



DEPARTMENT OF
ENVIRONMENTAL PROGRAMS

Worcester County

GOVERNMENT CENTER
ONE WEST MARKET STREET, ROOM 1306
SNOW HILL, MARYLAND 21863
TEL: 410.632.1220 / FAX: 410.632.2012

LAND PRESERVATION PROGRAM
STORMWATER MANAGEMENT
SEDIMENT AND EROSION CONTROL
SHORELINE CONSTRUCTION
AGRICULTURAL PRESERVATION
ADVISORY BOARD

WELL & SEPTIC
WATER & SEWER PLANNING
PLUMBING & GAS
CRITICAL AREAS/FORESTRY
COMMUNITY HYGIENE

May 18, 2023

This notification is to advise you that the Department has received and is presently reviewing the following request for a shoreline construction project:

State of Maryland- Assateague State Park – Request No. 2023-052 – Request to use approximately 5595 cubic yards of clean sand and gravel fill to create approximately 2137 sq. ft. of low marsh, 35,270 sq. ft. of high marsh and 8450 sq. ft. of dune habitat planted according to the buffer management and planting plan. A Series of four sand/coble/boulder headlands approximately 50-75 'wide x 150-400' long will be implemented along approximately 1420' long living shoreline . Maximum channelward extension of 275'. This project is located at Rum Pointe Rd, Berlin, also known as Tax Map 42, Parcel 8. Tenth Tax District of Worcester County, Maryland.

The Department in considering this application will make specific findings of fact with regard to the environmental impact, navigational impact, recreational potential, commercial benefit to Worcester County, impact of the proposed construction upon the surrounding neighborhood and upon property values therein, and any other pertinent issues. Approval from the Department does not guarantee approval from any other applicable regulatory agencies.

If you have an interest which may be adversely affected by the issuance of this permit, you are requested to notify this Department in writing within fifteen (15) calendar days which will end on June 2, 2023.

Sincerely,

Brandy Whitlock
Environmental Inspector

cc: Interested Parties
David Bradford, Deputy Director

File



WORCESTER COUNTY
SHORELINE CONSTRUCTION
APPLICATION

Request No.: 2023-052
Submission Date: 5-18-23

☒ Major Construction (\$300.00)

☐ Minor Construction (\$150.00)

Written Description of Proposed Improvement (include channelward distance):

The project will use approximately 5,595 cubic yards of clean sand and gravel fill to create approximately 2,137 square feet of low marsh 35,270 square feet of high marsh, and 8,450 square feet of dune habitat planted according to the buffer management and planting plan. A series of four sand/cobble/boulder headlands approximately 50 - 75 feet wide by 150 - 400 feet long will be implemented along the approximately 1,420 ft. long living shoreline. The furthest channelward extent will be 275 feet channelward of the mean high water line.

Property Description: see additional page for additional properties and owners

Map: 0042 Parcel: 0008 Lot: Section: Block: Tax District:

Street Address: Rum Pointe Rd

Subdivision: 75Z8

Dwelling on lot: Dwelling under construction: Vacant: Commercial: X

Owner: State of Maryland Phone No. 4106412918

Mailing Address: Tawes State Office Bldg. 580 Taylor Ave. Annapolis MD, 21401

E-Mail Address: Angela.Baldwin@maryland.gov

Contractor: Underwood & Associates Phone No.: 4108493211

Mailing Address:

E-Mail Address: joshua@ecosystemrestoration.com

Recorded Adjacent Property Owner: Dolney Living Trust Dolney Robert D Trustee

Property Address: 6902 Rum Point Lane Berlin, MD 2811

Tax Map: 0042 Parcel: 0036 Lot: 1A Section: Block:

Recorded Adjacent Property Owner:

Property Address:

Tax Map: Parcel: Lot: Section: Block:

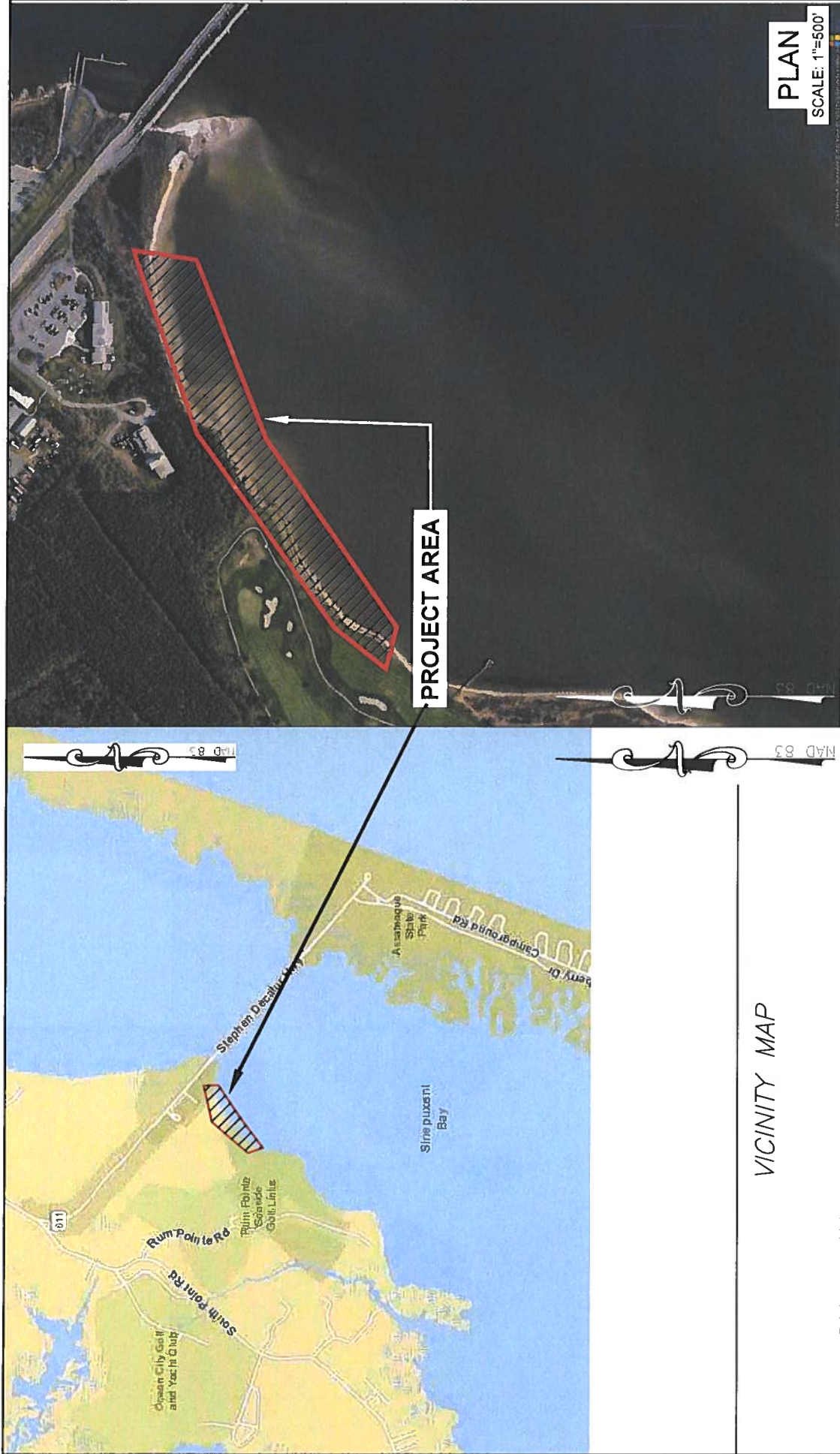
As the applicant, I attest that the information presented on this application, site plan and any written documentation attached hereto is known to be accurate. I understand that the proposed shoreline improvement will be constructed to meet or exceed minimum design standards adopted by the Department. Any deviation from these standards will require construction plans sealed by an engineer registered in the State of Maryland. I acknowledge that any falsification of information presented may result in revocation of this approval and of the subsequent Shoreline Construction Permit.

Bill Wahlender
Assateague Island National Seashore

[Signature] 3/13/23
Owner/Applicant's Signature Date

Angela Baldwin
Assateague State Park

[Signature]



VICINITY MAP

SHEET INDEX

DESCRIPTION	SHEET
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PLAN

SCALE: 1"=500'

January 20, 2023

Scale	AS SHOWN	VICINITY MAP AND AERIAL PHOTO
Drawn By	J.H./J.C.	SINEPUXENT SOUTH DYNAMIC LIVING SHORELINE
Approved By	D.W.	11800 MARSH VIEW LANE, BERLIN, MD 21811
Sheet No.	1 OF 16	MAP 0042, GRID 0020, PARCEL 0008
Project No.	21-032	1ST ELECTION DISTRICT, WORCESTER COUNTY
Proposal No.	...	

UNDERWOOD & ASSOCIATES
LANDSCAPE ARCHITECTURE + ECOLOGICAL RESTORATION
A DESIGN/BUILD CO.

1753 SELLING TRAIL • ANNAPOLIS, MD 21401
TEL. 410-848-3211 FAX 410-848-2138



PLAN

SCALE: 1"=1000'

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Scale	AS SHOWN
Drawn By	J.H./J.K.
Approved By	D.W.
Sheet No.	2 OF 16
Project No.	21-032
Proposal No.	...

PROJECT VICINITY CONDITIONS

SINEPUXENT SOUTH DYNAMIC LIVING SHORELINE

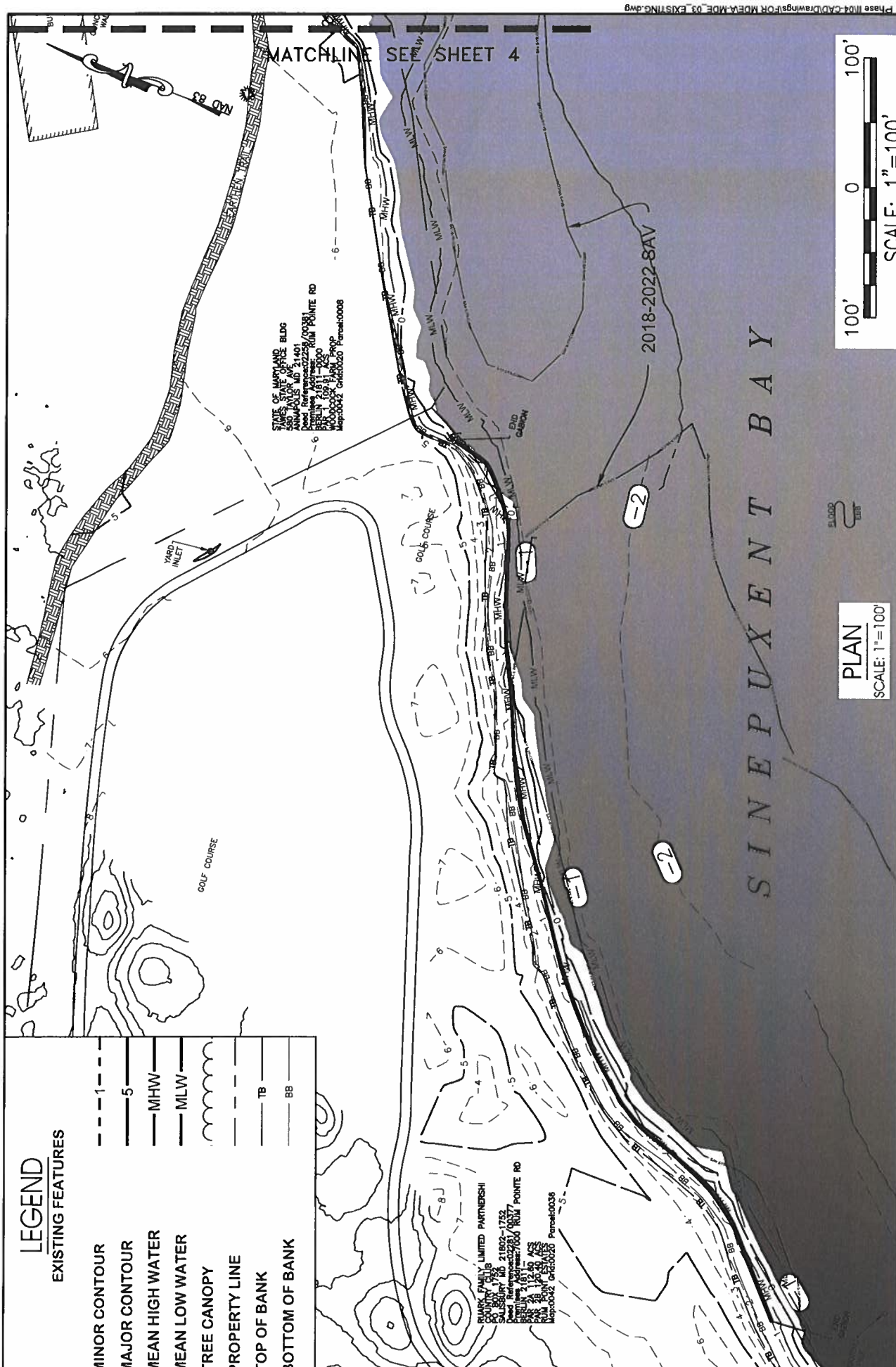
11800 MARSH VIEW LANE, BERLIN, MD 21811

MAP 0042, GRID 0020, PARCEL 0008

1ST ELECTION DISTRICT, WORCESTER COUNTY

January 20, 2023

Cadd File: S:\008-Projects\Assateague Phase II\04-CAD\Drawings\FOR MDEA-MDE_02_PROJECT\VICINITY.dwg



LEGEND

EXISTING FEATURES

- MINOR CONTOUR
- MAJOR CONTOUR
- MEAN HIGH WATER
- MEAN LOW WATER
- TREE CANOPY
- PROPERTY LINE
- TOP OF BANK
- BOTTOM OF BANK

NOTES:

MHW = -0.09 / MLW = -0.7 (NAVD88 DATUM)
MHW = 0.61 / MLW = 0 (MLW DATUM)
MHW AND MLW ARE BASED ON NOAA BUNTINGS BRIDGE, MD STATION 8570691

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Scale	AS SHOWN
Drawn By	J.H.JLK
Approved By	D.W.
Sheet No.	3 OF 16
Project No.	21-032
Proposal No.	...

EXISTING CONDITIONS
SINEPUXENT SOUTH DYNAMIC LIVING SHORELINE
11800 MARSH VIEW LANE, BERLIN, MD 21811
MAP 0042, GRID 0020, PARCEL 0008
1ST ELECTION DISTRICT, WORCESTER COUNTY

PLAN
SCALE: 1"=100'

100' 0 100'
SCALE: 1"=100'

January 20, 2023



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Scale AS SHOWN

Drawn By J.H.J.K.

Approved By D.W.

Sheet No. 4 OF 16

Project No. 21-032

Proposal No. ...

EXISTING CONDITIONS

SINEPUXENT SOUTH DYNAMIC LIVING SHORELINE

11800 MARSH VIEW LANE, BERLIN, MD 21811
MAP 0042, GRID 0020, PARCEL 0008
1ST ELECTION DISTRICT, WORCESTER COUNTY

LEGEND

EXISTING FEATURES

MINOR CONTOUR

MAJOR CONTOUR

MEAN HIGH WATER

MEAN LOW WATER

TREE CANOPY

PROPERTY LINE

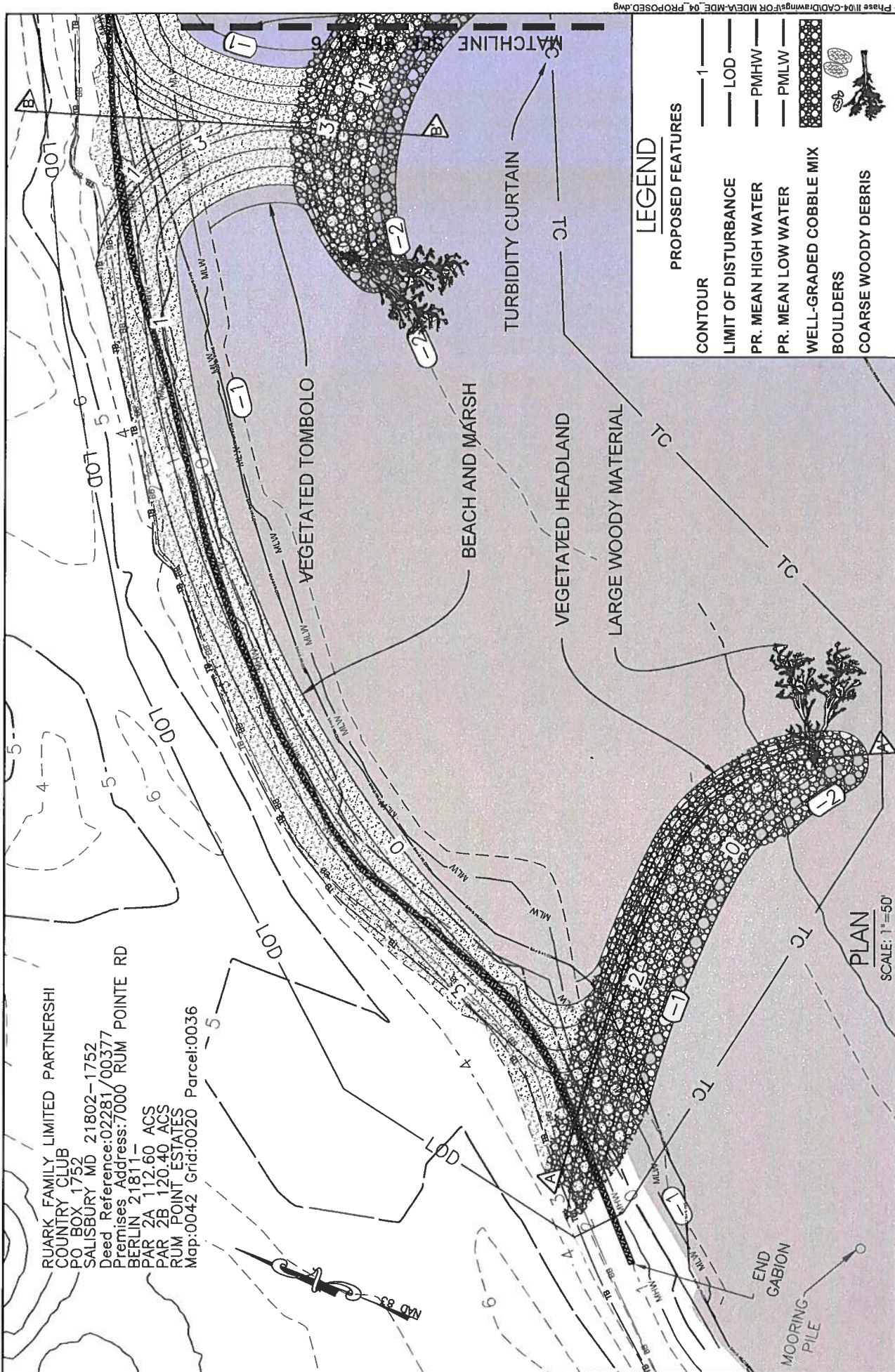
TOP OF BANK

BOTTOM OF BANK

100' 0 100'

SCALE: 1"=100'

January 20, 2023



RUARK FAMILY LIMITED PARTNERSHI
 COUNTRY CLUB
 PO BOX 1752
 SALISBURY MD 21802-1752
 Deed Reference: 02281/00377
 Premises Address: 7000 RUM POINTE RD
 BERLIN 21811
 PAR 2A 112.60 ACS
 PAR 2B 120.40 ACS
 RUM POINT ESTATES
 Map: 0042 Grid: 0020 Parcel: 0036

LEGEND

PROPOSED FEATURES

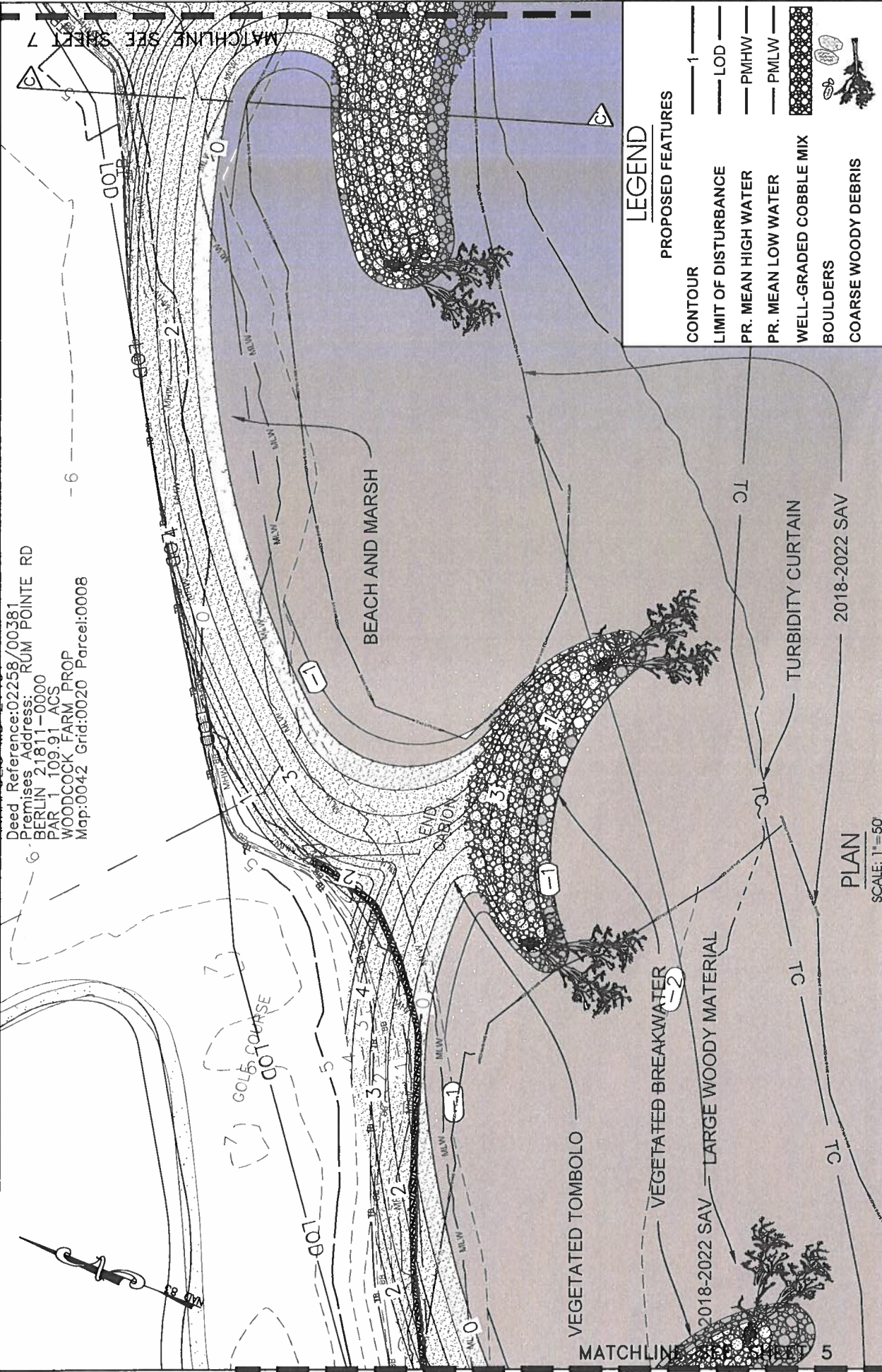
CONTOUR — 1 —
 LIMIT OF DISTURBANCE — LOD —
 PR. MEAN HIGH WATER — PMHW —
 PR. MEAN LOW WATER — PMLW —
 WELL-GRADED COBBLE MIX
 BOULDERS
 COARSE WOODY DEBRIS

Scale	AS SHOWN	PROPOSED CONDITIONS
Drawn By	J.H./J.K.	
Approved By	D.W.	
Sheet No.	5 OF 16	
Project No.	21-032	
Proposal No.	...	

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50' 0 50'
 SCALE: 1"=50'
 END GABION
 MOORING PILE

Deed Reference:02258/00381
 Premises Address: RUM POINTE RD
 BERLIN 21811-0000
 PAR 1 109.91 ACS
 WOODCOCK FARM PROP
 Map:0042 Grid:0020 Parcel:0008



LEGEND

PROPOSED FEATURES

- CONTOUR — 1
- LIMIT OF DISTURBANCE — LOD
- PR. MEAN HIGH WATER — PMHW
- PR. MEAN LOW WATER — PMLW
- WELL-GRADED COBBLE MIX
- BOULDERS
- COARSE WOODY DEBRIS

Scale	AS SHOWN	PROPOSED CONDITIONS
Drawn By	J.H./J.K.	SINEPUXENT SOUTH DYNAMIC LIVING SHORELINE
Approved By	D.W.	11800 MARSH VIEW LANE, BERLIN, MD 21811
Sheet No.	6 OF 16	MAP 0042, GRID 0020, PARCEL 0008
Project No.	21-032	1ST ELECTION DISTRICT, WORCESTER COUNTY
Proposal No.	...	

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 TEL: 410-840-3211 FAX: 410-840-2158





UNITED
Mailing
WASHN
Deed, P
Premis
BERLIN
4.89
SW OF
MINS
Map:00

LEGEND

- PROPOSED FEATURES**
- CONTOUR
 - LIMIT OF DISTURBANCE
 - PR. MEAN HIGH WATER
 - PR. MEAN LOW WATER
 - WELL-GRADED COBBLE MIX
 - BOULDERS
 - COARSE WOODY DEBRIS

PLAN

SCALE: 1"=50'



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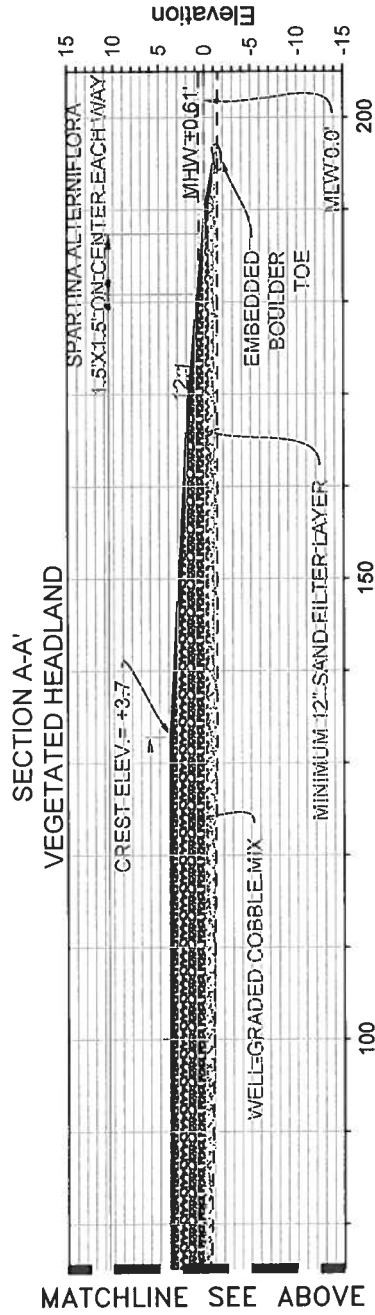
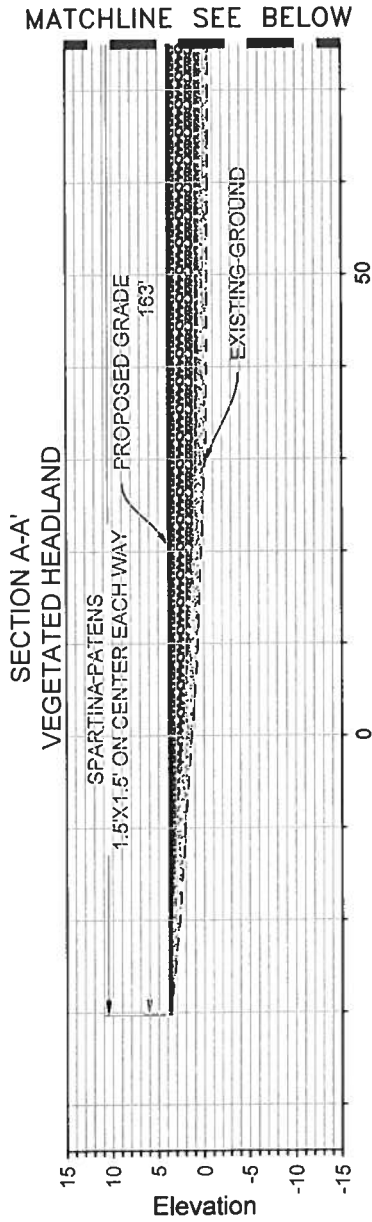
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A DESIGN/BUILD CO.

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AS SHOWN	PROPOSED CONDITIONS
Scale	J.H.J./K
Drawn By	D.W.
Approved By	7 OF 16
Sheet No.	21-032
Project No.	...
Proposal No.	...

SINEPUXENT SOUTH DYNAMIC LIVING SHORELINE
11800 MARSH VIEW LANE, BERLIN, MD 21811
MAP 0042, GRID 0020, PARCEL 0008
1ST ELECTION DISTRICT, WORCESTER COUNTY

January 20, 2023



LEGEND

EXISTING GRADE

PROPOSED GRADE

MEAN HIGH WATER (MHW)

MEAN LOW WATER (MLW)

SANDWOOD CHIP MIX

WELL-GRADED COBBLE MIX

BOULDER

CROSS SECTIONS

SCALE: HORI. 1"=20', VERT. 1"=20'

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A DESIGN/BUILD Co.

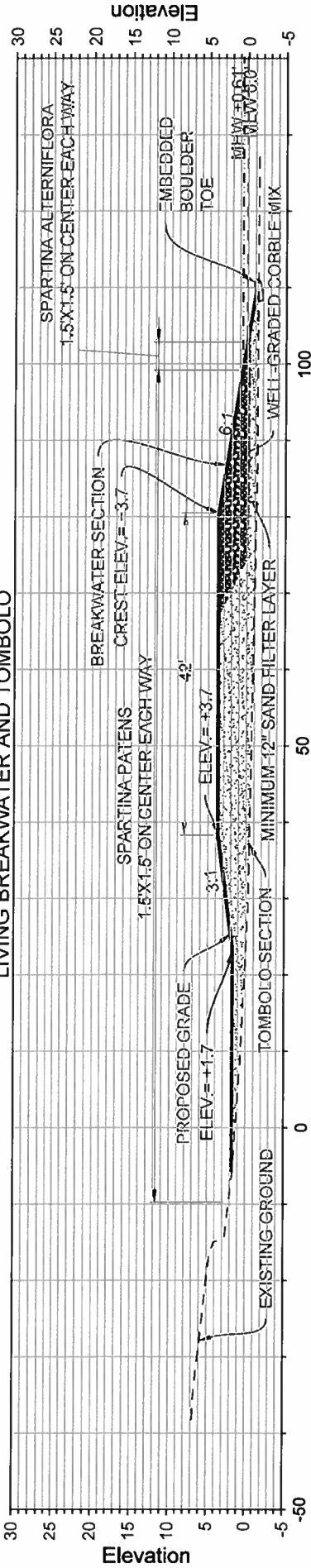
1755 EBLING TRAIL • ANNAPOLIS, MD 21401
(410) 410-8460 • FAX 410-846-2158

PROJECT CROSS SECTION
SINEPUXENT SOUTH DYNAMIC LIVING SHORELINE
11800 MARSH VIEW LANE, BERLIN, MD 21811
MAP 0042, GRID 0020, PARCEL 0008
1ST ELECTION DISTRICT, WORCESTER COUNTY

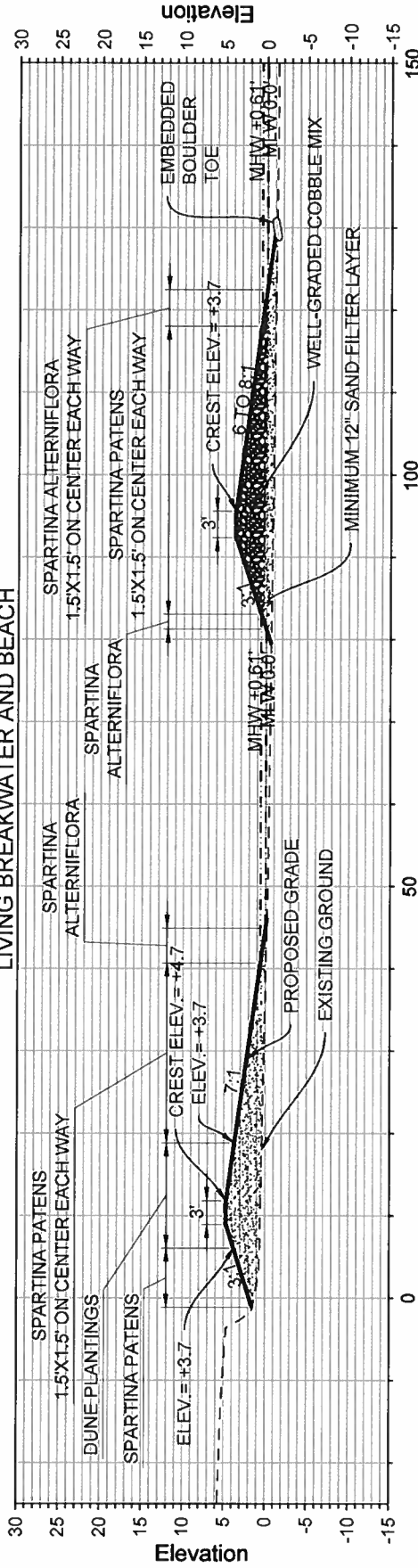
AS SHOWN
Drawn By J.H.J.K.
Approved By D.W.
Sheet No. 8 OF 16
Project No. 21-032
Proposal No. ...

January 20, 2023

SECTION B-B' LIVING BREAKWATER AND TOMBOLO



SECTION C-C' LIVING BREAKWATER AND BEACH



LEGEND

- EXISTING GRADE
- PROPOSED GRADE
- MEAN HIGH WATER (MHW)
- MEAN LOW WATER (MLW)
- SAND/WOOD CHIP MIX
- WELL-GRADED COBBLE MIX
- BOULDER

CROSS SECTIONS

SCALE: HORI. 1"=20', VERT. 1"=20'

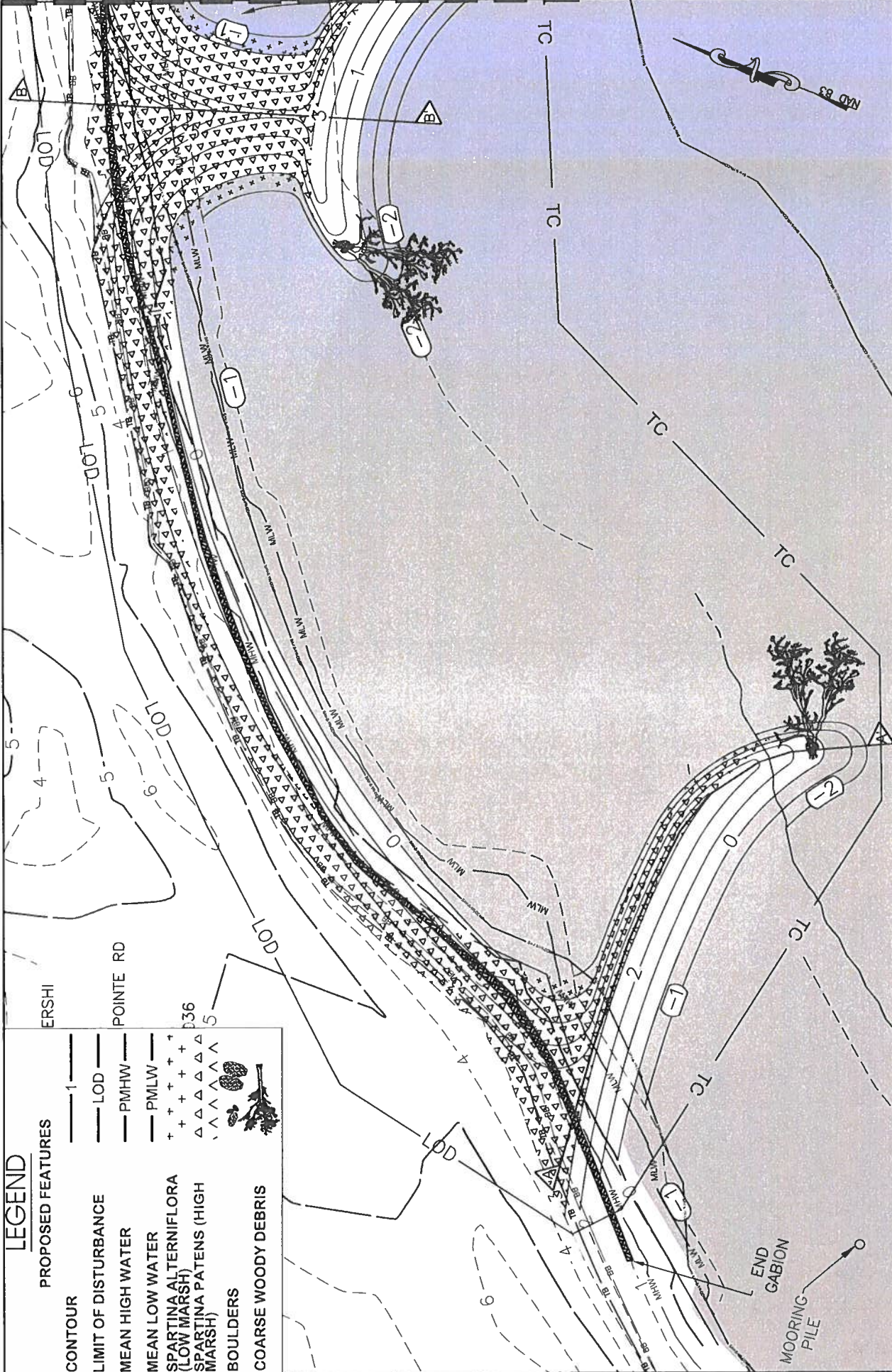
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A DESIGN/BUILD Co.
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TEL. 410-848-3211 FAX. 410-848-2158

Scale	AS SHOWN
Drawn By	J.H.J./K.
Approved By	D.W.
Sheet No.	9 OF 16
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PROJECT CROSS SECTION

SINEPUXENT SOUTH DYNAMIC LIVING SHORELINE
11800 MARSH VIEW LANE, BERLIN, MD 21811
MAP 0042, GRID 0020, PARCEL 0008
1ST ELECTION DISTRICT, WORCESTER COUNTY

January 20, 2023



LEGEND

PROPOSED FEATURES	
CONTOUR	1
LIMIT OF DISTURBANCE	LOD
MEAN HIGH WATER	PMHW
MEAN LOW WATER	PMLW
SPARTINA ALTERNIFLORA (LOW MARSH)	+ + + + +
SPARTINA PATENS (HIGH MARSH)	Δ Δ Δ Δ Δ
BOULDERS	• • • • •
COARSE WOODY DEBRIS	■ ■ ■ ■ ■

January 20, 2023

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PLAN
SCALE: 1"=50'

50' 0 50'

SCALE: 1"=50'

AS SHOWN
Scale
Drawn By: J.H.J./K.
Approved By: D.W.
Sheet No.: 10 OF 16
Project No.: 21-032
Proposal No.: ...

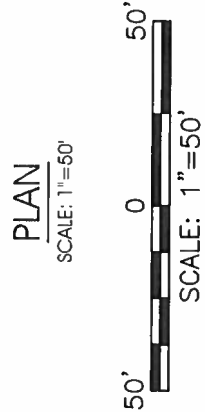
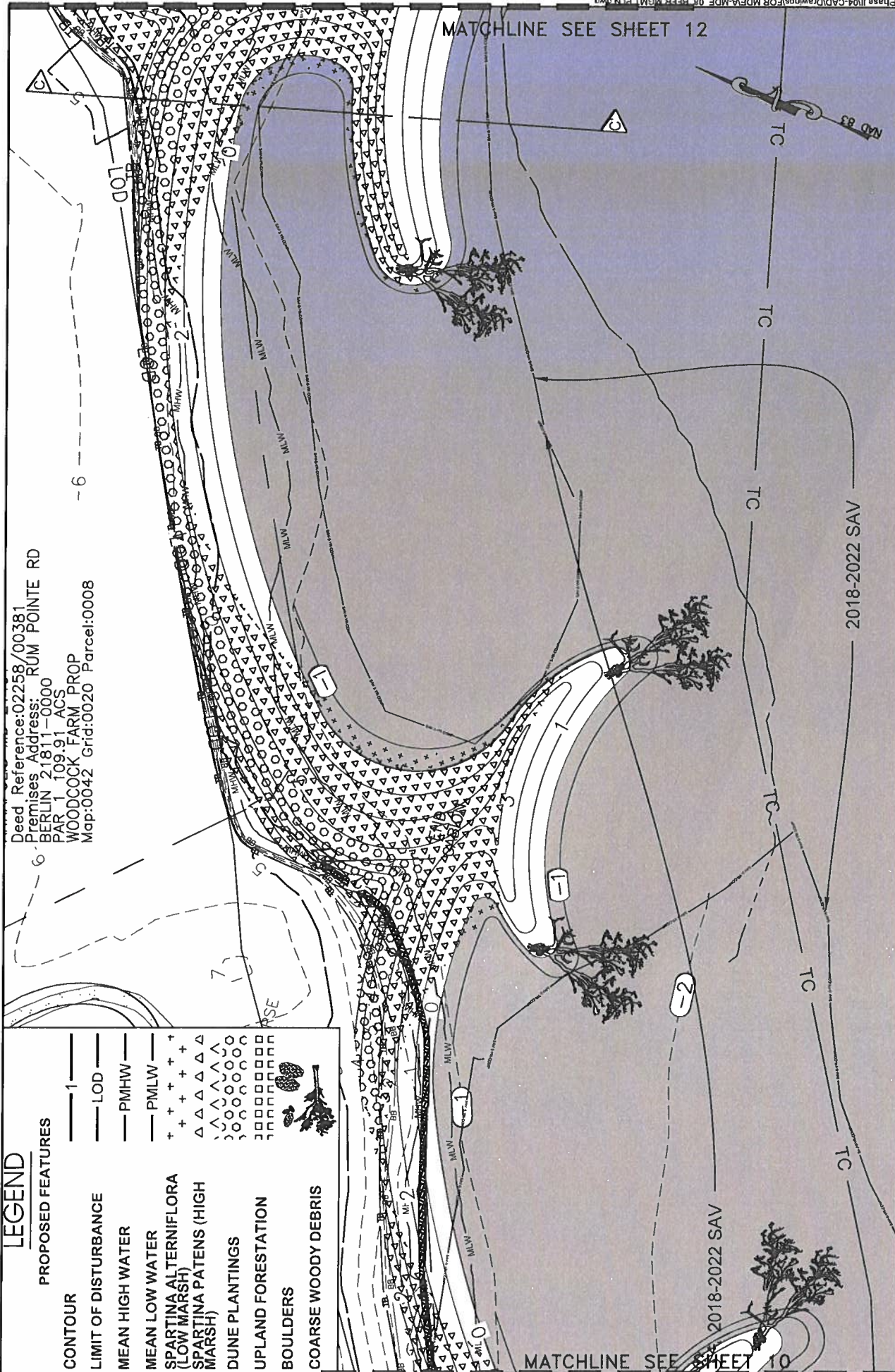
BUFFER MANAGEMENT PLAN
SINEPUXENT SOUTH DYNAMIC LIVING SHORELINE
11800 MARSH VIEW LANE, BERLIN, MD 21811
MAP 0042, GRID 0020, PARCEL 0008
1ST ELECTION DISTRICT, WORCESTER COUNTY

LEGEND

PROPOSED FEATURES

- CONTOUR
- LIMIT OF DISTURBANCE
- MEAN HIGH WATER
- MEAN LOW WATER
- SPARTINA ALTERNIFLORA (LOW MARSH)
- SPARTINA PATENS (HIGH MARSH)
- DUNE PLANTINGS
- UPLAND FORESTATION
- BOULDERS
- COARSE WOODY DEBRIS

Deed Reference: 02258/00381
 Premises Address: RUM POINTE RD
 BERLIN 21811-0000
 PAR 1 109.91 ACS
 WOODCOCK FARM PROP
 Map: 0042 Grid: 0020 Parcel: 0008



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 A DESIGN/BUILD CO.
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Scale	AS SHOWN	J.H./J.K.
Drawn By	Approved By	D.W.
Sheet No.	11 Of 16	
Project No.	21-032	
Proposal No.	...	

BUFFER MANAGEMENT PLAN
SINEPUXENT SOUTH DYNAMIC LIVING SHORELINE
 11800 MARSH VIEW LANE, BERLIN, MD 21811
 MAP 0042, GRID 0020, PARCEL 0008
 1ST ELECTION DISTRICT, WORCESTER COUNTY

January 20, 2023

MATCHLINE SEE SHEET 12

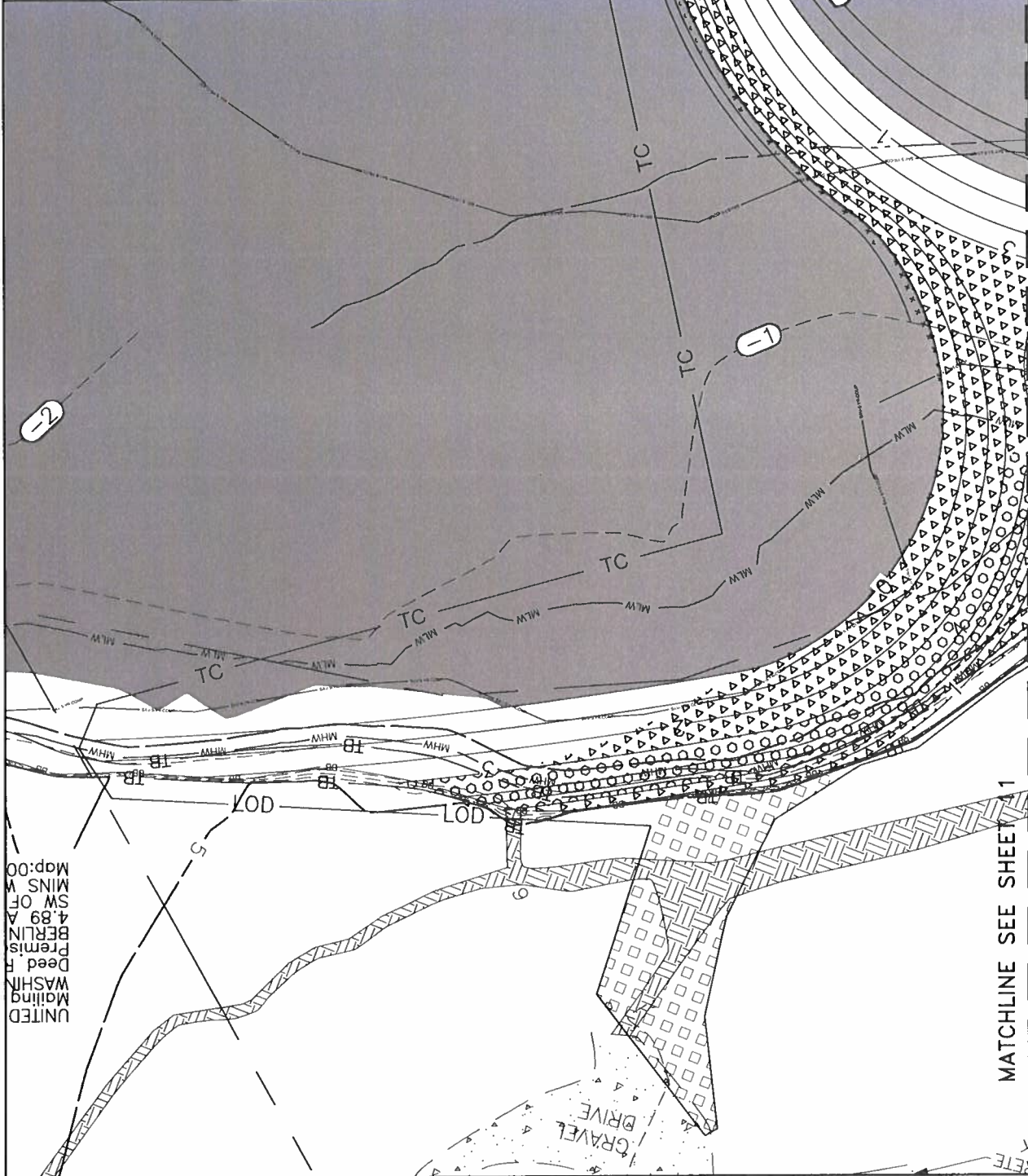
MATCHLINE SEE SHEET 10

UNITED FARMERS ASSOCIATION
 DEED, FARM, WASHINGTON
 PREMISES, 4.89 ACRES
 SW OF CORNER
 MINNS WASH
 Map:00

LEGEND

PROPOSED FEATURES

- CONTOUR — 1 —
- LIMIT OF DISTURBANCE — LOD —
- MEAN HIGH WATER — PMHW —
- MEAN LOW WATER — PMLW —
- SPARTINA ALTERNIFLORA (LOW MARSH) + + + + +
- SPARTINA PATENS (HIGH MARSH) Δ Δ Δ Δ Δ
- DUNE PLANTINGS ^ ^ ^ ^ ^
- UPLAND FORESTATION ○ ○ ○ ○ ○
- BOULDERS □ □ □ □ □
- COARSE WOODY DEBRIS [Symbol]



Scale	AS SHOWN	AS SHOWN
Drawn By	J.H.J.K.	J.H.J.K.
Approved By	D.W.	D.W.
Sheet No.	12 Of 16	12 Of 16
Project No.	21-032	21-032
Proposal No.	...	...

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PLAN
 SCALE: 1"=50'

50' 0 50'

SCALE: 1"=50'

WOODY MATERIAL ANCHORING (TYP.) - PLAN VIEW



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January 20, 2023

Scale	AS SHOWN	PROJECT DETAILS
Drawn By	J.H./J.K.	
Approved By	D.W.	
Sheet No.	13 Of 16	
Project No.	21-032	
Proposed No.	...	

SINEPUXENT SOUTH DYNAMIC LIVING SHORELINE

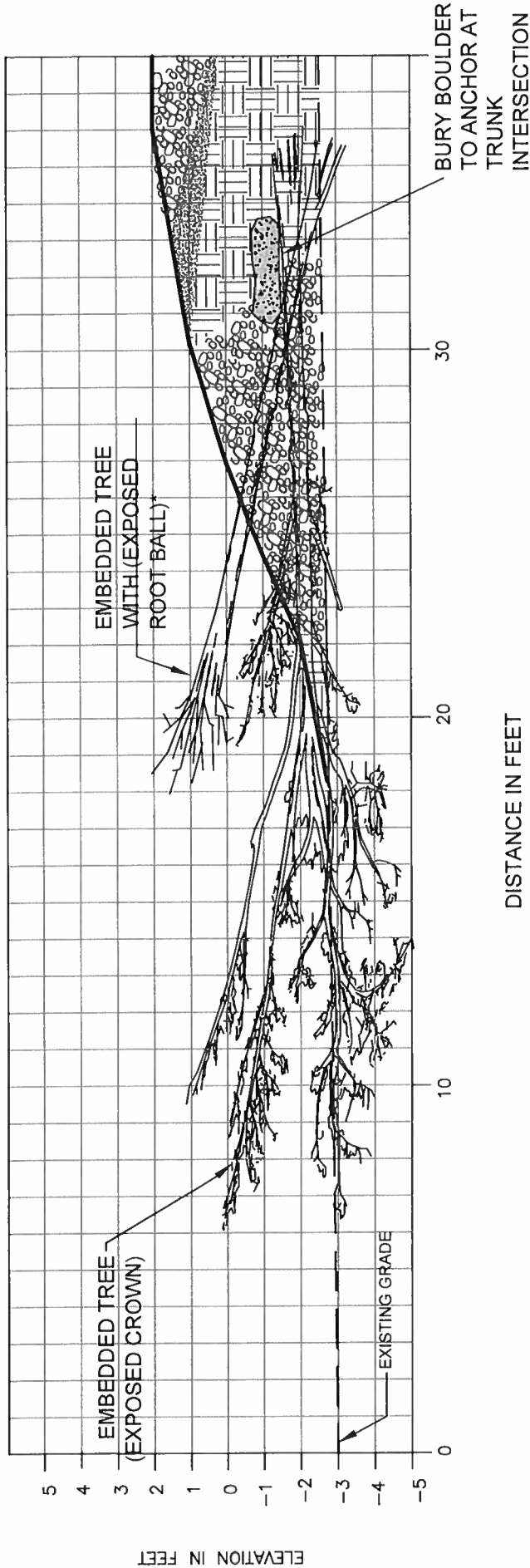
11800 MARSH VIEW LANE, BERLIN, MD 21811

MAP 0042, GRID 0020, PARCEL 0008

1ST ELECTION DISTRICT, WORCESTER COUNTY

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WOODY MATERIAL ANCHORING (TYP.) - PROFILE VIEW



*NOTE: THE EMBEDDED TREE WITH EXPOSED ROOT BALL IS SET AT THE EXISTING GRADE. THIS DETAIL SHOWS THE ROOT BALL SLIGHTLY ELEVATED IN ORDER TO DISPLAY BOTH TREES. SEE PLAN VIEW FOR ALIGNMENT.

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LANDSCAPE ARCHITECTURE ♦ ECOLOGICAL RESTORATION

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TEL 410-848-3211 FAX 410-848-2138

January 20, 2023	
PROJECT DETAILS	
Scale	AS SHOWN
Drawn By	J.H./J.K.
Approved By	D.W.
Sheet No.	14 OF 16
Project No.	21-032
Proposed No.	...
SINEPUXENT SOUTH DYNAMIC LIVING SHORELINE	
11800 MARSH VIEW LANE, BERLIN, MD 21811	
MAP 0042, GRID 0020, PARCEL 0008	
1ST ELECTION DISTRICT, WORCESTER COUNTY	

PROJECT DATA TABLES

Feature	Existing	Proposed	Difference
<i>Spartina Patens</i> - High Marsh (SF)	0	35,270	+35,270
<i>Spartina Alterniflora</i> - Low Marsh (SF)	0	2,137	+2,137
Total Tidal Wetlands (SF)	9,052	37,407	+28,355
Shoreline at MHW (LF)	1,453	2,675	+1,222

Year	Permanent Impact (SF)	Temporary Impact (SF)
2018	no data	no data
2019	no data	no data
2020	17,459	63,306
2021	23,333	100,682
2022	no data	no data

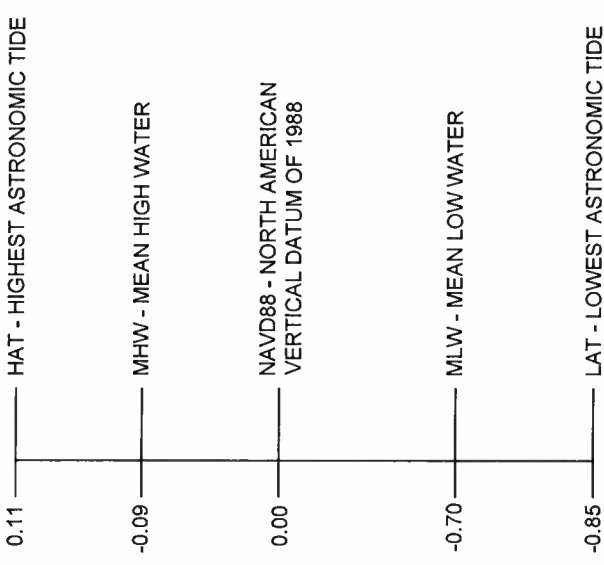
NOTES:

PERMANENT IMPACTS ARE AREAS WHERE PROPOSED SAND, GRAVEL, COBBLE, OR BOULDER FILL OVERLAPS MAPPED SAV BEDS.

DATUM TRANSFORMATIONS

ELEVATIONS ON THESE PLANS ARE REFERENCED TO NAVD88 TO BE IN AGREEMENT WITH THE CONSTRUCTION PLANS. TO CONVERT TO THE MLW DATUM, ADD 0.70 FT TO ALL ELEVATIONS.

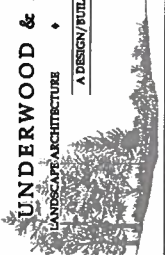
DATA IN FT FROM NOAA GAUGE 8570691, BUNTINGS BRIDGE MD



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LANDSCAPE ARCHITECTURE ♦ ECOLOGICAL RESTORATION

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Scale	AS SHOWN
Drawn By	J.H.J./K.
Approved By	D.W.
Sheet No.	15 OF 16
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Proposal No.	...

January 20, 2023

PROJECT DATA TABLES

SINEPUXENT SOUTH DYNAMIC LIVING SHORELINE

11800 MARSH VIEW LANE, BERLIN, MD 21811

MAP 0042, GRID 0020, PARCEL 0008

1ST ELECTION DISTRICT, WORCESTER COUNTY

PLANTING SCHEDULE

Planting Zone	Symbol	Total Area (Ft²)	Common Name	Scientific Name	Type	Wetland Indicator Status	Size	Distribution	Avg Spacing (ft)	Quantity	Credit Area (SF per plant)	Total Credit Area (SF)	Description
Lowmarsh Cordgrass	Pluses	2,137	Lowmarsh Cordgrass	<i>Spartina alterniflora</i>	SAV	OBL	Gal	Random	1.5	950	2	1900	Between PMLW and PMHW.
Highmarsh Cordgrass	Triangles	35,270	Highmarsh Cordgrass	<i>Spartina patens</i>	SAV	FACW+	Gal	Random	1.5	15,676	2	31352	Between PMHW to proposed elevation 3 ft NAVD88 (3.7 ft MLW)
Dune	Hexagons	8,450	Evening primrose	<i>Oenothera humifusa</i>	Herbaceous	FACU	Qt	Random	5	49	2	98	All newly created areas above elevation 3 ft NAVD88 (3.7 ft MLW)
			Beach plum ***	<i>Prunus maritima</i>	Shrub	UPL	2-3'	Random	8	19	50	950	
			Bitter panicgrass	<i>Panicum amarum</i>	Herbaceous	FACU-	Qt	Random	5	49	2	98	
			American beachgrass	<i>Ammophila brevifolula</i>	Herbaceous	FACU	Qt	Random	5	49	2	98	
			Early Low Blueberry	<i>Vaccinium Pallidum</i>	Shrub	N/A	1-2'	Random	8	19	50	950	
			Creeping Juniper	<i>Juniperus Horizontalis</i>	Shrub	FACU	1-2'	Random	8	19	50	950	
			Prickly pear	<i>Opuntia humifusa</i>	Herbaceous	N/A	Qt	Random	5	49	2	98	
			Christmas Fern	<i>Polystichum acrostichoides</i>	Herbaceous	-	Qt	Random	8	4	2	8	
			Coastal Wood Fern	<i>Dryopteris arguta</i>	Herbaceous	-	Qt	Random	8	4	2	8	
			Creeping Phlox	<i>Phlox stolonifera</i>	Herbaceous	-	Qt	Random	8	4	2	8	
Upland Forestation	Squares	2,742	Virginia Chain Fern	<i>Woodwardia virginica</i>	Herbaceous	-	Qt	Random	8	4	2	8	Primarily the upland canopy area impacted by construction access.
			Wild Bergamot	<i>Monarda fistulosa</i>	Herbaceous	-	Qt	Random	8	4	2	8	
			Mountain Laurel	<i>Kalmia latifolia</i>	Shrub	-	Gal	Random	8	4	50	200	
			Sheep Laurel	<i>Kalmia augustifolia</i>	Shrub	-	Gal	Random	8	4	50	200	
			Winterberry	<i>Ilex verticillata</i>	Shrub	-	Gal	Random	8	4	50	200	
			American Holly	<i>Ilex opaca</i>	Tree	-	2-3'	Random	12	2	100	200	
			Black Chokeberry	<i>Prunus virginiana</i>	Tree	-	2-3'	Random	12	2	100	200	
			Southern Red Oak	<i>Quercus falcata</i>	Tree	-	2-3'	Random	12	2	100	200	
			Total Area of Disturbed Canopy (SF)		2,742	Total Mitigation Credit Required (SF)		2,742	Total Credit Area (SF)		37,734	1376%	
Critical Area Mitigation Calculations													

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