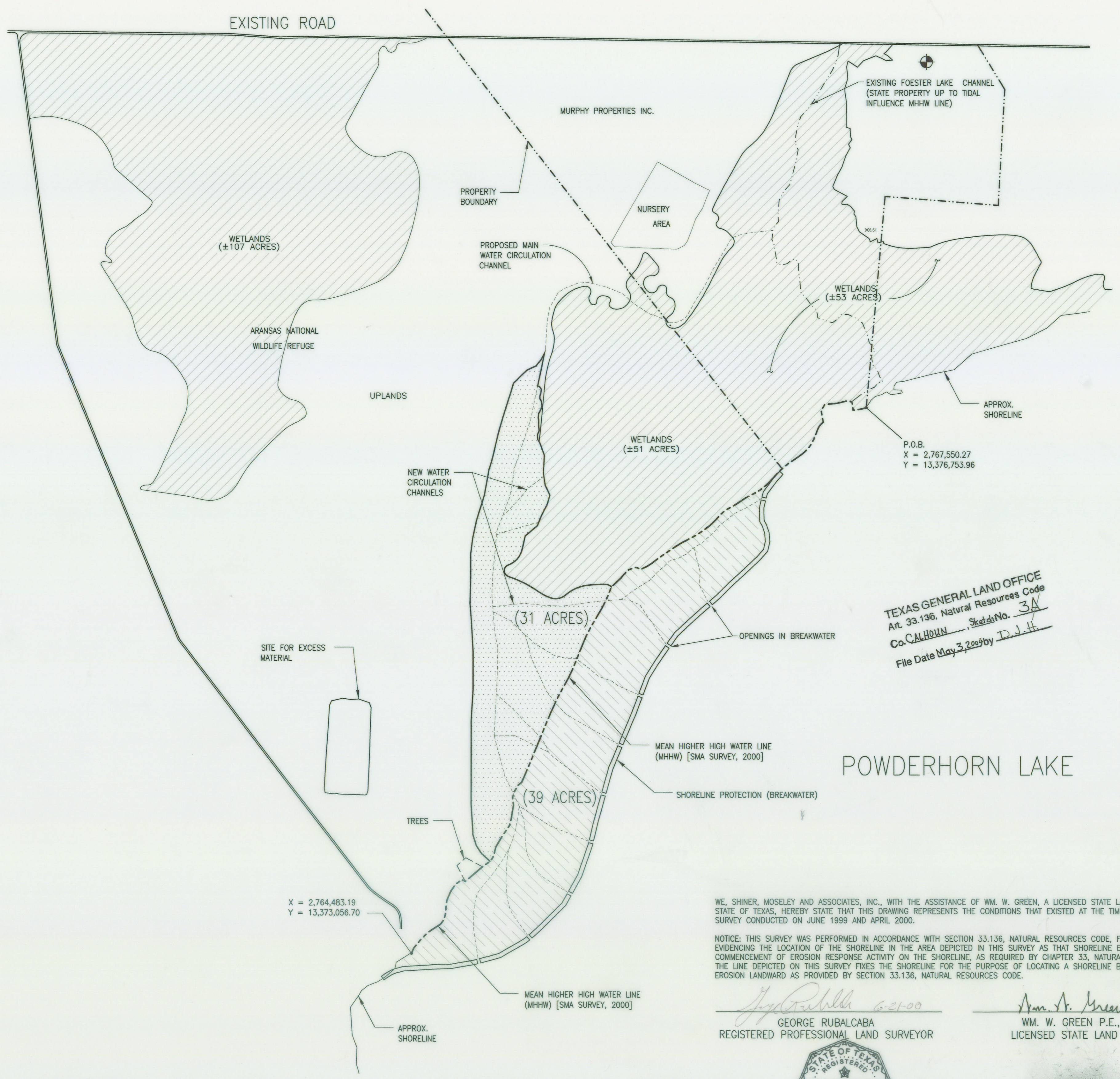


REV	DATE	DESCRIPTION	APP
0	6/21/2000	ISSUED FOR GLO	

PROPOSED MARSH RESTORATION DETAILS

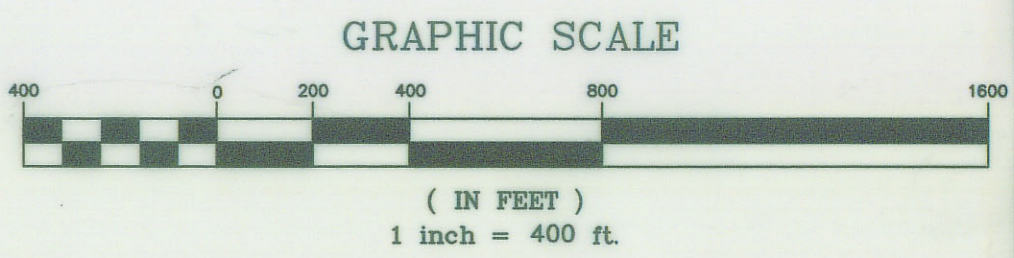


- NOTE:
- PROJECT BM IS USC & GS DISK "TITI" - ELEVATION 7.00' NGVD (MSL '29)
 - MHHW LINE DETERMINED AT ELEVATION 1.03' BASED ON 3 DAY TIDE MONITORING.
 - COORDINATES ARE BASED ON STATE PLANE, TEXAS SOUTH CENTRAL ZONE NAD '83
 - USC & GS STATION "INDIANOLA 2" HAVING X=2,767,197.21, Y=13,385,361.08 USED FOR HORIZONTAL CONTROL.

TEXAS GENERAL LAND OFFICE
 Art. 33.136, Natural Resources Code
 Co. CALHOUN, Sketch No. 3A
 File Date May 3, 2000 by D.J.H.

LEGEND:

	WETLAND DELINEATION LINE
	PROPOSED OFFSHORE WETLANDS
	PROPOSED ONSHORE WETLANDS
	PROJECT BENCHMARK



WE, SHINER, MOSELEY AND ASSOCIATES, INC., WITH THE ASSISTANCE OF WM. W. GREEN, A LICENSED STATE LAND SURVEYOR IN THE STATE OF TEXAS, HEREBY STATE THAT THIS DRAWING REPRESENTS THE CONDITIONS THAT EXISTED AT THE TIME OF THE SHORELINE SURVEY CONDUCTED ON JUNE 1999 AND APRIL 2000.

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 ON THE SHORELINE, 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 EROSION LANDWARD AS PROVIDED BY SECTION 33.136, NATURAL RESOURCES CODE.

George Rubalcaba 6-21-00
 GEORGE RUBALCABA
 REGISTERED PROFESSIONAL LAND SURVEYOR

Wm. W. Green
 WM. W. GREEN P.E., R.P.L.S.
 LICENSED STATE LAND SURVEYOR

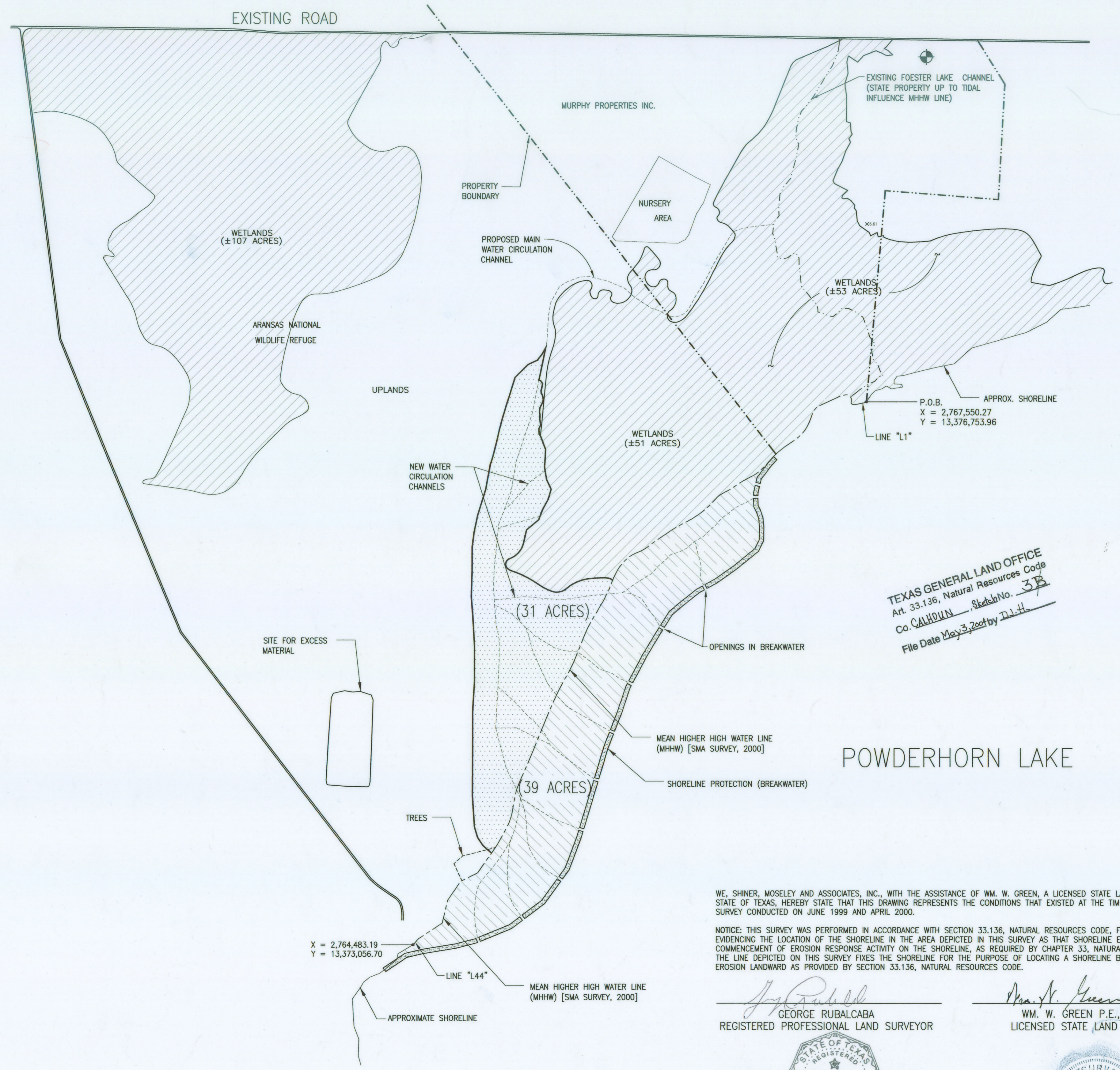
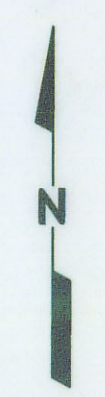


 SHINER MOSELEY AND ASSOCIATES, INC. ENGINEERS & CONSULTANTS 2820 South Padre Island Drive, Suite 210 Corpus Christi, Texas 78416-1818		ALCOA WHITMIRE WETLAND CREATION AND ENHANCEMENT PROJECT CALHOUN COUNTY TEXAS	
SMA JOB NO.: 90040		SHORELINE SURVEY	
DRN	JLM	DATE	05/00
DES		DATE	
CHK	GR	DATE	05/00
APP		DATE	
SCALE 1" = 400'		SHEET NO.	T3
DWG NO 90040T3		REV	0

J:\SMA\Acad\Projects\90040\dwg\90040T3_1.dwg 06/21/00 04:02:16 PM CDT

REV	DATE	DESCRIPTION	APP
0	8/21/2000	ISSUED FOR GLO	
1	7/26/00	CORRECTED MHHW BOUNDARY LINE	JR

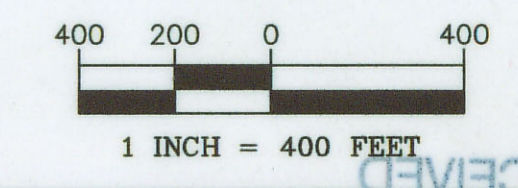
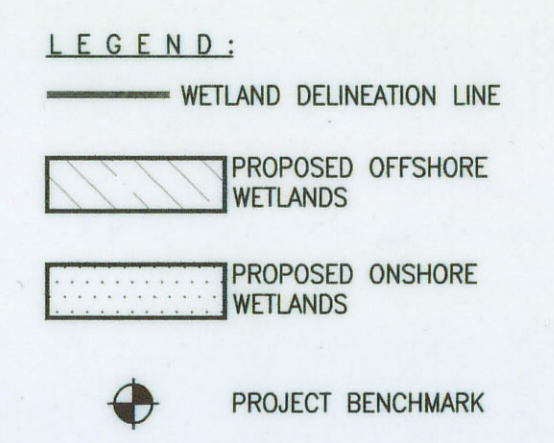
PROPOSED MARSH RESTORATION DETAILS



LINE	BEARING	DISTANCE
L1	S72°39'30"W	53.52'
L2	S85°45'37"W	63.57'
L3	N27°49'29"E	38.25'
L4	N28°37'51"W	45.35'
L5	S87°46'11"W	47.82'
L6	S65°44'19"W	90.15'
L7	S67°34'30"W	78.43'
L8	S47°24'21"W	55.47'
L9	S14°28'46"W	52.03'
L10	S23°41'44"W	98.52'
L11	S49°06'00"W	91.50'
L12	S58°29'24"W	74.67'
L13	S51°42'35"W	97.72'
L14	S39°31'15"W	95.90'
L15	S47°42'58"W	96.87'
L16	S66°08'35"W	97.96'
L17	S52°29'59"W	98.63'
L18	S67°09'50"W	83.88'
L19	S37°12'08"W	79.03'
L20	S48°53'36"W	84.51'
L21	S55°13'53"W	97.85'
L22	S65°39'55"W	91.68'
L23	S55°27'03"W	101.05'
L24	S56°31'08"W	100.71'
L25	S49°58'55"W	94.24'
L26	S75°30'12"W	89.66'
L27	S41°15'47"W	152.02'
L28	S14°59'58"W	149.36'
L29	S32°19'38"W	232.85'
L30	S24°26'57"W	100.11'
L31	S20°50'21"W	193.40'
L32	S26°34'31"W	98.27'
L33	S30°27'51"W	180.42'
L34	S21°12'48"W	517.49'
L35	S28°03'09"W	158.38'
L36	S06°59'44"W	151.15'
L37	S13°50'03"W	99.02'
L38	S31°08'21"W	181.60'
L39	S34°35'35"W	212.54'
L40	S62°58'37"W	130.26'
L41	S34°05'27"W	152.06'
L42	S13°21'26"W	160.81'
L43	S56°31'09"W	193.81'
L44	S42°08'03"W	54.99'

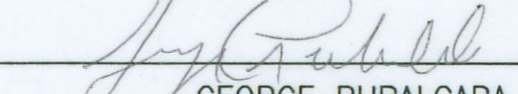
TEXAS GENERAL LAND OFFICE
 Art. 33.136, Natural Resources Code
 Co. CALHOUN Sketch No. 3B
 File Date May 3, 2004 by D.J.H.

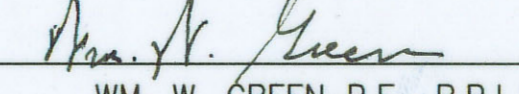
- NOTE:
- PROJECT BM IS USC & GS DISK "TTTT" - ELEVATION 7.00' NGVD (MSL '29)
 - MHHW LINE DETERMINED AT ELEVATION 1.03' BASED ON 3 DAY TIDE MONITORING.
 - COORDINATES ARE BASED ON STATE PLANE, TEXAS SOUTH CENTRAL ZONE NAD '83
 - USC & GS STATION "INDIANOLA 2" HAVING X=2,767,197.21, Y=13,385,361.08 USED FOR HORIZONTAL CONTROL.

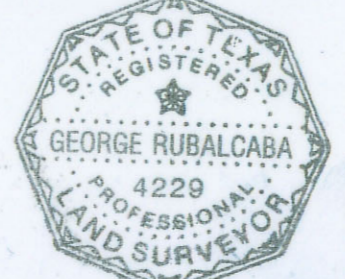




WE, SHINER, MOSELEY AND ASSOCIATES, INC., WITH THE ASSISTANCE OF WM. W. GREEN, A LICENSED STATE LAND SURVEYOR IN THE STATE OF TEXAS, HEREBY STATE THAT THIS DRAWING REPRESENTS THE CONDITIONS THAT EXISTED AT THE TIME OF THE SHORELINE SURVEY CONDUCTED ON JUNE 1999 AND APRIL 2000.

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 ON THE SHORELINE, 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 EROSION LANDWARD AS PROVIDED BY SECTION 33.136, NATURAL RESOURCES CODE.


 GEORGE RUBALCABA
 REGISTERED PROFESSIONAL LAND SURVEYOR


 WM. W. GREEN P.E., R.P.L.S.
 LICENSED STATE LAND SURVEYOR

 SHINER MOSELEY AND ASSOCIATES, INC. ENGINEERS & CONSULTANTS 2820 South Padre Island Drive, Suite 210 Corpus Christi, Texas 78416-1818		ALCOA 0008 2 JUL WHITMIRE WETLAND CREATION AND ENHANCEMENT PROJECT CALHOUN COUNTY TEXAS	
SMA JOB NO.: 90040		SHORELINE SURVEY	
DRN	JLM	DATE	05/00
DES		DATE	
CHK	GR	DATE	05/00
APP		DATE	
SCALE 1" = 400'		SHEET NO.	T3
DWC NO 90040T3_1		REV	1

J:\SMAcad\Projects\1999\90040.dwg 9/26/00 03:53:29 PM CDT