

**U.S. Army Corps
of Engineers**
Baltimore District
PN-21-21

Public Notice

**In Reply to Application Number
NAB-2020-61098-P05 (Town of Oxford/Coastal Resiliency)**

Comment Period: June 11, 2021 to July 2, 2021

THE PURPOSE OF THIS PUBLIC NOTICE IS TO INFORM INTERESTED PARTIES OF THE PROPOSED ACTIVITY AND TO SOLICIT COMMENTS. NO DECISION HAS BEEN MADE AS TO WHETHER OR NOT A PERMIT WILL BE ISSUED AT THIS TIME.

This District has received an application for a Department of the Army permit pursuant to Section 10 of the Rivers and Harbors Act (33 USC 403) and Section 404 of the Clean Water Act (33 USC 1344), as described below:

APPLICANT:

Ms. Cheryl Lewis
Town of Oxford Administer
101 Market Street
Oxford, Maryland 21654

WATERWAY AND LOCATION OF THE PROPOSED WORK:

The proposed project is in the Tred Avon River along Strand Road, Oxford, Talbot County, Maryland. (38.694434°N; -76.170186°W)

OVERALL PROJECT PURPOSE:

The project purpose is to provide coastal flooding protection and/or shoreline restoration or stabilization for a portion of Strand Road and to protect four other nearby critical infrastructures within the Town of Oxford.

PROJECT DESCRIPTION:

The applicant is proposing to use nature-based solutions to stabilize and provide coastal flooding protection along 1,792 linear feet of shoreline at five shoreline areas by constructing 2,057 linear feet various shoreline stabilization methods as outlined below:

- a. Strand Beach living shoreline and islands, construction of:

- i. Three various size living breakwater islands (94' x 59'; 87' x 50'; and 85' x 49' going east to west) by depositing 1,078 cubic yards of sands and rock impacting 12,037 square feet of tidal waters, of which 3,665 square feet was occupied by submerged aquatic vegetation (SAV) in 2017, extending a maximum of 185-feet waterward from the approximate mean high water (MHW) shoreline and creating approximately 4,798 square feet of tidal marsh;
- ii. Two living headlands by depositing 1,155 cubic yards of stone and sand impacting 7,858 square feet of tidal waters, of which 1,444 square feet was occupied by SAV in 2017, extending a maximum of 118-feet waterward from the approximate MHW shoreline and creating approximately 3,003 square feet of tidal marsh; and
- iii. 949 linear feet of living shoreline and beach by depositing approximately 6,148 cubic yards of clean sloped sand fill impacting 26,147 square feet of tidal waters, of which 26,589 square feet was occupied by SAV in 2017, extending a maximum of 77-feet waterward of the approximate MHW shoreline and creating 11,032 of tidal marsh.

Total permanent impacts to waters of the United States at the Strand Beach location would be 72,631 square feet, of which 31,698 square feet was occupied by SAV in 2017.

b. Town Creek Living Shoreline, construction of:

- i. Two living headlands by depositing 153 cubic yards of a well graded mixture of stone and sand impacting 1,757 square feet of tidal waters, extending a maximum of 70-feet waterward from the approximate MHW shoreline and creating 954 square feet of tidal marsh; and
- ii. A living shoreline and beach along approximately 130 linear feet of shoreline by depositing 443 cubic yards of sand impacting 3,038 square feet of tidal waters, extending approximately 33-feet waterward from the approximate MHW shoreline and creating 2,762 square feet of tidal marsh.

c. Tred Avon Yacht Club Living Shoreline, construction of:

- i. Four various size living headlands by depositing 245 cubic yards of a well graded mixture of sand and stone in 3,254 square feet of tidal waters, extending a maximum of 39-feet from the approximate MHW shoreline, and creating 2,426 square feet of tidal marsh.

- d. Oxford -Bellevue Ferry Terminal Headlands, construction of:
 - i. One headland point measuring approximately 56-feet-long by 42-feet-wide by depositing 163 cubic yards of well-graded sand and stone impacting 1,822 square feet of tidal waters, extending a maximum 51-feet waterward of the approximate MHW shoreline and creating 1,155 square feet of tidal marsh.
- e. Lovers Lane Headlands, construction of:
 - i. Two living headlands (112' x 63' and 106' x 57') by depositing 1,317 cubic yards of well-graded stone and sand impacting 10,668 square feet of tidal waters extending a maximum of 89 feet from the approximate MHW shoreline, creating 5,451 square feet of tidal marsh.

The work is proposed in accordance with the enclosed plans.

LEAD FEDERAL AGENCY:

The U.S. Army Corps of Engineers, as the lead federal agency, is responsible for all coordination pursuant to applicable federal authorities.

APPLICANT'S PROPOSED AVOIDANCE, MINIMIZATION, AND COMPENSATORY MITIGATION:

Steps were taken to ensure avoidance and minimization of impacts to waters of the United States to the maximum extent practicable. No impacts to tidal wetland are proposed. In addition, the conceptual plans were modified to minimize impacts to existing SAV habitat and limit waterward construction limits. The applicant has looked at three design alternatives (five connected breakwaters, five detached breakwaters) and have refined to the current, least impactful design (three detached breakwaters), which has reduced the initial proposed impacts to sub-tidal waters by 11,019 square feet, of which 3,148 square feet was occupied by SAV in 2017.

CORPS EVALUATION REQUIREMENTS:

This project will be evaluated pursuant to Corps Regulatory Program Regulations (33 CFR Parts 320-332). The decision whether to issue a permit will be based on an evaluation of the probable impacts, 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 reasonable 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, economic, aesthetics, general environmental concerns, wetlands, cultural values, fish and wildlife values, flood hazards, flood plain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, and consideration of property ownership and in general, the needs and welfare of the people. The evaluation of the impact of this project will also include application of the Clean Water Act Section 404(b)(1) Guidelines promulgated by the Administrator, United States Environmental Protection Agency.

ENDANGERED SPECIES:

A preliminary review of this application indicates that the proposed work is not likely to adversely affect federally listed threatened or endangered species or their critical habitat, pursuant to Section 7 of the Endangered Species Act, as amended. As the evaluation of this application continues, additional information may become available which could modify this preliminary determination.

ESSENTIAL FISH HABITAT:

The Magnuson-Stevens Fishery Conservation and Management Act (MSFCMA), as amended by the Sustainable Fisheries Act of 1996 (Public Law 04-267), 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), including species of concern, life cycle habitat, or Habitat Areas of Particular Concern. The project site lies in or adjacent to EFH as described under MSFCMA for managed species under the MSFCMA. The Baltimore District has made a preliminary determination that the project will not have a substantial adverse effect on EFH. The Baltimore District has made a preliminary determination that mitigative measures are not required to minimize adverse effects on EFH at this time. This determination may be modified if additional information indicates otherwise.

HISTORIC RESOURCES:

Pursuant to Section 106 of the National Historic Preservation Act of 1966 and applicable guidance, the Corps has reviewed the latest published version of the National Register of Historic Places and initially determined that no registered properties listed as eligible for inclusion, therein, are located at the site of the proposed work. The Corps has made the preliminary determination that the proposed project would have no effect on historic properties. The Corps final eligibility and effect determination will be based on

coordination with the State Historic Preservation Office as appropriate and required, and with full consideration given to the proposed undertaking's potential direct and indirect effects on historic properties within the Corps' identified permit area.

TRIBAL RESOURCES:

Section 106 of the National Historic Preservation Act also requires federal agencies to consult with federally recognized American Indian tribes that attach religious and cultural significance to historic properties that may be affected by the agency's undertaking. Corps Tribal Consultation Policy mandates an open, timely, meaningful, collaborative, and effective deliberative communication process that emphasizes trust, respect, and shared responsibility. The policy further emphasizes that, to the extent practicable and permitted by law, consultation works toward mutual consensus and begins at the earliest planning stages before decisions are made and actions taken. The Corps final eligibility and effect determination will be based on coordination with interested tribes, in accordance with the Corps current tribal standard operating procedures as appropriate and required, and with full consideration given to the proposed undertaking's potential direct and indirect effects on tribal resources.

MODIFICATION OF CIVIL WORKS PROJECTS: 33 USC 408 (SECTION 408):

All Section 408 proposals will be coordinated internally at USACE. The Section 408 decision will be issued along with the Section 404 and/or Section 10 decision. Please see the following link for more information regarding Section 408:
<https://www.nab.usace.army.mil/section408/>.

WATER QUALITY CERTIFICATION:

The applicant is required to obtain a water quality certification in accordance with Section 401 of the Clean Water Act.

COASTAL ZONE MANAGEMENT PROGRAMS:

Where applicable, the applicant has certified in this application that the proposed activity complies with and will be conducted in a manner 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 applicant must obtain any state or local government permits which may be required.

SUBMISSION OF 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 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 provided will become part of the public record for this action and are subject to release to the public through the Freedom of Information Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

Written comments concerning the work described above related to the factors listed above or other pertinent factors must be received by the U.S. Army Corps of Engineers, Baltimore District within the comment period specified above through postal mail at the address below or electronic submission to the project manager email address below. Written comments should reference the Application Number (NAB-2020-61098-P05 (Town of Oxford/Coastal Resiliency)).

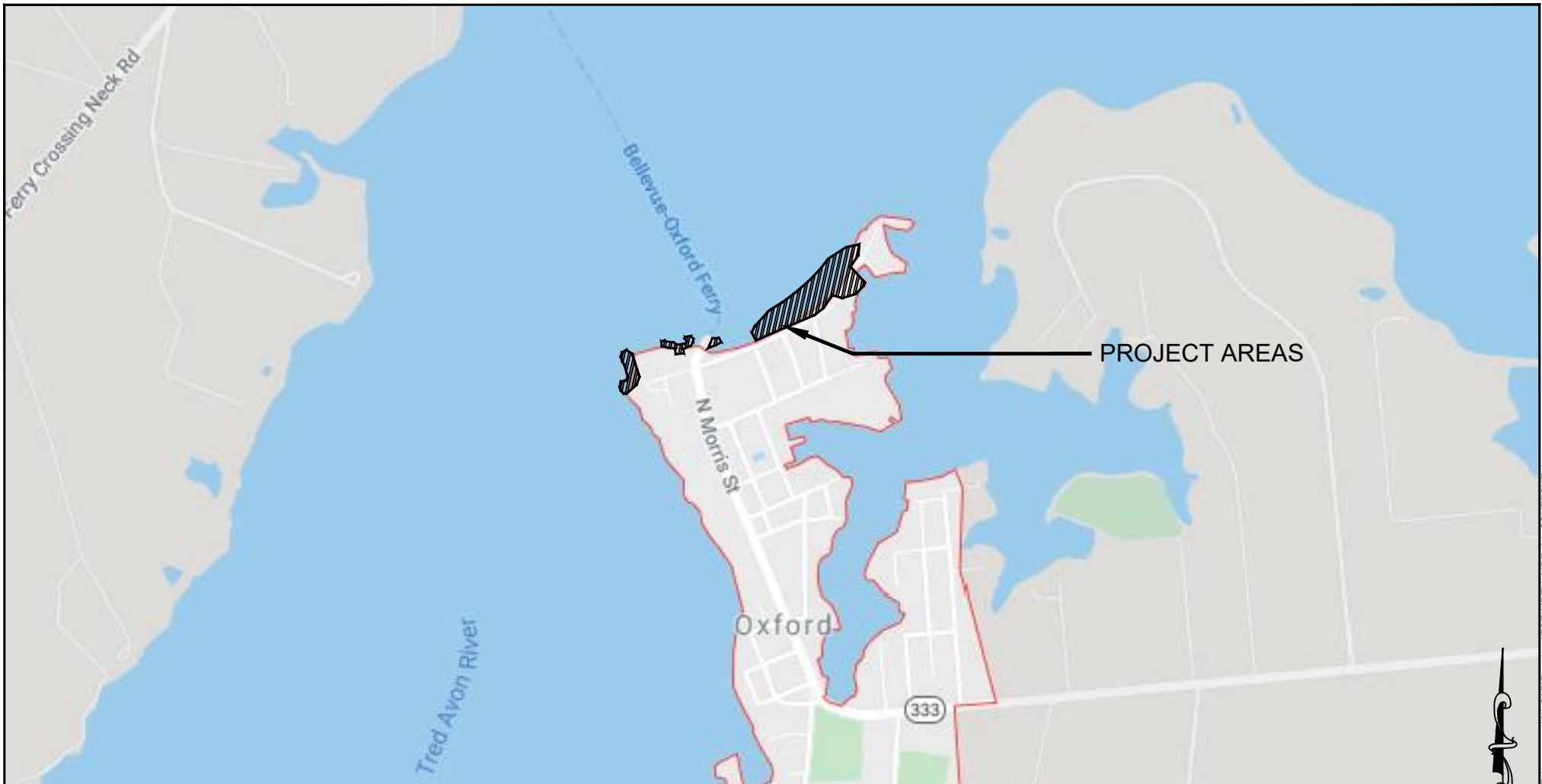
PUBLIC HEARING REQUESTS:

Any person who has an interest which may be adversely affected by the issuance of this permit may request a public hearing. The request, which must be in writing, must be received within the comment period as specified above to receive consideration. Also, it must clearly set forth the interest which may be adversely affected by this activity and the manner in which the interest may be adversely affected. The public hearing request may be submitted by electronic mail or mailed to the following address:

Marion Gall
(marion.gall@usace.army.mil)
U.S. Army Corps of Engineers
1631 South Atherton Street
Suite 101
State College, Pennsylvania 16801

It is requested that you communicate this information concerning the proposed work to any persons known by you to be interested, who did not receive a copy of this notice.

General information regarding the Corps' permitting process can be found on our website at <https://www.nab.usace.army.mil/Missions/Regulatory.aspx>. This public notice has been prepared in accordance with Corps implementing regulations at 33 CFR 325.3. If you have any questions concerning this specific project or would like to request a paper copy of this public notice, please contact Ms. Marion Gall at (814) 235-1761 or marion.gall@usace.army.mil. This public notice is issued by the Chief, Regulatory Branch.



VICINITY MAP



Code File: \\25.61.130.194\Shared\006-Projects\Oxford Coastal Resilience Shoreline Enhancement\04-CAD\Drawings\FOR MDEA-MDE_01_COVERSHT.dwg

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LANDSCAPE ARCHITECTURE ♦ ECOLOGICAL RESTORATION

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tel. 410-849-3211 fax. 410-849-2136

SHEET 1 OF 29

JUNE 9, 2021

VICINITY MAP AND AERIAL PHOTO

OXFORD COASTAL RESILIENCE SHORELINE ENHANCEMENT

COMMISSIONERS OF OXFORD
MAP 0400 , GRID 000OX , PARCEL 0677
3RD ELECTION DISTRICT, TALBOT COUNTY



CRITICAL AREA
IDA ZONE



PLAN SCALE: 1"=250'



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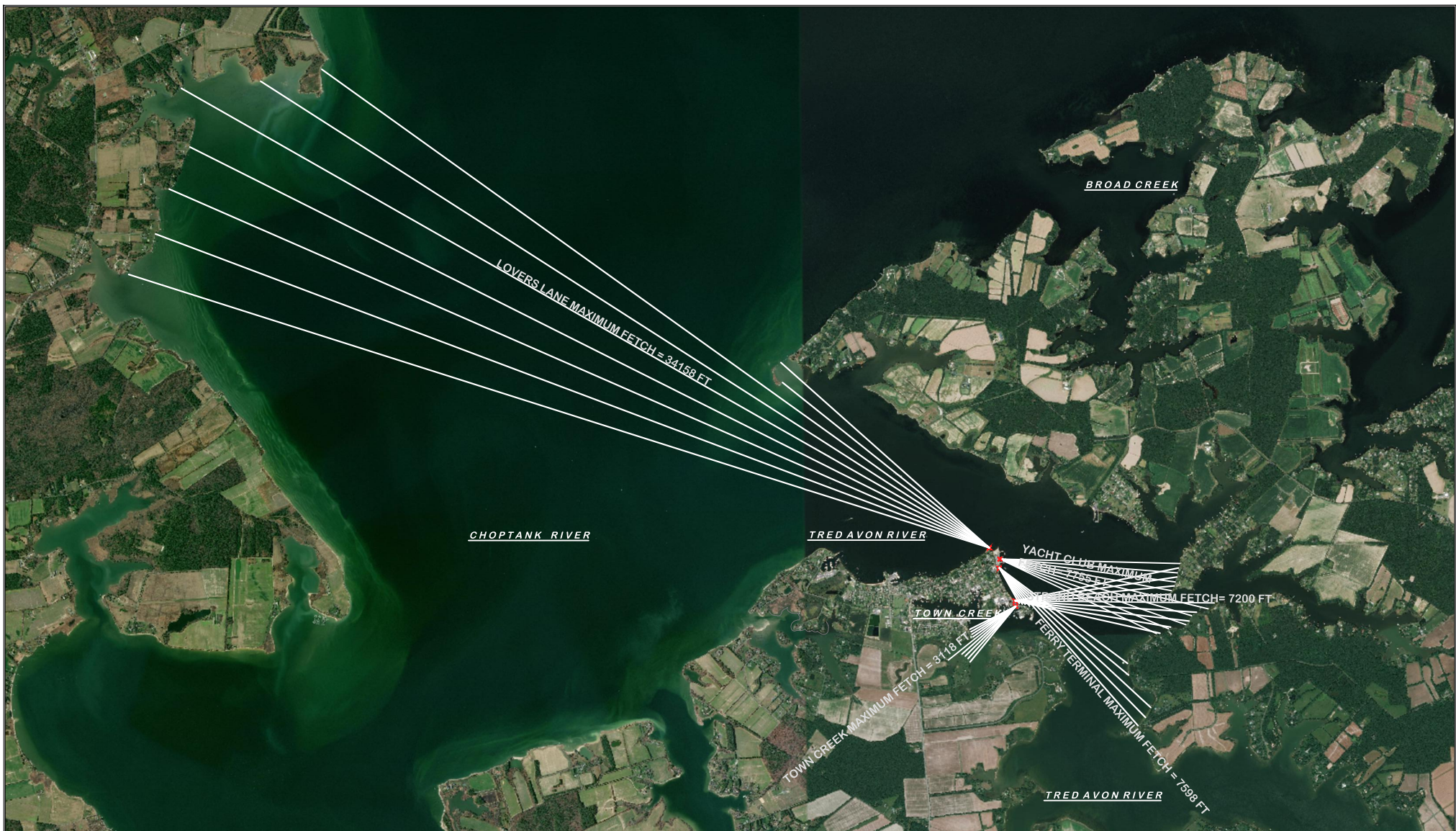
SHEET 2 OF 29

JUNE 9, 2021

PROJECT OVERVIEW WITH AERIAL

OXFORD COASTAL RESILIENCE SHORELINE ENHANCEMENT

COMMISSIONERS OF OXFORD
MAP 0400, GRID 000OX, PARCEL 0677
3RD ELECTION DISTRICT, TALBOT COUNTY



NOTES ON FETCH

EFFECTIVE FETCH CALCULATED AS THE AVERAGE OF 9 RADIALS SEPARATED BY 3 DEGREES CENTERED ON THE LONGEST FETCH PER USAGE SHORELINE PROTECTION MANUAL.

THIS FETCH DOES NOT ACCOUNT FOR ENERGY DISSIPATION BY PIER PILINGS AND NEARSHORE DIFFRACTION THAT WOULD REDUCE WAVE ENERGY.

PLAN

SCALE: 1"=5000'



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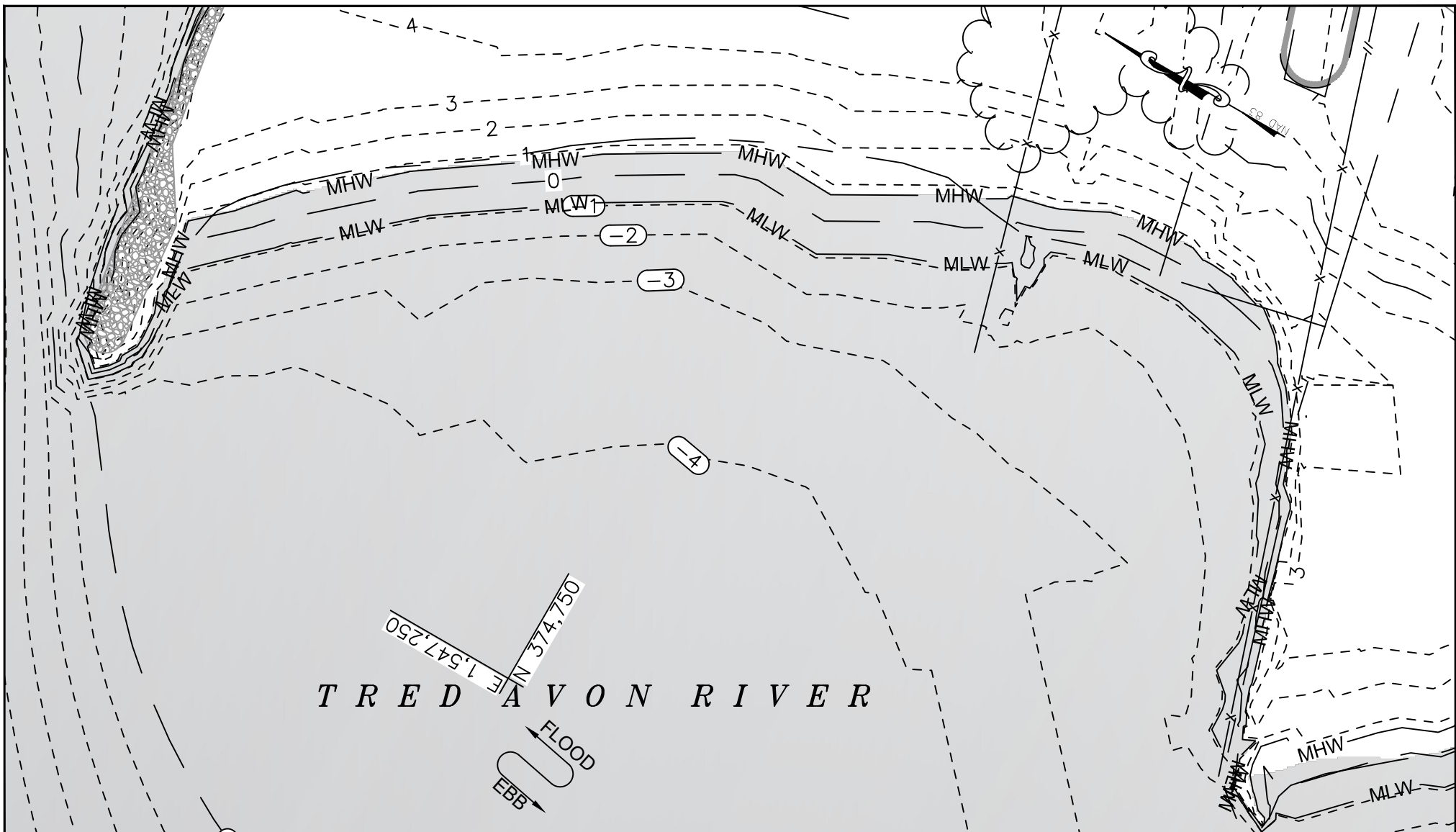
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JUNE 9, 2021

PROJECT FETCH CONDITIONS

OXFORD COASTAL RESILIENCE SHORELINE ENHANCEMENT

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LEGEND	
EXISTING FEATURES	
MINOR CONTOUR	---1---
MAJOR CONTOUR	---5---
MEAN HIGH WATER (COINCIDENT AT BULKHEAD)	—MHW—
MEAN LOW WATER	—MLW—
TREE CANOPY / HEDGEROW	~~~~~
PROPERTY LINE	----
BULKHEAD	=====
REVETMENT / GROIN / SILL	

PLAN

SCALE: 1"=40'

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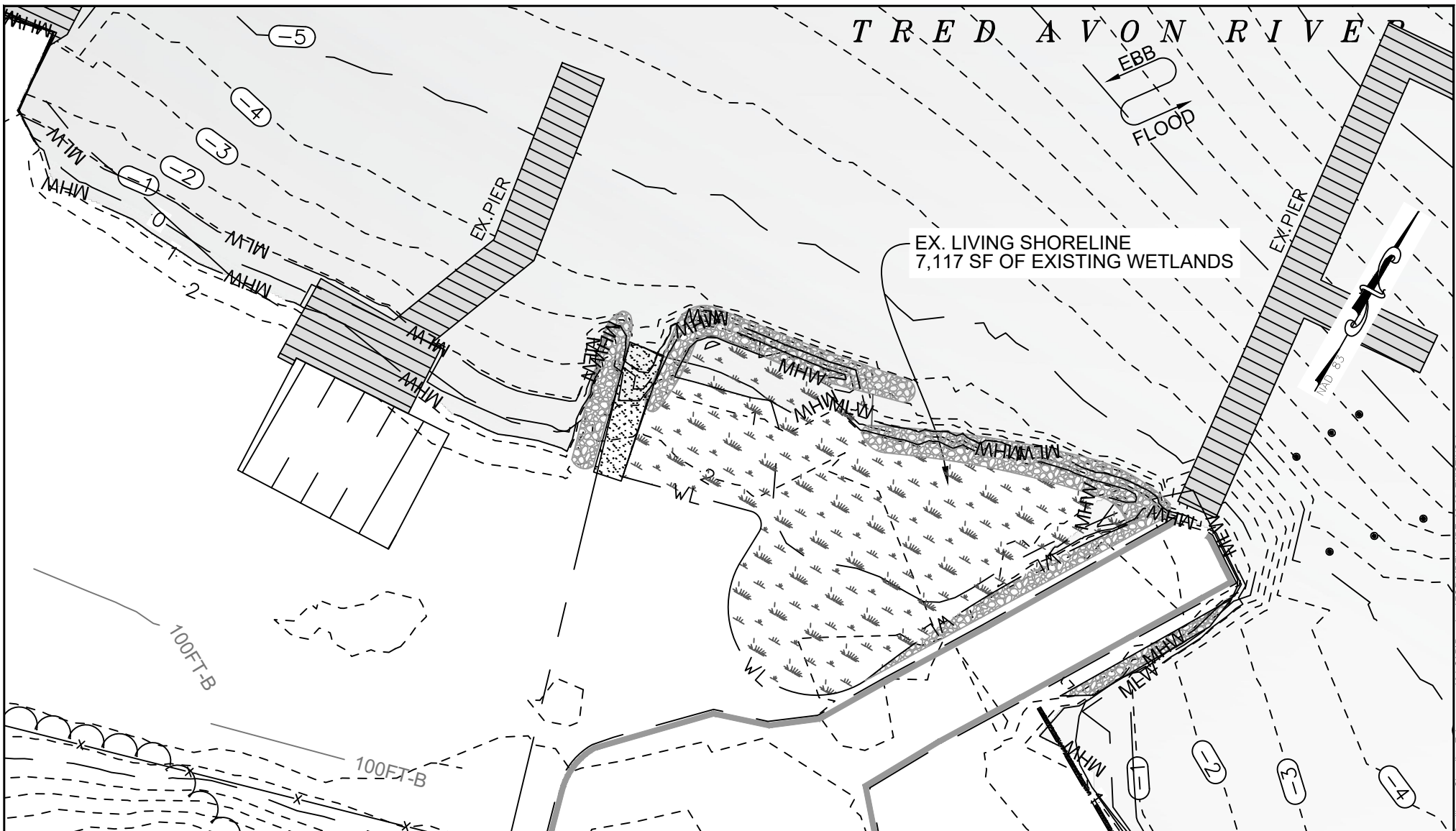
EXISTING CONDITIONS

OXFORD COASTAL RESILIENCE SHORELINE ENHANCEMENT

COMMISSIONERS OF OXFORD

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3RD ELECTION DISTRICT, TALBOT COUNTY



PLAN SCALE: 1"=40'

SHEET 5 OF 29

JUNE 9, 2021

LEGEND

EXISTING FEATURES

MINOR CONTOUR	---
MAJOR CONTOUR	---
MEAN HIGH WATER (COINCIDENT AT BULKHEAD)	MHW
MEAN LOW WATER	MLW
TREE CANOPY / HEDGEROW	~~~~~
PROPERTY LINE	---
BULKHEAD	=====
REVTMENT / GROIN / SILL	

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LANDSCAPE ARCHITECTURE

ECOLOGICAL RESTORATION

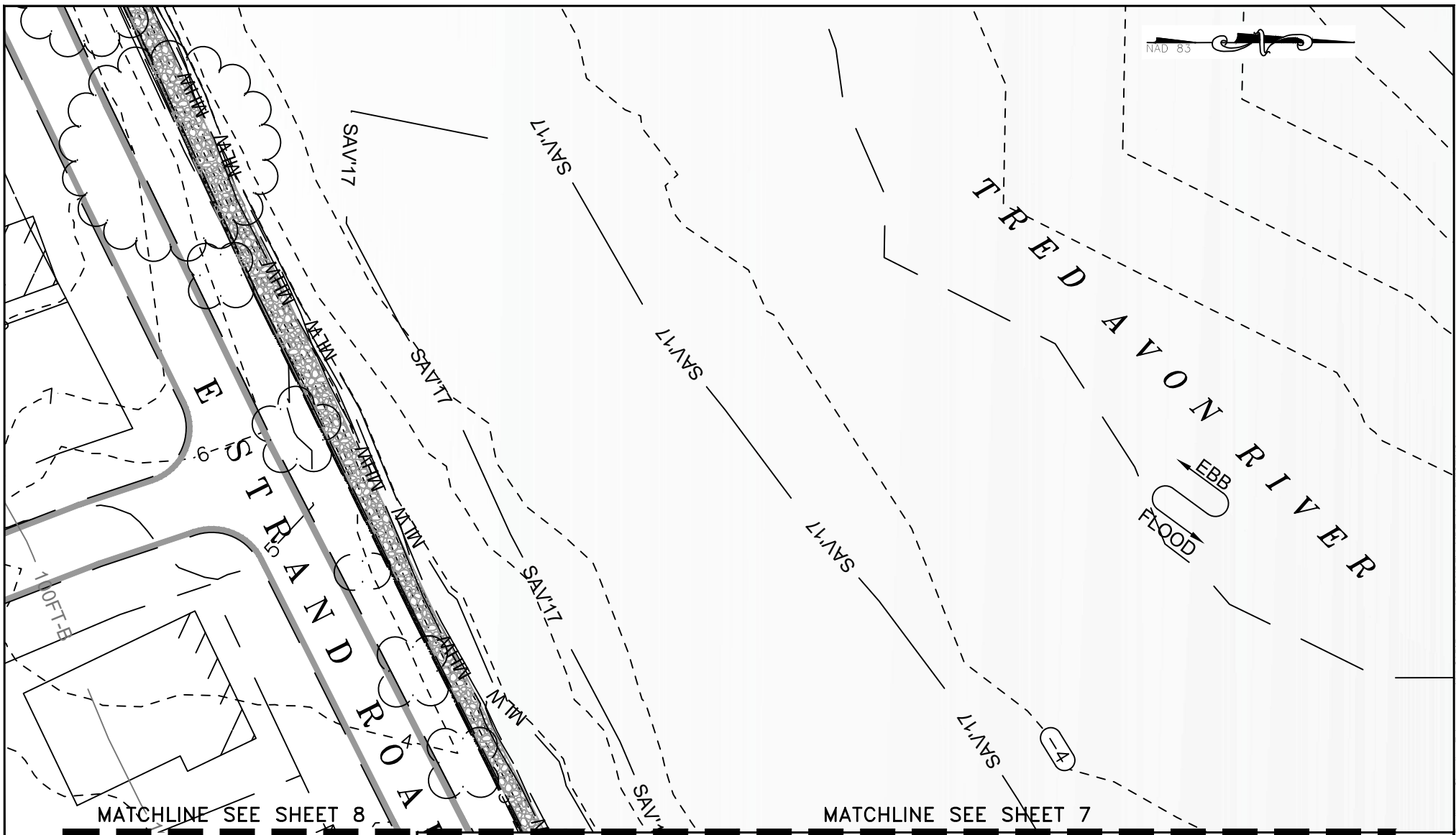
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EXISTING CONDITIONS

OXFORD COASTAL RESILIENCE SHORELINE ENHANCEMENT

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3RD ELECTION DISTRICT, TALBOT COUNTY



PLAN

SCALE: 1"=40'

SHEET 6 OF 29

JUNE 9, 2021

LEGEND

EXISTING FEATURES

MINOR CONTOUR	---
MAJOR CONTOUR	---
MEAN HIGH WATER (COINCIDENT AT BULKHEAD)	— MHW —
MEAN LOW WATER	— MLW —
TREE CANOPY / HEDGEROW	~~~~~
PROPERTY LINE	---
BULKHEAD	=====
REVETMENT / GROIN / SILL	=====

UNDERWOOD & ASSOCIATES

LANDSCAPE ARCHITECTURE

ECOLOGICAL RESTORATION

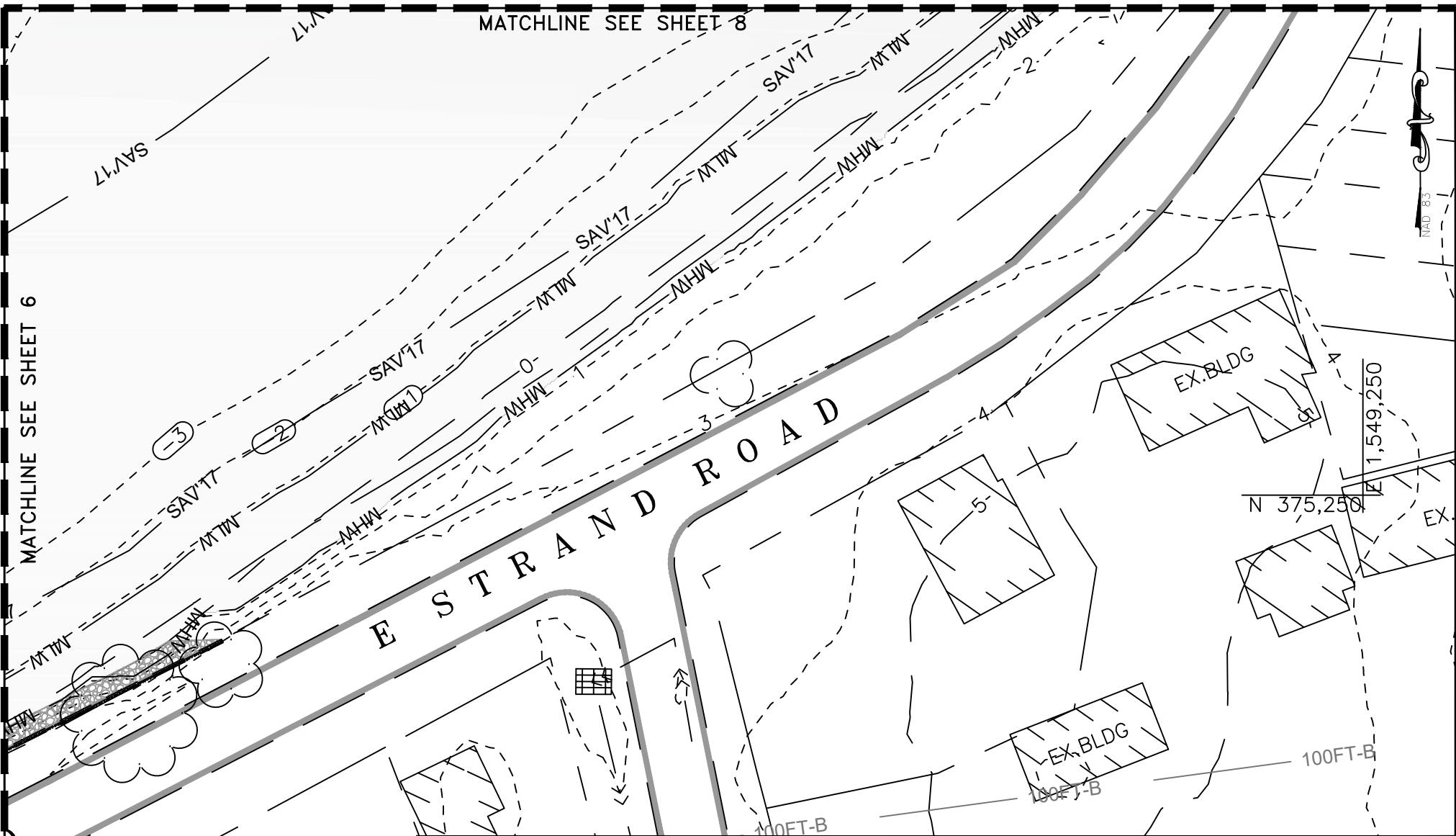
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EXISTING CONDITIONS

OXFORD COASTAL RESILIENCE SHORELINE ENHANCEMENT

COMMISSIONERS OF OXFORD
MAP 0400, GRID 0000X, PARCEL 0677
3RD ELECTION DISTRICT, TALBOT COUNTY



LEGEND

EXISTING FEATURES

MINOR CONTOUR	---
MAJOR CONTOUR	---
MEAN HIGH WATER (COINCIDENT AT BULKHEAD)	MHW
MEAN LOW WATER	MLW
TREE CANOPY / HEDGEROW	~~~~~
PROPERTY LINE	---
BULKHEAD	=====
REVETMENT / GROIN / SILL	

PLAN SCALE: 1"=40'

SHEET 7 OF 29

JUNE 9, 2021

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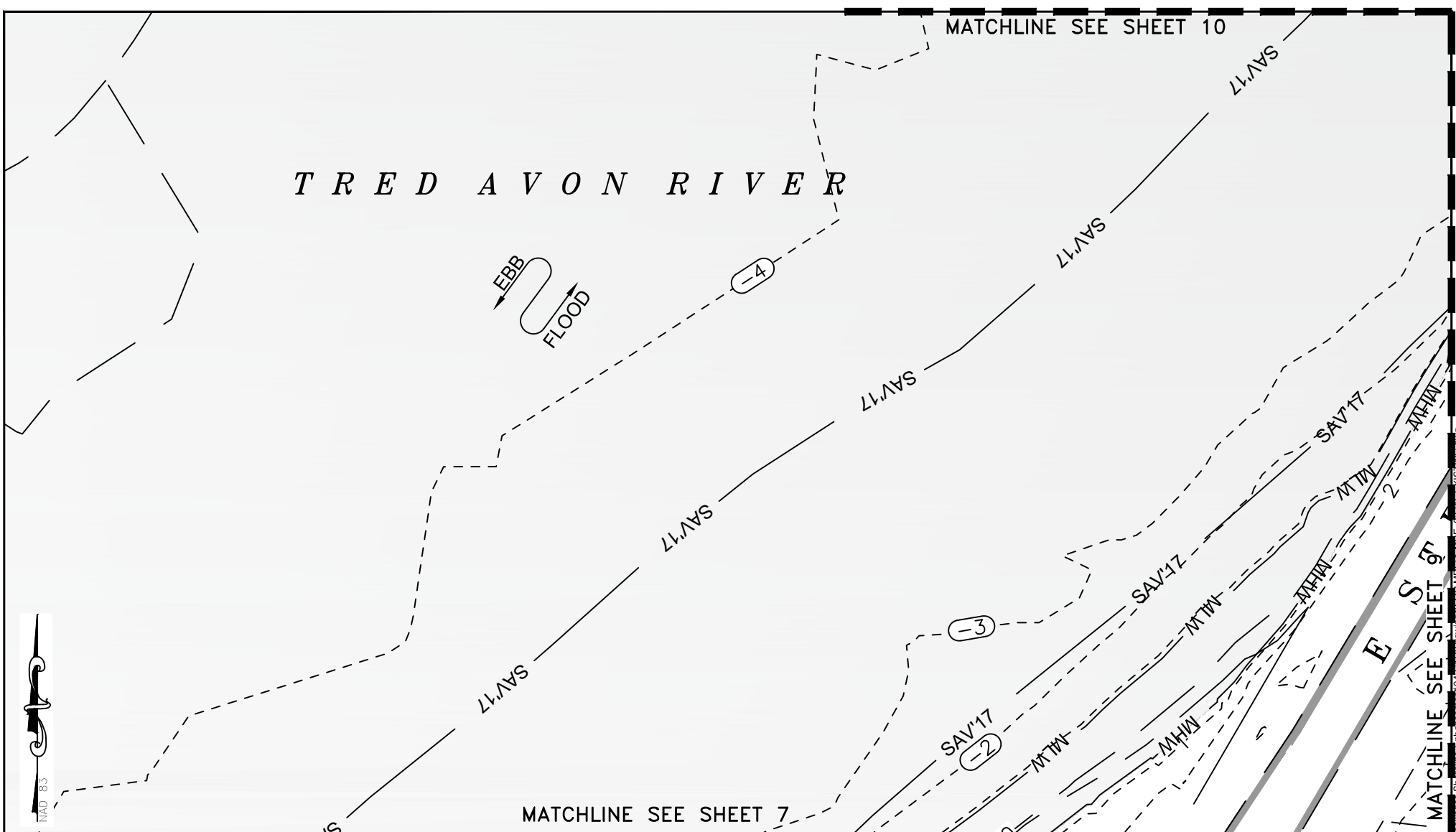


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3RD ELECTION DISTRICT, TALBOT COUNTY



LEGEND
EXISTING FEATURES

- | | |
|--|---------|
| MINOR CONTOUR | --- |
| MAJOR CONTOUR | --- |
| MEAN HIGH WATER (COINCIDENT AT BULKHEAD) | — MHW — |
| MEAN LOW WATER | — MLW — |
| TREE CANOPY / HEDGEROW | ~~~~~ |
| PROPERTY LINE | --- |
| BULKHEAD | ===== |
| REVETMENT / GROIN / SILL | |

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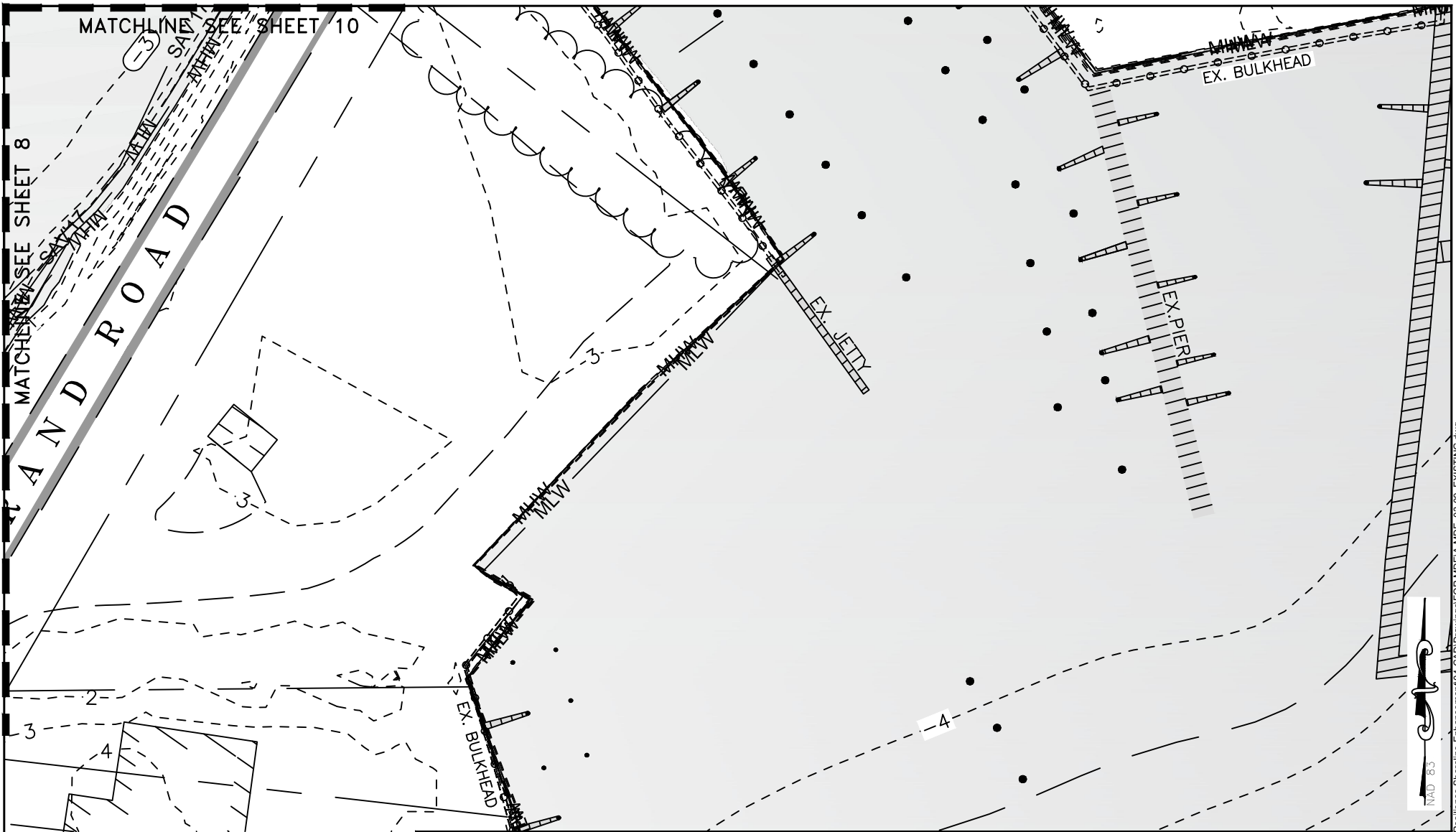
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EXISTING CONDITIONS

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3RD ELECTION DISTRICT, TALBOT COUNTY

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LEGEND
EXISTING FEATURES

- | | | |
|--|-------|-----|
| MINOR CONTOUR | --- | 1 |
| MAJOR CONTOUR | --- | 5 |
| MEAN HIGH WATER (COINCIDENT AT BULKHEAD) | --- | MHW |
| MEAN LOW WATER | --- | MLW |
| TREE CANOPY / HEDGEROW | ~~~~~ | |
| PROPERTY LINE | --- | |
| BULKHEAD | ===== | |
| REVTMENT / GROIN / SILL | | |



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PLAN SCALE: 1"=40'

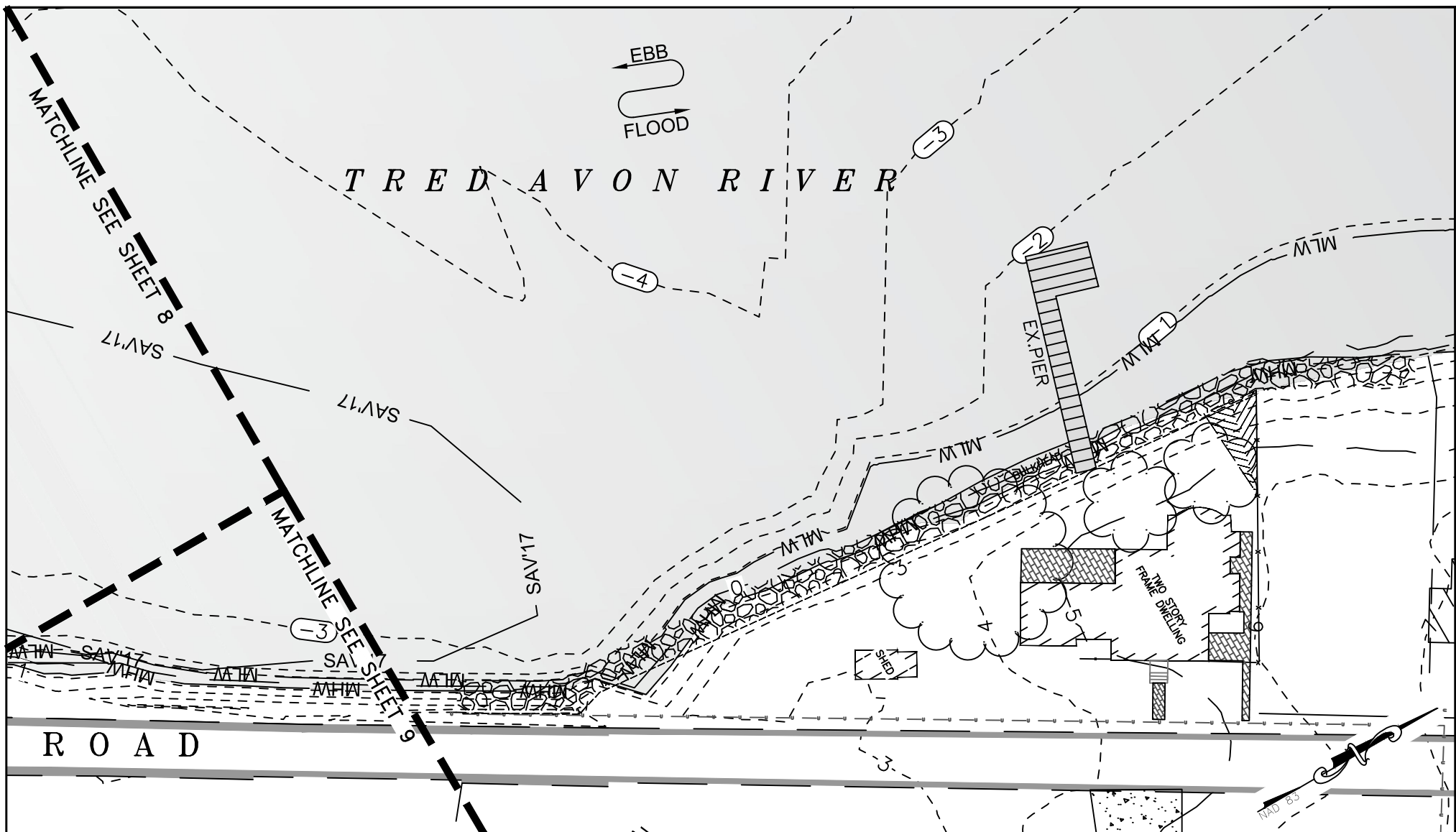
SHEET 9 OF 29

JUNE 9, 2021

EXISTING CONDITIONS

**OXFORD COASTAL
RESILIENCE SHORELINE
ENHANCEMENT**

COMMISSIONERS OF OXFORD
MAP 0400 , GRID 000OX , PARCEL 0677
3RD ELECTION DISTRICT, TALBOT COUNTY



LEGEND EXISTING FEATURES

MINOR CONTOUR	---
MAJOR CONTOUR	---
MEAN HIGH WATER (COINCIDENT AT BULKHEAD)	— MHW —
MEAN LOW WATER	— MLW —
TREE CANOPY / HEDGEROW	~~~~~
PROPERTY LINE	----
BULKHEAD	=====
REVTMENT / GROIN / SILL	

PLAN SCALE: 1"=40'

SHEET 10 OF 29

JUNE 9, 2021

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♦ ECOLOGICAL RESTORATION

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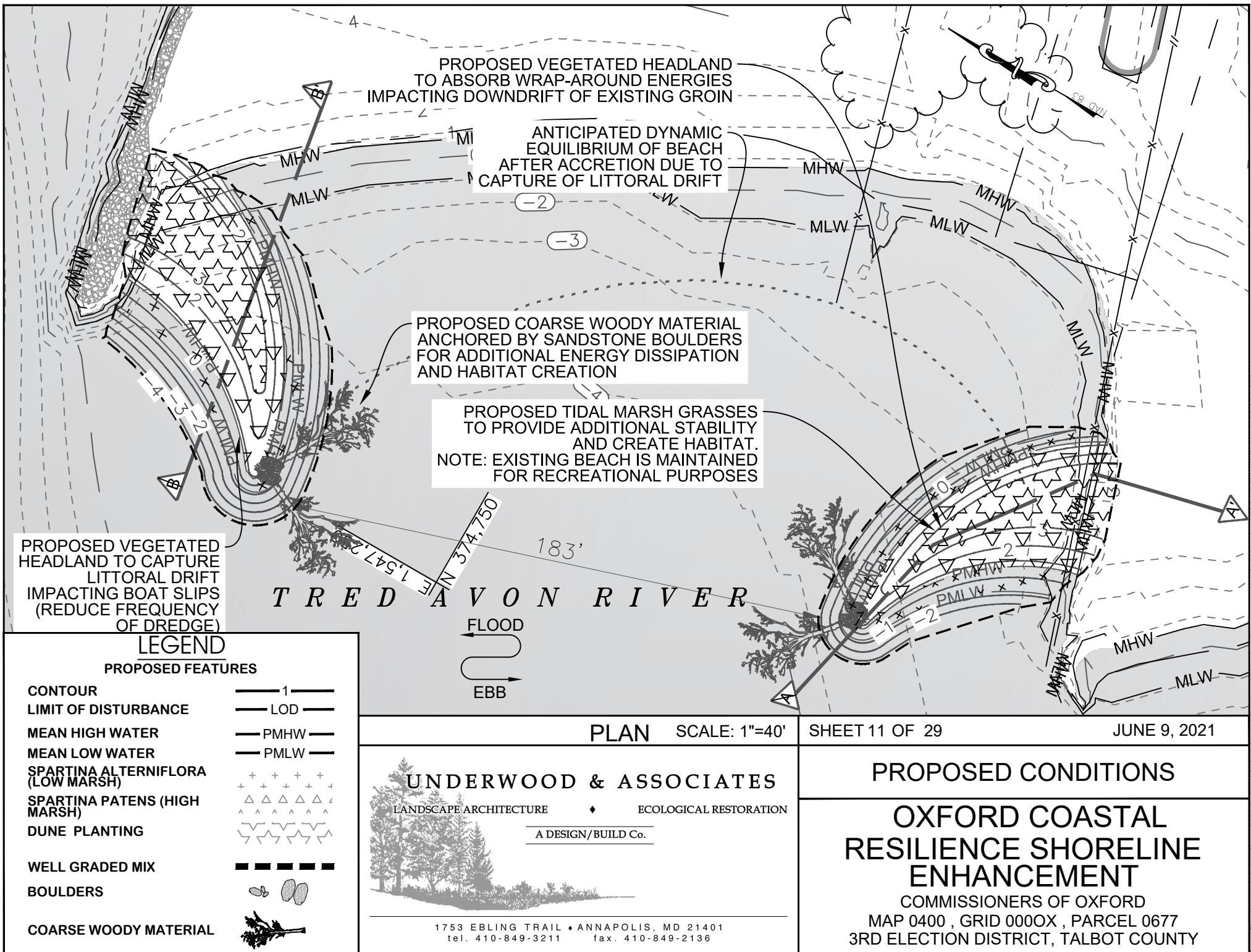


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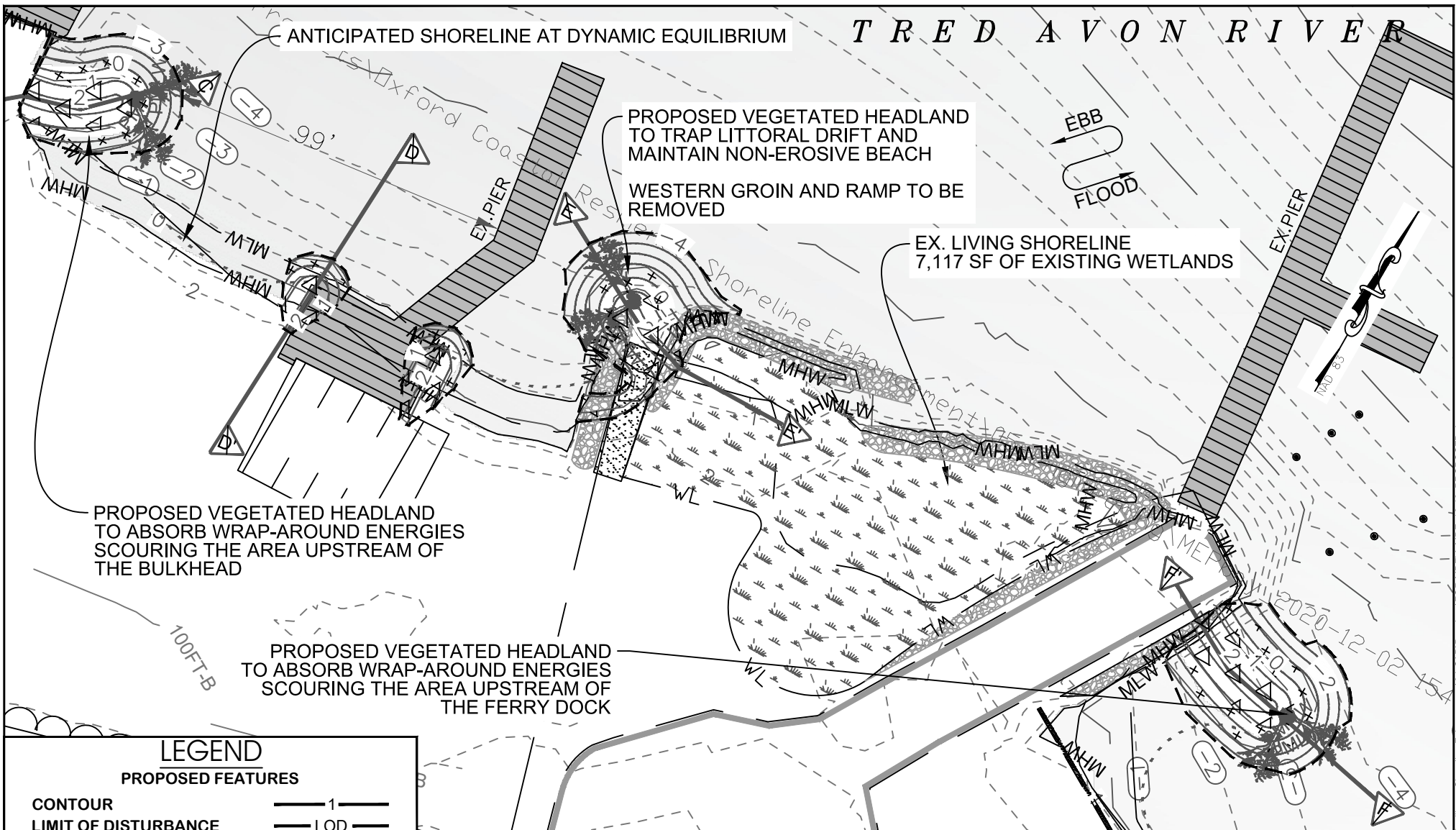
EXISTING CONDITIONS

OXFORD COASTAL RESILIENCE SHORELINE ENHANCEMENT

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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
DUNE PLANTING	~
WELL GRADED MIX	— — — — —
BOULDERS	●
COARSE WOODY MATERIAL	✶

PLAN SCALE: 1"=40'

SHEET 12 OF 29

JUNE 9, 2021

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LANDSCAPE ARCHITECTURE

ECOLOGICAL RESTORATION

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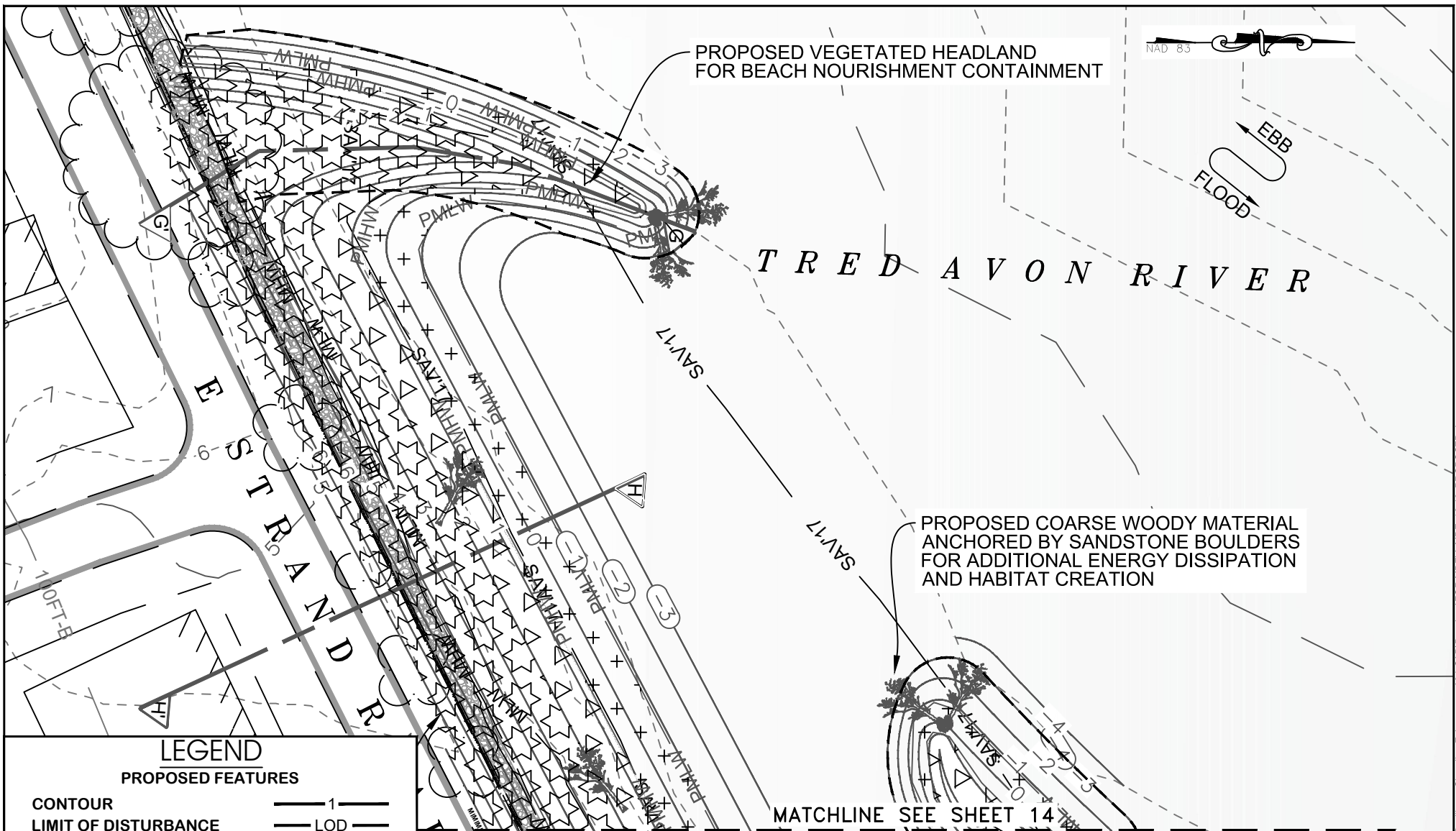
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PROPOSED CONDITIONS

OXFORD COASTAL RESILIENCE SHORELINE ENHANCEMENT

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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)	△
DUNE PLANTING	~
WELL GRADED MIX	---
BOULDERS	●
COARSE WOODY MATERIAL	✶

UNDERWOOD & ASSOCIATES

LANDSCAPE ARCHITECTURE

ECOLOGICAL RESTORATION

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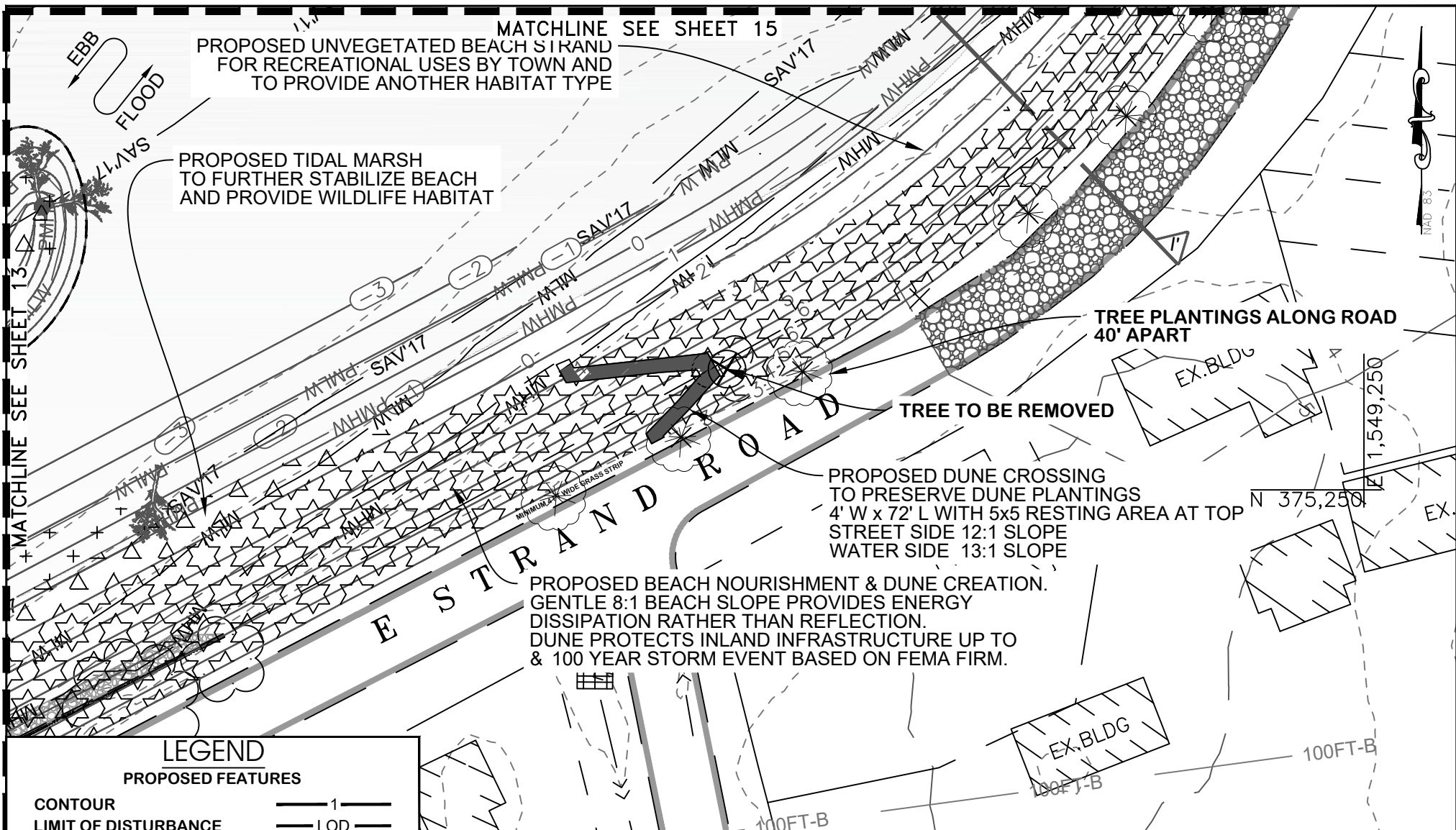
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PROPOSED CONDITIONS

OXFORD COASTAL RESILIENCE SHORELINE ENHANCEMENT

COMMISSIONERS OF OXFORD
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Cadd File: \\25.61.130.194\Shared\006-Projects\Oxford Coastal Resilience Shoreline Enhancement\04-CADD Drawings\FOR MDE\A-MDE_10-16_PROPOSED.dwg



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)	△
DUNE PLANTING	~
WELL GRADED MIX	—
BOULDERS	●
COARSE WOODY MATERIAL	✶

PLAN SCALE: 1"=40'

SHEET 14 OF 29

JUNE 9, 2021

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LANDSCAPE ARCHITECTURE

ECOLOGICAL RESTORATION

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PROPOSED CONDITIONS

OXFORD COASTAL RESILIENCE SHORELINE ENHANCEMENT

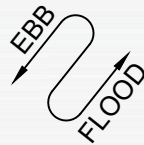
COMMISSIONERS OF OXFORD
MAP 0400, GRID 000OX, PARCEL 0677
3RD ELECTION DISTRICT, TALBOT COUNTY

MATCHLINE SEE SHEET 17

PROPOSED DUNE CROSSING TO
PRESERVE DUNE PLANTINGS
4' W x 130' L WITH 5x5 RESTING AREA AT TOP
ALL SLOPES ARE 20:1 FOR HANDICAP ACCESS

T R E D A V O N R I V E R

PROPOSED LIVING BREAKWATER
TO REDUCE WAVE ENERGY SUFFICIENT
TO MAINTAIN BEACH NOURISHMENT
(VEGETATED OFFSHORE BREAKWATER)



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
DUNE PLANTING	~
WELL GRADED MIX	---
BOULDERS	●
COARSE WOODY MATERIAL	✶

MATCHLINE SEE SHEET 14

PLAN

SCALE: 1"=40'

SHEET 15 OF 29

JUNE 9, 2021

UNDERWOOD & ASSOCIATES

LANDSCAPE ARCHITECTURE

ECOLOGICAL RESTORATION

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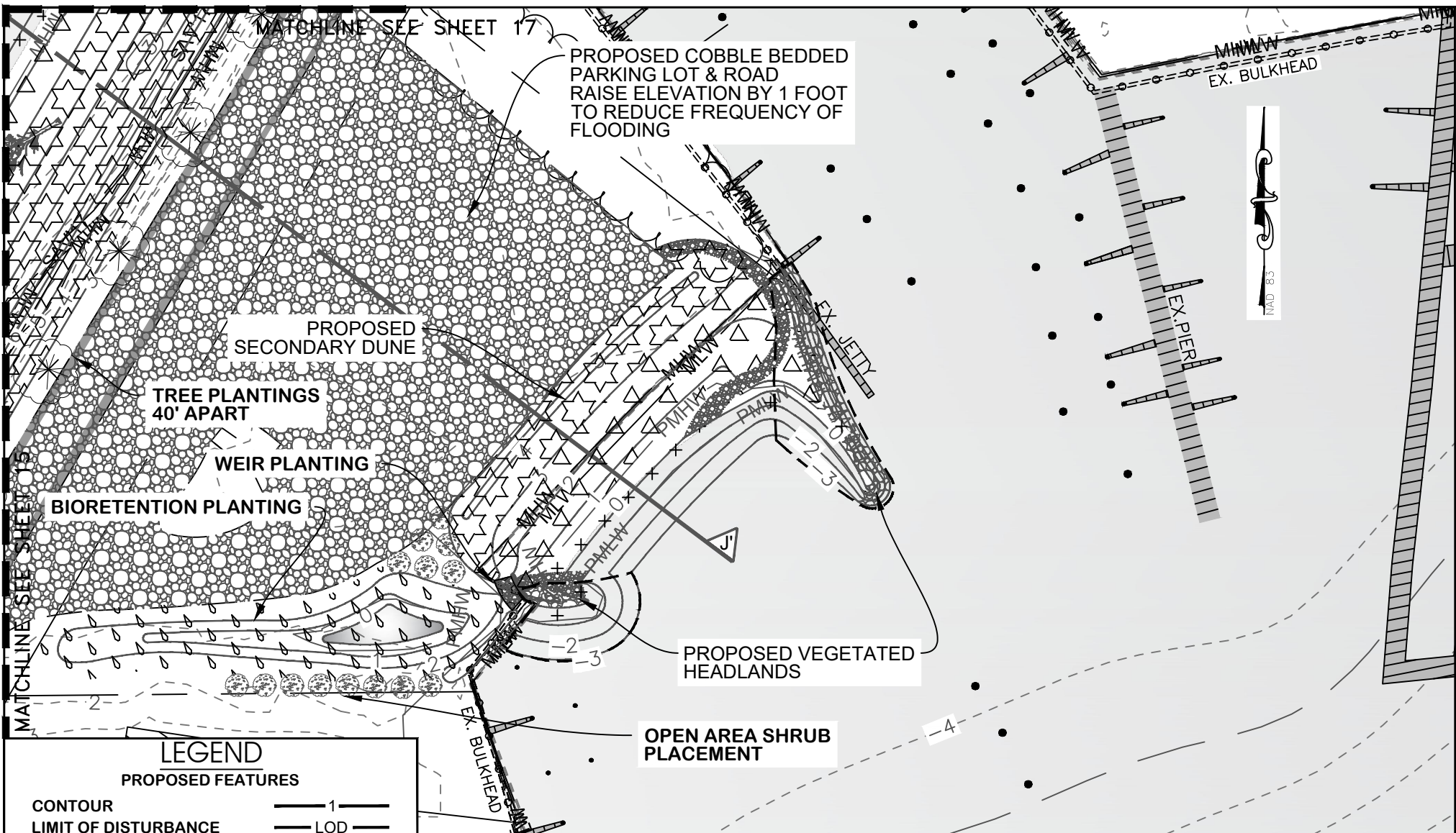
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PROPOSED CONDITIONS

OXFORD COASTAL RESILIENCE SHORELINE ENHANCEMENT

COMMISSIONERS OF OXFORD
MAP 0400, GRID 000OX, PARCEL 0677
3RD ELECTION DISTRICT, TALBOT COUNTY

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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)	△
DUNE PLANTING	~
WELL GRADED MIX	■
BOULDERS	●
COARSE WOODY MATERIAL	✶

PLAN SCALE: 1"=40'

SHEET 16 OF 29

JUNE 9, 2021

UNDERWOOD & ASSOCIATES

LANDSCAPE ARCHITECTURE

ECOLOGICAL RESTORATION

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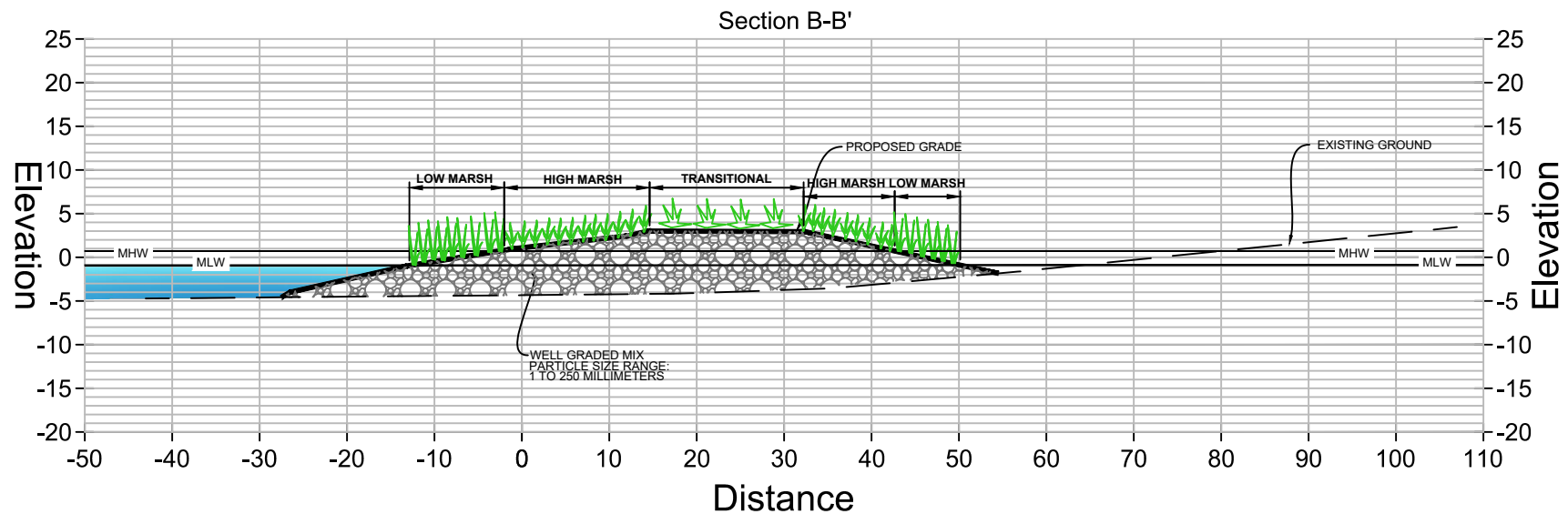
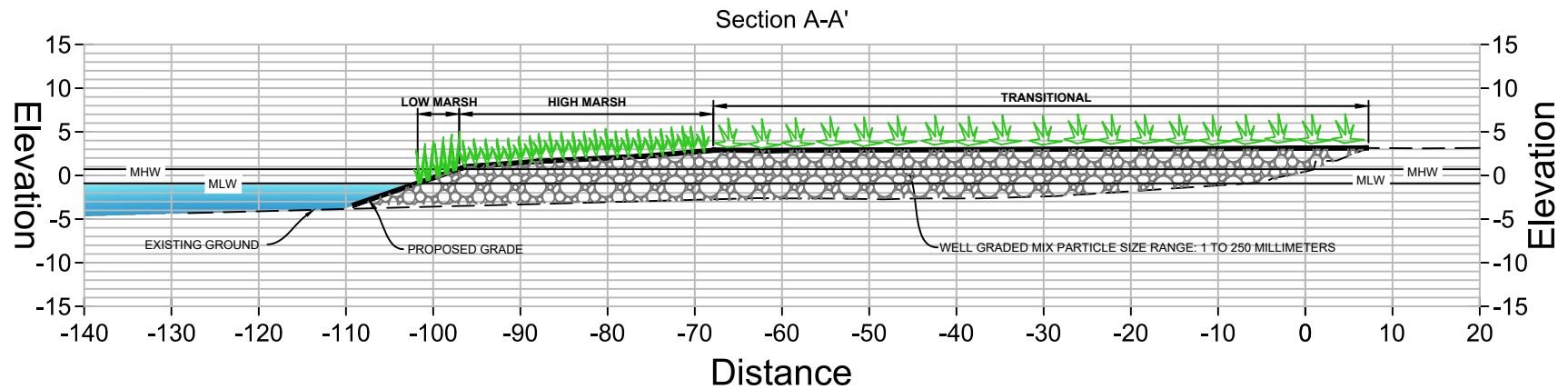
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PROPOSED CONDITIONS

OXFORD COASTAL RESILIENCE SHORELINE ENHANCEMENT

COMMISSIONERS OF OXFORD
MAP 0400, GRID 000OX, PARCEL 0677
3RD ELECTION DISTRICT, TALBOT COUNTY

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SCALE: 1"=20'

SHEET 18 OF 29

JUNE 9, 2021

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LANDSCAPE ARCHITECTURE

♦ ECOLOGICAL RESTORATION

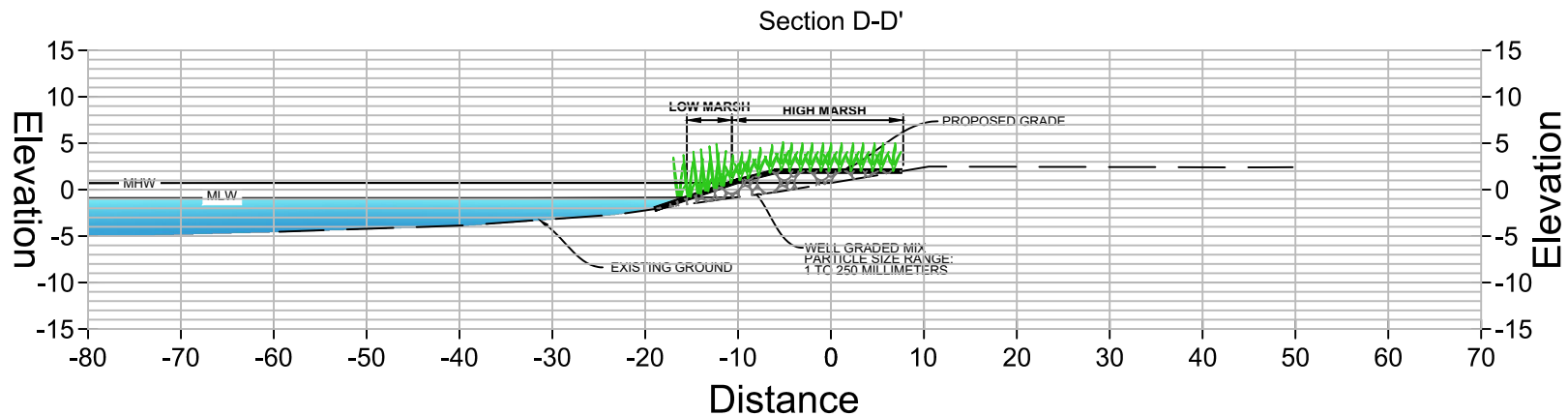
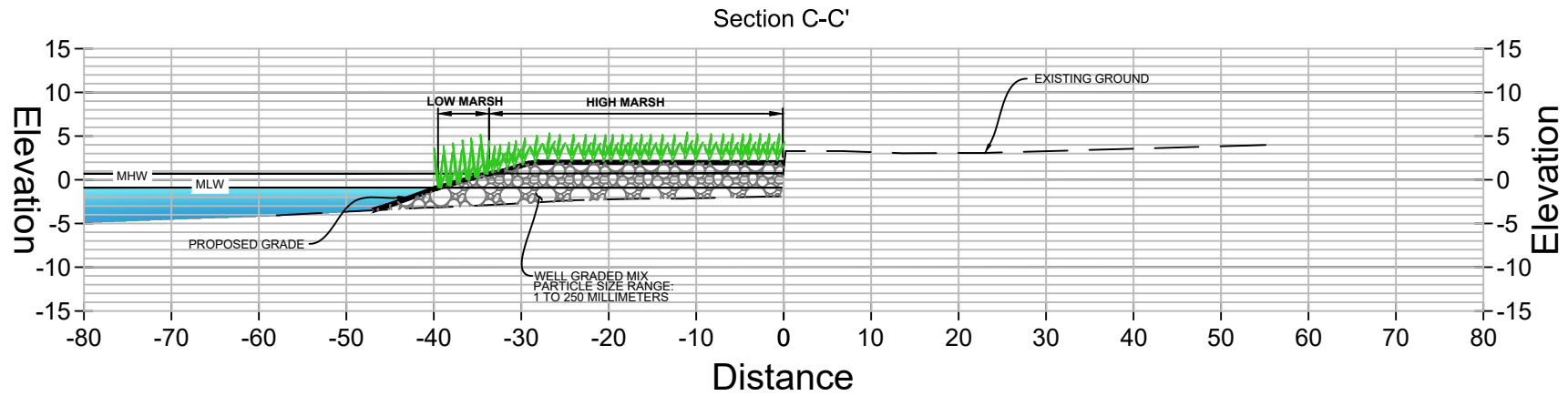
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CROSS SECTION

**OXFORD COASTAL
RESILIENCE SHORELINE
ENHANCEMENT**

COMMISSIONERS OF OXFORD
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3RD ELECTION DISTRICT, TALBOT COUNTY



SCALE: 1"=20'

SHEET 19 OF 29

JUNE 9, 2021

UNDERWOOD & ASSOCIATES

LANDSCAPE ARCHITECTURE

♦ ECOLOGICAL RESTORATION

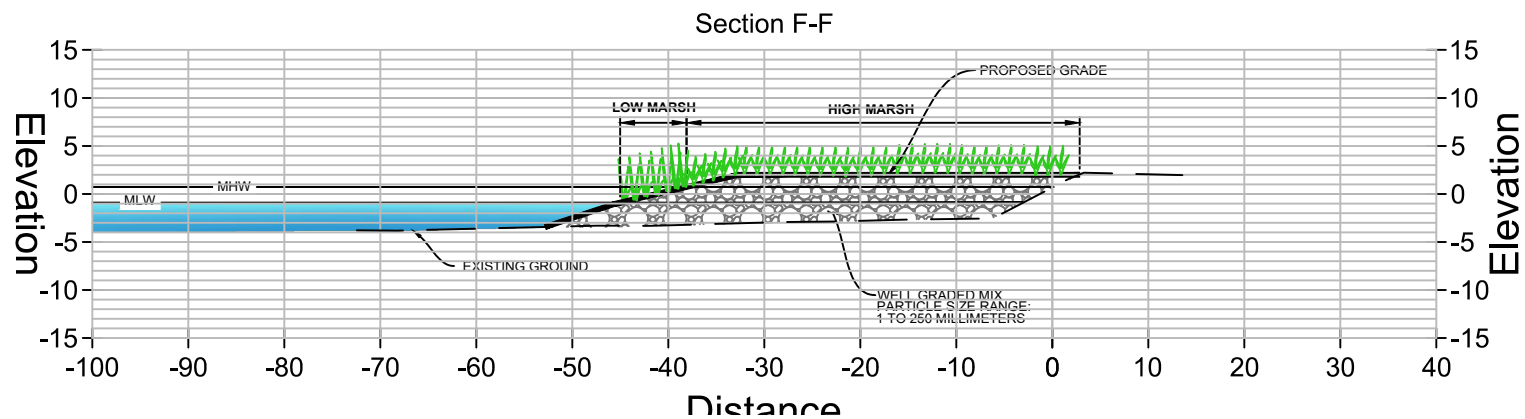
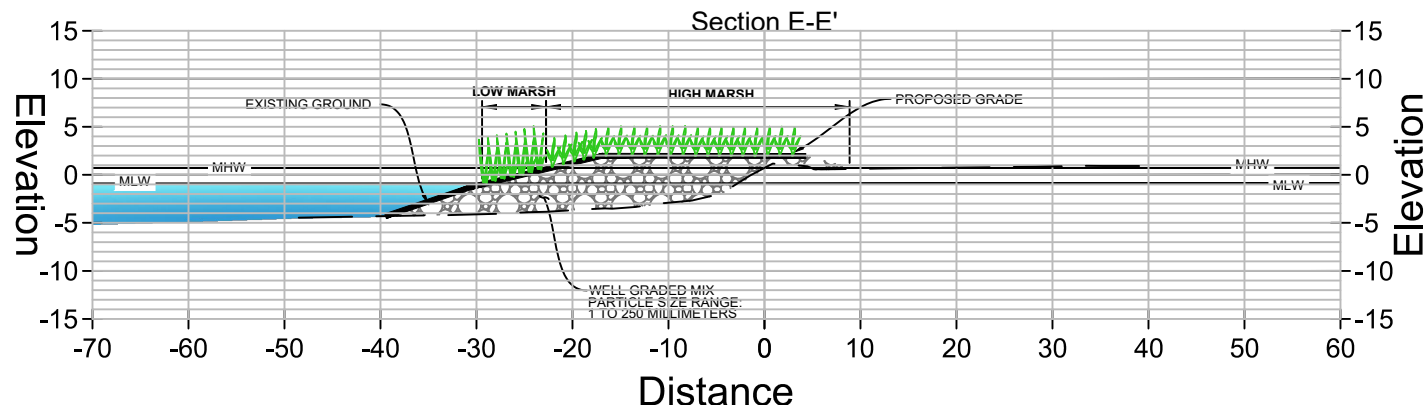
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CROSS SECTION

**OXFORD COASTAL
RESILIENCE SHORELINE
ENHANCEMENT**

COMMISSIONERS OF OXFORD
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3RD ELECTION DISTRICT, TALBOT COUNTY



SCALE: 1"=20'

SHEET 20 OF 29

JUNE 9, 2021

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LANDSCAPE ARCHITECTURE

♦ ECOLOGICAL RESTORATION

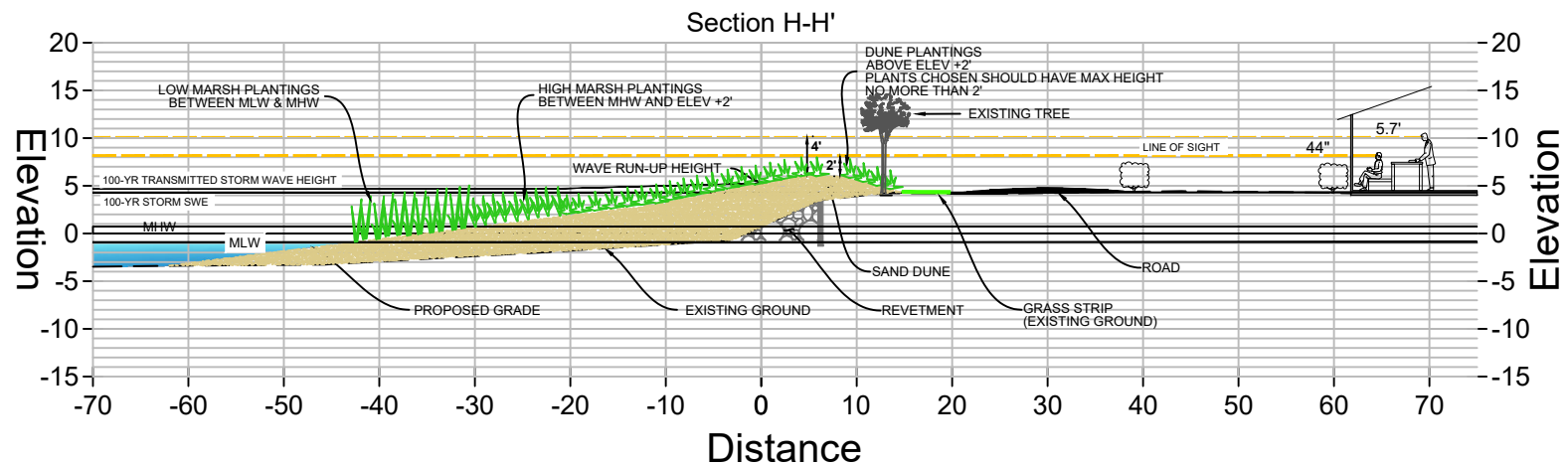
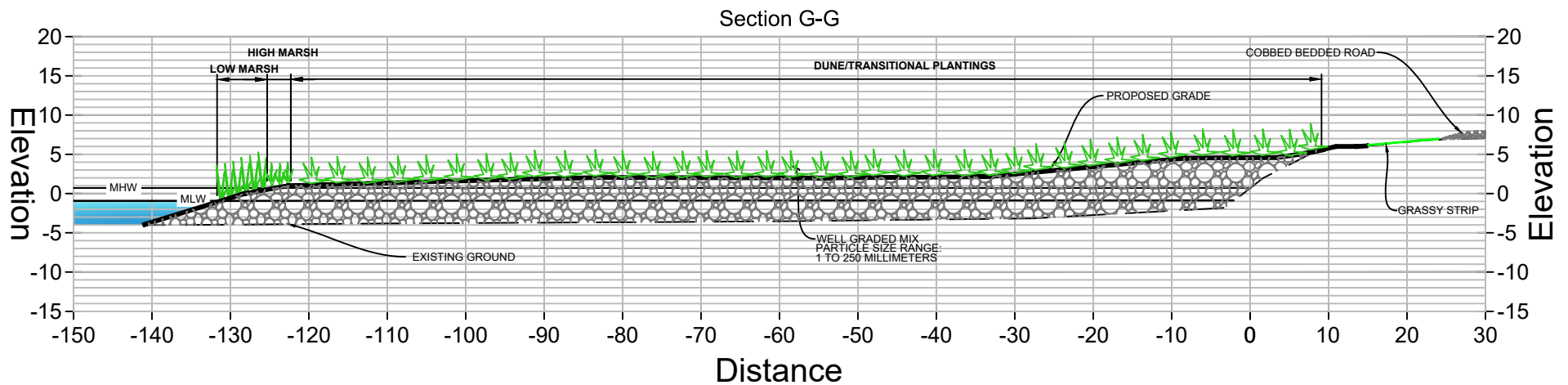
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CROSS SECTION

**OXFORD COASTAL
RESILIENCE SHORELINE
ENHANCEMENT**

COMMISSIONERS OF OXFORD
MAP 0400, GRID 000OX, PARCEL 0677
3RD ELECTION DISTRICT, TALBOT COUNTY



SCALE: 1"=20'

SHEET 21 OF 29

JUNE 9, 2021

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LANDSCAPE ARCHITECTURE

ECOLOGICAL RESTORATION

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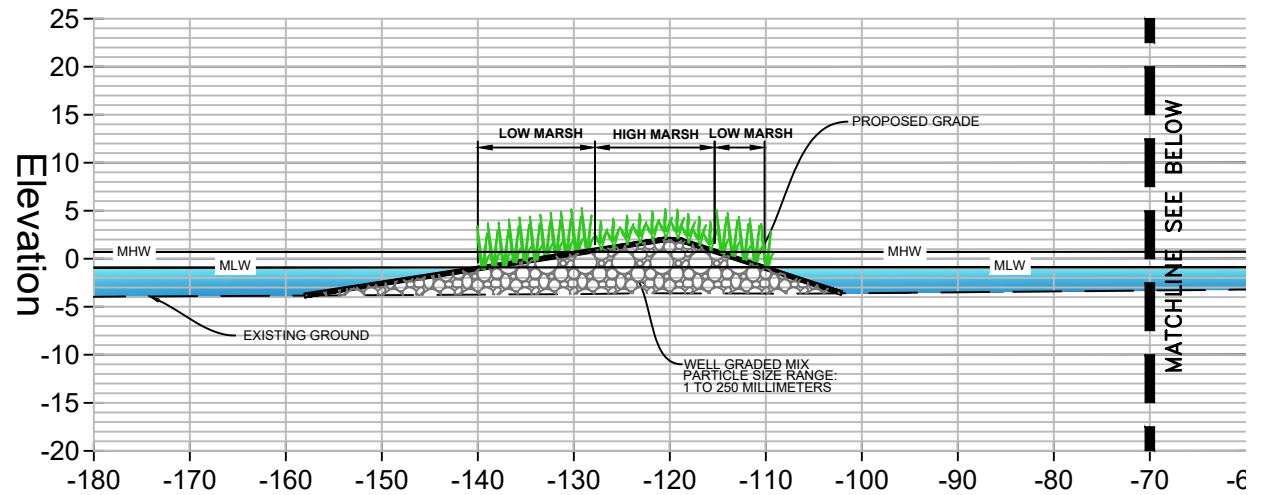
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CROSS SECTION

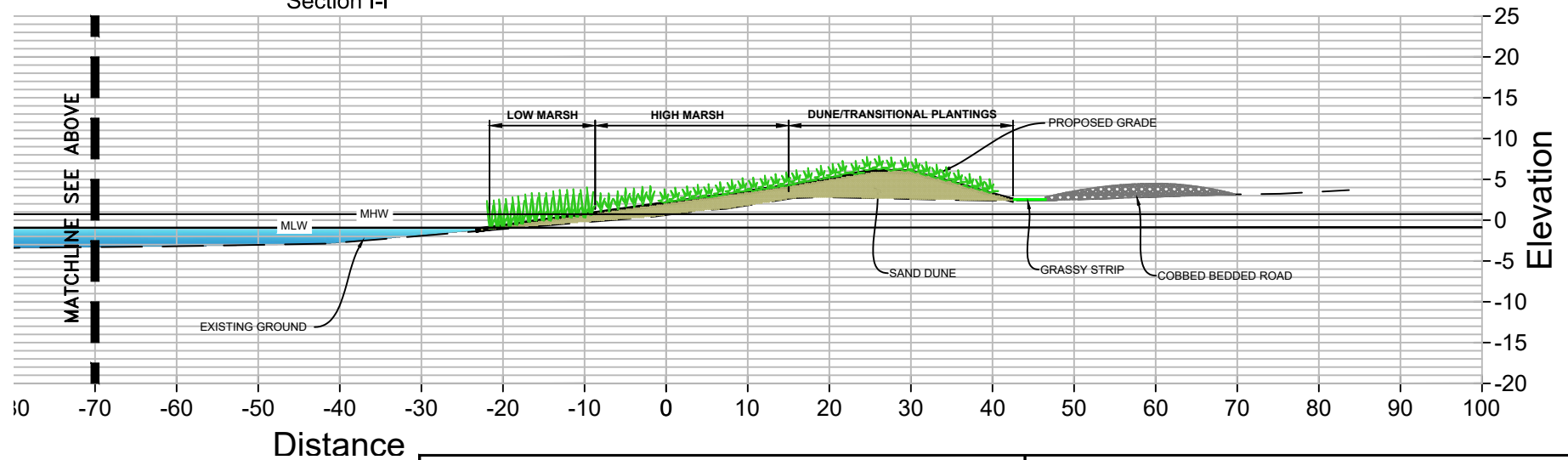
**OXFORD COASTAL
RESILIENCE SHORELINE
ENHANCEMENT**

COMMISSIONERS OF OXFORD
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3RD ELECTION DISTRICT, TALBOT COUNTY

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Section I-I'



SCALE: 1"=20'

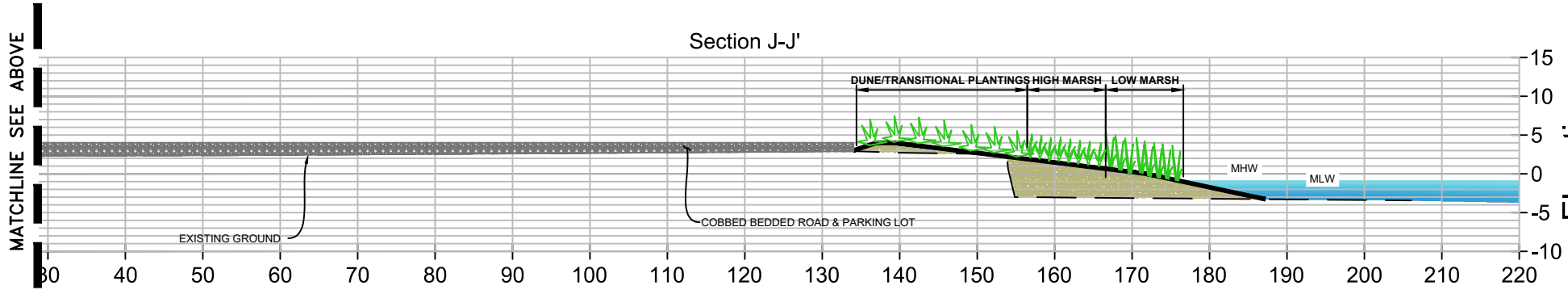
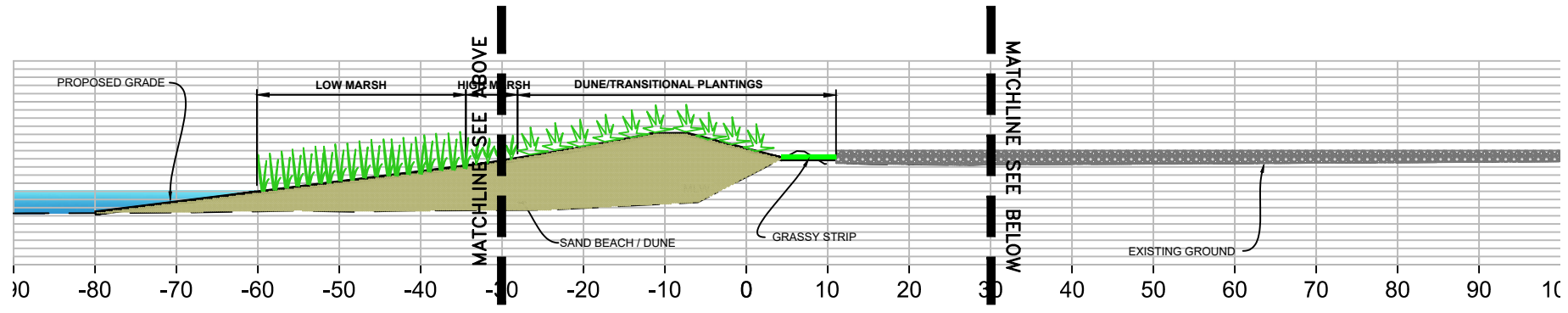
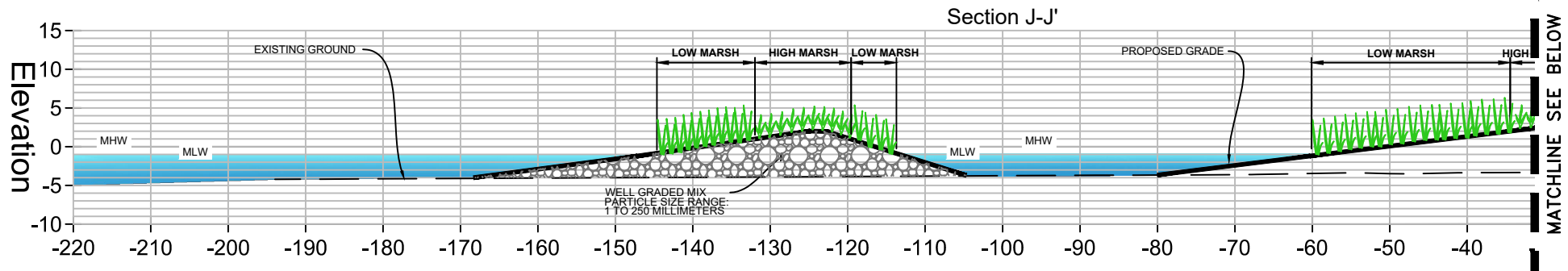
SHEET 22 OF 29

JUNE 9, 2021



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CROSS SECTION
OXFORD COASTAL RESILIENCE SHORELINE ENHANCEMENT
 COMMISSIONERS OF OXFORD
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 3RD ELECTION DISTRICT, TALBOT COUNTY



SCALE: 1"=20'

SHEET 23 OF 29

JUNE 9, 2021

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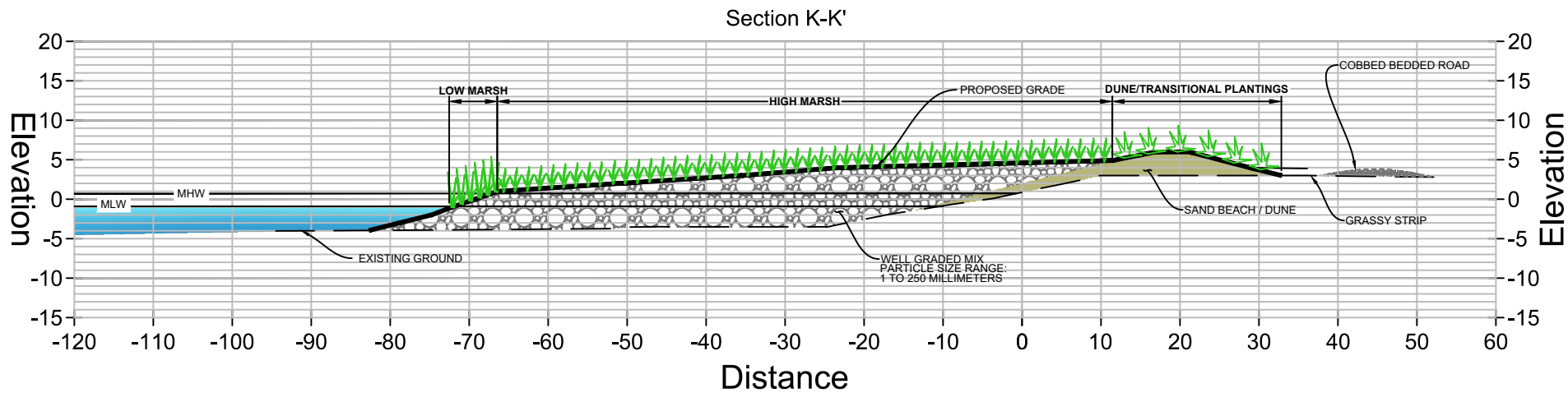


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CROSS SECTION

**OXFORD COASTAL
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 ENHANCEMENT**

COMMISSIONERS OF OXFORD
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 3RD ELECTION DISTRICT, TALBOT COUNTY



SCALE: 1"=20'

SHEET 24 OF 29

JUNE 9, 2021

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♦ ECOLOGICAL RESTORATION

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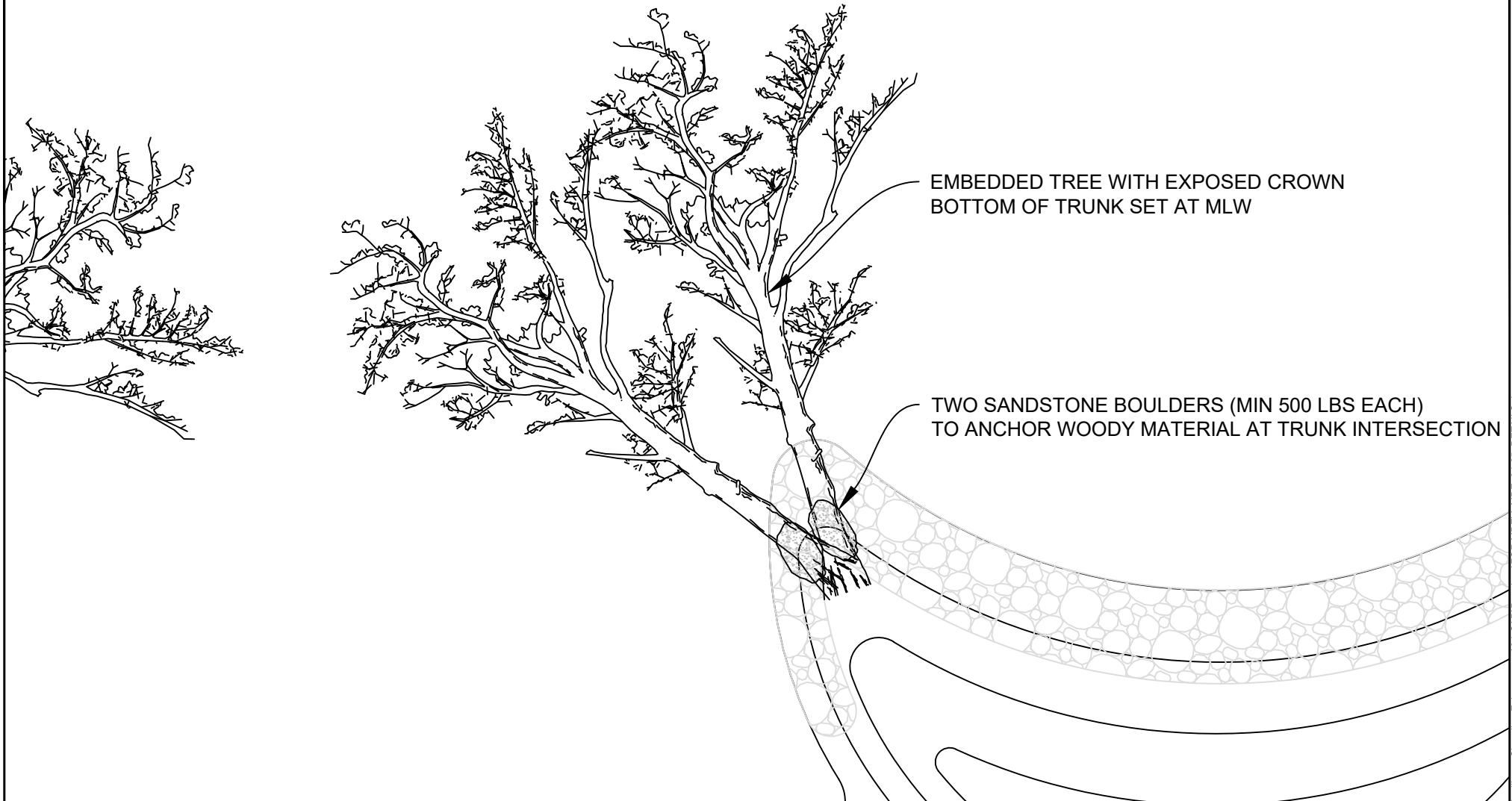
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CROSS SECTION

**OXFORD COASTAL
RESILIENCE SHORELINE
ENHANCEMENT**

COMMISSIONERS OF OXFORD
MAP 0400 , GRID 000OX , PARCEL 0677
3RD ELECTION DISTRICT, TALBOT COUNTY

WOODY MATERIAL ANCHORING (TYP.) - PLAN VIEW



SHEET 25 OF 29

JUNE 9, 2021

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LANDSCAPE ARCHITECTURE



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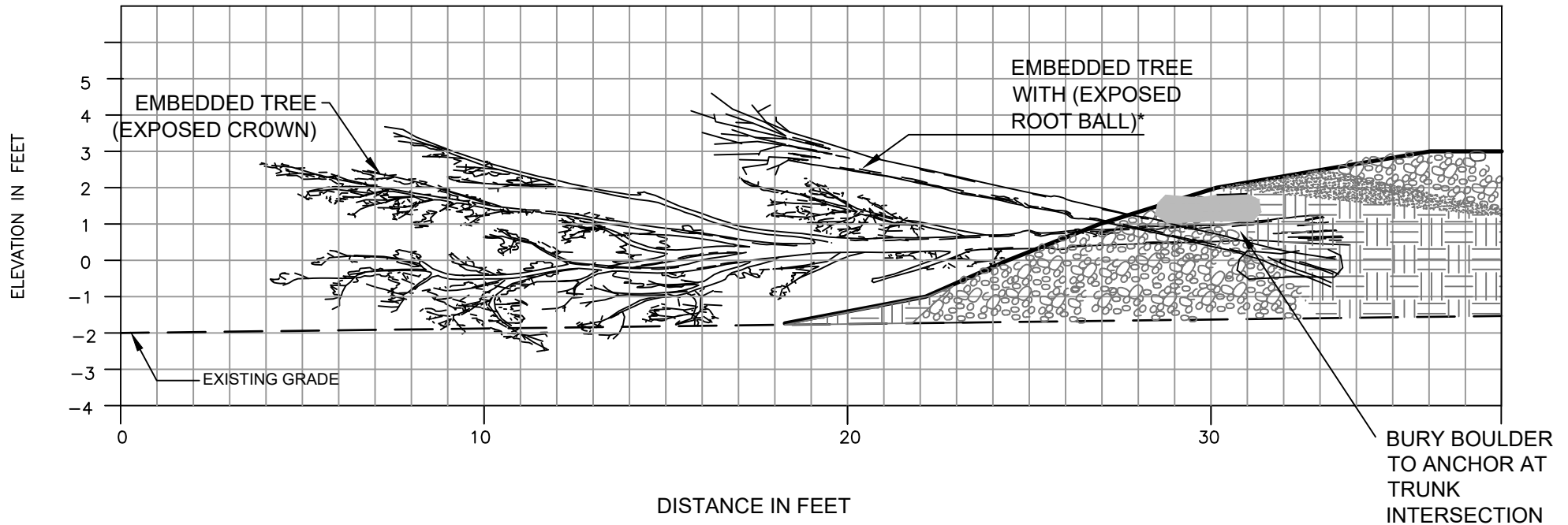
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PROJECT DETAILS

OXFORD COASTAL RESILIENCE SHORELINE ENHANCEMENT

COMMISSIONERS OF OXFORD
MAP 0400 , GRID 000OX , PARCEL 0677
3RD ELECTION DISTRICT, TALBOT COUNTY

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.

<p>UNDERWOOD & ASSOCIATES LANDSCAPE ARCHITECTURE ♦ ECOLOGICAL RESTORATION A DESIGN/BUILD Co.</p>	
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SHEET 26 OF 29

JUNE 9, 2021

PROJECT DETAILS

OXFORD COASTAL RESILIENCE SHORELINE ENHANCEMENT

COMMISSIONERS OF OXFORD
 MAP 0400 , GRID 000OX , PARCEL 0677
 3RD ELECTION DISTRICT, TALBOT COUNTY


OXFORD COASTAL RESILIENCE PROJECTS - PLANTING SCHEDULE

Planting Zone		Symbol	Total Area (Ft^2)	Common Name	Scientific Name	Type	Size	Distribution	Avg Spacing (ft)	Quantity	Credit Area (SF per plant)	Total Credit Area (SF)	Description
Lowmarsh Cordgrass*			14,679	Lowmarsh Cordgrass	<i>Spartina alterniflora</i>	SAV	Gal	Random	5	588.0	0	0	Between MLW and MHW.
Highmarsh Cordgrass*			16,901	Highmarsh Cordgrass	<i>Spartina patens</i>	SAV	Gal	Random	5	677.0	0	0	Above MHW to elevation 2 ft
Bioretention**	Highest Zone	1,218	White Turtlehead	<i>Chelone Glabra</i>	Herbaceous	Qt	Random	5	17.0	0	0	Within and near the RSC-type bioretention pool. The highest zone is the area including 5' around the bioretention pool edge. The middle zone is between the top of pool and MHW elevation. The lowest zone is below MHW elevation	
			Winterberry	<i>Ilex Verticillata</i>	Shrub	2-3'	Random	8	7.0	0	0		
			American Holly	<i>Ilex Opaca</i>	Tree	6'	Random	12	3.0	0	0		
	Middle Zone	1,339	Frosted Hawthorn	<i>Crataegus Pruinosa</i>	Tree	6'	Random	12	4.0	0	0		
			New England Aster	<i>Aster Novae Angliae</i>	Herbaceous	Qt	Random	5	18.0	0	0		
			Boneset	<i>Eupatorium Perfoliatum</i>	Herbaceous	Qt	Random	5	18.0	0	0		
	Lowest Zone	437	Marsh Marigold	<i>Caltha Palustris</i>	Herbaceous	Qt	Random	5	5.0	0	0		
			Common Hackberry	<i>Celtis Occidentalis</i>	Tree	6'	Random	12	1.0	0	0		
			Buttonbush	<i>Cephalanthus Occidentalis</i>	Shrub	1-2'	Random	8	2.0	0	0		
Blue Flag			<i>Iris Versicolor</i>	Herbaceous	Qt	Random	5	5.0	0	0			
Trees			600 LF	Atlantic White Cedar	<i>Chamaecyparis thyoides</i>	Tree	8'	Line	40	5.0	200	1000	Linearly planted alongside road near disturbed canopy.
		Bay Cedar	<i>Suriana Maritima</i>	Tree	8'	Line	40	5.0	200	200	1000		
		Black Gum	<i>Nyssa sylvatica</i>	Tree	8'	Line	40	5.0	200	200	1000		
Weir			43	Bladder Sedge	<i>Carex intumescens</i>	Herbaceous	Qt	Random	2	3.0	2	6	Within the footprint of constructed riffle weirs above limits of baseflow, between cobbles
			Broomsedge	<i>Andropogon virginicus</i>	Herbaceous	Qt	Random	2	3.0	2	6		
			Bushy Bluestem	<i>Andropogon glomeratus</i>	Herbaceous	Qt	Random	2	3.0	2	6		
			Fringed Sedge	<i>Carex crinita</i>	Herbaceous	Qt	Random	2	3.0	2	6		
			Tussock Sedge	<i>Carex stricta</i>	Herbaceous	Qt	Random	2	3.0	2	6		
Dune			38,848	Broomsedge	<i>Andropogon virginicus</i>	Herbaceous	Qt	Random	5	142.0	2	284	Replanting the upland dune zones that are outside intermittently flooded areas.
			Evening primrose	<i>Oenothera humifusa</i>	Herbaceous	Qt	Random	5	142.0	2	284		
			Beach plum***	<i>Prunus maritima</i>	Shrub	2-3'	Random	8	56.0	50	2800		
			Seaside goldenrod	<i>Solidago sempervirens</i>	Herbaceous	Qt	Random	5	142.0	2	284		
			Bitter panicgrass	<i>Panicum amarum</i>	Herbaceous	Qt	Random	5	142.0	2	284		
			Wax myrtle***	<i>Morella cerifera</i>	Shrub	2-3'	Random	8	56.0	50	2800		
			American beachgrass	<i>Ammophila breviligulata</i>	Herbaceous	Qt	Random	5	142.0	2	284		
			Switchgrass	<i>Panicum virgatum</i>	Herbaceous	Qt	Random	5	142.0	2	284		
			Early Low Blueberry	<i>Vaccinium Pallidum</i>	Shrub	1-2'	Random	8	56.0	50	2800		
			Creeping Juniper	<i>Juniperus Horizontalis</i>	Shrub	1-2'	Random	8	56.0	50	2800		
			Prickly pear	<i>Opuntia humifosa</i>	Herbaceous	Qt	Random	5	142.0	2	284		
Open Areas			4,557	Annual Rye	-	Grass	Seed (lbs)	N/A	5 lbs/1,000 sqft	22.8	-	-	
				Wild Hydrangea	<i>Hydrangea Arborescens</i>	Shrub	1-2'	Placed	8	7.0	50	350	
				Witch Hazel	<i>Hamamelis Virginiana</i>	Shrub	1-2'	Placed	8	7.0	50	350	
				Chewings Red Fescue	-	Grass	Seed (lbs)	N/A	5 lbs/1,000 sqft	22.8	-	-	
Critical Area Mitigation Calculations				Total Area of Disturbed Canopy (SF)	Total Area of Dune Crossings (SF)	Canopy Mitigation Ratio	Crossings Mitigation Ratio	Total Mitigation Credit Required (SF)			Total Credit Area (SF)		Percent Mitigation (%)
				3,626	1,180	1:1	2:1	5,986			16,918		283%

* - All low marsh and high marsh plantings will be solely counted towards MDE mitigation requirements, and not towards the overall critical area mitigation.

** - The bioretention plantings will solely count towards MDE's stormwater BMP specifications, and not towards the overall critical area mitigation.

*** - These shrub species reach heights above 3 ft when mature. Only plant these shrubs where homeowner-to-water visibility is not a concern.

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		<p>PLANTING SCHEDULE</p> <p>OXFORD COASTAL RESILIENCE SHORELINE ENHANCEMENT</p> <p>COMMISSIONERS OF OXFORD MAP 0400 , GRID 000OX , PARCEL 0677 3RD ELECTION DISTRICT, TALBOT COUNTY</p>	

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OXFORD COASTAL RESILIENCE PROJECTS - PROJECT DATA TABLES

COMBINED PROJECT OUTCOME TABLE

Feature	Existing	Proposed	Difference
<i>Spartina Patens</i> - High Marsh (SF)	0	16,901	+16901
<i>Spartina Alterniflora</i> - Low Marsh (SF)	0	14,679	+14679
Total Tidal Wetlands (SF)	0	31,580	+31580
Dune Area (SF)	0	38,848	+38848
Bulkhead (LF)	156	0	-156
Revetment (LF)	534	0	-534
Shoreline at MHW (LF)	1,478	2,674	+1196

SAV IMPACT TABLE

Year	Permanent Impact (SF)	Temporary Impact (SF)
2015	0	0
2016	0	0
2017	31,698	42,794
2018	0	0
2019	0	0

Notes:

*Permanent Impacts are areas where proposed sand, gravel, cobble, or boulder fill overlaps mapped SAV beds.

**Temporary Impacts are areas where construction access and sediment and erosion control features overlap mapped SAV beds.

Impacts are limited to the Strand Beach Living Shoreline and Living Islands project. No other project areas have SAV mapped by VIMS in the past 5 years of record within the project extents or general vicinity.

MHW = 0.72 / MLW = -0.9 (NAVD88)

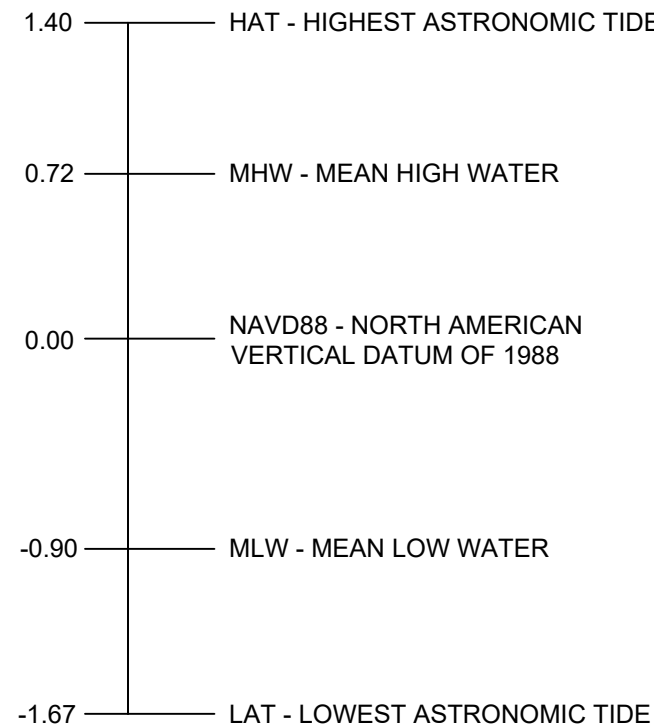
MHW AND MLW ARE BASED ON NOAA CAMBRIDGE, MD STATION 8571892

ONLY ONE TREE IS PROPOSED FOR REMOVAL IN THIS PROJECT. IT IS RECOGNIZED THAT FILL ACTIVITIES MAY ADVERSELY IMPACT EXISTING TREES. TO COVER THE WORST CASE SCENARIO, THE CRITICAL AREA MITIGATION REQUIRED ASSUMES THE LOSS OF ALL TREES ON SITE

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 0.90 FT TO ALL ELEVATIONS.

DATA IN FT FROM NOAA GAUGE 8571892, CAMBRIDGE



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JUNE 9, 2021

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PROJECT DATA TABLES

OXFORD COASTAL RESILIENCE SHORELINE ENHANCEMENT

COMMISSIONERS OF OXFORD
MAP 0400, GRID 000OX, PARCEL 0677
3RD ELECTION DISTRICT, TALBOT COUNTY

Oxford Coastal Resilience Project - Project Component Breakdown													
Project Section	Section Component	Avg Length (ft)	Avg Width (ft)	Total Impact to Tidal Waters (SF)	Impact to Inter-tidal (SF)	Impact to Unvegetated Sub-tidal / Open Water (SF)	Impact to Tidal Marsh (SF)	Permanent Impact to 2017 SAV (SF)	Avg Crest Height above MHW (ft)	Sand Volume in WOTUS (CY)	Stone Volume in WOTUS (CY)	Tidal Marsh Created by Project (SF)	
Strand Beach Living Shoreline & Living Breakwaters	Living Breakwater (East)	94	59	4,489	0	4,489	0	0	2	68	271	1,609	
	Living Breakwater (Middle)	87	50	3,582	0	1,940	0	1,642	2	74	295	1,609	
	Living Breakwater (West)	85	49	3,966	0	1,943	0	2,023	2	74	296	1,580	
	Living Headland (East)	76	35	2,495	370	2,125	0	0	4	148	221	903	
	Living Headland (West)	145	37	5,363	117	3,802	0	1,444	4	314	472	2,100	
	Living Shoreline Beach and Marsh	949	77	52,736	10,201	15,946	0	26,589	6	6,148	0	11,032	
	Section Totals	-	-	72,631	10,688	30,245	0	31,698	-	6,826	1,555	18,832	
Town Creek Living Shoreline	Living Headland (East)	70	23	1,049	0	1,049	0	0	1	43	65	666	
	Living Headland (West)	28	23	708	0	708	0	0	1	18	27	288	
	Living Shoreline Beach and Marsh	130	52	3,037	352	2,685	0	0	5	443	0	2,762	
	Section Totals	-	-	4,794	352	4,442	0	0	-	504	92	3,716	
Tred Avon Yacht Club Living Shoreline	Living Headland (East)	39	41	1,363	183	1,180	0	0	2	44	66	887	
	Living Headland (Middle-East)	20	17	319	220	99	0	0	2	5	8	374	
	Living Headland (Middle-West)	16	17	254	174	80	0	0	2	4	5	290	
	Living Headland (West)	46	35	1,318	42	1,276	0	0	2	45	68	875	
	Section Totals	-	-	3,254	619	2,635	0	0	-	98	147	2,426	
Oxford-Bellevue Ferry Terminal Headland	Living Headland [Section Totals]	56	42	1,822	74	1,748	0	0	2	49	114	1,155	
Lovers Lane Headlands	Living Headland (North)	112	63	5,877	492	5,385	0	0	3	319	479	2,841	
	Living Headland (South)	106	57	4,791	372	4,419	0	0	3	208	311	2,610	
	Section Totals	-	-	10,668	864	9,804	0	0	-	527	790	5,451	

	SHEET 29 OF 29							JUNE 9, 2021						
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							OXFORD COASTAL RESILIENCE SHORELINE ENHANCEMENT COMMISSIONERS OF OXFORD MAP 0400 , GRID 000OX , PARCEL 0677 3RD ELECTION DISTRICT, TALBOT COUNTY							

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