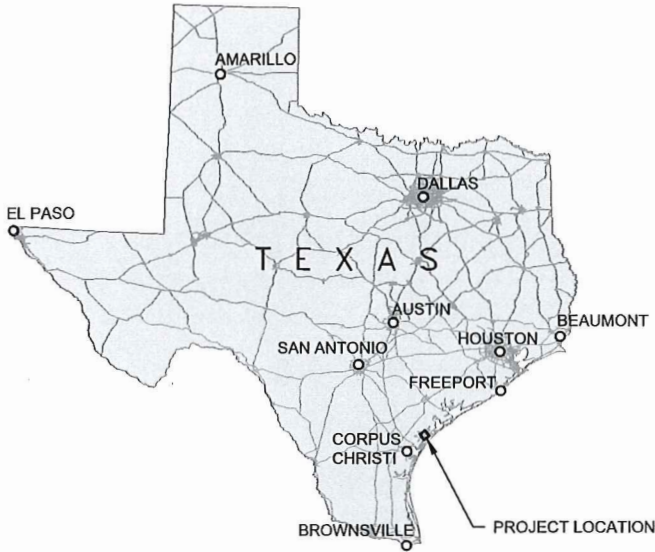


# ARANSAS COUNTY

## SHELL RIDGE ROAD FLOOD HAZARD MITIGATION

OCT 28 2019



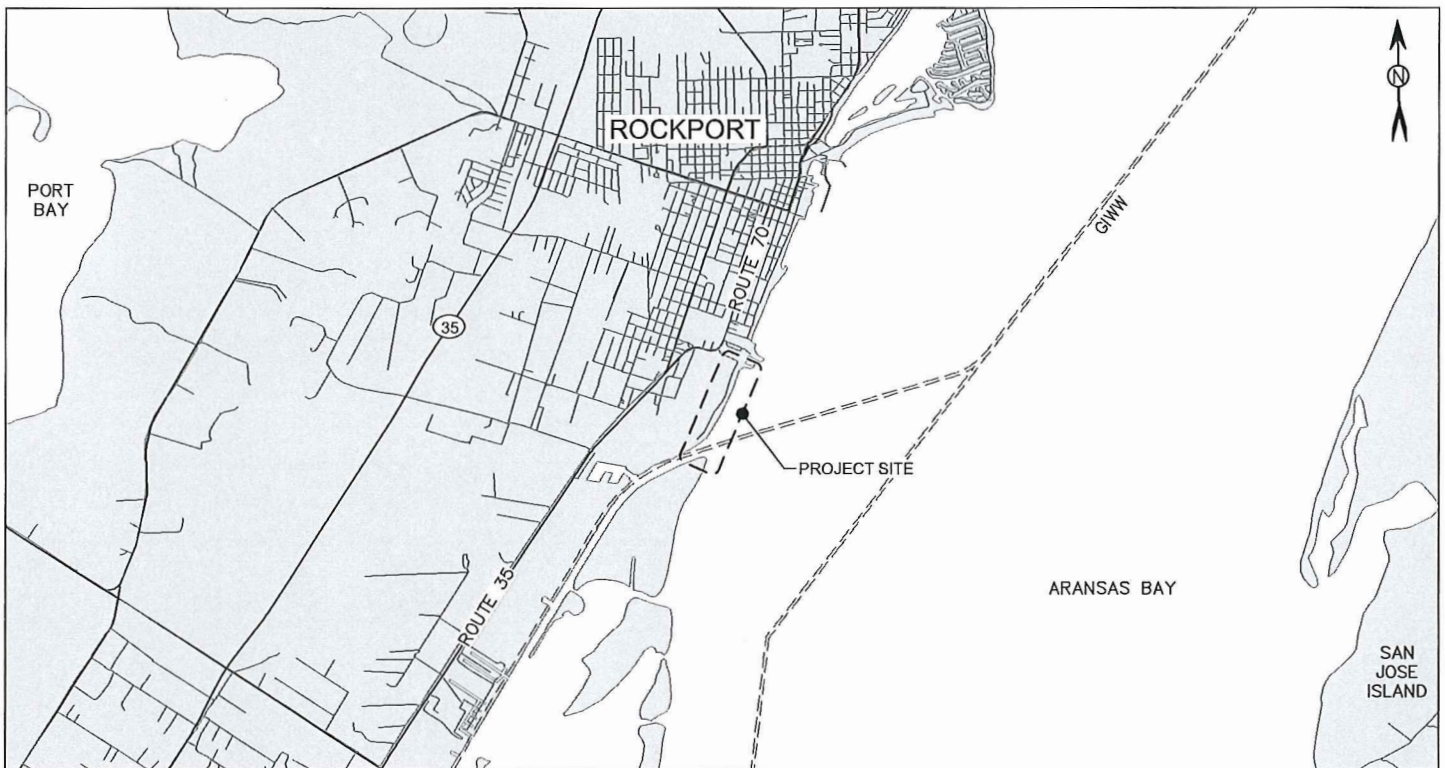
**DIRECTIONS:**

THE PROJECT SITE CAN BE ACCESSED ALONG THE SHELL RIDGE ROAD WATERFRONT. SHELL RIDGE ROAD IS LOCATED OFF OF THE SOUTH END OF SOUTH CHURCH ST/ROUTE 70, IN ROCKPORT, TX

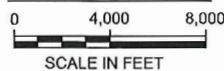
**NATURE OF ACTIVITY:**

THE PURPOSE OF THIS PROJECT IS TO PROVIDE SHORELINE STABILIZATION AND PROTECTION FROM WAVE IMPACT ALONG SHELL RIDGE ROAD. A LIVING SHORELINE WILL BE CONSTRUCTED, COMPOSED OF SEGMENTED RIPRAP BREAKWATERS AND SHORELINE PLANTING OF COASTAL MARSH GRASSES.

SHEET INDEX	
SHEET NO.	TITLE
1	VICINITY - LOCATION MAP
2	OVERALL SITE PLAN
3	SITE PLAN 1
4	SITE PLAN 2
5	CROSS SECTION
6	BREAKWATER AND PLANTING DETAILS



**LOCATION MAP**











**PERMIT**

**APPLICANT: ARANSAS COUNTY**

OCTOBER 25, 2019    SHEET 1 OF 6

<p><b>M M</b> <b>MOTT MACDONALD</b></p> <p>711 North Carancahua Suite 1610 Corpus Christi, Texas 78401 Texas Registered Firm No. 12181 T +1 (361) 661-3061 www.mottmac.com</p>	<p><b>SITE ADDRESS:</b> 27° 59' 53.37" N 97° 3' 38.26" W</p> <p><b>VERIFY SCALE</b> BAR IS ONE INCH ON ORIGINAL DRAWINGS IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY</p>	<p><b>CLIENT:</b> ARANSAS COUNTY <b>IN:</b> ARANSAS COUNTY <b>ADJACENT:</b> ARANSAS BAY <b>COUNTY:</b> ARANSAS <b>STATE:</b> TEXAS <b>VERTICAL DATUM:</b> NAVD88 <b>HORIZ. DATUM:</b> TSPSC NAD83-FT</p>	<p><b>SHELL RIDGE ROAD FLOOD HAZARD MITIGATION</b></p> <hr/> <p><b>VICINITY - LOCATION MAP</b></p>
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**LEGEND**

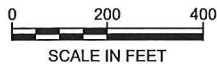
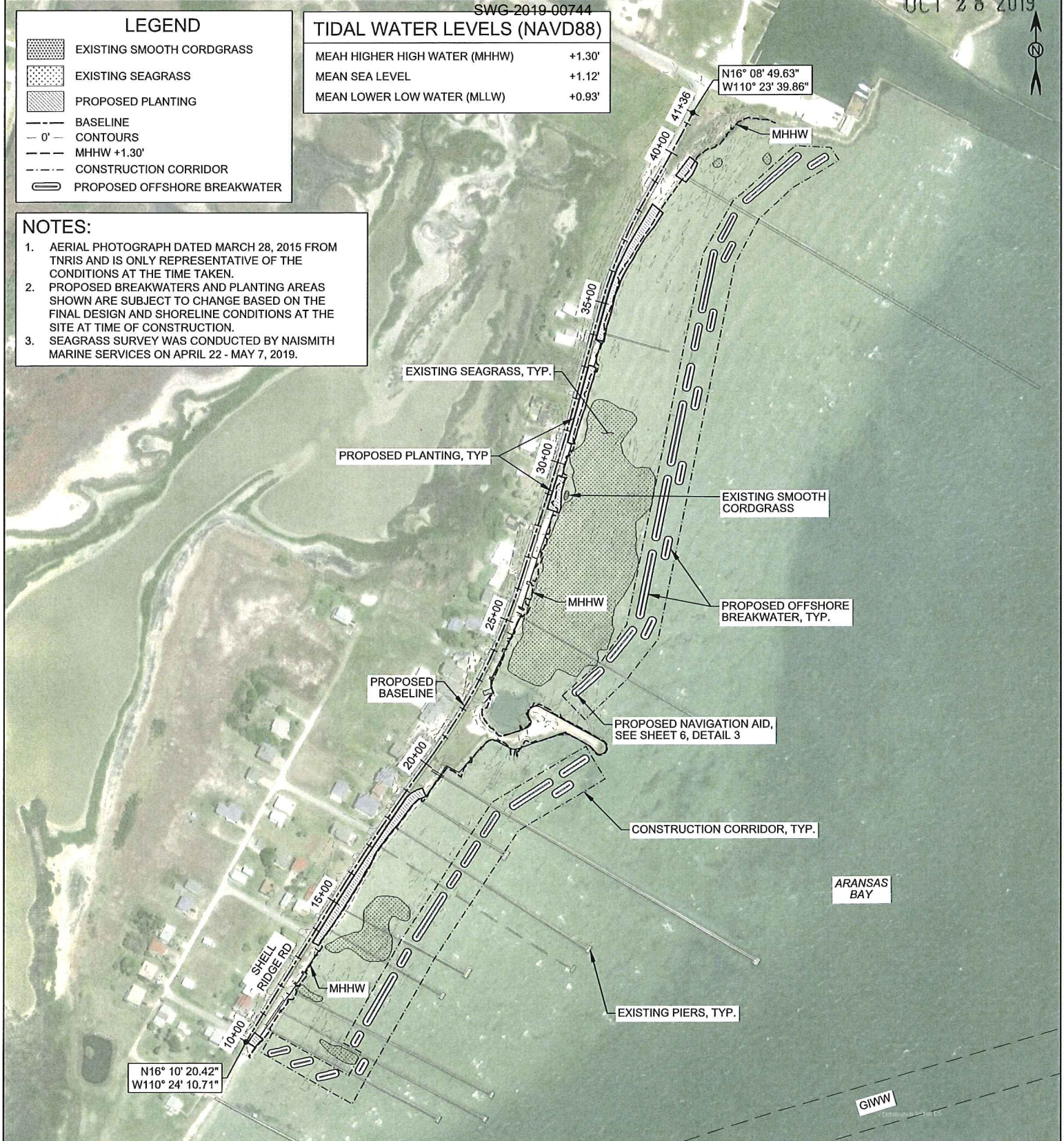
-  EXISTING SMOOTH CORDGRASS
-  EXISTING SEAGRASS
-  PROPOSED PLANTING
-  BASELINE
-  0' CONTOURS
-  MHHW +1.30'
-  CONSTRUCTION CORRIDOR
-  PROPOSED OFFSHORE BREAKWATER

**TIDAL WATER LEVELS (NAVD88)**

MEAH HIGHER HIGH WATER (MHHW)	+1.30'
MEAN SEA LEVEL	+1.12'
MEAN LOWER LOW WATER (MLLW)	+0.93'

**NOTES:**

1. AERIAL PHOTOGRAPH DATED MARCH 28, 2015 FROM TNRS AND IS ONLY REPRESENTATIVE OF THE CONDITIONS AT THE TIME TAKEN.
2. PROPOSED BREAKWATERS AND PLANTING AREAS SHOWN ARE SUBJECT TO CHANGE BASED ON THE FINAL DESIGN AND SHORELINE CONDITIONS AT THE SITE AT TIME OF CONSTRUCTION.
3. SEAGRASS SURVEY WAS CONDUCTED BY NAISMITH MARINE SERVICES ON APRIL 22 - MAY 7, 2019.



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APPLICANT: ARANSAS COUNTY

OCTOBER 25, 2019 SHEET 2 OF 6



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





CLIENT: ARANSAS COUNTY  
IN: ARANSAS COUNTY  
ADJACENT: ARANSAS BAY  
COUNTY: ARANSAS  
STATE: TEXAS  
VERTICAL DATUM: NAVD88  
HORIZ. DATUM: TSPSC NAD83-F T

**SHELL RIDGE ROAD  
FLOOD HAZARD MITIGATION**

**OVERALL SITE PLAN**

**LEGEND**

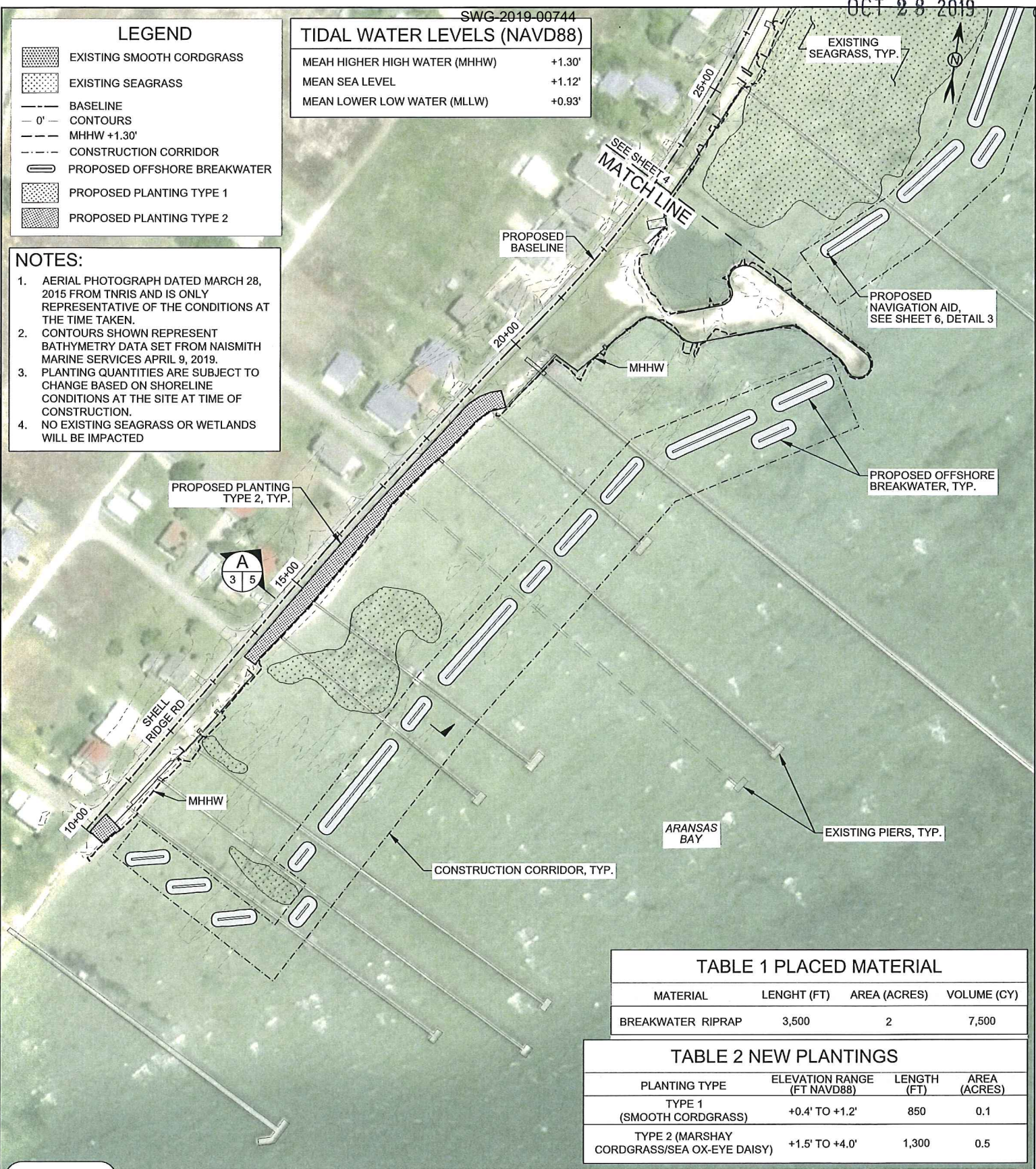
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-  BASELINE
-  0' CONTOURS
-  MHHW +1.30'
-  CONSTRUCTION CORRIDOR
-  PROPOSED OFFSHORE BREAKWATER
-  PROPOSED PLANTING TYPE 1
-  PROPOSED PLANTING TYPE 2

**TIDAL WATER LEVELS (NAVD88)**

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**NOTES:**

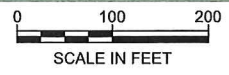
1. AERIAL PHOTOGRAPH DATED MARCH 28, 2015 FROM TNRIIS AND IS ONLY REPRESENTATIVE OF THE CONDITIONS AT THE TIME TAKEN.
2. CONTOURS SHOWN REPRESENT BATHYMETRY DATA SET FROM NAISMITH MARINE SERVICES APRIL 9, 2019.
3. PLANTING QUANTITIES ARE SUBJECT TO CHANGE BASED ON SHORELINE CONDITIONS AT THE SITE AT TIME OF CONSTRUCTION.
4. NO EXISTING SEAGRASS OR WETLANDS WILL BE IMPACTED



MATERIAL	LENGTH (FT)	AREA (ACRES)	VOLUME (CY)
BREAKWATER RIPRAP	3,500	2	7,500

PLANTING TYPE	ELEVATION RANGE (FT NAVD88)	LENGTH (FT)	AREA (ACRES)
TYPE 1 (SMOOTH CORDGRASS)	+0.4' TO +1.2'	850	0.1
TYPE 2 (MARSHAY CORDGRASS/SEA OX-EYE DAISY)	+1.5' TO +4.0'	1,300	0.5

**PERMIT**



APPLICANT: ARANSAS COUNTY

OCTOBER 25, 2019 SHEET 3 OF 6

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VERIFY SCALE










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STATE: TEXAS  
VERTICAL DATUM: NAVD88  
HORIZ. DATUM: TSPSC NAD83-FT

**SHELL RIDGE ROAD  
FLOOD HAZARD MITIGATION**

**SITE PLAN 1**

**LEGEND**

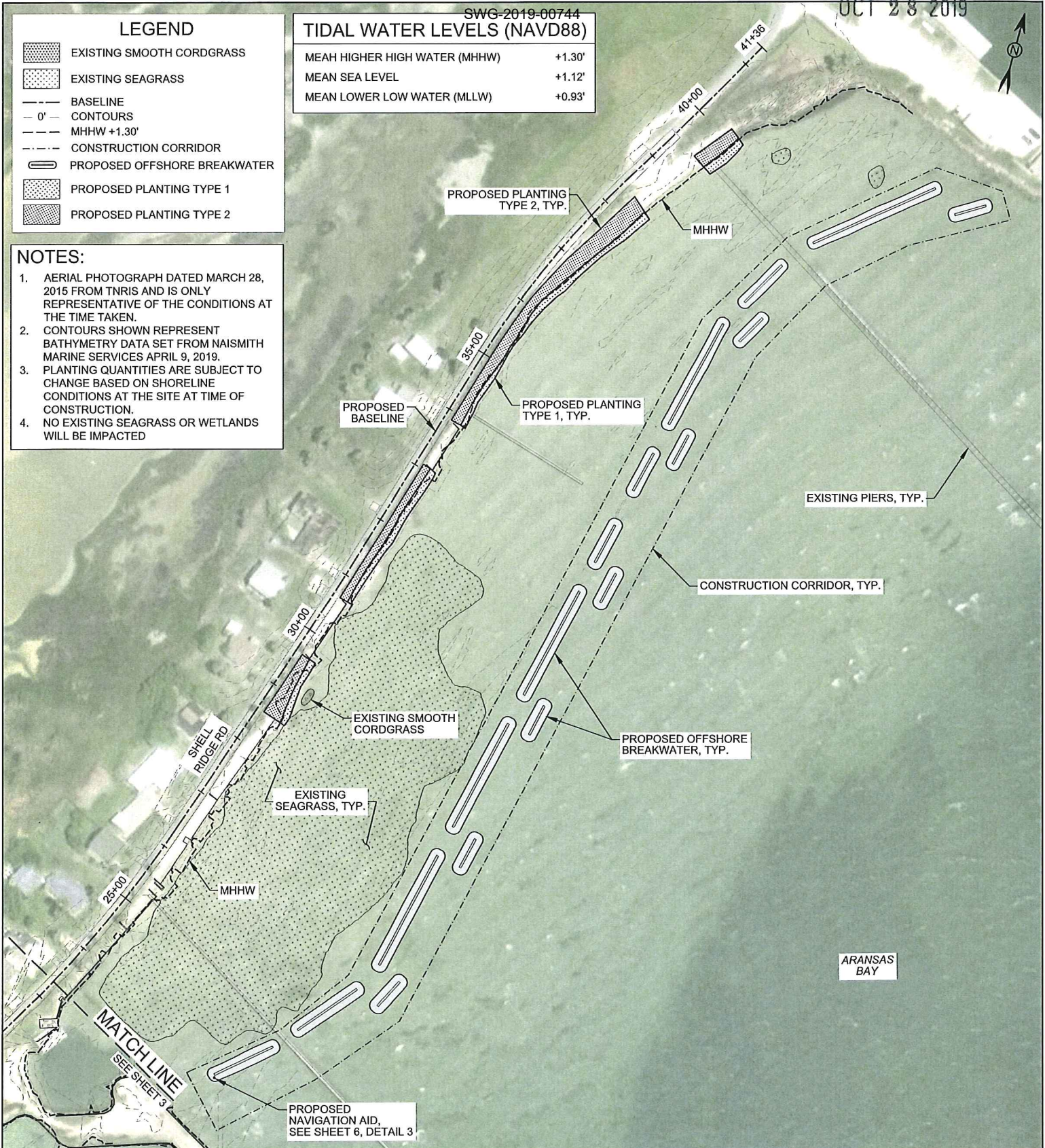
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**TIDAL WATER LEVELS (NAVD88)**

MEAH HIGHER HIGH WATER (MHHW)	+1.30'
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**NOTES:**

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**PERMIT**



APPLICANT: ARANSAS COUNTY

OCTOBER 25, 2019 SHEET 4 OF 6

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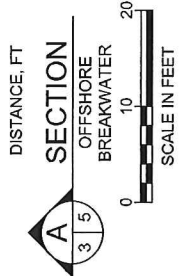
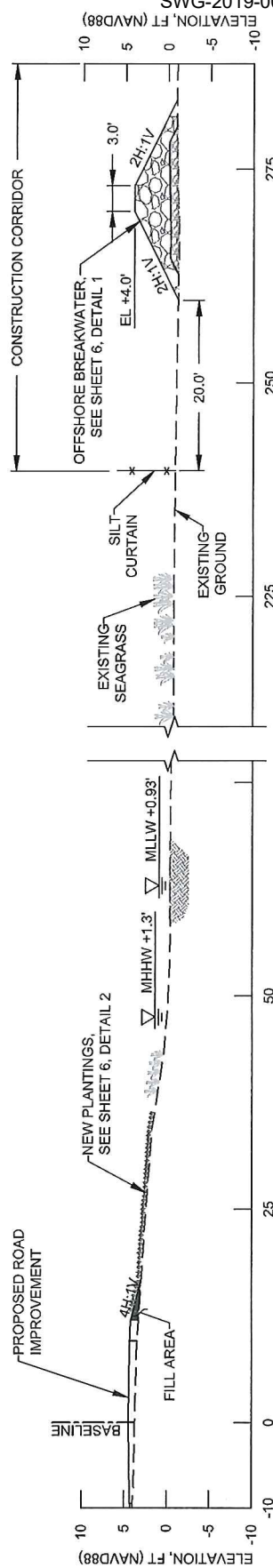
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**SHELL RIDGE ROAD  
 FLOOD HAZARD MITIGATION**

**SITE PLAN 2**

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



TIDAL WATER LEVELS (NAVD88)	
MEAN HIGHER HIGH WATER (MHHW)	+1.30'
MEAN SEA LEVEL	+1.12'
MEAN LOWER LOW WATER (MLLW)	+0.93'

PERMIT

APPLICANT: ARANSAS COUNTY

OCTOBER 25, 2019

SHEET 5 OF 6

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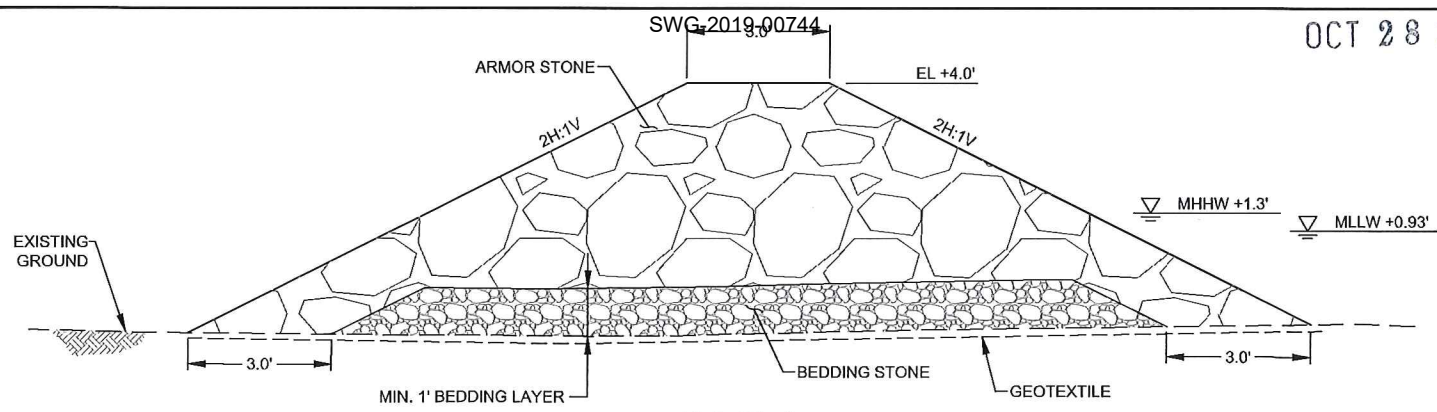
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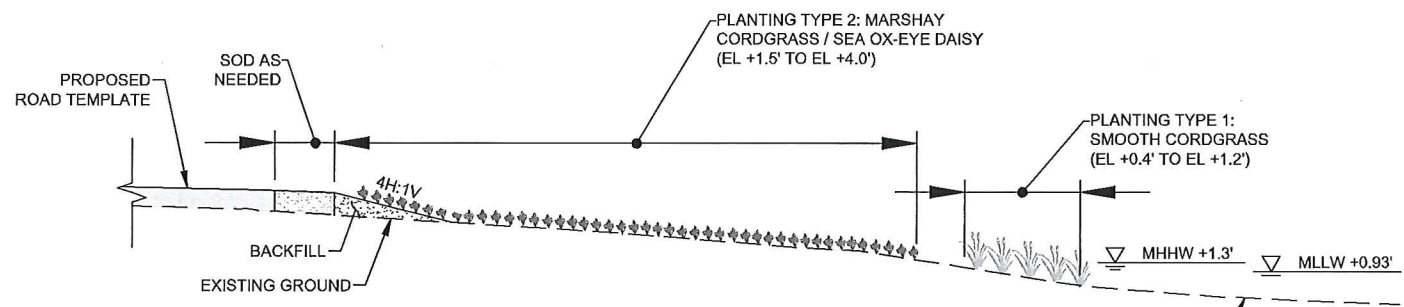
**SHELL RIDGE ROAD  
 FLOOD HAZARD MITIGATION**

**CROSS SECTION**

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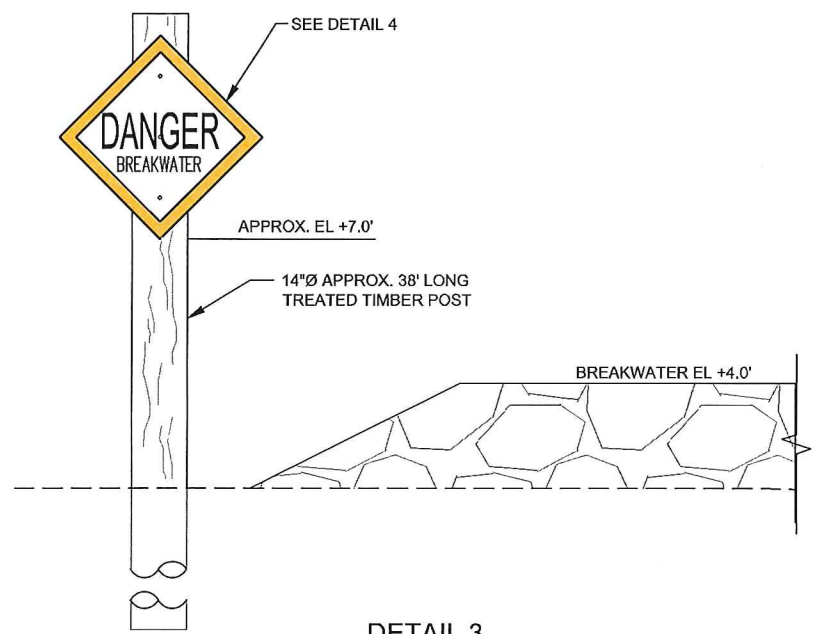


**DETAIL 1**  
OFFSHORE BREAKWATER  
0 2 4  
SCALE IN FEET

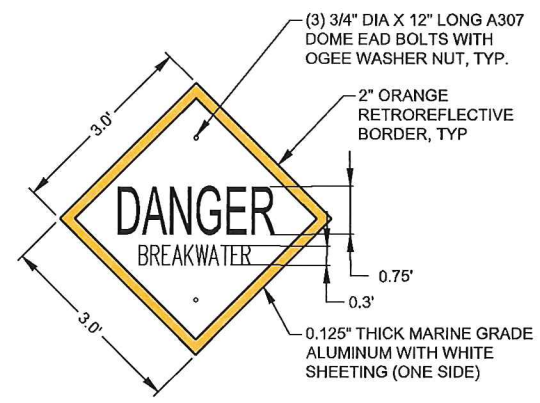


**DETAIL 2**  
PLANTINGS  
0 4 8  
SCALE IN FEET

**NOTE:**  
1. SEE SHEETS 3 & 4 FOR PLANTING AREAS PER TYPE.



**DETAIL 3**  
NAVIGATION AID  
0 2 4  
SCALE IN FEET



**DETAIL 4**  
DAYBOARD  
N.T.S.

TIDAL WATER LEVELS (NAVD88)	
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MEAN SEA LEVEL	+1.12'
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**PERMIT**

APPLICANT: ARANSAS COUNTY

OCTOBER 25, 2019 SHEET 6 OF 6

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**SHELL RIDGE ROAD  
FLOOD HAZARD MITIGATION**  
**BREAKWATER AND  
PLANTING DETAILS**

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