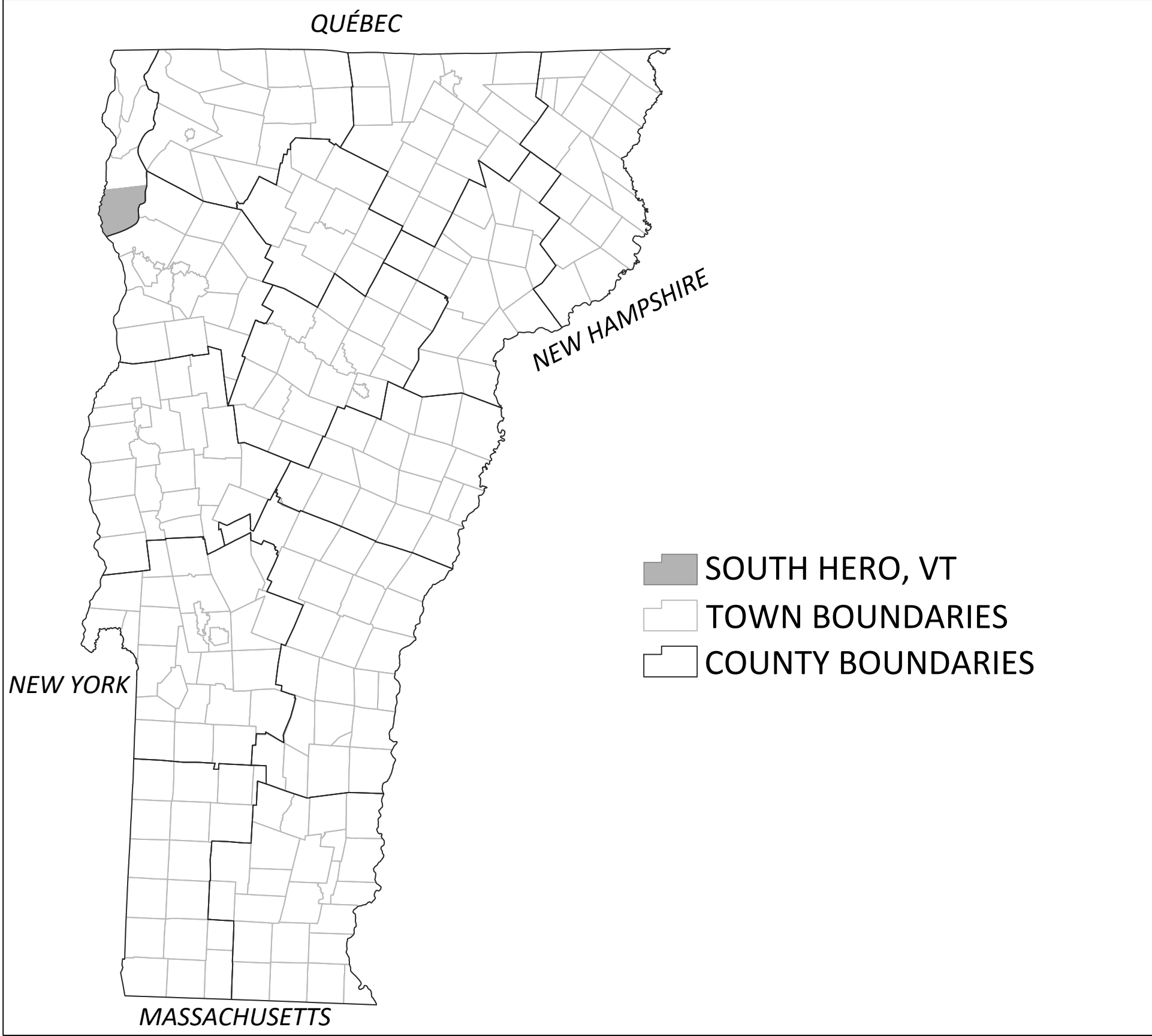




SOUTH HERO TOWN BEACH SHORELINE STABILIZATION

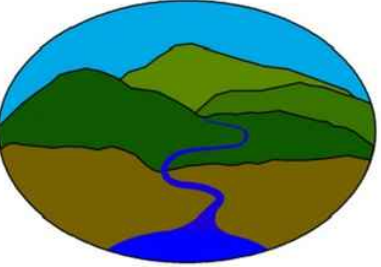
WEST SHORE ROAD, SOUTH HERO, VERMONT

DRAFT FINAL PLANS
6/12/2026

THE PROJECT IS LOCATED AT A POPULAR RECREATION SPOT ALONG LAKE CHAMPLAIN WHERE SHORELINE EROSION HAS CAUSED SOIL AND VEGETATION LOSS. THE PROJECT PROPOSES STABILIZING THE EROSION THROUGH BIOENGINEERING PRACTICES THAT PROVIDE ECOLOGICAL AND HABITAT BENEFITS IN ADDITION TO STABILITY.

DRAWING INDEX		
NO.	NAME	TITLE
1	EX-1	EXISTING CONDITIONS PLAN
2	PR-1	PROPOSED CONDITIONS PLAN
3	XS-1	SHORELINE CROSS SECTIONS
4	DT-1	CONSTRUCTION DETAILS

PREPARED BY:



Fitzgerald
Environmental
Associates, LLC

164 Main Street, Suite 2
Colchester, VT 05446
Telephone: 802.876.7778
www.fitzgeraldenvironmental.com

PREPARED FOR:



GRAND ISLE COUNTY
NATURAL RESOURCES
CONSERVATION DISTRICT

GRAND ISLE NRC
PO BOX 212
NORTH HERO, VT 05747



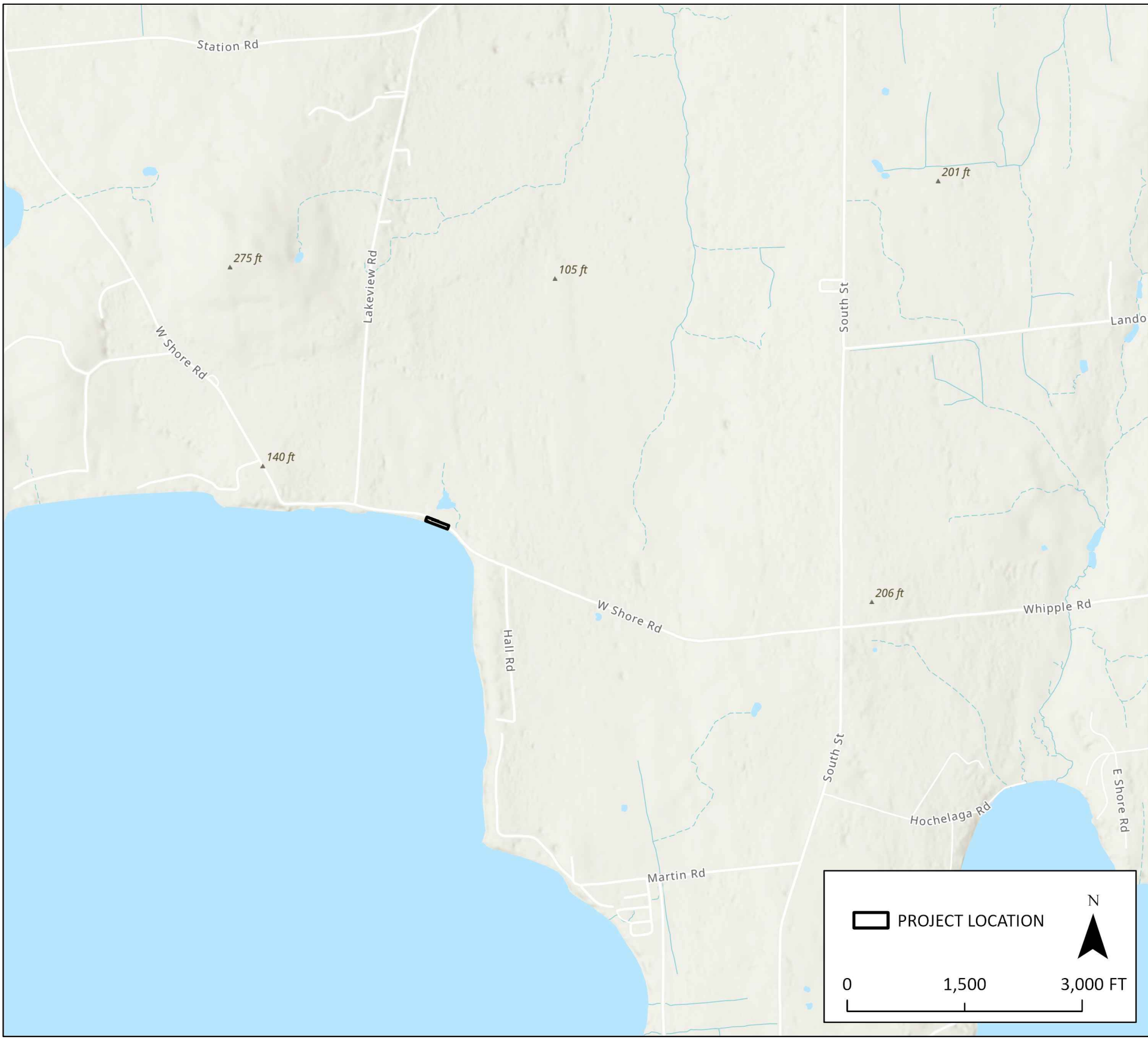
SOUTH HERO
LAND TRUST

SOUTH HERO LAND TRUST
106 COMMUNITY LANE
SOUTH HERO, VT 05486



FRIENDS OF
NORTHERN
LAKE CHAMPLAIN

FRIENDS OF NORTHERN
LAKE CHAMPLAIN
PO BOX 1145
ST ALBANS, VT 05487



EXISTING CONDITIONS AND SOURCE NOTES

- GEOGRAPHIC DATA AND PLANS ARE REFERENCED TO THE VERMONT STATE PLANE IN US SURVEY FEET (NAD83). ELEVATIONS ARE BASED ON NAVD88.
- PARCEL BOUNDARY DATA SHOWN ON THE PLANS ARE FROM VCGI.

S:\2025\25083_GIGNKCD_SOUTH_HERO_TOWN_BEACH\CAO\SHERTOWNBEACH.DWG 6/12/2026 2:06:32 PM



Fitzgerald Environmental Associates, LLC

164 Main Street, Suite 2
Colchester, VT 05446
Telephone: 802.876.7778
www.fitzgeraldenvironmental.com

DRAFT

SIGNATURE

REVISIONS		
#	DESCRIPTION	DATE

10 0 5 10

1" = 10'

N

EXISTING CONDITIONS PLAN

SOUTH HERO TOWN BEACH SHORELINE STABILIZATION

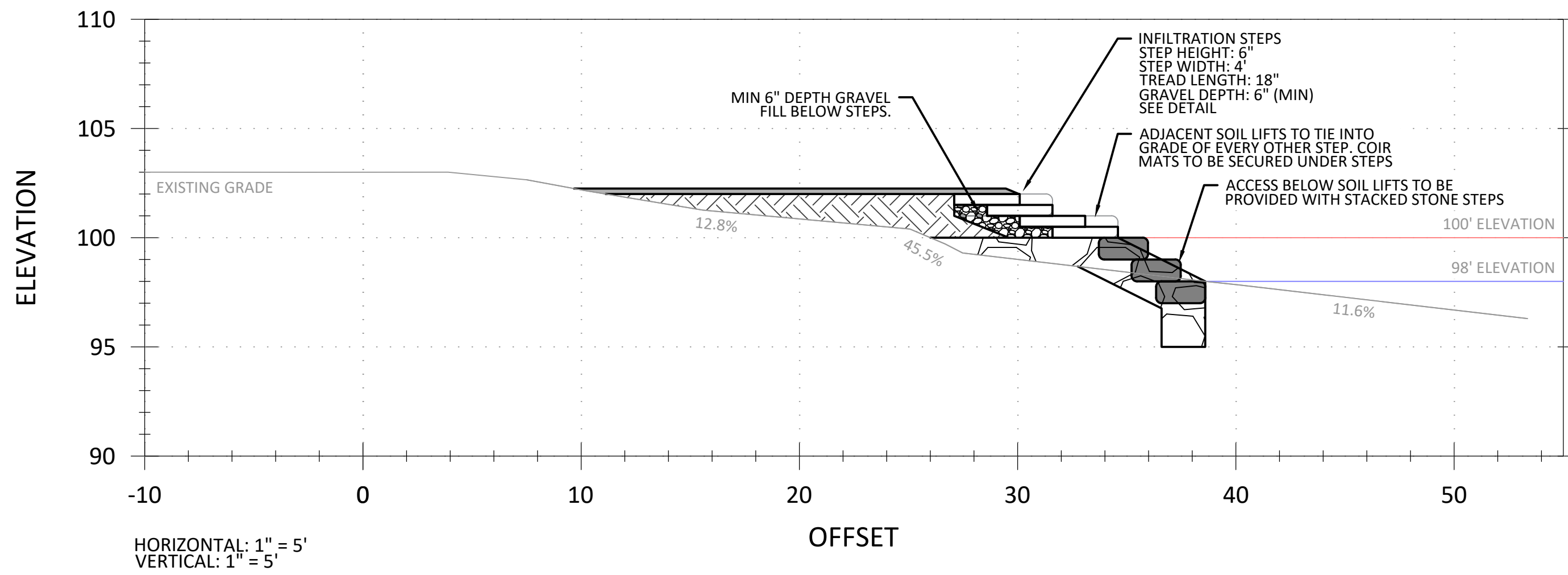
WEST SHORE ROAD
SOUTH HERO, VT
NOT FOR CONSTRUCTION

DRAFT FINAL PLANS

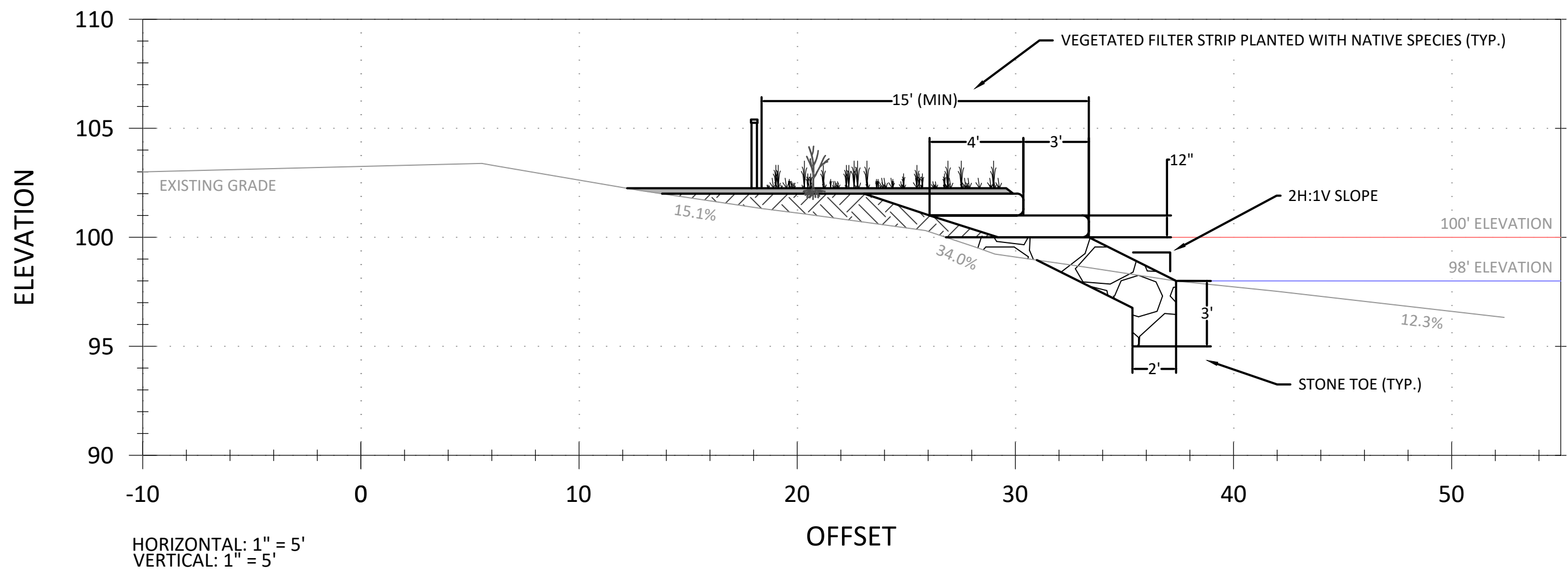
AEM	JHB
DRAWN	CHECKED
1" = 10'	
2026-06-12	
25083	
1 OF 4	
EX-1	
SHEET NAME	

S:\2025\25083_GIGNKCD_SOUTH_HERO_TOWN_BEACH\CAD\SHERTOWN\BEACH.DWG 6/12/2026 2:06:35 PM

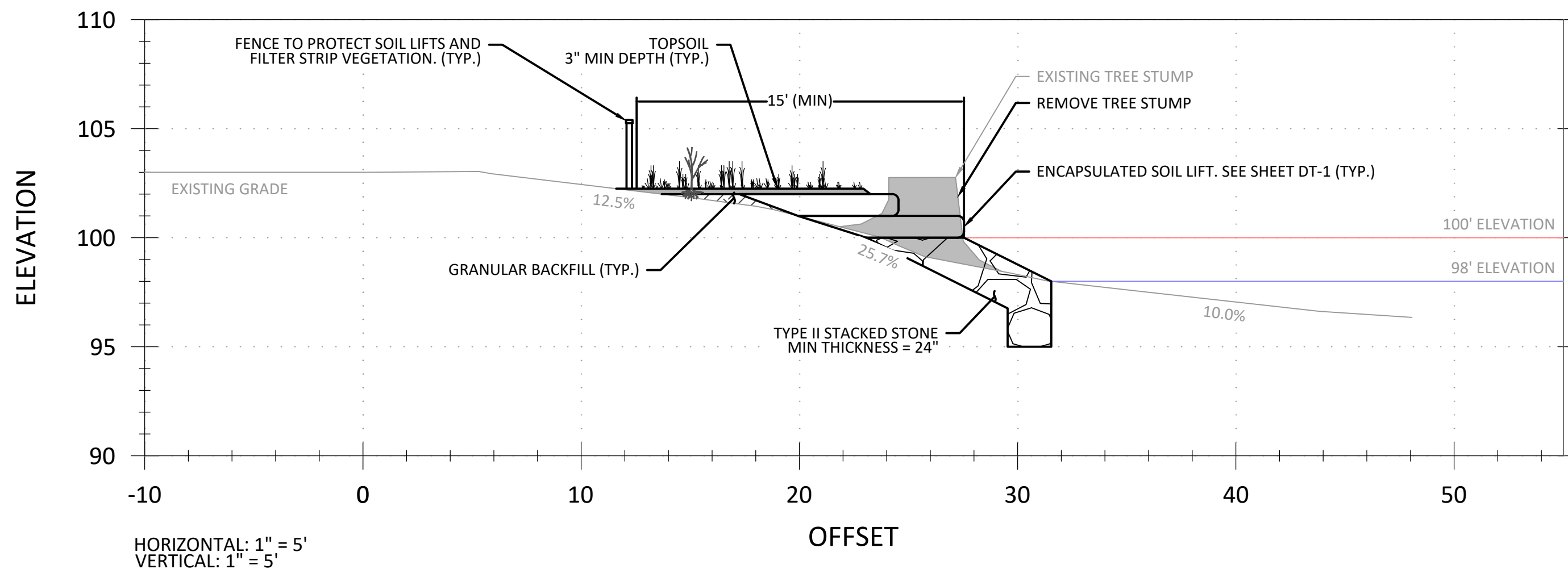
SHORELINE ALIGNMENT CROSS SECTION
STA 0+55



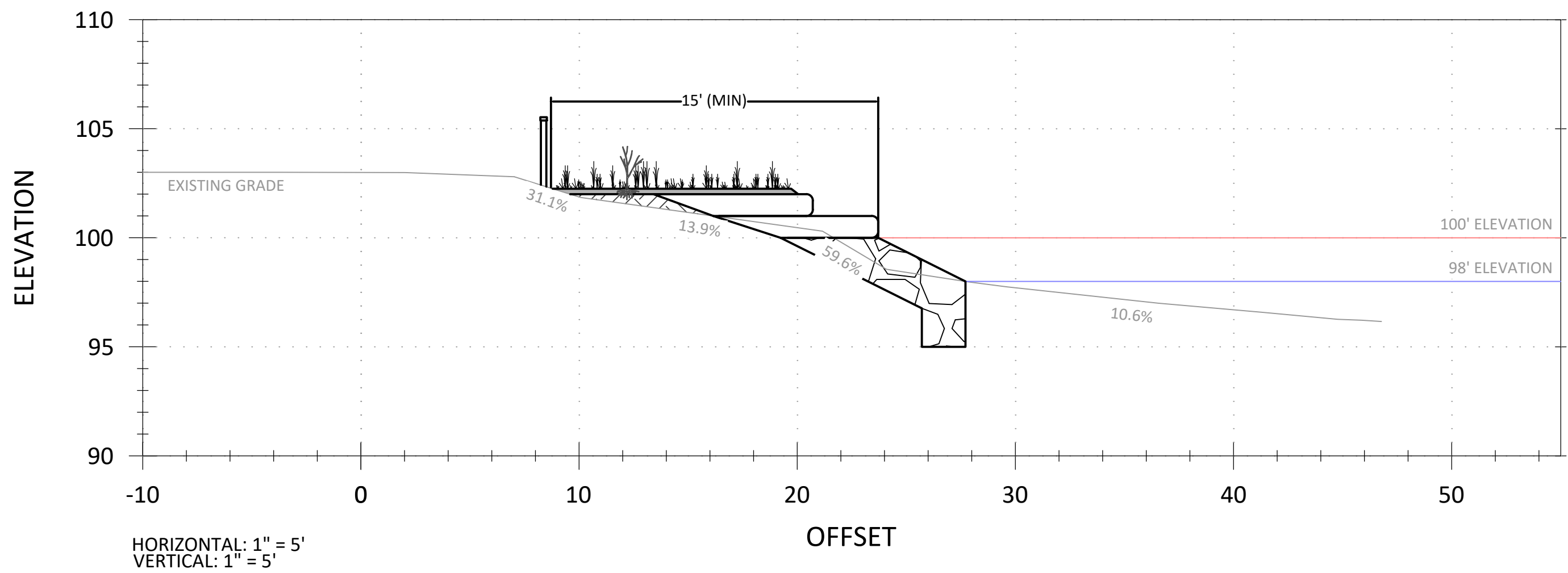
SHORELINE ALIGNMENT CROSS SECTION
STA 1+15



SHORELINE ALIGNMENT CROSS SECTION
STA 1+92



SHORELINE ALIGNMENT CROSS SECTION
STA 2+53

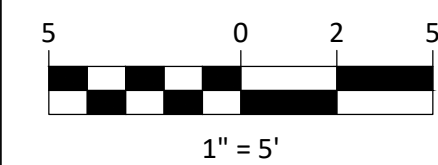


164 Main Street, Suite 2
Colchester, VT 05446
Telephone: 802.876.7778
www.fitzgeraldenvironmental.com

DRAFT

SIGNATURE

REVISIONS		
#	DESCRIPTION	DATE



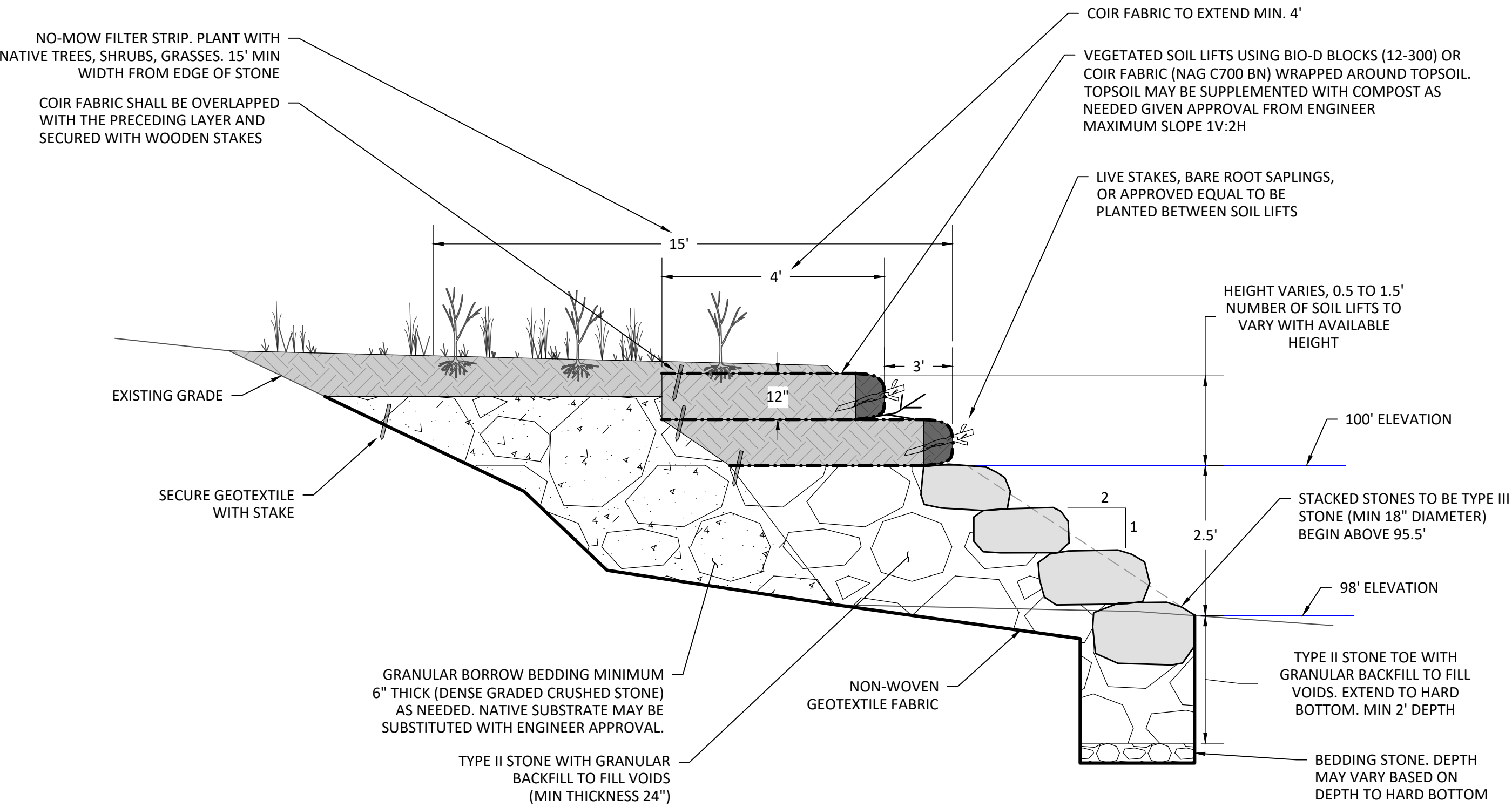
SHORELINE CROSS SECTIONS
SOUTH HERO TOWN BEACH SHORELINE STABILIZATION

WEST SHORE ROAD
SOUTH HERO, VT
NOT FOR CONSTRUCTION

DRAFT FINAL PLANS

AEM DRAWN	JHB CHECKED
SCALE 1" = 5'	
DATE 2026-06-12	
PROJECT NO. 25083	
SHEET NO. 3 OF 4	
XS-1 SHEET NAME	

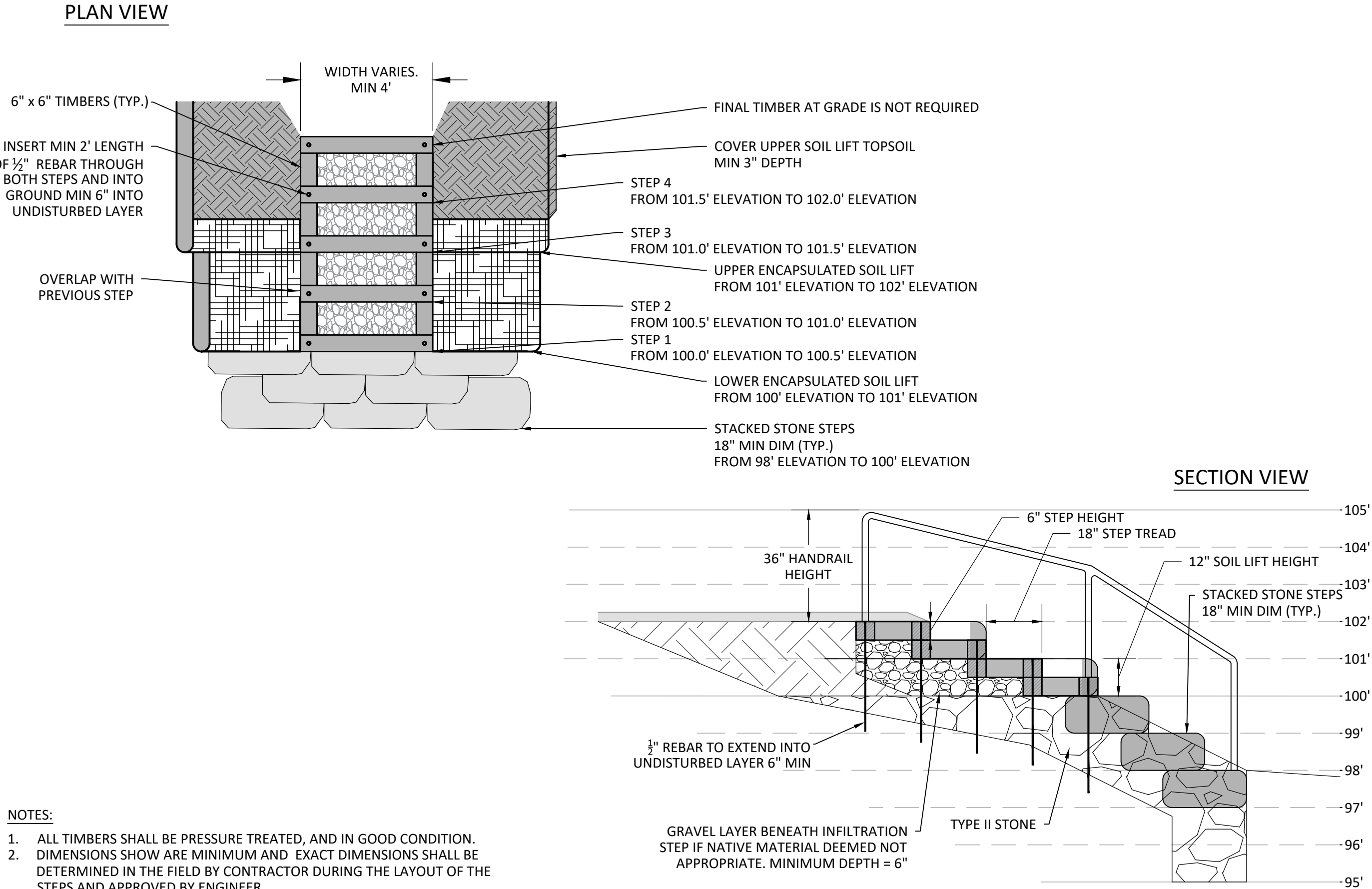
S:\2025\25083_GIGNKCD_SOUTH_HERO_TOWN_BEACH\CAD\SHERTOWNBEACH.DWG 6/12/2016 2:06:38 PM



- NOTES:
1. COIR MATTING SHALL BE BIODEGRADABLE AND MADE OF 100% WOVEN COIR FABRIC.
 2. MATTING FOR SOIL LIFTS SHALL BE SECURED WITH WOODEN STAKES ON LOWER AND UPPER LAYERS. STAKE SPACING SHALL NOT EXCEED 3 FEET IN THE WIDTH DIMENSION OR 8 FEET IN THE LENGTH DIMENSION.
 3. ACCEPTABLE COIR MATTING PRODUCTS SHALL BE APPROVED BY ENGINEER
 4. LIVE STAKES SHALL BE INSTALLED AT A MINIMUM DENSITY OF 3 STEMS PER LINEAR FOOT ALONG THE BANK.
 5. STONE TOE SHALL BE BUILT WITH STONE A MINIMUM OF 18" DIAMETER. STACKED STONE MAY BE USED WHERE APPLICABLE

ENCAPSULATED SOIL LIFT AND STONE TOE STABILIZATION

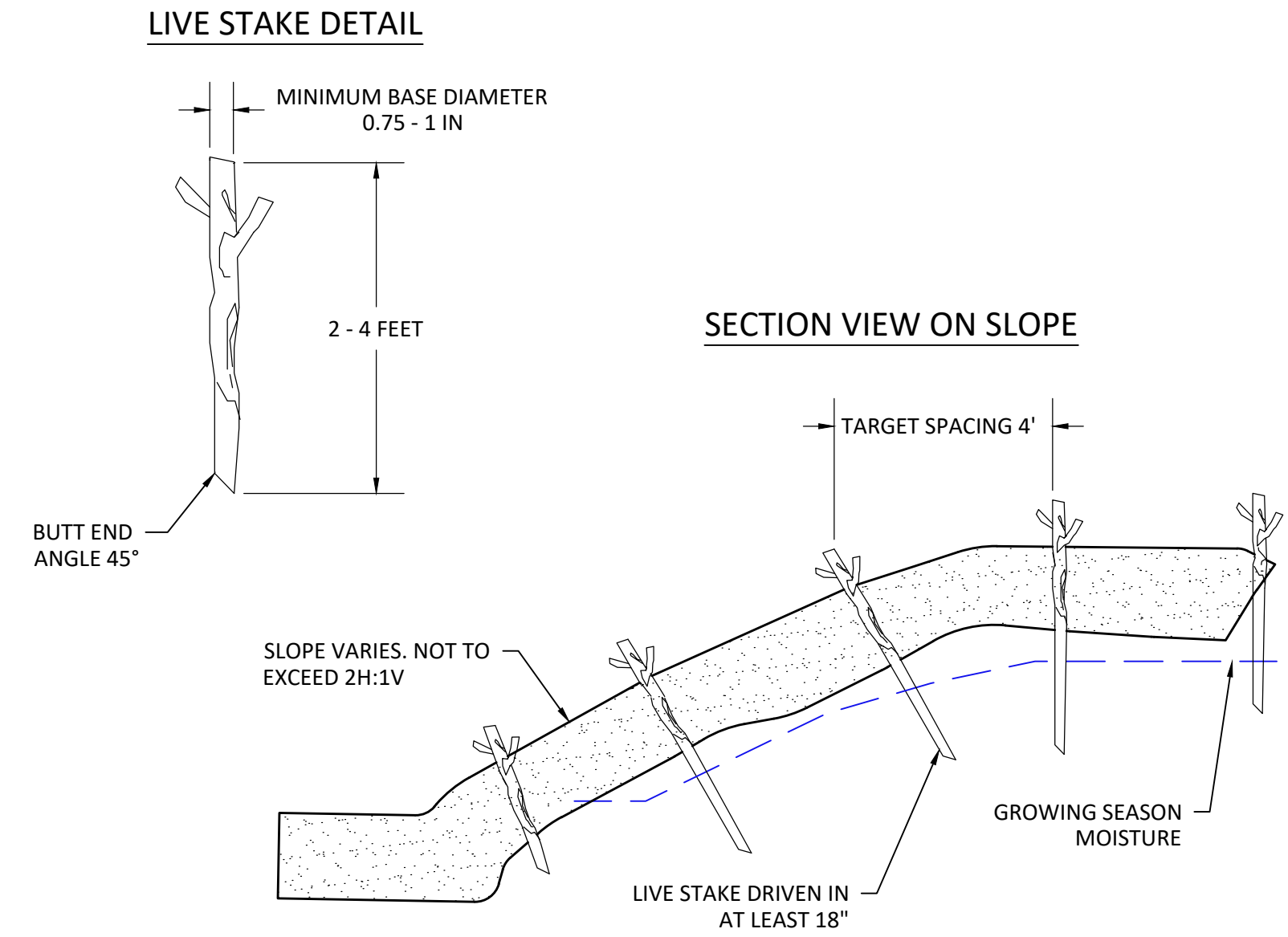
N.T.S



- NOTES:
1. ALL TIMBERS SHALL BE PRESSURE TREATED, AND IN GOOD CONDITION.
 2. DIMENSIONS SHOW ARE MINIMUM AND EXACT DIMENSIONS SHALL BE DETERMINED IN THE FIELD BY CONTRACTOR DURING THE LAYOUT OF THE STEPS AND APPROVED BY ENGINEER.

INFILTRATION STEPS

N.T.S



WILLOW SPECIFICATIONS:

RECOMMENDED NATIVE WILLOW SPECIES:
SALIX DISCOLOR - PUSSY WILLOW
SALIX ERIOCEPHALA - MISSOURI RIVER WILLOW
SALIX LUCIDA - SHINING WILLOW

WILLOW STAKES SHALL BE HARVESTED DURING THE DORMANT PERIOD FOLLOWING FALL LEAF DROP AND BEFORE PLANT LEAF BUDDING IN SPRING. ALTERNATIVELY, WILLOW TUBELINGS WITH WELL-ESTABLISHED ROOT SYSTEMS (MINIMUM 1-YEAR GROWTH IN TUBE) MAY BE SUBSTITUTED TO PROVIDE FLEXIBILITY IN THE PLANTING SCHEDULE.

SEQUENCE:

1. ACHIEVE FINAL GRADING. SEED WITH APPROPRIATE SEED MIX AND INSTALL ROLLED EROSION CONTROL PRODUCT.
2. INSTALL WILLOW STAKES THROUGH RECP. IF NECESSARY, USE METAL BAR TO CREATE "PILOT HOLE" FOR STAKE.
3. FILL REMAINING VOIDS AROUND STAKES ON FACE OF SLOPE WITH TOPSOIL AND LIGHTLY TAMP AROUND EACH STAKE.

LIVE STAKE PLANTING

N.T.S

REVISIONS		
#	DESCRIPTION	DATE

AEM DRAWN	JHB CHECKED
SCALE N.T.S	
DATE 2026-06-12	
PROJECT NO. 25083	
SHEET NO. 4 OF 4	
SHEET NAME DT-1	