-00973, to conduct work in waters of the United States from Matthew Waldrip representing NSTAR Electric Company d/b/a Eversource Energy. This work is proposed in Vineyard Sound between Surf Drive, Falmouth, Massachusetts and Eastville Avenue in Oak Bluffs, Massachusetts. The end point coordinates for the project are Latitude: 41.542404 Longitude: -70.617339 (Falmouth Landing) and Latitude: 41.462752 Longitude: -70.581319 (Oak Bluffs Landing).

The work involves the construction of a 6.27-mile electrical transmission cable across Vineyard Sound. The cable will landfall off Surf Drive in Falmouth, Massachusetts and off Eastville Avenue in Oak Bluffs, Massachusetts. Approximately 29,860 linear feet (5.66 miles) of cable will be installed via trenchless jetplow and 3,253 feet (0.62 miles) of cable will be installed via horizontal directional drilling (HDD). Approximately 2,153 ft. of HDD will occur to Falmouth landfall and 1,100 ft. of HDD will occur to Oak Bluffs landfall. Jetplow installation will bury the cable 6 to 10 feet below the seabed. HDD installation will bury the cable 60 to 80 feet below the seabed.

The work is shown on the enclosed plans entitled "NSTAR ELECTRIC COMPANY d/b/a EVERSOURCE ENERGY PROJECT 21012 FIFTH (5) 23KV SUBMARINE LINE #70 TO OAK BLUFFS FROM STATION #933 FALMOUTH & MARTHA'S VINEYARD, MA," on twenty-three (23) sheets, and dated "2022-11-18".

The project has been designed to avoid and minimize adverse effects to waters of the United States. HDD installation will occur in nearshore areas to avoid impacts to sensitive habitats such as eelgrass near the landfall sites. Installation of the cable via jetplow will result in temporary effects that are anticipated to revert back to pre-impact conditions within a few tidal cycles. No loss of waters of the U.S. is proposed and no permanent discharges of fill are proposed.

### AUTHORITY

Permits are required pursuant to:

- Section 10 of the Rivers and Harbors Act of 1899  
 Section 404 of the Clean Water Act  
 Section 103 of the Marine Protection, Research and Sanctuaries Act.

The decision whether to issue a permit will be based on an evaluation of the probable impact of the proposed activity on the public interest. That decision will reflect the

national concern for both protection and utilization of important resources. The benefit which may reasonably accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered, including the cumulative effects thereof; among those are: conservation, economics, aesthetics, general environmental concerns, wetlands, cultural value, fish and wildlife values, flood hazards, flood plain value, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food production and, in general, the needs and welfare of the people.

The USACE is soliciting comments from the public; federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. The USACE will consider all comments received to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an environmental assessment and/or an environmental impact statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

## **ESSENTIAL FISH HABITAT**

The Magnuson-Stevens Fishery Conservation and Management Act, as amended by the Sustainable Fisheries Act of 1996 (Public Law 104-267), requires all federal agencies to consult with the National Marine Fisheries Service on all actions, or proposed actions, permitted, funded, or undertaken by the agency, that may adversely affect Essential Fish Habitat (EFH). Essential Fish Habitat describes waters and substrate necessary for fish for spawning, breeding, feeding or growth to maturity.

This project will impact 7.7 acres of EFH. This habitat consists of medium to coarse grain sands, hard bottom habitat, and complex bottom habitat. Loss of this habitat may adversely affect species that use these waters and substrate. However, the District Engineer has made a preliminary determination that the site-specific adverse effect will not be substantial. Further consultation with the National Marine Fisheries Service regarding EFH conservation recommendations is being conducted and will be concluded prior to the final decision.

## **NATIONAL HISTORIC PRESERVATION ACT**

Based on our initial review of the proposed project, no historic properties were identified within the permit area. Additional review and consultation to fulfill requirements under Section 106 of the National Historic Preservation Act of 1966, as amended, will be ongoing as part of the permit review process.

## **ENDANGERED SPECIES CONSULTATION**

The USACE has reviewed the application for the potential impact on federally-listed threatened or endangered species and their designated critical habitat pursuant to section 7 of the Endangered Species Act (ESA) as amended. It is our preliminary determination that the proposed activity for which authorization is being sought is designed, situated or will be operated/used in such a manner that it is not likely to adversely affect a listed species or their critical habitat. We are coordinating with the National Marine Fisheries Service and/or U.S. Fish and Wildlife Service on listed species under their jurisdiction and the ESA consultation will be concluded prior to the final decision.

## **OTHER GOVERNMENT AUTHORIZATIONS**

The states of Connecticut, Maine, Massachusetts, New Hampshire and Rhode Island have approved Coastal Zone Management Programs. Where applicable, the applicant states that any proposed activity will comply with and will be conducted in a manner that is consistent with the approved Coastal Zone Management Program. By this public notice, we are requesting the state concurrence or objection to the applicant’s consistency statement.

The following authorizations have been applied for, or have been, or will be obtained:

- (X) Permit, license or assent from State.
- (X) Permit from local wetland agency or conservation commission.
- (X) Water Quality Certification in accordance with Section 401 of the Clean Water Act.

## **COMMENTS**

The Corps of Engineers is soliciting comments from the public; Federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general

CENAE-R

File No. NAE-2023-00973 – Martha's Vineyard Reliability Project

environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity. People submitting comments are advised that all comments received will be available for public review in their entirety and will be considered a matter of public record.

Comments should be submitted in writing by the above date. If you have any questions, please contact Christine Jacek at [Christine.M.Jacek@usace.army.mil](mailto:Christine.M.Jacek@usace.army.mil), (978) 318-8026, (800) 343-4789 or (800) 362-4367.

Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider the application. Requests for a public hearing shall specifically state the reasons for holding a public hearing. The USACE holds public hearings for the purpose of obtaining public comments when that is the best means for understanding a wide variety of concerns from a diverse segment of the public.

The initial determinations made herein will be reviewed in light of facts submitted in response to this notice. Copies of letters of objection will be forwarded to the applicant who will normally be requested to contact objectors directly in an effort to reach an understanding.

**THIS NOTICE IS NOT AN AUTHORIZATION TO DO ANY WORK.**

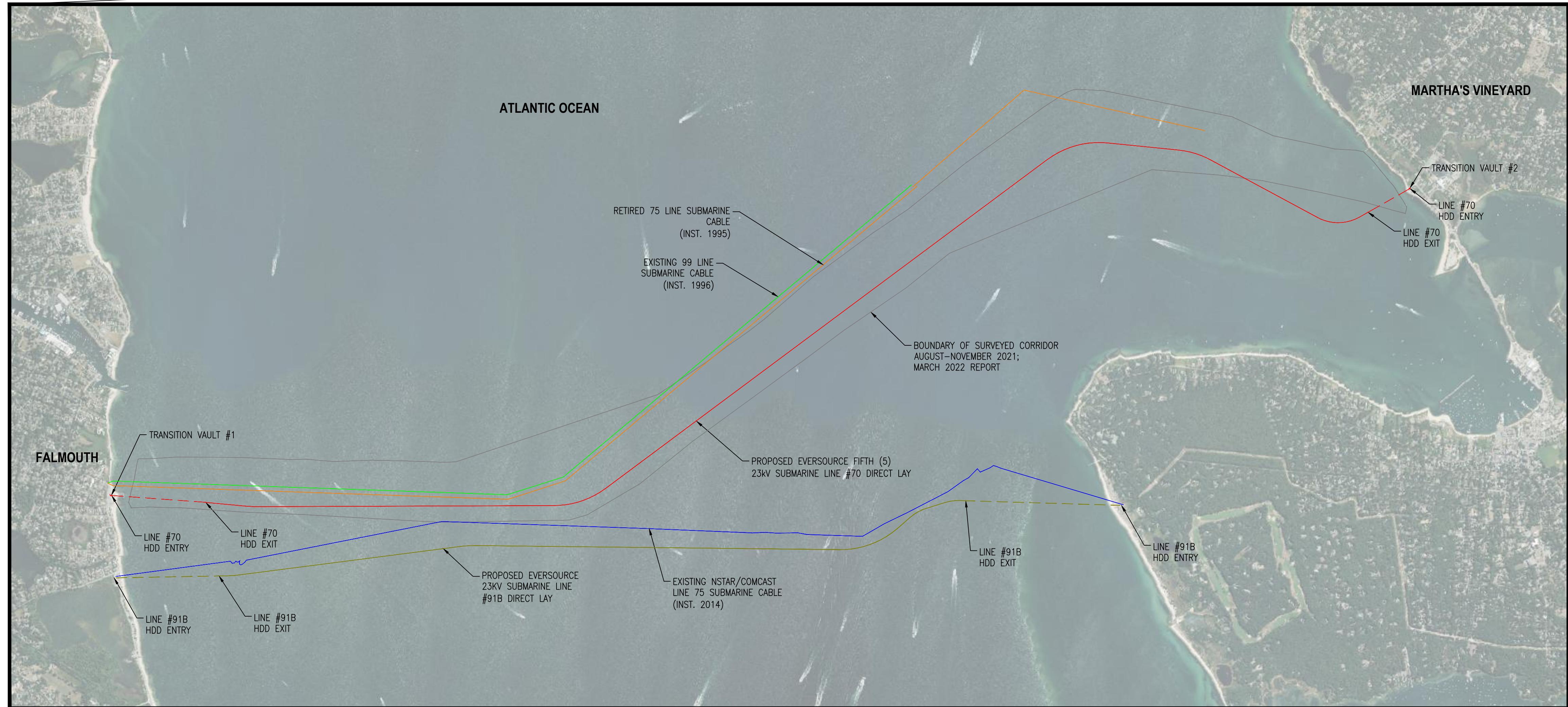
*Paul Maniccia*

Paul M. Maniccia  
Chief, Permits & Enforcement Branch  
Regulatory Division

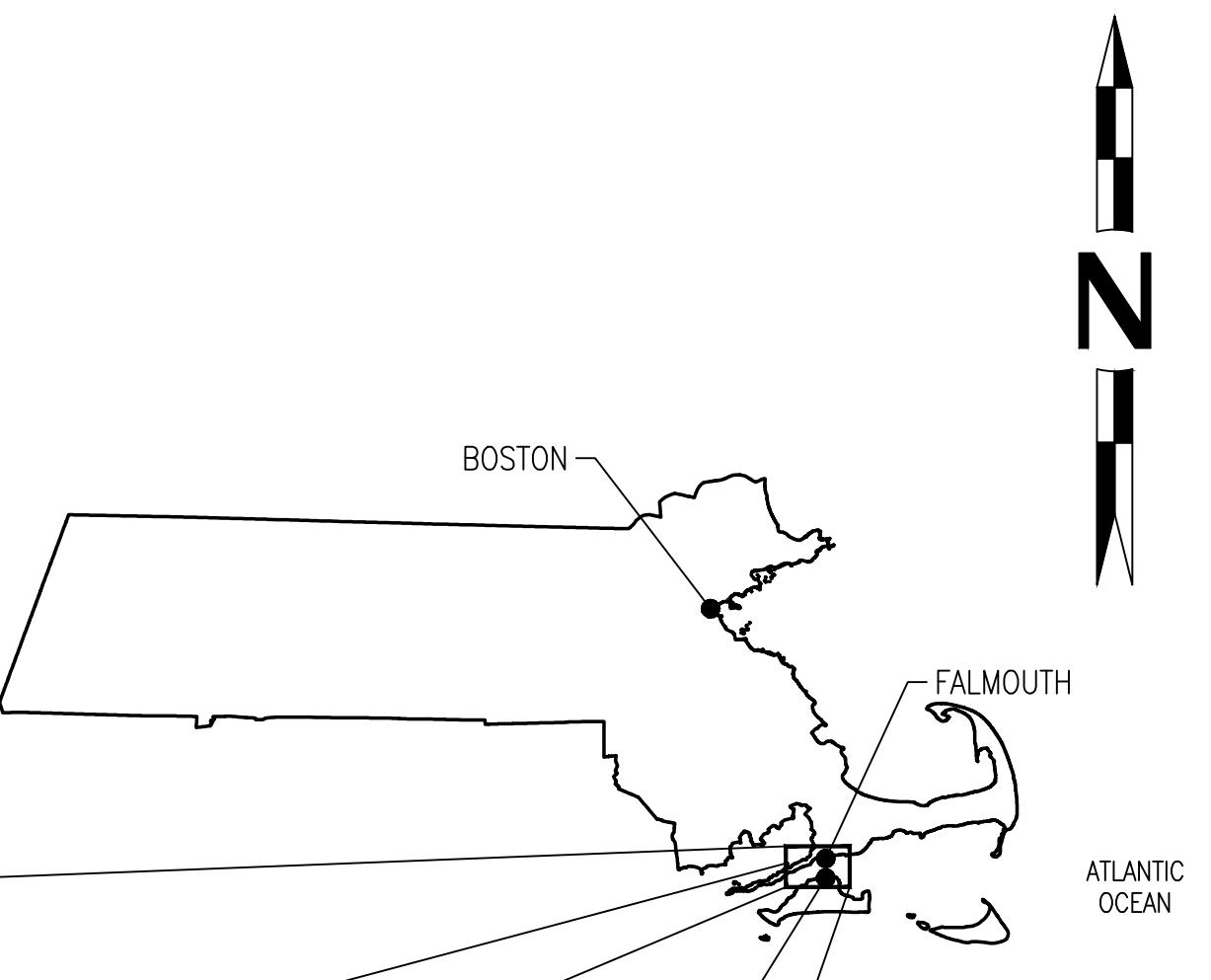
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Please contact Ms. Tina Chaisson at [bettina.m.chaisson@usace.army.mil](mailto:bettina.m.chaisson@usace.army.mil) or (978) 318-8058 if you would like to be removed from our public notice mailing list.

NSTAR ELECTRIC COMPANY d/b/a EVERSOURCE ENERGY  
 PROJECT 21012 FIFTH (5) 23kV SUBMARINE LINE #70  
 TO OAK BLUFFS FROM STATION #933  
 FALMOUTH & MARTHA'S VINEYARD, MA



AREA MAP  
MASSACHUSETTS  
N.T.S.



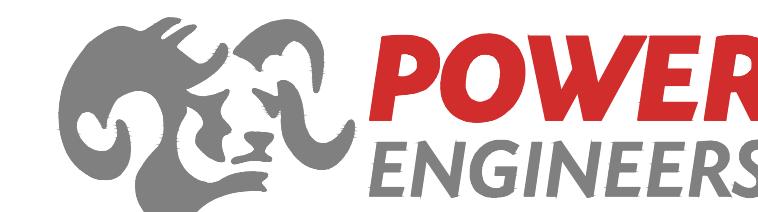
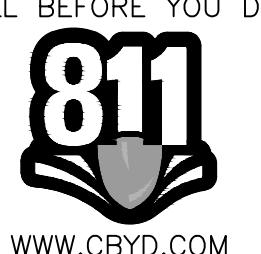
VICINITY MAP  
N.T.S.

NSTAR  
DESIGN ENGINEER:

NSTAR  
WORK ORDER NUMBER: 80047133

POWER ENGINEERS  
PROJECT ENGINEER: THOMAS BUONOMANO

POWER ENGINEERS  
PROJECT NUMBER: 0237849\_0000



E	03/23/2023	ISSUED FOR PERMITTING	ASW	TPB	TPB
D	01/30/2023	ADDED HDD CALLOUTS – NO ALIGNMENT CHANGE	ASW	TPB	TPB
C	12/19/2022	ISSUED FOR REVIEW – ADDED ENVIRONMENTAL LAYERS FROM EVS	LAS	TPB	TPB
B	11/18/2022	ISSUED FOR REVIEW – REVISED 30% PLAN	LAS	TPB	ASW
A	11/11/2022	ISSUED FOR REVIEW – 30% PLAN	LAS	TPB	TPB
No	DATE	REVISION	BY	CHKD	ENGR
				SUPV	

EVERSOURCE

PROJ #	0237849_0000
WORK #	80047133
DRAWN	DRC
CHECKED	TPB
DESIGN ENG	ASW
DESIGN SUPV	TPB
DATE	2022-11-18
SCALE	N.T.S.
SHEET NAME	1 OF 23
SHEET NAME	1

MARTHA'S VINEYARD SUBMARINE LINE #70  
FALMOUTH TO MARTHA'S VINEYARD, MA  
COVER SHEET

## GENERAL NOTES

1. THE PLANIMETRICS, UTILITIES AND NATURAL FEATURES SHOWN HEREON ARE BASED ON FIELD SURVEYS, AERIAL PHOTOGRAPHY AND RECORD DOCUMENTS SHOWN BELOW IN BULLETED LIST. OTHER FACILITIES MAY EXIST NOT DISCOVERED THROUGH THE RECORD CHECK AND OTHER UTILITY LOCATING ACTIVITIES. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION, BOTH HORIZONTAL AND VERTICAL, OF ALL UTILITIES THROUGH THE APPROPRIATE UTILITY COMPANIES. CALL BEFORE YOU DIG, 811 OR (888) 344-7233.

- EXISTING CABLE LOCATIONS CIRCUIT 91, 97, 99, 75, AND RETIRED LINES 100 & 75, PROVIDED BY CALDWELL NSTAR/COMCAST HYBRID SUBMARINE CABLE PROJECT CABLE AS-BUILTS ISSUED JUNE 26, 2014.
- EASTVILLE AVE EXISTING CONDITIONS LAND SURVEY PROVIDED BY CHA COMPANY ISSUED 06/30/2022.
- FALMOUTH EXISTING CONDITIONS LAND SURVEY PROVIDED BY BSC GROUP ISSUED 02/10/2022, UPDATED 11/29/22.
- BATHYMETRY, SIDE SONAR TABLE, MAGNETIC ANOMALIES TABLE, SEAGRASS SURVEY, AND VIBRACORE/GRAB SAMPLES PROVIDED BY CR ENVIRONMENTAL IN GEOPHYSICAL AND UNDERWATER VIDEO SURVEYS SEDIMENT SAMPLING EVERSOURCE 5TH CABLE VINEYARD SOUND, FALMOUTH AND VINEYARD HAVEN REPORT DATED MARCH 2022.
- SURFACES DERIVED FROM NOAA CHART 13229 SOUTH COAST OF CAPE COD AND BUZZARDS BAY MASSACHUSETTS NORTH AMERICAN DATUM OF 1983.
- ENVIRONMENTAL SURVEY LAYERS (FEMA FLOOD ZONE 100-YEAR, LANDWARD LIMIT OF COASTAL BEACH, 100' BUFFER FROM COASTAL BEACH, COASTAL DUNE, EELGRASS AND HARD COMPLEX BOTTOM) COMPILED BY EPSILON AND PROVIDED BY EVERSOURCE 12/02/2022 AND 03/15/2023.

2. VERTICAL DATUM IS BASED ON NAVD 1988, HORIZONTAL DATUM IS BASED ON MASSACHUSETTS PLANE COORDINATE SYSTEM, MAINLAND ZONE GRID, VALUES IN US FEET, NAD 1983 (NAD 83/11).

3. VERTICAL LOCATION OF SUBSURFACE UTILITY LINES ARE BASED ON ASSUMED DEPTHS USING BEST AVAILABLE INFORMATION AND MAY VARY FROM THE ACTUAL VERTICAL LOCATIONS. BUILDING SERVICE CONNECTIONS (ELECTRIC, GAS, TELEPHONE, WATER AND SANITARY) ARE NOT SHOWN. CONTRACTOR IS TO ASSUME SERVICES ARE PRESENT TO ALL BUILDINGS.

4. DETAIL DESIGN MAY BE OPTIMIZED TO REFLECT ACTUAL CONDITIONS WITH OWNER REVIEW AND ACCEPTANCE.

5. ALL THE WORK SHALL BE PERFORMED WITHIN THE DESIGNATED PROPERTIES AS NOTED ON THE DRAWINGS.

6. ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE RETURNED TO THEIR ORIGINAL CONDITION OR BETTER AS DETERMINED BY OWNER AND IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, AND THE APPLICABLE FEDERAL, STATE AND LOCAL REQUIREMENTS.

7. CIVIL CONTRACTOR SHALL HAUL AWAY ALL UNUSED EXCAVATED MATERIAL TO PERMITTED SOIL DISPOSAL SITE PROJECT SPECIFICATIONS, AND THE APPLICABLE FEDERAL, STATE AND LOCAL REQUIREMENTS.

8. CIVIL CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY & ALL UTILITIES AND FACILITIES (INCLUDING THOSE NOT SHOWN ON THE DRAWINGS) DAMAGED DURING CONSTRUCTION IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, APPLICABLE UTILITY SPECIFICATION, FEDERAL, STATE AND LOCAL REQUIREMENTS.

9. ABANDONED UTILITIES SHALL BE CUT AND CAPPED AS NECESSARY WITH UTILITY OWNER REVIEW AND ACCEPTANCE. ABANDONED GAS LINES SHALL NOT BE CUT.

10. CIVIL CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING BEST MANAGEMENT PRACTICES FOR CONTROLLING EROSION AND SEDIMENTATION IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, THE APPLICABLE FEDERAL, STATE AND LOCAL REQUIREMENTS.

11. CIVIL CONTRACTOR SHALL RESTORE GRADE TO PRE-CONSTRUCTION ELEVATIONS UNLESS OTHERWISE NOTED ON THE DRAWINGS.

12. ALL VERTICAL RADII ARE 400' AND ALL HORIZONTAL RADII ARE 500' UNLESS OTHERWISE NOTED ON THE DRAWINGS.

13. PROPOSED SUBMARINE CABLE SHALL MAINTAIN MINIMUM HORIZONTAL CLEARANCES TO OTHER UTILITIES AS SPECIFIED IN THE PROJECT SPECIFICATION OR AS SHOWN ON THE DRAWINGS. CONTRACTOR SHALL NOTIFY OWNER OF ALL UNDOCUMENTED UTILITIES DISCOVERED DURING CONSTRUCTION THAT IMPEDE ON THE REQUIRED CLEARANCES TO THE PROPOSED DUCT BANK.

14. PRINTED COPIES ARE NOT DOCUMENT CONTROLLED. CONTRACTOR IS RESPONSIBLE FOR ENSURING PRINTED COPIES ARE THE LATEST REVISION.

15. PROPOSED CABLE PROFILE IS SHOWN BASED ON SURVEYED PROFILE CONDITIONS. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING MINIMUM BURIAL DEPTH REQUIREMENTS PER PERMITTING AND OWNER REQUIREMENTS.

## LEGEND: PROPOSED

- PROPOSED HDD EXIT/ENTRY
- PROPOSED FIFTH (5) 23KV SUBMARINE LINE #70 (DIRECT LAY CABLE)
- PROPOSED FIFTH (5) 23KV SUBMARINE LINE #70 (BY HDD)
- PROPOSED VAULT

ENVIRONMENTAL LAYERS PROVIDED BY EVERSOURCE 12-02-2022 AND 03-15-2023

## LEGEND: DIVER TARGETS

- m-XXX MAGNETIC ANOMALIES
- c-XXX SIDE SCAN SONAR TARGETS
- g-XXX GRAB TARGETS
- vc-XXX VIBRACORE TARGETS

DUNE COASTAL DUNE  
FEMA FLOOD ZONE 100-YEAR  
COASTAL LANDWARD LIMIT OF COASTAL BEACH  
100' BUFFER FROM COASTAL BEACH

HARD COMPLEX BOTTOM  
EELGRASS  
GUARDRAIL  
STONE WALL  
TREELINE  
BRUSHLINE  
GRASSED AREA

ASBESTOS CEMENT  
CAST IRON  
DUCTILE IRON  
POLYVINYL CHLORIDE  
REINFORCED CONCRETE PIPE

EXISTING NSTAR/COMCAST 75 LINE  
RETired 75 LINE  
EXISTING 99 LINE  
RETired 100 LINE  
PROPOSED 91B LINE  
MEAN HIGH WATER

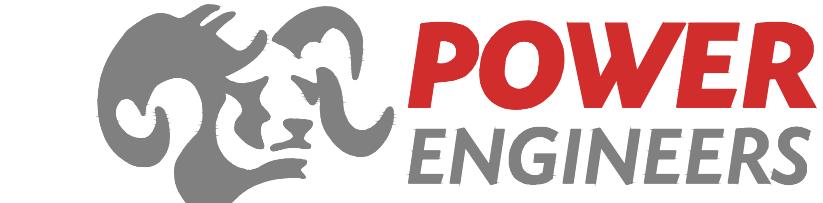
DRAWING MANIFEST			
DRAWING NO.	TITLE/DESCRIPTION	REVISION	DATE
1	COVER SHEET	D	01/30/2023
2	DRAWING MANIFEST & GENERAL NOTES	D	01/30/2023
3	SURVEY TABLES	D	01/30/2023
4	SURVEY TABLES	D	01/30/2023
5	SURVEY TABLES	D	01/30/2023
6	PLAN & PROFILE VIEW STA. -1+00 TO 4+00	D	01/30/2023
7	PLAN & PROFILE VIEW STA. 4+00 TO 9+00	D	01/30/2023
8	PLAN & PROFILE VIEW STA. 9+00 TO 14+00	D	01/30/2023
9	PLAN & PROFILE VIEW STA. 14+00 TO 19+00	D	01/30/2023
10	PLAN & PROFILE VIEW STA. 19+00 TO 22+00	D	01/30/2023
11	PLAN & PROFILE VIEW STA. 22+00 TO 82+00	D	01/30/2023
12	PLAN & PROFILE VIEW STA. 82+00 TO 142+00	D	01/30/2023
13	PLAN & PROFILE VIEW STA. 142+00 TO 202+00	D	01/30/2023
14	PLAN & PROFILE VIEW STA. 202+00 TO 262+00	D	01/30/2023
15	PLAN & PROFILE VIEW STA. 262+00 TO 319+00	D	01/30/2023
16	PLAN & PROFILE VIEW STA. 319+00 TO 324+00	D	01/30/2023
17	PLAN & PROFILE VIEW STA. 324+00 TO 329+00	D	01/30/2023
18	PLAN & PROFILE VIEW STA. 329+00 TO 331+30	D	01/30/2023
19	DETAILS	D	01/30/2023
20	FALMOUTH HDD EQUIPMENT LAYOUT	D	01/30/2023
21	OAK BLUFFS HDD EQUIPMENT LAYOUT	D	01/30/2023
22	MARINE ENVIRONMENTAL LAYER OVERVIEW	D	01/30/2023
23	MARINE ENVIRONMENTAL LAYER OVERVIEW	D	01/30/2023



VICINITY MAP  
N.T.S.

## FALMOUTH EXISTING CONDITIONS LAND SURVEY LEGEND:

□ STONE BOUND	PARCEL BOUNDARY LINE
□ STONE BOUND W/DRILL HOLE	EASEMENT LINE
□ STONE BOUND W/ESCUTCHEON PIN	ADJOINING PARCEL LINE
□ CONCRETE BOUND	STREET/HIGHWAY LINE
□ CONCRETE BOUND W/DRILL HOLE	ELECTRIC LINE
⊗ IRON PIPE	SEWER LINE
● IRON ROD	DRAINAGE LINE
• DRILL HOLE	WATER LINE
○ PK NAIL	OVERHEAD UTILITY LINE
□ CABLE HANHOLE	TREE LINE
□ SEWER MANHOLE	MASS. HIGHWAY BOUND
□ DRAIN MANHOLE	CONCRETE BOUND WITH DRILL HOLE
□ ELECTRIC CONTROL BOX	REBAR
□ ELECTRIC MANHOLE	SPOT GRADE
□ TELEPHONE MANHOLE	SIGN
□ CABLE MANHOLE	SIGN - DOUBLE POST
□ MANHOLE	WATER GATE
□ CATCH BASIN	WATER SHUTOFF
□ HYDRANT	WF#
□ WATER GATE	MAIL BOX
□ GAS GATE	CB
□ UTILITY POLE	SEWER MANHOLE
□ UTILITY POLE W/LIGHT	DRAINAGE MANHOLE
□ UTILITY POLE W/TRANSFORMER	EHH
□ GUY ANCHOR	ELECTRIC MANHOLE
□ TS TRAFFIC SIGNAL	TREE
□ LAMP OR STREET LIGHT	DECIDUOUS TREE
□ ELECTRIC HANHOLE	22"
□ WATER METER	UTILITY POLE W/ LIGHT
□ SIGN	GUY WIRE
□ MAIL BOX	VENT PIPE
□ METAL POST	
□ FLAG POLE	
△ INV. INVERT	
□ SFM SEWER FORCE MAIN	EXISTING NSTAR/COMCAST 75 LINE
□ S SEWER LINE	RETired 75 LINE
□ D DRAIN LINE	EXISTING 99 LINE
□ W WATER LINE	RETired 100 LINE
□ G GAS LINE	PROPOSED 91B LINE
□ FO FIBER OPTIC LINE	MHW
□ E UNDERGROUND ELECTRIC CONDUIT	
□ OHW OVERHEAD WIRE	
□ X CHAIN LINK FENCE	
□ □ RAIL FENCE	
□ FENCE	
□ GUARDRAIL	
□ AC ASBESTOS CEMENT	
□ CI CAST IRON	
□ DICL DUCTILE IRON	
□ PVC POLYVINYL CHLORIDE	
□ RCP REINFORCED CONCRETE PIPE	
□ GRASSED AREA	



## DIGITIZED MAGNETIC ANOMALIES (1 OF 3)

ID	HYPACK Name	X	Y	Lat	Long	Peak_Spread (nT)	Time_Elapsed (sec)	Distance Over Ground (m)	Signature Class	Source	Line
M-1	MAGTGT (272.64)	367867	4591692	41.46594715	-70.58228323	272.6	15.3	29.6	Multiple Component	MAGEDIT	20
M-2	MAGTGT (34.07)	367890	4591859	41.46745462	-70.58204447	34.1	7.8	14.6	Dipolar	MAGEDIT	20
M-3	MAGTGT (22.54)	367963	4592220	41.47071711	-70.5812496	22.5	7.5	12.9	Dipolar	MAGEDIT	18
M-4	MAGTGT (12.95)	367933	4591963	41.46839812	-70.58155249	13.0	7.5	12.7	Multiple Component	MAGEDIT	18
M-5	MAGTGT (75.85)	367924	4591914	41.46795544	-70.5816495	75.9	11.0	18.2	Dipolar	MAGEDIT	18
M-6	MAGTGT (175.46)	367950	4592134	41.46994062	-70.5813864	175.5	11.0	18.3	Dipolar	MAGEDIT	18
M-7	MAGTGT (21.96)	367903	4591744	41.46642129	-70.58186368	22.0	7.5	13.8	Monopolar	MAGEDIT	18
M-8	MAGTGT (33.18)	367888	4591653	41.46559945	-70.58020331	33.2	17.0	30.4	Multiple Component	MAGEDIT	18
M-9	MAGTGT (220.00)	367909	4592045	41.4691325	-70.58185774	220.0	33.5	63.1	Multiple Component	MAGEDIT	20
M-10	MAGTGT (36.72)	367950	4592307	41.47149832	-70.58142427	36.7	8.0	17.0	Dipolar	MAGEDIT	20
M-11	MAGTGT (12.09)	367954	4592404	41.47237237	-70.58139761	12.1	7.1	15.1	Monopolar	MAGEDIT	20
M-12	MAGTGT (25.70)	368102	4592460	41.47290095	-70.57963804	25.7	23.8	36.4	Dipolar	MAGEDIT	11
M-13	MAGTGT (25.70)	368102	4592460	41.47290095	-70.57963804	25.7	23.8	36.4	Dipolar	MAGEDIT	11
M-14	MAGTGT (44.38)	368001	4591791	41.46686061	-70.58070083	44.4	13.5	23.7	Dipolar	MAGEDIT	11
M-15	MAGTGT (12.39)	367998	4591677	41.46583366	-70.58071181	12.4	6.7	12.1	Monopolar	MAGEDIT	11
M-16	MAGTGT (296.86)	367879	4591676	41.46580506	-70.58213608	296.9	30.5	60.2	Multiple Component	MAGEDIT	19
M-17	MAGTGT (20.20)	367906	4591856	41.46743024	-70.58185228	20.2	10.3	19.9	Monopolar	MAGEDIT	19
M-18	MAGTGT (20.89)	367914	4591921	41.46801682	-70.58177074	20.9	7.2	12.0	Dipolar	MAGEDIT	19
M-19	MAGTGT (90.28)	367924	4592140	41.46999332	-70.58148349	90.3	7.7	15.6	Dipolar	MAGEDIT	19
M-20	MAGTGT (96.66)	368048	4591965	41.46843506	-70.58017626	96.7	19.3	34.3	Dipolar	MAGEDIT	10
M-21	MAGTGT (14.43)	368028	4591768	41.46665796	-70.58037259	14.4	8.3	17.1	Dipolar	MAGEDIT	10
M-22	MAGTGT (16.70)	368002	4591587	41.46502395	-70.58064424	16.7	6.8	12.9	Dipolar	MAGEDIT	10
M-23	MAGTGT (47.88)	367915	4591713	41.46614414	-70.58171324	47.9	12.3	29.7	Monopolar	MAGEDIT	17
M-24	MAGTGT (46.11)	367938	4591881	41.46766061	-70.58147469	46.1	9.5	17.4	Dipolar	MAGEDIT	17
M-25	MAGTGT (14.36)	367962	4592063	41.4693033	-70.58122721	14.4	6.6	15.3	Dipolar	MAGEDIT	17
M-26	MAGTGT (23.77)	368003	4592406	41.47239844	-70.58081144	23.8	12.0	22.4	Dipolar	MAGEDIT	17
M-27	MAGTGT (4256.55)	368178	4592312	41.47158084	-70.57869584	4256.6	7.5	14.3	Multiple Component	MAGEDIT	5
M-28	MAGTGT (34.16)	367932	4591751	41.4664891	-70.58151806	34.2	9.3	23.2	Monopolar	MAGEDIT	16
M-29	MAGTGT (36.68)	367948	4591850	41.46738313	-70.58134819	36.7	9.3	17.1	Multiple Component	MAGEDIT	16
M-30	MAGTGT (10.74)	367981	4592099	41.46963058	-70.58100764	10.7	23.7	43.1	Multiple Component	MAGEDIT	16
M-31	MAGTGT (423.87)	368114	4591740	41.46641999	-70.579337	423.9	8.7	16.7	Dipolar	MAGEDIT	4
M-32	MAGTGT (75.66)	367984	4592014	41.46886572	-70.58095312	75.7	20.3	40.0	Dipolar	MAGEDIT	15
M-33	MAGTGT (51.62)	367993	4592072	41.46938944	-70.58085807	51.6	5.8	11.0	Monopolar	MAGEDIT	15
M-34	MAGTGT (11.28)	368003	4592148	41.4700754	-70.58075499	11.3	12.3	24.9	Multiple Component	MAGEDIT	15
M-35	MAGTGT (45.69)	368206	4592308	41.47154943	-70.57835976	45.7	7.8	13.6	Dipolar	MAGEDIT	3
M-36	MAGTGT (78.90)	368163	4591956	41.46837293	-70.57879763	78.9	8.0	13.9	Dipolar	MAGEDIT	3
M-37	MAGTGT (749.91)	368128	4591710	41.46615217	-70.57916285	749.9	16.5	30.4	Multiple Component	MAGEDIT	3
M-38	MAGTGT (38.93)	367942	4591566	41.46482499	-70.58135787	38.9	5.3	11.1	Dipolar	MAGEDIT	14
M-39	MAGTGT (27.20)	367959	4591675	41.46580923	-70.58117822	27.2	5.3	9.9	Monopolar	MAGEDIT	14
M-40	MAGTGT (137.68)	368041	4592231	41.47163935	-70.58033792	137.7	19.8	37.4	Multiple Component	MAGEDIT	14
M-41	MAGTGT (22.68)	368095	4592144	41.47005451	-70.57965275	22.7	18.8	36.8	Multiple Component	MAGEDIT	9
M-42	MAGTGT (56.66)	368049	4591835	41.46726469	-70.58013586	56.7	18.7	33.9	Multiple Component	MAGEDIT	9
M-43	MAGTGT (27.67)	367963	4591607	41.46519761	-70.58111546	27.7	8.3	19.1	Monopolar	MAGEDIT	13
M-44	MAGTGT (19.96)	367984	4591774	41.46670475	-70.58090602	20.0	5.5	13.3	Monopolar	MAGEDIT	13
M-45	MAGTGT (23.32)	367994	4591864	41.46751676	-70.5808006	23.3	6.5	15.8	Monopolar	MAGEDIT	13
M-46	MAGTGT (43.69)	368047	4592232	41.47083898	-70.58024662	43.7	16.8	39.1	Dipolar	MAGEDIT	13
M-47	MAGTGT (78.52)	368054	4592232	41.47165049	-70.58018251	78.5	13.0	29.8	Monopolar	MAGEDIT	13
M-48	MAGTGT (60.73)	368206	4592205	41.47062201	-70.57833726	60.7	11.8	18.8	Dipolar	MAGEDIT	2
M-49	MAGTGT (163.81)	368224	4592211	41.47067899	-70.57812309	163.8	12.3	21.8	Dipolar	MAGEDIT	1
M-50	MAGTGT (35.86)	368197	4592011	41.46887374	-70.57840263	35.9	9.5	16.4	Dipolar	MAGEDIT	1
M-51	MAGTGT (47.66)	368159	4591720	41.46624731	-70.57879395	47.7	7.5	15.4	Dipolar	MAGEDIT	1
M-52	MAGTGT (21.58)	368093	4592464	41.47293549	-70.57974666	21.6	28.0	45.9	Dipolar	MAGEDIT	12
M-53	MAGTGT (3848.51)	368075	4591660	41.46569325	-70.57987636	3848.5	8.3	17.0	Multiple Component	MAGEDIT	6
M-54	MAGTGT (3164.83)	368173	4592404	41.47240839	-70.57877558	31664.8	9.8	17.5	Multiple Component	MAGEDIT	6
M-55	MAGTGT (3695.06)	368389	4593784	41.48486948	-70.57649106	36957.1	11.5	18.5	Multiple Component	MAGEDIT	1
M-56	MAGTGT (5277.16)	367867	4594396	41.49029409	-70.58287566	52778.2	116.7	136.1	Multiple Component	MAGEDIT	1
M-57	MAGTGT (36.18)	367838	4594385	41.49019027	-70.58320252	3					

DIGITIZED MAGNETIC ANOMALIES (3 OF 3)

ID	HYPACK Name	X	Y	Lat	Long	Peak_Spread (nT)	Time_Elapsed (sec)	Distance Over Ground (m)	Signature Class	Source	Line
M-161	MAGTTG (58.57)	368062	4592850	41.47640596	-70.58020222	58.6	12.8	24.5	Dipolar	MAGEDIT	17
M-162	MAGTTG (58.57)	368062	4592850	41.47640596	-70.58020222	58.6	12.8	24.5	Dipolar	MAGEDIT	17
M-163	MAGTTG (17.26)	368081	4592991	41.47767865	-70.58000558	17.3	14.5	27.3	Multiple Component	MAGEDIT	17
M-164	MAGTTG (76.61)	368092	4593090	41.47857186	-70.57989554	76.6	22.0	43.5	Dipolar	MAGEDIT	17
M-165	MAGTTG (28.15)	368123	4593329	41.48072893	-70.57957664	28.2	18.1	33.6	Dipolar	MAGEDIT	17
M-166	MAGTTG (22.18)	368273	4593321	41.48068156	-70.5777789	22.2	16.0	27.9	Dipolar	MAGEDIT	7
M-167	MAGTTG (26.11)	368034	4592770	41.47568102	-70.58051995	26.1	10.8	30.1	Multiple Component	MAGEDIT	18
M-168	MAGTTG (14.28)	368033	4592852	41.47641919	-70.58054986	14.3	8.3	17.7	Multiple Component	MAGEDIT	19
M-169	MAGTTG (8.36)	368053	4593019	41.47792616	-70.58034694	8.4	12.7	27.5	Dipolar	MAGEDIT	19
M-170	MAGTTG (14.06)	368195	4593103	41.47870585	-70.57866517	14.1	25.3	42.2	Dipolar	MAGEDIT	10
M-171	MAGTTG (75.83)	367986	4592787	41.47582619	-70.58109834	75.8	13.0	23.3	Dipolar	MAGEDIT	21
M-172	MAGTTG (39.65)	368013	4592955	41.47734332	-70.58081185	39.7	12.5	27.0	Dipolar	MAGEDIT	21
M-173	MAGTTG (39.65)	368013	4592955	41.47734332	-70.58081185	39.7	12.5	27.0	Dipolar	MAGEDIT	21
M-174	MAGTTG (14.09)	368056	4593290	41.48036675	-70.58037032	14.1	15.5	32.5	Dipolar	MAGEDIT	21

NOTES:  
DIGITIZED MAGNETIC ANOMALIES TABLE PROVIDED BY CR ENVIRONMENTAL IN  
GEOPHYSICAL AND UNDERWATER VIDEO SURVEYS SEDIMENT SAMPLING EVERSOURCE  
5TH CABLE VINEYARD SOUND, FALMOUTH AND VINEYARD HAVEN REPORT DATED  
MARCH 2022.

SIDE SONAR CONTACTS (1 OF 2)

Target	ClickLat	ClickLon	X	Y	FishHeight	FishCmg	Ping Number	NadirDistance	RangeAtLeft Edge	RangeAtRight Edge	SonarRange et	RangeToTarg	PortOr Starboar d	Target On Port Side	Target Spans Channels	Samples PerChan	CsfTarget Row	FirstCsfRow	LastCsfRow	MapProjection	TopLeftLat	TopLeftLon	BotLeftLat	BotLeftLon	Classification	Notes	Height (m)	Length (m)	Width (m)	Shadow (m)	Scour (m)	
C-0001	41.53733929	-70.61353254	365405.3	4599666.5	3.554569057	179.6006271	102349	12.09920621	12.0992062	22.89962758	34.99883379	5.416280888	Stbd		0	1	1024	1677	1528	1826	UTM83-19	41.53749475	-70.6133613	41.53718749	-70.61328552	Boulder		0.7	2.3	1.3	1.3	0.0
C-0002	41.53057411	-70.61474858	365289.8	4598917.3	3.896354543	359.9554715	188907	6.801531177	6.80153118	28.19730262	34.99883379	10.7062729	Stbd		0	1	1024	23469	23286	23653	UTM83-19	41.530417	-70.61496069	41.53072633	-70.61492775	Cable or fishing gear	Dimensions given for central target	0.2	1.5	0.3	0.6	0.0
C-0003	41.53038608	-70.61522042	365250.1	4598897.2	5.581854	178.6850302	41188	34.99883379	34.9988338	0	34.99883379	20.89970067	Port	1	0	1024	7775	7613	7940	UTM83-19	41.53057335	-70.61506441	41.53022686	-70.6150652	Cable		0.3	0.0	0.3	1.1	0.0	
C-0004	41.5227963	-70.61235716	365473.2	4598050.0	10.332672	165.3420112	137918	0	0	34.99883379	34.99883379	26.03538854	Stbd		0	0	1024	17351	17185	17512	UTM83-19	41.52296055	-70.61208127	41.5227205	-70.61201916	Boulder Field		0.3	20.7	6.7	0.7	0.0
C-0005	41.52257561	-70.61306701	365413.5	4598026.6	10.708636	171.4412734	31298	25.49719728	25.4971973	9.501636518	34.99883379	7.999404097	Port	1	1	1024	21767	21598	21937	UTM83-19	41.52272466	-70.61288276	41.52248755	-70.61283903	Boulder		2.5	3.1	1.0	2.4	0.0	
C-0006	41.52137905	-70.61123163	365473.7	4597892.6	9.604172164	177.9318039	218903	0	0	34.99883379	34.99883379	18.56860984	Stbd		0	0	1024	15323	15138	15502	UTM83-19	41.52151808	-70.61210826	41.52125372	-70.61209038	Boulder		0.8	4.2	1.9	1.6	0.0
C-0007	41.51821197	-70.61161333	365525.8	4597539.9	5.786925	170.46797111	143080	0.820285167	0.82028517	34.17854863	34.99883379	16.70143173	Stbd		0	1	1024	22513	22351	22663	UTM83-19	41.5183881	-70.61146295	41.51809514	-70.61136536	Fishing Gear		0.8	0.7	0.9	2.7	0.0
C-0008	41.51809085	-70.61153074	365532.4	4597526.3	6.504674	195.643864	143271	3.964711641	3.96471164	31.03412215	34.99883379	13.55293299	Stbd		0	1	1024	22704	22565	22846	UTM83-19	41.51819449	-70.6113521	41.51792885	-70.61140064	Boulder		1.0	5.4	1.1	2.3	0.0
C-0009	41.51804314	-70.61144026	365539.9	4597520.9	7.017353	197.9495383	143302	12.47517025	12.4751702	22.52366355	34.99883379	5.027197644	Stbd		0	1	1024	22735	22603	22882	UTM83-19	41.51815212	-70.6112347	41.51787275	-70.61133574	Boulder		1.9	2.2	1.3	1.9	0.0
C-0010	41.5158296	-70.61345209	365367.4	4597278.3	6.026175	353.2918162	97253	9.194029581	9.19402958	25.80480421	34.99883379	8.323857117	Stbd		0	1	1024	7239	7070	7400	UTM83-19	41.51565824	-70.61363515	41.51596562	-70.61369164	Possible Cable Segment		0.2	17.7	0.3	0.3	0.0
C-0011	41.51083178	-70.61069882	365586.8	4596719.1	10.90295701	315.4830342	156760	0	0	34.99883379	34.99883379	24.84271962	Stbd		0	0	1024	1470	1314	1625	UTM83-19	41.51056529	-70.61079286	41.51078182	-70.61102966	Boulder		2.1	4.3	3.5	5.8	0.0
C-0012	41.51083092	-70.61228543	365454.4	4596721.5	0	317.2461203	207439	25.63178404	25.631784	9.364145104	34.99592915	8.161802268	Port	1	1	1024	30840	30661	31018	UTM83-19	41.51060758	-70.61229538	41.51084022	-70.61258173	Wreckage		0.0	7.0	1.6	0.2	0.0	
C-0013	41.51018308	-70.60829684	365785.9	4596643.3	6.060353	141.56																										

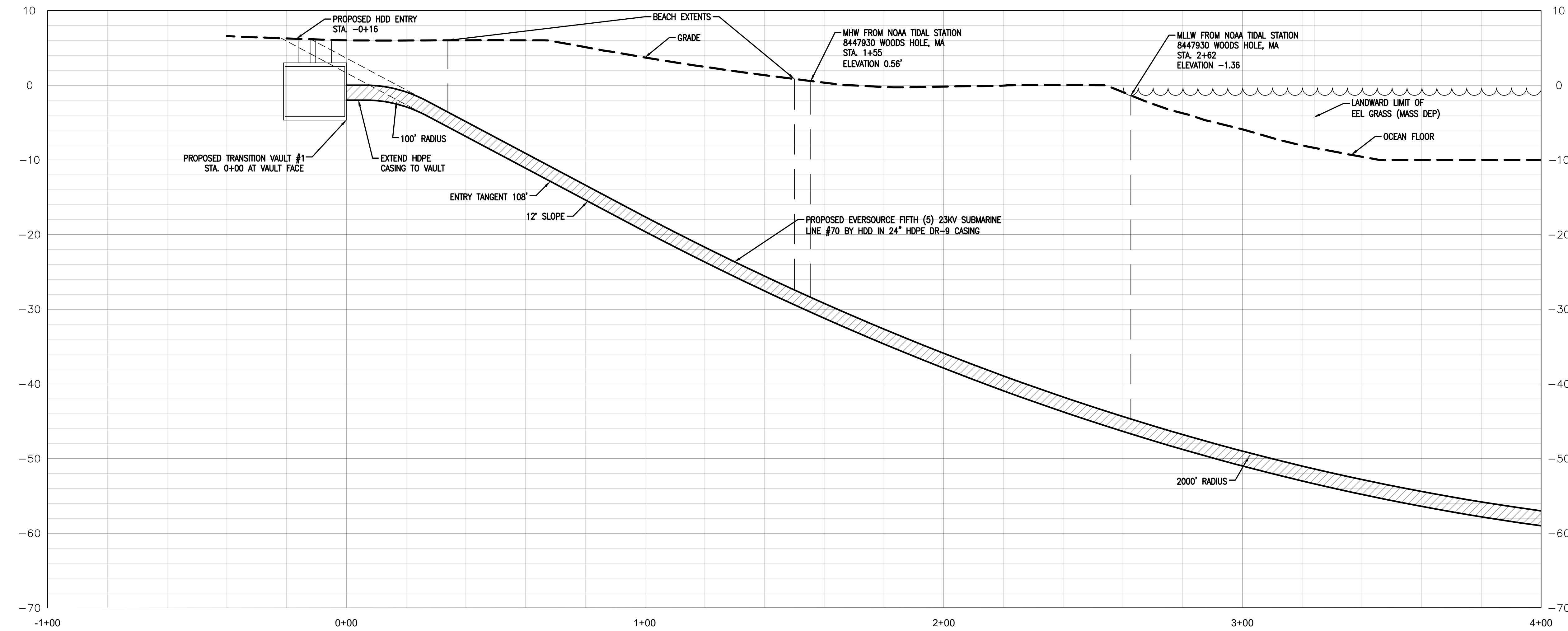
SIDE SONAR CONTACTS (2 OF 2)

Target	ClickLat	ClickLon	X	Y	FishHeight	FishCmg	Ping Number	NadirDistance	RangeAtLeft Edge	RangeAtRight Edge	SonarRange	RangeToTarg et	PortOr Starboar d	Target On Port Side	Target Spans Channels	Samples PerChan	CsfTarget Row	FirstCsfRow	LastCsfRow	MapProjectio n	TopLeftLat	TopLeftLon	BotLeftLat	BotLeftLon	Classification	Notes	Height (m)	Length (m)	Width (m)	Shadow (m)	Scour (m)	
C-0039	41.48678841	-70.58022905	368080.8	4594002.8	7.861066184	139.897929	374780	10.11685039	10.1168504	24.8819834	34.99883379	7.402021061	Stbd		0	1	1024	2937	2613	3227	UTM83-19	41.48697555	-70.58015819	41.48678052	-70.57997863	Debris	Possible debris field	1.6	6.7	3.9	1.9	0.0
C-0040	41.4866767	-70.58023489	368080.1	4593990.4	12.315028	136.8915004	99676	30.79487231	30.7948723	4.203961481	34.99883379	13.30875995	Port		1	1	1024	15530	15448	15660	UTM83-19	41.48688011	-70.58018898	41.48675436	-70.58005395	Possible cable segment		0.2	11.2	1.8	0.3	0.0
C-0041	41.48518672	-70.57876153	368200.1	4593822.7	3.428605	148.0754099	221984	31.37590764	31.37590764	34.99883379	13.88020887	Port		1	1	1024	19927	19682	20322	UTM83-19	41.48537736	-70.578702	41.48517571	-70.57850726	Debris		0.5	6.5	0.7	2.3	0.0	
C-0042	41.4849655	-70.57568132	368362.3	4593795.3	8.931351	319.9384782	42135	31.58097893	31.58097893	3.417854863	34.99883379	14.08769744	Port		1	1	1024	965	769	1079	UTM83-19	41.48474506	-70.57685313	41.48498246	-70.57708087	Cable		0.0	35.1	0.2	0.0	0.0
C-0043	41.48462647	-70.57668046	368372.7	4593757.3	11.255493	143.2480042	134569	26.89851777	26.89851778	8.100316025	34.99883379	9.408223964	Port		1	1	1024	21565	21379	21792	UTM83-19	41.48481526	-70.57656757	41.48462607	-70.57644518	Cable		0.0	27.6	0.0	0.0	0.0
C-0044	41.48451968	-70.57872	368202.2	4593748.6	3.360248	332.3540368	91760	24.30094807	24.3009481	10.69788572	34.99883379	6.811771125	Port		1	1	1024	1267	1093	1450	UTM83-19	41.48433422	-70.5788006	41.48454995	-70.57896895	Sand waves	Width = approximate	0.0	0.0	1.7	0.0	0.0
C-0045	41.47872683	-70.57877809	368185.6	4593105.5	9.068066	186.249143	276862	0	0	34.99883379	34.99883379	28.85074924	Stbd		0	0	1024	8529	8371	8701	UTM83-19	41.47882647	-70.57843628	41.47858184	-70.57847079	Debris		0.6	3.2	1.3	1.9	0.0
C-0046	41.47824609	-70.58047723	368042.8	4593054.7	7.666745	5.913431547	319012	0.410142584	0.41014258	34.58869121	34.99883379	17.09184665	Stbd		0	1	1024	4987	4818	5153	UTM83-19	41.47810836	-70.58069794	41.47841108	-70.58064691	Debris	Debris in sand waves	0.4	6.4	0.4	0.9	0.0
C-0047	41.47820183	-70.57873927	368187.8	4593047.2	7.803459	178.7681722	277563	0	0	34.99883379	34.99883379	20.27778875	Stbd		0	0	1024	9230	9074	9397	UTM83-19	41.47830282	-70.57850127	41.47808671	-70.57848093	Debris	Debris in sand waves	0.2	1.6	2.5	0.7	0.0
C-0048	41.47605329	-70.57932639	368134.4	4592809.5	3.941283	11.2126005	29283	30.79487231	30.7948723	4.203961481	34.99883379	13.31684093	Port		1	1	1024	2355	2187	2529	UTM83-19	41.47592113	-70.57956942	41.47624181	-70.57948846	Fishing gear	Likely conch trap near sand ridge	0.3	1.3	0.8	1.0	0.0
C-0049	41.47349265	-70.57875829	368176.7	4592524.4	7.794755	8.89652111	458552	24.17251597	24.172516	0.830167215	25.00268319	11.68235353	Port		1	1	1024	13946	13755	14114	UTM83-19	41.47341182	-70.57893666	41.47362075	-70.57888757	Debris		0.1	3.1	0.1	0.2	0.0
C-0050	41.47056082	-70.57863992	368180.6	4592198.7	2.349835	187.4102912	207665	15.45576021	15.4557602	9.546922975	25.00268319	2.957027665	Port		1	1	1024	8451	8203	8698	UTM83-19	41.47065678	-70.57845675	41.47044626	-70.57850434	Fishing Gear	Likely conch trap	0.2	1.5	0.7	0.2	0.0
C-0051	41.47046698	-70.57905665	368145.6	4592188.9	2.862585	178.8212866	429320	25.00268319	25.0026832	0	25.00268319	16.4568089	Port		1	0	1024	7441	7251	7633	UTM83-19	41.47058426	-70.57895489	41.47034014	-70.57894315	Fishing Gear	Likely conch trap	0.3	1.0	0.9	1.8	0.0
C-0052	41.4703899	-70.57914161	368138.4	4592180.5	2.471918	2.810668815	375645	0	0	25.00268319	25.00268319	21.83094093	Stbd		0	0	1024	8925	8712	9139	UTM83-19	41.47029365	-70.57942134	41.47051071	-70.5793966	Fishing Gear	Likely conch trap	0.2	1.0	0.6	2.3	0.0
C-0053	41.47033836	-70.57950951	368107.5	4592175.3	2.545168	3.755515377	375514	21.04718057	21.0471806	3.955502614	25.00268319	8.567053178	Port		1	1	1024	8794	8590	9008	UTM83-19	41.47024803	-70.57967664	41.47045167	-70.57965738	Fishing Gear	Likely conch trap	0.3	1.1	0.5	1.3	0.0
C-0054	41.47025841	-70.57978297	368084.5	4592166.9	2.960252	183.0385591	321817	0	0	25.00268319	25.00268319	14.5709532	Stbd		0	0	1024	7633	7454	7823	UTM83-19	41.47035674	-70.57960944	41.47014034	-70.57961592	Fishing Gear	Likely conch trap	0.3	0.8	0.5	1.9	0.0
C-0055	41.47009729	-70.58072053	368005.9	4592150.4	2.838168	8.501746813	188073	0	0	25.00268319	25.00268319	20.09529583	Stbd		0	0	1024	8763	8592	8952	UTM83-19	41.47002722	-70.58096777	41.47022665	-70.58092924	Fishing Gear	Likely conch trap	0.3	0.9	0.8	2.2	0.0
C-0056	41.46989993	-70.58185368	367910.9	4592130.2	3.106752	3.811377673	37597	8.594672346	8.59467235	16.40801084	25.00268319	3.918348973	Stbd		0	1	1024	9717	9565	9904	UTM83-19	41.46983724	-70.58200912	41.47001376	-70.58199152	Fishing Gear	Likely conch trap	0.1	1.3	0.7	0.2	0.0
C-0057	41.4688784	-70.57950606	368104.9	4592013.2	3.057919	188.7213424	432121	9.449256244	9.44925624	15.55342694	25.00268319	3.073485481	Stbd		0	1	1024	1														

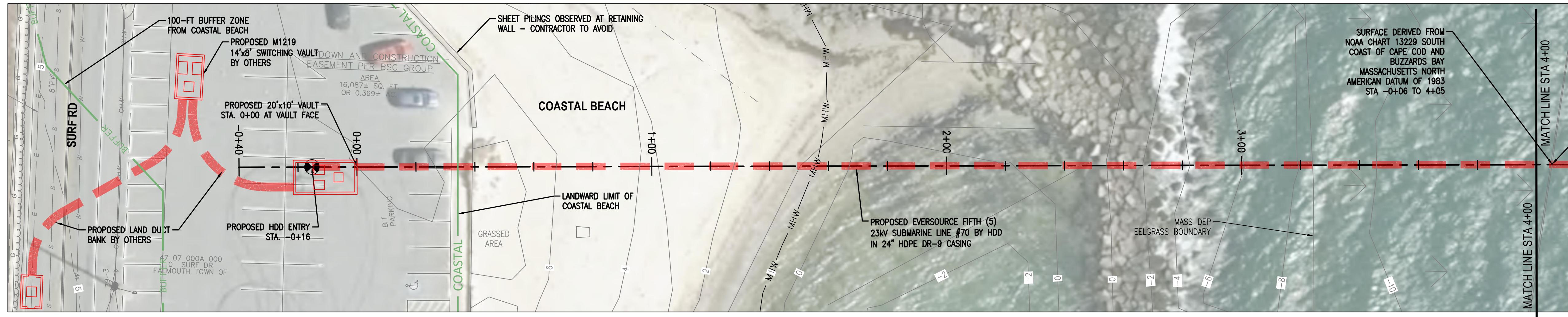
← STATION #933

PROFILE VIEW

OAK BLUFFS LANDING →



PLAN VIEW



## NOTES

- THE UTILITIES AND NATURAL FEATURES SHOWN HEREON ARE BASED ON FIELD SURVEYS, AERIAL PHOTOGRAPHY AND RECORD DOCUMENTS. OTHER FACILITIES MAY EXIST NOT DISCOVERED THROUGH THE RECORD CHECK. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION, BOTH HORIZONTAL AND VERTICAL, OF ALL UTILITIES THROUGH THE APPROPRIATE UTILITY COMPANIES. 811 OR (888) 344-7233.
- VERTICAL LOCATION OF SUBSURFACE UTILITY LINES ARE BASED ON ASSUMED DEPTHS AND MAY VARY FROM THE ACTUAL VERTICAL LOCATIONS.
- ALL PROFILE VERTICAL CURVES ARE 400' RADIUS UNLESS OTHERWISE NOTED.
- EXISTING LINE 99 & RETIRED LINE 75 COME TO SHORE DIRECT BURIED AT THIS LOCATION – CONTRACTOR TO EXERCISE CAUTION.

0 10 20 40 60 FEET  
HORIZONTAL SCALE: 1" = 20'

0 4 8 16 24 FEET  
VERTICAL SCALE: 1" = 8'

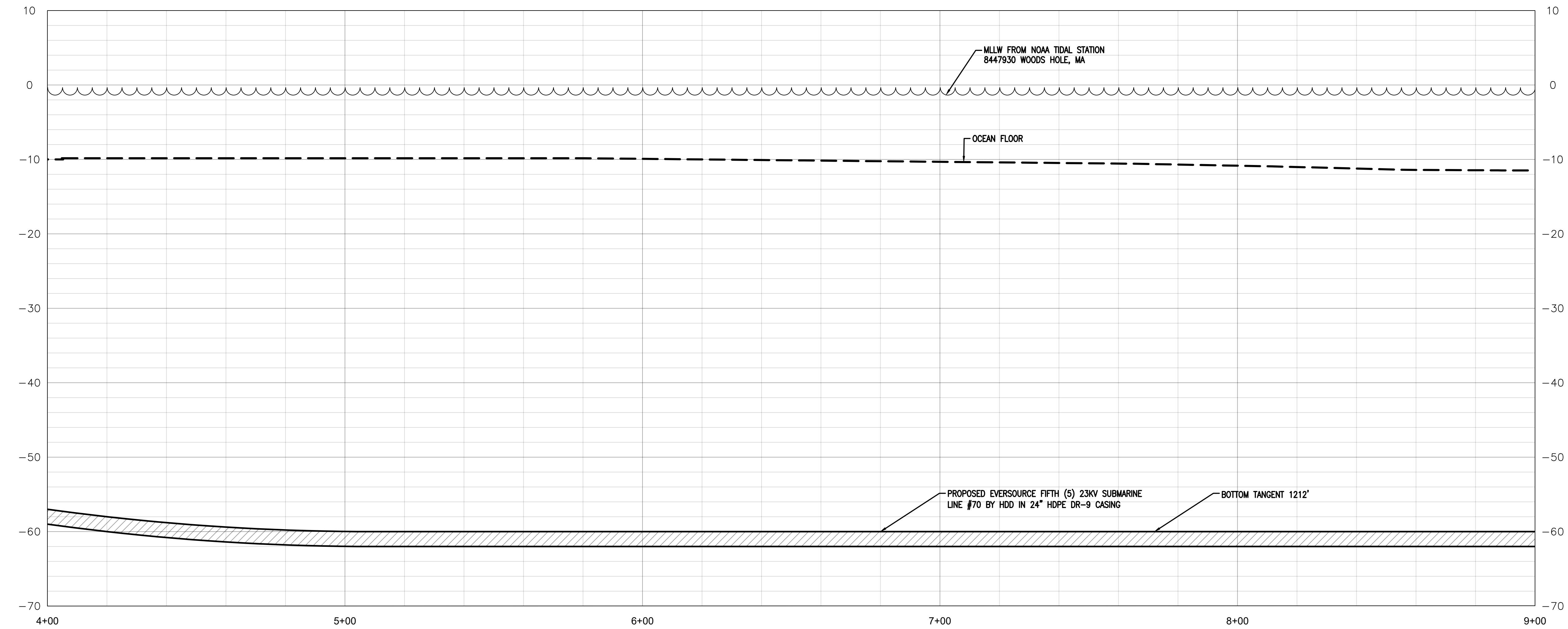
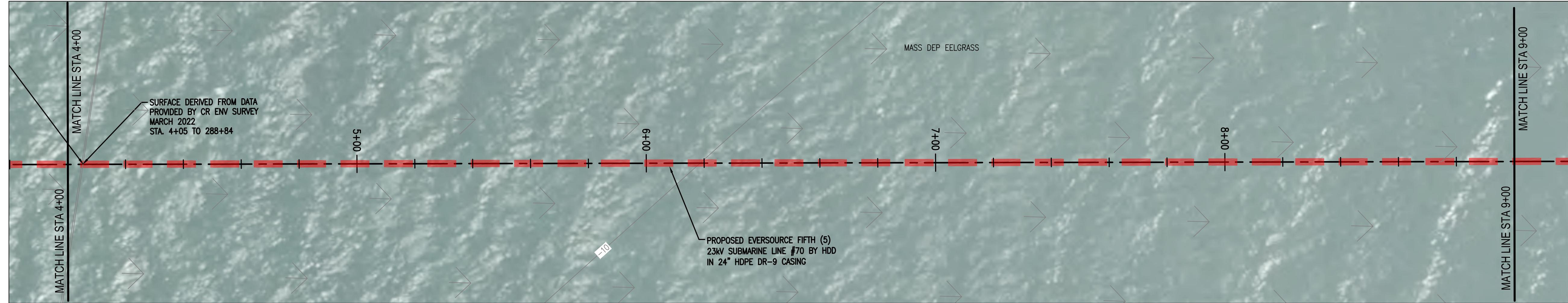
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E	03/23/2023	ADDED HDD CALLOUTS – NO ALIGNMENT CHANGE	ASW	TPB	TPB	TPB
D	01/30/2023		ASW	TPB	TPB	TPB
C	12/19/2022	ISSUED FOR REVIEW – ADDED ENVIRONMENTAL LAYERS FROM EVS	LAS	TPB	TPB	TPB
B	11/18/2022	ISSUED FOR REVIEW – REVISED 30% PLAN	LAS	TPB	ASW	TPB
A	11/11/2022	ISSUED FOR REVIEW – 30% PLAN	ASW	TPB	TPB	TPB
			BY	CHKD	ENGR	SUPV

PROJ #	0237849_0000	WORK #	80047133	DRAWN	DRC
CHECKED	TPB	DESIGN ENG	ASW	DESIGN SUPV	TPB
DATE	2022-11-11	SCALE	1" = 20'	6 OF 23	6
SHEET NAME					

← STATION #933

PROFILE VIEW

OAK BLUFFS LANDING →

PLAN VIEW

## NOTES

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2. VERTICAL LOCATION OF SUBSURFACE UTILITY LINES ARE BASED ON ASSUMED DEPTHS AND MAY VARY FROM THE ACTUAL VERTICAL LOCATIONS.
3. ALL PROFILE VERTICAL CURVES ARE 400' RADIUS UNLESS OTHERWISE NOTED.
4. EXISTING LINE 99 & RETIRED LINE 75 COME TO SHORE DIRECT BURIED AT THIS LOCATION – CONTRACTOR TO EXERCISE CAUTION.

0 10 20 40 60 FEET  
HORIZONTAL SCALE: 1" = 20'

0 4 8 16 24 FEET  
VERTICAL SCALE: 1" = 8'

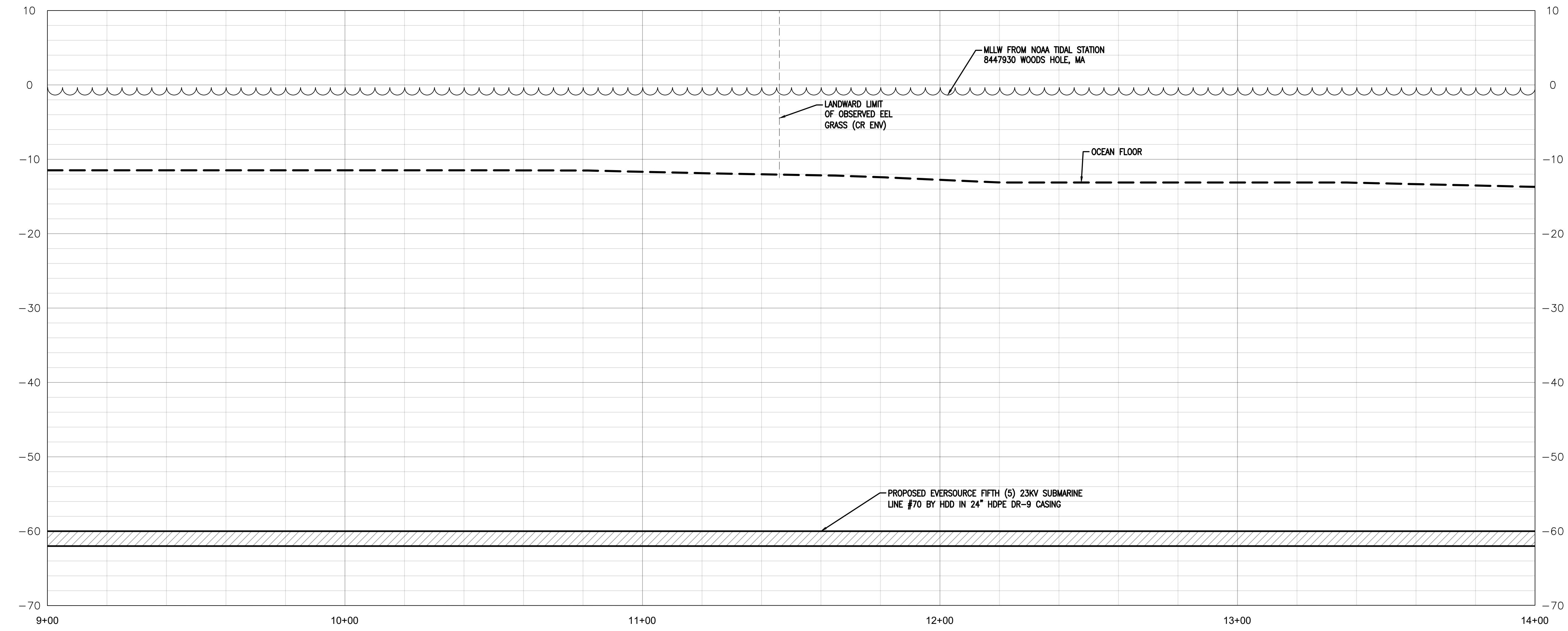
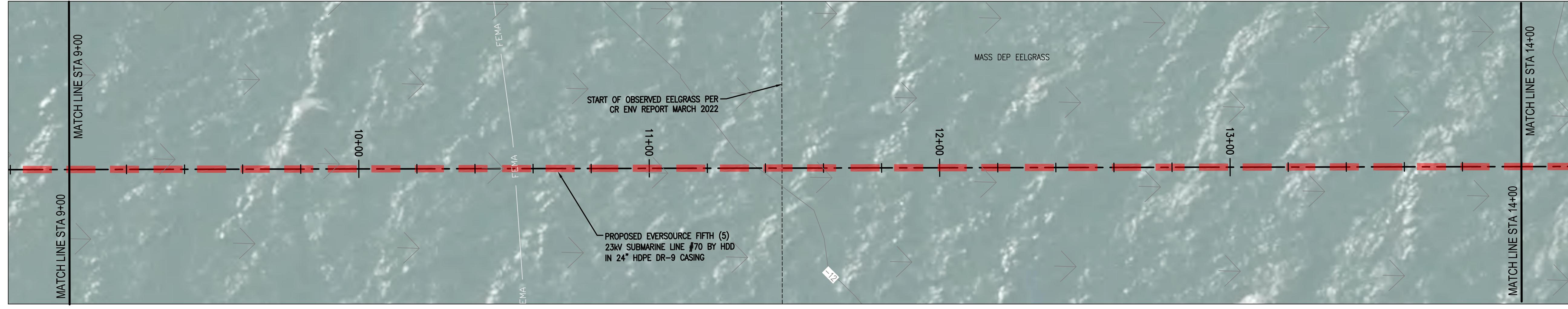
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E	03/23/2023	ISSUED FOR PERMITTING	ASW	TPB	TPB	TPB
D	01/30/2023	ADDED HDD CALLOUTS – NO ALIGNMENT CHANGE	ASW	TPB	TPB	TPB
C	12/19/2022	ISSUED FOR REVIEW – ADDED ENVIRONMENTAL LAYERS FROM EVS	LAS	TPB	TPB	TPB
B	11/18/2022	ISSUED FOR REVIEW – REVISED 30% PLAN	LAS	TPB	ASW	TPB
A	11/11/2022	ISSUED FOR REVIEW – 30% PLAN	ASW	TPB	TPB	TPB
			BY	CHKD	ENGR	SUPV

PROJ #	MARTHA'S VINEYARD SUBMARINE LINE #70
WORK #	FALMOUTH TO MARTHA'S VINEYARD, MA
80047133	PLAN & PROFILE STA. 4+00 TO 9+00
DRAWN	DATE: 2022-11-11
CHECKED	SCALE: 1" = 20'
TPB	7 OF 23
DESIGN ENG	SHEET NAME: 7
ASW	
TPB	

← STATION #933

PROFILE VIEW

OAK BLUFFS LANDING →

PLAN VIEW

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E	03/23/2023	ISSUED FOR PERMITTING	ASW	TPB	TPB	TPB
D	01/30/2023	ADDED HDD CALLOUTS – NO ALIGNMENT CHANGE	ASW	TPB	TPB	TPB
C	12/19/2022	ISSUED FOR REVIEW – ADDED ENVIRONMENTAL LAYERS FROM EVS	LAS	TPB	TPB	TPB
B	11/18/2022	ISSUED FOR REVIEW – REVISED 30% PLAN	LAS	TPB	ASW	TPB
A	11/11/2022	ISSUED FOR REVIEW – 30% PLAN	ASW	TPB	TPB	TPB

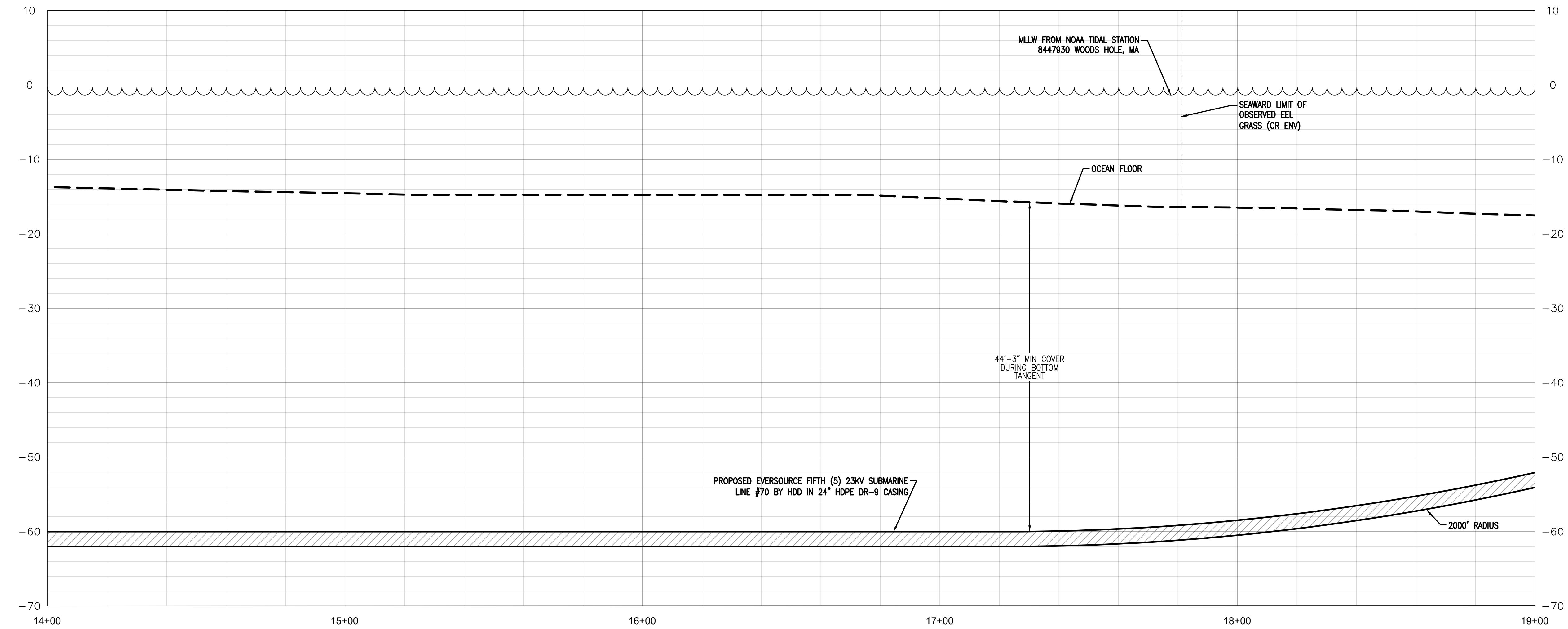
REVISION: BY: CHKD ENGR SUPV

PROJ #	0237849_0000	WORK #	80047133	DRAWN	DRC
CHECKED	TPB	DESIGN ENG	ASW	DESIGN SUPV	TPB
DATE	2022-11-11	SCALE	1" = 20'	SHEET	8 OF 23
SHEET NAME	8				

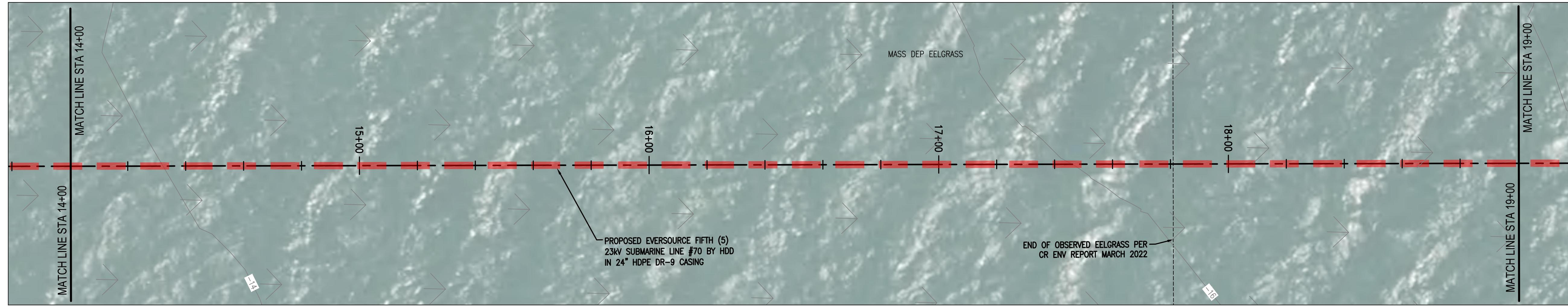
← STATION #933

## PROFILE VIEW

OAK BLUFFS LANDING →

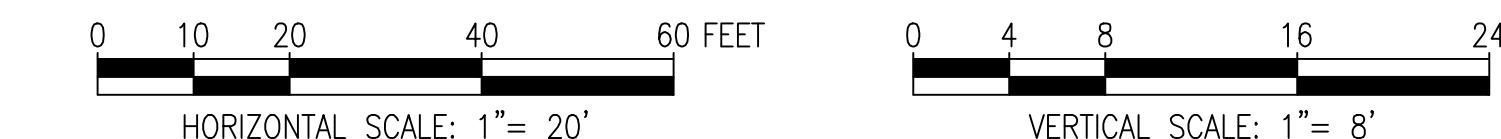


## PLAN VIEW



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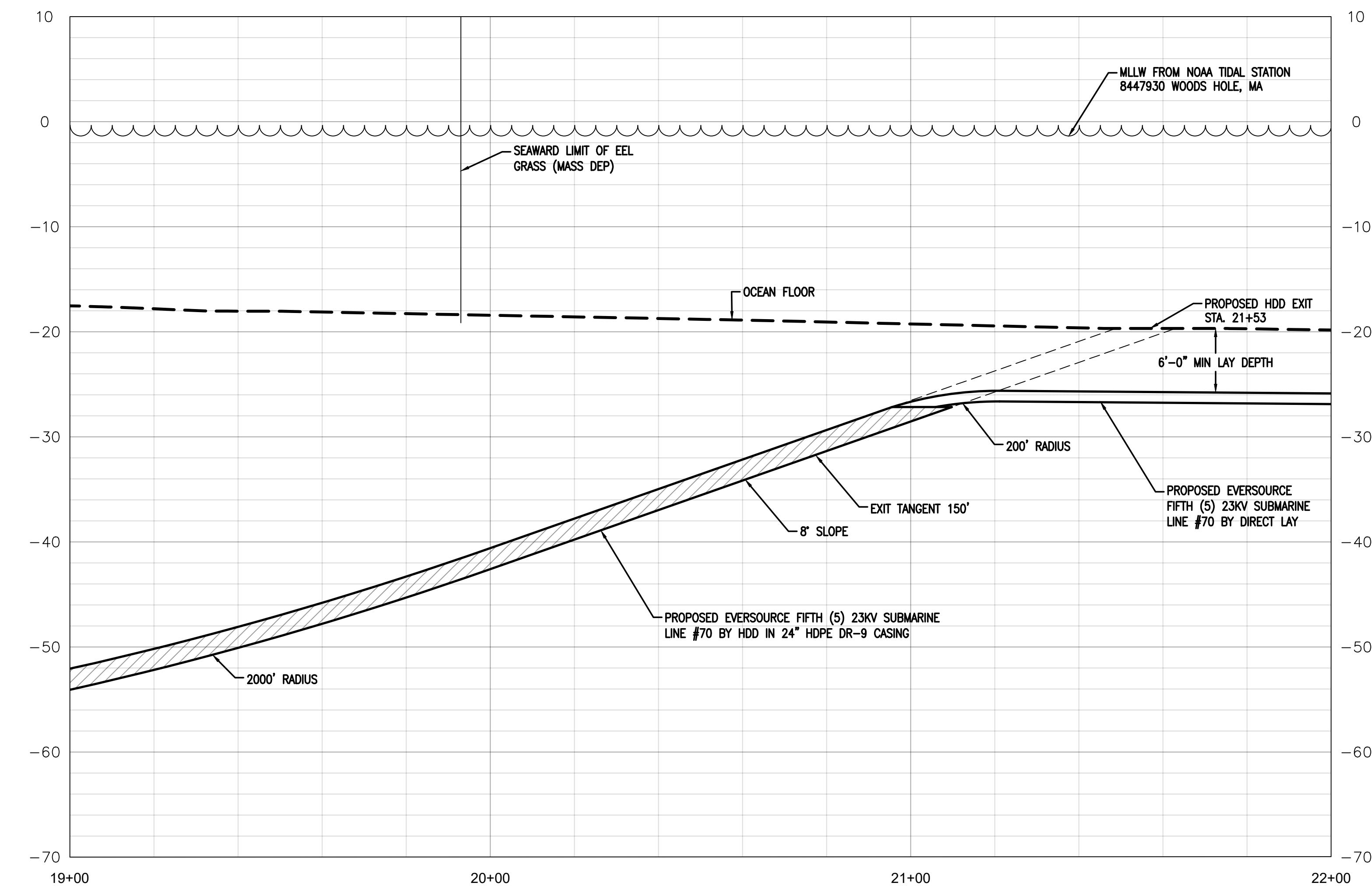


No	DATE	ISSUED FOR PERMITTING	ASW	TPB	TPB	TPB
E	03/23/2023	ISSUED FOR PERMITTING	ASW	TPB	TPB	TPB
D	01/30/2023	ADDED HDD CALLOUTS – NO ALIGNMENT CHANGE	ASW	TPB	TPB	TPB
C	12/19/2022	ISSUED FOR REVIEW – ADDED ENVIRONMENTAL LAYERS FROM EVS	LAS	TPB	TPB	TPB
B	11/18/2022	ISSUED FOR REVIEW – REVISED 30% PLAN	LAS	TPB	ASW	TPB
A	11/11/2022	ISSUED FOR REVIEW – 30% PLAN	ASW	TPB	TPB	TPB
		REVISION	BY	CHKD	ENGR	SUPV

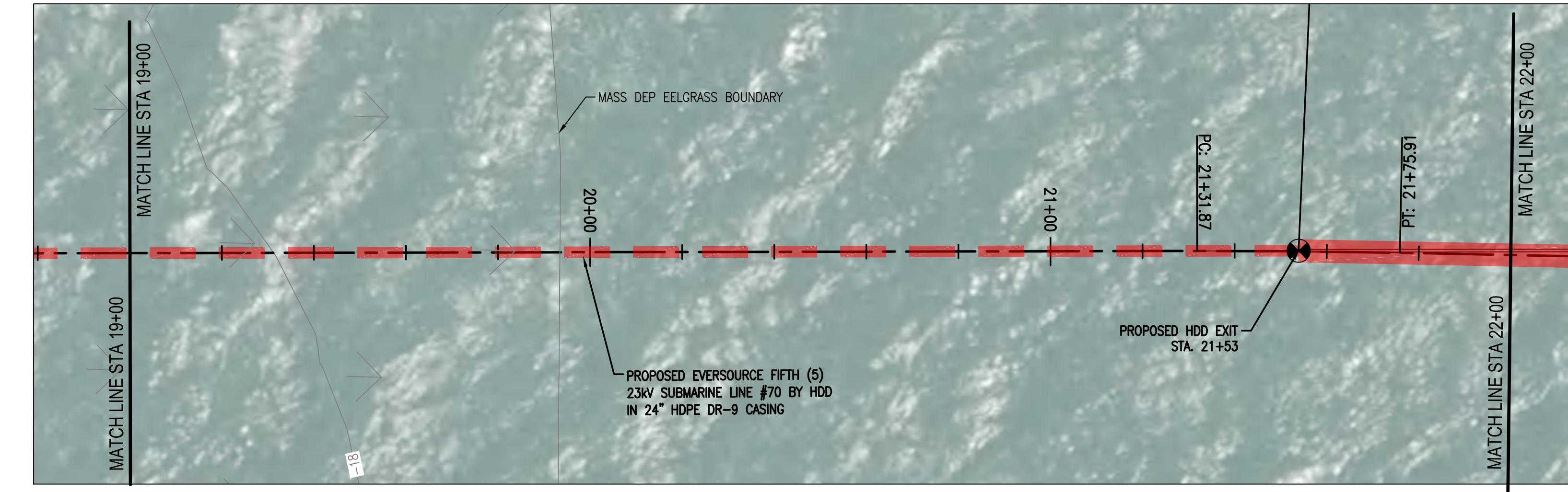
STATION #933

PROFILE VIEW

OAK BLUFFS LANDING



PLAN VIEW

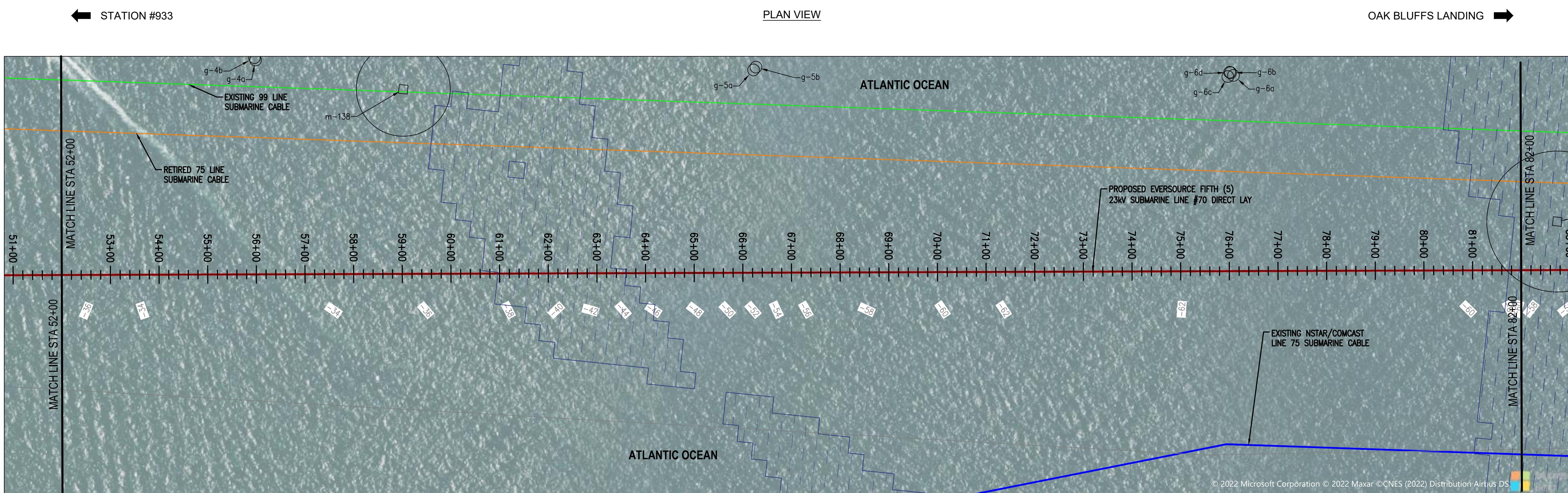
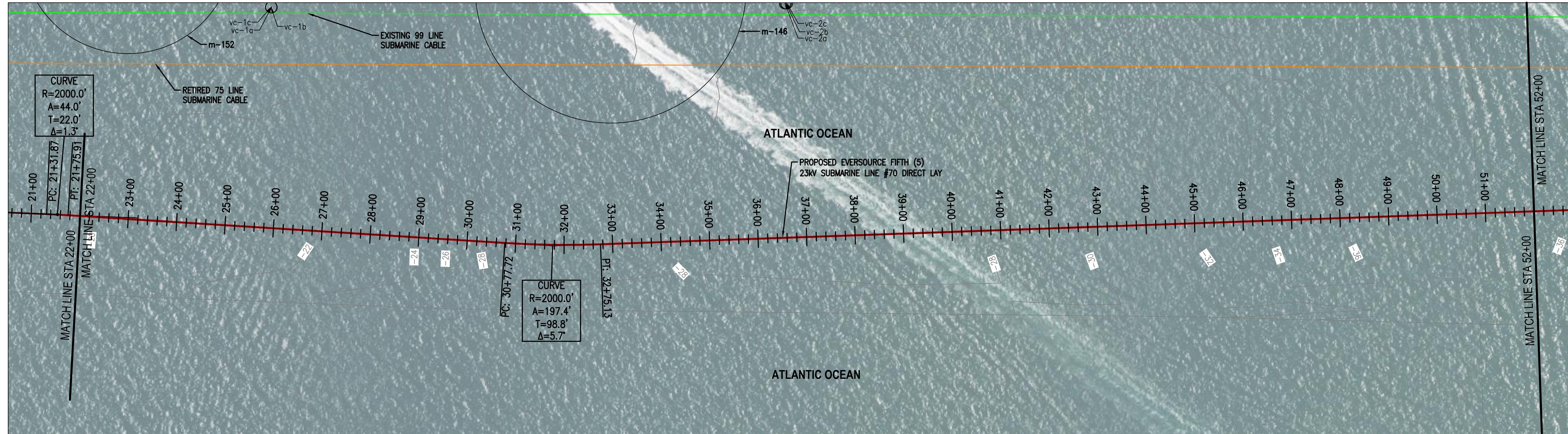


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0 10 20 40 60 FEET  
HORIZONTAL SCALE: 1" = 20'

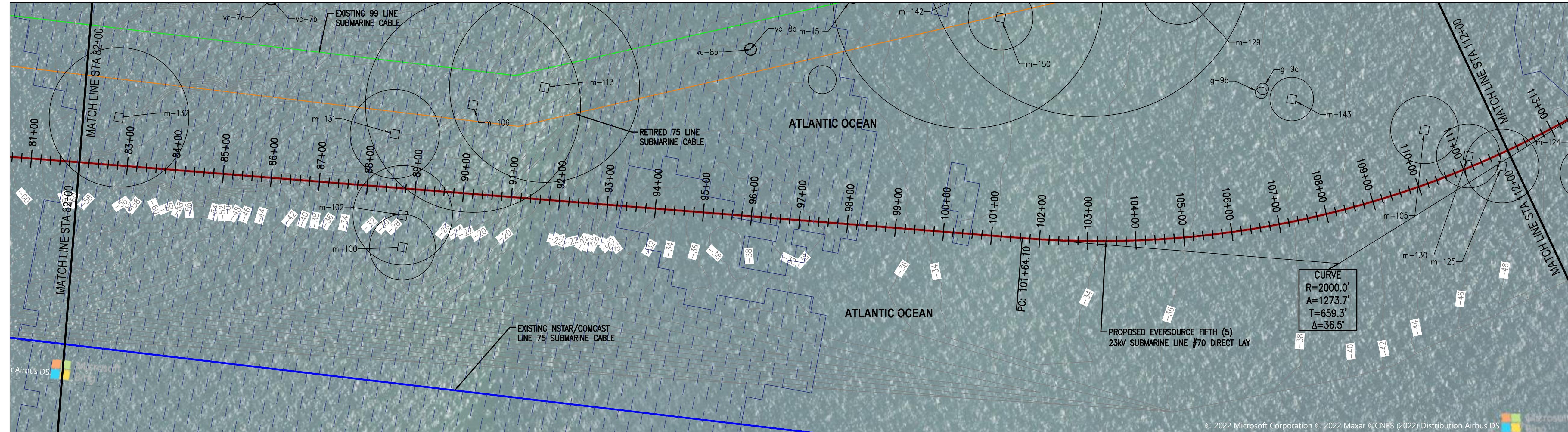
0 4 8 16 24 FEET  
VERTICAL SCALE: 1" = 8'



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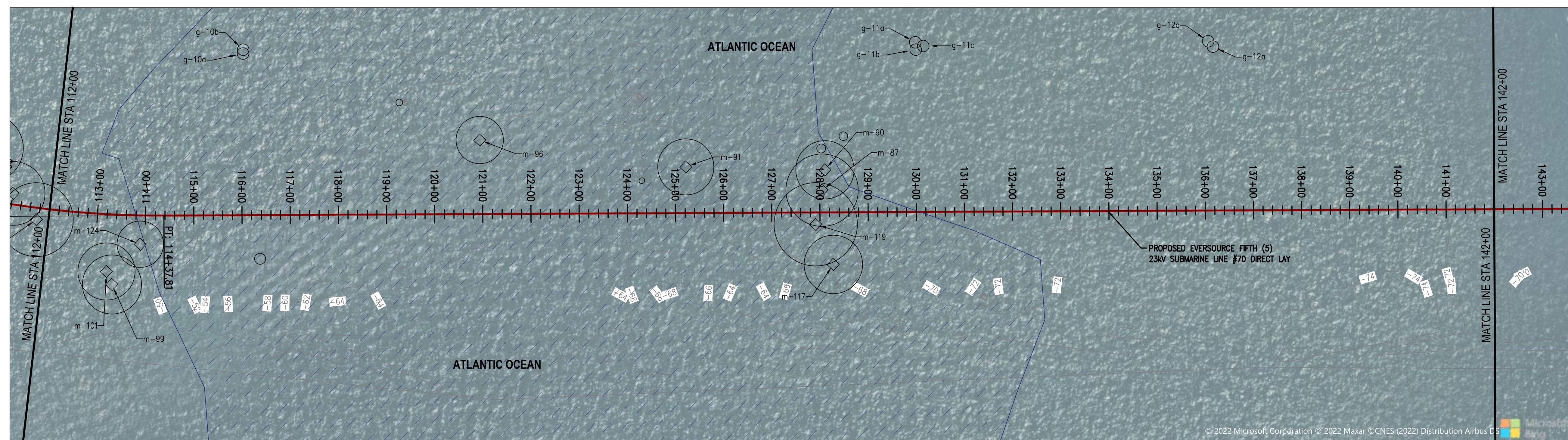
0 60 120 240 360 FEET  
HORIZONTAL SCALE: 1" = 120'



← STATION #933

PLAN VIEW

OAK BLUFFS LANDING →

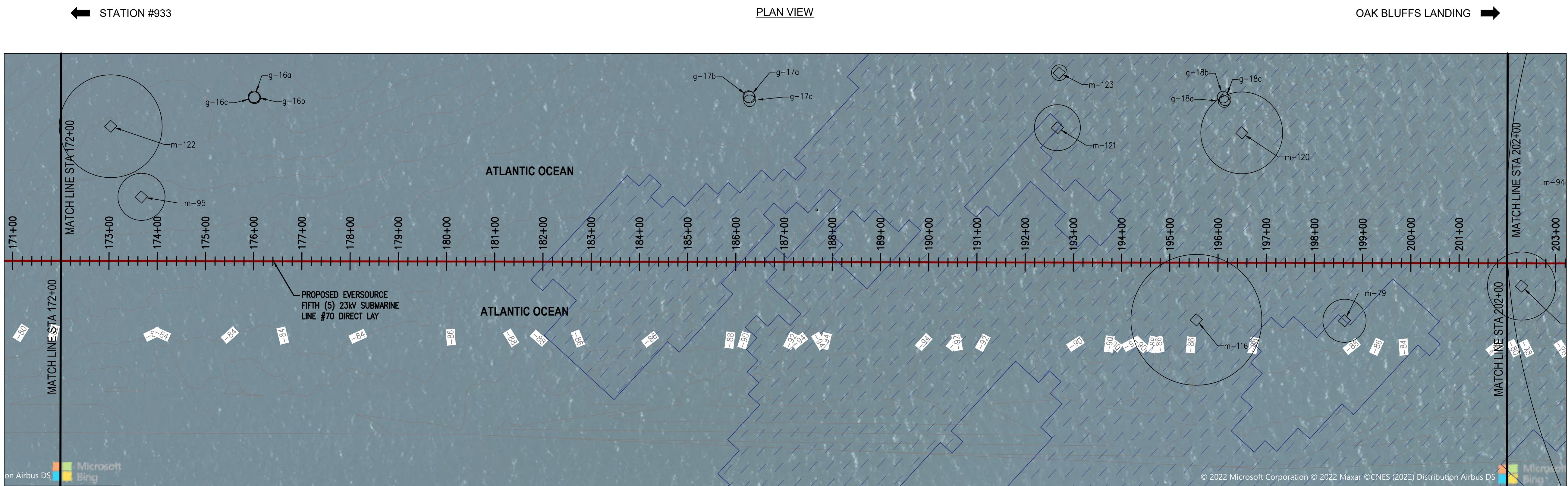
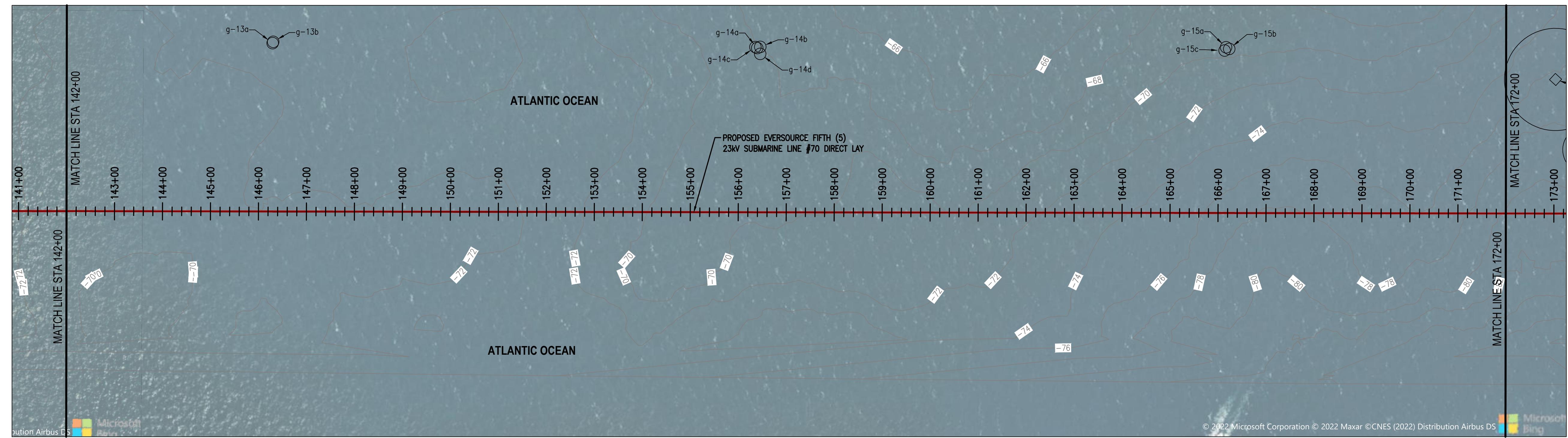


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PLAN VIEW  
0 60 120 240 360 FEET  
HORIZONTAL SCALE: 1" = 120'

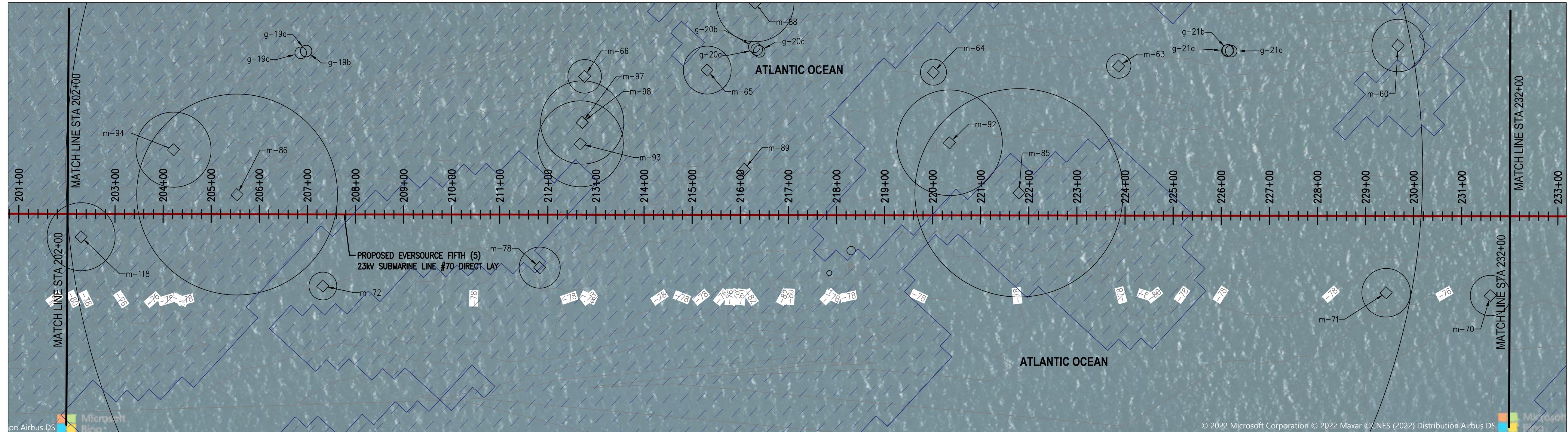
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E	03/23/2023	ISSUED FOR PERMITTING	ASW	TPB	TPB	TPB
D	01/30/2023	ADDED HDD CALLOUTS - NO ALIGNMENT CHANGE	ASW	TPB	TPB	TPB
C	12/19/2022	ISSUED FOR REVIEW - ADDED ENVIRONMENTAL LAYERS FROM EVS	LAS	TPB	TPB	TPB
B	11/18/2022	ISSUED FOR REVIEW - REVISED 30% PLAN	LAS	TPB	ASW	TPB
A	11/11/2022	ISSUED FOR REVIEW - 30% PLAN	LAS	TPB	TPB	TPB



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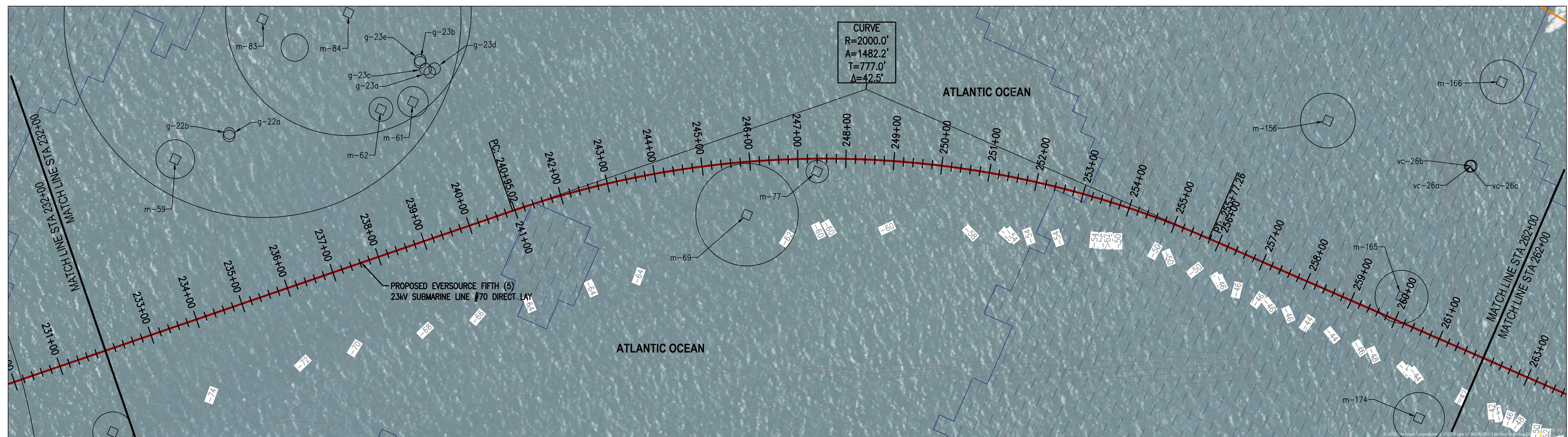
PLAN VIEW  
0 60 120 240 360 FEET  
HORIZONTAL SCALE: 1" = 120'



STATION #933

PLAN VIEW

OAK BLUFFS LANDING

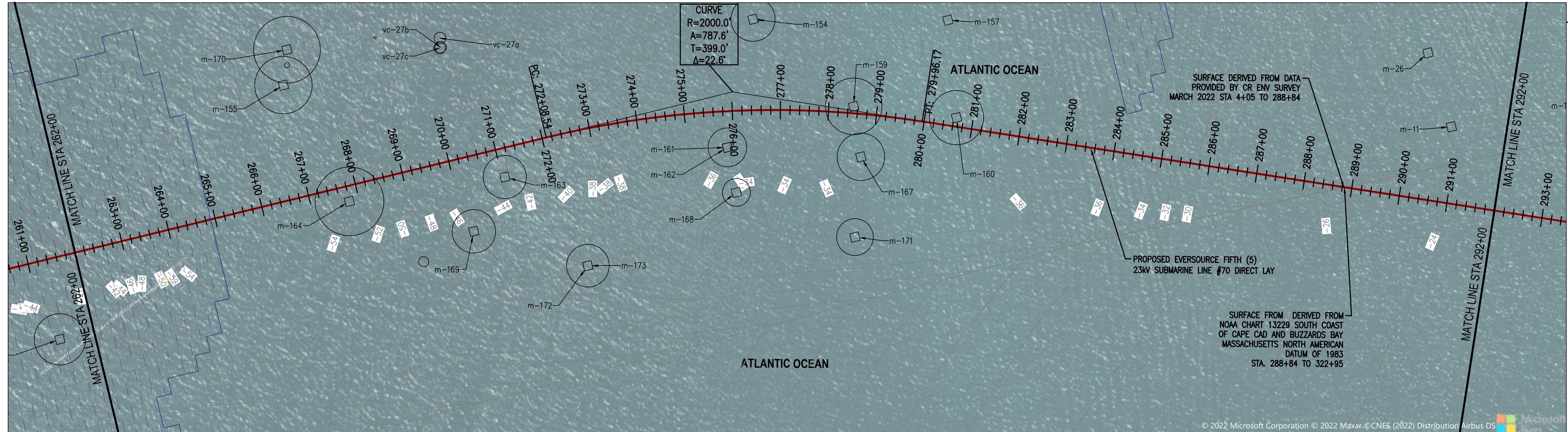


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PLAN VIEW  
0 60 120 240 360 FEET  
HORIZONTAL SCALE: 1" = 120'

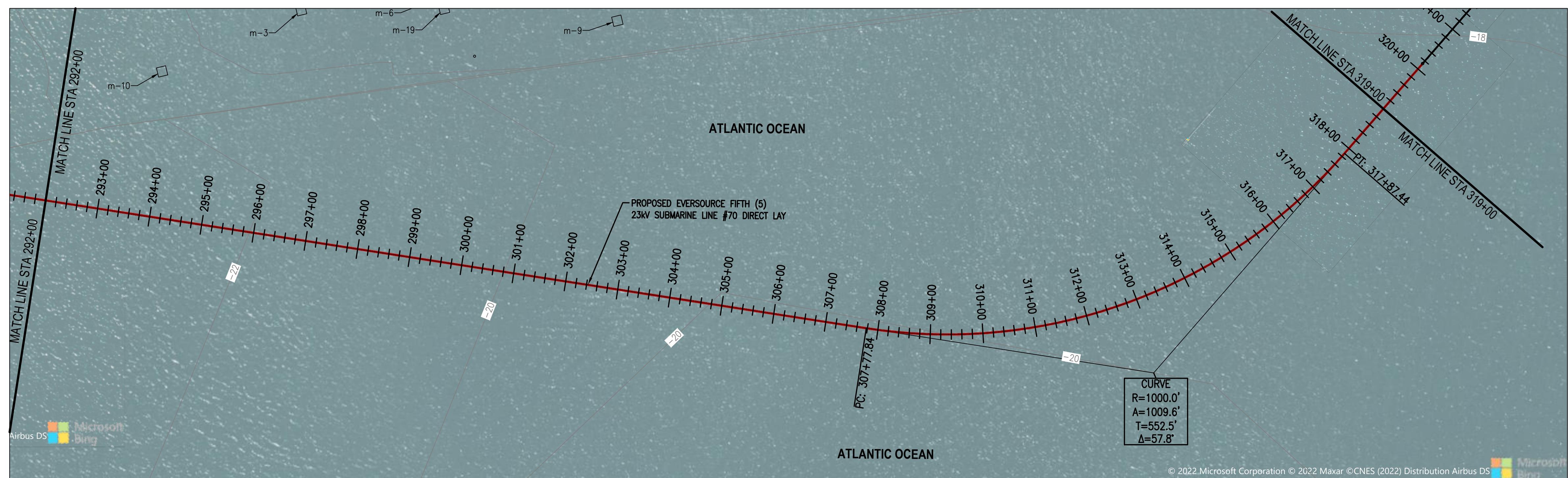
No	DATE	REVISION	BY	CHKD	ENGR	SUPV
E	03/23/2023	ISSUED FOR PERMITTING	ASW	TPB	TPB	TPB
D	01/30/2023	ADDED HDD CALLOUTS - NO ALIGNMENT CHANGE	ASW	TPB	TPB	TPB
C	12/19/2022	ISSUED FOR REVIEW - ADDED ENVIRONMENTAL LAYERS FROM EVS	LAS	TPB	TPB	TPB
B	11/18/2022	ISSUED FOR REVIEW - REVISED 30% PLAN	LAS	TPB	ASW	TPB
A	11/11/2022	ISSUED FOR REVIEW - 30% PLAN	LAS	TPB	TPB	TPB



◀ STATION #933

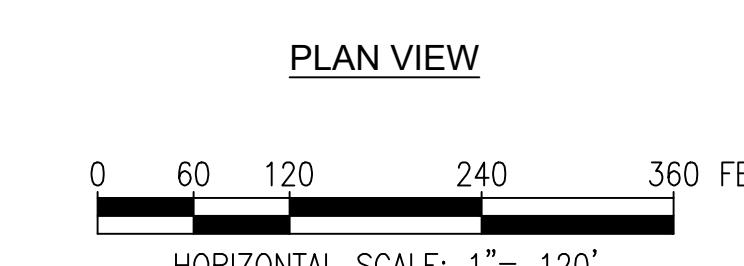
PLAN VIEW

OAK BLUFFS LANDING ➡



#### NOTES

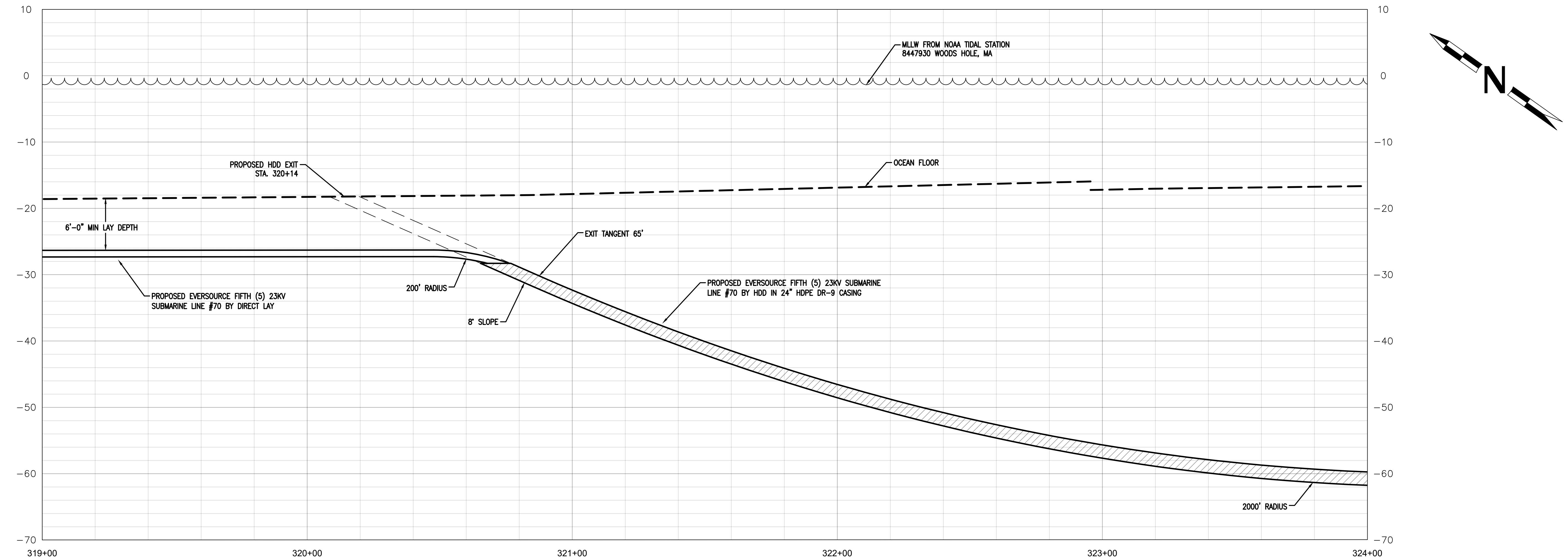
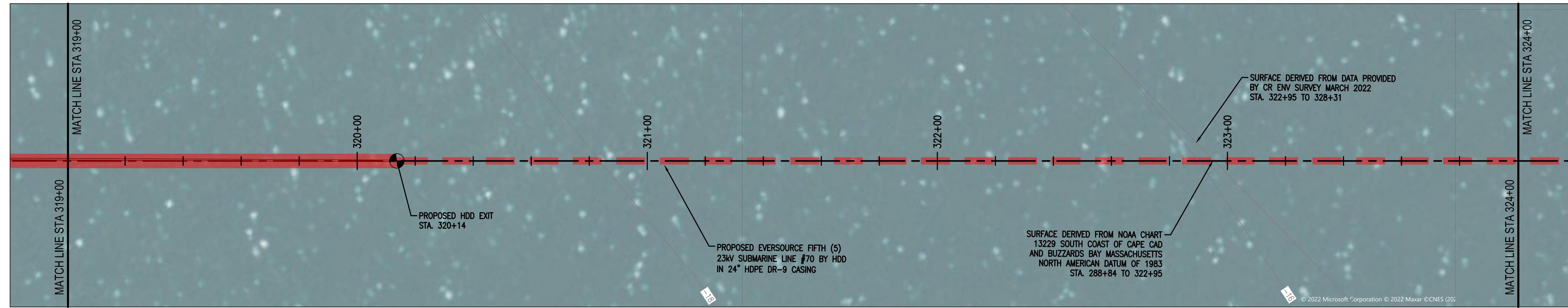
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← STATION #933

PROFILE VIEW

OAK BLUFFS LANDING →

PLAN VIEWNOTES

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0 10 20 40 60 FEET  
HORIZONTAL SCALE: 1" = 20'

0 4 8 16 24 FEET  
VERTICAL SCALE: 1" = 8'

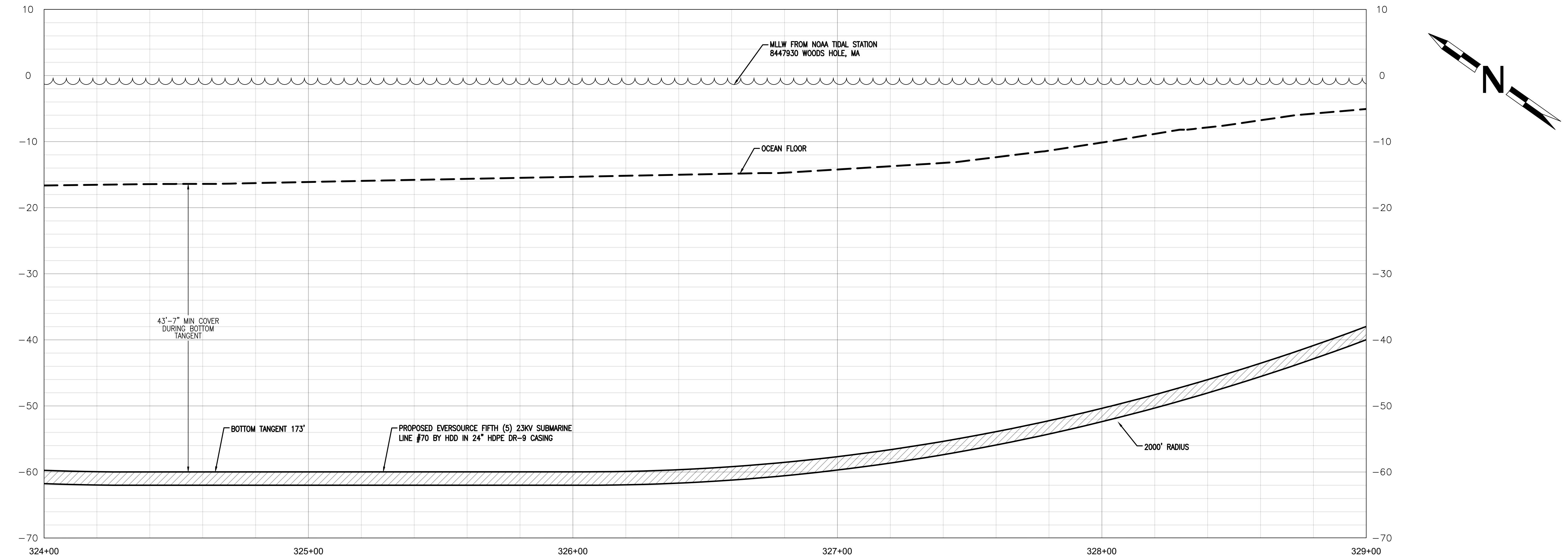
No	DATE	ISSUED FOR PERMITTING	ASW	TPB	TPB	TPB
E	03/23/2023	ISSUED FOR PERMITTING	ASW	TPB	TPB	TPB
D	01/30/2023	ADDED HDD CALLOUTS - NO ALIGNMENT CHANGE	ASW	TPB	TPB	TPB
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B	11/18/2022	ISSUED FOR REVIEW - REVISED 30% PLAN	LAS	TPB	ASW	TPB
A	11/11/2022	ISSUED FOR REVIEW - 30% PLAN	ASW	TPB	TPB	TPB
		REVISION	BY	CHKD	ENGR	SUPV

PROJ #	0237849_0000	WORK #	80047133	DRAWN	DRC
CHECKED	TPB	DESIGN ENG	ASW	DESIGN SUPV	TPB
DATE	2022-11-11	SCALE	1" = 20'	HEET	16 OF 23
HEET NAME	16				

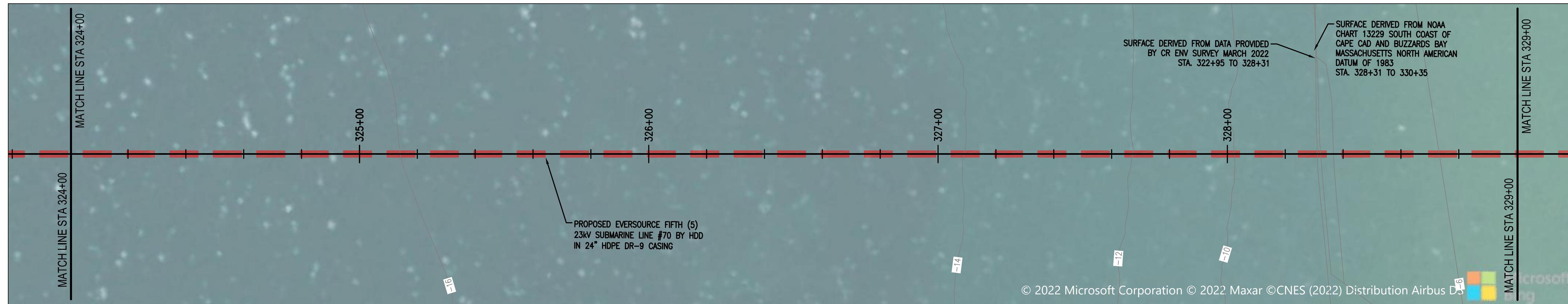
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## PROFILE VIEW

OAK BLUFFS LANDING →



## PLAN VIEW



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0 10 20 40 60 FEET

HORIZONTAL SCALE: 1" = 20'

0 4 8 16 24 FEET

VERTICAL SCALE: 1" = 8'

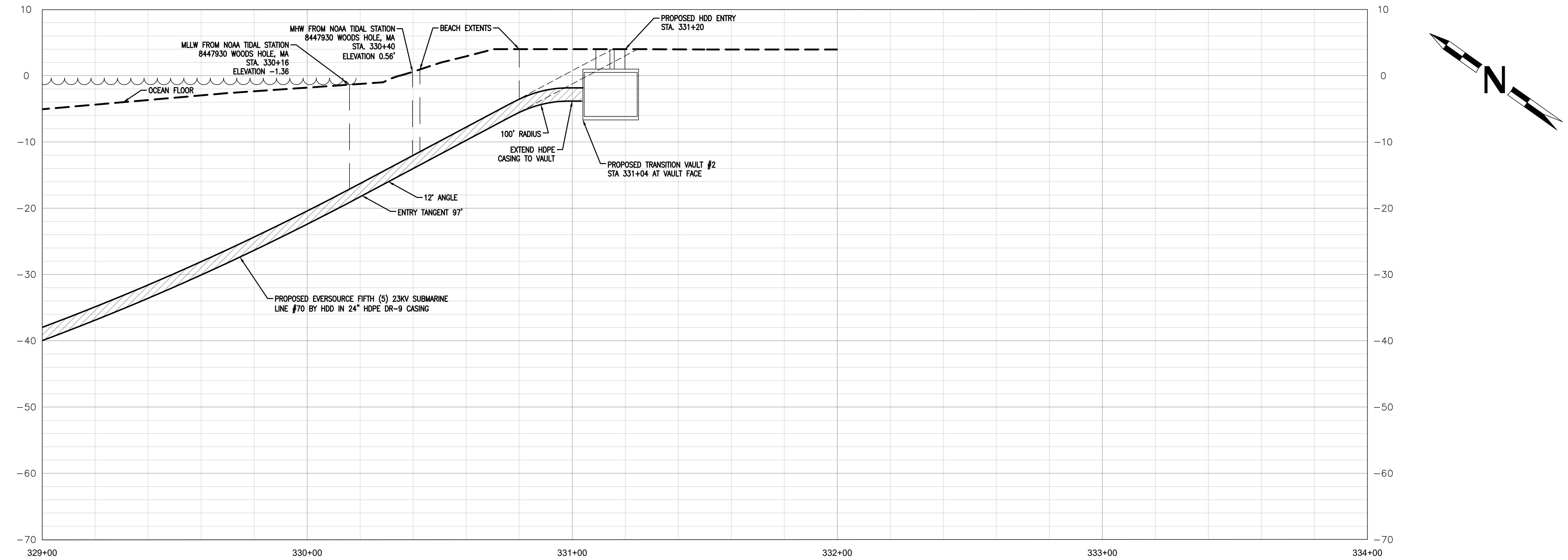
No	DATE	ISSUED FOR PERMITTING	ASW	TPB	TPB	TPB
E	03/23/2023	ISSUED FOR PERMITTING	ASW	TPB	TPB	TPB
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		REVISION	BY	CHKD	ENGR	SUPV

PROJ #	0237849_0000	WORK #	80047133	DRAWN	DRC
CHECKED	TPB	DESIGN ENG	ASW	DESIGN SUPV	TPB
DATE	2022-11-11	SCALE	1" = 20'	HEET	17 OF 23
HEET NAME	17				

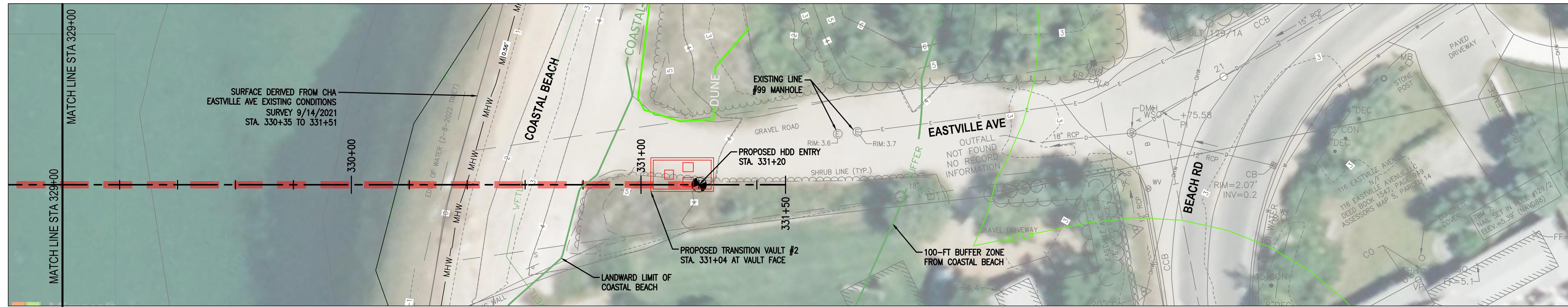
← STATION #933

PROFILE VIEW

OAK BLUFFS LANDING →



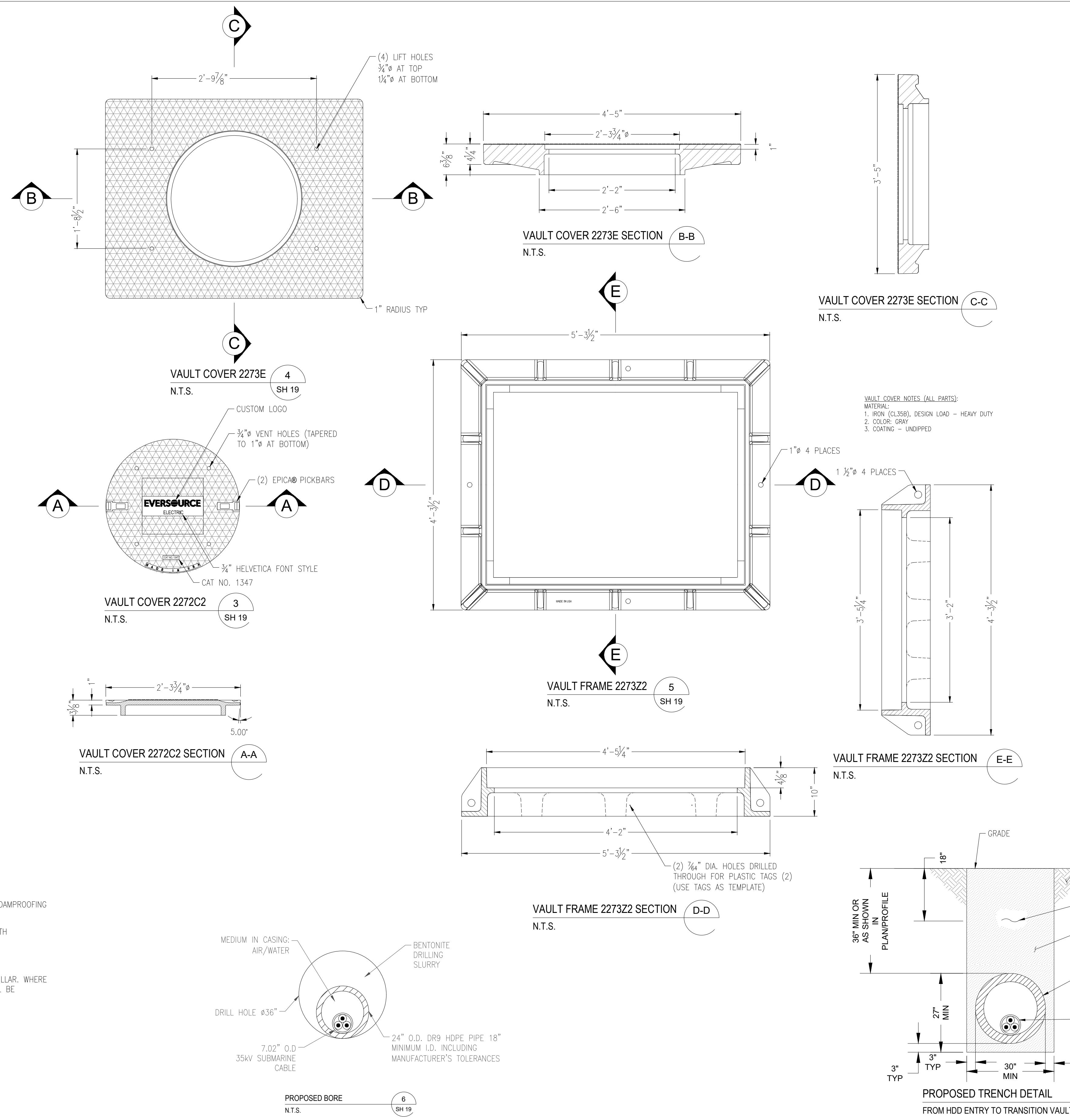
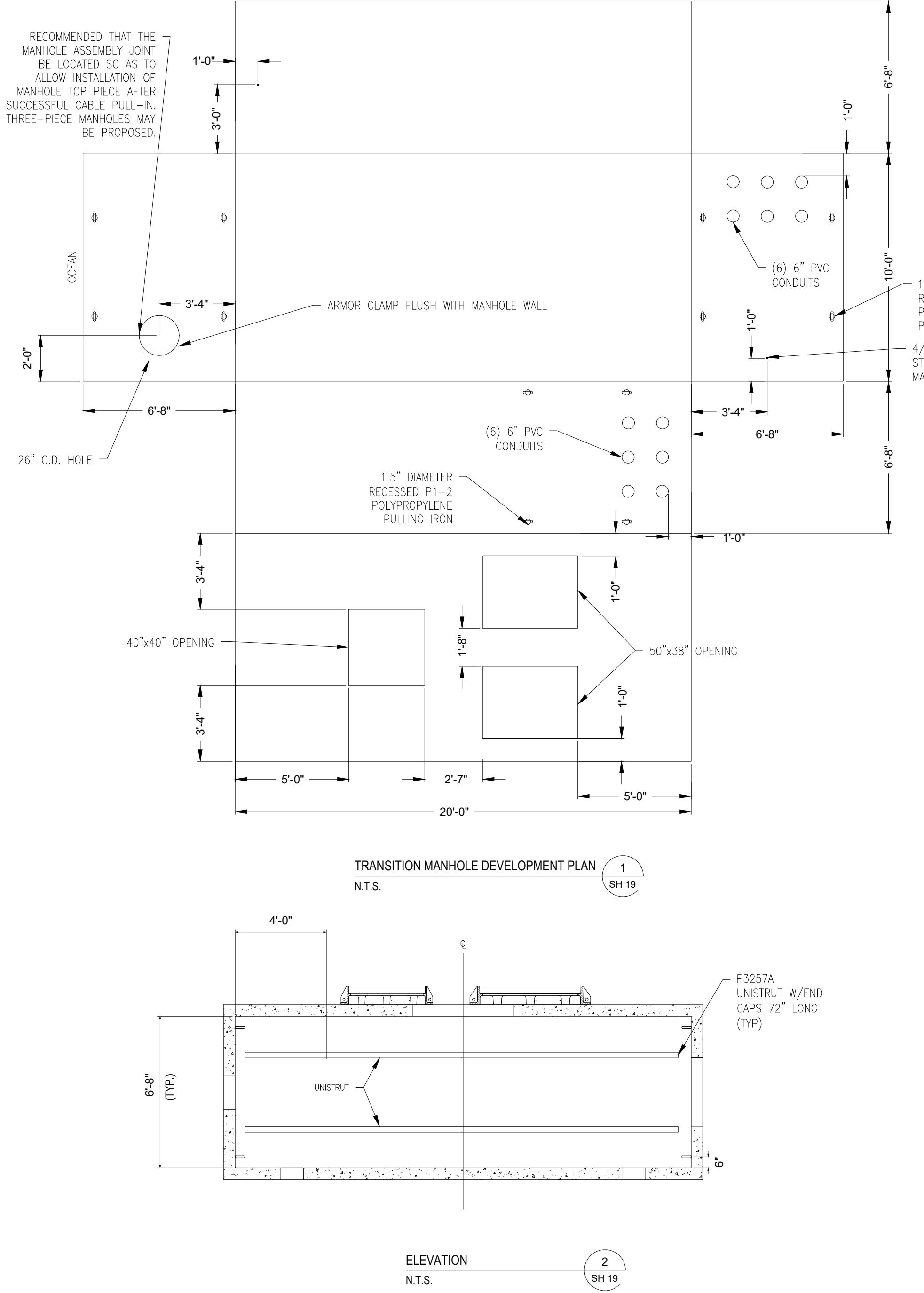
PLAN VIEW



## NOTES

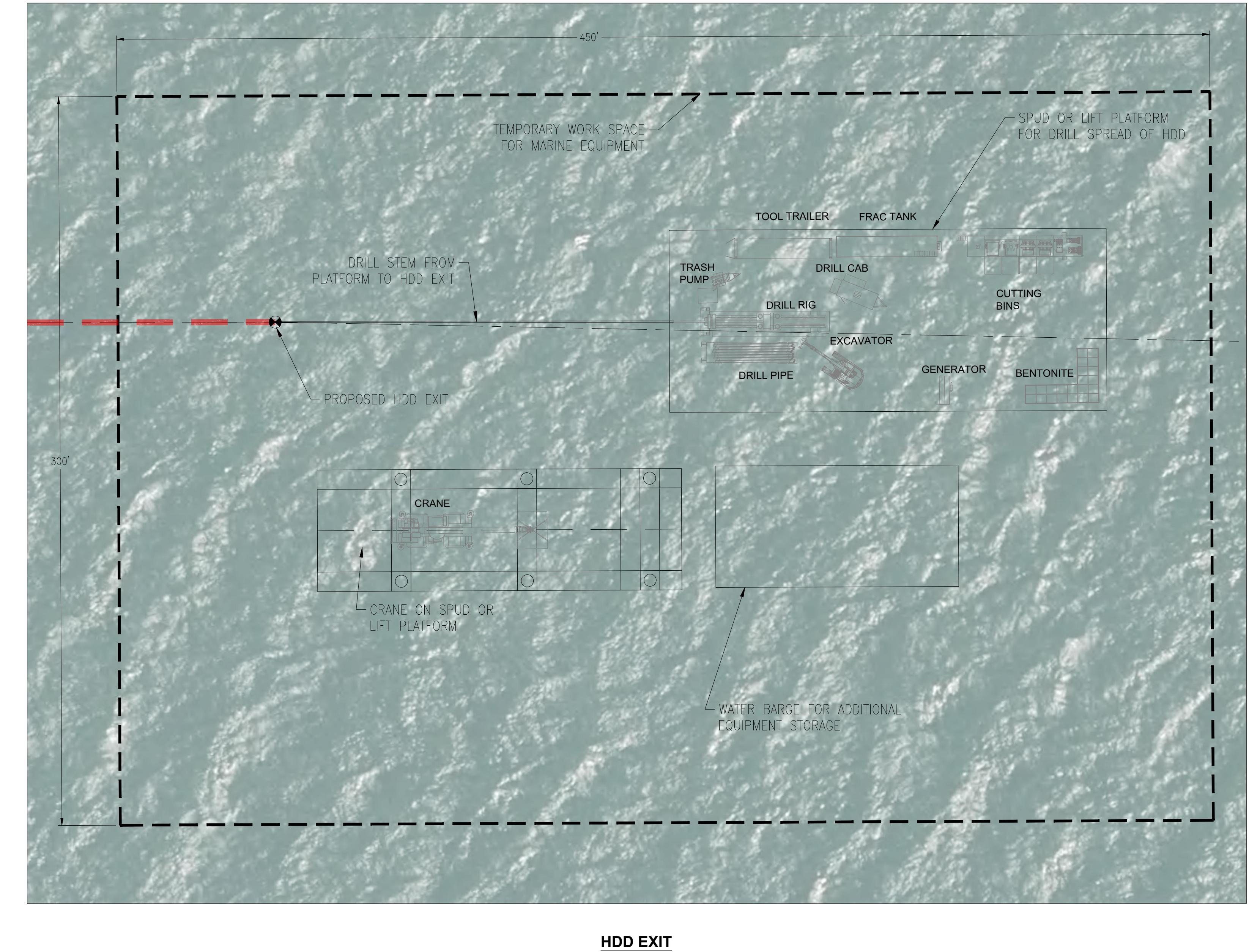
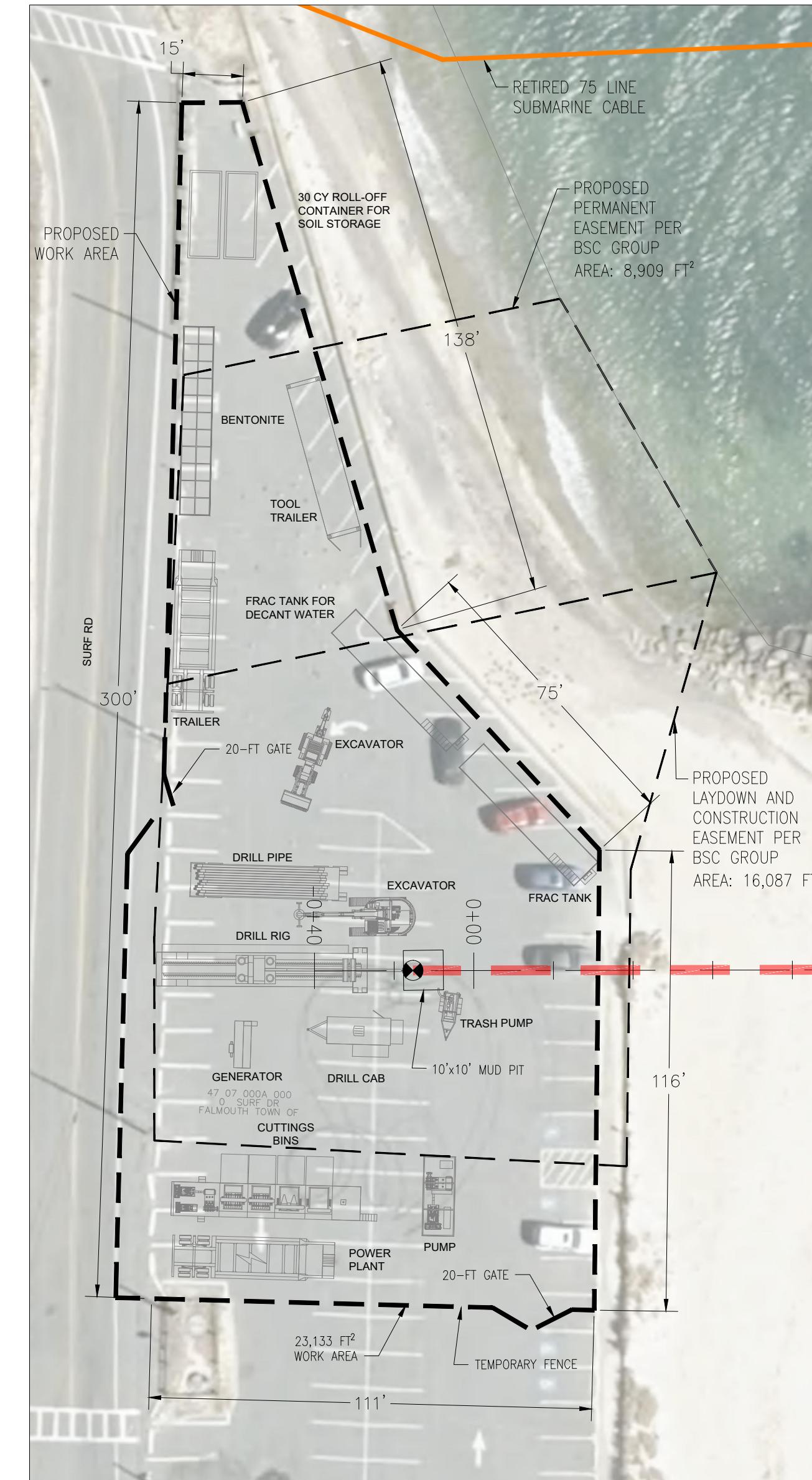
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HORIZONTAL SCALE: 1" = 20'      VERTICAL SCALE: 1" = 8'



No	DATE	ISSUED FOR PERMITTING	ASW	TPB	TPB	TPB
E	03/23/2023	ADDED HDD CALLOUTS - NO ALIGNMENT CHANGE	ASW	TPB	TPB	TPB
D	01/30/2023	ADDED ENVIRONMENTAL LAYERS FROM EVS	ASW	TPB	TPB	TPB
C	12/19/2022	ISSUED FOR REVIEW - ADDED ENVIRONMENTAL LAYERS FROM EVS	LAS	TPB	TPB	TPB
B	11/18/2022	ISSUED FOR REVIEW - REVISED 30%	LAS	TPB	ASW	TPB
A	11/11/2022	ISSUED FOR REVIEW - 30% PLAN	LAS	TPB	ASW	TPB
			BY	CHKD	ENGR	SUPV

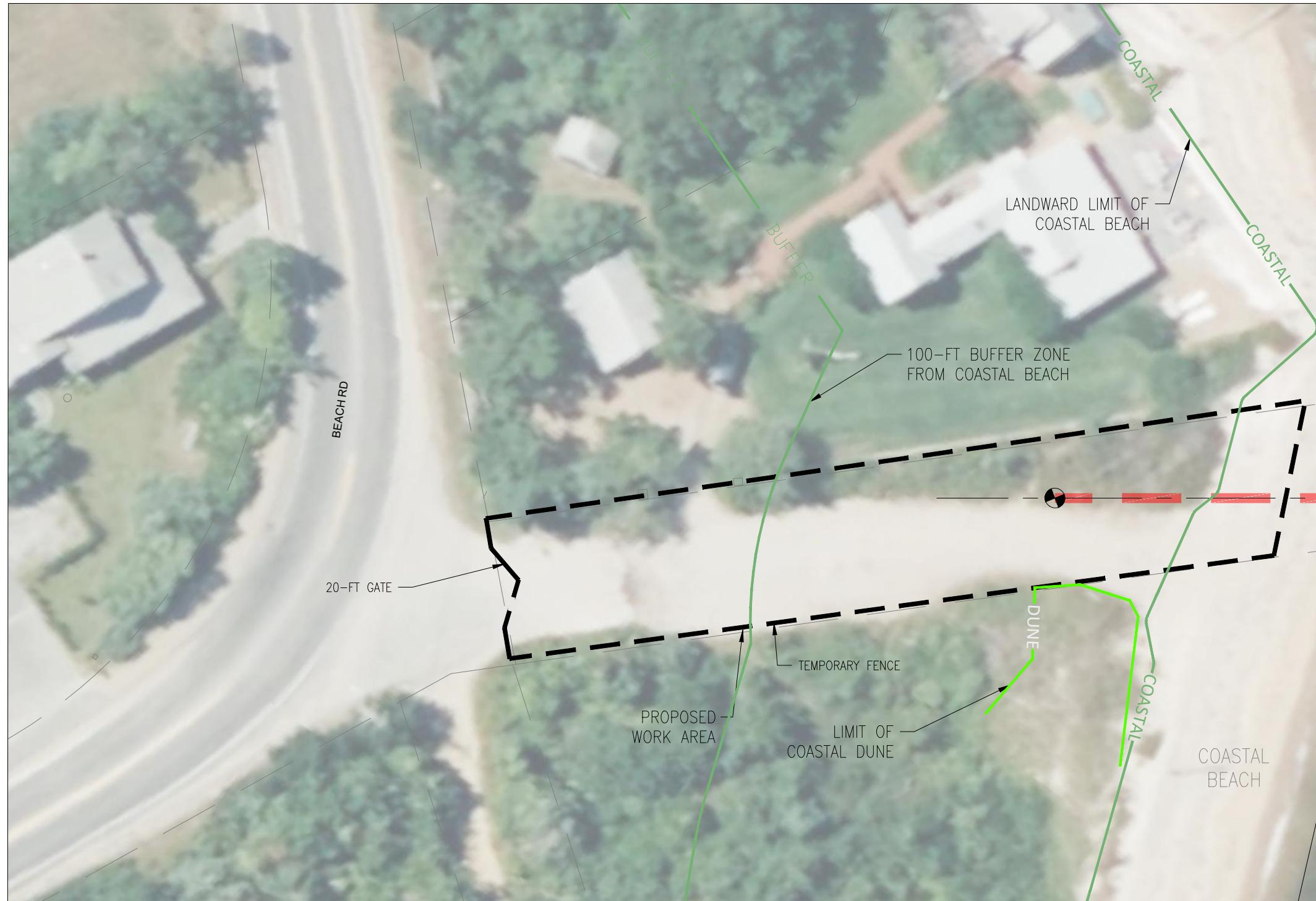
PROJ #	0237849_0000	WORK #	80047133	DRAWN	LAS	CHECKED	TPB	DESIGN ENG	ASW	DESIGN SUPV	TPB	DATE	2022-11-11	SCALE	N.T.S.	19 OF 23	SHEET NAME	19
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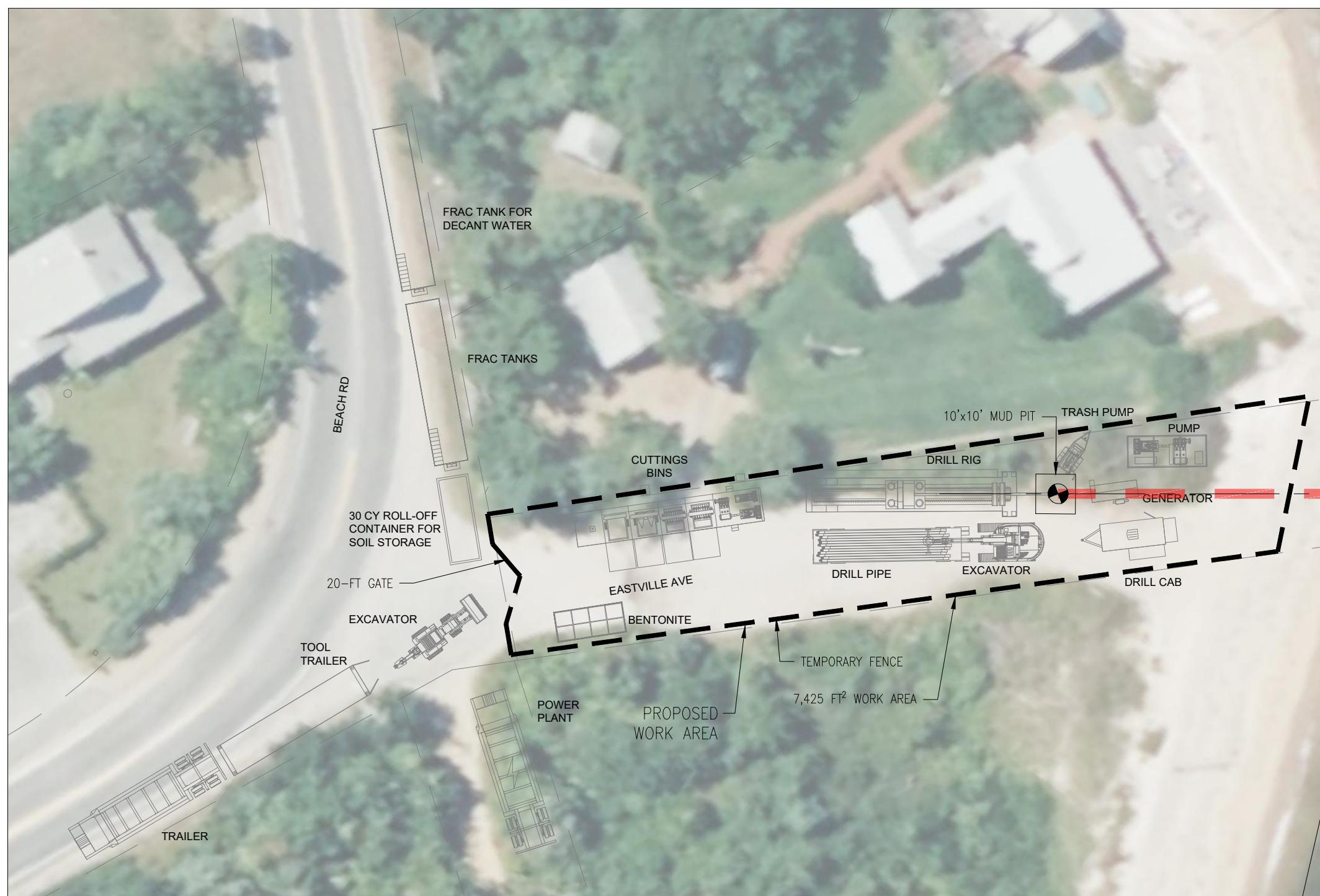
## NOTES

- THE UTILITIES AND NATURAL FEATURES SHOWN HEREON ARE BASED ON FIELD SURVEYS, AERIAL PHOTOGRAPHY AND RECORD DOCUMENTS. OTHER FACILITIES MAY EXIST NOT DISCOVERED THROUGH THE RECORD CHECK. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION, BOTH HORIZONTAL AND VERTICAL, OF ALL UTILITIES THROUGH THE APPROPRIATE UTILITY COMPANIES. 811 OR (888) 344-7233.
- VERTICAL LOCATION OF SUBSURFACE UTILITY LINES ARE BASED ON ASSUMED DEPTHS AND MAY VARY FROM THE ACTUAL VERTICAL LOCATIONS.
- ALL PROFILE VERTICAL CURVES ARE 400' RADIUS UNLESS OTHERWISE NOTED.
- EXISTING LINE 99 & RETIRED LINE 75 COME TO SHORE DIRECT BURIED AT THIS LOCATION - CONTRACTOR TO EXERCISE CAUTION.

0 15 30 60 90 FEET  
HORIZONTAL SCALE: 1" = 30'



HDD ENTRY - ENVIRONMENTAL LAYER

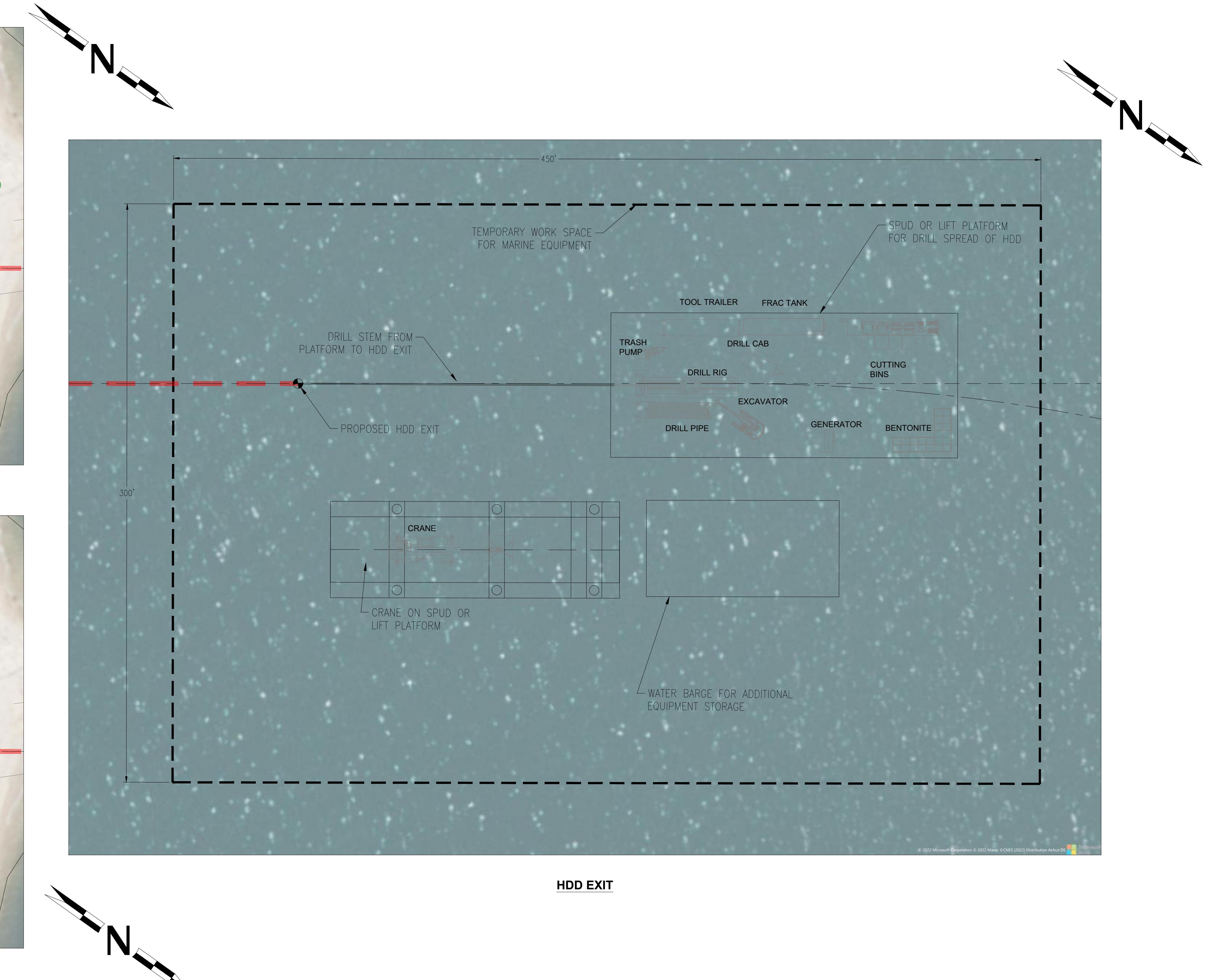


## HDD ENTRY - EQUIPMENT WITHOUT ENVIRONMENTAL LAYER

## NOTES

1. THE UTILITIES AND NATURAL FEATURES SHOWN HEREON ARE BASED ON FIELD SURVEYS, AERIAL PHOTOGRAPHY AND RECORD DOCUMENTS. OTHER FACILITIES MAY EXIST NOT DISCOVERED THROUGH THE RECORD CHECK. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION, BOTH HORIZONTAL AND VERTICAL, OF ALL UTILITIES THROUGH THE APPROPRIATE UTILITY COMPANIES. 811 OR (888) 344-7233.
  2. VERTICAL LOCATION OF SUBSURFACE UTILITY LINES ARE BASED ON ASSUMED DEPTHS AND MAY VARY FROM THE ACTUAL VERTICAL LOCATION.
  3. ALL PROFILE VERTICAL CURVES ARE 400' RADIUS UNLESS OTHERWISE NOTED.
  4. EXISTING LINE 99 & RETIRED LINE 75 COME TO SHORE DIRECT BURIED AT THIS LOCATION – CONTRACTOR TO EXERCISE CAUTION.

HORIZONTAL SCALE: 1" = 30'



UICAD FILE NAME: U23/849-0000 - MV /0 Combined Plan & Profile horizontal bend.dwg



No	DATE	REVISION	BY	CHKD	ENGR
E	03/23/2023	ISSUED FOR PERMITTING	ASW	TPB	TPB
D	01/30/2023	ADDED HDD CALLOUTS - NO ALIGNMENT CHANGE	ASW	TPB	TPB
C	12/19/2022	ISSUED FOR REVIEW - ADDED ENVIRONMENTAL LAYERS FROM EVS	LAS	TPB	TPB
B	11/18/2022	ISSUED FOR REVIEW - REVISED 30% PLAN	LAS	TPB	ASW
A	11/11/2022	ISSUED FOR REVIEW - 30% PLAN	ASW	TPB	TPB

**EVERSOURCE**

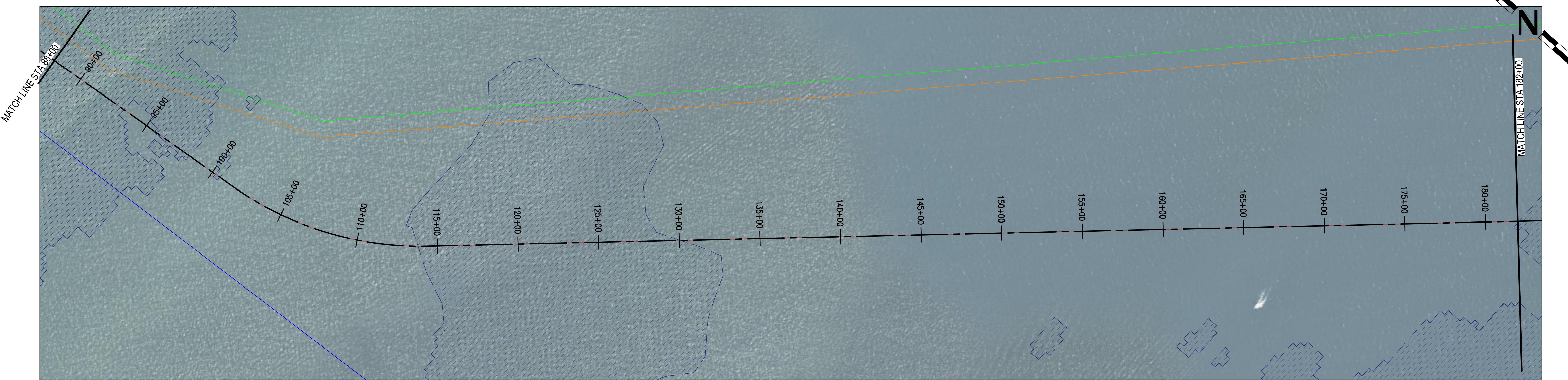
PROJ #	MARTHA'S VINEYARD SUBMARINE LINE #70			
0237849_0000				
WORK #	FALMOUTH TO MARTHA'S VINEYARD, MA			
80047133				
DRAWN	DRC	OAK BLUFFS EQUIPMENT LAYOUT		
CHECKED	TPB			
DESIGN ENG	ASW	DATE	SCALE	SHEET
DESIGN SURV	TPB	2022-11-11	1" = 20'	21 OF 23
				SHEET NAME 21



STATION #933

PLAN VIEW

OAK BLUFFS LANDING



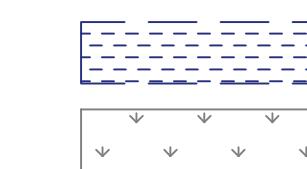
#### NOTES

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- EXISTING LINE 99 & RETIRED LINE 75 COME TO SHORE DIRECT BURIED AT THIS LOCATION - CONTRACTOR TO EXERCISE CAUTION.

PLAN VIEW

0 150 300 600 900 FEET  
HORIZONTAL SCALE: 1" = 300'

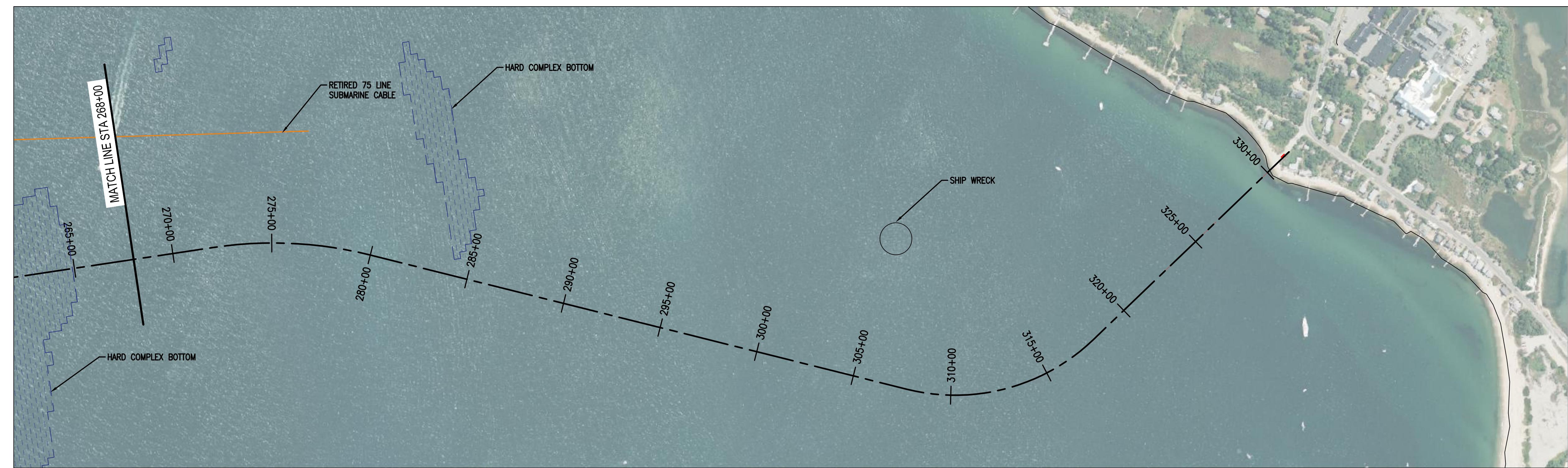
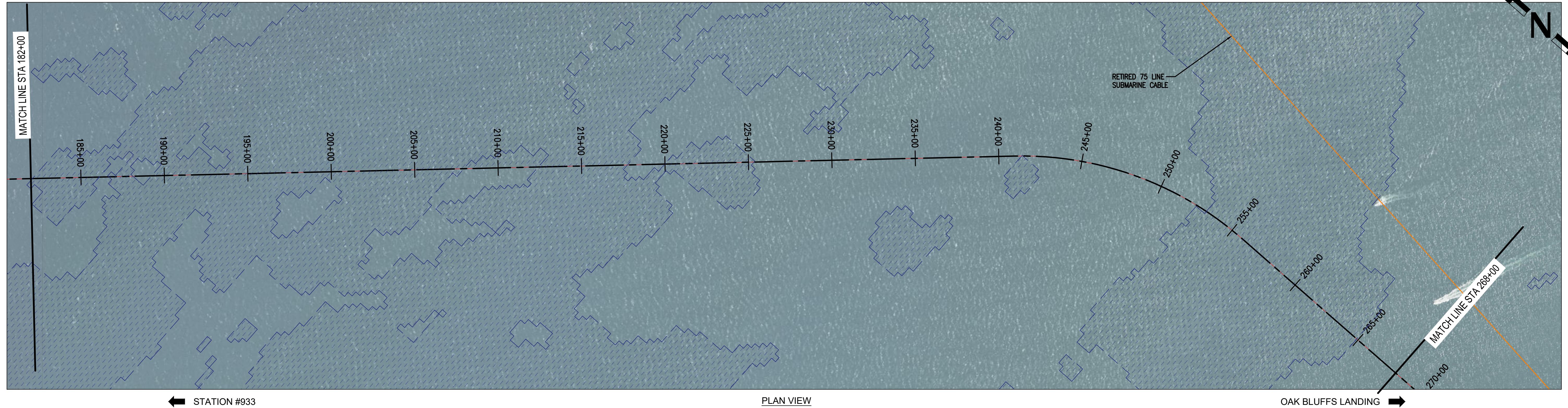
ENVIRONMENTAL LAYERS PROVIDED BY EVERSOURCE 12-02-2022



HARD COMPLEX BOTTOM  
EELGRASS

ELECTRIC LINE LEGEND

	PROPOSED FIFTH (5) 23KV SUBMARINE LINE #70
	EXISTING NSTAR/COMCAST 75 LINE
	RETIRED 75 LINE
	EXISTING 99 LINE
	RETIRED 100 LINE



#### NOTES

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