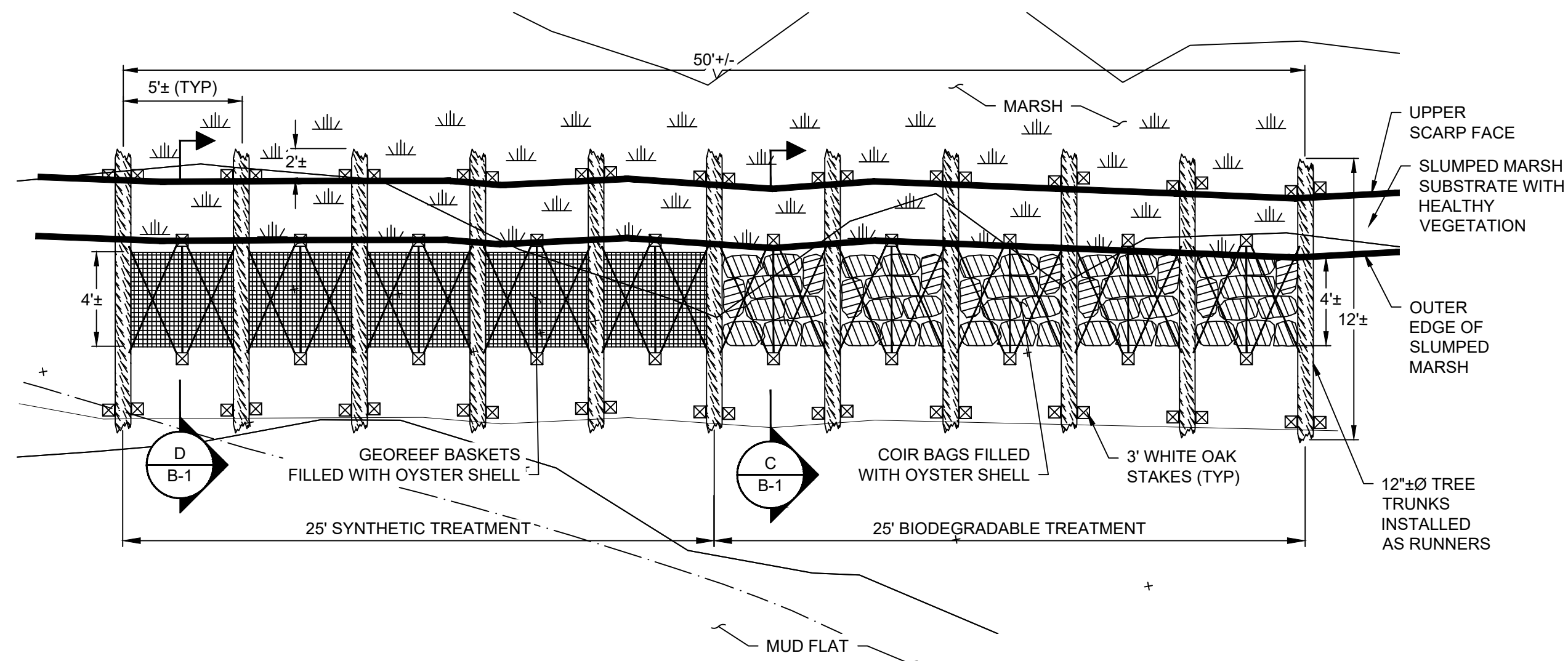


LAYOUT PLAN
SCALE: 1" = 30'



A PLAN VIEW OF LIVING SHORELINE TREATMENT
SCALE: 1" = 5'-0"

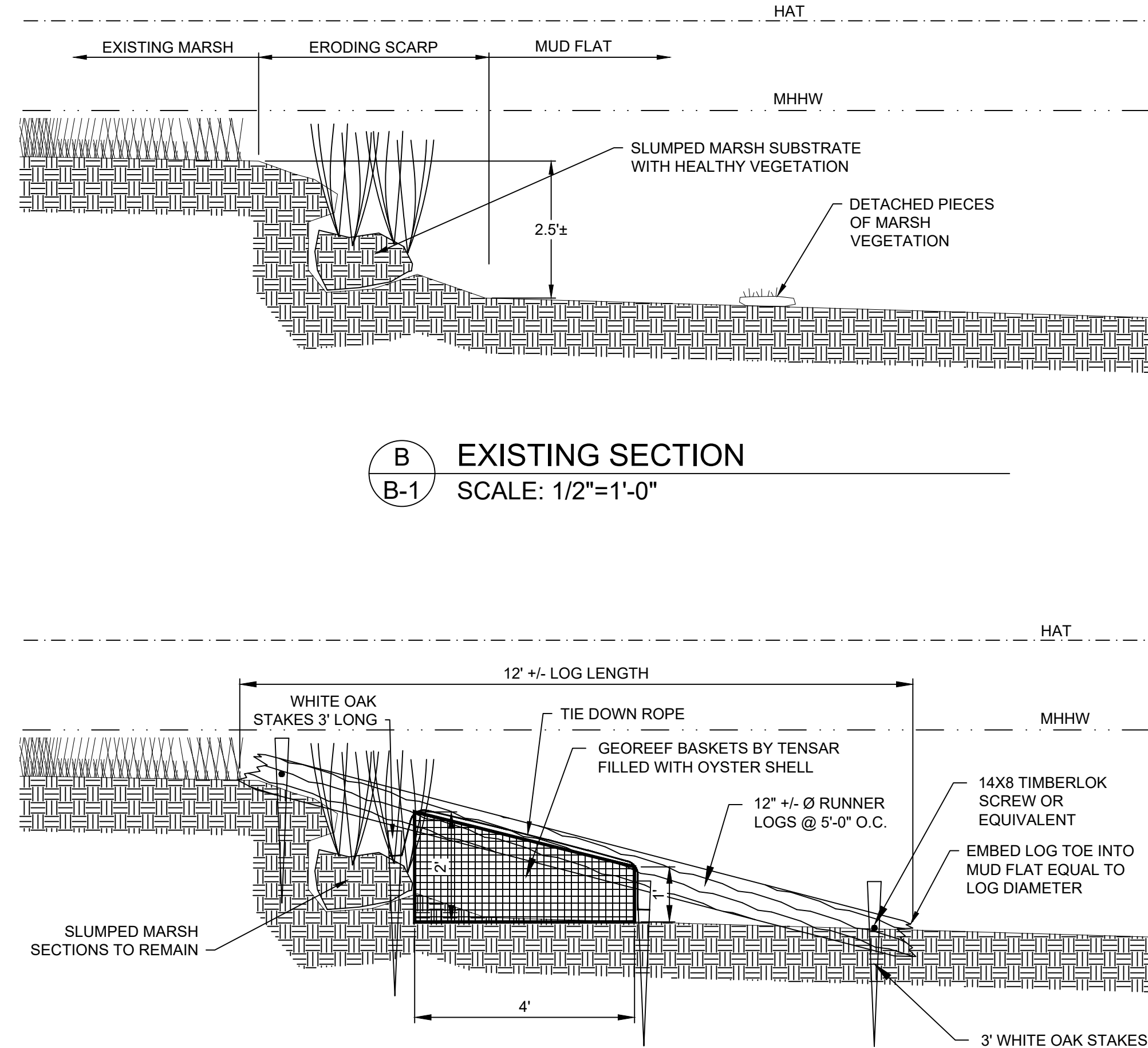
ELEVATION	MLLW	NAVD88*
BFE	+17.13	+12.00
HAT	+11.63	+6.50
MHHW	+9.99	+4.86
MHW	+9.55	+4.42
MLW	+0.29	-4.84
MLLW	0.00	-5.13

*PROJECT DATUM

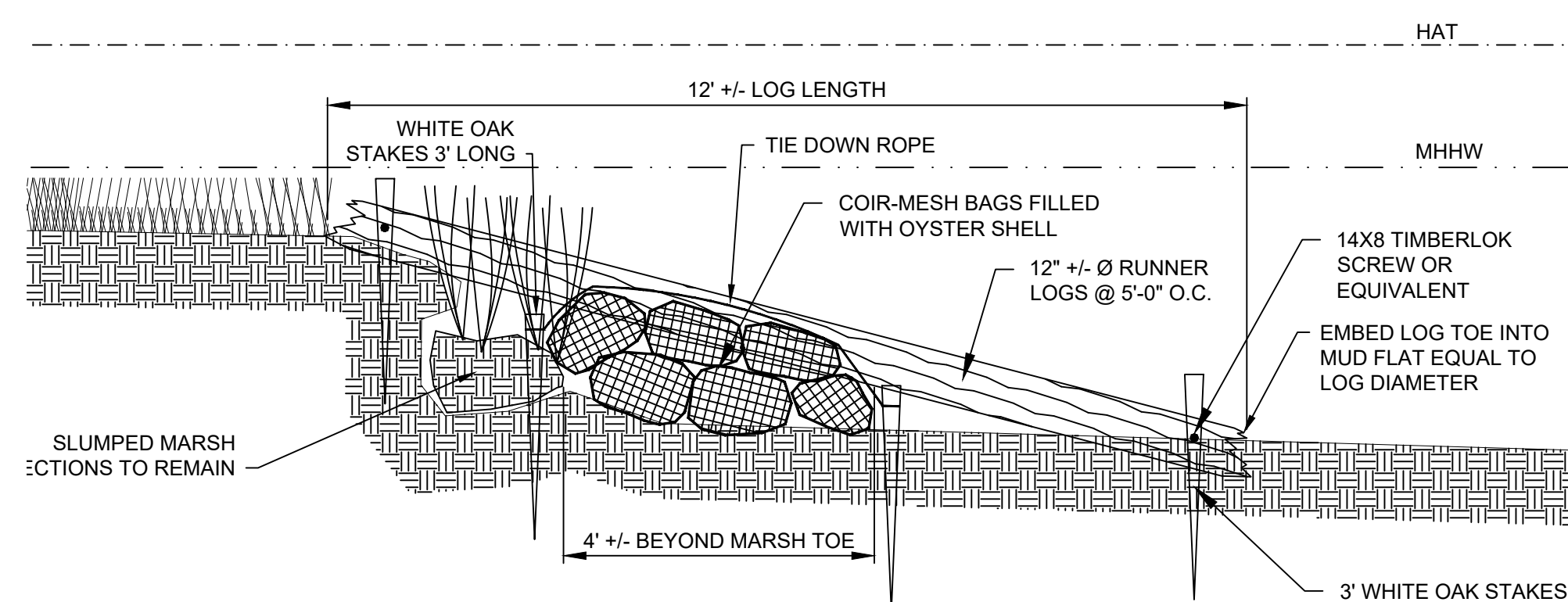


NO.	DATE	ISSUE/REVISION	APP
B	11/13/2019	REVISED MATERIAL SPECIFICATIONS	DB
A	7/23/2019	PRELIMINARY DESIGN	VH
NO.			APP

C GEOREEF TREATMENT SECTION
SCALE: 1/2" = 1'-0"



C GEOREEF TREATMENT SECTION
SCALE: 1/2" = 1'-0"



D COIR BAG TREATMENT SECTION
SCALE: 1/2" = 1'-0"

- SURVEY AND PROPERTY NOTES**
- THE SUBJECT PARCEL IS DEPICTED ON TOWN OF BRUNSWICK TAX MAP 29, LOT 4.
 - THE RECORD OWNER IS THE TOWN OF BRUNSWICK. A CONSERVATION EASEMENT HELD BY BRUNSWICK-TOPSHAM LAND TRUST.
 - PROJECT BASEPLAN HAS BEEN COMPILED FROM MAINE GIS 2-FT CONTOUR DATA, PARCEL BOUNDARIES, ORTHOIMAGERY, AND ENVIRONMENTAL HABITAT LAYERS.
 - THE ENTIRE PROJECT AREA IS LOCATED IN AN AREA THAT IS MAPPED AS TIDAL WADING WATERFOWL HABITAT.
 - MARSH SURVEY POINT DATA DEPICTED HEREON WAS COLLECTED BY PETER SLOVINSKY OF MAINE GEOLOGICAL SURVEY DEPARTMENT OF AGRICULTURE, CONSERVATION AND FORESTRY, IN LATE 2018, AND CAN REFLECT THE CONDITIONS AS THEY EXISTED DURING THE TIME OF THE SURVEY.

- CONSTRUCTION ACCESS AND STAGING:**
- ACCESS TO THE PROJECT AREA FOR MATERIAL AND EQUIPMENT DELIVERIES SHALL BE BY WATER USING AIRBOATS FROM WHARTON POINT BOAT LAUNCH. ACCESS SHALL BE ALONG THE DESIGNATED ACCESS ROUTE SHOWN ON THIS PLAN. AVOID IMPACTING MARSH VEGETATION DURING SITE ACCESS.
 - ACCESS FOR PERSONNEL MAY BE OVER THE UPLAND PROPERTY USING THE EXISTING TRAILS FROM THE PARKING AREA ON BUNGANUC ROAD.
 - WORK SHALL BE COMPLETED DURING LOW WATER CONDITIONS. NO IN-WATER WORK SHALL BE PERFORMED.
 - TRACKED OR WHEELED EQUIPMENT OPERATING ALONG THE MUDFLAT SHALL USE TEMPORARY MATS ALONG THE ACCESS ROUTE.
 - THERE IS NO STAGING AREA AVAILABLE ADJACENT TO THE WORK AREA. MATERIAL SHALL BE DELIVERED TO THE SITE IN QUANTITIES THAT CAN BE INSTALLED DURING A SINGLE TIDE CYCLE. ANY EXCESS MATERIALS SHALL BE REMOVED FROM THE SITE PRIOR TO HIGH TIDE.

- MATERIALS:**
- IN ACCORDANCE WITH REGULATORY REVIEW COMMENTS, MATERIALS USED TO CONTAIN OYSTER SHELL SHALL CONSIST OF SYNTHETIC MATERIALS FOR 50% OF THE TREATMENT LENGTH AND BIODEGRADABLE MATERIALS FOR 50% OF THE TREATMENT LENGTH.
 - SYNTHETIC SECTION SHALL UTILIZE GEOREEF BASKETS BY TENSAR INTERNATIONAL CORPORATION. GEOREEF BASKETS SHALL HAVE NOMINAL DIMENSIONS OF 4' WIDE X 5' OR 10' LONG X 2' HIGH. EMPTY GEOREEF BASKETS SHALL BE INSTALLED TO THE LINES AND GRADES SHOWN ON THE PLANS. BASKETS SHALL BE SITE-FILLED WITH CLEAN OYSTER SHELL TO THE DIMENSIONS INDICATED ON THE PLANS AND STITCHED SHUT.
 - BIODEGRADABLE SECTION SHALL CONSIST OF COIR-FABRIC BAGS WITH NOMINAL DIMENSIONS OF 18"X24" USING 1000 GSM COIR FABRIC. BAGS SHALL BE FILLED WITH CLEAN OYSTER SHELL OFFSITE AND DELIVERED TO THE SITE FOR INSTALLATION. BAGS SHALL BE INSTALLED TO THE LINES AND GRADES SHOWN ON THE PLANS.
 - STAKES SHALL BE 1 1/2" X 1 1/2" X 36" SAWN WHITE OAK.
 - RUNNER LOGS SHALL CONSIST OF 12"± DIAMETER LOGS WITH SECTIONS OF APPROXIMATELY 12-FT LONG.
 - LOGS SHALL BE SELECTED FROM EXISTING DOWNED LOGS LOCATED ALONG THE SHORE, OR SHALL UTILIZE TREES GATHERED FROM OFFSITE AND DELIVERED TO THE INSTALLATION SITE BY WATER.
 - SELECT LOGS THAT ARE STRAIGHT, SOLID, AND FREE OF ROT OR DEFECTS. HARDWOOD SPECIES SHALL BE PREFERRED. REMOVE LIMBS PRIOR TO MOVING LOGS TO THE INSTALLATION LOCATION.

- INSTALLATION:**
- INSTALL LOGS TO LINES AND LOCATIONS SHOWN ON PLANS.
 - EMBED UPPER AND LOWER ENDS OF LOGS INTO EXISTING SUBSTRATE TO PROVIDE TOP OF LOGS FLUSH WITH EXISTING SCARP AND MUDFLAT, RESPECTIVELY.
 - PLACE OYSTER BAG AND GEOREEF SECTIONS TO LINES AND LIMITS SHOWN ON PLANS. NOTE THAT PLAN GEOMETRY IS APPROXIMATE. THE INTENT IS FOR THE FACE OF THE TREATMENT TO FOLLOW THE SHAPE OF THE EXISTING SCARP FACE AND FOR THE TOE TO FOLLOW A UNIFORM LINE ALONG THE TREATMENT LENGTH. FINAL LAYOUT TO BE DETERMINED IN THE FIELD AT THE TIME OF INSTALLATION.
 - INSTALL WOOD STAKES PER THE PLAN AND DETAILS SHOWN ON THIS SHEET. STAKES SHALL BE INSTALLED SNUGLY TO THE SIDES OF EACH LOG AND LAGGED TO THE LOGS USING TIMBERLOK SCREWS PER THE DETAILS DEPICTED ON THIS SHEET.

CALCULATION OF IMPACTED AREAS BEYOND HAT:

COIR BAG TREATMENT SECTION	4 FT X 25 FT = 100 SF
GEOREEF TREATMENT SECTION	4 FT X 25 FT = 100 SF
RUNNER LOGS	11 X 8 SF = 132 SF
TOTAL	= 332 SF

LEGEND

EXISTING	MEGIS ELEVATION CONTOURS
---	MEGIS PARCEL BOUNDARIES
---	TIDAL WADING WATERFOWL HABITAT
---	SHOREBIRD HABITAT

PRELIMINARY

Designed:	VH
Checked:	DB
Drawn:	JF/AB
Submitted By:	DB
P.E. Number:	-



State of Maine Bureau of Real Estate
Management
Augusta, ME

GEI Project 1902025

Living Shoreline Pilot Program
Maquoit Bay Conservation Land
Brunswick, ME

SITE B:
OVERVIEW PLAN

DWG. NO.
B-1
SHEET NO.
3 OF 4