



PUBLIC NOTICE

US Army Corps
of Engineers
New York District
Jacob K. Javits Federal Building
New York, N.Y. 10278-0090
ATTN: Regulatory Branch

In reply to:
Public Notice Number: NAN-2018-00276-EHA
Issue Date: March 21, 2019
Expiration Date: April 22, 2019

To Whom It May Concern:

The New York District, Corps of Engineers has received an application for a Department of the Army permit pursuant to Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403).

APPLICANT: America Europe Connect 2 USA
Attn: Mike Sauer
85 East End Avenue, Apt 15E
New York, New York 10028

ACTIVITY: Installation of one fiber-optic submarine telecommunications cable and utility ground anode array.

WATERWAY: Atlantic Ocean

LOCATION: Borough of Avon-by-the-Sea, Monmouth County, New Jersey to Ireland, Norway and Denmark.

A detailed description and plans of the applicant's activity are enclosed to assist in your review.

The decision whether to issue a permit will be based on an evaluation of the probable impact including cumulative impacts 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 reasonably may be expected to 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, historic properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership and, in general, the needs and welfare of the people.

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 environmental effects, and the other public interest factors listed above. Comments are used in 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.

ALL COMMENTS REGARDING THE PERMIT APPLICATION MUST BE PREPARED IN WRITING AND MAILED TO REACH THIS OFFICE BEFORE THE EXPIRATION DATE OF THIS NOTICE,
otherwise, it will be presumed that there are no objections to the activity.

Comments submitted in response to this notice will be fully considered during the public interest review for this permit application. Comments provided will become part of the public record for this permit application. All written comments, including contact information, will be made a part of the administrative record, available to the public under the Freedom of Information Act. The Administrative Record, or portions thereof, may also be posted on a Corps of Engineers internet web site. Due to resource limitations, this office will normally not acknowledge the receipt of comments or respond to individual letters of comment.

Any person may request, in writing, before this public notice expires, that a public hearing be held to collect information necessary to consider this application. Requests for public hearings shall state, with particularity, the reasons why a public hearing should be held. It should be noted that information submitted by mail is considered just as carefully in the permit decision process and bears the same weight as that furnished at a public hearing.

Our preliminary determination is that the activity for which authorization is sought herein is not likely to affect any Federally endangered or threatened species or their critical habitat. However, pursuant to Section 7 of the Endangered Species Act (16 U.S.C. 1531), the District Engineer is consulting with the appropriate Federal agency to determine the presence of and potential impacts to listed species in the project area or their critical habitat.

The Magnuson-Stevens Fishery Conservation and Management Act, as amended by the Sustainable Fisheries Act (Public Law 104-267), requires all Federal agencies to consult with the National Oceanic and Atmospheric Administration Fisheries Service (NOAA/FS) on all actions, or proposed actions, permitted, funded, or undertaken by the agency, that may adversely affect Essential Fish Habitat (EFH). The proposed work, fully described in the attached work description, could cause the disruption of habitat for various lifestages of some EFH-designated species as a result of a temporary increase in turbidity during construction. However, the New York District has made the preliminary determination that the site-specific adverse effects are not likely to be substantial because it is expected that fish populations would avoid the small area of disturbance. Further consultation with NOAA/FS regarding EFH impacts and conservation recommendations being conducted and will be concluded prior to the final decision.

Based upon a review of the HAVFRUE Cable System Marine Acrhaeological Resource Assessment Report, prepared by SEARCH, and dated October 1, 2018, there are two confirmed shipwrecks and one area of potential wreckage along the proposed route. The applicant states a 1,000 foot exclusion zone would be placed around these sites and no proposed work would occur within the exclusion zone. Presently unknown archeological, scientific, prehistorical, or historical data may be lost by work accomplished under the required permit.

Reviews of activities pursuant to Section 404 of the Clean Water Act will include application of the guidelines promulgated by the Administrator, U.S. Environmental Protection Agency, under authority of Section 404 (b) of the Clean Water Act and the applicant will obtain a water quality certificate or waiver from the appropriate state agency in accordance with Section 401 of the Clean Water Act prior to a permit decision.

Pursuant to Section 307 (c) of the Coastal Zone Management Act of 1972 as amended [16 U.S.C. 1456 (c)], for activities under consideration that are located within the coastal zone of a state which has a federally approved coastal zone management program, the applicant has certified in the permit application that the activity complies with, and will be conducted in a manner that is consistent with, the approved state coastal zone management program. By this public notice, we are requesting the state's concurrence with, objection to, or waiver of the applicant's certification. No permit decision will be made until one of these actions occurs. For activities within the coastal zone

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of New Jersey State, the applicant's certification and accompanying information is available from the New Jersey Department of Environmental Protection, Coastal Management Program, P.O. Box 418, 401 E. State Street, Trenton, NJ, 08625, Telephone (609) 633-2201. Comments regarding the applicant's certification, and copies of any letters to this office commenting upon this proposal, should be so addressed.

In addition to any required water quality certificate and coastal zone management program concurrence, the applicant has obtained or requested the following governmental authorization for the activity under consideration:

- New Jersey Department of Environmental Protection

It is requested that you communicate the foregoing information concerning the activity to any persons known by you to be interested and who did not receive a copy of this notice. If you have any questions concerning this application, you may contact this office at (917) 790-8523 and ask for Naomi Handell.

In order for us to better serve you, please complete our Customer Service Survey located at <http://www.nan.usace.army.mil/Missions/Regulatory/CustomerSurvey.aspx>.

For more information on New York District Corps of Engineers programs, visit our website at <http://www.nan.usace.army.mil>.

Stephan A. Ryba
For and In behalf of
Stephan A. Ryba
Chief, Regulatory Branch

Enclosures

WORK DESCRIPTION

The applicant, America Europe Connect 2 USA, Inc., has requested Department of the Army authorization for installation of a submarine fiber-optic cable (HAVFRUE cable) in the Atlantic Ocean, from Borough of Avon-by-the-Sea, Monmouth County, New Jersey to Ireland, Norway, and Denmark.

The work would involve the installation of approximately 4,769 miles of 1.41 maximum diameter underwater fiber-optic telecommunication cable. The cable would originate in an existing 5-inch diameter steel conduit located in an upland paved parking lot at the intersection of Lakeside Avenue and Ocean Avenue, in Avon-by-the-Sea and extend through the conduit approximately 2,444 linear feet offshore where the conduit terminates. From the offshore end of the conduit to a location where a water depth of approximately 3,281-feet (1,000-meters) is encountered, the cable will be buried to depths ranging from approximately 3.3-feet to 6.6-feet using a combination of diver-operated jetting burial tools, Seaplow and Remotely Operated Vehicle (ROV). Additionally, approximately 65 to 80 feet from the existing conduit, a buried earth ground anode array and cable would be installed by divers with manual jetting tools. The ground cable would be 2,625 linear feet. Approximately 2,545 linear feet of ground cable would be located in the existing conduit and approximately 65 to 80 feet of ground cable would extend from the end of conduit to approximately 6 anodes. The ground cable and anodes would be buried approximately 3.9-feet below the seabed.

Starting from the seaward end of the conduit, approximately 2,684 linear feet of the proposed cable would be buried via diver-operated jetting. At water depths of approximately 50-feet, the Seaplow would install approximately 115 nautical miles of cable to a depth of approximately 3.9-feet. The ROV would be used to cross three (3) in-service cables and re-burial of sixteen (16) cut out-of-service cables. The out-of-service cables would be cut by the applicant prior to installation of the proposed HAVFRUE cable. Beyond the 3,281-foot water depth, the cable would be surface laid on the ocean floor until it exits the U.S. 200 nautical mile Exclusive Economic Zone, continuing through international waters to its endpoints in Ireland, Norway and Denmark.

The proposed work would temporarily disturb approximately 260 acres of ocean bottom.

The applicant has stated they have avoided, minimized and mitigated for proposed impacts by minimizing construction to the smallest area practicable, avoiding the Northeast Canyons and Seamounts National Marine Monument, operating the cable installation vessel at slow and controlled speeds, and using dynamic positioning to ensure correct cable placement.

The stated purpose of this project is to provide telecommunications connectivity in the United States and Europe.

NAN-2018-00276-CNA

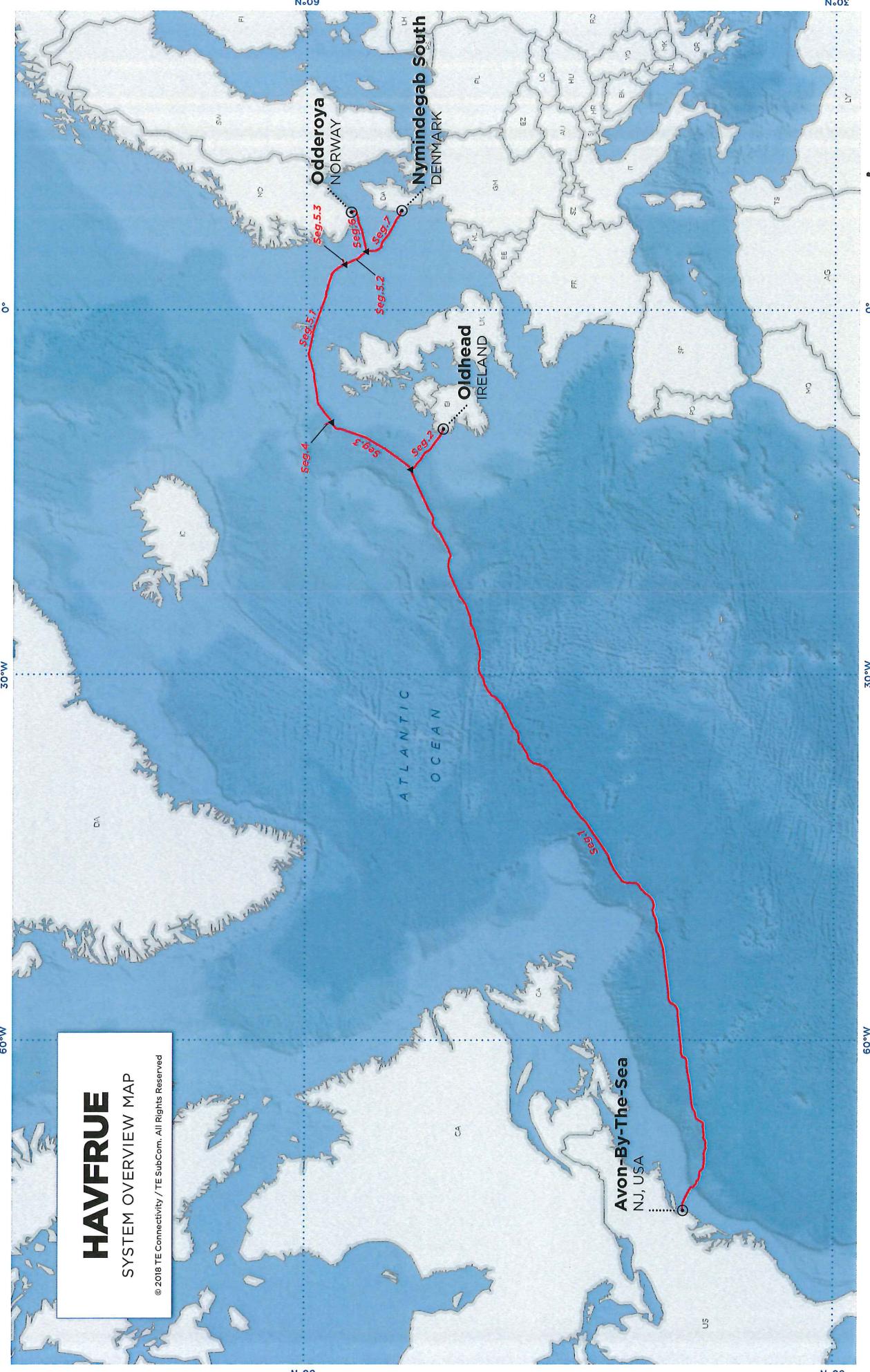
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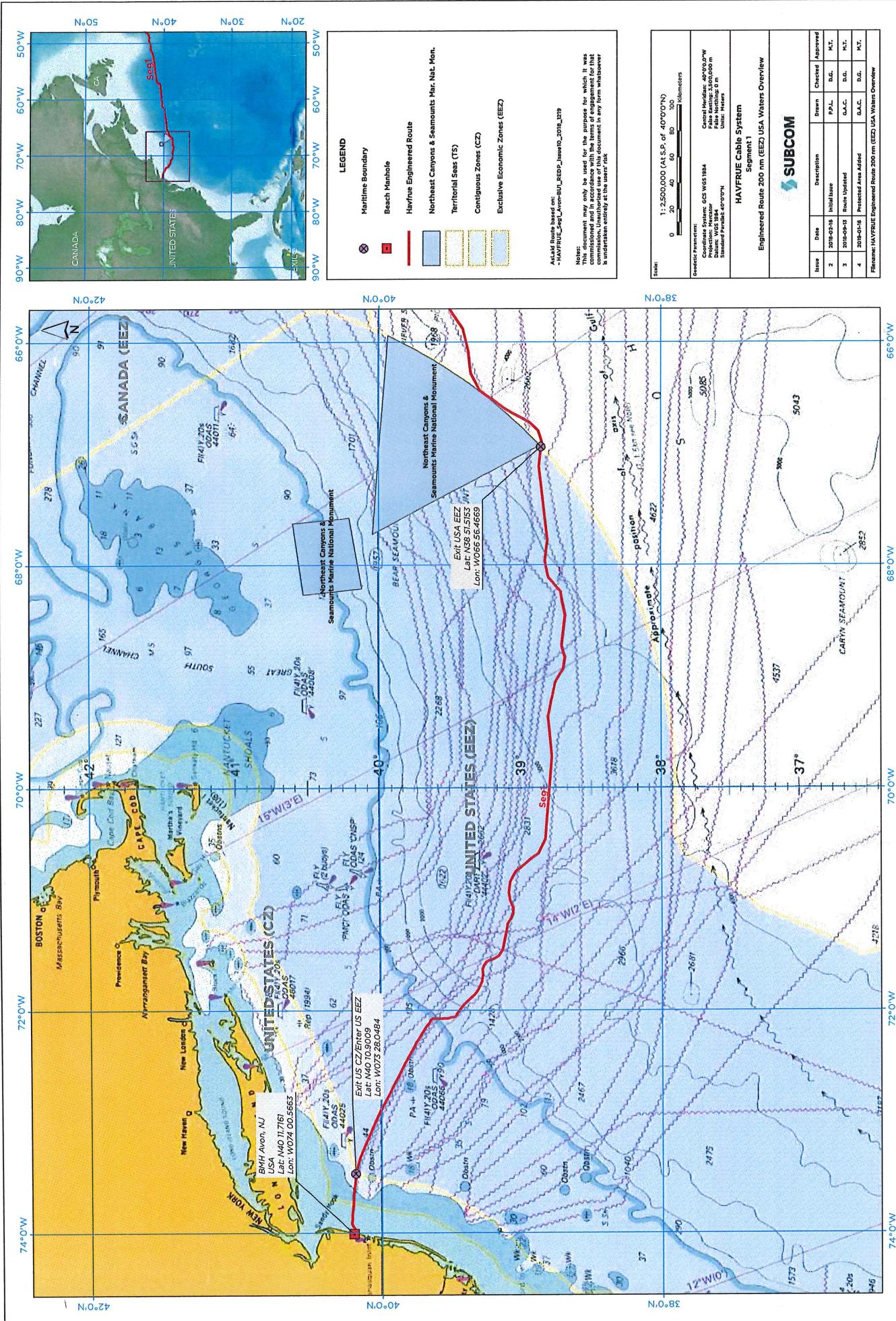
SYSTEM OVERVIEW MAP

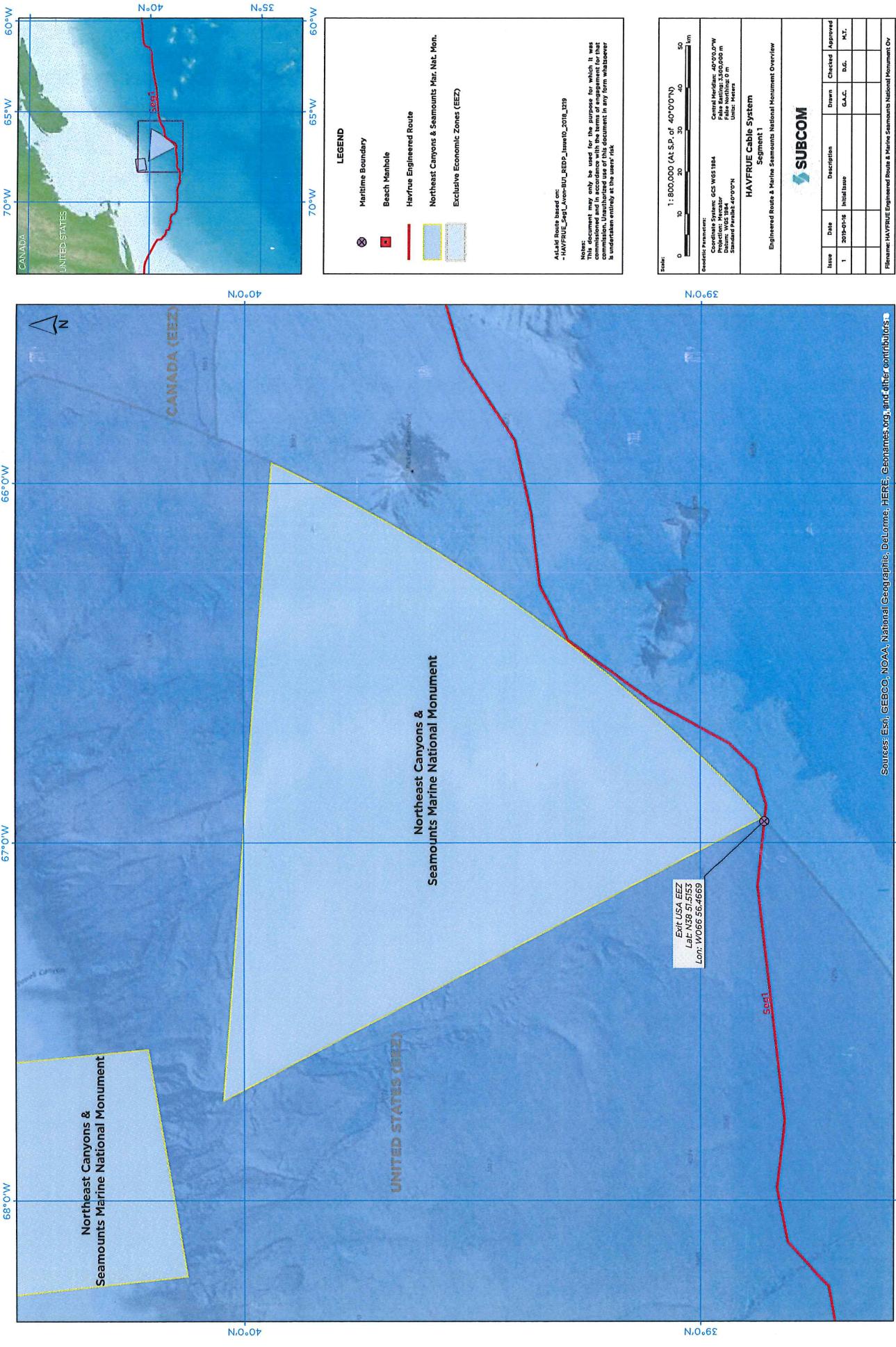
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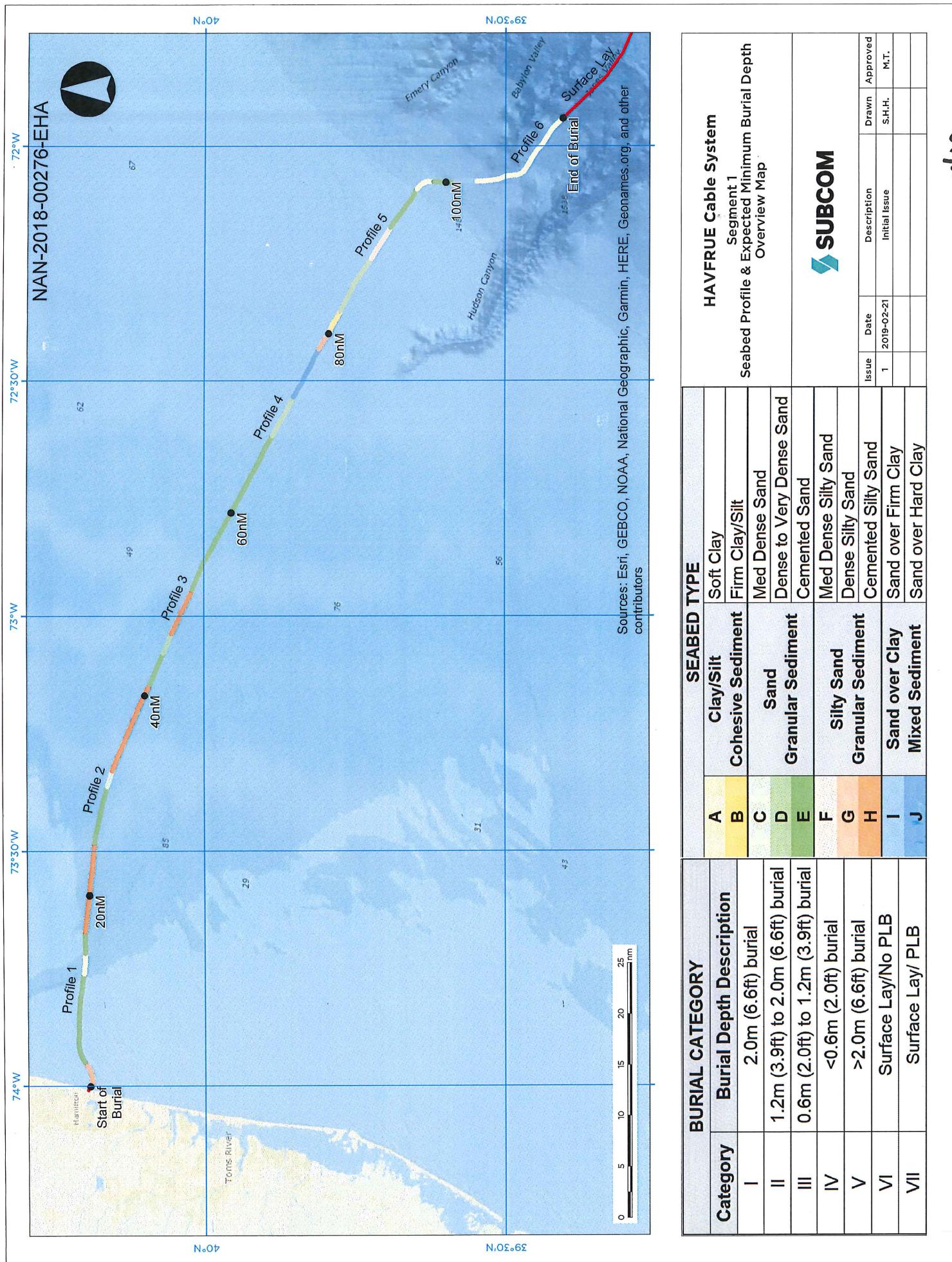


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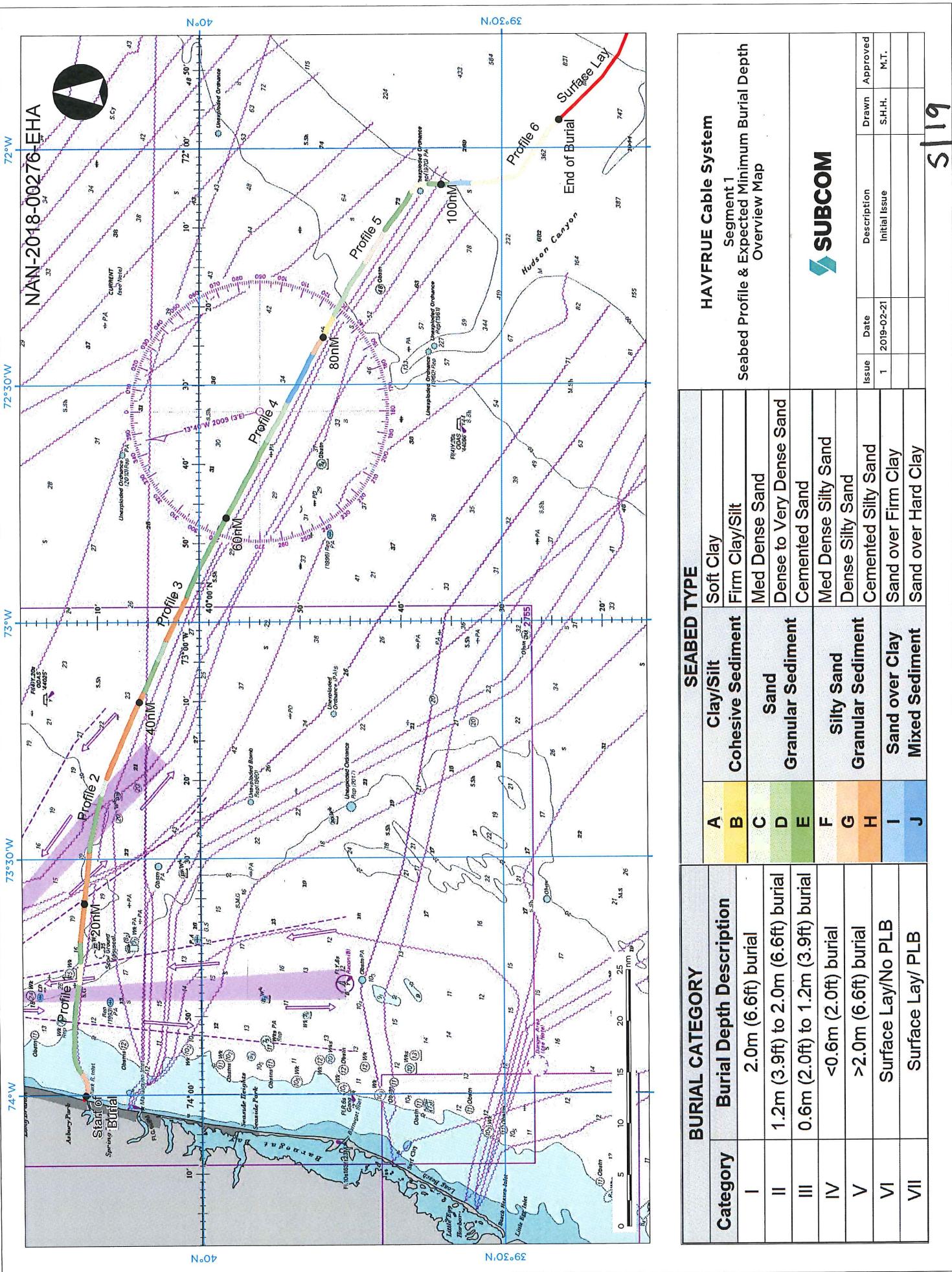




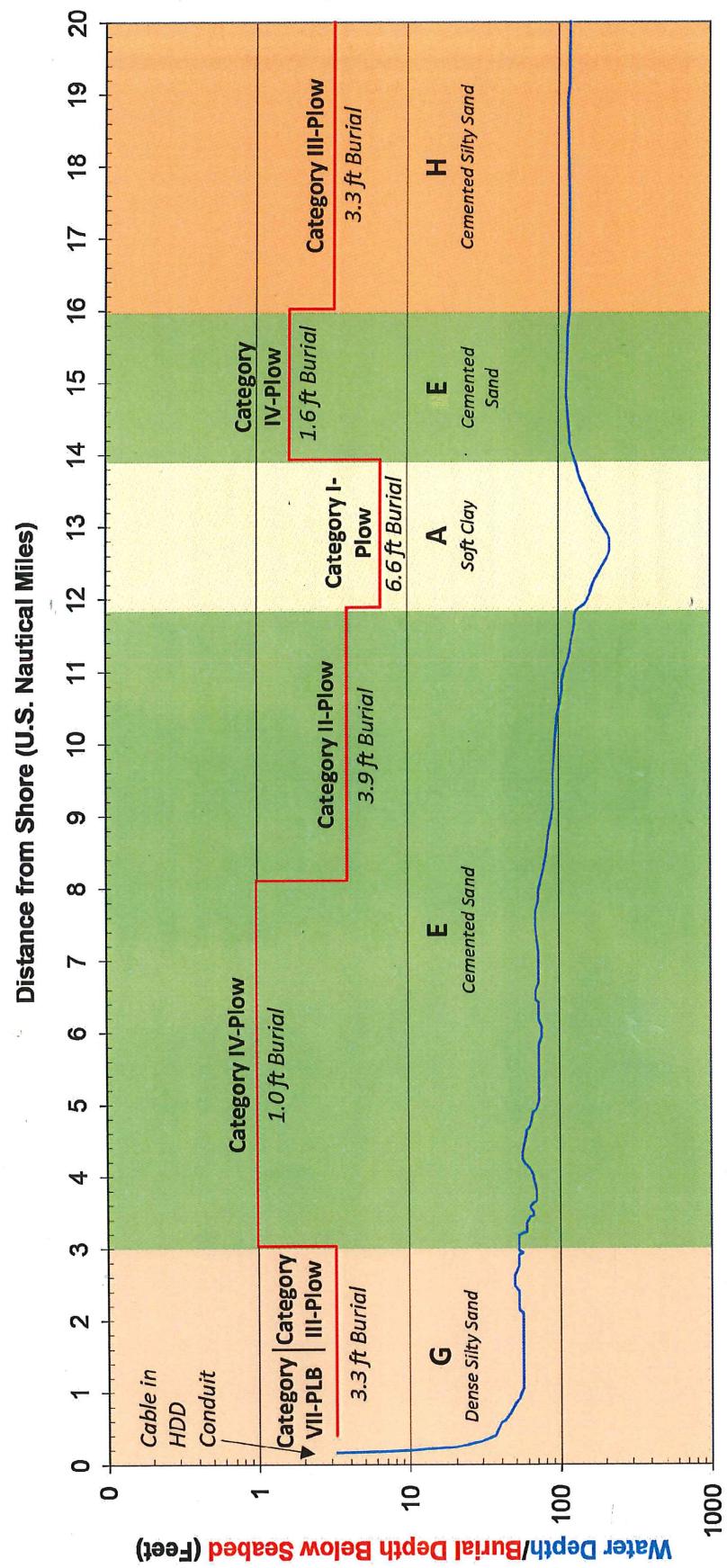
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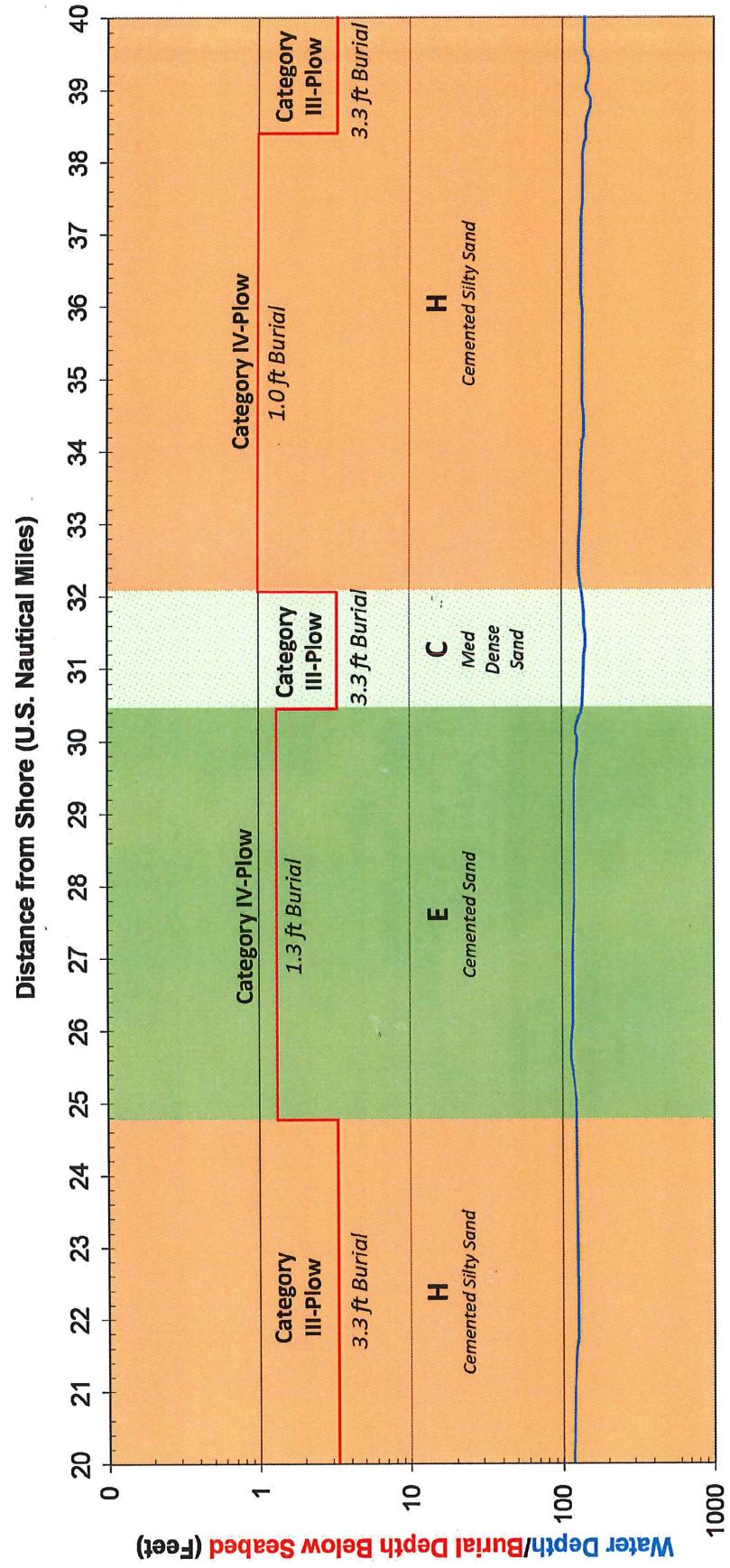


HAVFRUE Segment 1
Seabed Profile & Expected Minimum Burial Depth
0-20 Nautical Miles from Shore



BURIAL CATEGORY		SEABED TYPE			HAVFRUE Cable System									
Category	Burial Depth Description	A Clay/Silt	B Cohesive Sediment	C Sand	D Granular Sediment	E Silty Sand	F Granular Sediment	G Cemented Silty Sand	H Cemented Sand	I Sand over Firm Clay	J Sand over Hard Clay	Segment 1 Profile 1	Segment 1 Profile 1	Approved S.H.H. M.T.
I	2.0m (6.6ft) burial													
II	1.2m (3.9ft) to 2.0m (6.6ft) burial													
III	0.6m (2.0ft) to 1.2m (3.9ft) burial													
IV	<0.6m (2.0ft) burial													
V	>2.0m (6.6ft) burial													
VI	Surface Lay/No PLB													
VII	Surface Lay/ PLB													

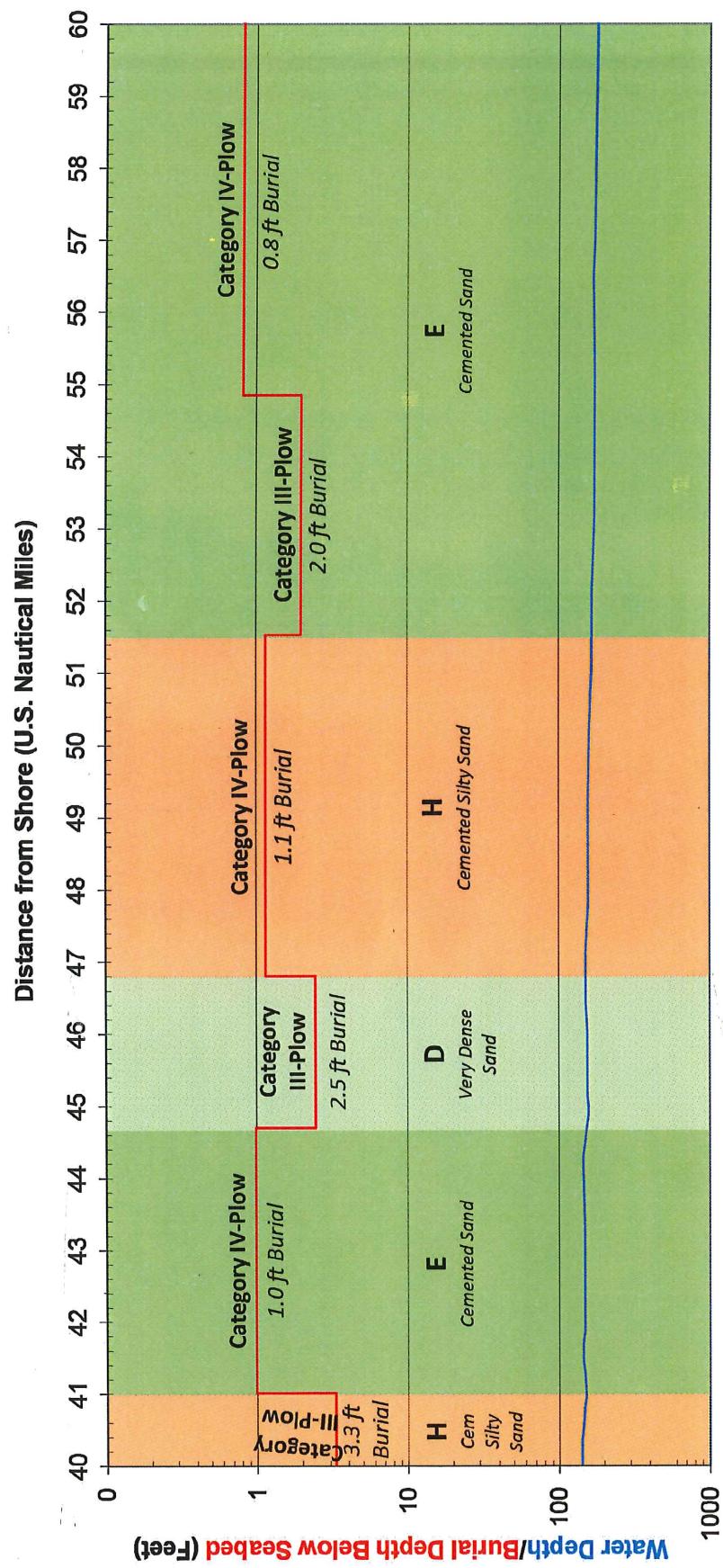
HAVFRUE Segment 1
Seabed Profile & Expected Minimum Burial Depth
20-40 Nautical Miles from Shore



BURIAL CATEGORY		SEABED TYPE			HAVFRUE Cable System		
Category	Burial Depth Description	A	Clay/Silt	Soft Clay	Segment 1	Segment 2	Approved
I	2.0m (6.6ft) burial	B	Cohesive Sediment	Firm Clay/Silt	Med Dense Sand	Dense to Very Dense Sand	S.H.H.
II	1.2m (3.9ft) to 2.0m (6.6ft) burial	C	Sand		Cemented Sand		M.T.
III	0.6m (2.0ft) to 1.2m (3.9ft) burial	D	Granular Sediment		Med Dense Silty Sand		
IV	<0.6m (2.0ft) burial	E			Dense Silty Sand		
V	>2.0m (6.6ft) burial	F	Silty Sand		Cemented Silty Sand		
VI	Surface Lay/No PLB	G	Granular Sediment		Sand over Firm Clay		
VII	Surface Lay/PLB	H			Sand over Hard Clay		
		I	Sand over Clay				
		J	Mixed Sediment		Sand over Hard Clay		

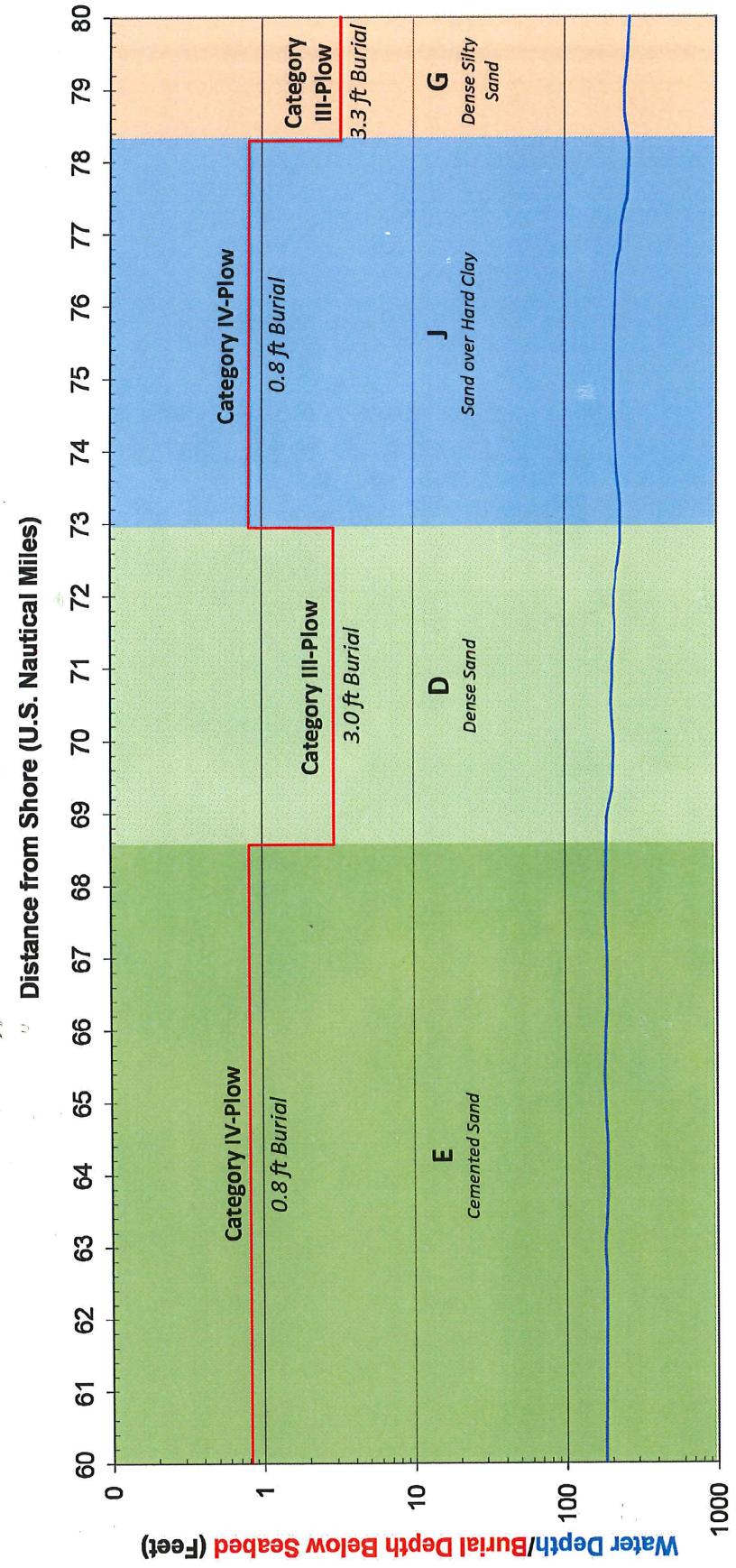
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HAVFRUE Segment 1 Seabed Profile & Expected Minimum Burial Depth 40-60 Nautical Miles from Shore



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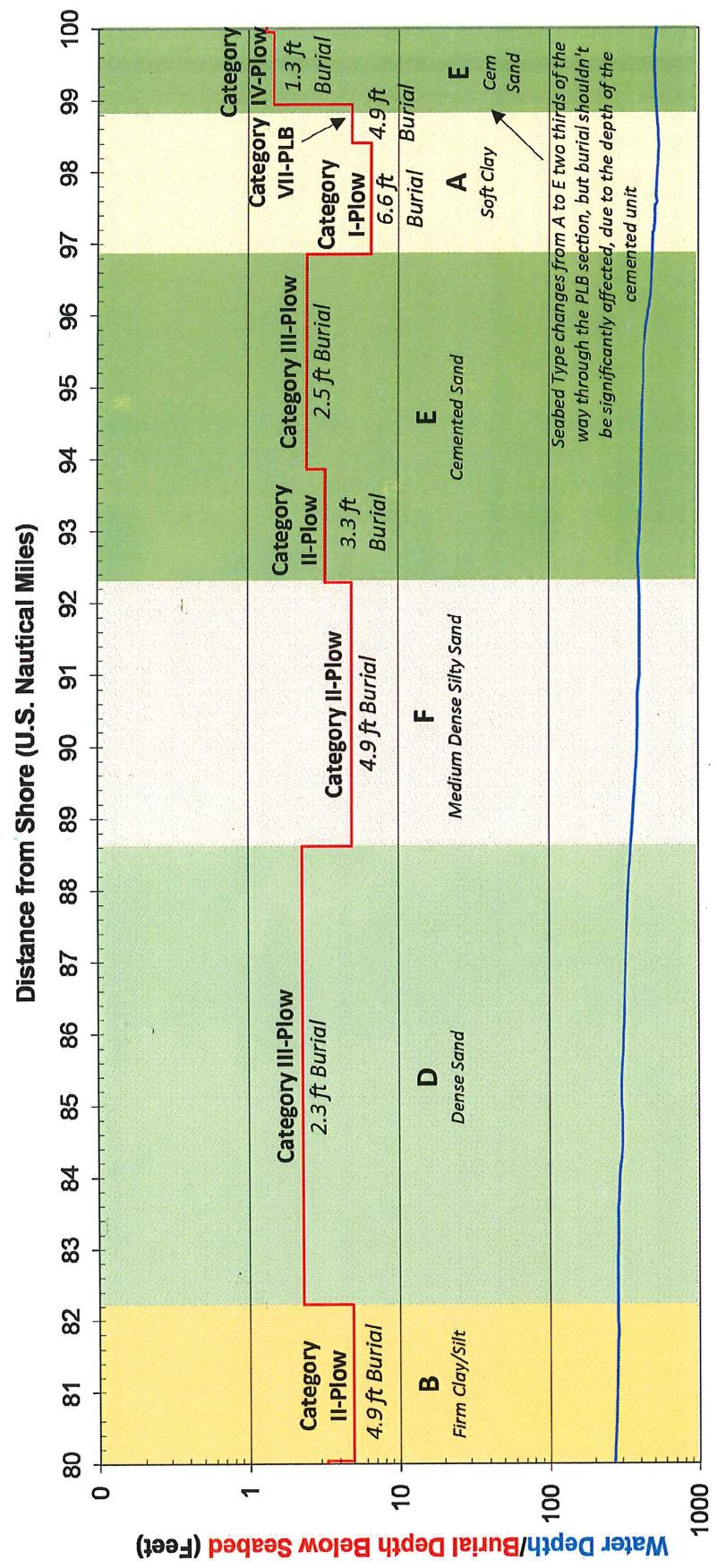
HAVFRUE Segment 1
Seabed Profile & Expected Minimum Burial Depth
60-80 Nautical Miles from Shore



BURIAL CATEGORY		SEABED TYPE			HAVFRUE Cable System		
Category	Burial Depth Description	A	Clay/Silt	Soft Clay	Segment 1	Segment 1	Approved
I	2.0m (6.6ft) burial	B	Cohesive Sediment	Firm Clay/Silt	Med Dense Sand	Seabed Profile & Expected Minimum Burial Depth	S.H.H.
II	1.2m (3.9ft) to 2.0m (6.6ft) burial	C	Sand	Dense to Very Dense Sand	Dense to Very Dense Sand	Profile 4	M.T.
III	0.6m (2.0ft) to 1.2m (3.9ft) burial	D	Granular Sediment	Cemented Sand	Cemented Sand		
IV	<0.6m (2.0ft) burial	E	Silty Sand	Med Dense Silty Sand	Med Dense Silty Sand		
V	>2.0m (6.6ft) burial	F	Granular Sediment	Dense Silty Sand	Dense Silty Sand		
VI	Surface Lay/No PLB	G		Cemented Silty Sand	Cemented Silty Sand		
VII	Surface Lay/PLB	H		Sand over Firm Clay	Sand over Firm Clay		
		I	Sand over Clay				
		J	Mixed Sediment	Sand over Hard Clay	Sand over Hard Clay		

919

HAVFRUE Segment 1
Seabed Profile & Expected Minimum Burial Depth
80-100 Nautical Miles from Shore



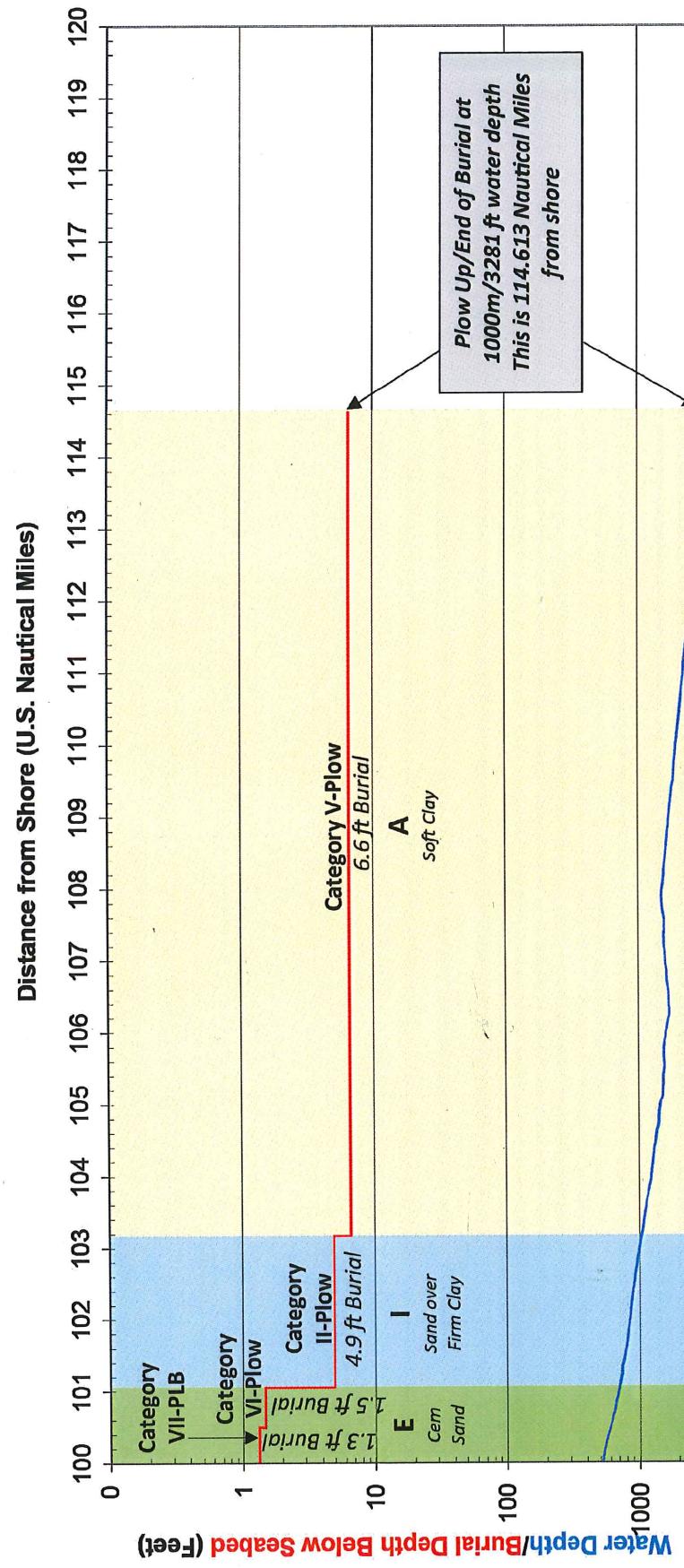
BURIAL CATEGORY		SEABED TYPE			HAVFRUE Cable System		
Category	Burial Depth Description	A	Clay/Silt	Soft Clay	Segment 1	Expected Minimum Burial Depth	
I	2.0m (6.6ft) burial	B	Cohesive Sediment	Firm Clay/Silt	Med Dense Sand	Dense to Very Dense Sand	
II	1.2m (3.9ft) to 2.0m (6.6ft) burial	C	Sand		Cemented Sand		
III	0.6m (2.0ft) to 1.2m (3.9ft) burial	D	Granular Sediment		Med Dense Silty Sand	Dense Silty Sand	
IV	<0.6m (2.0ft) burial	E	Silty Sand		Cemented Silty Sand		
V	>2.0m (6.6ft) burial	F	Granular Sediment		Sand over Firm Clay		
VI	Surface Lay/No PLB	G			Sand over Hard Clay		
VII	Surface Lay/ PLB	H			Mixed Sediment		

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Issue	Date	Description	Drawn	Approved
1	2019-02-21	Initial Issue	S.H.H.	M.T.

10/19

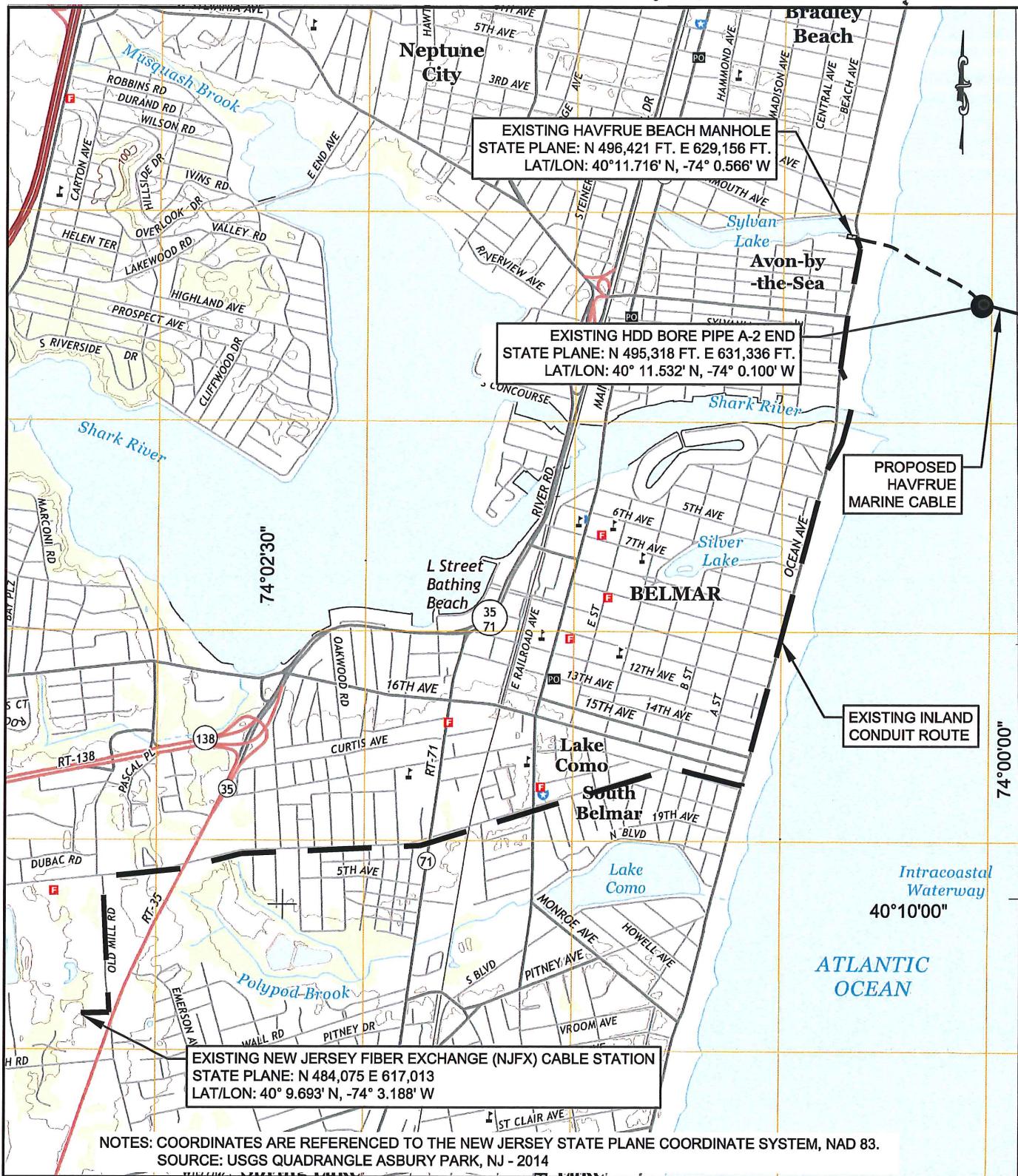
HAVFRUE Segment 1
Seabed Profile & Expected Minimum Burial Depth
100-120 Nautical Miles from Shore



BURIAL CATEGORY		SEABED TYPE			HAVFRUE Cable System		
Category	Burial Depth Description	A	Clay/Silt	Firm Clay/Silt	Segment 1	Segment 6	
I	2.0m (6.6ft) burial	C	Sand	Med Dense Sand	Seabed Profile & Expected Minimum Burial Depth		
II	1.2m (3.9ft) to 2.0m (6.6ft) burial	D	Granular Sediment	Dense to Very Dense Sand			
III	0.6m (2.0ft) to 1.2m (3.9ft) burial	E		Cemented Sand			
IV	<0.6m (2.0ft) burial	F	Silty Sand	Med Dense Silty Sand			
V	>2.0m (6.6ft) burial	G	Granular Sediment	Dense Silty Sand			
VI	Surface Lay/No PLB	H		Cemented Silty Sand			
VII	Surface Lay/ PLB	I	Sand over Clay	Sand over Firm Clay	Issue 1	Date 2019-02-21	Description Initial Issue
		J	Mixed Sediment	Sand over Hard Clay			Drawn S.H.H.
							Approved M.T.

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NAN-2018-00276-ETM

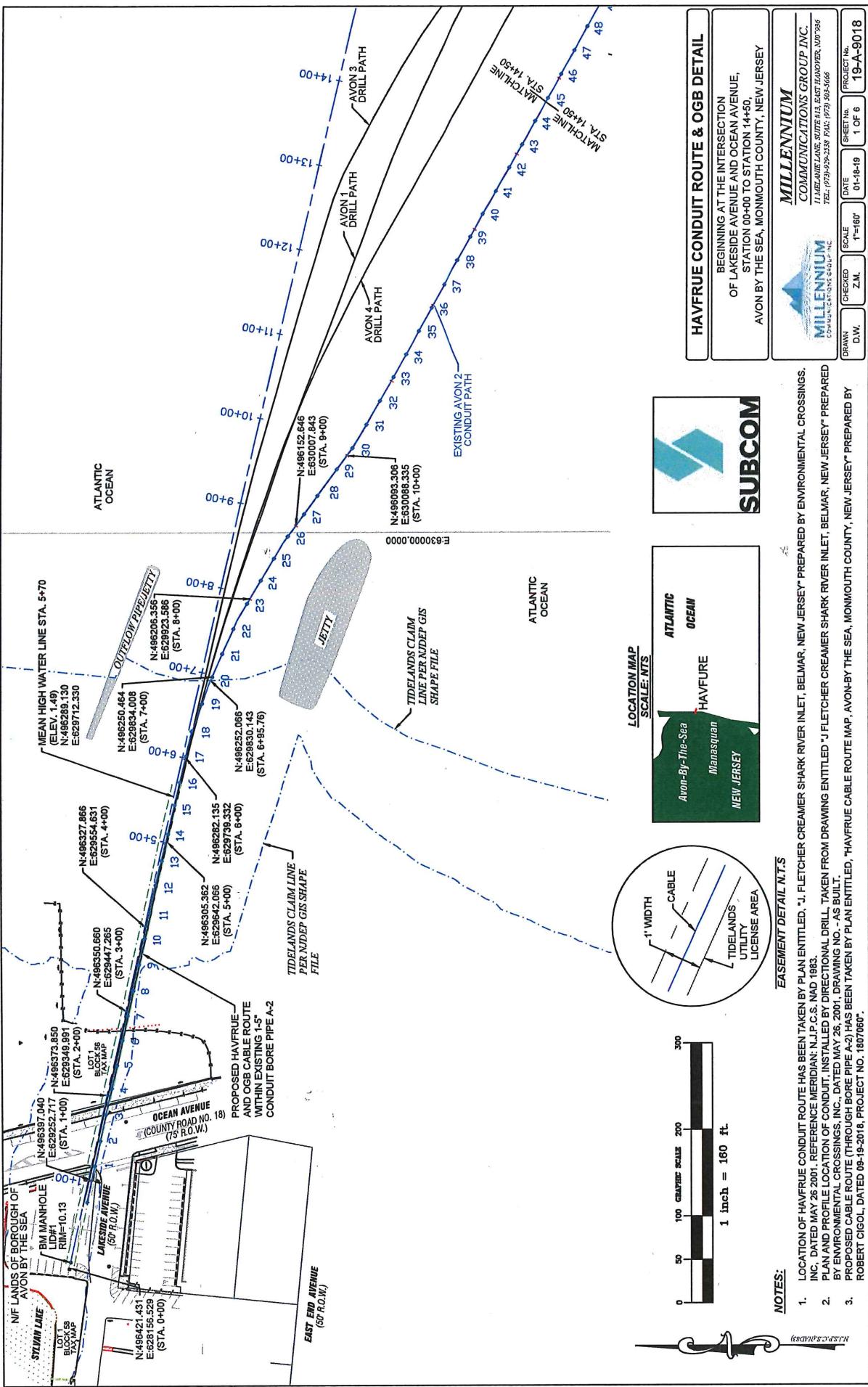


HAVFRUE CABLE SYSTEM
AVON-BY-THE-SEA, MONMOUTH COUNTY, NEW JERSEY
VICINITY MAP

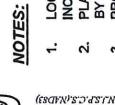
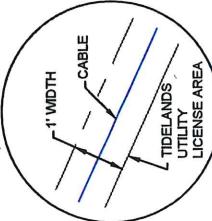
Michael Baker
INTERNATIONAL

DRAWING DATE: SEPTEMBER 7, 2018 | REVISION: 1 | SCALE: 1"=2000' | SHEET No. VIC-1

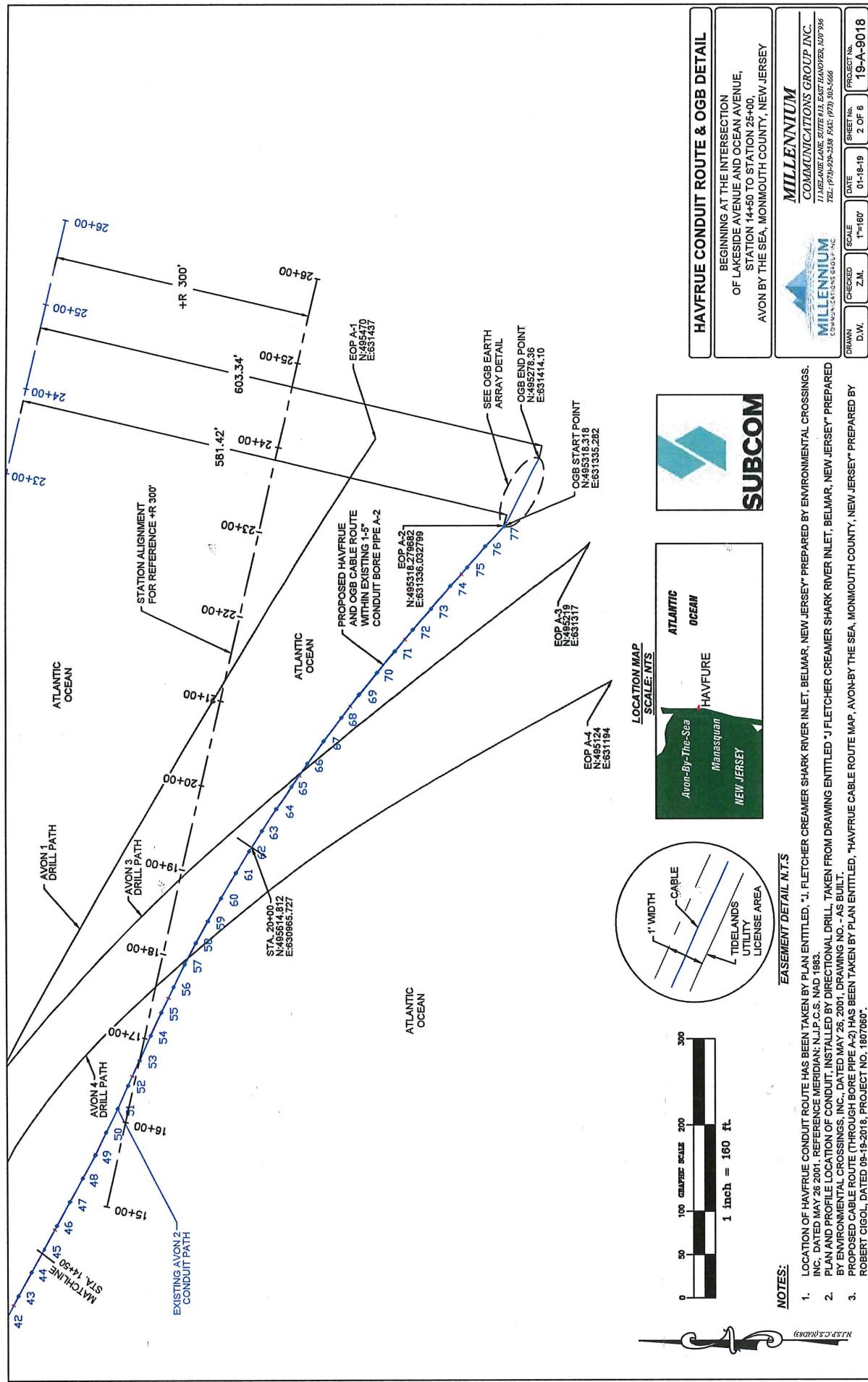
12/19



HAVFRUE CONDUIT ROUTE & OGB DETAIL			
BEGINNING AT THE INTERSECTION OF LAKESIDE AVENUE AND OCEAN AVENUE, STATION 00+00 TO STATION 14+50, AVON BY THE SEA, MONMOUTH COUNTY, NEW JERSEY			
 MILLENNIUM COMMUNICATIONS GROUP INC. 1 LAKEFRONT LANE, SUITE #115 EAST HANOVER, NJ 07956 TEL: (973) 282-2455 FAX: (973) 282-5666 DRAWN BY: [Signature] CHECKED BY: [Signature] SHEET NO. 01-1-18 DATE 01-1-18 PROJECT NO. 19-A-9018			

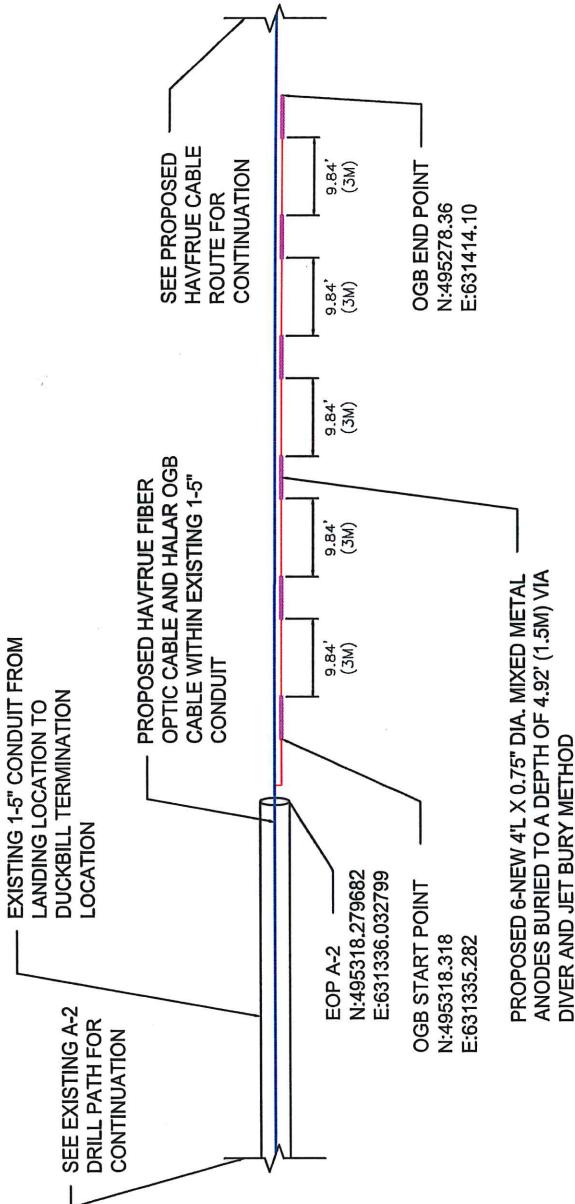


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OGB SEA EARTH ARRAY
SCALE: NTS

**NOTES:**

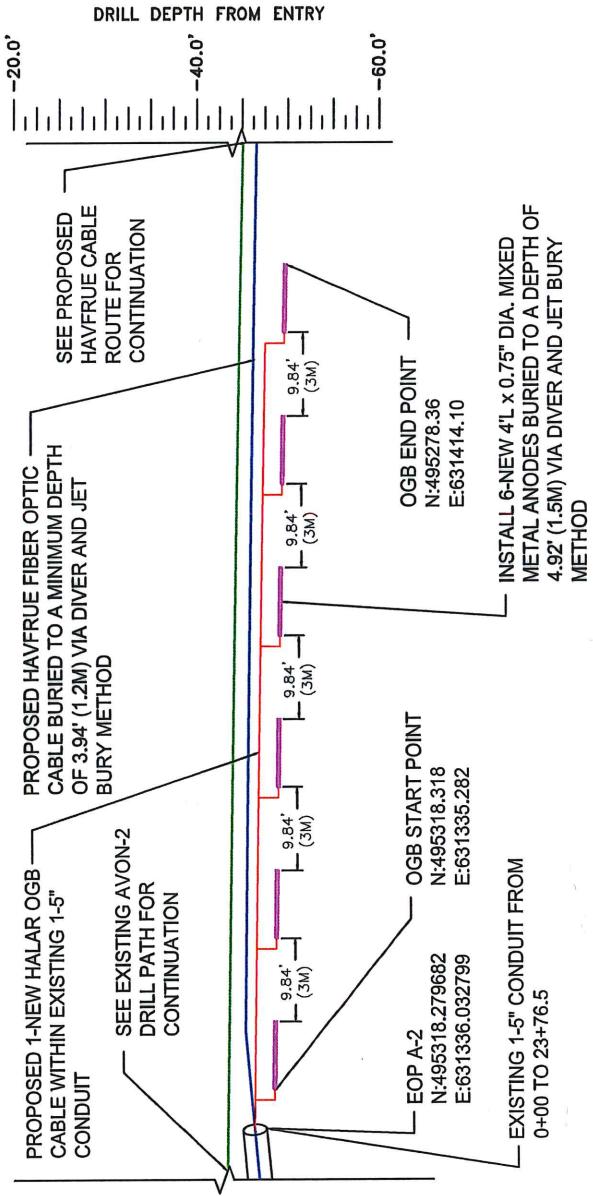
1. LOCATION OF HAVFRUE CONDUIT ROUTE HAS BEEN TAKEN BY PLAN ENTITLED, "J. FLETCHER CREAMER SHARK RIVER INLET, BELMAR, NEW JERSEY" PREPARED BY ENVIRONMENTAL CROSSINGS, INC. DATED MAY 26 2001. REFERENCE MERIDIAN: NJ C.S. NAD 1983.
2. PLAN AND PROFILE LOCATION OF CONDUIT INSTALLED BY DIRECTIONAL DRILL. TAKEN FROM DRAWING ENTITLED "J. FLETCHER CREAMER SHARK RIVER INLET, BELMAR, NEW JERSEY" PREPARED BY ENVIRONMENTAL CROSSINGS, INC. DATED MAY 26, 2001. DRAWING NO. AS BUILT.
3. PROPOSED CABLE ROUTE (THROUGH HOLE PIPE A-2) HAS BEEN TAKEN BY PLAN ENTITLED, "HAVFRUE CABLE ROUTE MAP, AVON-BY-THE-SEA, MONMOUTH COUNTY, NEW JERSEY" PREPARED BY ROBERT CIGOL, DATED 09-19-2018, PROJECT NO. 180760.



HAVFRUE CONDUIT ROUTE & OGB DETAIL			
BEGINNING AT THE INTERSECTION OF LAKESIDE AVENUE AND OCEAN AVENUE, STATION 14+50 TO STATION 25+00, AVON BY THE SEA, MONMOUTH COUNTY, NEW JERSEY			
MILLENNIUM			
COMMUNICATIONS GROUP INC. 11 BEAVER LAKE, SUITE #130, EAST HANOVER, NJ 07936 TEL: (973) 242-3238 FAX: (973) 242-3266			
LOCATION MAP SCALE: NTS	ATLANTIC OCEAN	HAVFURE Manasquan	NOTES: 1. PROPOSED CABLE ROUTE (THROUGH HOLE PIPE A-2) 2. DRAWING NO. AS BUILT 3. PROJECT NO. 19-A-9018 4. SHEET NO. 3 OF 6
Avon-By-The-Sea Manasquan	NEW JERSEY		

15/19

OGB SEA EARTH ARRAY PROFILE VIEW
SCALE: NTS



LOCATION MAP
SCALE: NTS



HAVFRUE CONDUIT ROUTE & OGB DETAIL

BEGINNING AT THE INTERSECTION
OF LAKESIDE AVENUE AND OCEAN AVENUE,
STATION 14+50 TO STATION 26+00,
AVON BY THE SEA, MONMOUTH COUNTY, NEW JERSEY

MILLENNIUM

COMMUNICATIONS GROUP INC.
111 MERRILL LANE, SUITE #13 EAST HANOVER, NJ 07936
TEL: (973) 926-5454 FAX: (973) 926-5666
www.millenniumcommunications.com

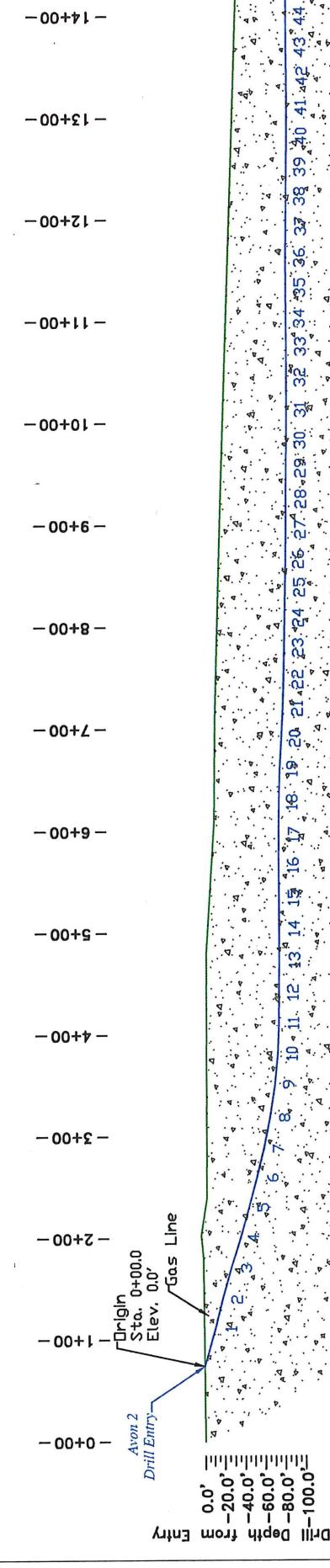
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NOTES:

- LOCATION OF HAVFRUE CONDUIT ROUTE HAS BEEN TAKEN BY PLAN ENTITLED, "J. FLETCHER CREAMER SHARK RIVER INLET, BELMAR, NEW JERSEY" PREPARED BY ENVIRONMENTAL CROSSINGS, INC., DATED MAY 26 2001, REFERENCE MERIDIAN: N.J.P.S. NAD 1983.
- PLAN AND PROFILE LOCATION OF CONDUIT INSTALLED BY DIRECTIONAL DRILL, TAKEN FROM DRAWING ENTITLED "J. FLETCHER CREAMER SHARK RIVER INLET, BELMAR, NEW JERSEY" PREPARED BY ENVIRONMENTAL CROSSINGS, INC., DATED MAY 26, 2001, DRAWING NO. -AS BUILT.
- PROPOSED CABLE ROUTE (THROUGH BORE PIPE A-2) HAS BEEN TAKEN BY PLAN ENTITLED, "HAVFRUE CABLE ROUTE MAP, AVON-BY-THE SEA, MONMOUTH COUNTY, NEW JERSEY" PREPARED BY ROBERT CIGOL, DATED 05-19-2018, PROJECT NO. 1807060.

16/19

EXISTING A-2 BORE PROFILE FROM STA 00+0 TO STA 14+06.4**EXISTING A-2 BORE DEPTHS STA 00+0 TO STA 14+06.4**

STRING STATION	ELEVATION (-L +R)	STATION	ELEVATION (-L +R)	STRING STATION	ELEVATION (-L +R)	STATION	ELEVATION (-L +R)	STRING STATION	ELEVATION (-L +R)	STATION	ELEVATION (-L +R)
ENTRY	+74.0	00	+4.0	8	-67.0	+12.7	16	-77.3	+16.4	24	+84.3
1	+147.1	0.0	+11.4	+4.0	-72.1	+13.6	17	-6+13.0	-77.5	25	+64.9
2	+145.4	-18.9	+5.8	9	-34.5	-52.1	18	-6+35.0	+18.3	26	+64.8
3	+175.6	-27.3	+6.8	10	-38.7	-52.1	19	-6+55.3	-77.8	27	+64.2
4	+205.7	-35.6	+6.8	11	-41.8	-44.7	20	-6+48.0	+4.7	28	+64.0
5	+236.5	-43.9	+6.8	12	-44.8	-65.5	21	-5+2.9	-58.7	29	+64.0
6	+266.1	-52.2	+5.6	13	-47.9	-65.5	22	-5+2.3	-65.5	30	+65.6
7	+295.5	-50.9	+10.7	14	-51.3	-77.4	23	-5+1.3	-83.4	31	+103.6

STRING STATION	ELEVATION (-L +R)	STATION	ELEVATION (-L +R)	STRING STATION	ELEVATION (-L +R)	STATION	ELEVATION (-L +R)	STRING STATION	ELEVATION (-L +R)	STATION	ELEVATION (-L +R)
ENTRY	+74.0	00	+4.0	8	-67.0	+12.7	16	-77.3	+16.4	24	+84.3
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2	+145.4	-18.9	+5.8	9	-34.5	-52.1	18	-6+35.0	+18.3	26	+64.8
3	+175.6	-27.3	+6.8	10	-38.7	-52.1	19	-6+55.3	-77.8	27	+64.2
4	+205.7	-35.6	+6.8	11	-41.8	-44.7	20	-6+48.0	+4.7	28	+64.0
5	+236.5	-43.9	+6.8	12	-44.8	-65.5	21	-5+2.9	-58.7	29	+65.6
6	+266.1	-52.2	+5.6	13	-47.9	-65.5	22	-5+2.3	-65.5	30	+103.6
7	+295.5	-50.9	+10.7	14	-51.3	-77.4	23	-5+1.3	-83.4	31	+102.7

NOTES:

- LOCATION OF HAVFRUE CONDUIT ROUTE HAS BEEN TAKEN BY PLAN ENTITLED, "J. FLETCHER CREAMER SHARK RIVER INLET, BELMAR, NEW JERSEY" PREPARED BY ENVIRONMENTAL CROSSINGS.
- INC. DATED MAY 26 2001. REFERENCE MERIDIAN: N.J.P.C.S. NAD 1983.
- PLAN AND PROFILE LOCATION OF CONDUIT INSTALLED BY DIRECTIONAL DRILL, TAKEN FROM DRAWING ENTITLED "J. FLETCHER CREAMER SHARK RIVER INLET, BELMAR, NEW JERSEY" PREPARED BY ENVIRONMENTAL CROSSINGS, INC., DATED MAY 23, 2001, DRAWING NO. "AS BUILT".
- PROPOSED CABLE ROUTE (THROUGH BORE A-Z) HAS BEEN TAKEN BY PLAN ENTITLED, "HAVFRUE CABLE ROUTE MAP, AVON-BY-THE SEA, MONMOUTH COUNTY, NEW JERSEY" PREPARED BY ROBERT CIGOL, DATED 08-19-2018, PROJECT NO. 1807060.

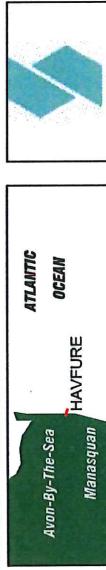
HAVFRUE CONDUIT ROUTE & OGB DETAIL

BEGINNING AT THE INTERSECTION
OF LAKESIDE AVENUE AND OCEAN AVENUE,
STATION 14+50 TO STATION 26+00,
AVON BY THE SEA, MONMOUTH COUNTY, NEW JERSEY

SUBCOM

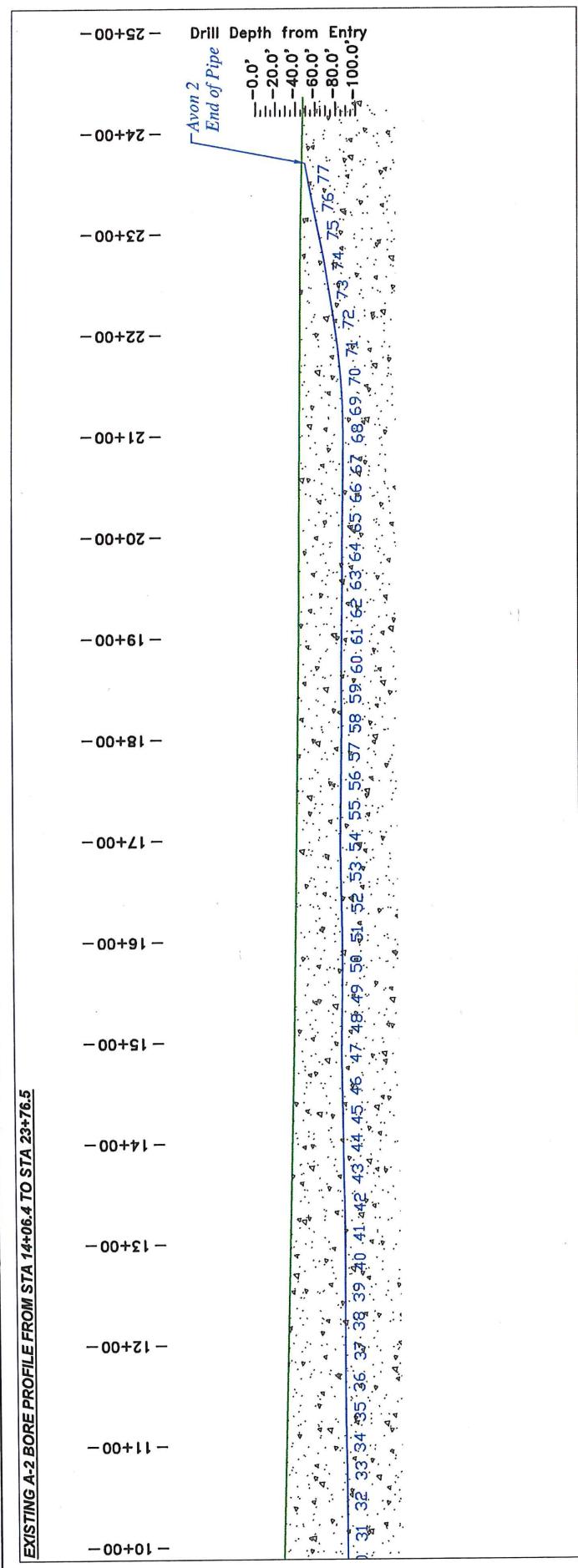
LOCATION MAP

SCALE: NTS



MILLENNIUM
COMMUNICATIONS GROUP INC.
111 EAST 34TH STREET, SUITE #13 EAST HAVERFORD, PA 19041
TEL: (619) 926-5838 FAX: (619) 926-5666
PROJECT NO. 19-A-9018
SHEET NO. 5 OF 6
DATE 01-19-19
DRAWN Z.M.
CHECKED NTS

EXISTING A-2 BOBE PROFILE FROM STA 14+06.4 TO STA 23+76.5



EXISTING A-2 BORE DEPTHS STA 14+06.4 TO STA 23+76.5									
STRING STATION ELEVATION (-L +R)		STRING STATION ELEVATION (-L +R)		STRING STATION ELEVATION (-L +R)		STRING STATION ELEVATION (-L +R)		STRING STATION ELEVATION (-L +R)	
STRING STATION	ELEVATION (-L +R)	STRING STATION	ELEVATION (-L +R)	STRING STATION	ELEVATION (-L +R)	STRING STATION	ELEVATION (-L +R)	STRING STATION	ELEVATION (-L +R)
48	+25.57	48	+268.9	56	+176.45	64	+191.94	-87.2	+395.2
49	+15.47	-84.9	+277.2	57	+174.52	-85.1	+201.95	-87.4	+22+21.9
50	+15.35	-83.3	+283.5	58	+182.60	-85.8	+201.80	-87.9	+406.5
51	+14.32	-83.3	+290.9	59	+184.00	-85.9	+201.78	-88.2	+193.3
52	+14.38	-83.9	+296.9	60	+187.94	-86.0	+201.61	-88.4	+20+80.4
53	+14.42	-84.2	+303.8	61	+190.71	-86.4	+201.54	-87.8	+193.3
54	+14.55	-83.0	+301.1	62	+193.56	-86.8	+201.50	-86.0	+20+80.4
55	+14.57	-83.7	+316.3	63	+196.25	-87.1	+201.38	-83.0	+193.3
47	+268.9	+316.3	+349.4	71	+344.2	+349.4	+349.4	+349.4	+349.4

NOTES:

1. LOCATION OF HAVFRUE CONDUIT ROUTE HAS BEEN TAKEN BY PLAN ENTITLED, "J. FLETCHER CREAMER SHARK RIVER INLET, BELMAR, NEW JERSEY" PREPARED BY ENVIRONMENTAL CROSSINGS, INC., DATED 26/2001, REFERENCE MERIDIAN N.J.P.C., NAD 1883.
 2. PLAN AND PROFILE LOCATION OF CONDUIT INSTALLED BY DIRECTIONAL DRILL, TAKEN FROM DRAWING ENTITLED "J FLETCHER CREAMER SHARK RIVER INLET, BELMAR, NEW JERSEY" PREPARED BY ENVIRONMENTAL CROSSINGS, INC., DATED MAY 26/2001, DRAWING NO - AS BUILT.
 3. PROPOSED CABLE ROUTE (THROUGH BORE PIPE A-2) HAS BEEN TAKEN BY PLAN ENTITLED, "HAFVFRUE CABLE ROUTE MAP, AVON-BY-THE SEA, MONMOUTH COUNTY, NEW JERSEY" PREPARED BY ROBERT CIGOL, DATED 09-19-2016, PROJECT NO. 18070600.

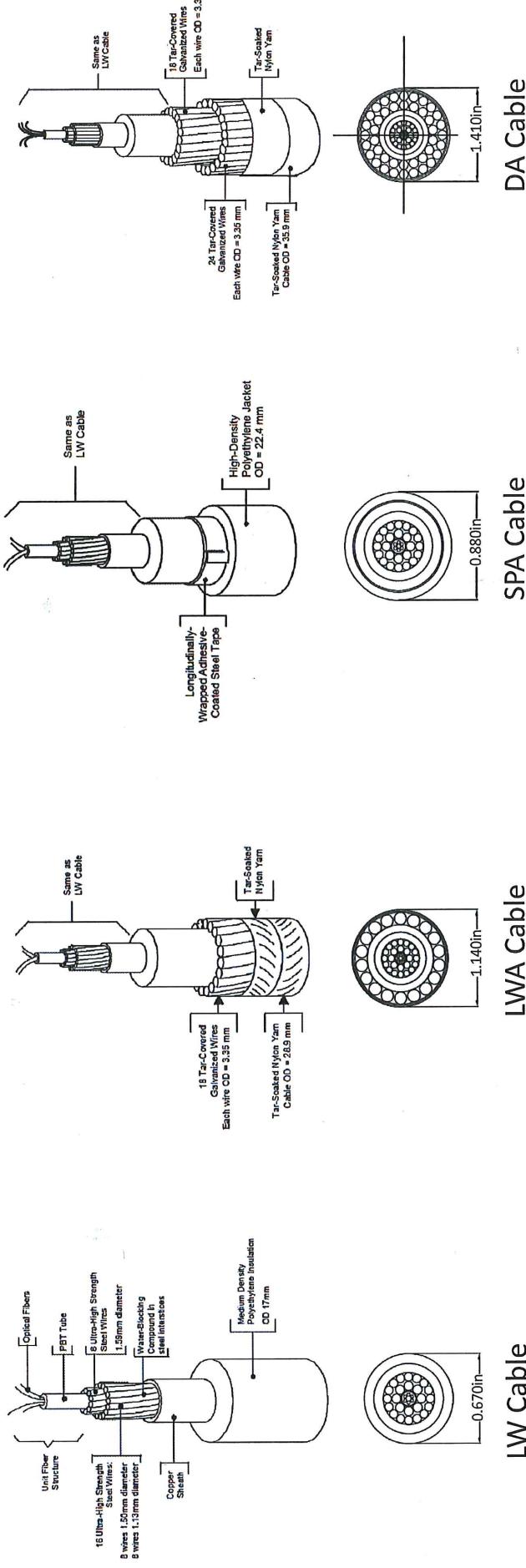


HAVFRUE CONDUIT ROUTE & OGB DETAIL

BEGINNING AT THE INTERSECTION
OF LAKESIDE AVENUE AND OCEAN AVENUE,
STATION 14+50 TO STATION 25+00,
AVON BY THE SEA, MONMOUTH COUNTY, NEW JERSEY

Millennium

COMMUNICATIONS GROUP INC.	
111 BEAVER LANE, SUITE #113, EAST HANOVER, NJ 07936	
TEL. (973) 949-5585 FAX: (973) 949-5665	
19-A-9018	PROJECT No.
DRAWN D.W.	SHEET NO. 6 OF 6
CHECKED Z.M.	DATE 01-18-99
SCALE NTS	STAMP
MILLENIUM COMMUNICATIONS GROUP INC.	



SUBCOM

HAVFRUE CABLE SYSTEM

SL17 Cable Sections