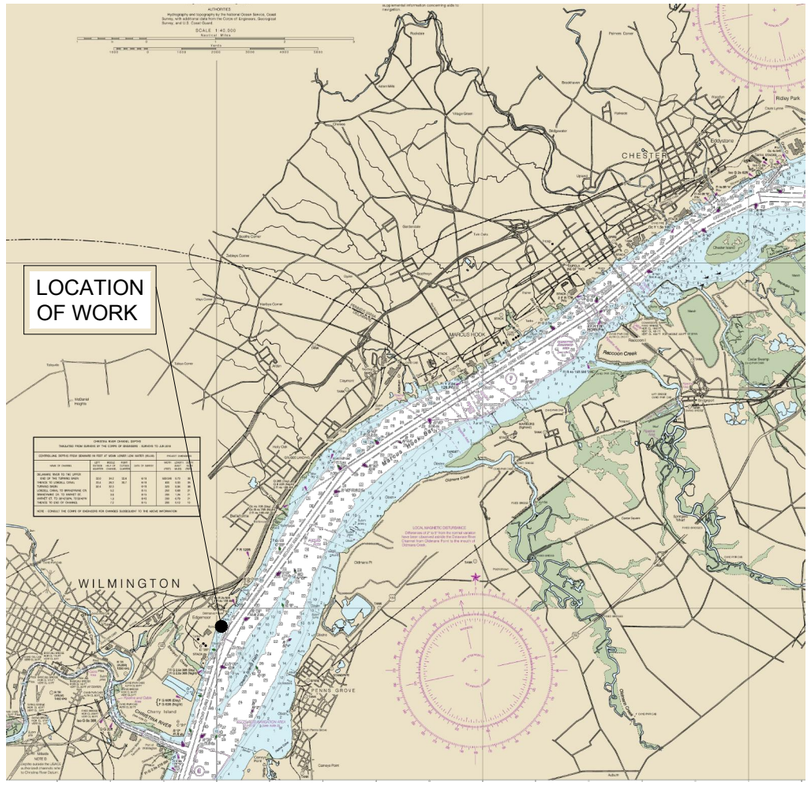
PORT OF WILMINGTON EDGEMOOR EXPANSION PERMIT PLANS

BRANDYWINE HUNDRED, NEW CASTLE COUNTY, DELAWARE



LOCATION MAP

SCALE: 1" = 8,000'

8,000' 0 8,000' 16,000'

SCALE IN FEET 1" = 8,000'

PURPOSE:

THE PURPOSE OF THESE PLANS IS TO PROVIDE PLANS AND DETAILS FOR THE PERMITTING OF A NEW HARBOR AND DOCK STRUCTURE AT THE PORT OF WILMINGTON EDGEMOOR FACILITY IN NEW CASTLE COUNTY, DELAWARE. THESE DRAWINGS ARE FOR PERMITTING PURPOSES ONLY ARE NOT FOR BIDDING.

SITE DATA:

1.	TAX PARCEL NO.:	06-153.00-006
2.	SITE ADDRESS:	4600 HAY ROAD WILMINGTON, DE 19809
3.	OWNER:	DIAMOND STATE PORT CORPORATION 1 HAUSEL ROAD WILMINGTON, DE 19801
4.	SOURCE OF TITLE:	IN20170227-0010347
5.	ZONING:	HI - HEAVY INDUSTRIAL
6.	PARCEL SITE ACREAGE:	113.29 ± AC
7.	DATUM:	HORIZONTAL: NAD 83 DE STATE PLANE GRID VERTICAL: NAVD 1988
8.	SURVEY:	THE TOPOGRAPHIC SURVEY DEPICTED ON THIS PLAN WAS TAKEN FROM AN AERIAL SURVEY PREPARED BY COOPER AERIAL SURVEYS CO. DATED DECEMBER 23, 2018. BATHYMETRIC SOUNDING PERFORMED BY GAHAGAN & BRYANT ASSOCIATES IN JULY, 2018 WITH SINGLE BEAM AND MULTIBEAM SURVEY IN GENERAL ACCORDANCE WITH EM 1110-Z-1003. THE GROUND CONTROL POINTS UTILIZED BY COOPER AERIAL SURVEYS CO. FOR THE AERIAL SURVEY WERE SET IN THE FIELD BY VANDEMARK & LYNCH, INC. DATED DECEMBER 12-14, 2018.

INDEX OF SHEETS:

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SHEET 10	WHARF STRUCTURAL DETAILS
SHEET 11	SEDIMENT FAN DETAILS
SHEET 12	ANALYTICAL SAMPLE LOCATION SKETCH
SHEET 13	GEOTECHNICAL BORINGS LOCATION SKETCH
SHEET 14	ESSENTIAL FISH HABITAT
SHEET 15	BATHYMETRIC SURVEY
SHEET 16	MAGNETOMETER CONTOUR MAPPING
SHEET 17	SITE SCAN SONAR

QUANTITY NOTES:

1.	AREA OF DREDGE:	86.9 ACRES
2.	AREA OF DREDGE TO 48':	64.5 ACRES
3.	AREA OF SUBAQUEOUS FILL:	5.5 ACRES
4.	VOLUME OF DREDGE:	3,325,000 CUBIC YARDS
5.	VOLUME OF SUBAQUEOUS FILL:	20,107 CUBIC YARDS
6.	VOLUME OF FLOODPLAIN FILL:	145,893 CUBIC YARDS
7.	AREA OF WETLAND IMPACT:	0.0 ACRES
8.	AREA OF SHALLOW WATER IMPACT:	35.3 ACRES
9.	APPROXIMATE NUMBER OF PILES:	4,500 (PLUMB AND BATTER)
10.	VOLUME OF PILE FILL:	2,160 CUBIC YARDS
11.	"SHADED" FOOTPRINT AREA COVERED BY WHARF / FENDERS:	32,900 SQUARE YARDS

DUFFIELD ASSOCIATES
Soil, Water & the Environment
5400 LIMESTONE ROAD
WILMINGTON, DE 19808-1232
TEL. 302.239.6634
FAX 302.239.8485
OFFICES IN DELAWARE, MARYLAND
PENNSYLVANIA AND NEW JERSEY
E-MAIL: DUFFIELD@DUFFNET.COM

DESIGNED BY: MRB
DRAWN BY: AR
CHECKED BY: BJD
FILE: PRMT-Index-11139LH.dwg

PERMIT PLAN
COVER SHEET
PORT OF WILMINGTON EDGEMOOR EXPANSION
BRANDYWINE HUNDRED ~ NEW CASTLE COUNTY ~ DELAWARE

DATE: OCTOBER 2019

SCALE: 1" = 8,000'

PROJECT NO. 11139.LH

SHEET: 1 OF 17

N/F
LUDLOW INDUSTRIAL PARK PARTNER
TP# 26-039.00-002

N/F
CALPINE MID-ATLANTIC GENERATION, LLC
TP# 26-039.00-003

N/F
CALPINE MID-ATLANTIC GENERATION, LLC
TP# 06-156.00-004

N/F
AHMED E. AMER, LLC
TP# 06-156.00-003

N/F
CALPINE MID-ATLANTIC GENERATION, LLC
TP# 26-039.00-001

N/F
STATE OF DELAWARE
TP# 06-147.00-017

ZONE AE (EL. 9)

PROPOSED LIMITS OF DREDGING

100YR/VE

HTL

MHW

MLW

DEEPW

ZONE VE (EL. 12)

ZONE VE (EL. 13)

DELAWARE RIVER MAIN CHANNEL

500' 0 500' 1000'

DRAWING SCALE 1" = 500'

LEGEND

PROPERTY LINE		
ADJOINER LINE		
100YR	100 YEAR FLOODPLAIN	(BASE FLOOD ELEVATIONS, BFE DETERMINED)
100YR/VE	100 YEAR FLOODPLAIN	(COASTAL FLOOD ZONE WITH VELOCITY HAZARD, BFE DETERMINED)
ZONE AE (EL.9) / ZONE VE (EL. 12)	FLOODPLAIN DIVIDE	
HTL	HIGH TIDE LINE	EL. = 4.56' (N.A.V.D. 88)
MHW	MEAN HIGH WATER LINE	EL. = 2.51' (N.A.V.D. 88)
MLW	MEAN LOW WATER LINE	EL. = -2.79' (N.A.V.D. 88)
DEEPW	DEEP WATER LINE	EL. = -9.35' (N.A.V.D. 88)
	CHANNEL LIMITS	

DUFFIELD ASSOCIATES
Soil, Water & the Environment
5400 LIMESTONE ROAD
WILMINGTON, DE 19808-1232
TEL. 302.239.6634
FAX 302.239.8485
OFFICES IN DELAWARE, MARYLAND
PENNSYLVANIA AND NEW JERSEY
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PERMIT PLAN
JURISDICTIONAL BOUNDARY PLAN
PORT OF WILMINGTON EDGEMOOR EXPANSION

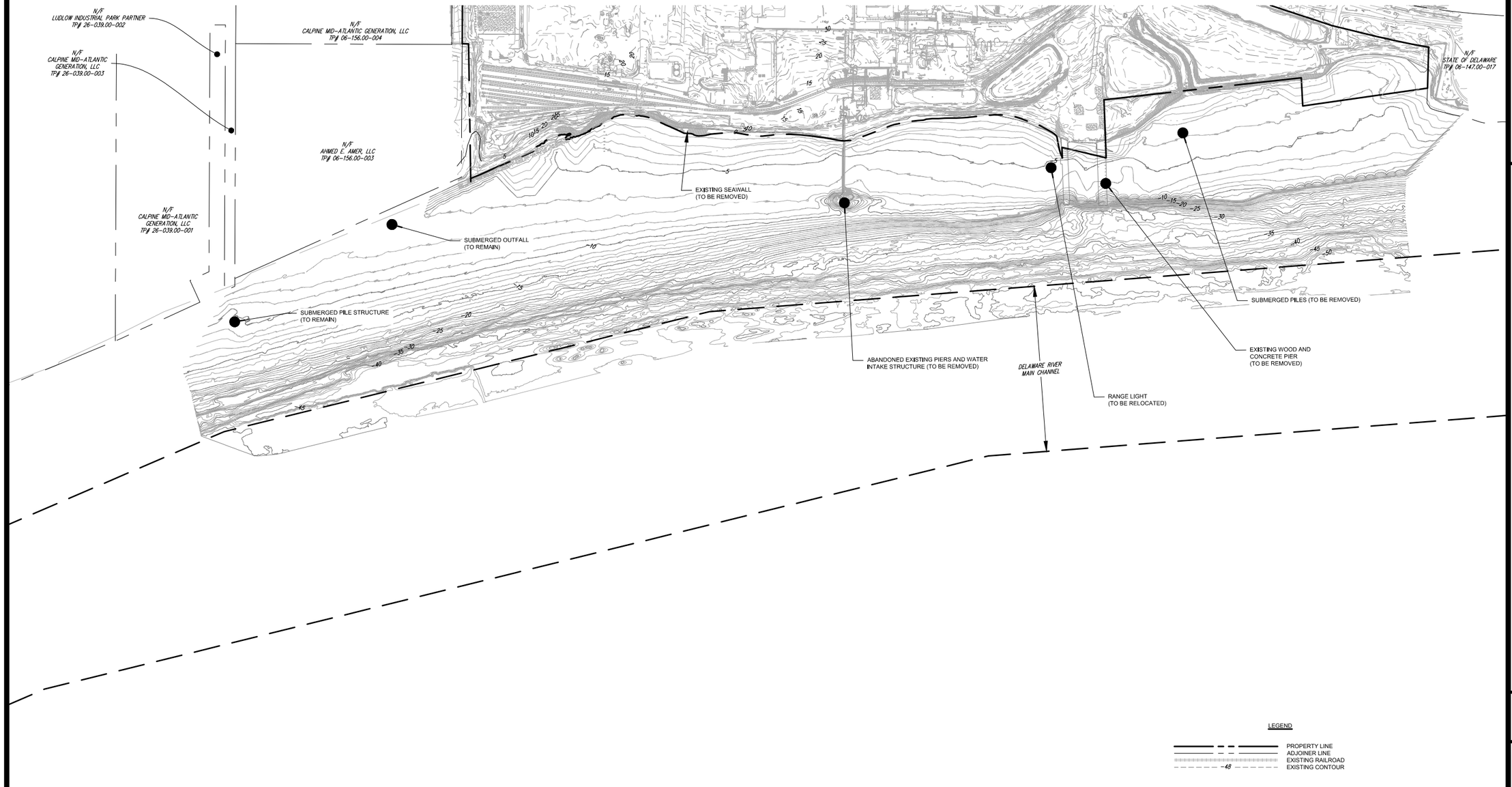
BRANDYWINE HUNDRED ~ NEW CASTLE COUNTY ~ DELAWARE

DATE: OCTOBER 2019

SCALE: 1" = 500'

PROJECT NO. 11139.LH

SHEET: 2 OF 17



LEGEND

PROPERTY LINE
ADJOINER LINE
EXISTING RAILROAD
EXISTING CONTOUR

500' 0 500' 1000'

DRAWING SCALE 1" = 500'

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Soil, Water & the Environment
5400 LIMESTONE ROAD
WILMINGTON, DE 19808-1232
TEL 302.239.6634
FAX 302.239.8485
OFFICES IN DELAWARE, MARYLAND
PENNSYLVANIA AND NEW JERSEY
E-MAIL: DUFFIELD@DUFFNET.COM

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PERMIT PLAN
EXISTING CONDITIONS PLAN
PORT OF WILMINGTON EDGEMOOR EXPANSION

BRANDYWINE HUNDRED ~ NEW CASTLE COUNTY ~ DELAWARE

DATE: OCTOBER 2019

SCALE: 1" = 500'

PROJECT NO. 11139.LH

SHEET: 3 OF 17

N/F
LUDLOW INDUSTRIAL PARK PARTNER
TP# 26-039.00-002

N/F
CALPINE MID-ATLANTIC GENERATION, LLC
TP# 26-039.00-003

N/F
CALPINE MID-ATLANTIC GENERATION, LLC
TP# 06-156.00-004

N/F
AHMED E. AMER, LLC
TP# 06-156.00-003

N/F
CALPINE MID-ATLANTIC GENERATION, LLC
TP# 26-039.00-001

N/F
STATE OF DELAWARE
TP# 06-147.00-017

DELAWARE RIVER
MAIN CHANNEL

LEGEND

PROPERTY LINE
ADJOINER LINE
EXISTING RAILROAD
EXISTING CONTOUR

500' 0 500' 1000'
DRAWING SCALE 1" = 500'

DUFFIELD ASSOCIATES
Soil, Water & the Environment
5400 LIMESTONE ROAD
WILMINGTON, DE 19808-1232
TEL 302.239.6634
FAX 302.239.8485
OFFICES IN DELAWARE, MARYLAND
PENNSYLVANIA AND NEW JERSEY
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PERMIT PLAN
EXISTING TOPOGRAPHY
PORT OF WILMINGTON EDGEMOOR EXPANSION
BRANDYWINE HUNDRED ~ NEW CASTLE COUNTY ~ DELAWARE

DATE: OCTOBER 2019
SCALE: 1" = 500'
PROJECT NO. 11139.LH
SHEET: 4 OF 17

500' 0 500' 1000'

DRAWING SCALE 1" = 500'

LEGEND

- PROPERTY LINE
- ADJOINER LINE
- CHANNEL LIMITS
- LIMITS OF DREDGING
- PROPOSED ASPHALT
- PROPOSED WHARF

DUFFIELD ASSOCIATES
Soil, Water & the Environment
5400 LIMESTONE ROAD
WILMINGTON, DE 19808-1232
TEL. 302.239.6634
FAX 302.239.8485
OFFICES IN DELAWARE, MARYLAND
PENNSYLVANIA AND NEW JERSEY
E-MAIL: DUFFIELD@DUFFNET.COM

DESIGNED BY: MRB

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PERMIT PLAN
CONCEPTUAL SITE PLAN
PORT OF WILMINGTON EDGEMOOR EXPANSION
BRANDYWINE HUNDRED ~ NEW CASTLE COUNTY ~ DELAWARE

DATE: OCTOBER 2019

SCALE: 1" = 500'

PROJECT NO. 11139.LH

SHEET: 5 OF 17

N/F
LUDLOW INDUSTRIAL PARK PARTNER
TP# 26-039.00-002

N/F
CALPINE MID-ATLANTIC GENERATION, LLC
TP# 26-039.00-003

N/F
CALPINE MID-ATLANTIC GENERATION, LLC
TP# 06-156.00-004

N/F
AHMED E. AMER, LLC
TP# 06-156.00-003

N/F
CALPINE MID-ATLANTIC GENERATION, LLC
TP# 26-039.00-001

N/F
STATE OF DELAWARE
TP# 06-147.00-017

FILLED SUBAQUEOUS LAND

BULK HEAD

PROPOSED LIMITS OF DREDGING

6:1 SLOPE

3:1 SLOPE

SEA WALL

DELAWARE RIVER MAIN CHANNEL

MHW

MLW

100YR/VE

(-8) (-13) (-18) (-23) (-28) (-33) (-38) (-43) (-48)

(20) (18) (13)

LEGEND

- PROPERTY LINE
- ADJOINER LINE
- CHANNEL LIMITS
- -48 EXISTING CONTOUR
- LIMITS OF DREDGING
- PROPOSED ASPHALT
- -48 PROPOSED CONTOUR

500' 0 500' 1000'

DRAWING SCALE 1" = 500'

DUFFIELD ASSOCIATES
Soil, Water & the Environment
5400 LIMESTONE ROAD
WILMINGTON, DE 19808-1232
TEL. 302.239.6634
FAX 302.239.8485
OFFICES IN DELAWARE, MARYLAND
PENNSYLVANIA AND NEW JERSEY
E-MAIL: DUFFIELD@DUFFNET.COM

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PERMIT PLAN
BERTH GRADING PLAN
PORT OF WILMINGTON EDGEMOOR EXPANSION

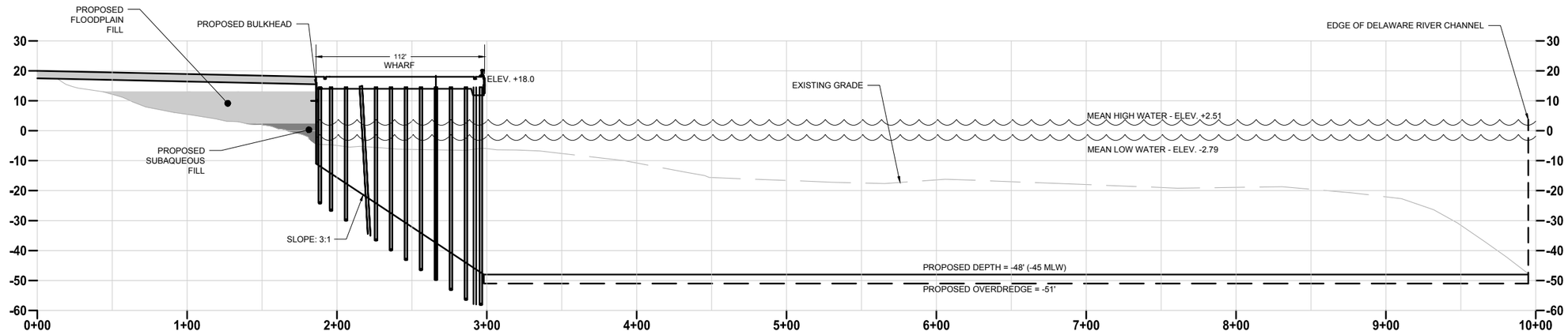
BRANDYWINE HUNDRED ~ NEW CASTLE COUNTY ~ DELAWARE

DATE: OCTOBER 2019

SCALE: 1" = 500'

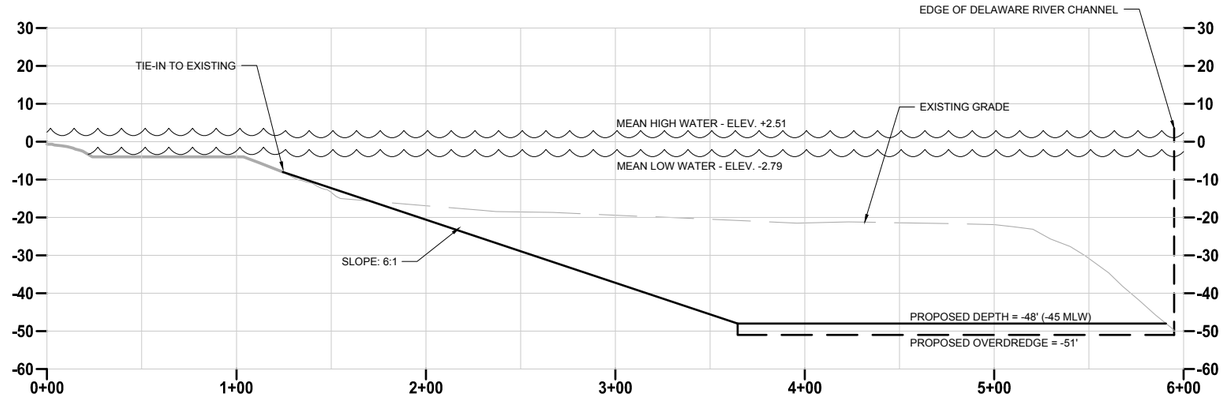
PROJECT NO. 11139.LH

SHEET: 6 OF 17



SECTION WHARF

SCALE: HORIZONTAL: 1" = 80'
VERTICAL: 1" = 40'



SECTION AT TIE-IN TO EXISTING SUBAQUEOUS SLOPE

SCALE: HORIZONTAL: 1" = 80'
VERTICAL: 1" = 40'

DUFFIELD ASSOCIATES
Soil, Water & the Environment
5400 LIMESTONE ROAD
WILMINGTON, DE 19808-1232
TEL. 302.239.6634
FAX 302.239.8485
OFFICES IN DELAWARE, MARYLAND
PENNSYLVANIA AND NEW JERSEY
E-MAIL: DUFFIELD@DUFFNET.COM

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PERMIT PLAN
SECTIONS
PORT OF WILMINGTON EDGEMOOR EXPANSION

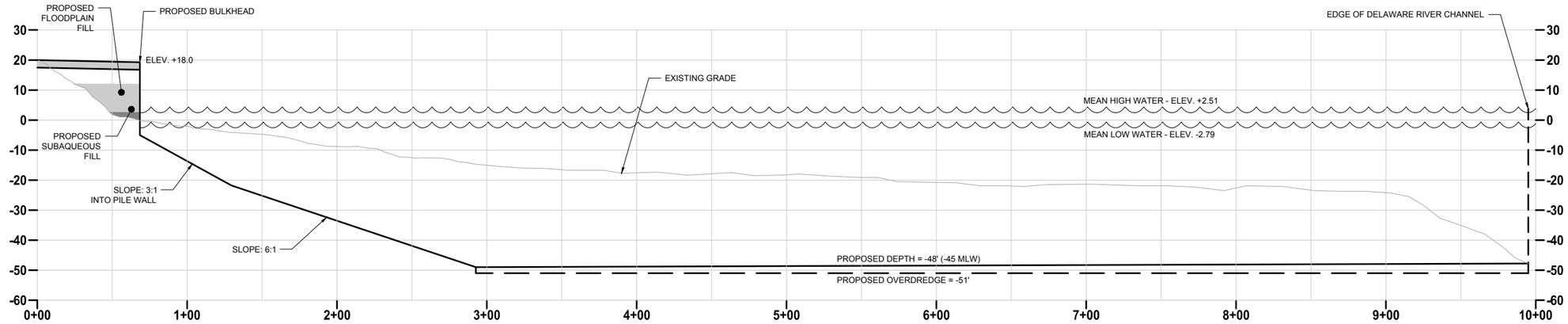
BRANDYWINE HUNDRED ~ NEW CASTLE COUNTY ~ DELAWARE

DATE: OCTOBER 2019

SCALE: AS SHOWN

PROJECT NO. 11139.LH

SHEET: 7 OF 17



SECTION AT BULKHEAD

SCALE: HORIZONTAL: 1" = 80'
VERTICAL: 1" = 40'

DUFFIELD ASSOCIATES
Soil, Water & the Environment
5400 LIMESTONE ROAD
WILMINGTON, DE 19808-1232
TEL. 302.239.6634
FAX 302.239.8485
OFFICES IN DELAWARE, MARYLAND
PENNSYLVANIA AND NEW JERSEY
E-MAIL: DUFFIELD@DUFFNET.COM

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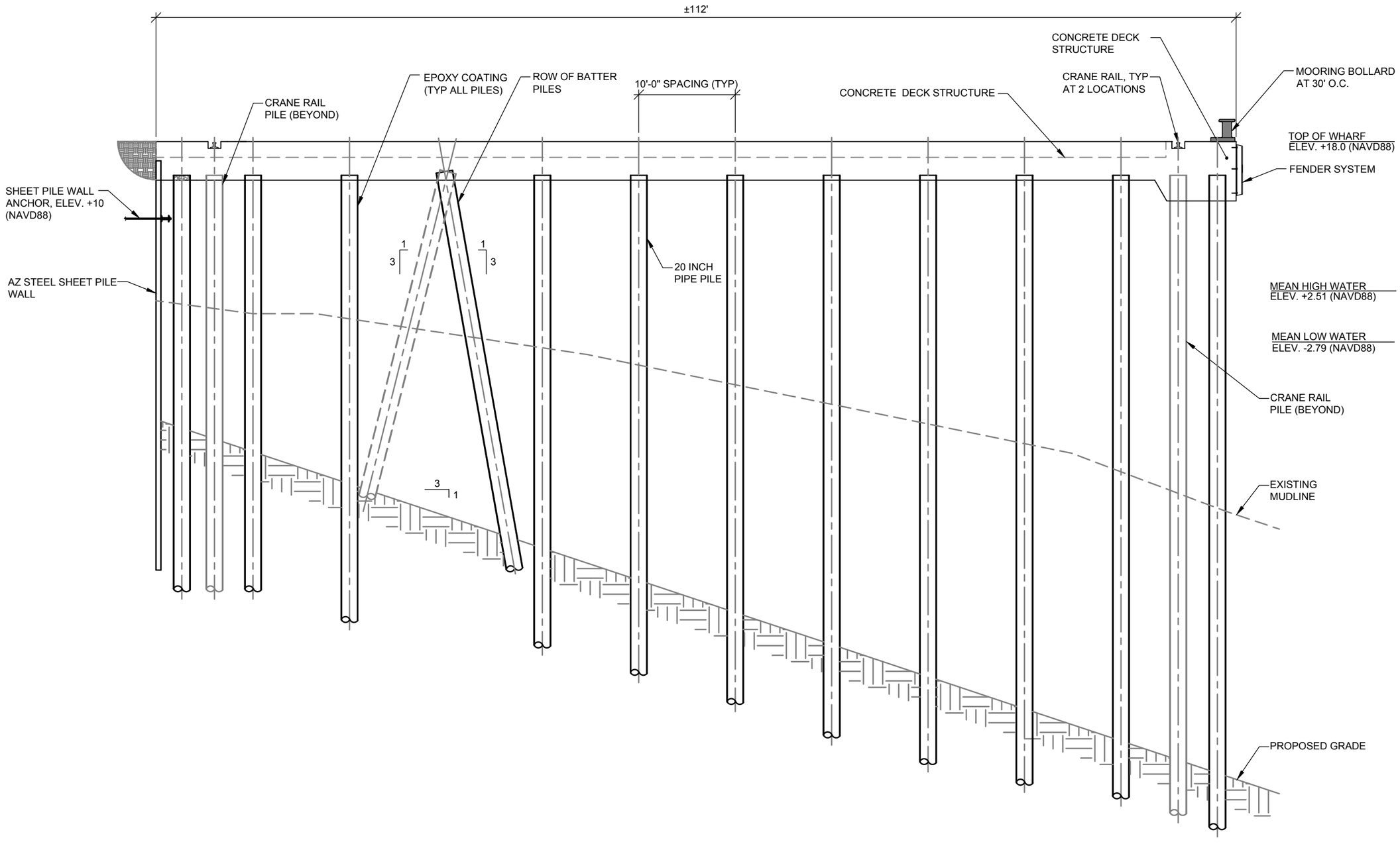
PERMIT PLAN
SECTIONS
PORT OF WILMINGTON EDGEMOOR EXPANSION

BRANDYWINE HUNDRED ~ NEW CASTLE COUNTY ~ DELAWARE

DATE: OCTOBER 2019
SCALE: AS SHOWN
PROJECT NO. 11139.LH
SHEET: 8 OF 17



WHARF CONSTRUCTION SECTION - SECTION VIEW
SCALE: NOT TO SCALE

DUFFIELD ASSOCIATES
Soil, Water & the Environment
5400 LIMESTONE ROAD
WILMINGTON, DE 19808-1232
TEL. 302.239.6634
FAX 302.239.8485
OFFICES IN DELAWARE, MARYLAND
PENNSYLVANIA AND NEW JERSEY
E-MAIL: DUFFIELD@DUFFNET.COM

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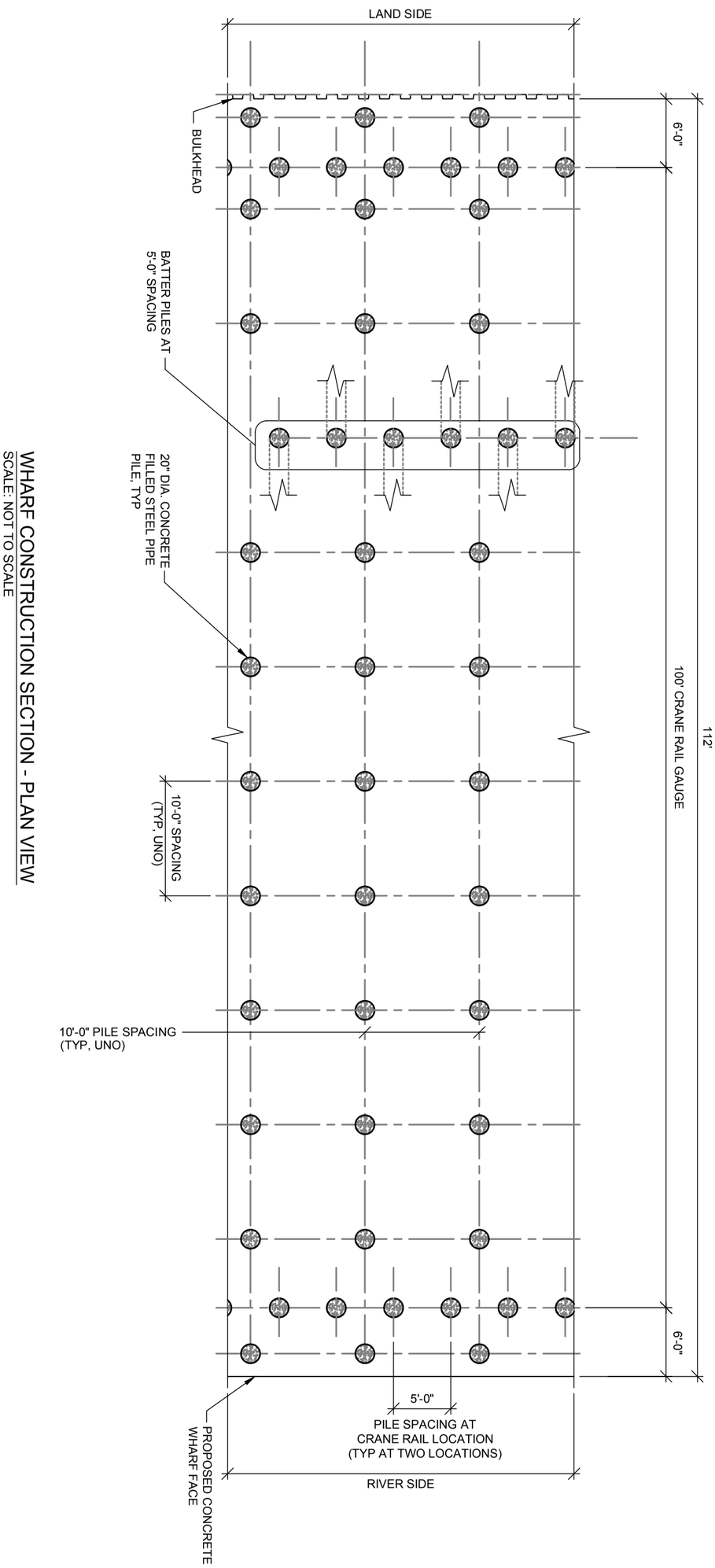
FILE: PRMT-Struct-11139LH.dwg

PERMIT PLAN
WHARF STRUCTURAL DETAILS
PORT OF WILMINGTON EDGEMOOR EXPANSION
BRANDYWINE HUNDRED ~ NEW CASTLE COUNTY ~ DELAWARE

DATE: OCTOBER 2019
SCALE: NTS
PROJECT NO. 11139.LH
SHEET: 9 OF 17



WHARF CONSTRUCTION SECTION - PLAN VIEW

SCALE: NOT TO SCALE

PERMIT PLAN

WHARF STRUCTURAL DETAILS

PORT OF WILMINGTON EDGEMOOR EXPANSION

BRANDYWINE HUNDRED ~ NEW CASTLE COUNTY ~ DELAWARE

DESIGNED BY:	**MRB**
DRAWN BY:	**SFH**
CHECKED BY:	**BJD**
FILE:	**PRMT-Struct-11139LH.dwg**

DATE: OCTOBER 2019

SCALE: NTS

PROJECT NO. 11139.LH

SHEET: 10 OF 17

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Soil, Water & the Environment

5400 LIMESTONE ROAD
WILMINGTON, DE 19808-1232
TEL. 302.239.6634
FAX 302.239.8485

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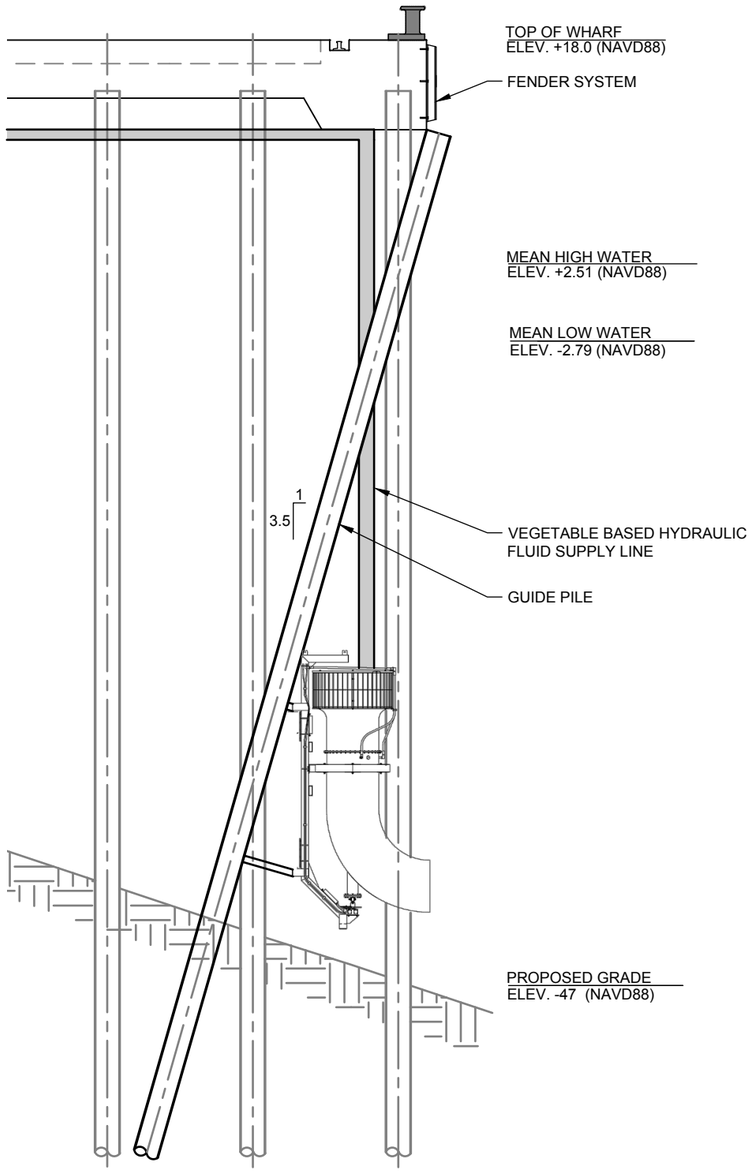
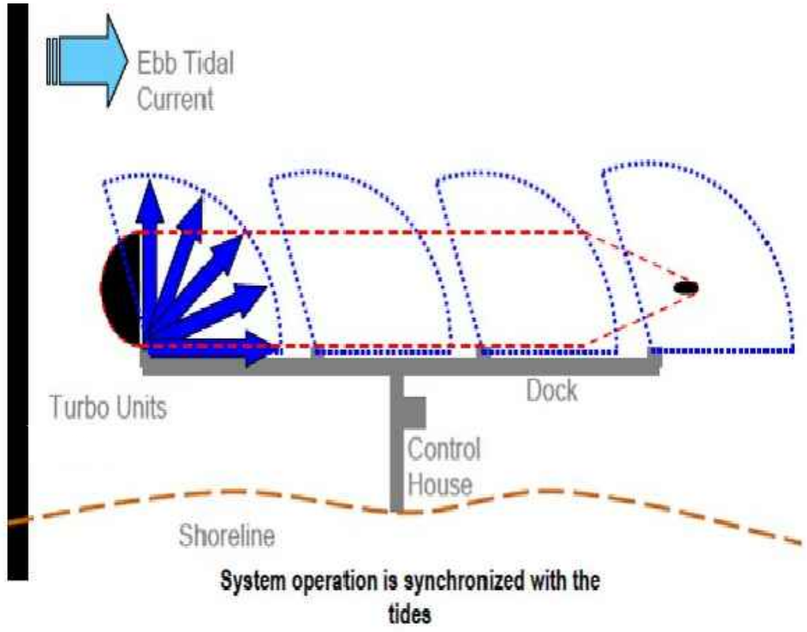


SEDCON SHOALING FAN CONFIGURATION - SECTION VIEW
SCALE: NOT TO SCALE

SEDCON SHOALING FAN - CONCEPTUAL IMAGE
SCALE: NOT TO SCALE



SEDCON SHOALING FAN - CONCEPTUAL IMAGE
SCALE: NOT TO SCALE

DUFFIELD ASSOCIATES
Soil, Water & the Environment
5400 LIMESTONE ROAD
WILMINGTON, DE 19808-1232
TEL. 302.239.6634
FAX 302.239.8485
OFFICES IN DELAWARE, MARYLAND
PENNSYLVANIA AND NEW JERSEY
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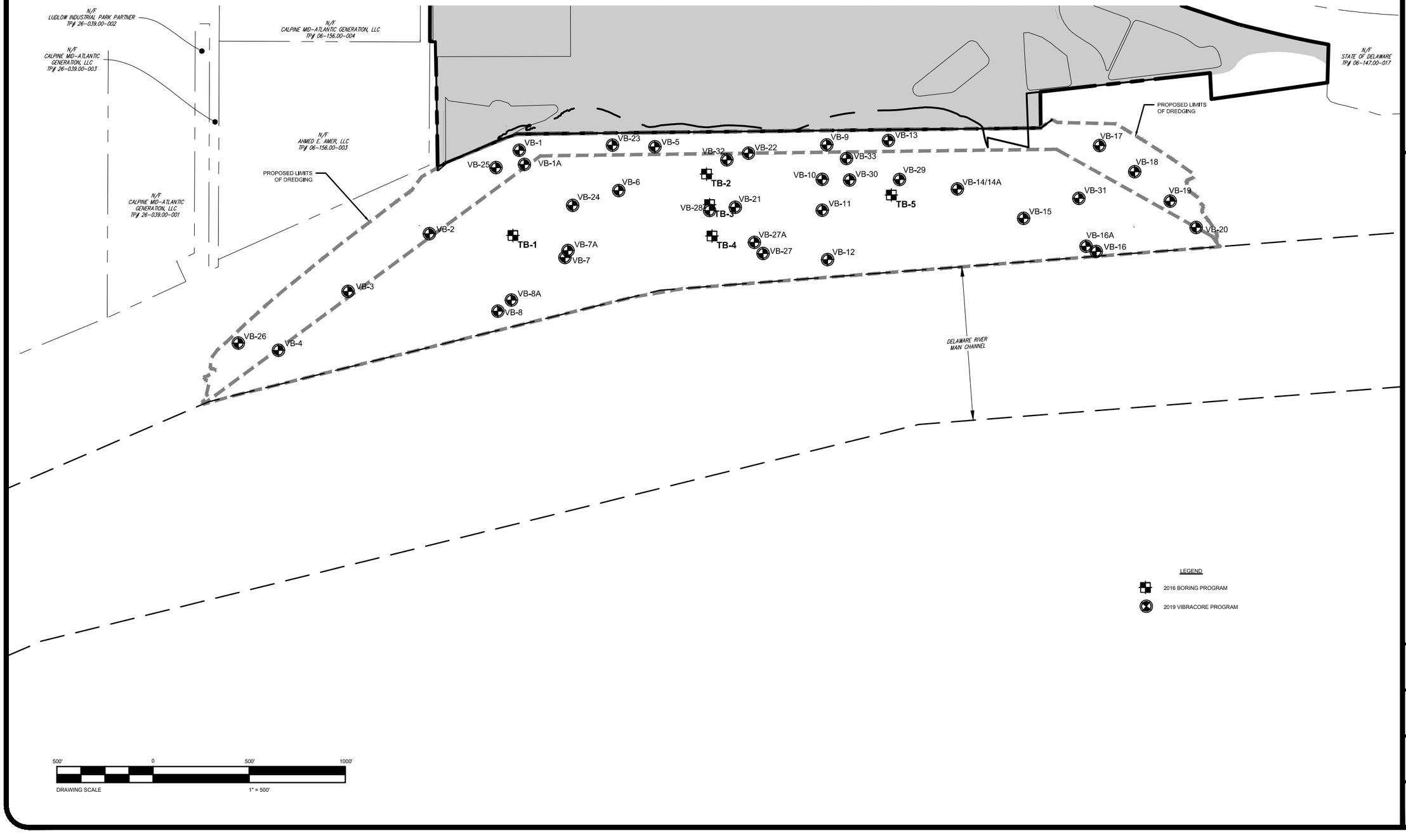
PERMIT PLAN
SEDIMENT FAN DETAILS
PORT OF WILMINGTON EDGEMOOR EXPANSION
BRANDYWINE HUNDRED ~ NEW CASTLE COUNTY ~ DELAWARE

DATE: OCTOBER 2019
SCALE: NTS
PROJECT NO. 11139.LH
SHEET: 11 OF 17



DUFFIELD ASSOCIATES
Soil, Water & the Environment
5400 LIMESTONE ROAD
WILMINGTON, DE 19808-1232
TEL 302.239.6634
FAX 302.239.8485
OFFICES IN DELAWARE, MARYLAND
PENNSYLVANIA AND NEW JERSEY
E-MAIL: DUFFIELD@DUFFNET.COM

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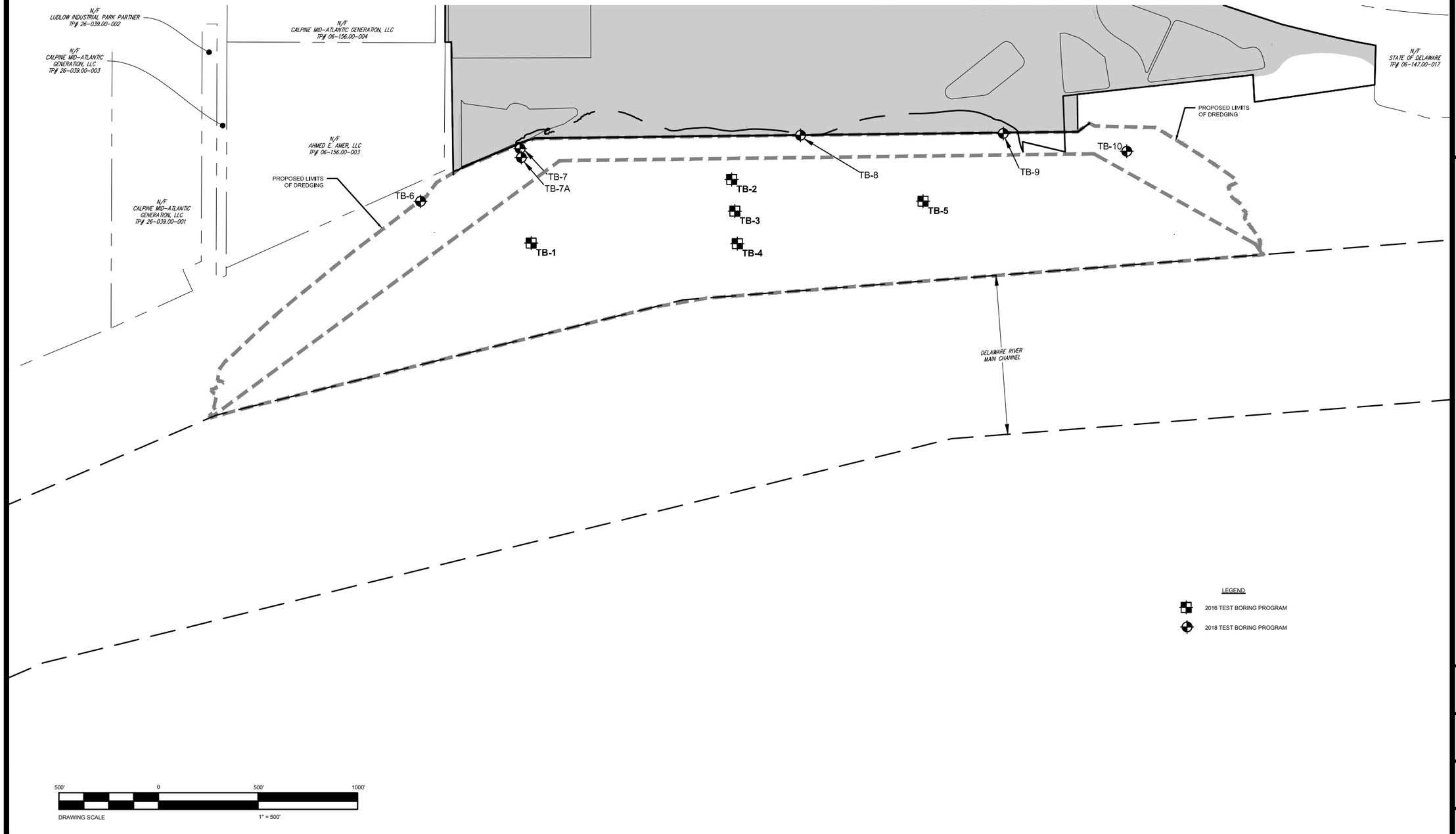
PERMIT PLAN
ANALYTICAL SAMPLE LOCATION SKETCH
PORT OF WILMINGTON EDGEMOOR EXPANSION
BRANDYWINE HUNDRED ~ NEW CASTLE COUNTY ~ DELAWARE

DATE: OCTOBER 2019

SCALE: 1" = 500'

PROJECT NO. 11139.LH

SHEET: 12 OF 17



DUFFIELD ASSOCIATES
Soil, Water & the Environment
5400 LIMESTONE ROAD
WILMINGTON, DE 19808-1232
TEL. 302.239.6634
FAX 302.239.8485
OFFICES IN DELAWARE, MARYLAND
PENNSYLVANIA AND NEW JERSEY
E-MAIL: DUFFIELD@DUFFNET.COM

DESIGNED BY: MRB
DRAWN BY: KJT
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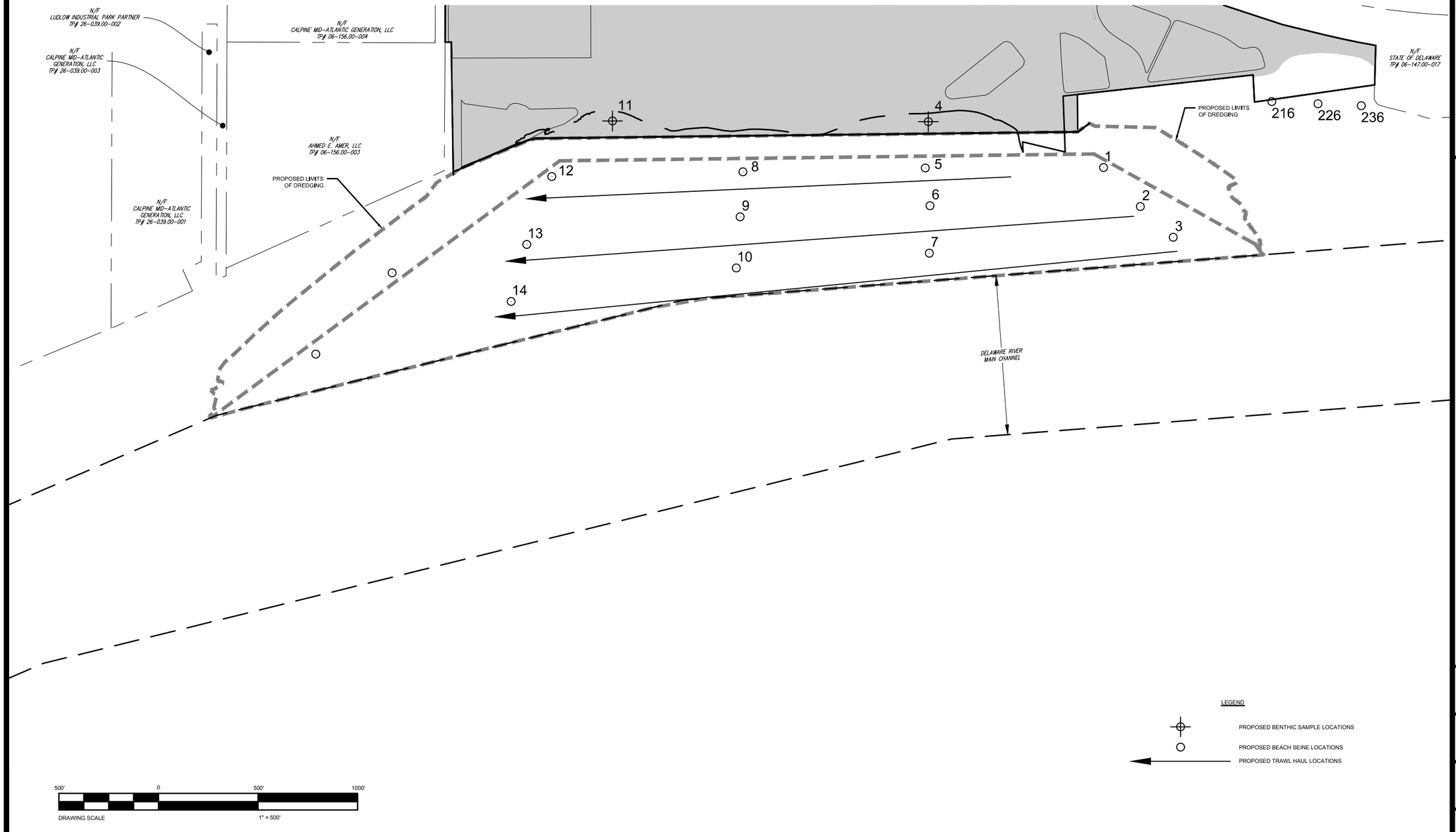
FILE: PRMT-GEO-11139LH.dwg

PERMIT PLAN
GEOTECHNICAL BORING LOCATION SKETCH
PORT OF WILMINGTON EDGEMOOR EXPANSION
BRANDYWINE HUNDRED ~ NEW CASTLE COUNTY ~ DELAWARE

DATE: OCTOBER 2019
SCALE: 1" = 500'
PROJECT NO. 11139.LH
SHEET: 13 OF 17



DUFFIELD ASSOCIATES
Soil, Water & the Environment
5400 LIMESTONE ROAD
WILMINGTON, DE 19808-1232
TEL. 302.239.6634
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OFFICES IN DELAWARE, MARYLAND
PENNSYLVANIA AND NEW JERSEY
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DESIGNED BY: MRB
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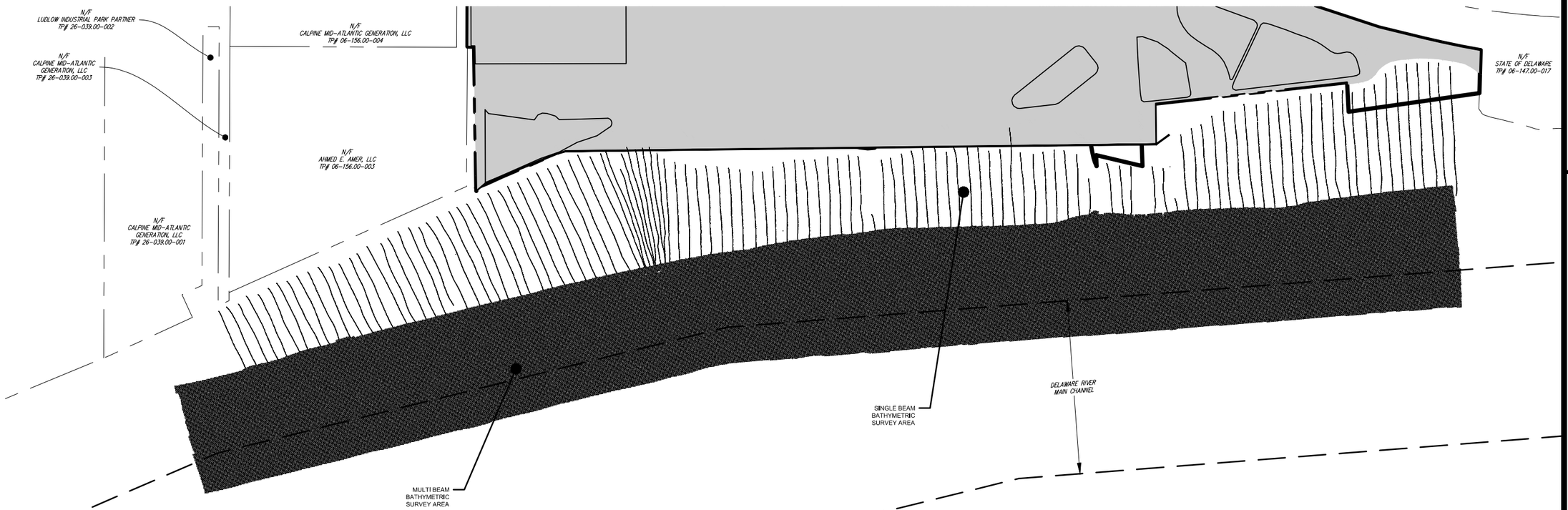
FILE: PRMT-FISH-11139LH.dwg

PERMIT PLAN
ESSENTIAL FISH HABITAT SURVEY
PORT OF WILMINGTON EDGEMOOR EXPANSION
BRANDYWINE HUNDRED ~ NEW CASTLE COUNTY ~ DELAWARE

DATE: OCTOBER 2019
SCALE: 1" = 500'
PROJECT NO. 11139.LH
SHEET: 14 OF 17



500' 0 500' 1000'

DRAWING SCALE 1" = 500'

NOTE
BATHYMETRIC SOUNDING PERFORMED BY GAHAGAN & BRYANT ASSOCIATES IN JULY, 2018 WITH SINGLE BEAM AND MULTIBEAM SURVEY IN GENERAL ACCORDANCE WITH EM 1110-Z-1003.

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Soil, Water & the Environment
5400 LIMESTONE ROAD
WILMINGTON, DE 19808-1232
TEL. 302.239.6634
FAX 302.239.8485
OFFICES IN DELAWARE, MARYLAND
PENNSYLVANIA AND NEW JERSEY
E-MAIL: DUFFIELD@DUFFNET.COM

DESIGNED BY: MRB
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CHECKED BY: BJD
FILE: PRMT-Bath-11139LH.dwg

PERMIT PLAN
BATHYMETRIC SURVEY
PORT OF WILMINGTON EDGEMOOR EXPANSION
BRANDYWINE HUNDRED ~ NEW CASTLE COUNTY ~ DELAWARE

DATE: OCTOBER 2019
SCALE: 1" = 500'
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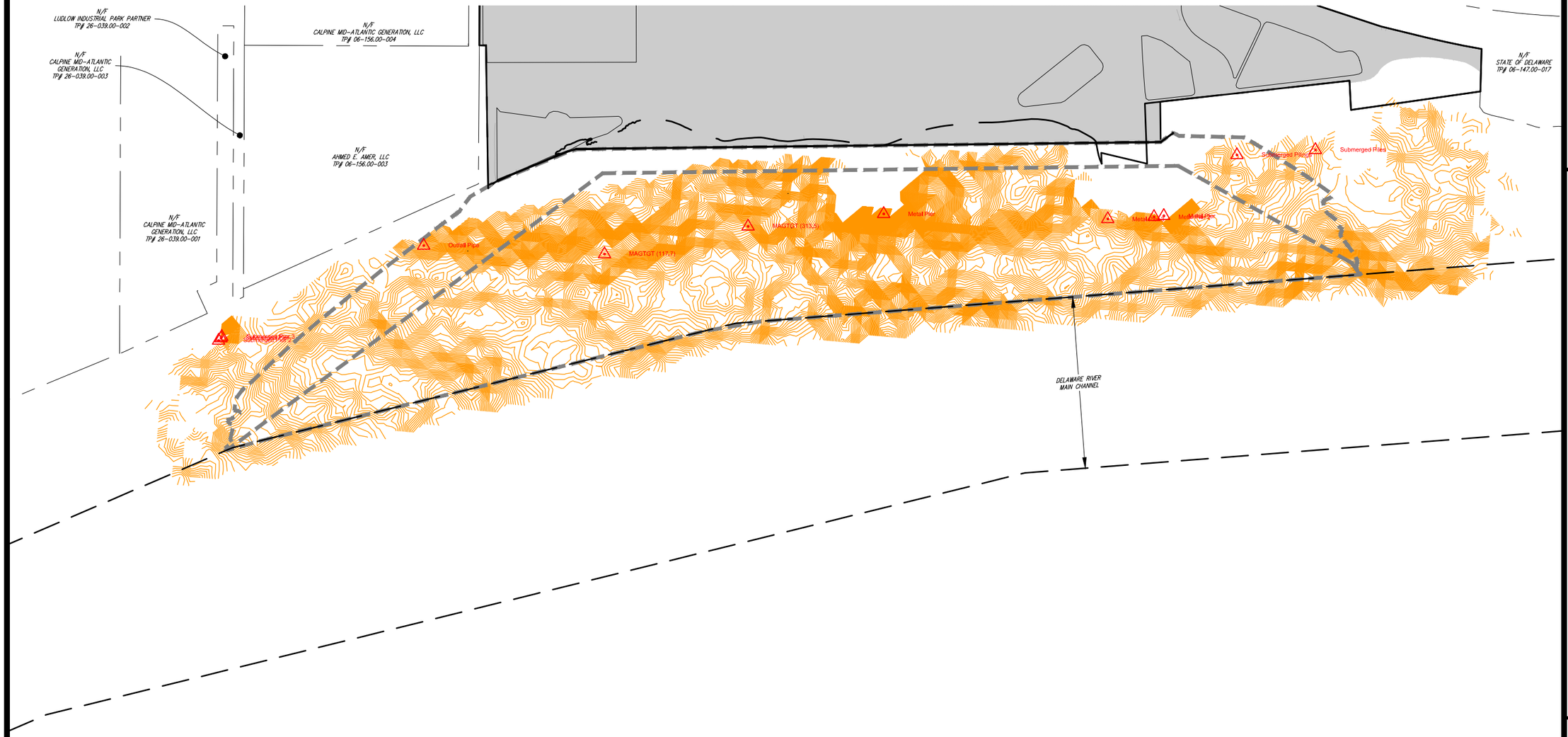
SHEET: 15 OF 17



500' 0 500' 1000'

DRAWING SCALE 1" = 500'

NOTE
MAGNETOMETER READINGS OF THE PROJECT SETUP PERFORMED BY GAHAGAN & BRYANT ASSOCIATES IN JULY 2018. INTERPRETATION OF DATA PROVIDED IN R.C. GOODWIN CULTURAL RESOURCES REPORT.

DUFFIELD ASSOCIATES
Soil, Water & the Environment
5400 LIMESTONE ROAD
WILMINGTON, DE 19808-1232
TEL. 302.239.6634
FAX 302.239.8485
OFFICES IN DELAWARE, MARYLAND
PENNSYLVANIA AND NEW JERSEY
E-MAIL: DUFFIELD@DUFFNET.COM

DESIGNED BY: MRB
DRAWN BY: MH
CHECKED BY: BJD
FILE: PRMT-MAG-11139LH.dwg

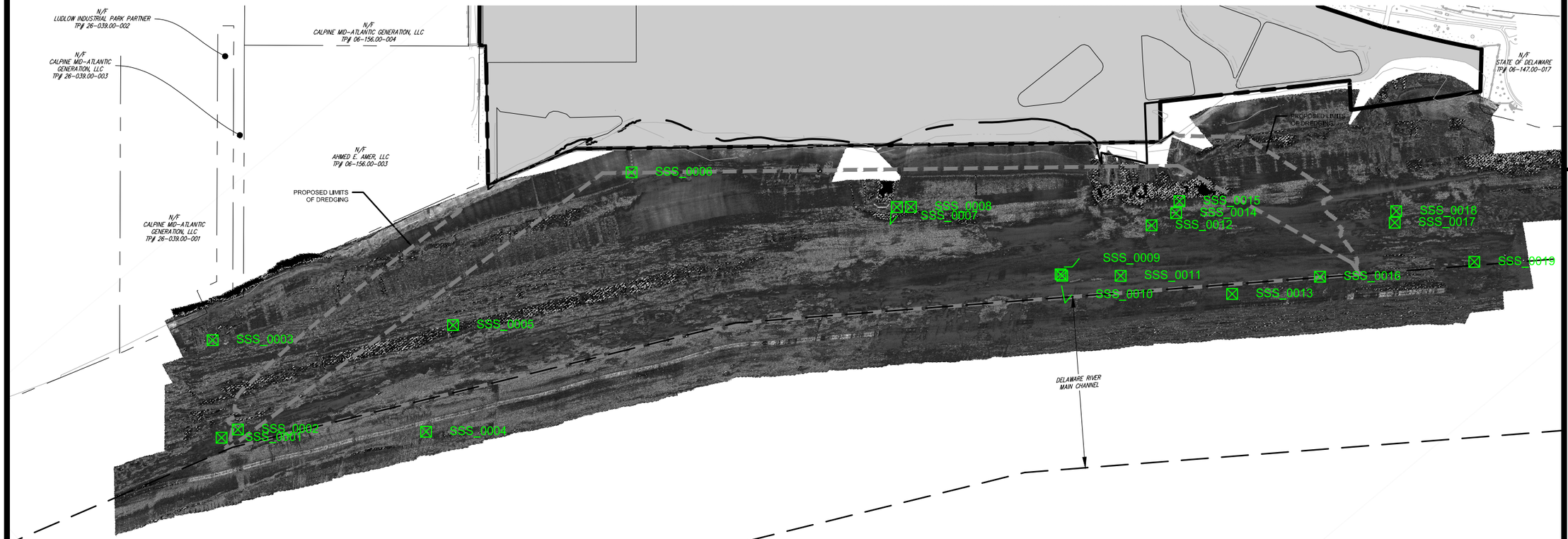
PERMIT PLAN
MAGNETOMETER CONTOUR MAPPING
PORT OF WILMINGTON EDGEMOOR EXPANSION
BRANDYWINE HUNDRED ~ NEW CASTLE COUNTY ~ DELAWARE

DATE: OCTOBER 2019

SCALE: 1" = 500'

PROJECT NO. 11139.LH

SHEET: 16 OF 17



500' 0 500' 1000'

DRAWING SCALE 1" = 500'

NOTE
SIDE SCAN SONAR SOUNDING PERFORMED BY GAHAGAN & BRYANT ASSOCIATES IN JULY, 2018. INTERPRETATION OF DATA PROVIDED IN R.C. GOODWIN CULTURAL AND NATURAL RESOURCES REPORT.

DUFFIELD ASSOCIATES
Soil, Water & the Environment
5400 LIMESTONE ROAD
WILMINGTON, DE 19808-1232
TEL 302.239.6634
FAX 302.239.8485
OFFICES IN DELAWARE, MARYLAND
PENNSYLVANIA AND NEW JERSEY
E-MAIL: DUFFIELD@DUFFNET.COM

DESIGNED BY: MRB
DRAWN BY: KJT
CHECKED BY: BJD
FILE: PRMT-SSS-11139LH.dwg

PERMIT PLAN
SIDE SCAN SONAR
PORT OF WILMINGTON EDGEMOOR EXPANSION
BRANDYWINE HUNDRED ~ NEW CASTLE COUNTY ~ DELAWARE

DATE: OCTOBER 2019
SCALE: 1" = 500'
PROJECT NO. 11139.LH
SHEET: 17 OF 17