

SHAMROCK ISLAND

RESTORATION PROJECT - PHASE III



DIRECTIONS:

THE PROJECT SITE CAN BE ACCESSED BY BOAT FROM WILSON'S CUT ON MUSTANG ISLAND.

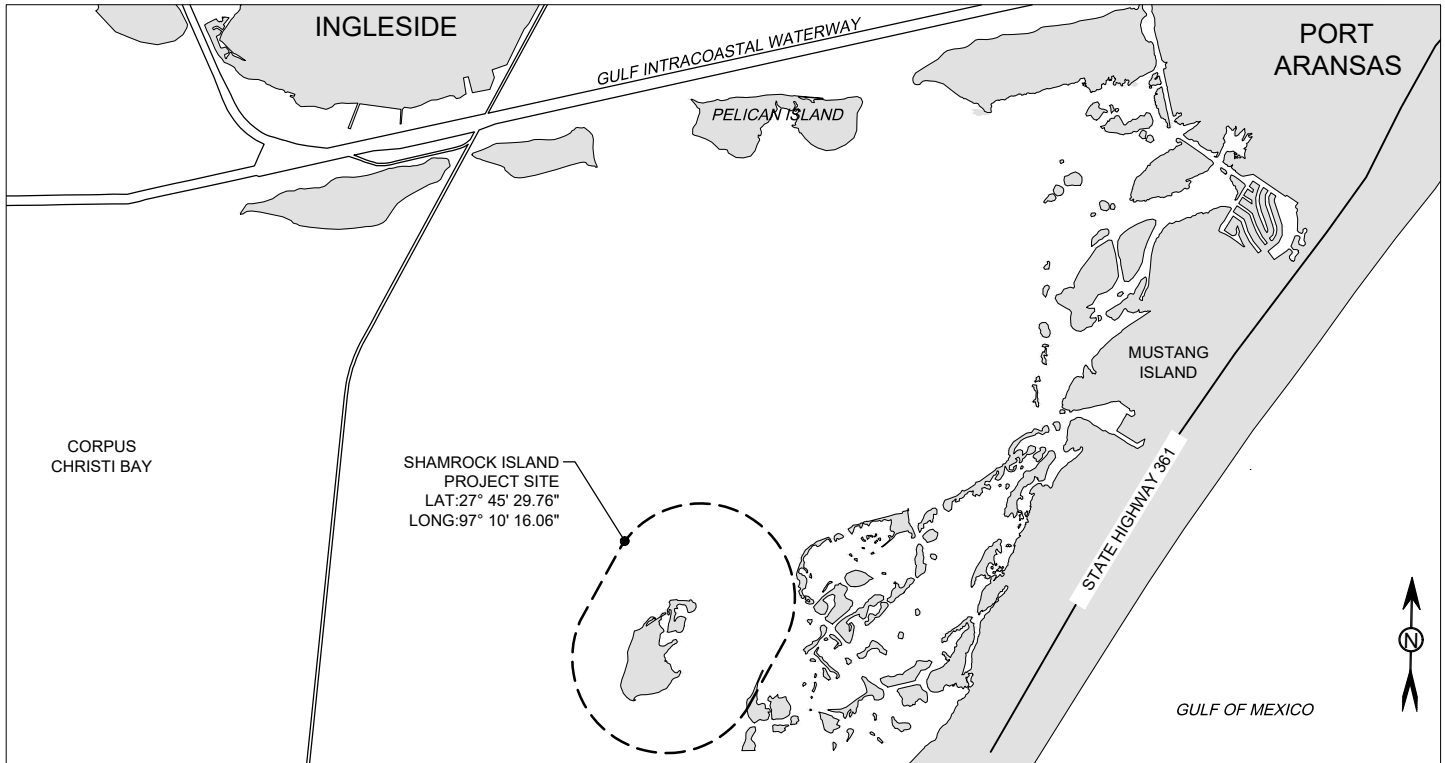
NATURE OF ACTIVITY:

THE PURPOSE OF THIS PROJECT IS TO RESTORE BREACHED AREAS OF SHAMROCK ISLAND AND REDUCE THE PROBABILITY OF FUTURE BREACHING ALONG THE SHORELINE

DRAWING INDEX

1. VICINITY & LOCATION MAP
2. OVERALL SITE PLAN
3. SENSITIVE HABITAT DELINEATION
4. SOUTH SITE PLAN
5. NORTH SITE PLAN
6. BORROW AREA SECTIONS
7. BREACH FILL AND FEEDER SECTIONS

VICINITY MAP
(NOT TO SCALE)



LOCATION MAP



PERMIT

APPLICANT: THE NATURE CONSERVANCY

JUNE 15, 2021 SHEET 1 OF 7



711 North Carancahua
Suite 1610
Corpus Christi, Texas 78401
Texas Registered Firm No. 12181
T +1 (361) 661-3061
www.mottmac.com

SITE ADDRESS:
LAT: 27°45'29.76"
LONG: 97°10'16.06"

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL
DRAWINGS IF NOT ONE INCH ON THIS
SHEET, ADJUST SCALES ACCORDINGLY



CLIENT: The Nature Conservancy

IN: Corpus Christi Bay

ADJACENT: Mustang Island

COUNTY: Nueces County

STATE: Texas

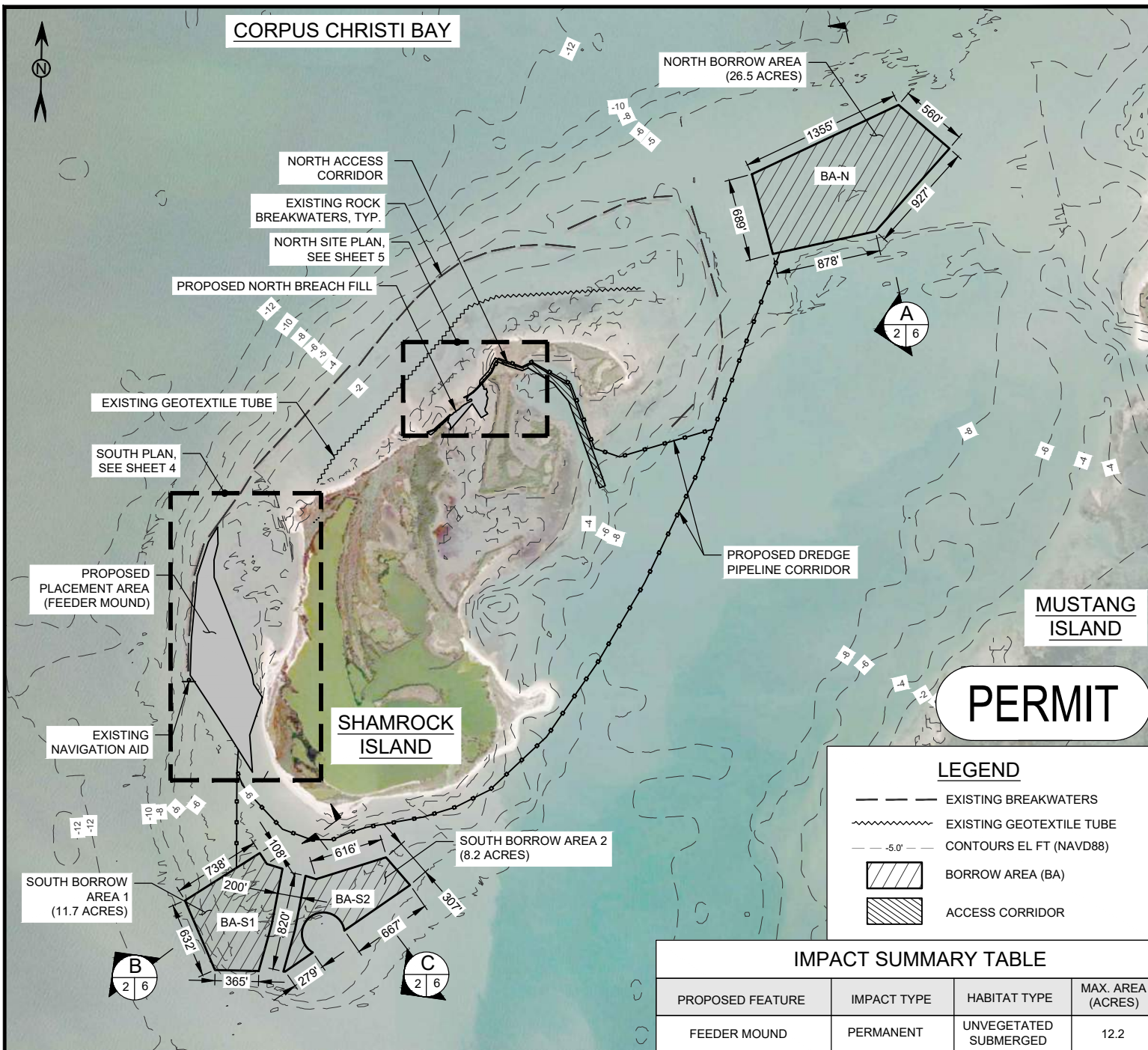
VERTICAL DATUM: NAVD88, FEET

HORIZ DATUM: TX ST PLANE SOUTH

**SHAMROCK ISLAND
RESTORATION PROJECT
PHASE III**

VICINITY & LOCATION MAP

THESE PLANS ARE INTENDED FOR PERMITTING AND ARE NOT TO
BE USED FOR BIDDING OR CONSTRUCTION.



LEGEND

- EXISTING BREAKWATERS
- EXISTING GEOTEXTILE TUBE
- 5.0'--- CONTOURS EL FT (NAVD88)
- BA BORROW AREA (BA)
- AC ACCESS CORRIDOR

IMPACT SUMMARY TABLE

PROPOSED FEATURE	IMPACT TYPE	HABITAT TYPE	MAX. AREA (ACRES)
FEEDER MOUND	PERMANENT	UNVEGETATED SUBMERGED	12.2
NORTH BREACH FILL	PERMANENT	UNVEGETATED TIDAL ZONE	1.0
BORROW AREA NORTH	PERMANENT	UNVEGETATED SUBMERGED	26.5
BORROW AREA SOUTH 1	PERMANENT	UNVEGETATED SUBMERGED	11.7
BORROW AREA SOUTH 2	TEMPORARY	UNVEGETATED SUBMERGED	8.2
NORTH ACCESS CORRIDOR	TEMPORARY	UNVEGETATED SUBMERGED	0.30
NORTH ACCESS CORRIDOR	TEMPORARY	UNVEGETATED TIDAL ZONE	0.19
NORTH ACCESS CORRIDOR	TEMPORARY	UPLAND COASTAL PRAIRIE	0.05
NORTH ACCESS CORRIDOR	TEMPORARY	ESTUARINE WETLANDS	0.06

TIDAL WATER LEVELS (NAVD88)

HIGHT TIDE LINE (HTL)	+2.76'
MEAN HIGH WATER (MHW)	+1.01'
MEAN SEA LEVEL (MSL)	+0.76'
MEAN LOW WATER (MLW)	+0.43'

LOCATION MAP



NOTES:

- GOOGLE EARTH AERIAL PHOTOGRAPH IS DATED JANUARY 31, 2020 AND SHOWN ON SHEETS 2 & 3. HIGH RESOLUTION AERIAL PHOTOGRAPHY SOURCED FROM CONNECTEXPLORER PICTOMETRY IS DATED OCTOBER 7, 2020 AND IS SHOWN ON SHEETS 4 & 5.
- CONTOURS SHOWN REPRESENT BATHYMETRY DATA SET COMPOSED OF THE CORPUS CHRISTI DEM AND SURVEYS CONDUCTED BY TRITON ENVIRONMENTAL SOLUTIONS, LLC ON MARCH 2, 2021.
- HORIZONTAL DATUM: TEXAS STATE PLANE SOUTH, NAD83 FT. VERTICAL DATUM: NAVD88, FT.

APPLICANT: THE NATURE CONSERVANCY

JUNE 15, 2021 SHEET 2 OF 7

M
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IN: Corpus Christi Bay

ADJACENT: Mustang Island

COUNTY: Nueces County

STATE: Texas

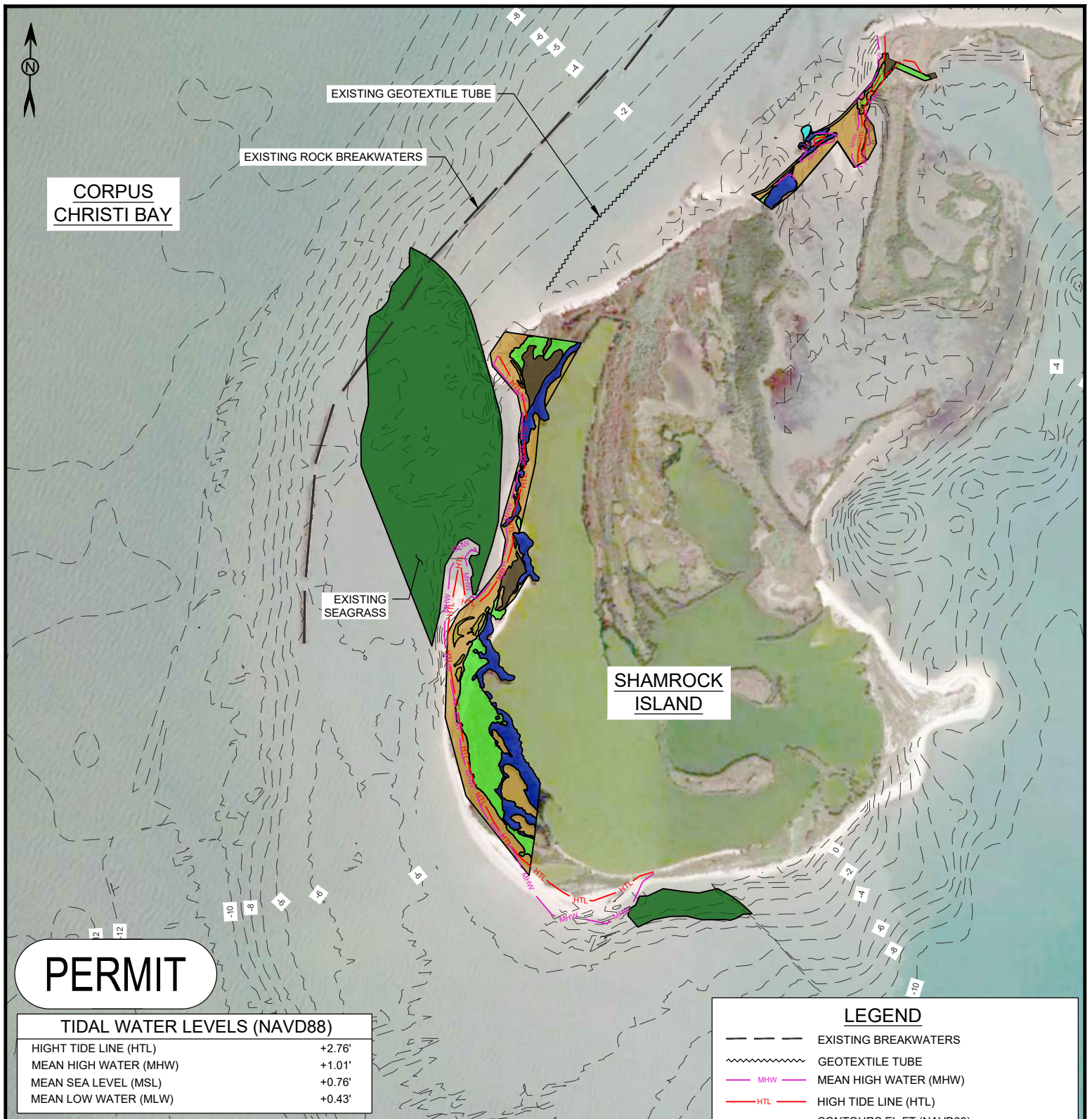
VERTICAL DATUM: NAVD88, FEET

HORIZ DATUM: TX ST PLANE SOUTH

**SHAMROCK ISLAND
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OVERALL SITE PLAN

THESE PLANS ARE INTENDED FOR PERMITTING AND ARE NOT TO
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PERMIT

TIDAL WATER LEVELS (NAVD88)

HIGHT TIDE LINE (HTL)	+2.76'
MEAN HIGH WATER (MHW)	+1.01'
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MEAN LOW WATER (MLW)	+0.43'

NOTES:

- HABITAT AREAS ARE BASED ON SURVEY CONDUCTED BY TRITON ENVIRONMENTAL SOLUTIONS, LLC. SERVICES ON MARCH 2, 2021

LOCATION MAP



LEGEND

---	EXISTING BREAKWATERS	SEA GRASS AREA
~~~~~	GEOTEXTILE TUBE	BLACK MANGROVE
---	MEAN HIGH WATER (MHW)	SMOOTH CORD GRASS
---	HIGHT TIDE LINE (HTL)	
---	CONTOURS EL FT (NAVD88)	
---	UNVEGETATED TIDAL ZONE	
---	ESTUARINE WETLAND AREA	
---	UPLAND COASTAL PRAIRIE	

APPLICANT: THE NATURE CONSERVANCY

JUNE 15, 2021 SHEET 3 OF 7



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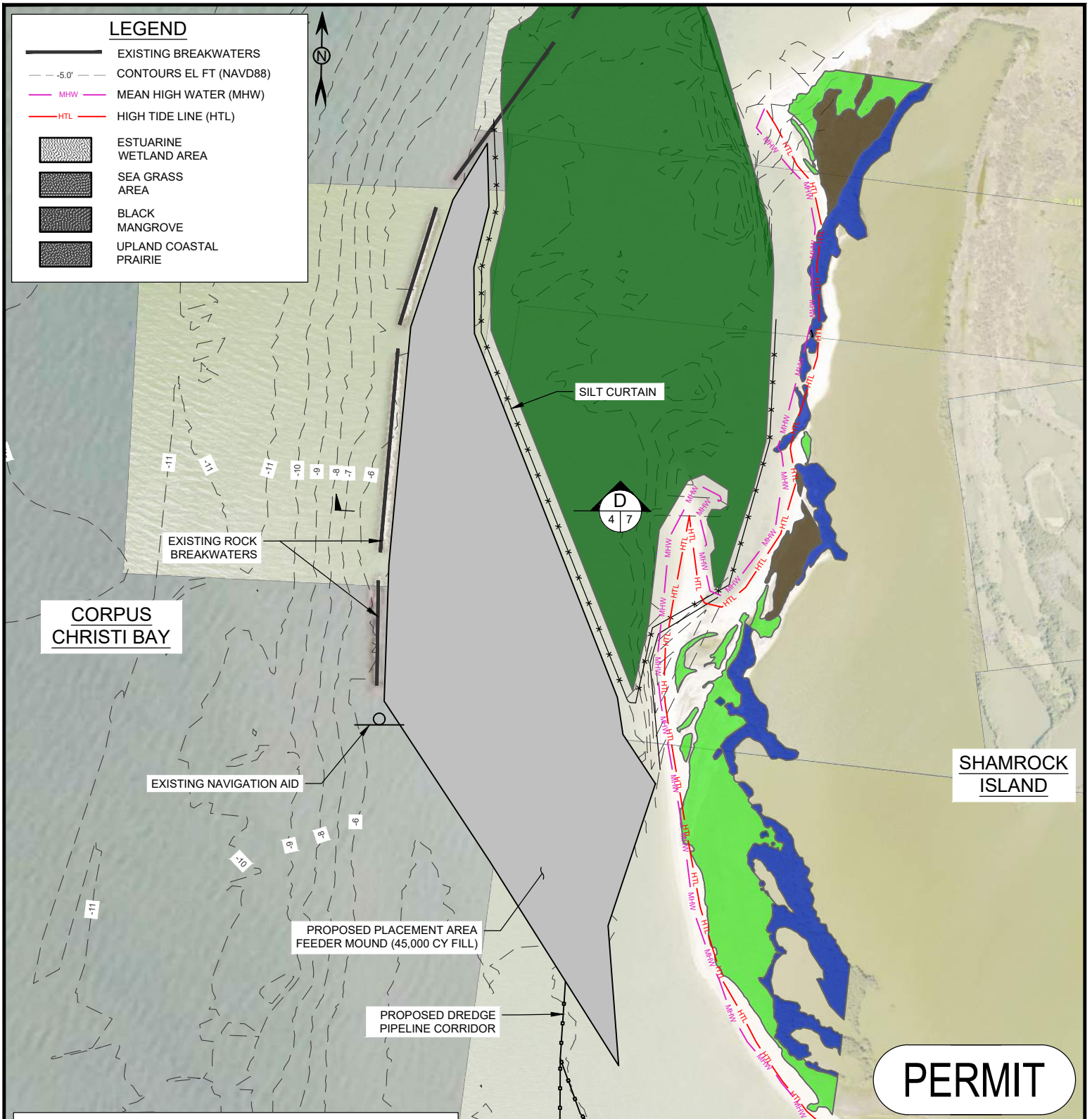


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SHAMROCK ISLAND  
RESTORATION PROJECT  
PHASE III

SENSITIVE HABITAT DELINEATION

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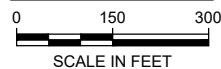


PERMIT

NOTES:

1. CONTRACTOR SHALL INSTALL TURBIDITY CURTAINS AND/OR APPROVED EQUAL BMPS TO MINIMIZE TURBIDITY DUE TO CONSTRUCTION IN THE VICINITY OF SEA GRASSES.
2. CONTRACTOR SHALL USE CONSTRUCTION MATS OR SIMILAR WITHIN VEGETATED LAND ACCESS AREAS TO MINIMIZE DISTURBANCE.
3. HABITAT AREAS ARE BASED ON SURVEY CONDUCTED BY TRITON ENVIRONMENTAL SOLUTIONS, LLC. SERVICES ON MARCH 2, 2021

LOCATION MAP



TIDAL WATER LEVELS (NAVD88)

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SOUTH PLAN

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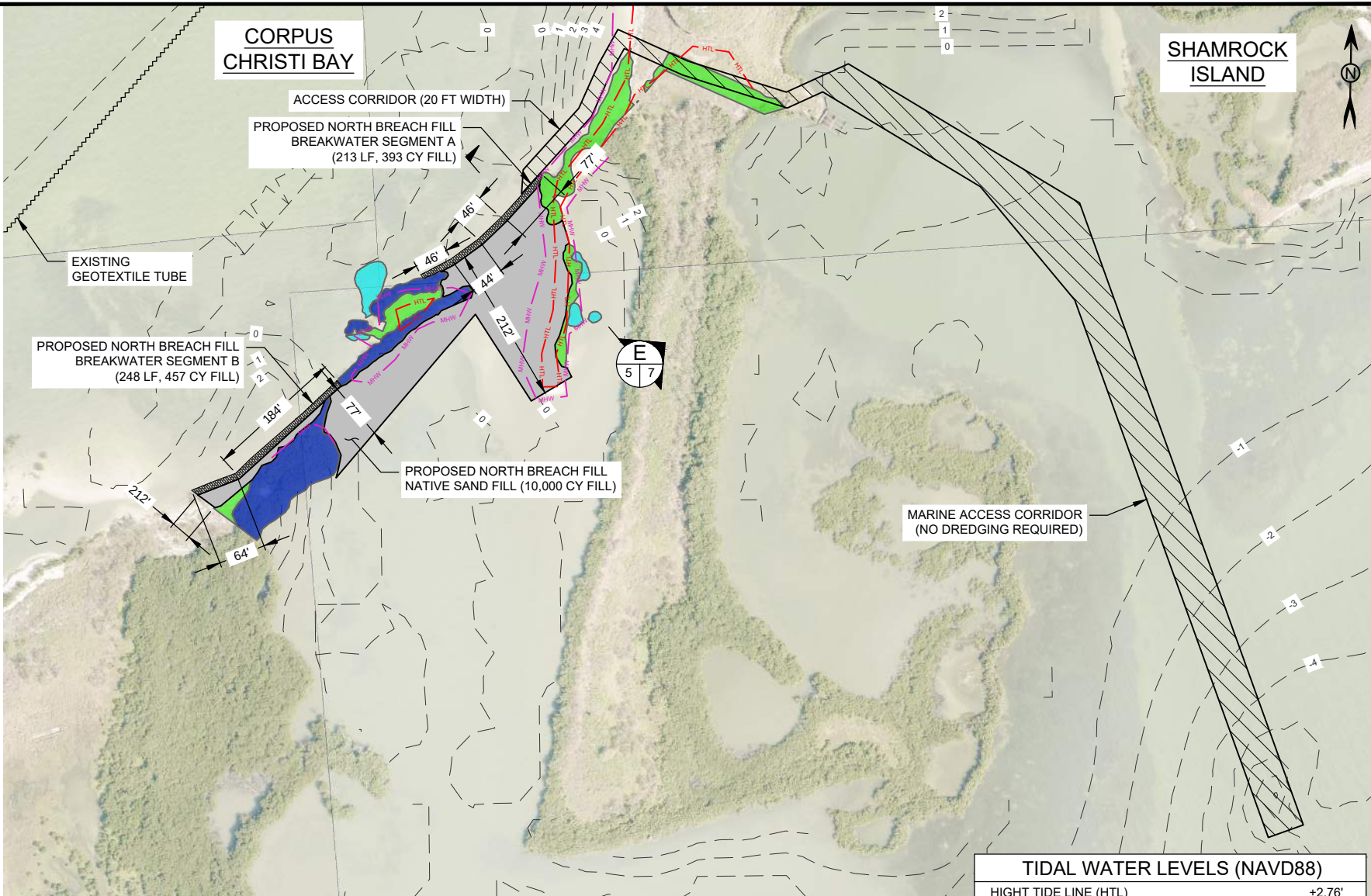
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JUNE 15, 2021

SHEET 5 OF 7

SHAMROCK ISLAND  
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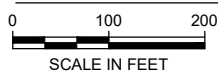
NORTH SITE PLAN



**NOTES:**

1. PROPOSED BREACH FILL WILL CONSIST OF A LOW CRESTED BREAKWATER AND NATIVE SAND FILL.
2. CONTRACTOR SHALL INSTALL TURBIDITY CURTAINS AND/OR APPROVED EQUAL BMPs TO MINIMIZE TURBIDITY DUE TO CONSTRUCTION IN THE VICINITY OF SEA GRASSES.
3. CONTRACTOR SHALL USE CONSTRUCTION MATS OR SIMILAR WITHIN VEGETATED LAND ACCESS AREAS TO MINIMIZE DISTURBANCE.

**LOCATION MAP**



**TIDAL WATER LEVELS (NAVD88)**

HIGHT TIDE LINE (HTL)	+2.76'
MEAN HIGH WATER (MHW)	+1.01'
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**LEGEND**

— — —	EXISTING BREAKWATERS	▨	PROPOSED BREAKWATER
-5.0'	CONTOURS EL. FT. (NAVD88)	▨	BLACK MANGROVE
— HTL	HIGH TIDE LINE (HTL)		
— MHW	MEAN HIGH WATER (MHW)		
▨	ESTUARINE WETLAND AREA		
▨	SMOOTH CORD GRASS		

APPLICANT: THE NATURE CONSERVANCY

JUNE 15, 2021

SHEET 6 OF 7

PERMIT

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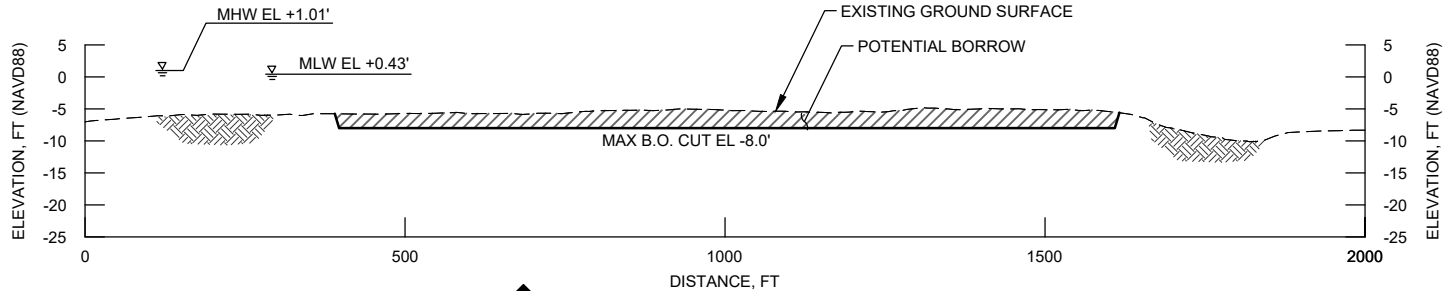
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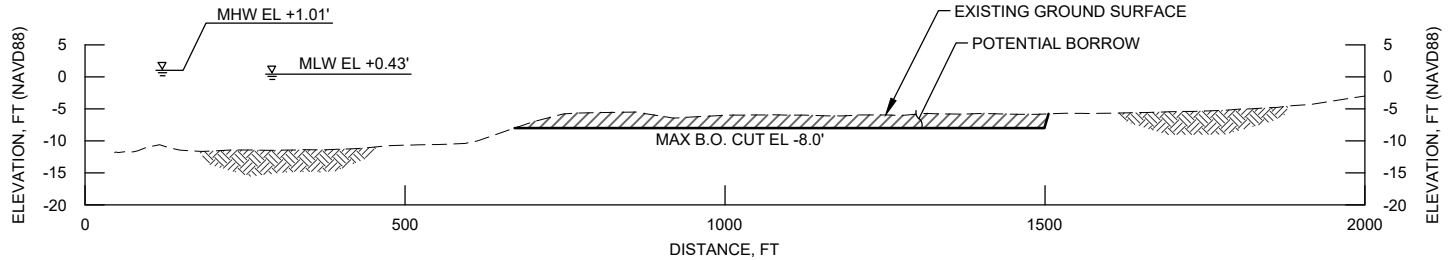
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SHAMROCK ISLAND  
RESTORATION PROJECT  
PHASE III  
BORROW AREA SECTIONS



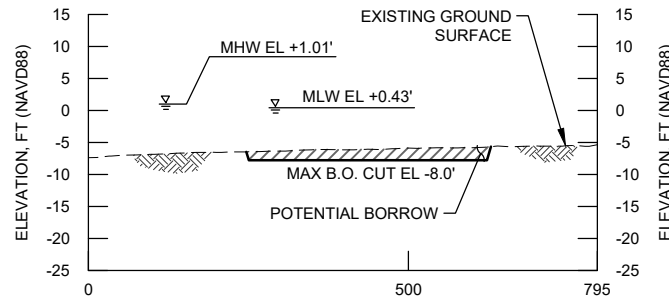
SECTION  
PROPOSED NORTH  
BORROW AREA  
(BA-N)

HORIZ. 0 150 300  
VERT. 0 15 30  
SCALE IN FEET



SECTION  
PROPOSED SOUTH  
BORROW AREA  
(BA-S1)

HORIZ. 0 150 300  
VERT. 0 15 30  
SCALE IN FEET



SECTION  
PROPOSED SOUTH  
BORROW AREA  
(BA-S2)

HORIZ. 0 150 300  
VERT. 0 15 30  
SCALE IN FEET

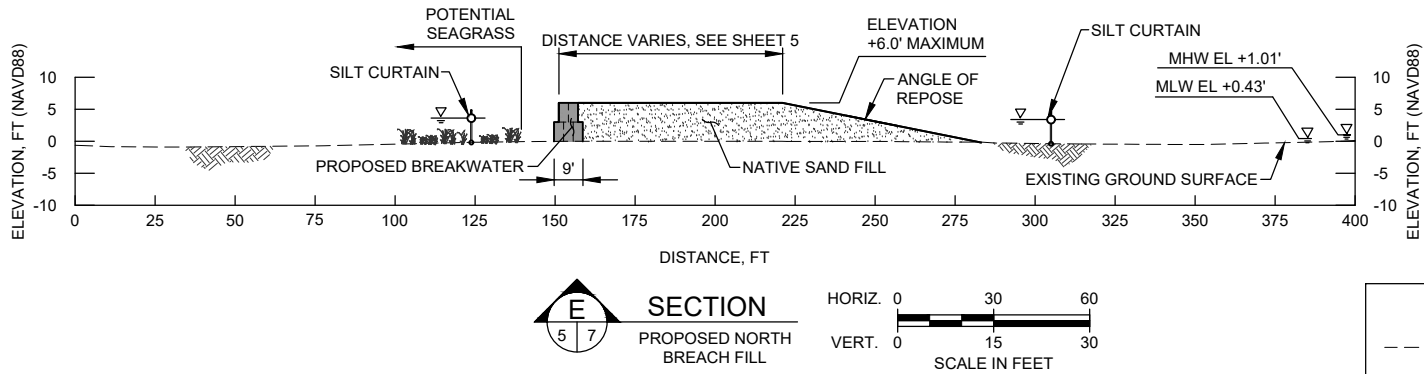
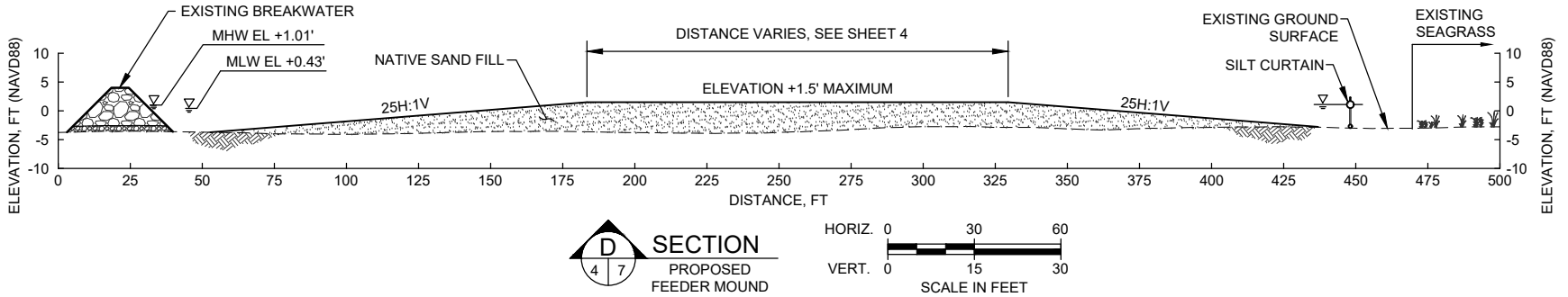
**LEGEND**

- EXISTING GROUND SURFACE
- /// BORROW AREA DREDGING

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NOTES:

- SECTION E DEMONSTRATES THE MAXIMUM BREAKWATER PARAMETERS, INCLUDING A MAXIMUM BOTTOM WIDTH OF 9 FT AND CREST HEIGHT OF 6 FT. ACTUAL SIDE SLOPE AND CREST WIDTH MAY VARY BASED ON AVAILABLE CONSTRUCTION MATERIALS AT THE TIME OF FINAL DESIGN.
- BREAKWATERS MAY BE CONSTRUCTED OF MATERIAL OR UNITS COMPOSED OF CONCRETE, STEEL, STEEL MESH, GEOGRID, GEOTEXTILE, BEDDING STONE, GABION STONE, OR SIMILAR.

PERMIT

JUNE 15, 2021 SHEET 7 OF 7

SHAMROCK ISLAND  
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PHASE III

BREACH FILL AND FEEDER SECTIONS

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DRAWINGS NOT TO BE USED FOR CONSTRUCTION  
SHEET 7 OF 7 SCALES APPROXIMATELY

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