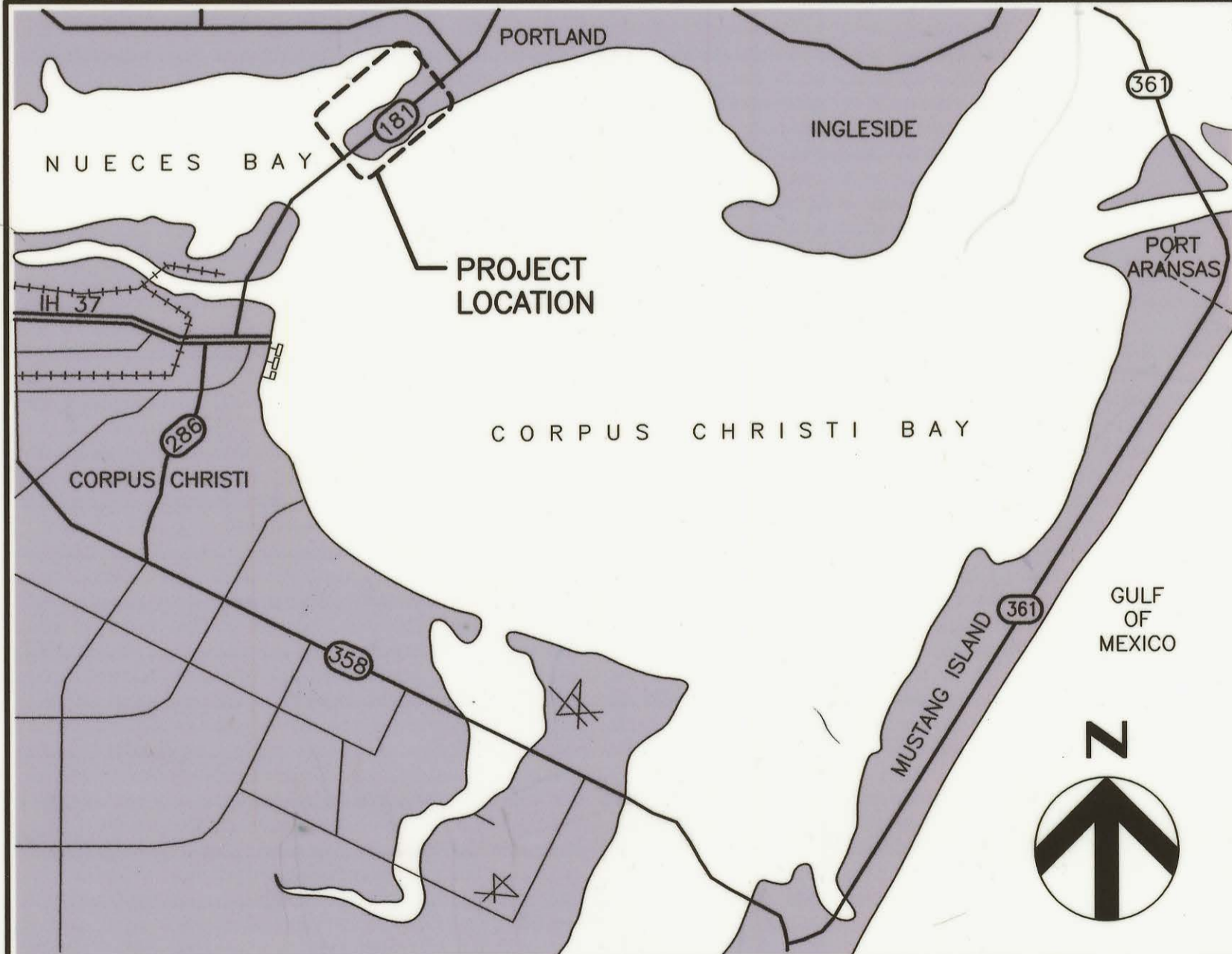


LINE NO.	DIRECTION	LENGTH	VARA
L1	N64°08'57"E	43.25'	15.570
L2	N50°09'32"E	90.67'	32.641
L3	N46°00'40"E	57.69'	20.768
L4	N60°52'37"E	52.81'	19.012
L5	N47°29'31"E	103.76'	37.354
L6	N43°38'20"E	86.93'	31.295
L7	N24°30'19"E	1.16'	0.418
L8	N88°25'45"E	70.13'	25.247
L9	N77°37'39"E	55.30'	19.908
L10	N64°44'35"E	30.56'	11.002

LINE NO.	DIRECTION	LENGTH	VARA
L11	N69°20'54"E	65.89'	23.720
L12	N3°14'14"E	17.71'	6.376
L13	S85°14'46"W	19.67'	7.081
L14	N70°15'59"W	6.28'	2.261
L15	N39°35'54"E	81.80'	29.448
L16	N48°04'10"E	94.68'	34.085
L17	N37°21'44"E	81.24'	29.246
L18	N40°36'43"E	82.53'	29.711
L19	N4°06'29"E	23.96'	8.626
L20	N89°36'09"E	18.72'	6.739

LINE NO.	DIRECTION	LENGTH	VARA
L21	N60°37'18"E	30.25'	10.890
L22	N31°08'38"E	19.10'	6.876
L23	N69°01'30"E	37.46'	13.486
L24	S65°33'01"E	73.55'	26.478
L25	N79°46'18"E	46.85'	16.866
L26	N43°25'27"E	34.97'	12.589
L27	N24°40'00"E	30.24'	10.886
L28	N60°19'16"E	31.28'	11.261
L29	S66°52'58"E	49.90'	17.964
L30	N73°24'48"E	50.69'	18.248
L31	N61°21'46"E	51.08'	18.389
L32	N31°55'14"E	40.06'	14.422
L33	S88°55'57"E	26.83'	9.659
L34	N19°43'11"E	38.08'	13.709
L35	N4°17'54"W	28.02'	10.087
L36	N79°37'21"E	90.99'	32.756
L37	N31°19'19"E	92.76'	33.394
L38	N45°15'02"E	20.59'	7.412
L39	N12°10'04"E	50.38'	18.137
L40	N38°22'00"E	81.47'	29.329
L41	N53°29'41"E	159.69'	57.488
L42	N25°53'58"E	58.13'	20.927
L43	N56°13'41"E	40.71'	14.656
L44	N23°02'32"E	40.90'	14.724
L45	N3°56'32"E	26.18'	9.425
L46	N38°28'17"E	19.47'	7.009
L47	N64°58'52"W	18.40'	6.624
L48	S71°19'02"W	19.73'	7.103
L49	S86°26'49"W	13.88'	4.997
L50	N42°52'40"E	29.22'	10.519
L51	N13°44'46"E	23.95'	8.622
L52	N35°47'57"E	18.03'	6.491



**NOTES:**

- ALL SURVEYING WAS PERFORMED BY HDR ENGINEERING, INC. FROM GPS OBSERVATIONS. THIS DRAWING REPRESENTS THE CONDITIONS THAT EXISTED AT THE TIME OF THE SURVEY CONDUCTED ON JUNE 2 AND 3, 2009.  
FIELD PERSONNEL: GEORGE RUBALCABA, R.P.L.S., L.S.L.S.  
ERIC OLIVEIRA  
HOMER MARTINEZ
- ALL ELEVATIONS SHOWN ARE IN FEET AND REFERENCED TO NAVD '88.
- COORDINATES SHOWN ARE GRID IN U.S. FEET AND REFERENCED TO TEXAS COORDINATE SYSTEM, TEXAS SOUTH ZONE, AS DEFINED BY ARTICLE 21.071 OF THE NATURAL RESOURCES CODE OF THE STATE OF TEXAS, 1983 DATUM.
- MONUMENTS USED FOR HORIZONTAL AND VERTICAL CONTROL WERE:  
"MARIAH" N. 17,200,025.96  
E. 1,352,830.69  
ELEV. 3.10'  
"C 1271" ELEV. 1.85'
- MEAN HIGHER HIGH WATER DETERMINED TO BE 0.94' NAVD '88 FROM THREE DAY MONITORING AND COMPARISON TO COON TIDAL INFORMATION AT TEXAS STATE AQUARIUM TIDE GAUGE NO. 008 AND NUECES BAY WHITE POINT TIDE GAUGE NO. 011.
- BASIS OF BEARINGS IS "TEXAS COORDINATE SYSTEM" PER SECTION 21.071 OF THE NATURAL RESOURCES CODE.
- DISTANCES AND BEARINGS ARE GRID. SCALE FACTOR FOR "MARIAH" IS 1.00000868, CONVERGENCE IS +0°-31'-04.2"
- THIS SURVEY DOES NOT, NOR IS INTENDED TO BE USED TO IDENTIFY, DELINEATE OR FIX THE LINE OF VEGETATION OR THE LANDWARD BOUNDARY OF THE PUBLIC BEACH.
- NO RETAINING WALL OR OTHER STRUCTURAL MODIFICATIONS HAVE BEEN PLACED ON OR ALONG THE LITTORAL BOUNDARY
- AERIAL PHOTOGRAPH WAS OBTAINED FROM NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA).
- UPLAND OWNERS  
① ALTAIR DEVELOPMENT CORP.  
611 CONSTELLATION BOULEVARD  
LEAGUE CITY, TX 77573-6431  
② COASTAL BEND BAYS & ESTUARIES PROGRAM INC.  
1305 N. SHORELINE BLVD., ST 205  
CORPUS CHRISTI, TX 78401-1500  
③ THAKOR DEEPAK  
133 U.S. HIGHWAY 181  
PORTLAND, TX. 78374-1757
- BEARINGS IN PARENTHESIS ARE RECORDED BEARINGS AS PER VOL 623, PAGE 675, DEED RECORDS SAN PATRICIO COUNTY, TEXAS

I, GEORGE RUBALCABA, LICENSED STATE LAND SURVEYOR, HEREBY STATE THAT THIS DRAWING REPRESENTS THE CONDITIONS THAT EXISTED AT THE TIME OF THE MEAN HIGHER HIGH WATER (MHHW) LINE SURVEY CONDUCTED ON JUNE 2 AND 3, 2009. TO THE BEST OF MY KNOWLEDGE, THERE IS NO ARTIFICIAL FILL OR ACCRETION LOCATED WITHIN THE SURVEYED AREA.

**NOTICE:** THIS SURVEY WAS PERFORMED IN ACCORDANCE WITH SECTION 33.136, NATURAL RESOURCES CODE, FOR THE PURPOSE OF EVIDENCING THE LOCATION OF THE SHORELINE IN THE AREA DEPICTED IN THIS SURVEY AS THAT SHORELINE EXISTED BEFORE COMMENCEMENT OF EROSION RESPONSE ACTIVITY, AS REQUIRED BY CHAPTER 33, NATURAL RESOURCES CODE. THE LINE DEPICTED ON THIS SURVEY FIXES THE SHORELINE FOR THE PURPOSE OF LOCATING A SHORELINE BOUNDARY, SUBJECT TO MOVEMENT LANDWARD AS PROVIDED BY SECTION 33.136, NATURAL RESOURCES CODE.

THE LIMITS OF THESE LITTORAL BOUNDARIES WERE DETERMINED BY METHODOLOGY APPROVED BY THE TEXAS GENERAL LAND OFFICE AS PER TITLE 31, CHAPTER 7, RULE 7.2 (COASTAL LANDS) OF THE TEXAS ADMINISTRATIVE CODE.

*George Rubalcaba* 2/3/2010  
 GEORGE RUBALCABA  
 LICENSED STATE LAND SURVEYOR  
 555 N CARANCAHUA SUITE 1650  
 CORPUS CHRISTI, TX 78478  
 361-857-2211



TEXAS GENERAL LAND OFFICE  
 Art. 33.136, Natural Resources Code  
 Co. San Patricio, Survey No. 6  
 File Date 02/27/2010 by K. Schaefer

<p>HDR Engineering, Inc. Texas P.E. Firm Registration No. 754</p>	<p>0 02-03-2010 ISSUED TO GLO</p>	<p>PROJECT MANAGER M. CAMERON PERRY                  SURVEYOR G. RUBALCABA                  CADD TECHNICIAN B. JACKSON</p>	<p>Coastal Bend Bays and Estuaries Program, Inc.                  Portland Causeway Marsh Restoration Phase 1</p>	<p>COASTAL BOUNDARY SURVEY                  C.W. EGERY SURVEY, A-111                  NUECES AND SAN PATRICIO COUNTIES, TEXAS</p>
	<p>ISSUE DATE DESCRIPTION</p>	<p>PROJECT NUMBER 107808</p>		





**Survey Division  
Coastal Boundary Survey Approval**

**Project:** Portland Causeway Marsh Restoration – Phase 1  
**Project No:** SL 20100022 GLO  
**Project Manager:** Manuel Freytes, GLO Regional Director, Lower Coast  
**Surveyor:** George Rubalcaba, L.S.L.S.

**Description:** Coastal Boundary Survey, conducted by George Rubalcaba, Licensed State Land Surveyor, of Nueces County and dated June 2 & 3, 2009, locating littoral boundary line of a portion of the north boundary of the C.W. Egery Survey, Abstract 111, same line being on a portion of the southern shoreline of State of Texas owned, Submerged Land Tract No.752, as shown on Submerged Area Map No. 2797-431, filed in the records of the Texas General Land Office, situated on the southern shore of Nueces Bay, along U.S. Highway No. 181, approximately 1.5 miles southwest from the intersection of Beach Street in Portland.

A Coastal Boundary Survey for the above-referenced project has been reviewed and accepted; upon completion of public notice requirements, the survey will be filed in the Texas General Land Office, Archives and Records, in accordance with provisions of the *Texas Natural Resources Code*, Chapter 33.136.

Approved:

Signed: David A. Pyle  
Survey Division

Feb. 5, 2010  
Date

Approval Filed as:

*Tex.Nat.Res.Code* Article 33.136, San Patricio County, Report No. 6

**TEXAS GENERAL LAND OFFICE**  
Art. 33.136, Natural Resources Code  
Co. San Patricio, SKETCH No. 6  
File Date 03/27/2018 by K. Schreiber



February 3, 2010

107808

Mr. William D. "Bill" O'Hara, R.P.L.S., L.S.L.S.  
Director Survey Division  
Texas General Land Office  
Stephen F. Austin Building  
1700 N. Congress Avenue  
Austin, Texas 78701-1495

RE: SURVEY AT NUECES BAY, NUECES COUNTY, TEXAS (STATE COASTAL  
BOUNDARY SURVEY)

Dear Mr. O'Hara:


Enclosed are the State Coastal Boundary Survey Drawings depicting the survey conducted by us on the Shoreline of Nueces Bay in Nueces and San Patricio Counties. The Mean Higher High water Line shown was determined from TCOON Tide Gauge No. 008 at Texas State Aquarium and TCOON Tide Gauge No. 011 at White Point as the control stations.

State Plane Coordinates were arrived at from the monumentation shown on the drawing. Elevations are referenced to NAVD' 88 datum and the monumentation used for the vertical is also noted on the drawing.

Thanks again for your time and assistance on this project. If you should have any questions, please call me at (361) 857-2211.

Sincerely,

HDR ENGINEERING, INC.

  
George Rubalcaba, R.P.L.S., L.S.L.S.  
Survey Group Manager

GR/dl

Enclosures: State Coastal Boundary Survey Drawings

cc: Cameron Perry

**TEXAS GENERAL LAND OFFICE**  
An. 33-136, Natural Resources Code  
Co. SAN PATRICIO, Sketch No. 6  
File Date 03/27/2010 by K. Schreiber

