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## Survey Report Shoreline Boundary Survey Boat Hole Marina Corpus Christi, Nueces County, Texas

The following is a report of survey of a portion of the western shoreline of the Laguna Madre in Nueces County, Texas. The subject shoreline is situated approximately 11.8 miles, South 42° East, from the County Seat at Corpus Christi, Texas and about ½ mile north of the J. F. K. Causeway. This report accompanies two separate survey plats and field notes descriptions and is a part of the survey. The plats and field notes delineate the shoreline and two areas of artificially filled submerged land.

The purpose of the survey was to determine the extent of areas of the artificially filled submerged lands, lying adjacent to and seaward of the shoreline or littoral boundary between Laguna Madre Submerged Land Tract 12 and the "Rincon De Corpus Christi", Ramon De Ynojosa Survey, Abstract 411. The Ynojosa Survey was originally granted by the State of Tamaulipas of the Republic of Mexico, which operated under Spanish Civil Law. Under Civil Law, the littoral boundary is located along the line of constant elevation at Mean Higher High Water (MHHW). The land was later patented on a survey made under authority of an act by the Texas Legislature, passed February 10, 1852, to "relinquish the rights of the State of Texas in certain lands listed herein".

The subject shoreline/littoral boundary was previously surveyed by me, as part of the platting of an upland tract, known as Lot 1 Block 1, Boat Hole Marina. At the time of the prior survey it was observed that the shoreline, in its natural state, had been covered by artificial fill and could not be determined by delineating the MHHW line along its contour elevation.

I interviewed the upland owner Mr. Ray Cox, Jr. and he stated that the fill had been placed by his father on authority of a permit (W-N-243-41-PERMIT-4406) issued by the U.S. Corps of Engineers. He provided a letter (see attached Exhibit A) dated January 19, 1959 and addressed to his father, Mr. Ray Cox, authorizing the dredging of a 50 foot by 100 foot basin and a 16 foot by 1000 foot channel and placement of the dredge fill along side the channel. The date of the actual fill operation is unknown but based on dated aerial photographs, appears to have occurred sometime between 1959 and 1961.

Due to the fill situation, it was necessary to utilize an alternative method for determining the original natural shoreline/littoral boundary. I examined copies of aerial photographs with dates ranging from 1956 to 2004. To establish the natural shoreline, I scaled points along the visible debris wash line as seen on the latest available photograph (dated 1956), that reveals the shoreline as it existed prior to the filling operation. This method has a much lower degree of accuracy than following a natural shoreline along a contour elevation but is the most expedient and economical under the circumstances. The photograph with the scaled line overlaid onto it has been plotted on the accompanying

> **TEXAS GENERAL LAND OFFICE** Art. 33.136, Natural Resources Code Co. NUECES Sketch No. 14, sheet 2 I # II filed as Nueces File Date Sept. 26, 200 by D. J.H.

Field Notes for Tracts -County Rolled Sketch 138 sheets 2 through 5

maps. Another photo taken in 2004, with the scaled line overlaid onto it is also plotted on the maps.

The current survey established the limits of the filled areas along the toe of the existing fill. Tract I contains 1.085 acres and Tract II contains 1.076 acres of land. Points at which the lines of the toe intersected with the shoreline, as scaled from the photograph, were calculated to establish a closed figure and derive the acreages of the two filled areas. The shoreline, as established by this method, was monumented on the ground at each angle point, with the exception of two points, which fall in the bottom of the existing dredged marina.

Respectfully submitted:

David A. Pyle 9/3/2008

Licensed State Land Surveyor (R.P.L.S. #4700)

Professional Services/Surveying Division

Texas General Land Office

TEXAS GENERAL LAND OFFICE

TEXAS GENERAL LAND OFFICE

Art. 33.136, Natural Resourcesh 24.3beet 3

Art. 33.136, Natural Resourcesh 24.3beet 3

Co. NUECES 2208 Dy D. J. H.

File Date Sept. 267

File Date Sept. 267

#### Boat Hole Marina Tract I

#### STATE OF TEXAS COUNTY OF NUECES

FIELD NOTES DESCRIPTION OF A 1.085 ACRE TRACT OF ARTIFICIALLY FILLED, SUBMERGED LAND, OWNED BY THE STATE OF TEXAS, BEING A PART OF LAGUNA MADRE SUBMERGED LAND TRACT 12, NUECES COUNTY, TEXAS, SITUATED APPROXIMATELY 11.8 MILES, SOUTH 42° EAST, FROM THE COUNTY SEAT AT CORPUS CHRISTI TEXAS AND ABOUT ½ MILE NORTH OF THE J. F. K. CAUSEWAY, THIS TRACT BEING MORE PARTICULARLY DESCRIBED BY METES AND BOUNDS AS FOLLOWS;

Beginning at a point in the littoral boundary line on the western shore of the Laguna Madre, as established from an aerial photograph, dated 1956, same line being the easterly boundary line of "El Rincon de Corpus Christi", Ramon De Ynojosa Grant, for the south corner of this tract, same point being at grid coordinate Y = 17,134,873.78 feet (6,168,554.561 varas), and X = 1,382,202.70 feet (497,592.972 varas), based on the Texas Coordinate System, South Zone, North American Datum of 1983, derived from Global Positioning System observations, processed by the National Geodetic Survey (NGS) Online Positioning User Service (OPUS);

THENCE, with said littoral boundary line, the following courses and distances:

North 40° 47' 12" West [South 40° 14' 37" East], 58.96 feet (21.226 varas), to a 5/8 inch iron rod, with plastic cap, stamped TEXAS GLO, set, for a corner of this tract;

North 23° 28' 33" West [South 22° 55' 58" East], 78.86 feet (28.390 varas), to a 5/8 inch iron rod, with plastic cap, stamped TEXAS GLO, set, for a corner of this tract;

North 15° 33' 17" West [South 15°00' 42" East], 93.26 feet (33.574 varas), to a 5/8 inch iron rod, with plastic cap, stamped TEXAS GLO, set, for a corner of this tract;

North 28° 51' 05" East [South 29° 23' 40" West], 65.21 feet (23.476 varas), to a 5/8 inch iron rod, with plastic cap, stamped TEXAS GLO, set, for a corner of this tract;

North 44° 14' 21" East [South 44° 46' 55" West], 58.81 feet (21.172 varas), to a 5/8 inch iron rod, with plastic cap, stamped TEXAS GLO, set, for a corner of this tract;

North 53° 45' 44" East [South 54° 18' 19" West], 240.69 feet (86.648 varas), to a 5/8 inch iron rod, with plastic cap, stamped TEXAS GLO, set, for a corner of this tract;

North 38° 25' 46" East [South 38° 58' 21" West], 19.65 feet (7.074 varas), to a 5/8 inch iron rod, with plastic cap, stamped TEXAS GLO, set, for a corner of this tract;

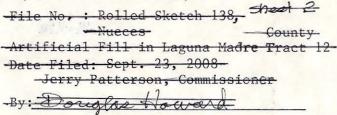
THENCE, leaving said littoral boundary line and with the existing toe of concrete rip-rap lining the aforementioned area of artificial fill, the following courses and distances:

South 61° 22' 47" East, 43.48 feet (15.653 varas), to a point, for a corner of this tract; South 11° 34' 23" East, 52.49 feet (18.896 varas), to a point, for a corner of this tract; South 52° 12' 11" East, 72.63 feet (26.147 varas), to a point, for a corner of this tract; South 37° 27' 15" East, 6.24 feet (2.246 varas), to a point, for a corner of this tract;

TEXAS GENERAL LAND OFFICE Art. 33.136, Natural Resources Code

Co. Nueces Sketch No. 14, Sheet 4, 1

File Date 9-23-2008 by D.J.H.



#### Boat Hole Marina Tract I

South 23° 46' 03" West, 57.56 feet (20.722 varas), to a point, for a corner of this tract; South 46° 45' 47" West, 11.44 feet (4.118 varas), to a point, for a corner of this tract; South 62° 03' 52" West, 51.72 feet (18.619 varas), to a point, for a corner of this tract; South 81° 57' 06" West, 8.93 feet (3.215 varas), to a point, for a corner of this tract; North 73° 07' 03" West, 18.66 feet (6.718 varas), to a point, for a corner of this tract; North 55° 52' 06" West, 122.56 feet (44.122 varas), to a point, for a corner of this tract; North 59° 12' 18" West, 28.40 feet (10.224 varas), to a point, for a corner of this tract; South 29° 07' 47" West, 246.05 feet (88.578 varas), to a point, for a corner of this tract; South 60° 55' 08" East, 68.05 feet (24.509 varas), to a point, for a corner of this tract; South 59° 54' 44" East, 33.99 feet (12.236 varas), to a point, for a corner of this tract; South 11° 02' 20" East, 7.25 feet (2.610 varas), to a point, for a corner of this tract; South 12° 58' 52" West, 5.72 feet (2.059 varas), to a point, for a corner of this tract; South 26° 46' 49" West, 3.81 feet (1.372 varas), to a point, for a corner of this tract; South 41° 51' 09" West, 5.06 feet (1.822 varas), to a point, for a corner of this tract and; South 25° 11' 16" West, 66.14 feet (23.810 varas): to the Place of Beginning and containing 1.085 acres of land.

Bearings cited herein are GRID Mapping Angle (Theta) 0°33'29.03" Distances and Areas are SURFACE Scale Factor = 0.999963311

Bearings shown in brackets are as called on recorded map of Lot 1, Block 1, Boat Hole Marina, filed in Volume 64, Page 187, of the Map records of Nueces County, Texas.

The foregoing description accompanies a survey report, two survey plats and a separate field notes description.

"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."

Date of Survey April 12 & May 21, 2008 Field Survey Personnel David Holmes Willie Miles Jason Smalley

I, David A. Pyle, Licensed State Land Surveyor in and for the State of Texas, General Land Office, do hereby certify that the foregoing description was prepared from a survey, made by me on the ground, according to law, on the dates and with field personnel aforesaid, and that the limits, corners, and boundaries with the marks of the same, natural and artificial, are truly and correctly described as set forth in the foregoing field notes.

David A. Pyle

Licensed State Land Surveyor (R.P.L.S. #4700)

Texas General Land Office

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TEXAS GENERAL LAND OFFICE

33.136, Natural Resources Code

File Date 9-23-2008 by

### Boat Hole Marina Tract II

TEXAS GENERAL LAND OFFICE
Art. 33.136, Natural Resources Code
Sketch
Co. NUECES Report No. 14, Sheet 6
File Date 9-23-2008 by D.J. H.

STATE OF TEXAS COUNTY OF NUECES

FIELD NOTES DESCRIPTION OF A 1.076 ACRE TRACT OF ARTIFICIALLY FILLED, SUBMERGED LAND, OWNED BY THE STATE OF TEXAS, BEING A PART OF LAGUNA MADRE SUBMERGED LAND TRACT 12, NUECES COUNTY, TEXAS, SITUATED APPROXIMATELY 11.8 MILES, SOUTH 42° EAST, FROM THE COUNTY SEAT AT CORPUS CHRISTI, TEXAS AND ABOUT ½ MILE NORTH OF THE J. F. K. CAUSEWAY, THIS TRACT BEING MORE PARTICULARLY DESCRIBED BY METES AND BOUNDS AS FOLLOWS;

Beginning at a 5/8 inch iron rod, with plastic cap, stamped TEXAS GLO, set, in the littoral boundary line on the western shore of the Laguna Madre, as established from dated (1956) aerial photography, same line being the easterly boundary line of "El Rincon de Corpus Christi", Ramon De Ynojosa Grant, for the south corner of this tract, same point being at grid coordinate Y = 17,134,672.39 feet (6,168,482.060 varas), and X = 1,382,322.52 feet (497,636.107 varas), based on the Texas Coordinate System, South Zone, North American Datum of 1983, derived from Global Positioning System observations, processed by the National Geodetic Survey (NGS) Online Positioning User Service (OPUS);

Thence, with said littoral boundary line, the following courses and distances:

North 16° 34' 22" West [South 16° 01' 48" East], 46.69 feet (16.808 varas), to a 5/8 inch iron rod, with plastic cap, stamped TEXAS GLO, set, for a corner of this tract; North 32° 03' 27" West [South 31° 30' 53" East], 142.87 feet (51.433 varas), to a 5/8 inch iron rod, with plastic cap, stamped TEXAS GLO, set for a corner of this tract and; North 40° 47' 12" West [South 40° 14' 37" East], 30.40 feet (10.944 varas), to a point, for the west corner of this tract;

Thence, leaving said littoral boundary line and with the existing toe of concrete rip-rap lining and area of artificial fill, the following courses and distances:

South 61° 37' 09" East, 37.84 feet (13.622 varas), to a point, for a corner of this tract; North 84° 44' 24" East, 11.45 feet (4.122 varas), to a point, for a corner of this tract; North 28° 02' 07" East, 61.35 feet (22.086 varas), to a point, for a corner of this tract; North 12° 02' 40" East, 101.27 feet (36.457 varas), to a point, for a corner of this tract; North 52° 45' 26" East, 27.54 feet (9.914 varas), to a point, for a corner of this tract; South 69° 39' 18" East, 21.72 feet (7.819 varas), to a point, for a corner of this tract; South 55° 08' 23" East, 101.86 feet (36.670 varas), to a point, for a corner of this tract; South 39° 16' 04" East, 75.23 feet (27.083 varas), to a point, for a corner of this tract; South 36° 02' 34" West, 100.85 feet (36.306 varas), to a point, for a corner of this tract; South 36° 02' 34" West, 90.46 feet (32.566 varas), to a point, for a corner of this tract; South 29° 18' 28" West, 30.92 feet (11.131 varas), to a point, for a corner of this tract; South 44° 47' 17" West, 23.32 feet (8.395 varas), to a point, for a corner of this tract;

See Survey Report Filled as Mueces Go. TNRC Art. 33.136 sketch 14, sheets 2

North 84° 28' 39" West, 13.30 feet (4.788 varas), to a point, for a corner of this tract and; South 68° 12' 52" West, 24.54 feet (8.834 varas);

to the Place of Beginning and containing 1.076 acres of land.

Bearings cited herein are GRID Mapping Angle (Theta) 0°33'29.03"

Distances and Areas are SURFACE Scale Factor = 0.999963311

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David A. Pyle

Licensed State Land Surveyor (R.P.L.S. #4700)

Texas General Land Office

TEXAS GENERAL LAND OFFICE

Art. 33.136, Natural Resources Code

Art. 33.136, Natural Resources Code

Co. NUE CES REPORTIVO.14 sheet 7

File Date 9-23-2018 by D.J. H.



# MEMORANDUM

Texas General Land Office • Jerry Patterson • Commissioner

DATE: September 22, 2008

TO: **Doug Howard** 

FROM: David Pyle

SUBJECT: Revisions to maps of the Boat Hole Marina Project in Nueces County.

Doug:

The purpose of this memorandum is to request that you make revisions to correct scrivener errors found on two maps, recently filed by me, in the General Land Office records. The maps to be revised are filed as Article 33.136, Nueces County Sketch 14, Sheet 1 and Nueces County Rolled Sketch 138, Sheet 1. Sheet 9

The same errors appear on both maps and consist of:

\* One of the aerial photographs, dated 1965, should be revised to read 1956.

Please let me know if you have questions or comments.

Thank you:

David A Pvle, L.S.L.S.

Texas General Land Office

Vand S. Bl

Professional Services/Surveying Division

File No. Rolled Sketch 138, sheet 6

Memo Authorizing Plat Corrections

By Douglas Howard

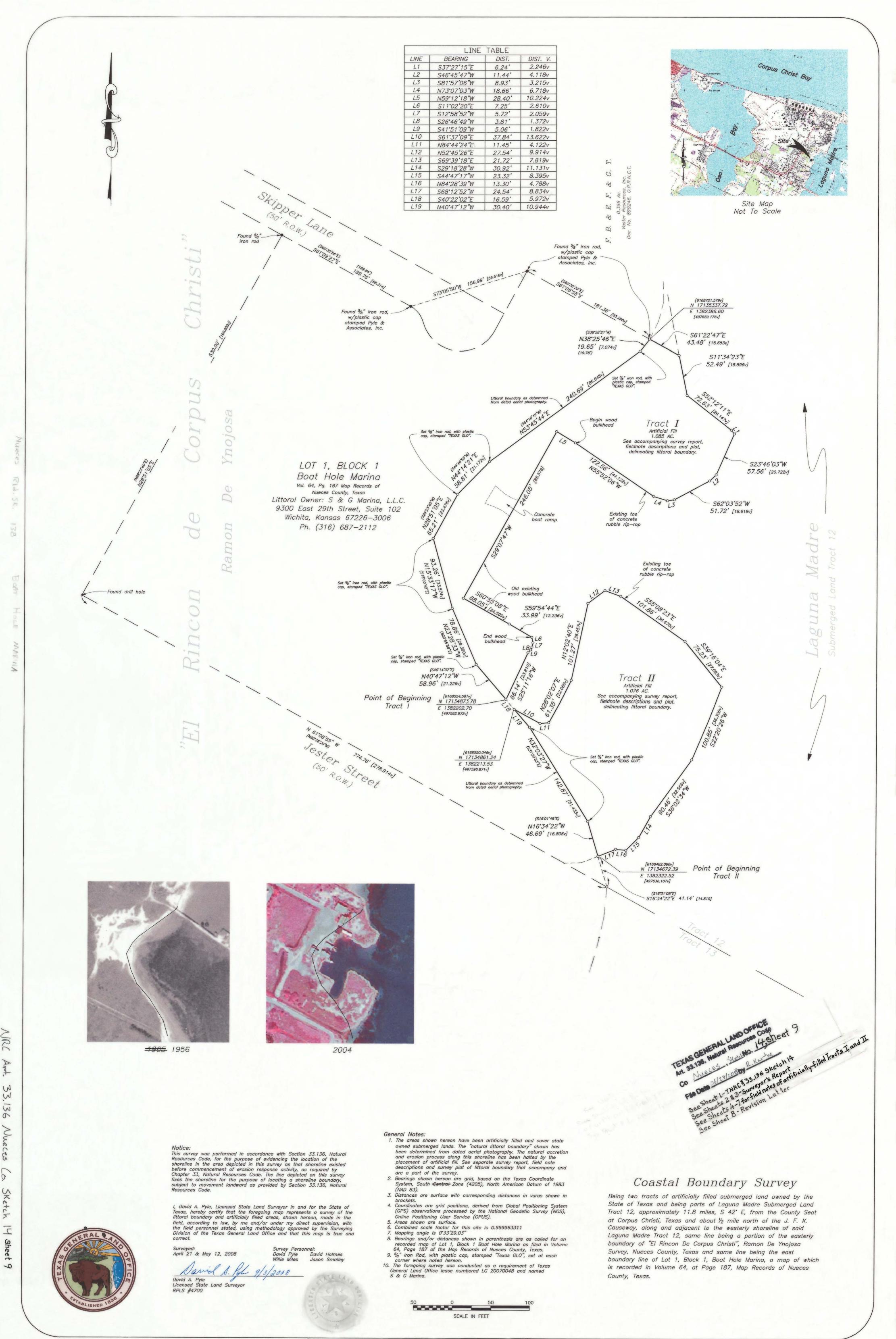
TEXAS GENERAL LAND OFFICE

Art. 33.136, Natural Resources Code

Co. NUECES FEDTNO. 14, sheet 8

File Date 10-3-2008 by D.J.H

<sup>\*</sup> In Note #2 the state plane zone is incorrectly cited as "South Central Zone" and should be revised to read "South Zone".



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