



Maryland

Department of the Environment

Larry Hogan, Governor
Boyd K. Rutherford, Lt. Governor

Ben Grumbles, Secretary
Horacio Tablada, Deputy Secretary

July 10, 2020

Cape St Claire Improvement Association
Attn: Beau Breeden; Gbbreeden2@gmail.com
c/o Ed Morgereth; emoreth@biohabitats
Biohabitats, Inc
2081 Clipper Park Rd
Baltimore, MD 21211

Re: Agency Interest Number: 163289
Tracking Number: 201862001
Tidal Authorization Number: 20-WQC-0040

Dear Cape Saint Claire Improvement Association:

Your project did not qualify for approval under the Maryland State Programmatic General Permit (MDSPGP); therefore a separate review and issuance of the federal permit will be required by the U.S. Army Corps of Engineers. The federal permit is not attached.

Additionally, your project required a Wetlands License to be approved and issued by the Maryland Board of Public Works (BPW). The Wetlands License will be sent to you by the BPW's Wetlands Administrator.

A project that does not qualify for approval under the MDSPGP requires an individual Water Quality Certification (WQC) to be issued by the Maryland Department of the Environment, which is attached. Please take a moment to read and review your WQC to ensure that you understand the limits of the authorized work and all of the general and special conditions.

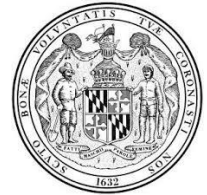
You should not begin any work until you have obtained all necessary State, local, and federal authorizations. Please contact Matthew Wallach at matthew.wallach@maryland.gov or 410-537-3527 with any questions.

Sincerely,

Danielle Spendiff, Chief
Western Region
Tidal Wetlands Division



STATE OF MARYLAND
DEPARTMENT OF THE ENVIRONMENT
WATER AND SCIENCE ADMINISTRATION
WATER QUALITY CERTIFICATION



20-WQC-0040

EFFECTIVE DATE: **July 10, 2020**
EXPIRATION DATE: **July 9, 2023**
CERTIFICATION HOLDER: **Cape St Claire Improvement Association**
ADDRESS: **1223 River Bay Rd**
Annapolis, Maryland 21401
PROJECT LOCATION: **1223 River Bay Rd**
Annapolis, MD 21409
Magothy River

UNDER AUTHORITY OF SECTION 401 OF THE FEDERAL WATER POLLUTION CONTROL ACT AND ITS AMENDMENTS AND IN ACCORDANCE WITH §9-313 THROUGH §9-323, INCLUSIVE, OF THE ENVIRONMENT ARTICLE, ANNOTATED CODE OF MARYLAND, THE WATER AND SCIENCE ADMINISTRATION (“ADMINISTRATION”) HAS DETERMINED THAT THE REGULATED ACTIVITY DESCRIBED IN STATE TIDAL WETLANDS LICENSE NUMBER 18-WL-1181 STANDARDS, IF CONDUCTED IN ACCORDANCE WITH THE CONDITIONS OF THIS CERTIFICATION AND WITH ALL TERMS AND CONDITIONS OF THE LICENSE. A COPY OF THE LICENSE, INCLUDING APPROVED PROJECT DRAWINGS AND OTHER ATTACHMENTS, IS ATTACHED HERETO AND IS HEREBY INCORPORATED BY REFERENCE.

THIS CERTIFICATION DOES NOT RELIEVE THE APPLICANT OF RESPONSIBILITY FOR OBTAINING ANY OTHER APPROVALS, LICENSES, OR PERMITS IN ACCORDANCE WITH FEDERAL, STATE, OR LOCAL REQUIREMENTS AND DOES NOT AUTHORIZE COMMENCEMENT OF THE PROPOSED PROJECT. A COPY OF THIS REQUIRED CERTIFICATION HAS BEEN SENT TO THE CORPS OF ENGINEERS.

THE CERTIFICATION HOLDER SHALL COMPLY WITH THE CONDITIONS LISTED BELOW.

SPECIAL CONDITIONS

- A. The terms and conditions of Tidal Wetlands License No. 18-WL-1181 are hereby incorporated, by reference, into this Water Quality Certification. The Certification Holder shall comply with these conditions to ensure that the authorized activities will not result in a violation of the State's water quality standards.

GENERAL CONDITIONS

- A. The proposed project shall be constructed in a manner which will not violate Maryland's Water Quality Standards as set forth in COMAR 26.08.02. The applicant is to notify this Department ten (10) days prior to commencing work. Verbal notification is to be followed by written notice within ten (10) days.
- B. The Maryland Department of the Environment has determined that the proposed activities comply with, and will be conducted in a manner consistent with the State's Coastal Zone Management Program, as required by Section 307 of the Federal Coastal Zone Management Act of 1972, as amended.
- C. If the authorized work is not performed by the property owner, all work performed under this Tidal Wetlands License shall be conducted by a marine contractor licensed by the Marine Contractors Licensing Board (MCLB) in accordance with Title 17 of the Environment Article of Annotated Code of Maryland. A list of licensed marine contractors may be obtained by contacting the MCLB at 410-537-3249, by e-mail at MDE.MCLB@maryland.gov or by accessing the Maryland Department of the Environment, Environmental Boards webpage.
- D. The Certification Holder shall ensure the proposed project shall be constructed in accordance with the authorized plan and any authorized revisions.
- E. The Certification Holder shall ensure that all fill and construction materials not used in the project shall be removed and disposed of in a manner which will prevent their entry into waters of this State.
- F. The Certification Holder shall notify the Water and Science Administration, Tidal Wetlands Division, in writing, upon transferring property ownership or responsibility for compliance with these conditions to another person. The new owner/operator shall request, in writing, transfer of this Water Quality Certification to his/her name.
- G. The Certification Holder shall allow representatives of the Maryland Department of the Environment to inspect the authorized activities.
- H. The Certification Holder shall ensure that a copy of this Permit, including the approved plans, is available at the site until the authorized work is complete.
- I. The Certification does not relieve the Certification holder from the responsibility of obtaining all necessary federal, State, and local government authorizations.
- J. The Certification Holder shall comply with all Critical Area requirements and obtain all necessary authorizations from local jurisdiction. This Certification does not constitute authorization for disturbance in the 100-foot Critical Area Buffer. "Disturbance" in the Buffer means clearing, grading, construction activities, or removal of any size of tree or vegetation. Any anticipated Buffer disturbance requires prior written approval, before commencement of land disturbing activity, from local jurisdiction in the form of a Buffer Management Plan.

Failure to comply with these conditions shall constitute reason for suspension or revocation of the Water Quality Certification, and legal proceedings may be instituted against the Certification Holder in accordance with the Annotated Code of Maryland. In granting this certification, the Department reserves the right to inspect the operations and records regarding this project at anytime

CERTIFICATION APPROVED



D. Lee Currey, Director
Water and Science Administration

7/16/2020

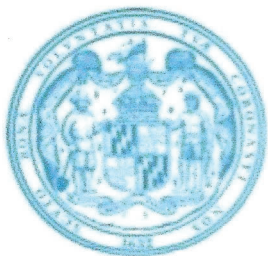
Date

Tracking Number: 201862001
Agency Interest Number: 163289

Effective Date: July 10, 2020

Enclosure: Executed Tidal Wetlands License No. 18-WL-1181 with all plans and attachments.

cc: WMA Inspection & Compliance Program



William Morgante, PWS
Wetlands Administrator

State of Maryland
Board of Public Works
Wetlands Administration
Post Office Box 1510 Annapolis, Maryland 21404
410-260-7791

Larry Hogan
Governor

Nancy K. Kopp
Treasurer

Peter Franchot
Comptroller

John T. Gontrum, Esq.
Executive Secretary

July 2, 2020

License # 18-1181

Dear Licensee(s):

Enclosed please find a copy of the above-mentioned wetlands license issued to you on July 1, 2020.

After you have read all the conditions of the license, please ensure that the license is signed (see below options for signing) by the licensee or designee, and the entire license (including plans) is returned to this office *within 15 business days*. The Executive Secretary signs and validates the license after BPW receives the license signed by the licensee. The Wetlands Administration office is currently closed due to the COVID-19 pandemic with wetland license processing occurring remotely.

Licensees have the following options for signing and returning a license given the current COVID-19 situation:

- 1) Physical "wet-ink" signatures on a license returned by mail to the Wetlands Administrations' post office box (with the understanding that this option may delay license issuance, perhaps until after the end of pandemic related restrictions); or
- 2) Electronic or scanned signatures on a license returned by email to bill.morgante@maryland.gov.

Please note that you must notify the MD Department of the Environment, Inspections and Compliance Program, by calling (410) 537-3510 in Baltimore, or (410) 901-4020 in Cambridge, five days prior to commencing work.

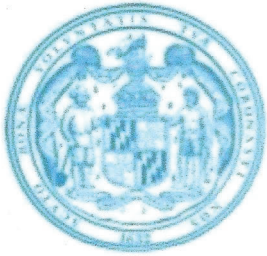
This license does not constitute your federal authorization. Contact the U.S. Army Corps of Engineers, Baltimore District, (410) 962-4500 (Maryland Section Southern) or (410) 962-4252 (Maryland Section Northern) regarding the status of the federal permit.

If you have any questions concerning this license, please contact me.

Sincerely,
William Morgante
Wetlands Administrator

Enclosure

cc: MDE, Tidal Wetlands Division



William Morgante, PWS
Wetlands Administrator

State of Maryland
Board of Public Works
Wetlands Administration
Post Office Box 1510 Annapolis, Maryland 21404
410-260-7791

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Peter Franchot
Comptroller

John T. Gontrum, Esq.
Executive Secretary

WETLANDS LICENSE NO. 18-1181

CAPE ST. CLAIRE IMPROVEMENT ASSOCIATION

The Maryland Board of Public Works authorizes you to:

- I. Construct a 140-foot long by 40-foot wide headland breakwater within a maximum of 210 feet channelward of the mean high-water line.
- II. Construct a 50-foot long by 24-foot wide groin within a maximum of 50 feet channelward of the mean high-water line.

Magothy River at Cape St. Claire Improvement Association property on River Bay Road directly northwest of where the Little Magothy River meets the Magothy River, Annapolis, Anne Arundel County, Maryland

Issuance of this Tidal Wetlands License constitutes the State's determination that the authorized activities are consistent with the Maryland Coastal Zone Management Program, as required by Section 307 of the Federal Coastal Zone Management Act of 1972, as amended [16 U.S.C. §1456]. Accordingly, the State concurs with the Licensee's certification in the Joint Permit Application that the project complies with and will be conducted in a manner consistent with the Maryland CZMP.

THIS LICENSE AUTHORIZES YOU TO PERFORM THE WORK ONLY IF YOU COMPLY WITH THE FOLLOWING SPECIAL CONDITION(S):

Licensee shall not perform any construction from November 15 through March 1 of any year to protect wintering waterfowl. The proposed project site is located in a Historic Waterfowl Concentration Area.

THIS LICENSE AUTHORIZES YOU TO PERFORM THE WORK ONLY IF YOU COMPLY WITH THE FOLLOWING STANDARD CONDITIONS:

1. Licensee shall conduct the authorized work in accordance with the plans and drawings dated June 29, 2020, which are hereby incorporated into this License.
2. Until the authorized work is complete, Licensee shall have available at the site a copy of this License including the plans and drawings.


3. This License constitutes Maryland's authorization to conduct the authorized work under the State Tidal Wetlands Law. This License does not bestow any other federal, State, or local government authorization.
4. Licensee shall have all proposed work above Mean High Water reviewed and authorized by the local county Department of Planning and Zoning or applicable agency.
5. Licensee shall notify MDE's Inspection and Compliance Program by phone (410-537-3510) AND in writing (MDE, Inspection and Compliance Program, 1800 Washington Boulevard, Baltimore, MD 21230) of the following:
 - start date at least five business days before beginning work; and
 - completion date no more than five business days after project completion.
6. If MDE has issued a Water Quality Certification with respect to the authorized work, Licensee shall comply with all conditions of that certification.
7. Licensee shall conduct the authorized work in accordance with Critical Area Commission requirements. This License does not authorize disturbance in the Buffer. If authorized work will disturb the Buffer, Licensee shall have a Commission-approved or locally-approved Buffer Management Plan before beginning the authorized work.

"Buffer" means the 100-foot Critical Area Buffer and any expanded area that is immediately landward of the mean high water line of the tidal waters or is immediately landward of tidal wetlands. The Buffer includes expanded contiguous area if the contiguous area includes steep slopes, hydric soil, or highly erodible soil, or otherwise meets the criteria of COMAR 27.01.09.01.E(7). "Disturbance" means any alteration or change to the land including any amount of clearing. Clearing includes vegetation removal, grading, and construction activity.
8. Licensee may not fill, dredge, or otherwise alter or destroy tidal marsh or its vegetation unless this License specifically authorizes the activity.
9. Licensee may not stockpile material in State tidal wetlands or State tidal waters of the U.S.
10. Licensee shall allow unfettered public use of State wetlands and State tidal waters of the U.S.
11. This License does not transfer a property interest of the State.
12. Licensee shall file a Miss Utility ticket for the proposed work at least 10 days before beginning work. *Miss Utility: 800-257-7777*
13. Licensee shall ensure that structures (for example, piers and piles) removed from the site are taken to an upland disposal facility approved by MDE's Inspection and Compliance Program.
14. If the authorized work impacts more than 5,000 square feet or includes 100 or more cubic yards of fill, Licensee shall conduct the authorized work in accordance with a locally-approved Soil Erosion and Sediment Control Plan.
15. If the authorized work is not performed by the property owner, all work performed under this Tidal Wetlands License shall be conducted by a marine contractor licensed by the Marine Contractors Licensing Board (MCLB) in accordance with Title 17 of the Environment Article of Annotated Code of Maryland. A list of licensed marine contractors may be obtained by contacting the MCLB at 410-537-3249, by email at *MDE.MCLB@maryland.gov* or by accessing the Maryland Department of the Environment, Environmental Boards webpage.
16. Licensee shall allow State officials and employees to make inspections at reasonable times and cooperate with those inspections.

- 17. This License is granted only to the Licensee. Licensee may transfer the license only with written approval from the Board of Public Works. If the Board of Public Works approves the transfer, the transferee is subject to all License terms and conditions.
- 18. Licensee shall indemnify, defend, and save harmless the State of Maryland, its officials, officers, and employees from and against any and all liability, suits, claims, and actions of whatever kind, caused by or arising from, the work this License authorizes.
- 19. The Board of Public Works or its Wetlands Administrator may modify, suspend, or revoke this License in its reasonable discretion.
- 20. This License expires July 1, 2023. If the authorized work is not completed by the expiration date, all activity must stop.

Note: A three-year license may be renewed for one additional three-year term if the Licensee requests an extension before the expiration date and all other conditions are met. A six-year license may not be renewed; instead Licensee must reapply to MDE for a new license. Contact the Board of Public Works to determine if this License may be extended.
 Board of Public Works: 410-260-7791

By the authority of the Board of Public Works:


 Digitally signed by John T. Gontrum
 Date: 2020.07.10 09:05:08 -04'00'

John T. Gontrum, Executive Secretary

Effective Date: July 1, 2020
 Approved as: Secretary's Agenda Item 6
 Board of Public Works Meeting Date: July 1, 2020

I accept this License and all its conditions.

7/8/2020
 Date


 Licensee (Signature)

G. Beau Breeden
 Name (Printed)

Beaches & Parks Chair Cape St. Claire Improvement Association
 Title

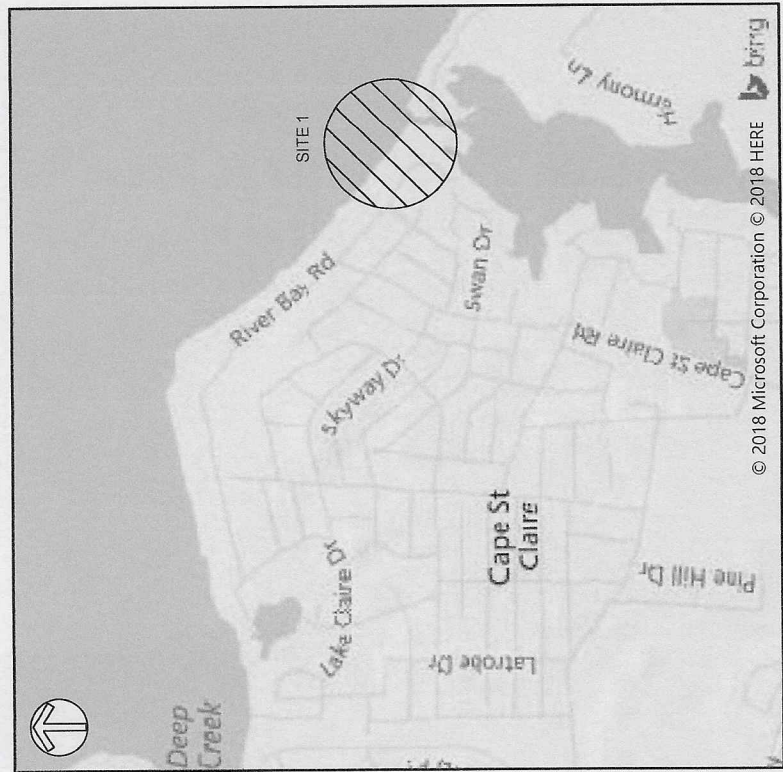
deaubreeden@escia.org
 Email (To receive completed license.)

CAPE ST CLAIRE SHORELINE ENHANCEMENT - MAIN BEACH

ANNE ARUNDEL COUNTY, MD

VICINITY MAP

SITE MAP



© 2018 Microsoft Corporation © 2018 HERE

SCALE: 1" = 2000'



© 2018 DigitalGlobe © CNES (2018) Distribution Airbus DS

SCALE: 1" = 500'

SHEET LIST TABLE

Sheet Number	Sheet Title
1	VICINITY MAP AND AERIAL PHOTO
2	SITE INDEX
3	EXISTING CONDITIONS
4	EXISTING CONDITIONS
5	PROPOSED CONDITIONS
6	PROPOSED CONDITIONS
7	IMPACT PLATES
8	IMPACT PLATES
9	CROSS SECTIONS
10	CROSS SECTIONS

18 W 1181
163289
1025.20

CAPE ST CLAIRE IMPROVEMENT ASSOCIATION
1223 RIVER BAY ROAD
ANNAPOLIS, MD 21409

DATE ISSUES / REVISIONS
12/21/2018 INITIAL SUBMITTAL
04/01/2019 PRE-FINAL SUBMITTAL
01/23/2020 FINAL SUBMITTAL
04/27/2020 REVISIONS SUBMITTAL

The Stables Building 2081 Clipper Park Road
Baltimore, MD 21211 / ph: 410.554.0156
fx: 410.554.0168 / www.biohabitats.com
Restoring the Earth's Ecological Stewardship

410 South Second St. Denton, MD 21629
ph: 410.924.4316
http://www.sustainable-science.com

CAPE ST. CLAIRE SHORELINE ENHANCEMENT - MAIN BEACH

TITLE: VICINITY MAP AND AERIAL PHOTO

PROJECT NO.: 17023.01

SCALE: AS SHOWN

BY: AM, TB
CHECK: EM

DWG. NO.: 1 OF 10

IMPACTS:

TOTAL OPEN WATER (BREAKWATER)	= 4,256 SF
TOTAL	= 4,256 SF

MAIN BEACH

CHESAPEAKE BAY

SHEET 3, 5, & 7

SHEET 4, 6, & 8

LITTLE MAGOTHY RIVER

N: 504100.0
E: 1473050.0

N: 502400.0
E: 1473050.0

N: 502400.0
E: 1473150.0



CAPE ST CLAIRE IMPROVEMENT
ASSOCIATION
1223 RIVER BAY ROAD
ANNAPOLIS, MD 21409

DATE	ISSUES / REVISIONS
12/21/2018	INITIAL SUBMITTAL
04/01/2019	PRE-FINAL SUBMITTAL
01/23/2020	FINAL SUBMITTAL
04/27/2020	REVISIONS SUBMITTAL

18461181
163289
1.25.20

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 Baltimore, MD 21211 / ph: 410.554.0156
 fx: 410.554.0168 / www.biohabitats.com
Restores the Earth's Inspires Ecological Sustainability

**SUSTAINABLE
SCIENCE LLC**

410 South Second St. Denton, MD 21629
ph: 410.824.4316
http://www.sustainable-science.com

CAPE ST. CLAIRE
SHORELINE
ENHANCEMENT -
MAIN BEACH

TITLE: SITE INDEX

PROJECT NO.: 17023.01

SCALE: 1" = 300'

BY: AM, TB
CHECK: EM

DWG. NO.: 2 OF 10

CAPE ST. CLAIRE IMPROVEMENT ASSOCIATION
 1223 RIVER BAY ROAD
 ANNAPOLIS, MD 21409

DATE	ISSUES / REVISIONS
12/21/2018	INITIAL SUBMITTAL
04/01/2019	PRE-FINAL SUBMITTAL
01/23/2020	FINAL SUBMITTAL
04/27/2020	REVISIONS SUBMITTAL

18W L 1121
 163289
 1.23.20

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 http://www.sustainable-science.com

CAPE ST. CLAIRE SHORELINE ENHANCEMENT - MAIN BEACH

TITLE: EXISTING CONDITIONS

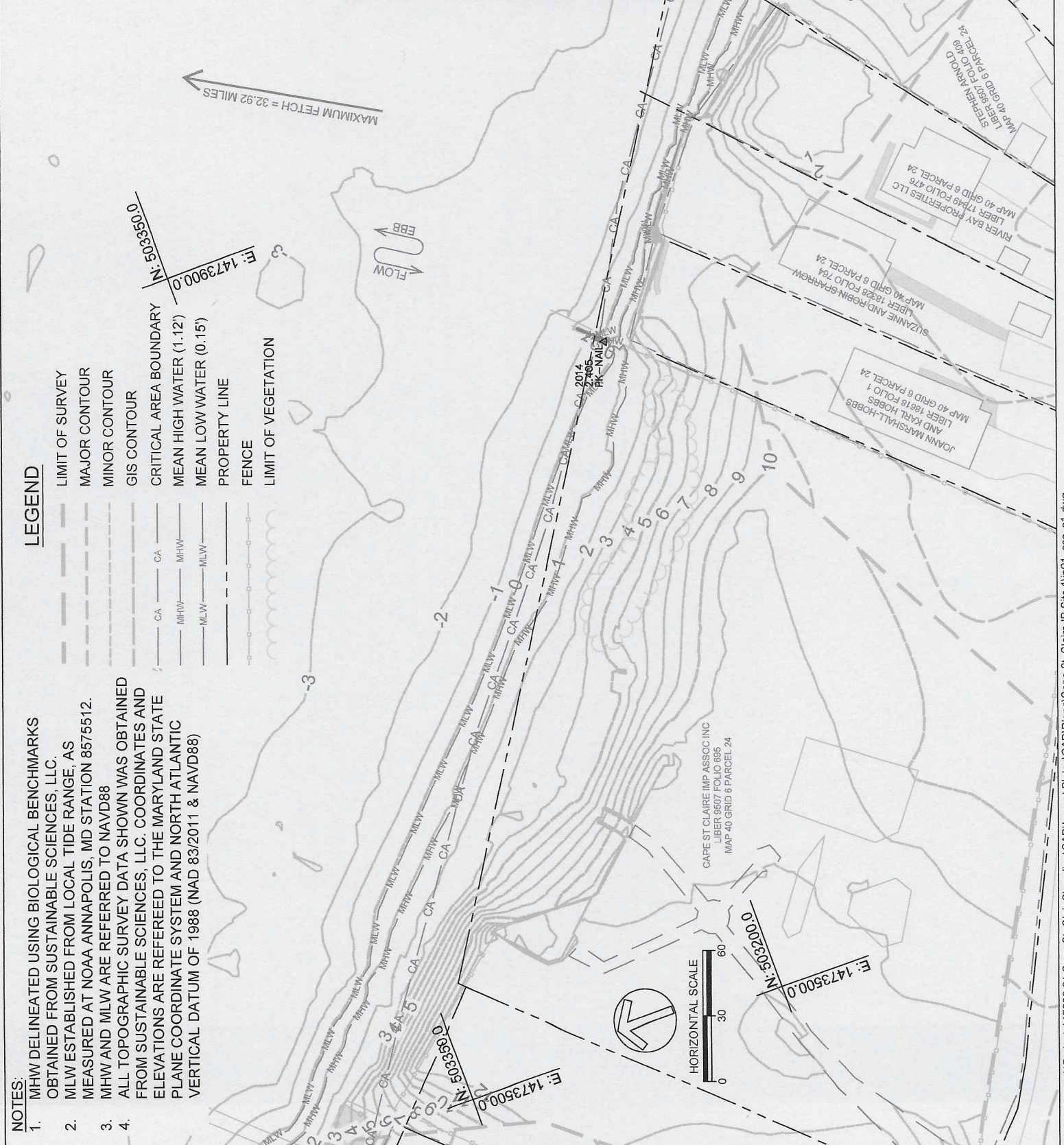
PROJECT NO.: 17023.01

SCALE: 1" = 60'

BY: AM, TB CHECK: EM

DWG. NO.: 3 OF 10

MATCHLINE - SHEET 4



CAPE ST CLAIRE IMPROVEMENT
ASSOCIATION
1223 RIVER BAY ROAD
ANNAPOLIS, MD 21409

DATE	ISSUES / REVISIONS
12/21/2018	INITIAL SUBMITTAL
04/01/2019	PRE-FINAL SUBMITTAL
01/23/2020	FINAL SUBMITTAL
04/27/2020	REVISIONS SUBMITTAL

18 WL 1181
163289
1.25-20

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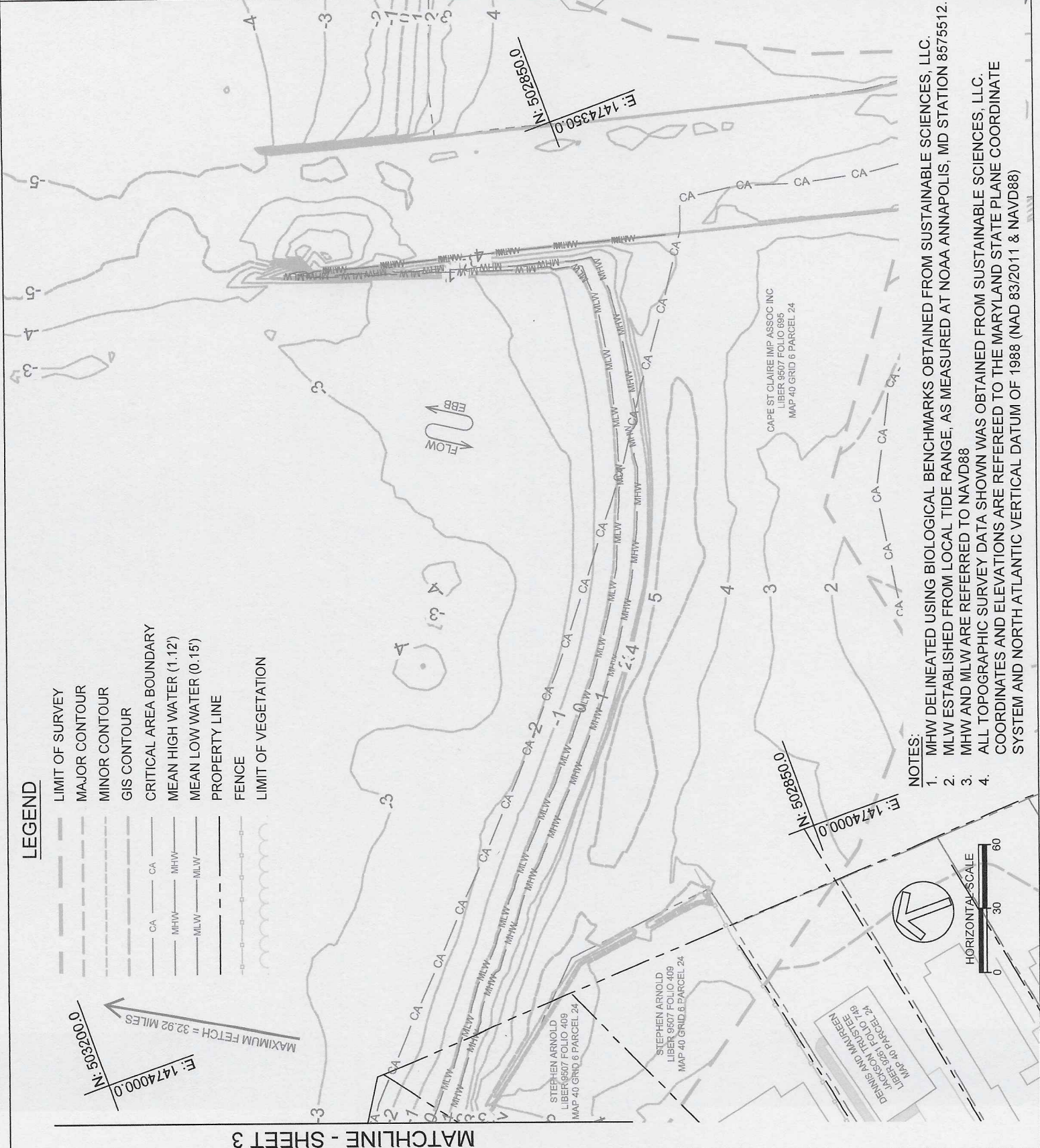
SUSTAINABLE SCIENCE LLC
410 South Second St. Denton, MD 21629
ph: 4109244316
http://www.sustainable-science.com

CAPE ST. CLAIRE
SHORELINE
ENHANCEMENT -
MAIN BEACH

TITLE: EXISTING
CONDITIONS
PROJECT NO.: 17023.01

SCALE: 1" = 60'

BY: AM, TB
CHECK: EM
DWG. NO.: 4 OF 10



LEGEND

- LIMIT OF SURVEY
- MAJOR CONTOUR
- MINOR CONTOUR
- GIS CONTOUR
- CRITICAL AREA BOUNDARY
- MEAN HIGH WATER (1.12')
- MEAN LOW WATER (0.15')
- PROPERTY LINE
- FENCE
- LIMIT OF VEGETATION

- NOTES:**
1. MHW DELINEATED USING BIOLOGICAL BENCHMARKS OBTAINED FROM SUSTAINABLE SCIENCES, LLC.
 2. MLW ESTABLISHED FROM LOCAL TIDE RANGE, AS MEASURED AT NOAA ANNAPOLIS, MD STATION 8575512.
 3. MHW AND MLW ARE REFERRED TO NAVD88
 4. ALL TOPOGRAPHIC SURVEY DATA SHOWN WAS OBTAINED FROM SUSTAINABLE SCIENCES, LLC. COORDINATES AND ELEVATIONS ARE REFERRED TO THE MARYLAND STATE PLANE COORDINATE SYSTEM AND NORTH ATLANTIC VERTICAL DATUM OF 1988 (NAD 83/2011 & NAVD88)

CAPE ST CLAIRE IMPROVEMENT
ASSOCIATION
1223 RIVER BAY ROAD
ANNAPOLIS, MD 21409

DATE	ISSUES / REVISIONS
12/21/2018	INITIAL SUBMITTAL
04/01/2019	PRE-FINAL SUBMITTAL
01/23/2020	FINAL SUBMITTAL
04/27/2020	REVISIONS SUBMITTAL
06/30/2020	REVISIONS SUBMITTAL

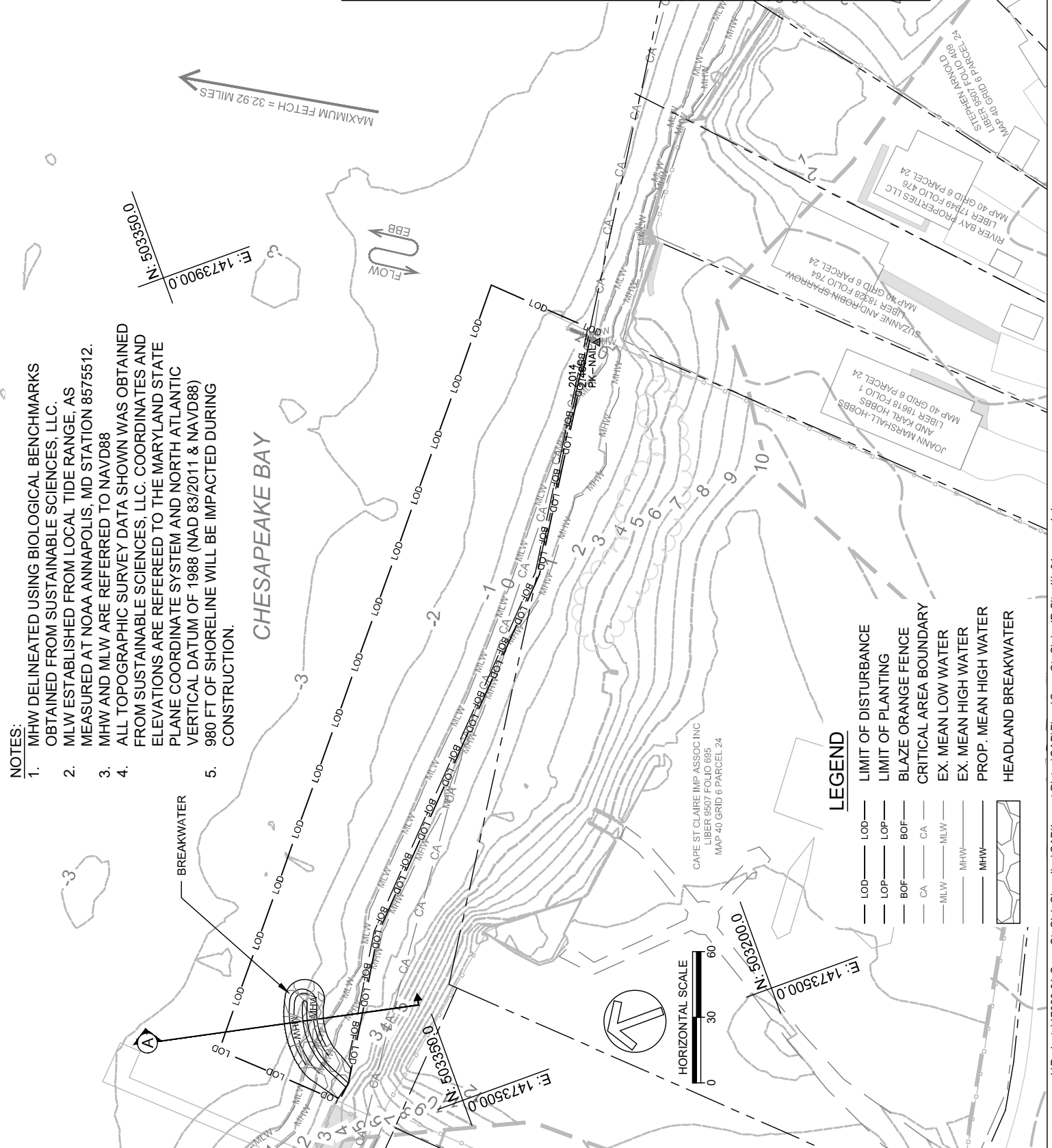
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ph: 410.924.4316
http://www.sustainable-science.com

**CAPE ST. CLAIRE
SHORELINE
ENHANCEMENT -
MAIN BEACH**

TITLE:	PROPOSED CONDITIONS
PROJECT NO.:	17023.01
SCALE:	1" = 60'
BY:	AM, TB
CHECK:	EM
DWG. NO.:	5 OF 10

MATCHLINE - SHEET 6



- NOTES:**
- MHW DELINEATED USING BIOLOGICAL BENCHMARKS OBTAINED FROM SUSTAINABLE SCIENCES, LLC.
 - MLW ESTABLISHED FROM LOCAL TIDE RANGE, AS MEASURED AT NOAA ANNAPOLIS, MD STATION 8575512.
 - MHW AND MLW ARE REFERRED TO NAVD88
 - ALL TOPOGRAPHIC SURVEY DATA SHOWN WAS OBTAINED FROM SUSTAINABLE SCIENCES, LLC. COORDINATES AND ELEVATIONS ARE REFERRED TO THE MARYLAND STATE PLANE COORDINATE SYSTEM AND NORTH ATLANTIC VERTICAL DATUM OF 1988 (NAD 83/2011 & NAVD88)
 - 980 FT OF SHORELINE WILL BE IMPACTED DURING CONSTRUCTION.

LEGEND

LOD	—	LIMIT OF DISTURBANCE
LOP	—	LIMIT OF PLANTING
BOF	—	BLAZE OF ORANGE FENCE
CA	—	CRITICAL AREA BOUNDARY
MLW	—	EX. MEAN LOW WATER
MHW	—	EX. MEAN HIGH WATER
MHW	—	PROP. MEAN HIGH WATER
	—	HEADLAND BREAKWATER

CAPE ST CLAIRE IMPROVEMENT ASSOCIATION
 1223 RIVER BAY ROAD
 ANNAPOLIS, MD 21409

DATE ISSUES / REVISIONS
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18 W/L 1181
 163289
 1.23.20

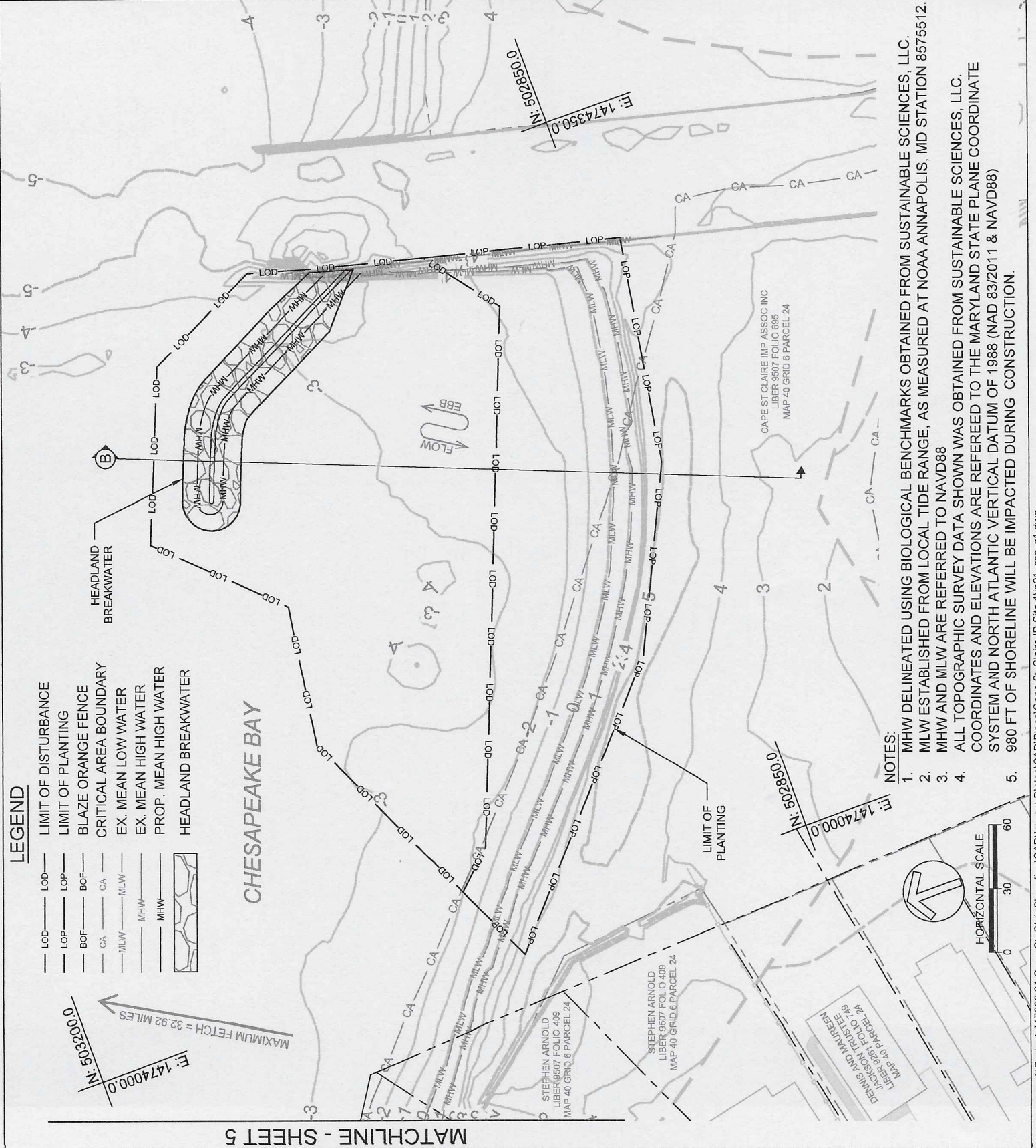
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 http://www.sustainable-science.com

CAPE ST. CLAIRE SHORELINE ENHANCEMENT - MAIN BEACH

TITLE: PROPOSED CONDITIONS
 PROJECT NO.: 17023.01
 SCALE: 1" = 60'

BY: AM, TB CHECK: EM
 DWG. NO.: 6 OF 10



- LEGEND**
- LOD ——— LIMIT OF DISTURBANCE
 - LOP ——— LIMIT OF PLANTING
 - BOF ——— BLAZE ORANGE FENCE
 - CA ——— CRITICAL AREA BOUNDARY
 - MLW ——— EX. MEAN LOW WATER
 - MHW ——— EX. MEAN HIGH WATER
 - MHW ——— PROP. MEAN HIGH WATER
 - [Pattern] ——— HEADLAND BREAKWATER

CHESAPEAKE BAY

MAXIMUM FETCH = 32.92 MILES
 N. 503200.0
 E. 1474000.0

STEPHEN ARNOLD
 LIBER 9507 FOLIO 409
 MAP 40 GRID 6 PARCEL 24

STEPHEN ARNOLD
 LIBER 9507 FOLIO 409
 MAP 40 GRID 6 PARCEL 24

DENING AND MARENTE
 LIBER 9261 FOLIO 748
 MAP 40 PARCEL 24

CAPE ST CLAIRE IMP ASSOC INC
 LIBER 9507 FOLIO 695
 MAP 40 GRID 6 PARCEL 24

HORIZONTAL SCALE
 0 30 60

NOTES:
 1. MHW DELINEATED USING BIOLOGICAL BENCHMARKS OBTAINED FROM SUSTAINABLE SCIENCES, LLC.
 2. MLW ESTABLISHED FROM LOCAL TIDE RANGE, AS MEASURED AT NOAA ANNAPOLIS, MD STATION 8575512.
 3. MHW AND MLW ARE REFERRED TO NAVD88
 4. ALL TOPOGRAPHIC SURVEY DATA SHOWN WAS OBTAINED FROM SUSTAINABLE SCIENCES, LLC. COORDINATES AND ELEVATIONS ARE REFERRED TO THE MARYLAND STATE PLANE COORDINATE SYSTEM AND NORTH ATLANTIC VERTICAL DATUM OF 1988 (NAD 83/2011 & NAVD88)
 5. 980 FT OF SHORELINE WILL BE IMPACTED DURING CONSTRUCTION.

CAPE ST CLAIRE IMPROVEMENT ASSOCIATION
1223 RIVER BAY ROAD
ANNAPOLIS, MD 21409

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CAPE ST. CLAIRE SHORELINE ENHANCEMENT - MAIN BEACH

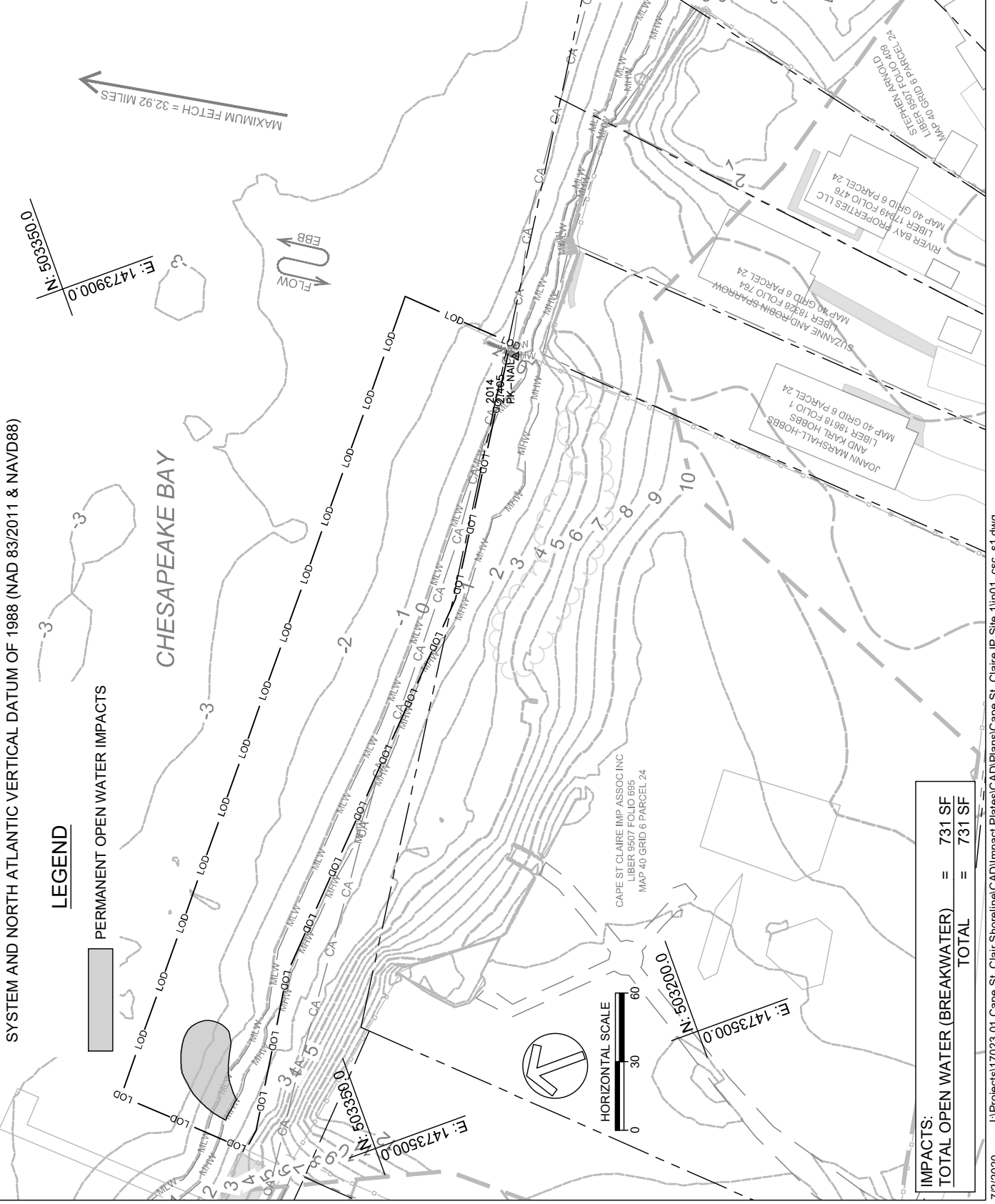
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PROJECT NO.:	17023.01
SCALE:	1" = 60'
BY:	AM, TB
CHECK:	EM
DWG. NO.:	7 OF 10

MATCHLINE - SHEET 8

- NOTES:**
- MHW DELINEATED USING BIOLOGICAL BENCHMARKS OBTAINED FROM SUSTAINABLE SCIENCES, LLC.
 - MLW ESTABLISHED FROM LOCAL TIDE RANGE, AS MEASURED AT NOAA ANNAPOLIS, MD STATION 8575512.
 - MHW AND MLW ARE REFERRED TO NAVD88
 - ALL TOPOGRAPHIC SURVEY DATA SHOWN WAS OBTAINED FROM SUSTAINABLE SCIENCES, LLC. COORDINATES AND ELEVATIONS ARE REFERRED TO THE MARYLAND STATE PLANE COORDINATE SYSTEM AND NORTH ATLANTIC VERTICAL DATUM OF 1988 (NAD 83/2011 & NAVD88)

LEGEND

PERMANENT OPEN WATER IMPACTS



IMPACTS:	
TOTAL OPEN WATER (BREAKWATER)	= 731 SF
TOTAL	= 731 SF

CAPE ST CLAIRE IMPROVEMENT ASSOCIATION
 1223 RIVER BAY ROAD
 ANNAPOLIS, MD 21409

DATE	ISSUES / REVISIONS
12/21/2018	INITIAL SUBMITTAL
04/01/2019	PRE-FINAL SUBMITTAL
01/23/2020	FINAL SUBMITTAL
04/27/2020	REVISIONS SUBMITTAL

19 WL 1181
 663 289
 1-23-20

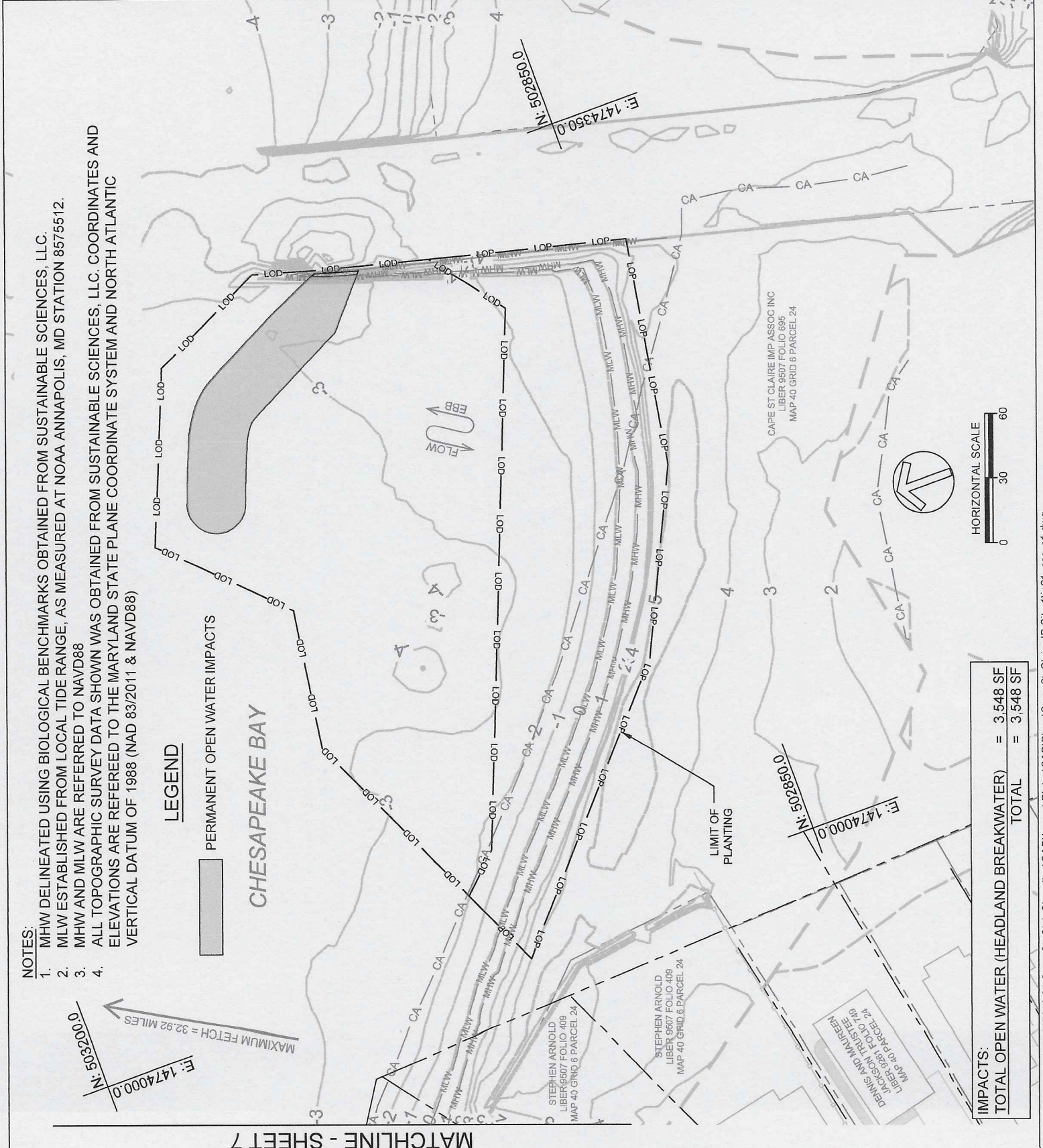
Biohabitats
 The Sables Building 2081 Clipper Park Road
 Baltimore, MD 21211 / ph: 410.554.0156
 Ex: 410.554.0168 / www.biohabitats.com
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SUSTAINABLE SCIENCE LLC
 410 South Second St. Denton, MD 21629
 ph: 410.924.4316
 http://www.sustainable-science.com

CAPE ST. CLAIRE SHORELINE ENHANCEMENT - MAIN BEACH

TITLE: IMPACT PLATES
 PROJECT NO.: 17023.01
 SCALE: 1" = 60'

BY: AM, TB
 CHECK: EM
 DWG. NO.: 8 OF 10



NOTES:
 1. MHW DELINEATED USING BIOLOGICAL BENCHMARKS OBTAINED FROM SUSTAINABLE SCIENCES, LLC.
 2. MLW ESTABLISHED FROM LOCAL TIDE RANGE, AS MEASURED AT NOAA ANNAPOLIS, MD STATION 8575512.
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LEGEND
 PERMANENT OPEN WATER IMPACTS

IMPACTS:

TOTAL OPEN WATER (HEADLAND BREAKWATER)	= 3,548 SF
TOTAL	= 3,548 SF

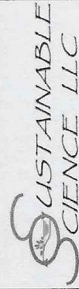
CAPE ST CLAIRE IMPROVEMENT
ASSOCIATION
1223 RIVER BAY ROAD
ANNAPOLIS, MD 21409

DATE	ISSUES / REVISIONS
12/21/2018	INITIAL SUBMITTAL
04/01/2019	PRE-FINAL SUBMITTAL
01/23/2020	FINAL SUBMITTAL
04/27/2020	REVISIONS SUBMITTAL

18461181
163289
1.23.20



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CAPE ST. CLAIRE
SHORELINE
ENHANCEMENT -
MAIN BEACH

TITLE: CROSS SECTIONS

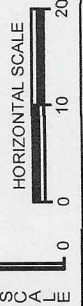
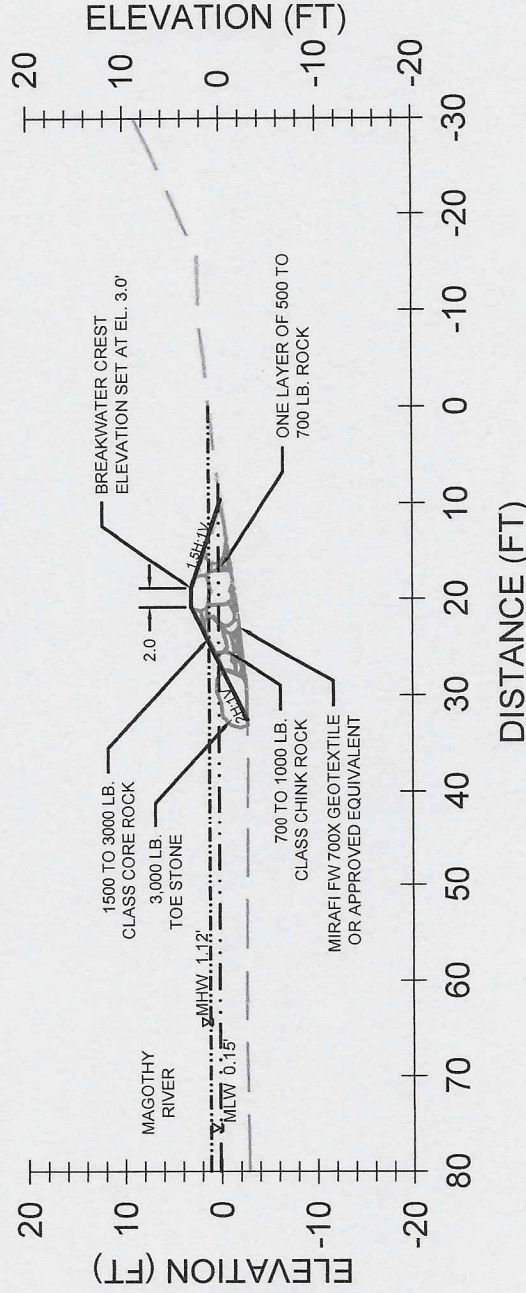
PROJECT NO.: 17023.01

SCALE: AS SHOWN

BY: AM, TB
CHECK: EM

DWG. NO.: 9 OF 10

SECTION A - BREAKWATER



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ANNAPOLIS, MD 21409

DATE	ISSUES / REVISIONS
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04/01/2019	PRE-FINAL SUBMITTAL
01/23/2020	FINAL SUBMITTAL
04/27/2020	REVISIONS SUBMITTAL

18 WL 1181
163289
1.23.25



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CAPE ST. CLAIRE SHORELINE ENHANCEMENT - MAIN BEACH

TITLE: CROSS SECTIONS

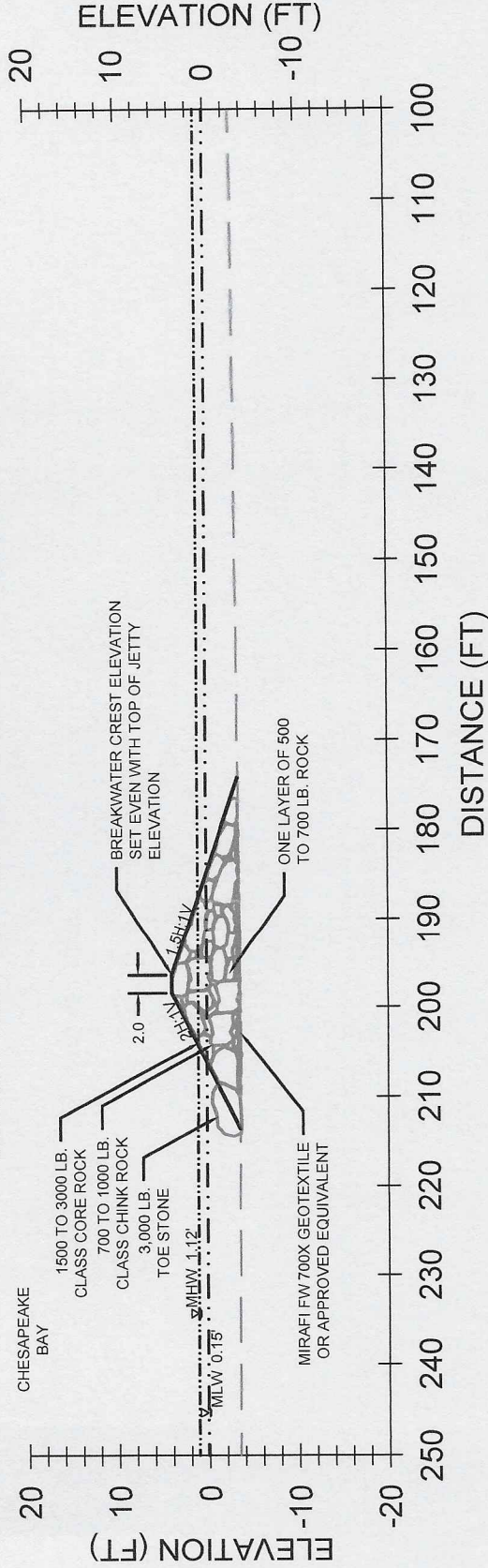
PROJECT NO.: 17023.01

SCALE: AS SHOWN

BY: AM, TB
CHECK: EM

DWG. NO.: 10 OF 10

SECTION B - HEADLAND BREAKWATER



SECTION B - HEADLAND BREAKWATER

