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 replying refer to:
Public Notice Number: **NAN-2015-00861-EYR**
Issue Date: **September 16, 2015**
Expiration Date: **October 16, 2015**

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: Seabras 1 USA, LLC
100 Cummings Center, Suite 435-P
Beverly, MA 01915

ACTIVITY: Installation of one underwater fiber-optic telecommunications cable.

WATERWAY: Atlantic Ocean

LOCATION: Town of Avon-by-the-Sea, Monmouth County, New Jersey, USA to the City of Sao Paulo in the South American nation of Brazil

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.

*****PLEASE USE THE 18-CHARACTER FILE NUMBER ON ALL CORRESPONDENCE WITH THIS OFFICE*****

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 provided will become a part of the public record for this action.

Comments submitted in response to this notice will be fully considered during the public interest review for this permit application. All written comments, including names and addresses, 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 construction work, fully described in the enclosed Work Description, could cause minimum disruption of habitat for various life stages of some EFH-designated species as a result of a minor short-term temporary increase in turbidity during construction. However, the New York District has made the preliminary determination that the site-specific minor adverse effects are not likely to be substantial because it is expected that fish populations would avoid the small area of minor disturbance. Further consultation with NOAA/FS regarding EFH impacts and conservation recommendations is being conducted and will be concluded prior to the final decision on this permit application.

Based upon a review of the latest published version of the National Register of Historic Places, there are no known sites eligible for, or included in, the Register within the permit area. Presently unknown archeological, scientific, prehistorical, or historical data may be lost by work accomplished under the required permit.

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 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) 790-8512 and ask for Mr. Robert Youhas.

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.

for
Christopher S. Mallery, Ph.D.
Acting Chief, Regulatory Branch

Enclosures

*****PLEASE USE THE 18-CHARACTER FILE NUMBER ON ALL CORRESPONDENCE WITH THIS OFFICE*****

WORK DESCRIPTION

The permit applicant, Seabras 1 USA, LLC, has requested Department of the Army authorization to install one underwater fiber-optic telecommunication cable in the Atlantic Ocean, originating from an existing conduit in the Town of Avon-by-Sea, Monmouth County, New Jersey, USA, and extending southward to the City of Sao Paulo in the South American nation of Brazil.

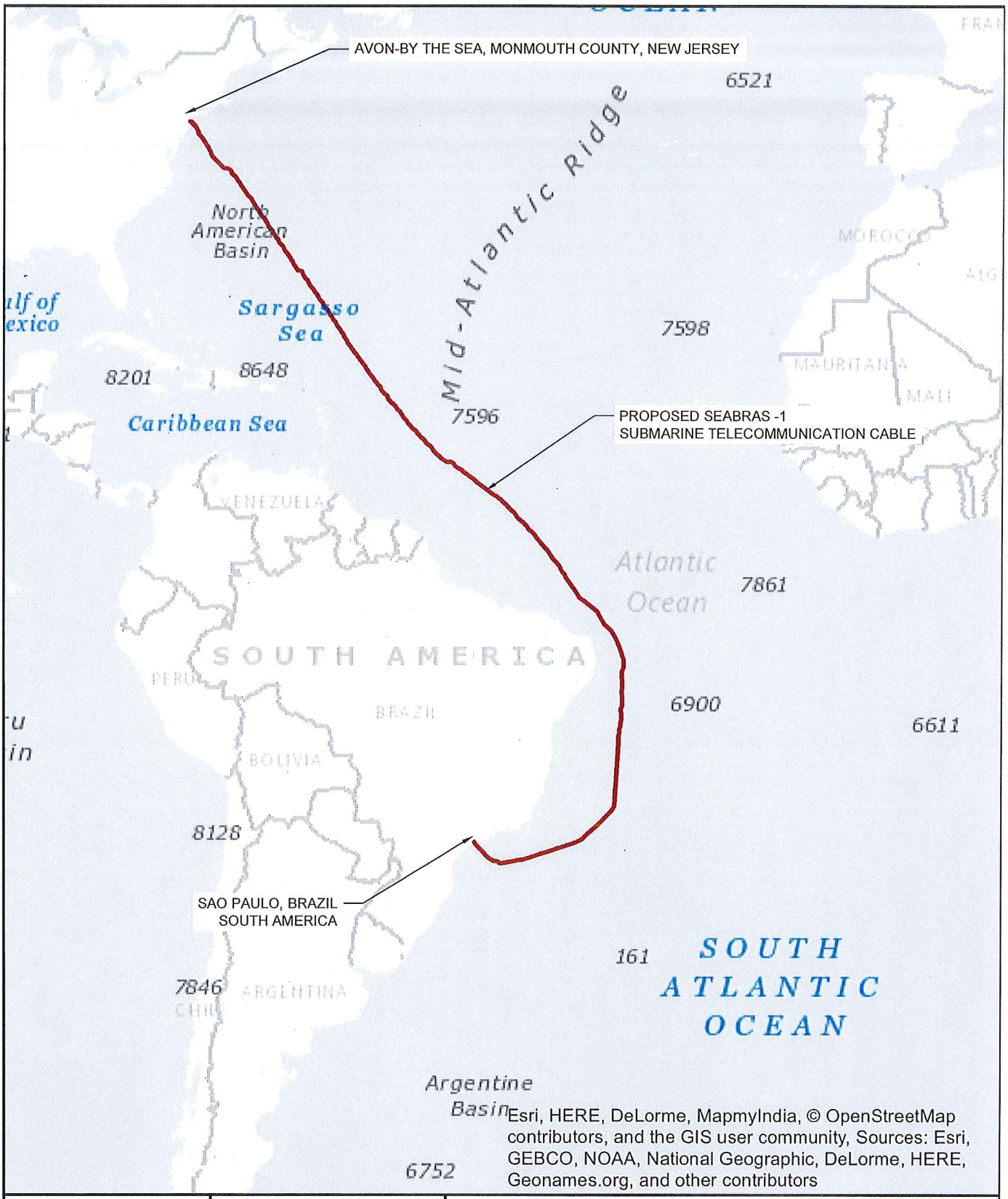
The work would involve installation of approximately 5,400 nautical miles (NM) of 0.67-inch diameter underwater fiber-optic telecommunication cable. The cable will originate in an existing 5-inch diameter steel conduit located in an upland paved parking lot in Avon-by-the Sea and extend through the conduit approximately 2,000-linear feet (0.33-NM) 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 a depth of 4-vertical feet beneath the ocean floor using a combination of Seaplow, Remotely Operated Vehicle (ROV), and diver-operated-jetting burial techniques.

Starting from the seaward end of the conduit, approximately 2,953-linear feet of the cable would be buried via diver-operated jetting. Once a water depth of approximately 50-feet is encountered, the main cable-laying vessel would commence cable burial operations using a Seaplow. As the Seaplow is towed along the seabed, its blade and inclined cutting disk lift a wedge of substrate and drop it back into the trench that is formed, emplacing the cable at the bottom of the sediment wedge. An ROV would be utilized when eight (8) in-service telecommunications cables and twelve (12) out-of-service cables are encountered during the installation. The ROV is equipped with jetting swords that pump jets of seawater to fluidize sediment so the cable can settle into the seabed to the required burial depth beneath or over-top-of the existing cables. This process will result in burial of the cable upon installation. Beyond the 3,281-foot water depth, the cable will be surface-laid on the ocean floor until it exits the US 200 NM Exclusive Economic Zone (EEZ), continuing through international waters to its endpoint in Brazil. During installation of the cable, surveyed as-built route location drawings will be generated, which will be provided to USACE and NOAA by the applicant upon completion of installation activities.

The applicant has stated that they have avoided, minimized, and mitigated for impacts proposed to the maximum extent practicable by not discharging any fill material into Waters of United of States and providing an alternatives analysis for the project. The applicant has stated that alternatives such as microwave transmissions are not feasible for trans-oceanic use, as the microwaves do not bend to follow the earth's curvature; and that bandwidth demands cannot be met by transmission of data via satellites.

The stated purpose of this project is to provide additional circuit capacity to meet increasing demand for global transmission of voice and data. The project will also provide additional routing alternatives in the event that a trans-Atlantic telecommunications cable in another geographical area becomes out-of-service for maintenance, accidental or intentional damage, or as a result of a natural disaster.

NAN-2015-00861-EYR



Seaborn

Alcatel·Lucent

Michael Baker INTERNATIONAL

SEABORN NETWORKS

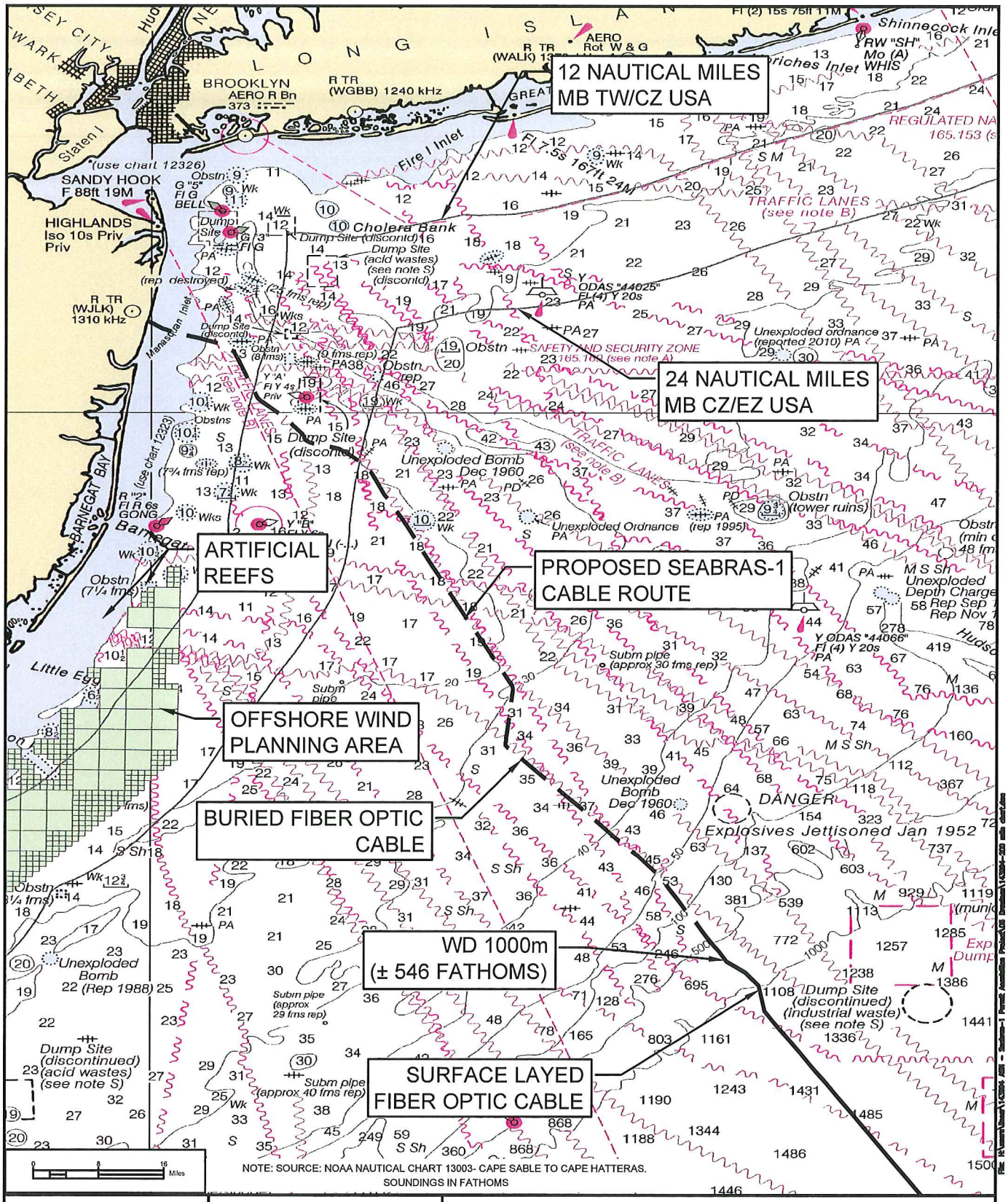
AVON-BY-THE-SEA, MONMOUTH COUNTY, NEW JERSEY

SEABRAS-1 CABLE PROJECT

VICINITY MAP

DRAWING DATE:	REVISION:	SCALE:	SHEET No.
AUGUST 11, 2015	0	N.T.S.	VIC-2

NAN-2015-00861-EYR



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SEABORN NETWORKS

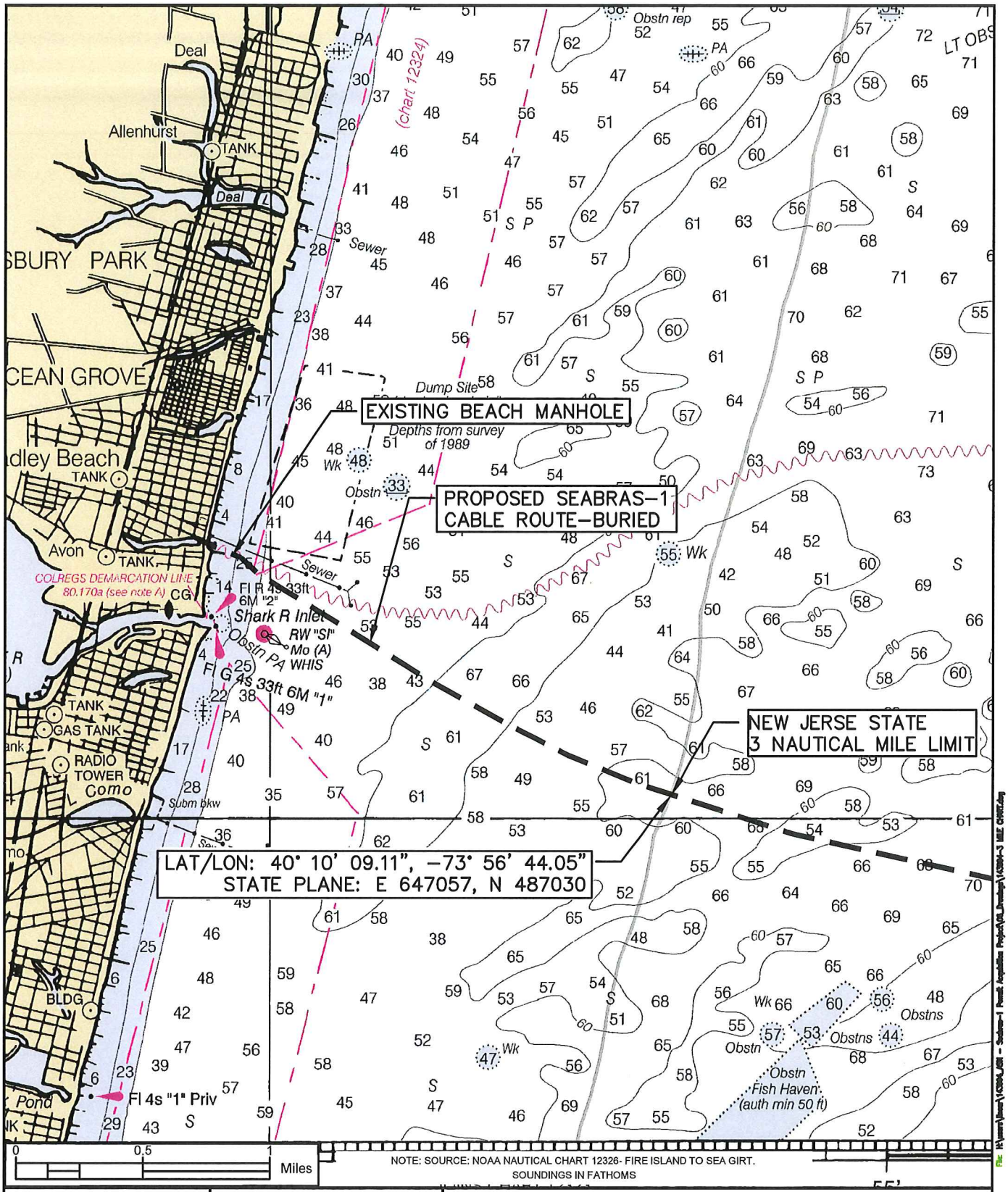
AVON-BY-THE-SEA, MONMOUTH COUNTY, NEW JERSEY

SEABRAS-1 CABLE PROJECT

ROUTE MAP TO 200 NAUTICAL MILES

DRAWING DATE:	REVISION:	SCALE:	SHEET No.
MAY 5, 2015	0	AS SHOWN	SHEET 1 OF 2

NAN-2015-00861-EYR



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AVON-BY-THE-SEA, MONMOUTH COUNTY, NEW JERSEY

SEABRAS-1 CABLE PROJECT

ROUTE MAP TO 3 NAUTICAL MILES

DRAWING DATE:	REVISION:	SCALE:	SHEET No.
MAY 5, 2015	0	AS SHOWN	SHEET 1 OF 1

NAN-2015-00861-EYR

NEW JERSEY ONE CALL SYSTEM

CALL "NEW JERSEY ONE CALL" AT 1-800-272-1000 OR 811 AT LEAST 3 BUSINESS DAYS PRIOR TO THE START OF WORK. THE EXCAVATOR MUST NOTIFY ALL PUBLIC UTILITY COMPANIES WITH UNDER GROUND FACILITIES IN THE AREA OF PROPOSED EXCAVATION AND HAVE THOSE FACILITIES LOCATED BY THE UTILITY COMPANIES PRIOR TO COMMENCING EXCAVATION. THE EXCAVATOR IS RESPONSIBLE FOR COMPLIANCE WITH REQUIREMENTS OF LOCAL CODES AND REGULATIONS.

SOURCE: TYCOM OSP PROJECT NORTH ROUTE – AS-BUILT APRIL, 2001. AERIAL PHOTOGRAPHY USED IS FROM GOOGLE EARTH.

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0 50 100 Feet
SCALE

NO.	REVISION	DATE	BY

SEABORN NETWORKS
AVON-BY-THE-SEA, MONMOUTH COUNTY, NEW JERSEY

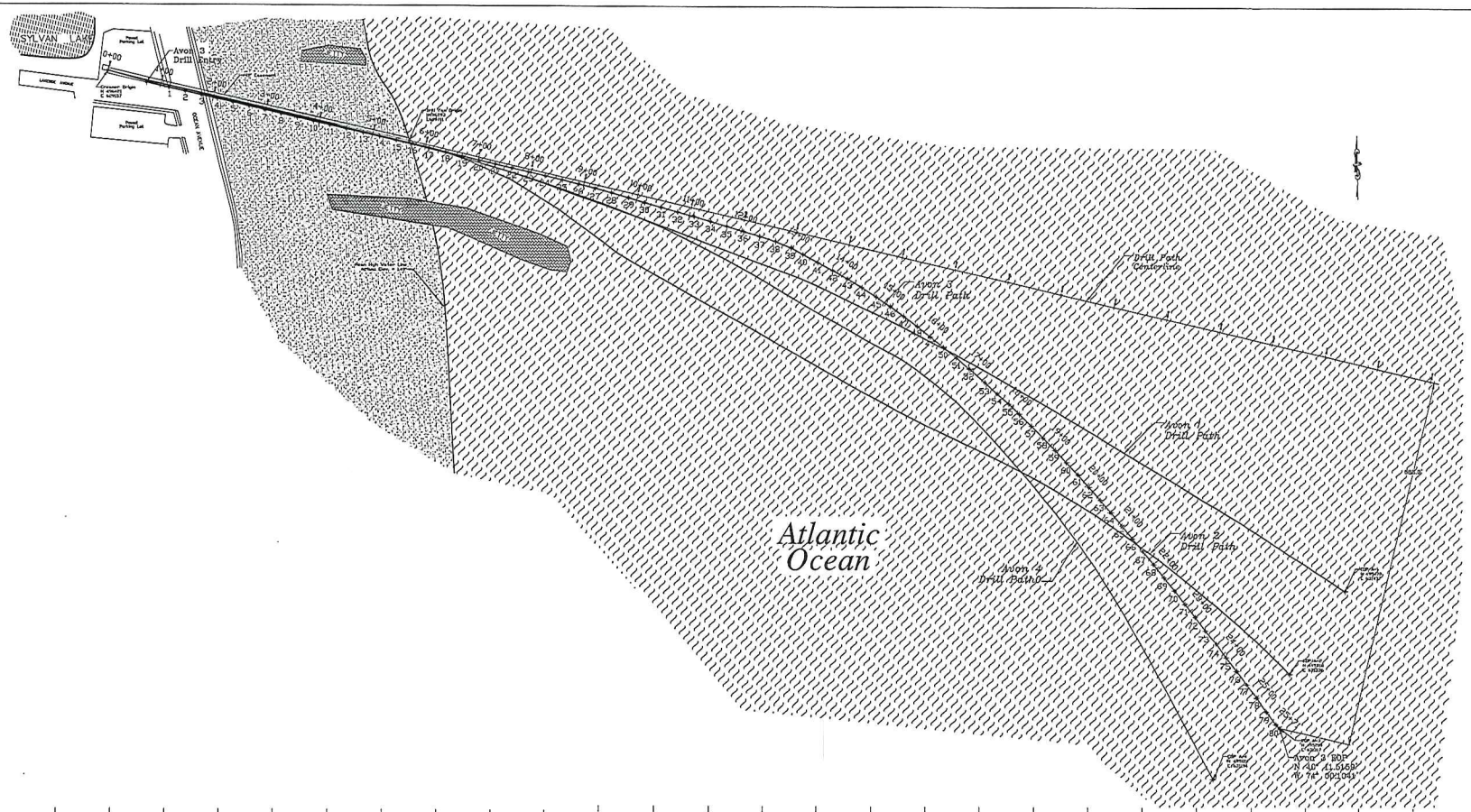
SEABRAS-1 CABLE PROJECT
AERIAL VIEW OF PROPOSED LANDING AREA

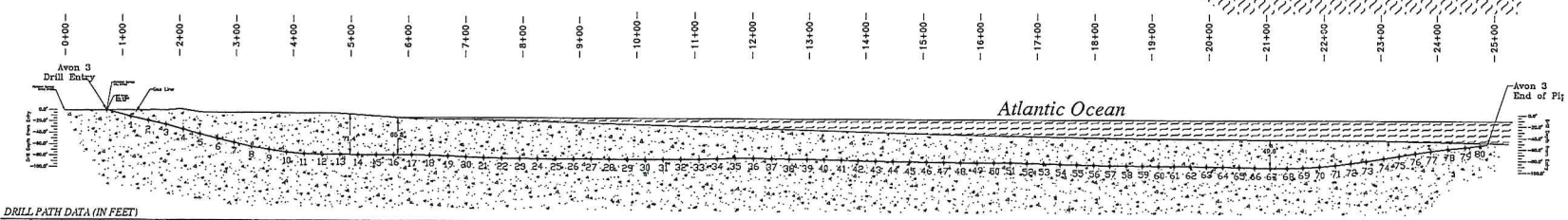
Michael Baker INTERNATIONAL

DRAWN	DATE	CHECKED	DATE	APPROVED	DATE
RWM	4/8/2015	WLS	4/8/2015	MTV	4/8/2015

A.F.E.	DRAWING NUMBER	REVISION
143994	AERIAL - 1	0

NAN-2015-00861-EYR





DRILL PATH DATA (IN FEET)

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ENTRY	0+00	0	+00	0	2+00	-0.4	+0.0	16	5+25	-7.3	+1.0	24	8+15	-10.8	+1.8	32	10+74	-13.7	+3.5	40	13+70	-20.1	+2.0	48	16+55	-26.3	+17.8	56	19+37	-29.8	+31.4	64	22+53	-30.4	+39.8	72	25+47	-30.4	+39.4	80	28+29	-30.4	+39.4
1	0+00	0	+00	1	2+00	-0.4	+0.0	17	5+26	-7.3	+1.0	25	8+16	-10.8	+1.8	33	10+75	-13.7	+3.5	41	13+68	-20.0	+2.0	49	16+56	-26.3	+17.8	57	19+38	-29.8	+31.4	65	22+54	-30.4	+39.8	73	25+48	-30.4	+39.4	81	28+30	-30.4	+39.4
2	0+00	0	+00	10	2+00	-7.0	+4.0	18	5+27	-7.3	+1.0	26	8+17	-10.8	+1.8	34	10+76	-13.7	+3.5	42	13+67	-20.0	+2.0	50	16+57	-26.3	+17.8	58	19+39	-29.8	+31.4	66	22+55	-30.4	+39.8	74	25+49	-30.4	+39.4	82	28+31	-30.4	+39.4
3	0+00	0	+00	11	2+00	-7.0	+4.0	19	5+28	-7.3	+1.0	27	8+18	-10.8	+1.8	35	10+77	-13.7	+3.5	43	13+66	-20.0	+2.0	51	16+58	-26.3	+17.8	59	19+40	-29.8	+31.4	67	22+56	-30.4	+39.8	75	25+50	-30.4	+39.4	83	28+32	-30.4	+39.4
4	0+00	0	+00	12	2+00	-7.0	+4.0	20	5+29	-7.3	+1.0	28	8+19	-10.8	+1.8	36	10+78	-13.7	+3.5	44	13+65	-20.0	+2.0	52	16+59	-26.3	+17.8	60	19+41	-29.8	+31.4	68	22+57	-30.4	+39.8	76	25+51	-30.4	+39.4	84	28+33	-30.4	+39.4
5	0+00	0	+00	13	2+00	-7.0	+4.0	21	5+30	-7.3	+1.0	29	8+20	-10.8	+1.8	37	10+79	-13.7	+3.5	45	13+64	-20.0	+2.0	53	16+60	-26.3	+17.8	61	19+42	-29.8	+31.4	69	22+58	-30.4	+39.8	77	25+52	-30.4	+39.4	85	28+34	-30.4	+39.4
6	0+00	0	+00	14	2+00	-7.0	+4.0	22	5+31	-7.3	+1.0	30	8+21	-10.8	+1.8	38	10+80	-13.7	+3.5	46	13+63	-20.0	+2.0	54	16+61	-26.3	+17.8	62	19+43	-29.8	+31.4	70	22+59	-30.4	+39.8	78	25+53	-30.4	+39.4	86	28+35	-30.4	+39.4
7	0+00	0	+00	15	2+00	-7.0	+4.0	23	5+32	-7.3	+1.0	31	8+22	-10.8	+1.8	39	10+81	-13.7	+3.5	47	13+62	-20.0	+2.0	55	16+62	-26.3	+17.8	63	19+44	-29.8	+31.4	71	22+60	-30.4	+39.8	79	25+54	-30.4	+39.4	87			

REFERENCE: BORE PIPES 1 THRU 4 WERE INSTALLED BY HORIZONAL DIRECTIONAL DRILLING METHODS BY ENVIRONMENTAL CROSSINGS INC. (ECI) FOR J. FLETCHER CREAMER. ECI PREPARED THIS AS-BUILT PLAN AND PROFILE DRAWING.

0 100 200 Feet
SCALE

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NO.	REVISION	DATE	BY

SEABORN NETWORKS
AVON-BY-THE-SEA, MONMOUTH COUNTY, NEW JERSEY

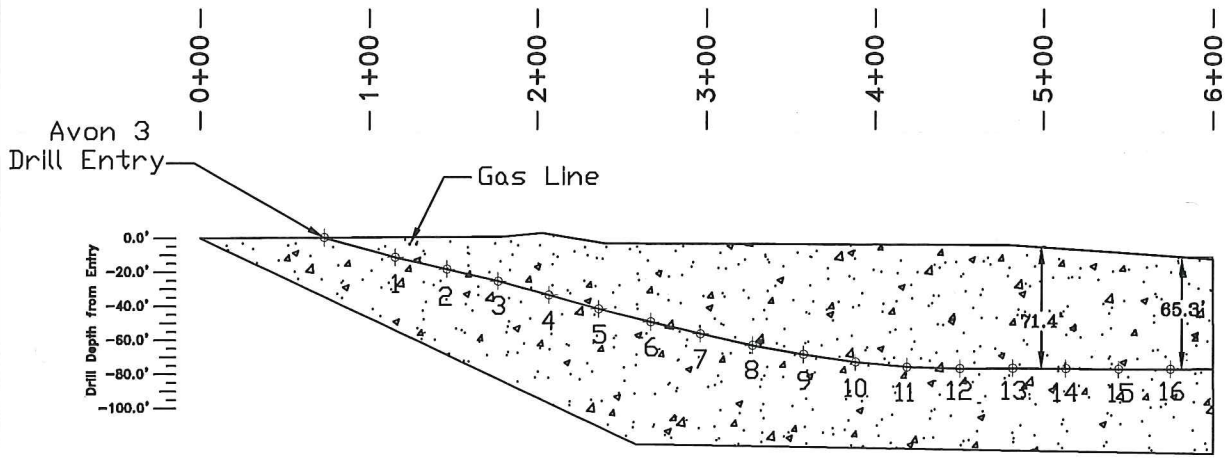
SEABRAS-1 CABLE PROJECT
EXISTING BORE PIPE A-3
AS-BUILT PLAN AND PROFILE

Michael Baker INTERNATIONAL

DRAWN	DATE	CHECKED	DATE	APPROVED	DATE
RWM	03/18/2015	WLS	03/18/2015	MTV	03/18/2015

A.F.E.	DRAWING NUMBER	REVISION
143994	BP-2	0

NAN-2015-00861-EYR



DRILL PATH DATA (IN FEET)

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3	1+77.4	-25.5	+4.0	11	4+19.7	-76.0	+4.2	19	6+70.3	-78.7	+4.8
4	2+07.7	-33.8	+4.0	12	4+51.1	-76.9	+4.2	20	7+01.7	-80.0	+4.8
5	2+37.1	-42.0	+4.1	13	4+82.5	-76.7	+4.2	21	7+32.8	-81.4	+4.8
6	2+67.9	-49.5	+4.2	14	5+13.8	-76.9	+4.2	22	7+64.1	-82.2	+4.8
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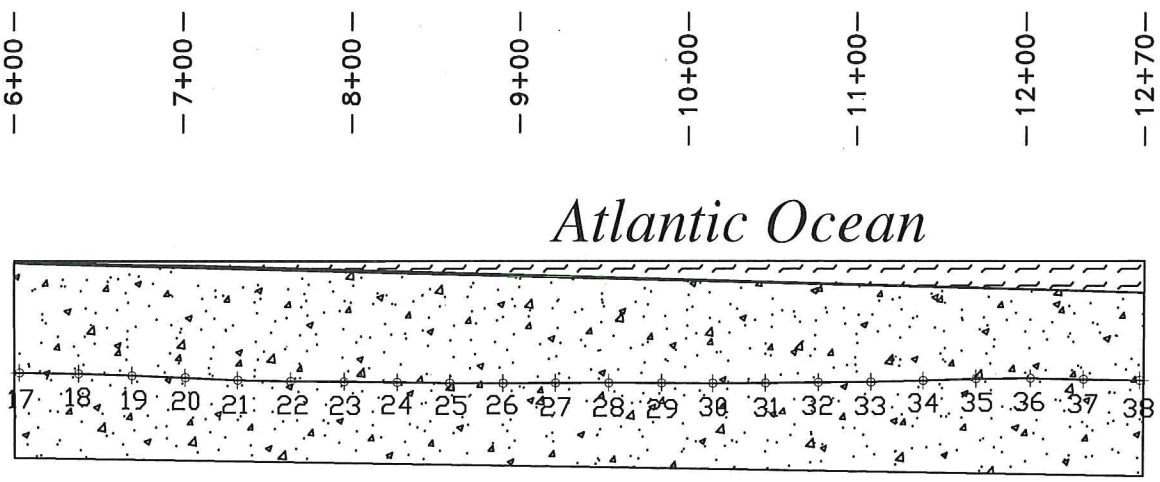

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26	8+90.6	-83.3	+5.6	34	11+40.2	-81.7	+16.7	42	13+88.0	-83.7	+52.6
27	9+21.8	-83.1	+6.1	35	11+71.4	-80.6	+18.7	43	14+18.7	-84.4	+61.3
28	9+53.2	-83.0	+7.2	36	12+03.2	-80.3	+21.0	44	14+48.6	-84.9	+70.7
29	9+84.5	-83.1	+8.9	37	12+34.7	-80.9	+22.9	45	14+78.2	-85.3	+81.1
30	10+15.1	-83.3	+10.5	38	12+65.7	-81.4	+25.0	46	15+07.1	-85.5	+92.5
31	10+46.2	-83.1	+12.1	39	12+96.9	-81.7	+29.7	47	15+37.0	-85.8	+104.4

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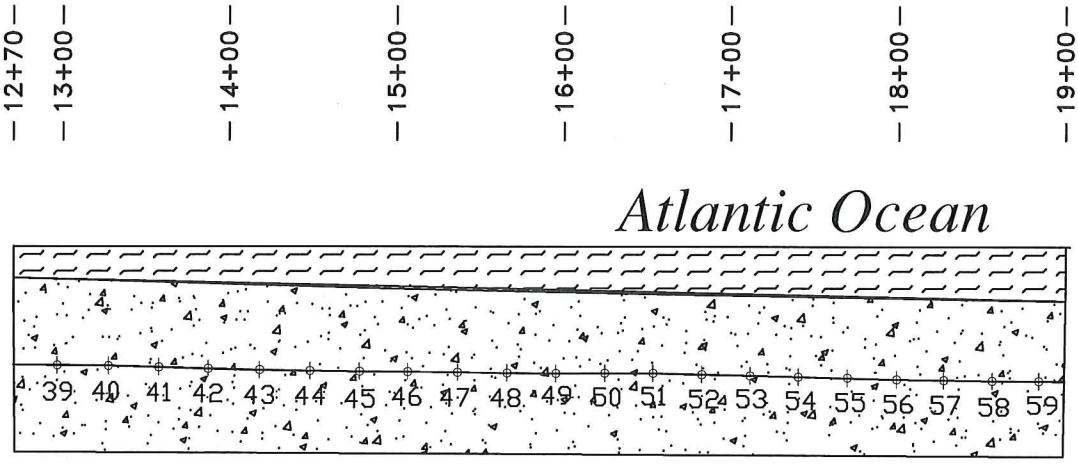
SEABORN NETWORKS
AVON-BY-THE-SEA, MONMOUTH COUNTY, NEW JERSEY
EXISTING BORE PIPE CROSS SECTIONS

DRAWING DATE:	REVISION:	SCALE:	SHEET No.
AUGUST 11, 2015	0	1" = 200'	SHEET 1 OF 2

File: H:\35215\Bmar\14384_JSN - Seaborne-1 Permit Acquisition Project\06_Drawings\14384- BORE PIPE X SECT.dwg
Plot Date: 8/11/2015 1:20 PM

NAN-2015-00861-EYR



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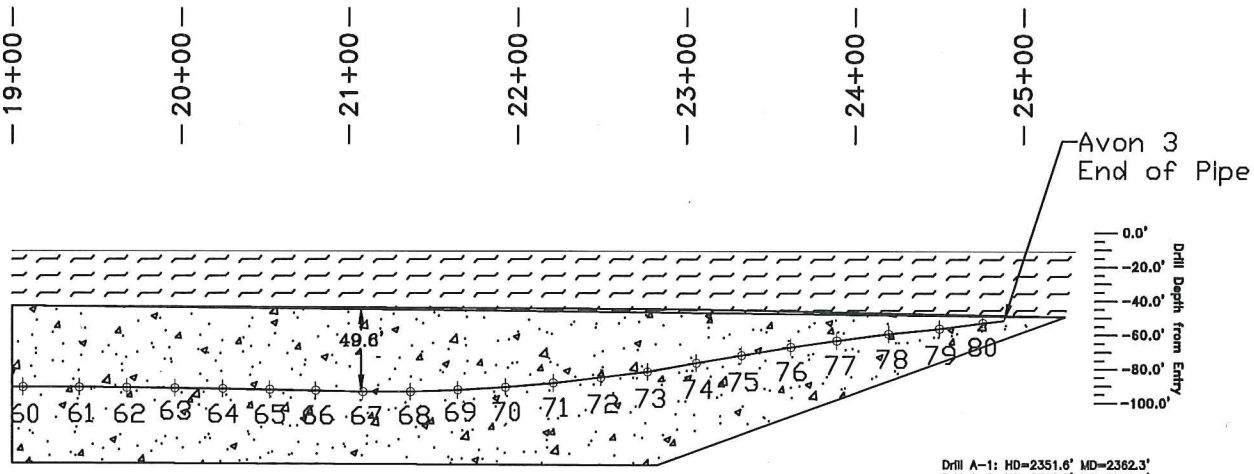
49	15+95.6	−86.5	+130.0	57	18+27.7	−90.3	+246.9	65	20+53.5	−92.6	+387.5
50	16+25.2	−86.3	+143.4	58	18+56.7	−90.7	+263.3	66	20+80.9	−93.1	+406.3
51	16+54.1	−86.3	+156.9	59	18+84.5	−90.9	+280.0	67	21+08.7	−93.8	+425.2
52	16+83.4	−87.0	+171.0	60	19+12.8	−91.1	+297.2	68	21+37.1	−93.8	+444.2
53	17+12.3	−87.7	+189.0	61	19+40.1	−91.1	+314.7	69	21+65.1	−92.8	+463.4
54	17+40.9	−88.4	+204.1	62	19+68.2	−91.3	+332.5	70	21+93.4	−91.1	+482.6
55	17+70.1	−89.1	+217.6	63	19+96.7	−91.7	+350.8	71	22+21.7	−88.7	+502.1



Drill A-1: HD=2351.6' MD=2362.3'
Drill A-2: HD=2302.5' MD=2309.7'
Drill A-3: HD=2415.2' MD=2426.9'
Drill A-4: HD=2233.3' MD=2248.3'

STRING	STATION	ELEVATION	(−L +R)	STRING	STATION	ELEVATION	(−L +R)
72	22+49.7	−85.4	+521.4	80	24+76.9	−53.3	+678.1
73	22+77.8	−82.1	+540.9	81	24+89.2	−51.8	+683.0
74	23+06.0	−77.0	+560.5	82			
75	23+34.5	−72.5	+580.2	83			
76	23+63.0	−67.7	+599.9	84			
77	23+91.6	−63.8	+619.7	85			
78	24+20.1	−59.8	+639.6	86			
79	24+48.7	−56.7	+659.7	87			

868 ROBINWOOD CT.
TRAVERSE CITY, MI 49686
PH: (231) 929-1242
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DATE:	JOB No.:	DRAWN BY:
5-28-01	00-0063	GJH

CLIENT: J. Fletcher Creamer
PROFILE DIRECTION: W to E
LOCATION: Avon, New Jersey
DRAWING No.: As-Built A

File: H:\USERS\linear\143994_ASN - Seabrae-1 Permit Acquisition Project\06_Drawings\143994- BORE PIPE X SECT.dwg

Plot Date: 8/11/2015 1:20 PM

Seaborn

Alcatel·Lucent

Michael Baker INTERNATIONAL

SEABORN NETWORKS
AVON-BY-THE-SEA, MONMOUTH COUNTY, NEW JERSEY
EXISTING BORE PIPE CROSS SECTIONS

DRAWING DATE:	REVISION:	SCALE:	SHEET No.
AUGUST 11, 2015	0	1" = 200'	SHEET 2 OF 2