

INDEX TO SHEETS

SHEET NO.	DESCRIPTION
1	TITLE PAGE
2	OVERALL PLAN VIEW
3	PROJECT CONTROL/GAGES TABLE
4	MARSH CREATION AREA TRANSECTS 1 THRU 48 - PLAN VIEW
5 - 7	MARSH CREATION AREA ELEVATIONS PLAN VIEW
8 - 14	MARSH CREATION AREA PROFILE VIEWS
15	CL 1 THRU 5 INCLUSIVE PLAN VIEW
16	CL 3 AND CL4 DETAIL "A"
17 - 21	CL 1 THRU 5 INCLUSIVE PLAN / PROFILE VIEWS
22	EQUIPMENT ACCESS "A" ALIGNMENT PLAN VIEW
23	EQUIPMENT ACCESS "A" SURVEY PLAN VIEW
24 - 48	EQUIPMENT ACCESS "A" CROSS-SECTION VIEWS
49 - 57	EQUIPMENT ACCESS "A" PLAN / PROFILE VIEWS
58	EQUIPMENT ACCESS "B" ALIGNMENT PLAN VIEW
59	EQUIPMENT ACCESS "B" SURVEY PLAN VIEW
60 - 64	EQUIPMENT ACCESS "B" CROSS-SECTION VIEWS
65 - 66	EQUIPMENT ACCESS "B" PLAN / PROFILE VIEWS
67	EQUIPMENT ACCESS "C" ALIGNMENT PLAN VIEW
68	EQUIPMENT ACCESS "C" PLAN / PROFILE VIEW
69	EQUIPMENT ACCESS "D" ALIGNMENT PLAN VIEW
70	EQUIPMENT ACCESS "D" PLAN / PROFILE VIEW
71	HEALTHY MARSHES PARTIAL OVERALL PLAN VIEW
72	HEALTHY MARSH 1 SURVEY PLAN VIEW
73	HEALTHY MARSH 2 SURVEY PLAN VIEW
74	HEALTHY MARSH 3 SURVEY PLAN VIEW

INDEX TO SHEETS

SHEET NO.	DESCRIPTION
75 - 76	MAGNETOMETER SURVEY PARTIAL OVERALL PLAN VIEW
77 - 92	MAGNETOMETER SURVEY PLAN VIEWS
93 - 96	MAGNETOMETER SURVEY MAGNETOMETER ANOMALIES TABLE
97 - 98	PROBED PIPELINES & STRUCTURES PARTIAL OVERALL PLAN VIEW
99 - 107	PROBED PIPELINES & STRUCTURES PLAN VIEWS & DETAILS
108 - 110	PROBED PIPELINES & STRUCTURES PROBED PIPELINES TABLES



THIS MAP REPRESENTS AN ACTUAL FIELD SURVEY MADE UNDER DIRECT SUPERVISION OF THE UNDERSIGNED.

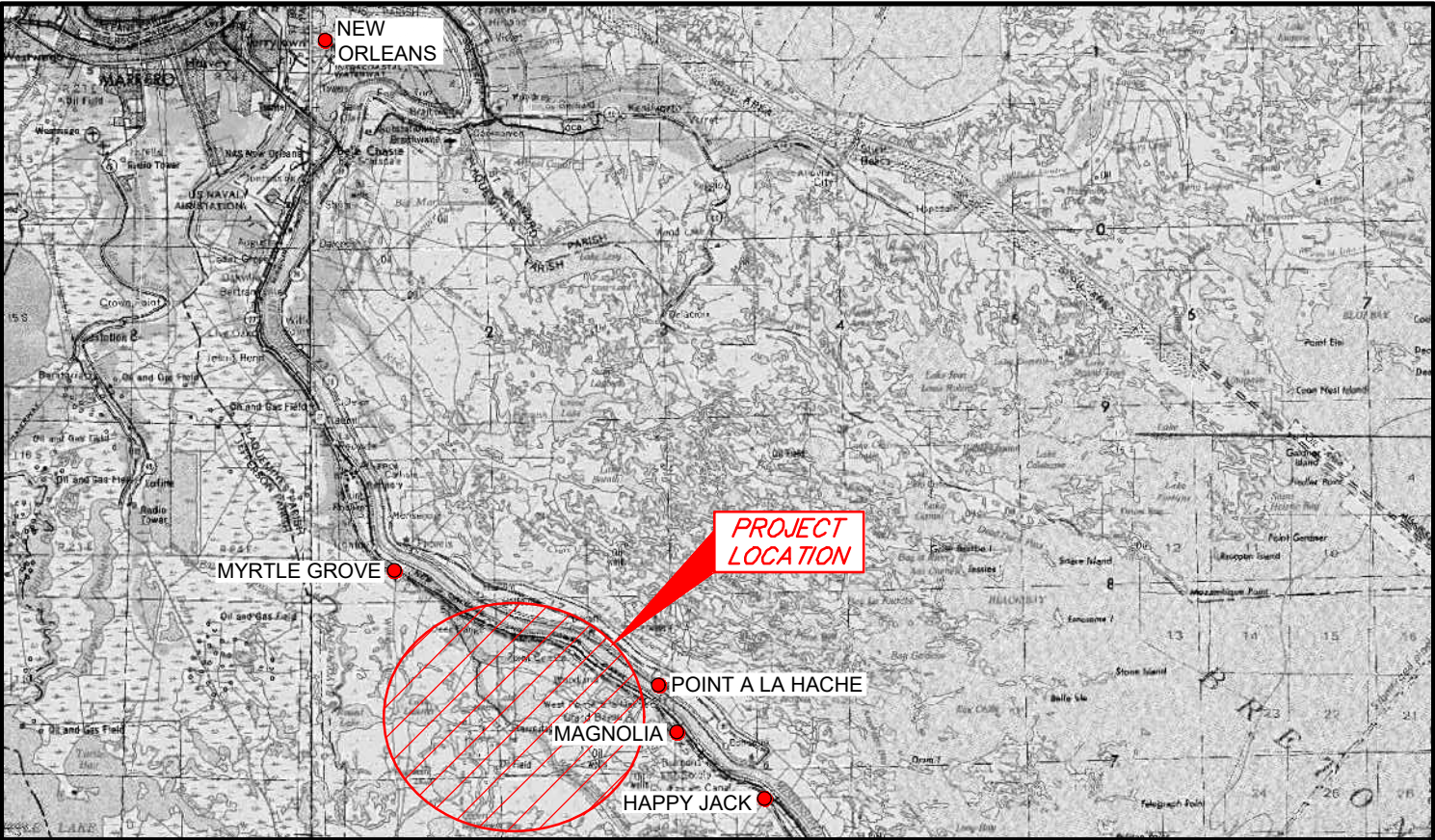
Keith J. Roberts
KEITH J. ROBERTS, PLS # 4780
HYDROTERRA TECHNOLOGIES, LLC
LAND SURVEYING FIRM NO. 614
212 JACOBS RUN
SCOTT, LOUISIANA 70583
(337) 706-8219

STATE OF LOUISIANA
COASTAL PROTECTION AND RESTORATION AUTHORITY

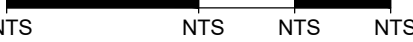
GRANDE BAYOU RIDGE AND
MARSH RESTORATION PROJECT
PROJECT NO.: BA-0217

DESIGN SURVEY

PLAQUEMINES PARISH, LA



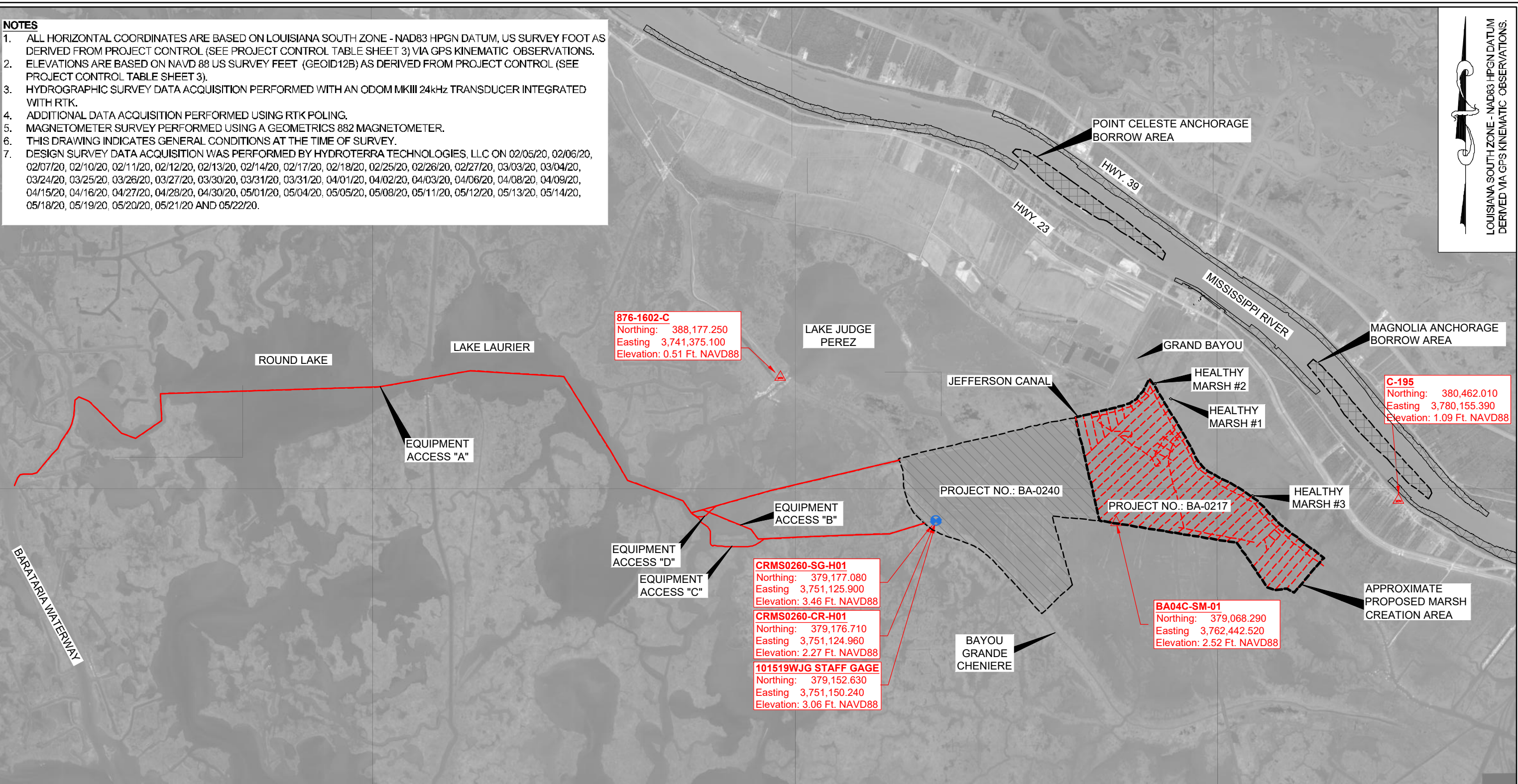
VICINITY MAP (N.T.S.)

REVISED BY:	DATE:	 HYDROTERRA	GRAND BAYOU RIDGE AND MARSH RESTORATION PROJECT PROJECT NO. BA-0217 DESIGN SURVEY TITLE PAGE PLAQUEMINES PARISH, LA.	
PLAN SCALE SCALE: NTS 			PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583	
DATE: 07/09/2020	JOB# 2201006			

NOTES

1. ALL HORIZONTAL COORDINATES ARE BASED ON LOUISIANA SOUTH ZONE - NAD83 HPGN DATUM, US SURVEY FOOT AS DERIVED FROM PROJECT CONTROL (SEE PROJECT CONTROL TABLE SHEET 3) VIA GPS KINEMATIC OBSERVATIONS.
2. ELEVATIONS ARE BASED ON NAVD 88 US SURVEY FEET (GEOID12B) AS DERIVED FROM PROJECT CONTROL (SEE PROJECT CONTROL TABLE SHEET 3).
3. HYDROGRAPHIC SURVEY DATA ACQUISITION PERFORMED WITH AN ODOM MKIII 24kHz TRANSDUCER INTEGRATED WITH RTK.
4. ADDITIONAL DATA ACQUISITION PERFORMED USING RTK POLING.
5. MAGNETOMETER SURVEY PERFORMED USING A GEOMETRICS 882 MAGNETOMETER.
6. THIS DRAWING INDICATES GENERAL CONDITIONS AT THE TIME OF SURVEY.
7. DESIGN SURVEY DATA ACQUISITION WAS PERFORMED BY HYDROTERRA TECHNOLOGIES, LLC ON 02/05/20, 02/06/20, 02/07/20, 02/10/20, 02/11/20, 02/12/20, 02/13/20, 02/14/20, 02/17/20, 02/18/20, 02/25/20, 02/26/20, 02/27/20, 03/03/20, 03/04/20, 03/24/20, 03/25/20, 03/26/20, 03/27/20, 03/30/20, 03/31/20, 03/31/20, 04/01/20, 04/02/20, 04/03/20, 04/06/20, 04/08/20, 04/09/20, 04/15/20, 04/16/20, 04/27/20, 04/28/20, 04/30/20, 05/01/20, 05/04/20, 05/05/20, 05/08/20, 05/11/20, 05/12/20, 05/13/20, 05/14/20, 05/18/20, 05/19/20, 05/20/20, 05/21/20 AND 05/22/20.

LOUISIANA SOUTH ZONE - NAD83 HPGN DATUM
DERIVED VIA GPS KINEMATIC OBSERVATIONS.



LEGEND		REVISED BY: DATE:		 HYDROTERRA		GRAND BAYOU RIDGE AND MARSH RESTORATION PROJECT PROJECT NO. BA-0217 <i>DESIGN SURVEY</i> OVERALL PLAN VIEW PLAQUEMINES PARISH, LA.	
	PROJECT BASELINE/ALIGNMENT						
	MARSH CREATION AREA PROJECT: BA-0217						
	MARSH CREATION AREA PROJECT: BA-0240						
	CONTROL POINT	HORIZONTAL SCALE 1" = 6000' 6000'0'3000'6000'					
	STAFF GAGE						
DATE: 07/09/2020		JOB# 2201006		PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583			
				FILE: Grand Bayou BA-0217_Design_MCA_070920.dwg		SHEET: 2 OF 110	

PROJECT CONTROL TABLE				
MONUMENT ID	X NAD83 LA S 1702, FT.	Y NAD83 LA S 1702, FT.	ELEVATION NAVD88 (GEOID12B) FT.	DESCRIPTION
BA04C-SM-01	3,762,442.52	379,068.29	2.517	NGS STYPE FLOATING SLEEVE MONUMENT 9/16 INCH STAINLESS STEEL ROD
876 1602 C TIDAL	3,741,375.10	388,177.25	0.51	TO REACH THE STATION FROM MYRTLE ROVE GO SOUTHEAST ON STATE HIGHWAY 23 TO MILE MARKER 45.7. TURN RIGHT AND GO EAST FOR 8 KM (4.95 MI) ON LAKE JUDGE PEREZ ROAD TO A FIRE STATION ON THE RIGHT AND THE BENCH MARK ON THE LEFT. MARK IS A STANDARD NOS DISK CRIMPED TO A STEEL ROD DRIVEN 22 METERS (72 FT) INTO THE GROUND AND ENCASED IN A 5-INCH PVC PIPE SURROUNDED BY CONCRETE. 29 MEETERS (95.2 FT) NORTH FROM THE NORTH CORNER OF THE FIRE STATION, 21.8 METERS (71.4 FT) EAST FROM A POWER POLE AND 0.5 METERS (1.8 FT) SOUTHWEST FROM A WITNESS POST.
C 195	3,780,155.39	380,462.01	1.09	THE STATION IS ON THE PROTECTED SIDE OF THE MISSISSIPPI RIVER LEVEE. FROM THE INTERSECTION OF HWY 23 AND POINTE LA HACHE FERRY RD GO APPROXIMATELY 0.9 MILES SOUTH EAST TO THE INTERSECTION OF HWY 23 AND DIAMOND RD ON THE LEFT, TURN ONTO DIMOND RD AND PROCEED APPROXIMATELY 2.2 MILES TO THE MARK ON THE RIGHT. MARK IS 26 FEET SOUTHWEST OF THE CENTER LINE OF DIAMOND RD, 27 FEET NORTH OF A POWER POLE AND 93 FEET NORTHWEST OF THE CENTER LINE OF NORRIS LN. MARK IS A BRONZE DISK SET IN THE TOP OF A CONCRETE POST WHICH PROJECTS 2 INCHES.

PROJECT GAGES					
MONUMENT ID	X NAD83 LA S 1702, FT.	Y NAD83 LA S 1702, FT.	ELEVATION NAVD88 (GEOID12B) FT. TOP OF 4X4 POST	ELEVATION NAVD88 (GEOID12B) FT. NAIL AT POST	DESCRIPTION
CRMS0260-CR-H01	3,751,124.96	379,176.71	7.3	2.27	THE GAGE IS A CONTINUOUS RECORDER TYPE GAGE: YSI 6920 SENSOR WITHIN A PVC PIPE ATTACHED TO A 4X4 TREATED POST WITH DATA COLLECTOR BOX AND REFERENCE NAIL OR SCREW DRIVEN HORIZONTALLY
CRMS0260-SG-H01	3,751,125.90	379,177.08	6.49	3.46	THE GAGE IS A CERAMIC COATED STAFF GAGE FACE PLATE ATTACHED TO A 4X4 TREATED WOOD POST WITH A REFERENCE NAIL DRIVEN HORIZONTALLY.
101519WJG1472 STAFF GAGE	3,751,150.24	379,152.63	5.058	3.057	STAFF GAGE ESTABLISHED BY HYDROTERRA TECHNOLOGIES, LLC ON 10/15/2019 INSTALLATION AND SURVEYING TECHNIQUES USED FOR THIS STAFF GAGE FOLLOW THE APPLICABLE GUIDELINES SET FORTH IN A CONTRACTOR'S GUIDE TO MINIMUM STANDARDS FOR CONTRACTORS PERFORMING GPS SURVEYS AND DETERMINING GPS DERIVED ORTHOMETRIC HEIGHTS WITH THE LOUISIANA COASTAL ZONE, 2017. TOP OF WATER ON 10/15/2019 AT 3:11 P.M. WAS 1.498 FT. NAVD88 (GEOID 12B) GAGE ZERO IS AT AN ELEVATION OF 0.0 FT. NAVD88 (REFERENCED TO GEOID 12B)



REVISED BY:		DATE:		  	GRAND BAYOU RIDGE AND MARSH RESTORATION PROJECT PROJECT NO. BA-0217 DESIGN SURVEY PROJECT CONTROL/GAGES PLAQUEMINES PARISH, LA.
				PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583	
DATE: 07/09/2020		JOB# 2201006		FILE: Grand Bayou BA-0217_Design_MCA_070920.dwg	SHEET: 3 OF 110

LOUISIANA SOUTH ZONE - NAD83 HPGN DATUM
DERIVED VIA GPS KINEMATIC OBSERVATIONS.

JEFFERSON CANAL

EQUIPMENT
ACCESS "A"

EQUIPMENT
ACCESS "B"

TRANSECTS 1 THRU 48 COORDINATES TABLE		
NAME	NORTHING	EASTING
T1A	385,657.64	3,759,885.79
T1B	385,083.52	3,760,020.56
T2A	385,776.31	3,760,371.52
T2B	383,581.54	3,760,886.74
T3A	385,894.97	3,760,857.26
T3B	383,979.26	3,761,306.97
T4A	386,013.64	3,761,342.99
T4B	384,376.98	3,761,727.19
T5A	386,132.30	3,761,828.73
T5B	384,774.70	3,762,147.42
T6A	386,250.97	3,762,314.46
T6B	385,172.41	3,762,567.65
T7A	386,369.63	3,762,800.20
T7B	385,570.13	3,762,987.88
T8A	386,530.63	3,763,276.00
T8B	386,076.20	3,763,522.60
T9A	386,816.33	3,763,722.52
T9B	386,534.98	3,764,007.33
T10A	387,302.78	3,764,121.92
T10B	386,993.84	3,764,492.17
T11A	383,183.83	3,760,466.51
T11B	387,434.33	3,764,957.59
T12A	382,620.54	3,760,598.74
T12B	386,996.98	3,765,222.88
T13A	382,057.26	3,760,730.97
T13B	386,550.32	3,765,478.33
T14A	381,493.98	3,760,863.20
T14B	386,093.00	3,765,722.53
T15A	380,930.70	3,760,995.43
T15B	385,635.69	3,765,966.72
T16A	380,367.42	3,761,127.66
T16B	385,197.36	3,766,230.97
T17A	379,804.13	3,761,259.88
T17B	384,784.06	3,766,521.67
T18A	379,184.88	3,761,332.97
T18B	384,370.75	3,766,812.37
T19A	379,104.39	3,761,975.32
T19B	383,927.51	3,767,071.43
T20A	379,023.90	3,762,617.67
T20B	383,446.06	3,767,290.13
T21A	378,943.41	3,763,260.02
T21B	382,976.79	3,767,521.69
T22A	378,862.92	3,763,902.37
T22B	382,594.07	3,767,844.69
T23A	378,766.48	3,764,527.86
T23B	382,250.14	3,768,208.69
T24A	378,661.79	3,765,144.63
T24B	381,953.13	3,768,622.27
T25A	378,552.23	3,765,756.27

TRANSECTS 1 THRU 48 COORDINATES TABLE		
NAME	NORTHING	EASTING
T25B	381,720.22	3,769,103.57
T26A	378,440.90	3,766,366.03
T26B	381,521.98	3,769,621.50
T27A	378,329.56	3,766,975.79
T27B	381,279.28	3,770,092.46
T28A	378,218.23	3,767,585.54
T28B	380,988.56	3,770,512.68
T29A	378,106.89	3,768,195.30
T29B	380,697.85	3,770,932.90
T30A	377,996.40	3,768,805.94
T30B	380,390.54	3,771,335.59
T31A	377,885.97	3,769,416.66
T31B	380,011.50	3,771,662.49
T32A	377,775.54	3,770,027.37
T32B	379,632.46	3,771,989.39
T33A	377,665.11	3,770,638.08
T33B	379,287.48	3,772,352.28
T34A	377,554.68	3,771,248.80
T34B	378,953.51	3,772,726.80
T35A	376,314.67	3,771,069.00
T35B	378,662.59	3,773,086.11
T36A	375,878.73	3,771,353.66
T36B	378,367.85	3,773,492.07
T37A	375,442.78	3,771,638.31
T37B	378,038.23	3,773,868.07
T38A	375,006.84	3,771,922.97
T38B	377,708.69	3,774,244.14
T39A	374,824.24	3,772,425.28
T39B	377,379.65	3,774,620.64
T40A	374,902.41	3,773,151.61
T40B	377,115.60	3,775,052.96
T41A	374,662.99	3,773,605.10
T41B	376,834.69	3,775,470.81
T42A	384,822.99	3,765,817.64
T42B	384,214.76	3,766,340.89
T43A	384,440.13	3,765,388.82
T43B	383,859.07	3,766,143.83
T44A	383,997.07	3,765,060.59
T44B	383,481.93	3,765,973.67
T45A	383,561.71	3,764,814.72
T45B	382,959.01	3,765,882.97
T46A	378,616.57	3,772,370.79
T46B	378,298.83	3,772,724.71
T47A	378,271.74	3,772,006.44
T47B	377,922.57	3,772,395.37
T48A	378,024.37	3,771,745.07
T48B	377,390.52	3,771,882.63

BAYOU GRANDE CHENIERE

PROJECT NO.: BA-0240

PROJECT NO.: BA-0217

LEGEND

- PROJECT BASELINE/ALIGNMENT
- TRANSECTS (BA-0217)
- MARSH CREATION AREA
PROJECT: BA-0217
- MARSH CREATION AREA
PROJECT: BA-0240

REVISED BY:

DATE:

HORIZONTAL SCALE
1" = 2000'

2000' 0' 1000' 2000'

DATE: 07/09/2020

JOB# 2201006



HYDROTERRA



PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Grand Bayou BA-0217_Design_MCA_070920.dwg

MARSH CREATION AREA

GRAND BAYOU RIDGE AND
MARSH RESTORATION PROJECT
PROJECT NO. BA-0217

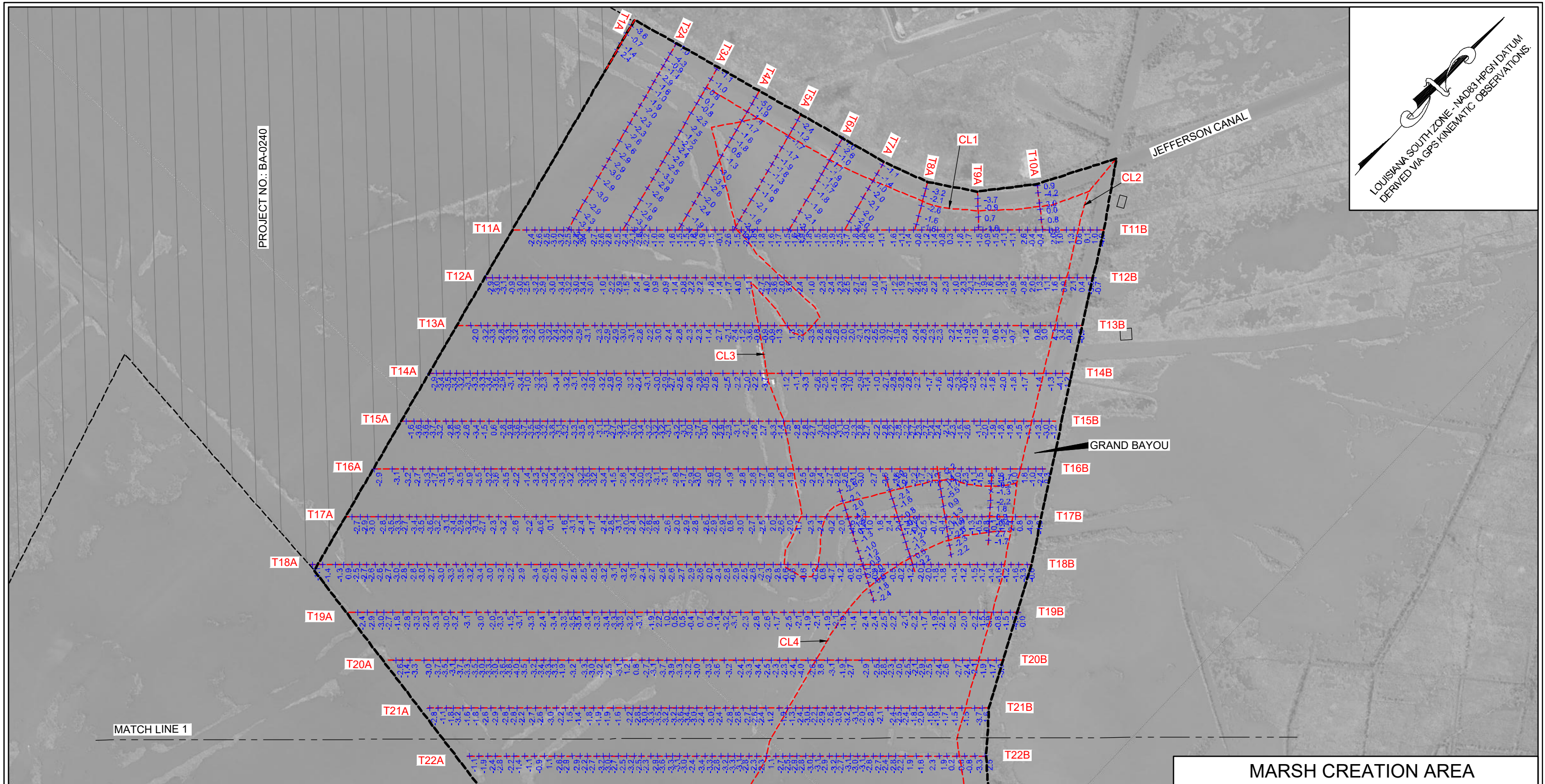
DESIGN SURVEY

TRANSECTS 1 THRU 48 - PLAN VIEW
PLAQUEMINES PARISH, LA.

SHEET: 4 OF 110



LOUISIANA SOUTH ZONE - NAD83 HPGN DATUM
DERIVED VIA GPS KINEMATIC OBSERVATIONS.



LEGEND	
	PROJECT BASELINE/ALIGNMENT
	ELEVATIONS IN FEET NAVD88
	TRANSECTS (BA-0217)
	MARSH CREATION AREA PROJECT: BA-0217
	MARSH CREATION AREA PROJECT: BA-0240

REVISED BY:	DATE:
HORIZONTAL SCALE 1" = 1000'	
DATE: 07/09/2020	JOB# 2201006

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FILE: Grand Bayou BA-0217_Design_MCA_070920.dwg

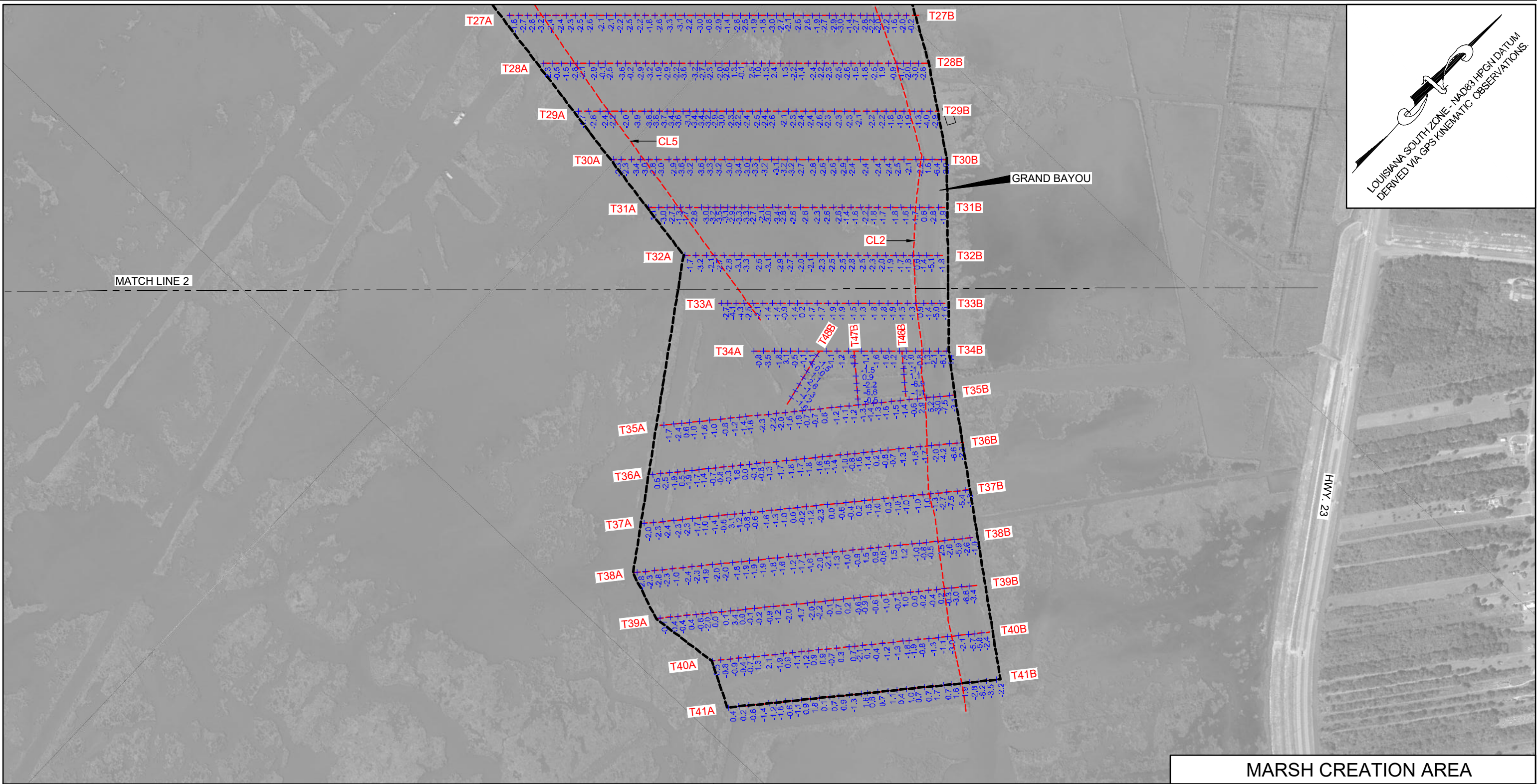
MARSH CREATION AREA

GRAND BAYOU RIDGE AND
MARSH RESTORATION PROJECT
PROJECT NO. BA-0217

DESIGN SURVEY

ELEVATIONS PLAN VIEW
PLAQUEMINES PARISH, LA.

SHEET: 5 OF 110



LEGEND		REVISED BY:	DATE:
—	PROJECT BASELINE/ALIGNMENT		
+1.5	ELEVATIONS IN FEET NAVD88		
---	TRANSECTS (BA-0217)		
	MARSH CREATION AREA PROJECT: BA-0217		
	MARSH CREATION AREA PROJECT: BA-0240		
HORIZONTAL SCALE 1" = 1000' 1000' 0' 500' 1000'			
DATE: 07/09/2020		JOB# 2201006	



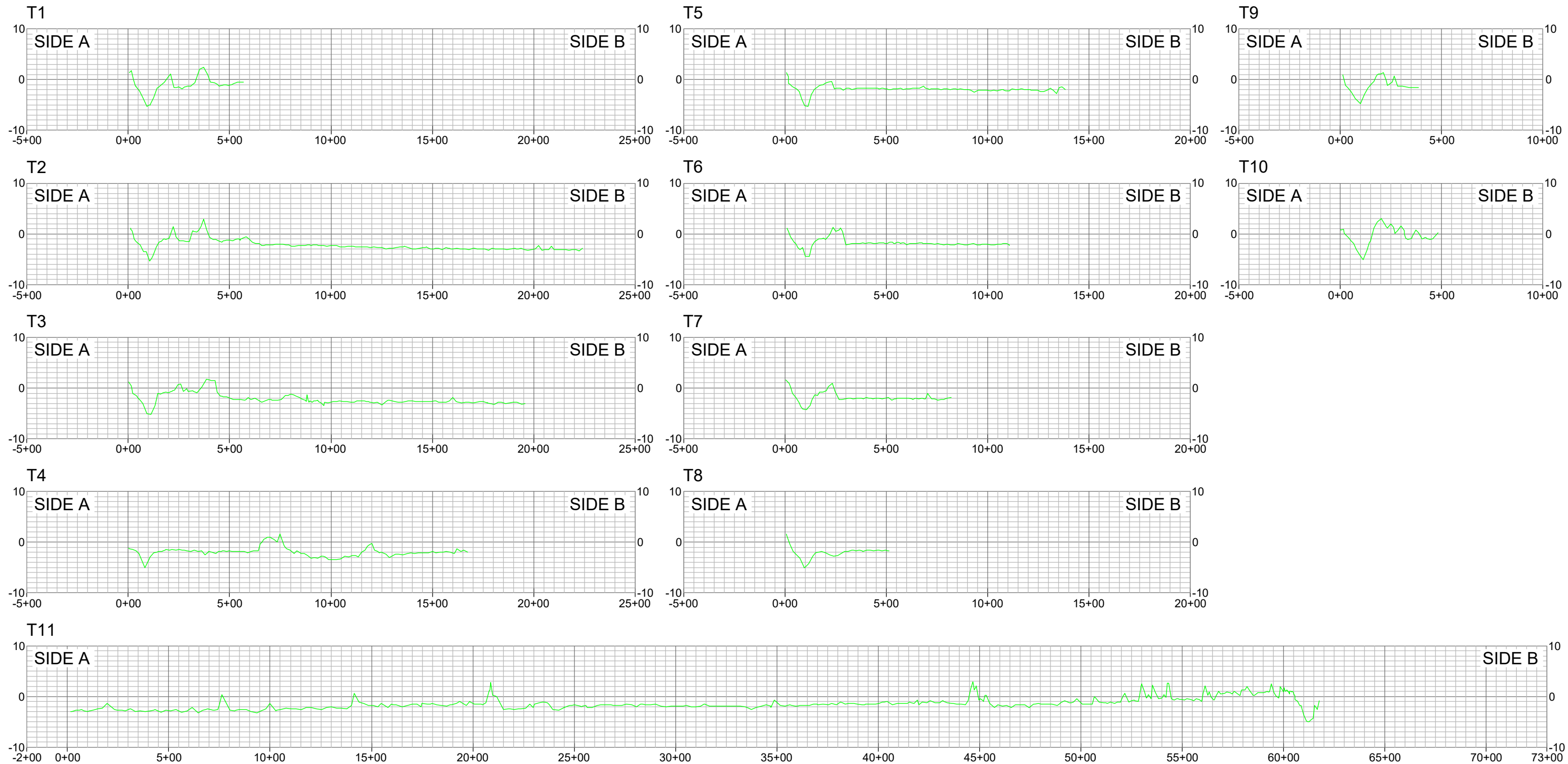
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FILE: Grand Bayou BA-0217_Design_MCA_070920.dwg		SHEET: 7 OF 110

MARSH CREATION AREA

GRAND BAYOU RIDGE AND
MARSH RESTORATION PROJECT
PROJECT NO. BA-0217

DESIGN SURVEY

ELEVATIONS PLAN VIEW
PLAQUEMINES PARISH, LA.



LEGEND—PROFILE

— DESIGN SURVEY

REVISED BY: DATE:

HORIZONTAL SCALE: 1" = 500'

500' 0' 250' 500'

VERTICAL SCALE: 1" = 20'

20' 0' 10' 20'

DATE: 07/09/2020 JOB# 2201006

 **HYDROTERRA**



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FILE: Grand Bayou BA-0217_Design_MCA_070920.dwg

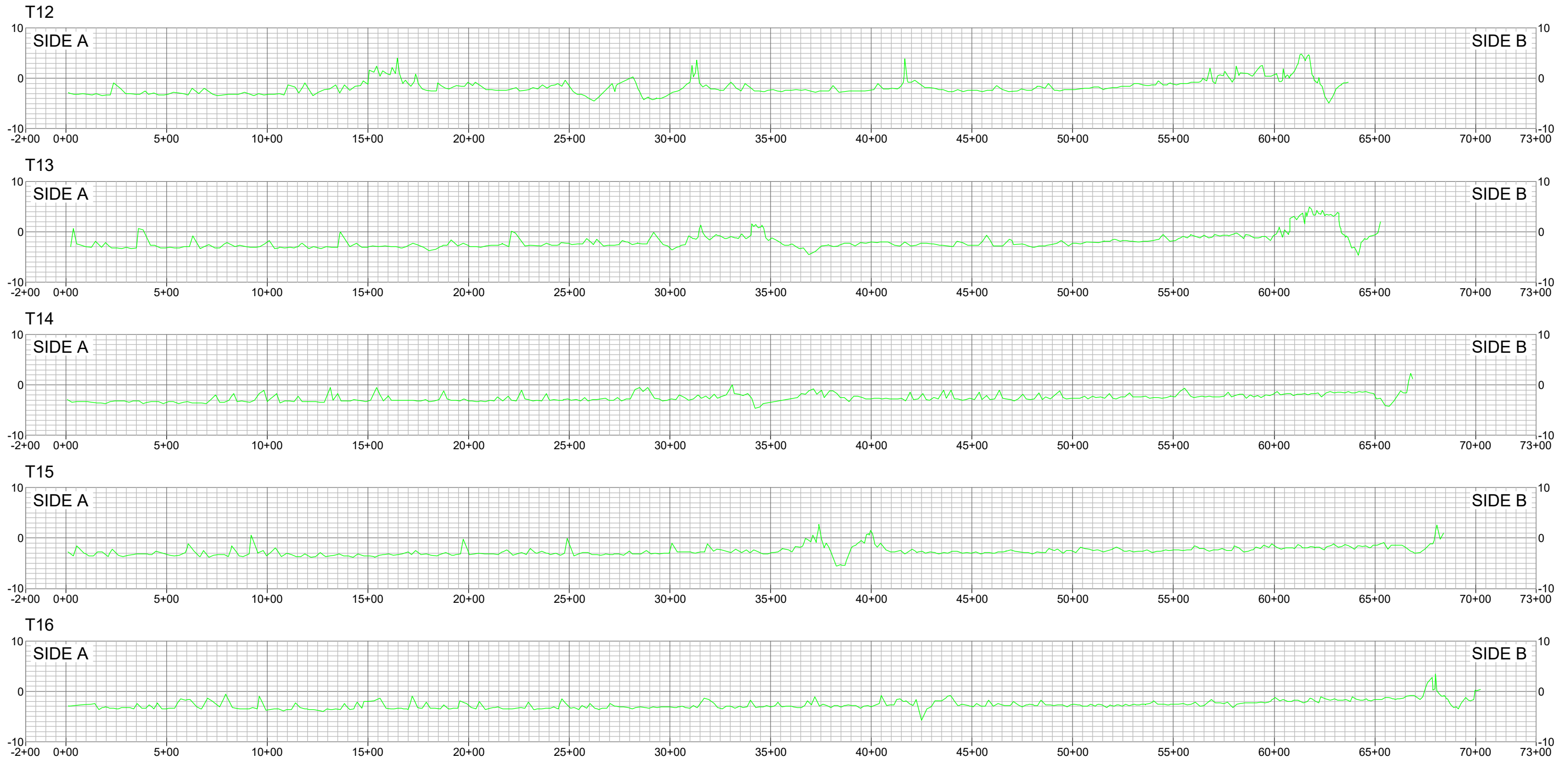
MARSH CREATION AREA

GRAND BAYOU RIDGE AND MARSH RESTORATION PROJECT
PROJECT NO. BA-0217

DESIGN SURVEY

PROFILE VIEWS
PLAQUEMINES PARISH, LA.

SHEET: 8 OF 110



LEGEND—PROFILE

— DESIGN SURVEY

REVISED BY: DATE:

HORIZONTAL SCALE: 1" = 500'

500' 0' 250' 500'

VERTICAL SCALE: 1" = 20'

20' 0' 10' 20'

DATE: 07/09/2020

JOB# 2201006



HYDROTERRA



PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Grand Bayou BA-0217_Design_MCA_070920.dwg

MARSH CREATION AREA

GRAND BAYOU RIDGE AND
MARSH RESTORATION PROJECT
PROJECT NO. BA-0217

DESIGN SURVEY

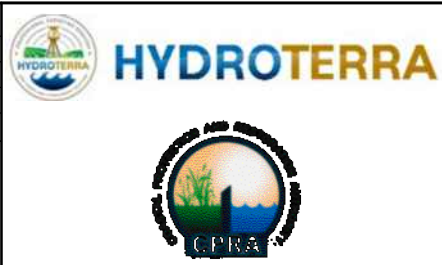
PROFILE VIEWS
PLAQUEMINES PARISH, LA.

SHEET: 9 OF 110



LEGEND—PROFILE	
	DESIGN SURVEY

REVISED BY:	DATE:
HORIZONTAL SCALE: 1" = 500'	
500'	0' 250' 500'
VERTICAL SCALE: 1" = 20'	
20'	0' 10' 20'
DATE: 07/09/2020	JOB# 2201006



MARSH CREATION AREA	
GRAND BAYOU RIDGE AND MARSH RESTORATION PROJECT PROJECT NO. BA-0217	
DESIGN SURVEY PROFILE VIEWS PLAQUEMINES PARISH, LA.	
PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583	
FILE: Grand Bayou BA-0217_Design_MCA_070920.dwg	SHEET: 10 OF 110



LEGEND—PROFILE

— DESIGN SURVEY

REVISED BY:

DATE:

HORIZONTAL SCALE: 1" = 500'

500' 0' 250' 500'

VERTICAL SCALE: 1" = 20'

20' 0' 10' 20'

DATE: 07/09/2020

JOB# 2201006



HYDROTERRA



PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Grand Bayou BA-0217_Design_MCA_070920.dwg

MARSH CREATION AREA

GRAND BAYOU RIDGE AND
MARSH RESTORATION PROJECT
PROJECT NO. BA-0217

DESIGN SURVEY

PROFILE VIEWS
PLAQUEMINES PARISH, LA.

SHEET: 11 OF 110



LEGEND—PROFILE

— DESIGN SURVEY

REVISED BY: DATE:

HORIZONTAL SCALE: 1" = 500'

500' 0' 250' 500'

VERTICAL SCALE: 1" = 20'

20' 0' 10' 20'

DATE: 07/09/2020 JOB# 2201006

 **HYDROTERRA**



MARSH CREATION AREA

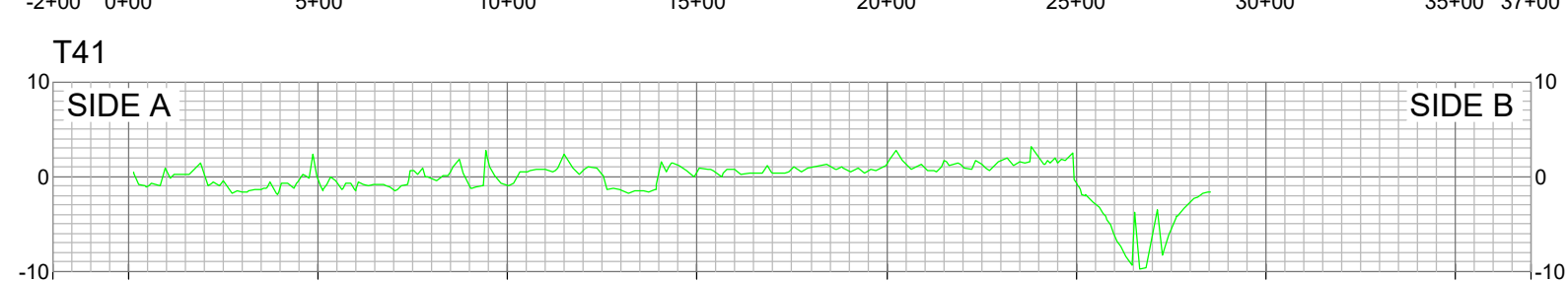
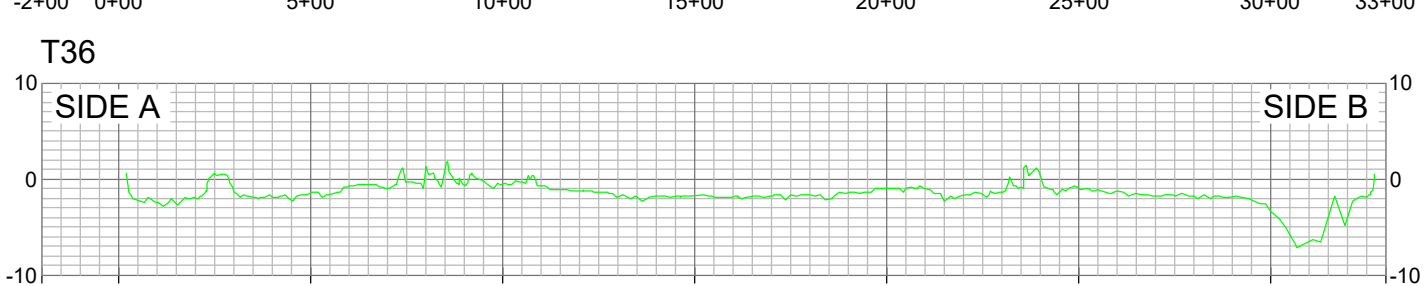
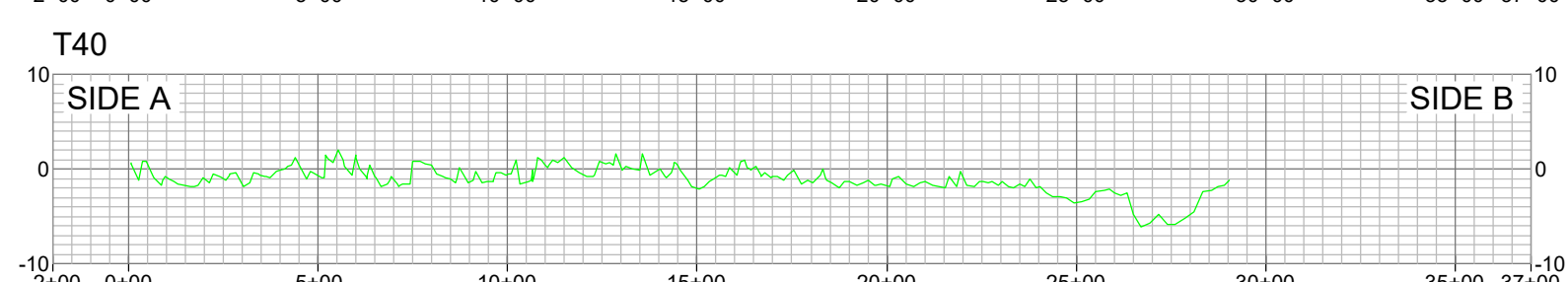
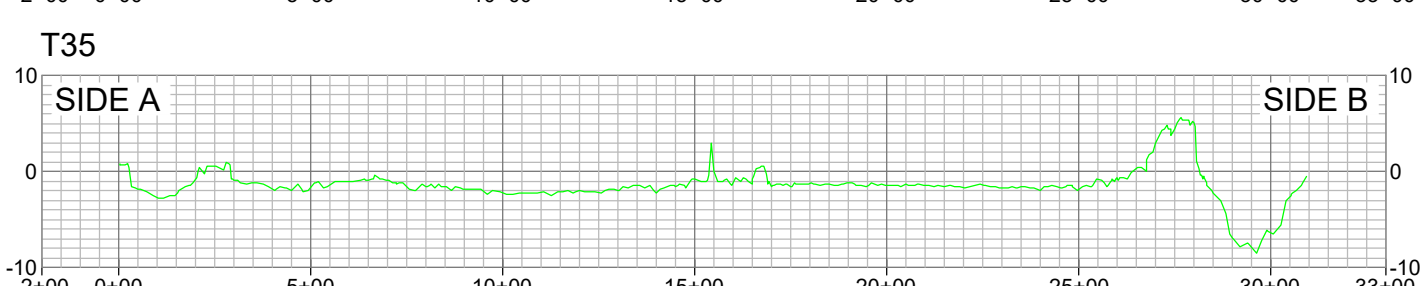
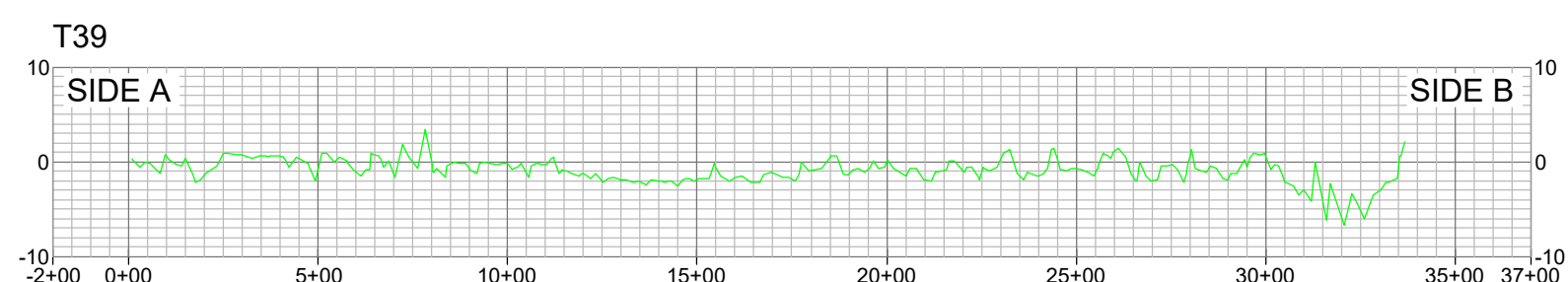
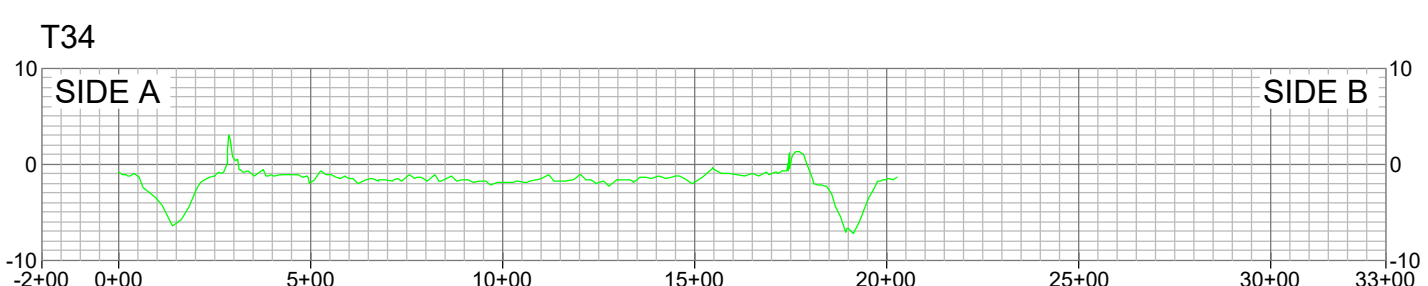
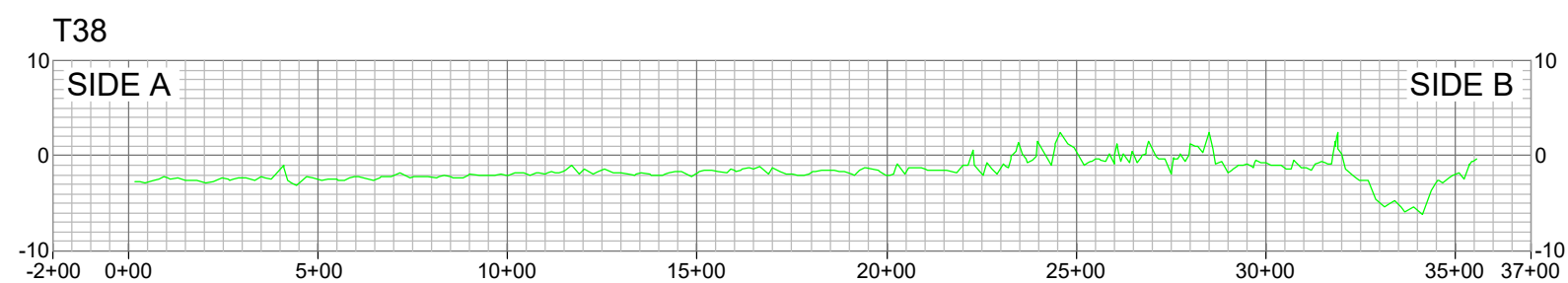
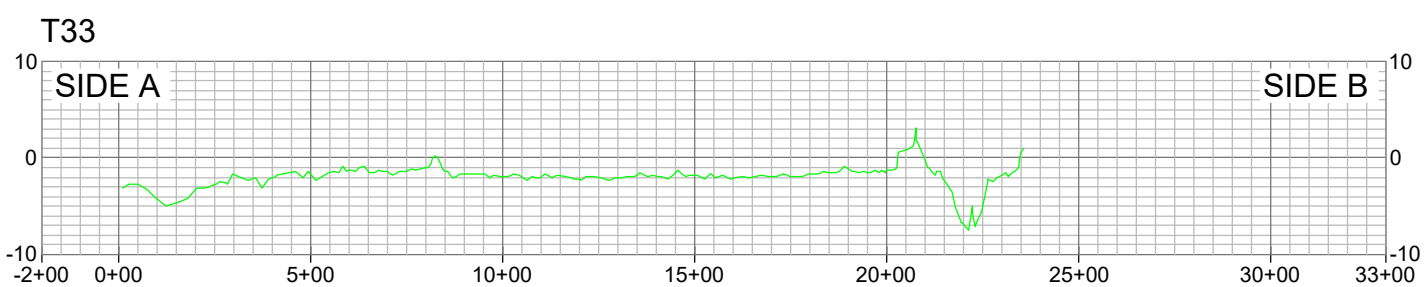
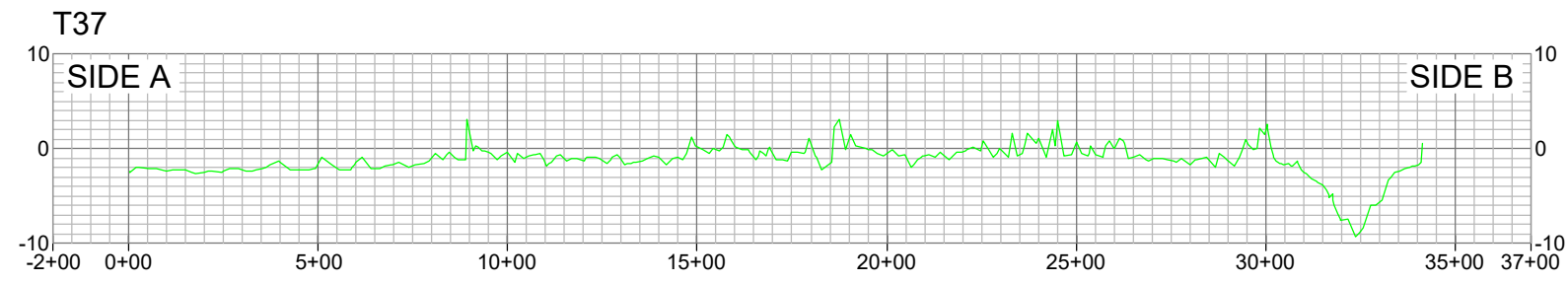
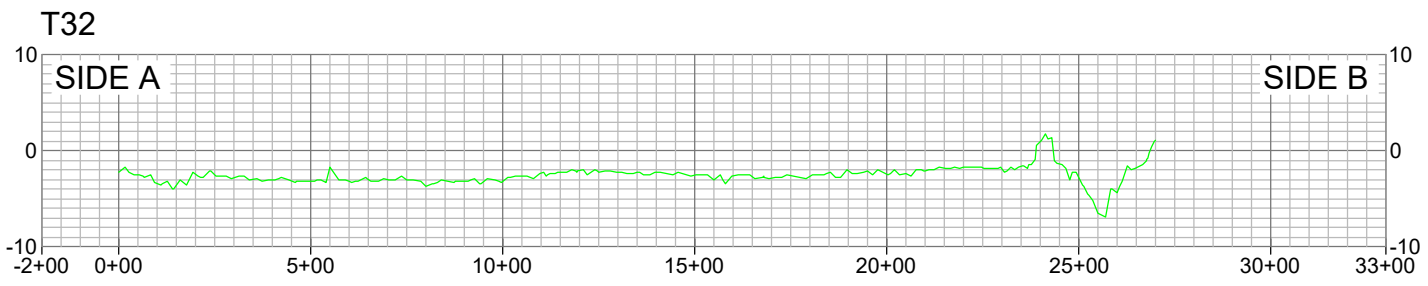
GRAND BAYOU RIDGE AND MARSH RESTORATION PROJECT
PROJECT NO. BA-0217

DESIGN SURVEY

PROFILE VIEWS
PLAQUEMINES PARISH, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Grand Bayou BA-0217_Design_MCA_070920.dwg SHEET: 12 OF 110

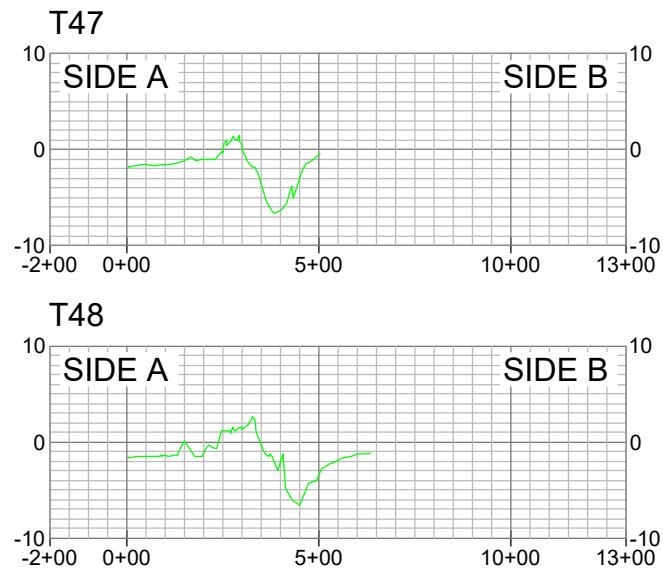
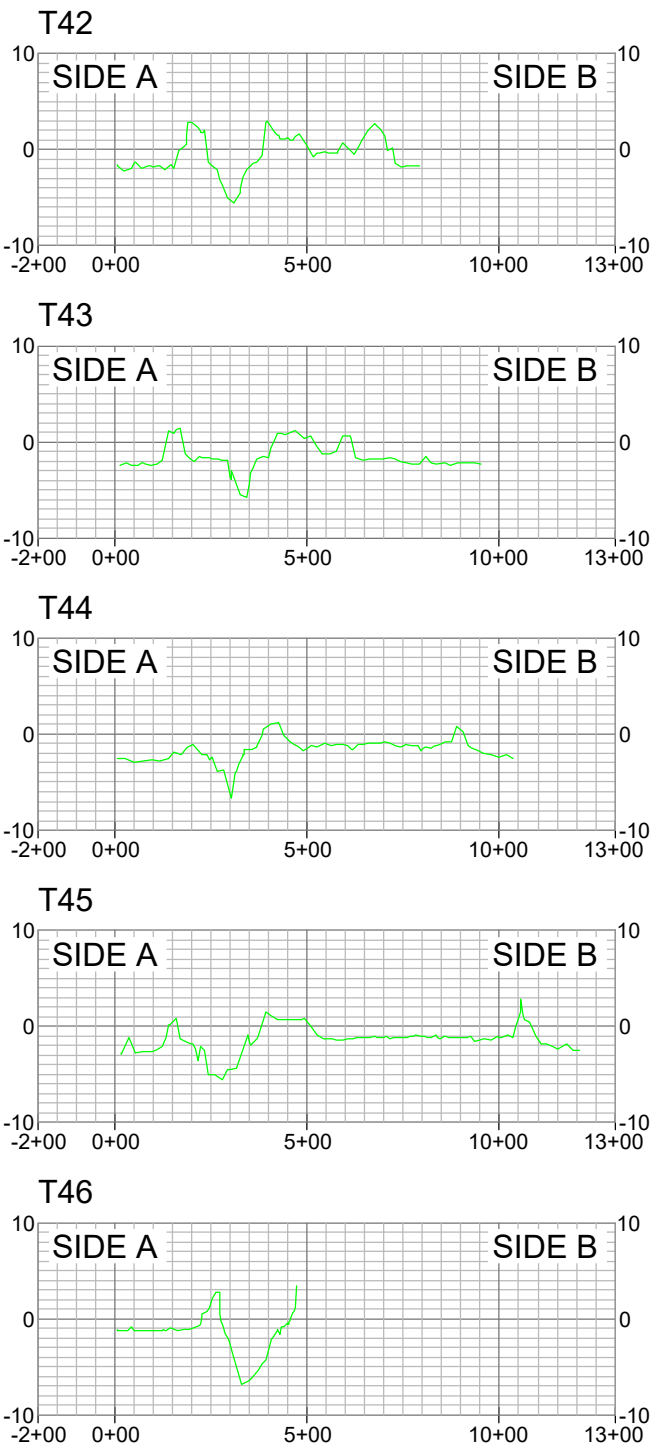


LEGEND—PROFILE	
	DESIGN SURVEY

REVISED BY:	DATE:
HORIZONTAL SCALE: 1" = 500'	
VERTICAL SCALE: 1" = 20'	
DATE: 07/09/2020	JOB# 2201006



MARSH CREATION AREA	
GRAND BAYOU RIDGE AND MARSH RESTORATION PROJECT PROJECT NO. BA-0217	
DESIGN SURVEY PROFILE VIEWS PLAQUEMINES PARISH, LA.	
PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583	
FILE: Grand Bayou BA-0217_Design_MCA_070920.dwg	SHEET: 13 OF 110



LEGEND—PROFILE

— DESIGN SURVEY

REVISED BY:

DATE:

HORIZONTAL SCALE: 1" = 500'

500' 0' 250' 500'

VERTICAL SCALE: 1" = 20'

20' 0' 10' 20'

DATE: 07/09/2020

JOB# 2201006



HYDROTERRA



PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Grand Bayou BA-0217_Design_MCA_070920.dwg

MARSH CREATION AREA

GRAND BAYOU RIDGE AND
MARSH RESTORATION PROJECT
PROJECT NO. BA-0217

DESIGN SURVEY

PROFILE VIEWS
PLAQUEMINES PARISH, LA.

SHEET: 14 OF 110

LOUISIANA SOUTH ZONE - NAD83 HPGN DATUM
DERIVED VIA GPS KINEMATIC OBSERVATIONS.

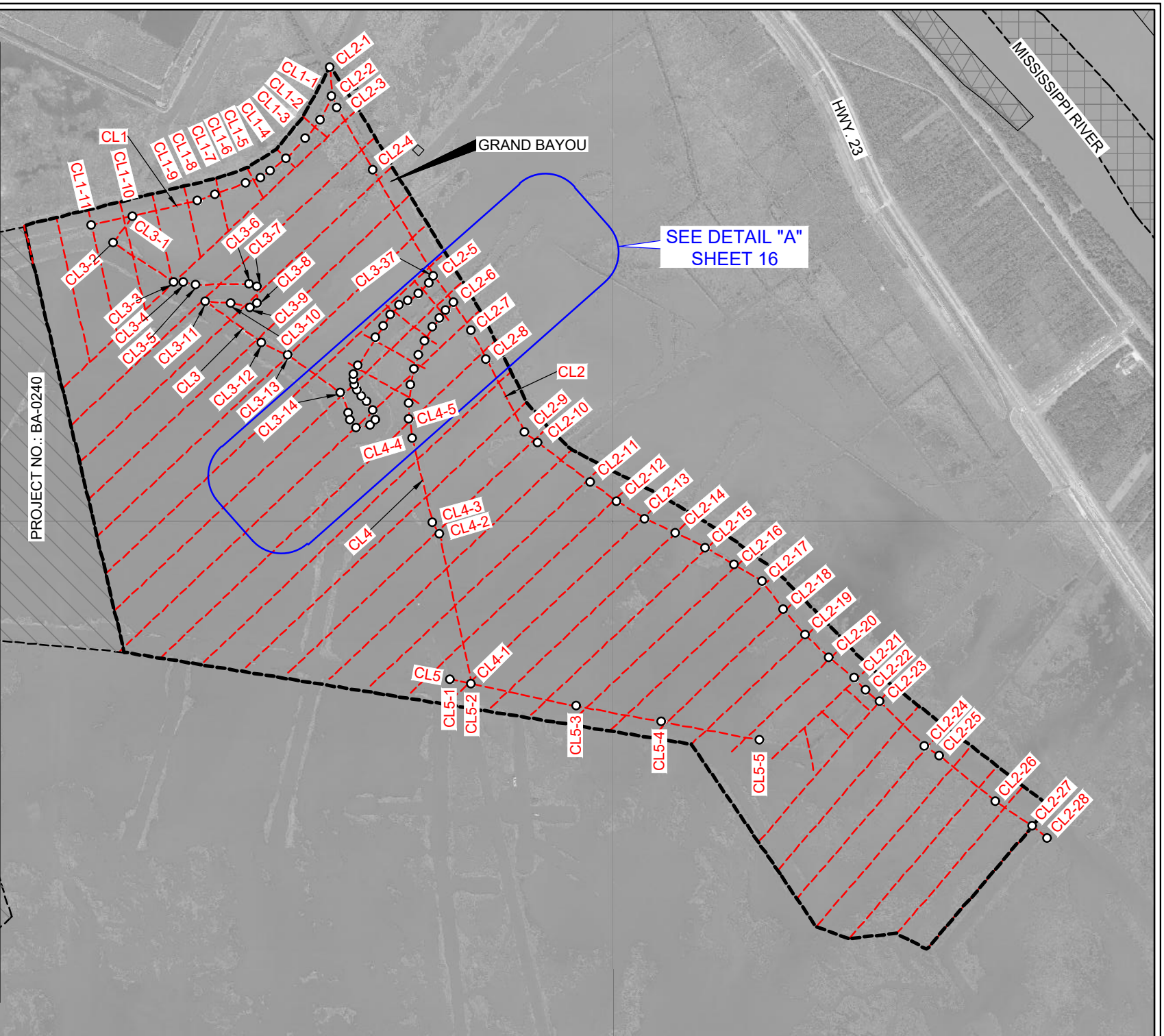
EQUIPMENT ACCESS "A"

JEFFERSON CANAL

BAYOU GRANDE CHENIERE

EQUIPMENT ACCESS "B"

CENTERLINES 1 THRU 5 COORDINATES TABLE			CENTERLINES 1 THRU 5 COORDINATES TABLE		
NAME	NORTHING	EASTING	NAME	NORTHING	EASTING
CL1-1	387,622.40	3,764,568.44	CL3-10	384,479.30	3,763,025.94
CL1-2	387,265.09	3,764,394.62	CL3-11	384,500.19	3,762,649.70
CL1-3	386,981.41	3,764,166.21	CL3-12	383,872.47	3,763,498.95
CL1-4	386,675.65	3,763,864.93	CL3-13	383,681.84	3,763,902.29
CL1-5	386,485.23	3,763,628.68	CL3-14	383,110.27	3,764,702.76
CL1-6	386,387.12	3,763,480.02	CL3-15	382,807.94	3,764,819.08
CL1-7	386,301.82	3,763,252.94	CL3-16	382,707.17	3,764,842.34
CL1-8	386,128.90	3,762,789.06	CL3-17	382,583.13	3,764,943.15
CL1-9	386,034.83	3,762,528.06	CL3-18	382,621.89	3,765,147.36
CL1-10	385,797.21	3,761,533.10	CL3-19	382,704.58	3,765,230.08
CL1-11	385,661.47	3,760,912.07	CL3-20	382,773.09	3,765,216.28
CL2-1	388,067.61	3,764,540.58	CL3-21	382,842.30	3,765,192.67
CL2-2	387,622.40	3,764,568.44	CL3-22	382,974.44	3,765,095.11
CL2-3	387,448.25	3,764,648.60	CL3-23	383,059.38	3,765,021.15
CL2-4	386,505.44	3,765,189.27	CL3-24	383,153.77	3,764,955.05
CL2-5	384,888.66	3,766,116.42	CL3-25	383,227.70	3,764,917.29
CL2-6	384,482.91	3,766,411.53	CL3-26	383,311.07	3,764,893.68
CL2-7	384,061.95	3,766,682.55	CL3-27	383,389.73	3,764,896.83
CL2-8	383,619.11	3,766,915.41	CL3-28	383,454.22	3,764,923.58
CL2-9	382,510.49	3,767,498.35	CL3-29	383,526.58	3,764,967.64
CL2-10	382,357.36	3,767,698.12	CL3-30	383,948.57	3,765,233.59
CL2-11	381,753.20	3,768,494.98	CL3-31	384,124.92	3,765,354.76
CL2-12	381,462.69	3,768,902.18	CL3-32	384,302.68	3,765,461.77
CL2-13	381,199.98	3,769,330.43	CL3-33	384,447.40	3,765,597.10
CL2-14	380,986.72	3,769,796.14	CL3-34	384,508.75	3,765,727.71
CL2-15	380,759.45	3,770,251.23	CL3-35	384,615.72	3,765,878.78
CL2-16	380,501.17	3,770,682.84	CL3-36	384,775.59	3,766,039.44
CL2-17	380,242.13	3,771,113.88	CL3-37	384,888.66	3,766,116.42
CL2-18	379,825.75	3,771,425.73	CL4-1	378,691.11	3,766,686.91
CL2-19	379,437.11	3,771,758.59	CL4-2	380,969.51	3,766,202.88
CL2-20	379,091.05	3,772,123.72	CL4-3	381,147.03	3,766,092.87
CL2-21	378,774.03	3,772,510.83	CL4-4	382,415.47	3,765,787.28
CL2-22	378,587.87	3,772,678.39	CL4-5	382,712.35	3,765,742.23
CL2-23	378,417.38	3,772,897.36	CL4-6	382,948.19	3,765,732.33
CL2-24	377,736.74	3,773,584.49	CL4-7	383,231.09	3,765,763.77
CL2-25	377,596.43	3,773,807.99	CL4-8	383,472.04	3,765,818.56
CL2-26	376,904.99	3,774,655.93	CL4-9	383,687.40	3,765,886.17
CL2-27	376,526.17	3,775,215.94	CL4-10	383,901.17	3,765,972.66
CL2-28	376,345.66	3,775,442.03	CL4-11	384,118.10	3,766,100.03
CL3-1	385,797.21	3,761,533.10	CL4-12	384,243.07	3,766,201.52
CL3-2	385,392.90	3,761,242.03	CL4-13	384,367.62	3,766,301.51
CL3-3	384,796.66	3,762,164.80	CL4-14	384,471.94	3,766,418.59
CL3-4	384,794.28	3,762,315.11	CL5-1	378,758.86	3,766,365.52
CL3-5	384,755.45	3,762,499.31	CL5-2	378,691.11	3,766,686.91
CL3-6	384,767.78	3,763,317.20	CL5-3	378,355.67	3,768,278.09
CL3-7	384,728.43	3,763,431.13	CL5-4	378,116.52	3,769,583.48
CL3-8	384,471.26	3,763,432.73	CL5-5	377,836.48	3,771,076.17
CL3-9	384,410.18	3,763,321.79			



LEGEND

- PROJECT BASELINE/ALIGNMENT
- TRANSECTS / PROFILES (BA-0217)
- MARSH CREATION AREA PROJECT: BA-0217
- MARSH CREATION AREA PROJECT: BA-0240

REVISED BY: DATE:

HORIZONTAL SCALE
1" = 2000'

2000' 0' 1000' 2000'

DATE: 07/09/2020 JOB# 2201006

HYDROTERRA

CPRA

MARSH CREATION AREA

GRAND BAYOU RIDGE AND MARSH RESTORATION PROJECT
PROJECT NO. BA-0217

DESIGN SURVEY

CL1 THRU CL5 INCLUSIVE- PLAN VIEW
PLAQUEMINES PARISH, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Grand Bayou BA-0217_Design_MCA_070920.dwg

SHEET: 15 OF 110



CENTERLINES COORDINATES TABLE		
NAME	NORTHING	EASTING
CL2-5	384,888.66	3,766,116.42
CL2-6	384,482.91	3,766,411.53
CL2-7	384,061.95	3,766,682.55
CL2-8	383,619.11	3,766,915.41
CL3-14	383,110.27	3,764,702.76
CL3-15	382,807.94	3,764,819.08
CL3-16	382,707.17	3,764,842.34
CL3-17	382,583.13	3,764,943.15
CL3-18	382,621.89	3,765,147.36
CL3-19	382,704.58	3,765,230.08
CL3-20	382,773.09	3,765,216.28
CL3-21	382,842.30	3,765,192.67
CL3-22	382,974.44	3,765,095.11
CL3-23	383,059.38	3,765,021.15
CL3-24	383,153.77	3,764,955.05
CL3-25	383,227.70	3,764,917.29
CL3-26	383,311.07	3,764,893.68
CL3-27	383,389.73	3,764,896.83
CL3-28	383,454.22	3,764,923.58
CL3-29	383,526.58	3,764,967.64
CL3-30	383,948.57	3,765,233.59
CL3-31	384,124.92	3,765,354.76
CL3-32	384,302.68	3,765,461.77
CL3-33	384,447.40	3,765,597.10
CL3-34	384,508.75	3,765,727.71
CL3-35	384,615.72	3,765,878.78
CL3-36	384,775.59	3,766,039.44
CL3-37	384,888.66	3,766,116.42
CL4-4	382,415.47	3,765,787.28
CL4-5	382,712.35	3,765,742.23
CL4-6	382,948.19	3,765,732.33
CL4-7	383,231.09	3,765,763.77
CL4-8	383,472.04	3,765,818.56
CL4-9	383,687.40	3,765,886.17
CL4-10	383,901.17	3,765,972.66
CL4-11	384,118.10	3,766,100.03
CL4-12	384,243.07	3,766,201.52
CL4-13	384,367.62	3,766,301.51
CL4-14	384,471.94	3,766,418.59

DETAIL "A"
Scale: 1" = 300'



LEGEND

PROJECT BASELINE/ALIGNMENT

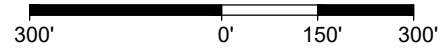
TRANSECTS / PROFILES (BA-0217)

MARSH CREATION AREA PROJECT: BA-0217

MARSH CREATION AREA PROJECT: BA-0240

REVISED BY: DATE:

HORIZONTAL SCALE
1" = 300'



DATE: 07/09/2020 JOB# 2201006



HYDROTERRA

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

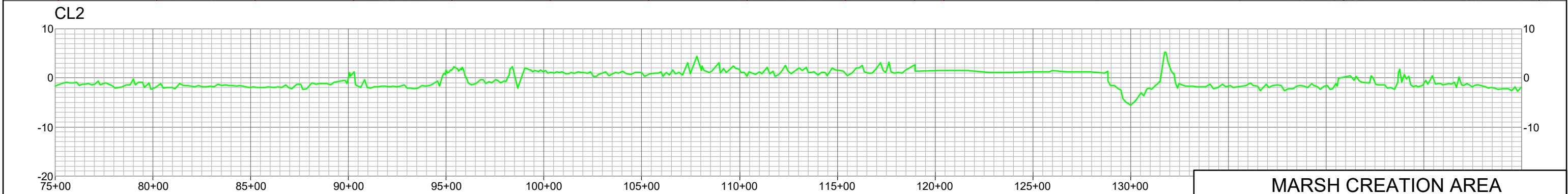
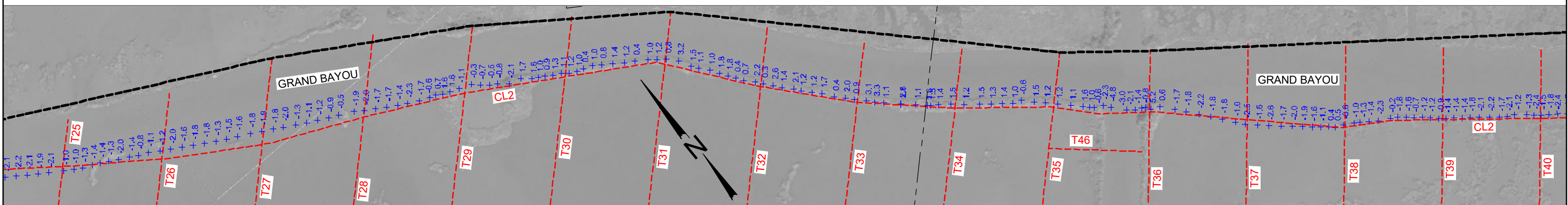
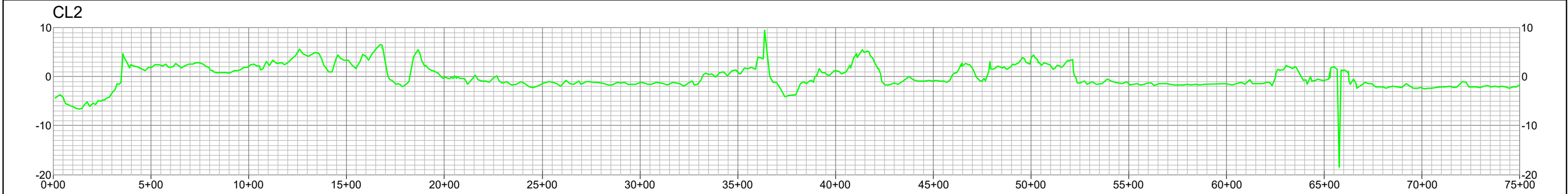
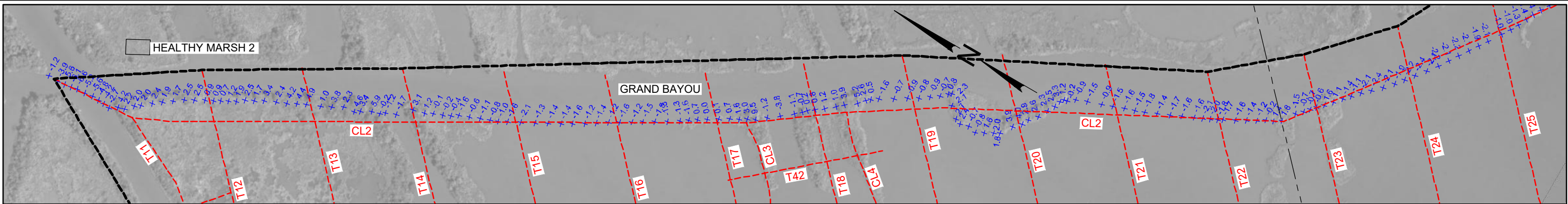
FILE: Grand Bayou BA-0217_Design_MCA_070920.dwg

MARSH CREATION AREA

GRAND BAYOU RIDGE AND
MARSH RESTORATION PROJECT
PROJECT NO. BA-0217

DESIGN SURVEY
DETAIL "A"
PLAQUEMINES PARISH, LA.

SHEET: 16 OF 110





LEGEND—PLAN VIEW		LEGEND—PROFILE	
	PROJECT BASELINE / ALIGNMENT		DESIGN SURVEY
	TRANSECTS / PROFILES (BA-0217)		
	MARSH CREATION AREA PROJECT: BA-0217		
	MARSH CREATION AREA PROJECT: BA-0240		
	ELEVATIONS IN FEET (NAVD88)		

REVISED BY:	DATE:
HORIZONTAL SCALE: 1" = 500' 500' 0' 250' 500' VERTICAL SCALE: 1" = 20' 20' 0' 10' 20'	
DATE: 07/09/2020	JOB# 2201006

**HYDROTERRA**



PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Grand Bayou BA-0217_Design_MCA_070920.dwg

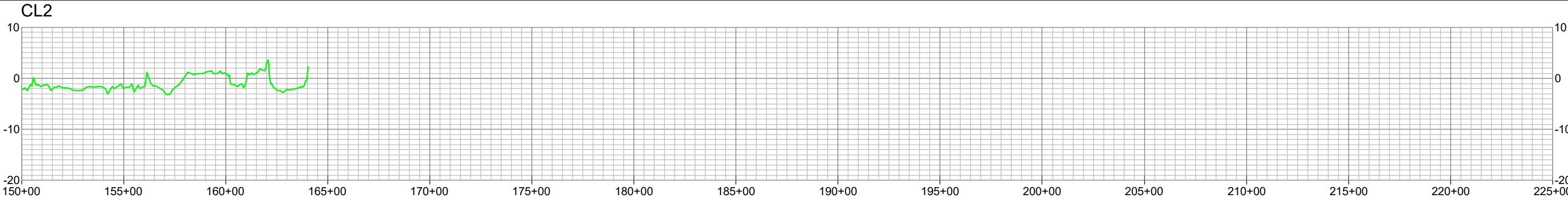
MARSH CREATION AREA

GRAND BAYOU RIDGE AND MARSH RESTORATION PROJECT
PROJECT NO. BA-0217

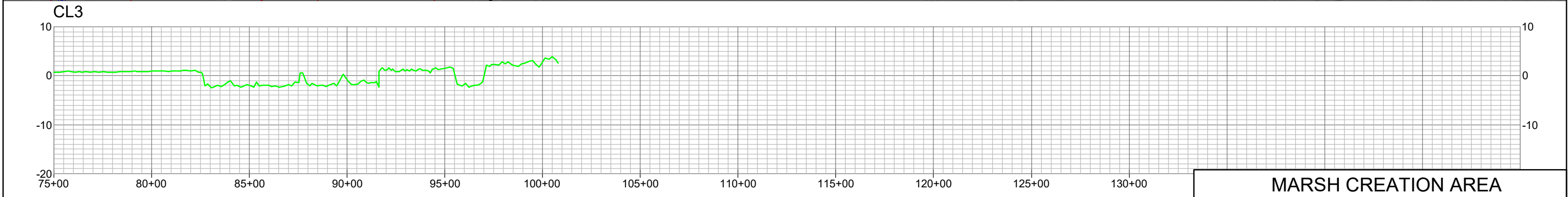
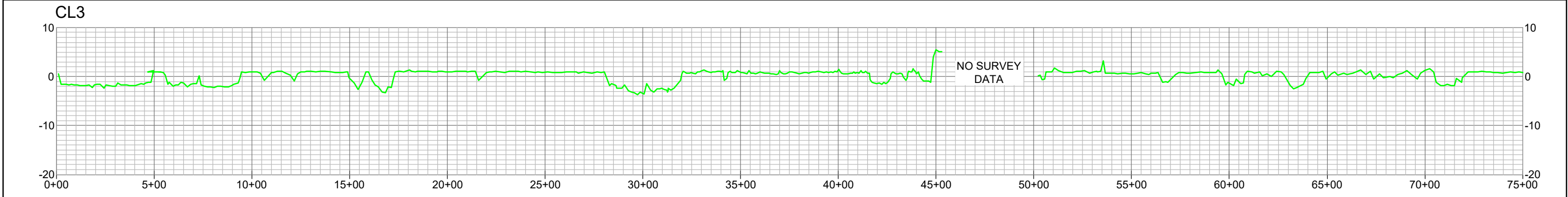
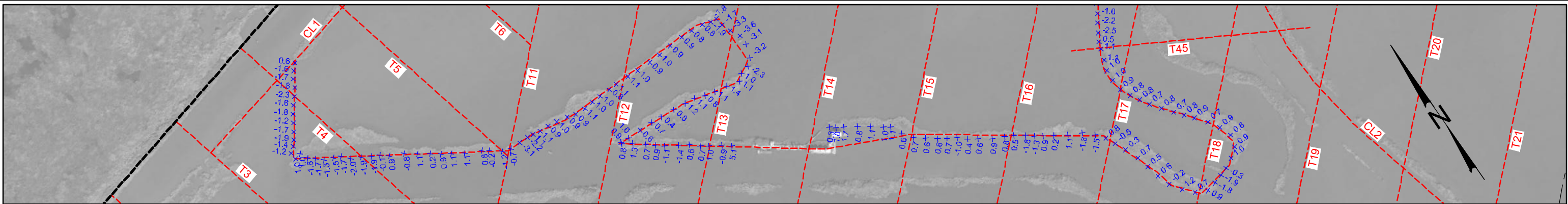
DESIGN SURVEY

PLAN / PROFILE VIEWS
PLAQUEMINES PARISH, LA.

SHEET: 18 OF 110



				MARSH CREATION AREA		
	LEGEND—PLAN VIEW		LEGEND—PROFILE		REVISED BY: DATE:	
	PROJECT BASELINE / ALIGNMENT		DESIGN SURVEY			
	TRANSECTS / PROFILES (BA-0217)					
	MARSH CREATION AREA PROJECT: BA-0217					
	MARSH CREATION AREA PROJECT: BA-0240					
	+1.0 ELEVATIONS IN FEET (NAVD88)					
				HORIZONTAL SCALE: 1" = 500'		
				500'0'250'500'		
				VERTICAL SCALE: 1" = 20'		
				20'0'10'20'		
				PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583		
		DATE: 07/09/2020		JOB# 2201006		
				FILE: Grand Bayou BA-0217_Design_MCA_070920.dwg		
				SHEET: 19 OF 110		



	LEGEND—PLAN VIEW		LEGEND—PROFILE		REVISED BY: DATE:		
	— PROJECT BASELINE / ALIGNMENT		— DESIGN SURVEY				
	- - - TRANSECTS / PROFILES (BA-0217)						
	[] MARSH CREATION AREA PROJECT: BA-0217						
[] MARSH CREATION AREA PROJECT: BA-0240							
+1.0 ELEVATIONS IN FEET (NAVD88)							
				HORIZONTAL SCALE: 1" = 500'		 	
				500' 0' 250' 500'			
				VERTICAL SCALE: 1" = 20'		PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583	
				20' 0' 10' 20'			
				DATE: 07/09/2020 JOB# 2201006		FILE: Grand Bayou BA-0217_Design_MCA_070920.dwg	
						SHEET: 20 OF 110	

MARSH CREATION AREA

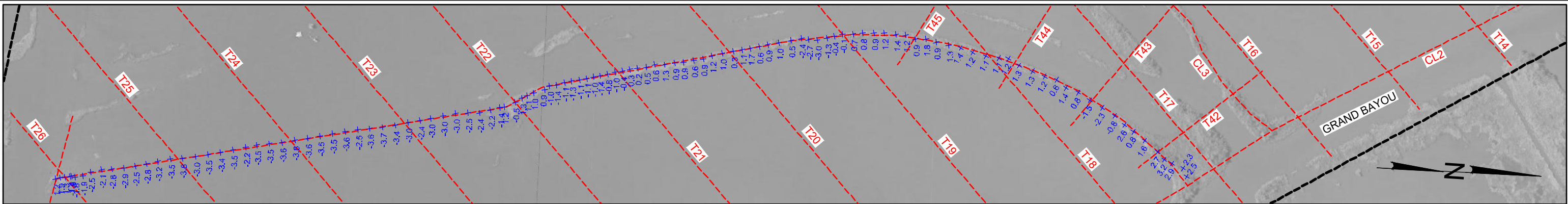
GRAND BAYOU RIDGE AND MARSH RESTORATION PROJECT

PROJECT NO. BA-0217

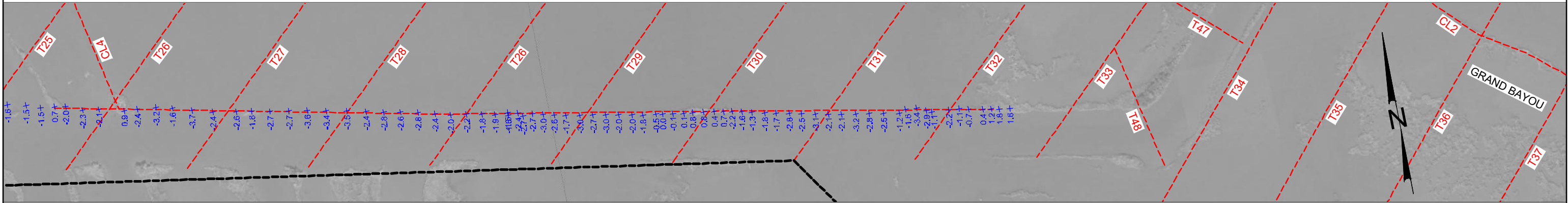
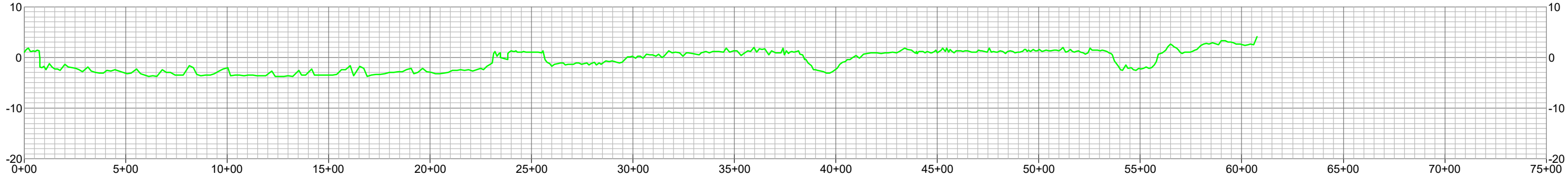
DESIGN SURVEY

PLAN / PROFILE VIEWS

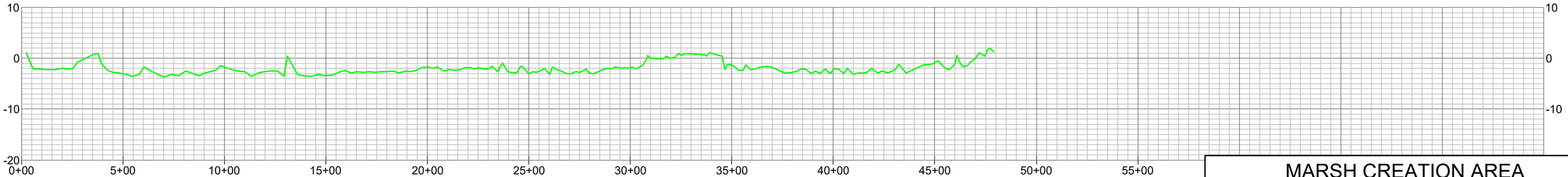
PLAQUEMINES PARISH, LA.



CL4



CL5



LEGEND—PLAN VIEW	
	PROJECT BASELINE / ALIGNMENT
	TRANSECTS / PROFILES (BA-0217)
	MARSH CREATION AREA PROJECT: BA-0217
	MARSH CREATION AREA PROJECT: BA-0240
	ELEVATIONS IN FEET (NAVD88)

LEGEND—PROFILE	
	DESIGN SURVEY

REVISED BY:	DATE:
HORIZONTAL SCALE: 1" = 500'	
VERTICAL SCALE: 1" = 20'	
DATE: 07/09/2020	JOB# 2201006



PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

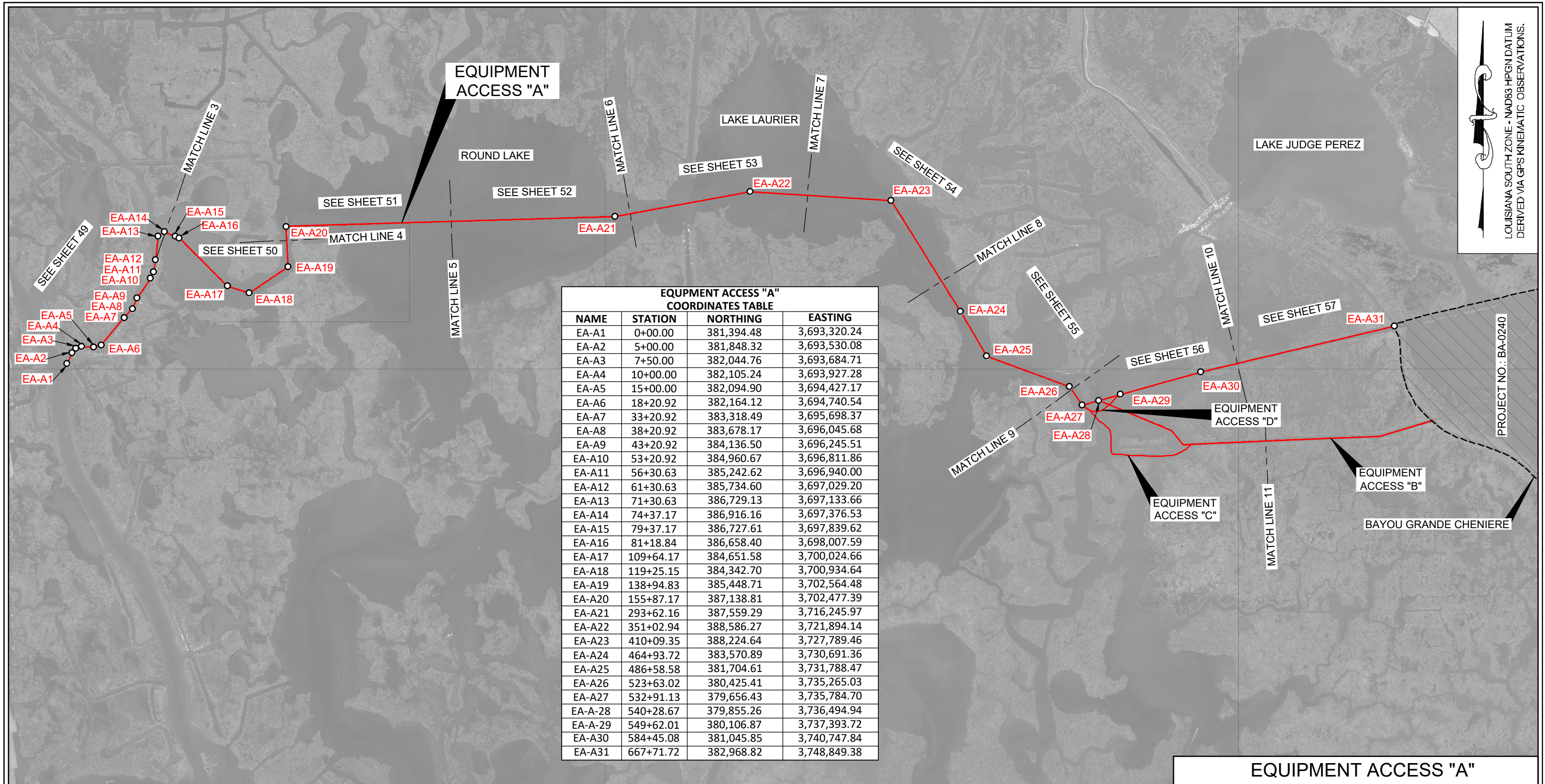
FILE: Grand Bayou BA-0217_Design_MCA_070920.dwg

MARSH CREATION AREA

GRAND BAYOU RIDGE AND
MARSH RESTORATION PROJECT
PROJECT NO. BA-0217

DESIGN SURVEY

PLAN / PROFILE VIEWS
PLAQUEMINES PARISH, LA.



EQUIPMENT ACCESS "A" COORDINATES TABLE			
NAME	STATION	NORTHING	EASTING
EA-A1	0+00.00	381,394.48	3,693,320.24
EA-A2	5+00.00	381,848.32	3,693,530.08
EA-A3	7+50.00	382,044.76	3,693,684.71
EA-A4	10+00.00	382,105.24	3,693,927.28
EA-A5	15+00.00	382,094.90	3,694,427.17
EA-A6	18+20.92	382,164.12	3,694,740.54
EA-A7	33+20.92	383,318.49	3,695,698.37
EA-A8	38+20.92	383,678.17	3,696,045.68
EA-A9	43+20.92	384,136.50	3,696,245.51
EA-A10	53+20.92	384,960.67	3,696,811.86
EA-A11	56+30.63	385,242.62	3,696,940.00
EA-A12	61+30.63	385,734.60	3,697,029.20
EA-A13	71+30.63	386,729.13	3,697,133.66
EA-A14	74+37.17	386,916.16	3,697,376.53
EA-A15	79+37.17	386,727.61	3,697,839.62
EA-A16	81+18.84	386,658.40	3,698,007.59
EA-A17	109+64.17	384,651.58	3,700,024.66
EA-A18	119+25.15	384,342.70	3,700,934.64
EA-A19	138+94.83	385,448.71	3,702,564.48
EA-A20	155+87.17	387,138.81	3,702,477.39
EA-A21	293+62.16	387,559.29	3,716,245.97
EA-A22	351+02.94	388,586.27	3,721,894.14
EA-A23	410+09.35	388,224.64	3,727,789.46
EA-A24	464+93.72	383,570.89	3,730,691.36
EA-A25	486+58.58	381,704.61	3,731,788.47
EA-A26	523+63.02	380,425.41	3,735,265.03
EA-A27	532+91.13	379,656.43	3,735,784.70
EA-A-28	540+28.67	379,855.26	3,736,494.94
EA-A-29	549+62.01	380,106.87	3,737,393.72
EA-A30	584+45.08	381,045.85	3,740,747.84
EA-A31	667+71.72	382,968.82	3,748,849.38



LEGEND

PROJECT BASELINE/ALIGNMENT

REVISED BY: DATE:

HORIZONTAL SCALE
1" = 4000'

4000'

0'

2000'

4000'

DATE: 07/09/2020 JOB# 2201006

 **HYDROTERRA**



PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

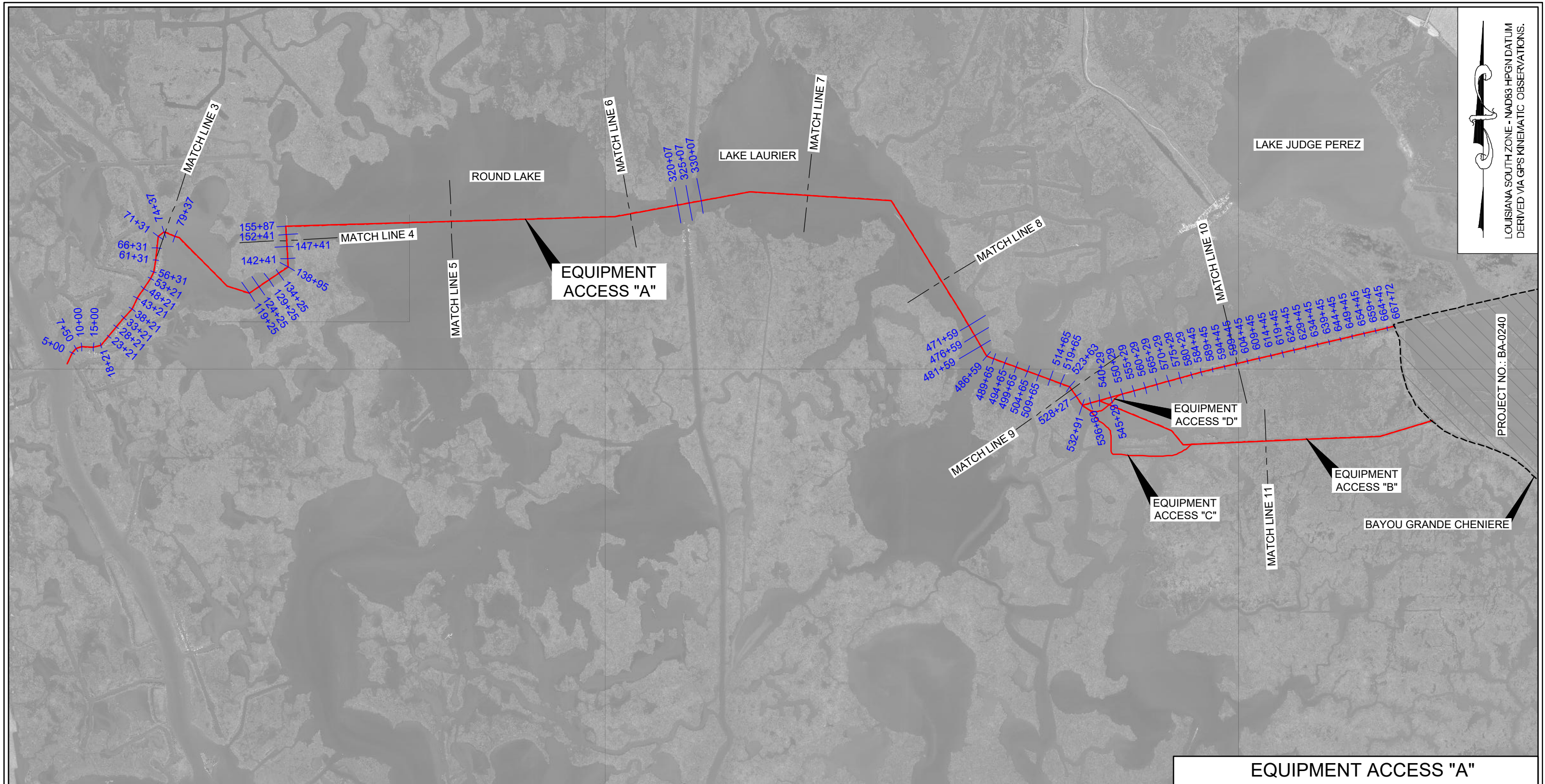
EQUIPMENT ACCESS "A"

GRAND BAYOU RIDGE AND
MARSH RESTORATION PROJECT
PROJECT NO. BA-0217

DESIGN SURVEY

ALIGNMENT PLAN VIEW
PLAQUEMINES PARISH, LA.

FILE: Grand Bayou BA-0217_Design_EQUIPMENT ACCESS_070920.dwg SHEET: 22 OF 110



LOUISIANA SOUTH ZONE - NAD83 HPGN DATUM
DERIVED VIA GPS KINEMATIC OBSERVATIONS.

PROJECT NO.: BA-0240



LEGEND	
—	PROJECT BASELINE/ALIGNMENT
—	SURVEY CROSS-SECTION

REVISED BY:	DATE:
HORIZONTAL SCALE 1" = 4000'	
DATE: 07/09/2020	JOB# 2201006

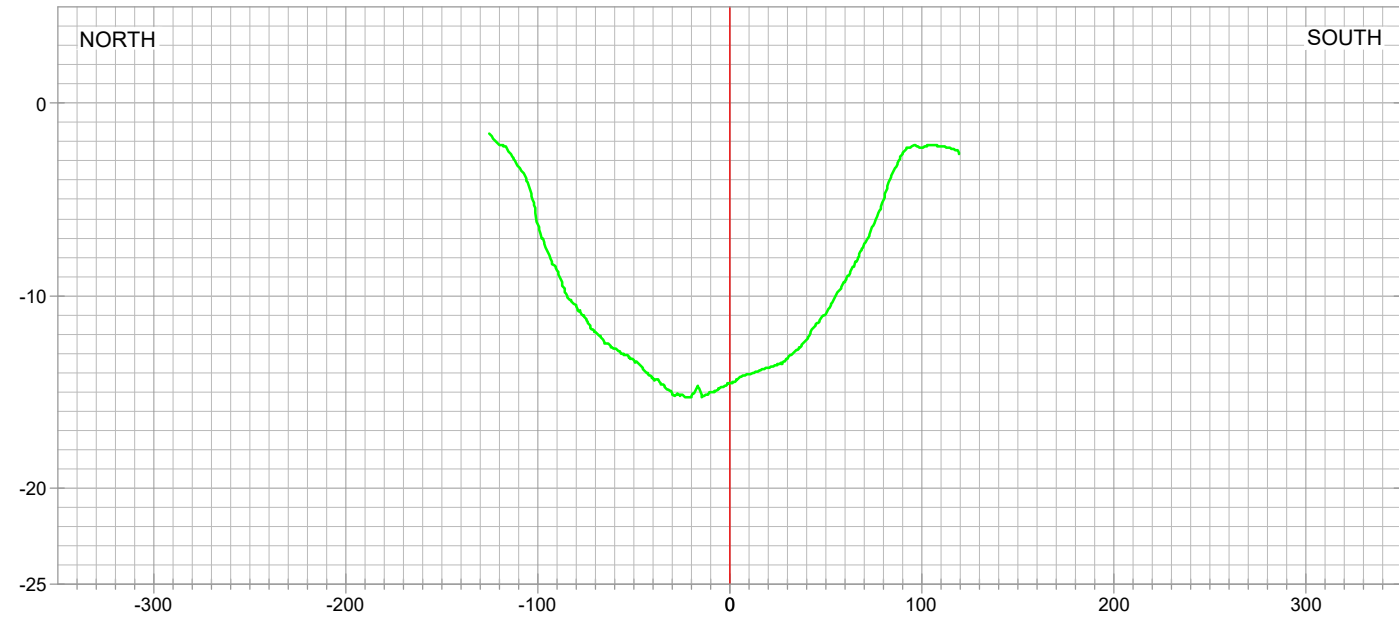
**HYDROTERRA**



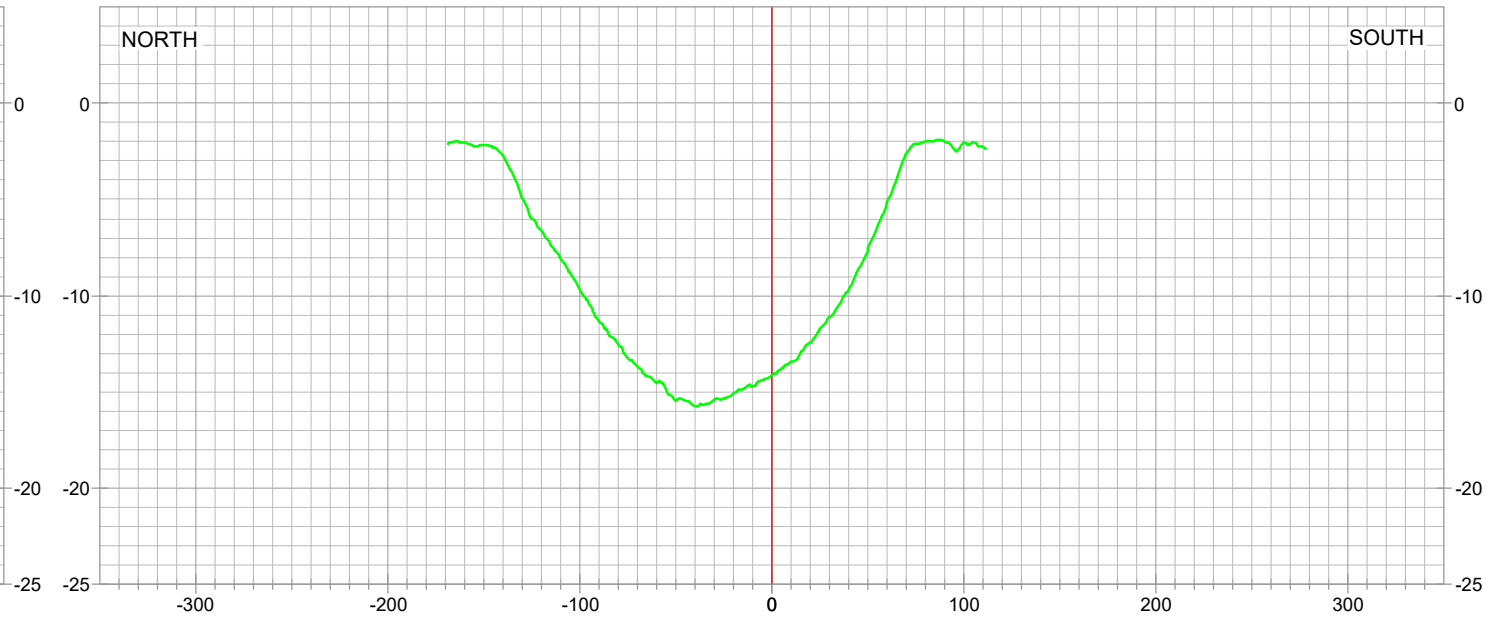
PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Grand Bayou BA-0217_Design_EQUIPMENT ACCESS_070920.dwg

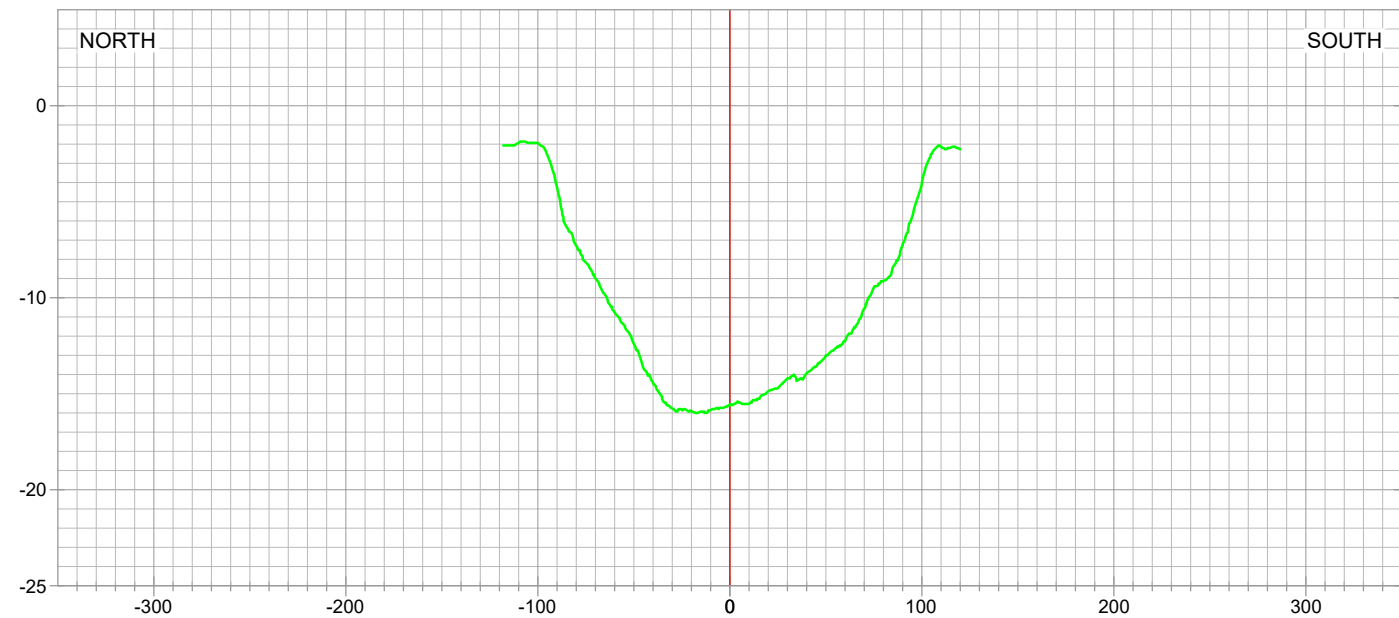
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GRAND BAYOU RIDGE AND MARSH RESTORATION PROJECT PROJECT NO. BA-0217	
DESIGN SURVEY SURVEY PLAN VIEW PLAQUEMINES PARISH, LA.	
	SHEET: 23 OF 110



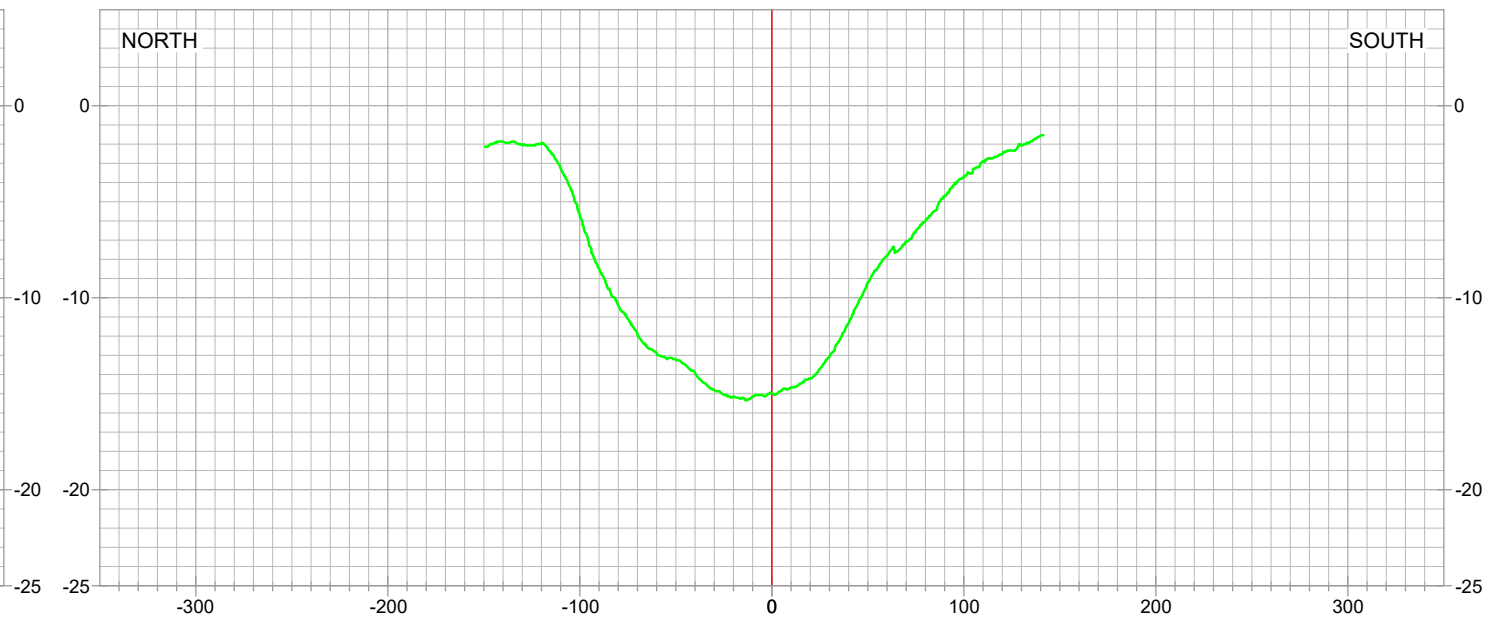
STA. 5+00



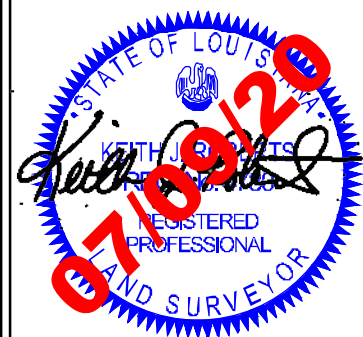
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STA. 7+50



STA. 15+00

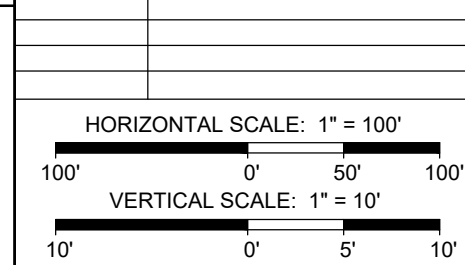


LEGEND

- PRE-CONSTRUCTION SURVEY
- PROJECT BASELINE / ALIGNMENT

REVISED BY:

DATE:



DATE: 07/09/2020

JOB# 2201006



PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

FILE: Grand Bayou BA-0217_Design_EQUIPMENT ACCESS_070920.dwg

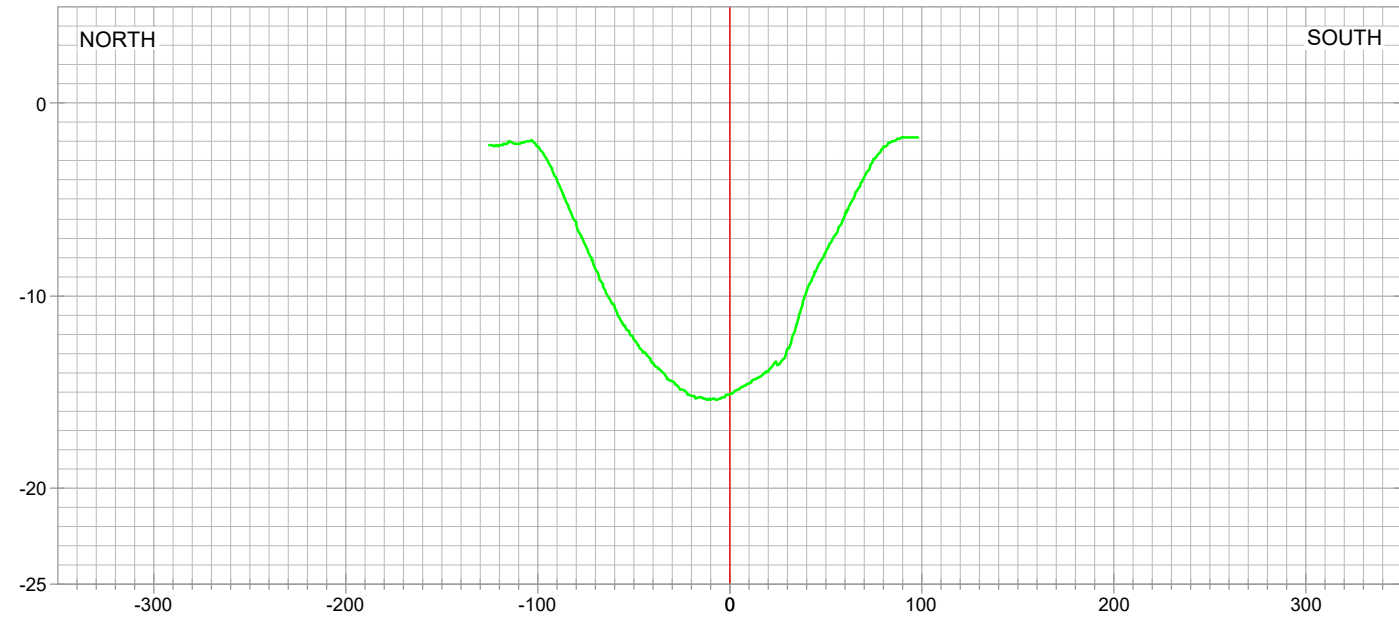
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GRAND BAYOU RIDGE AND
MARSH RESTORATION PROJECT
PROJECT NO. BA-0217

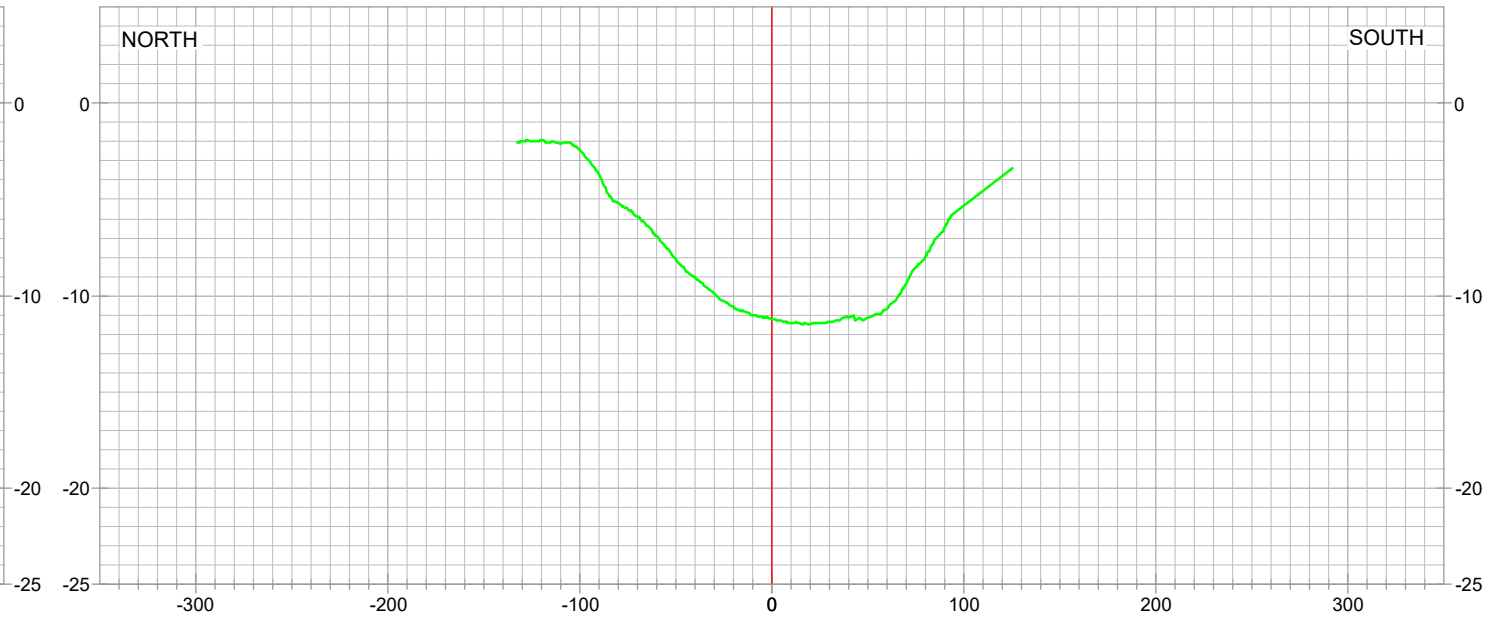
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CROSS-SECTION VIEWS
PLAQUEMINES PARISH, LA.

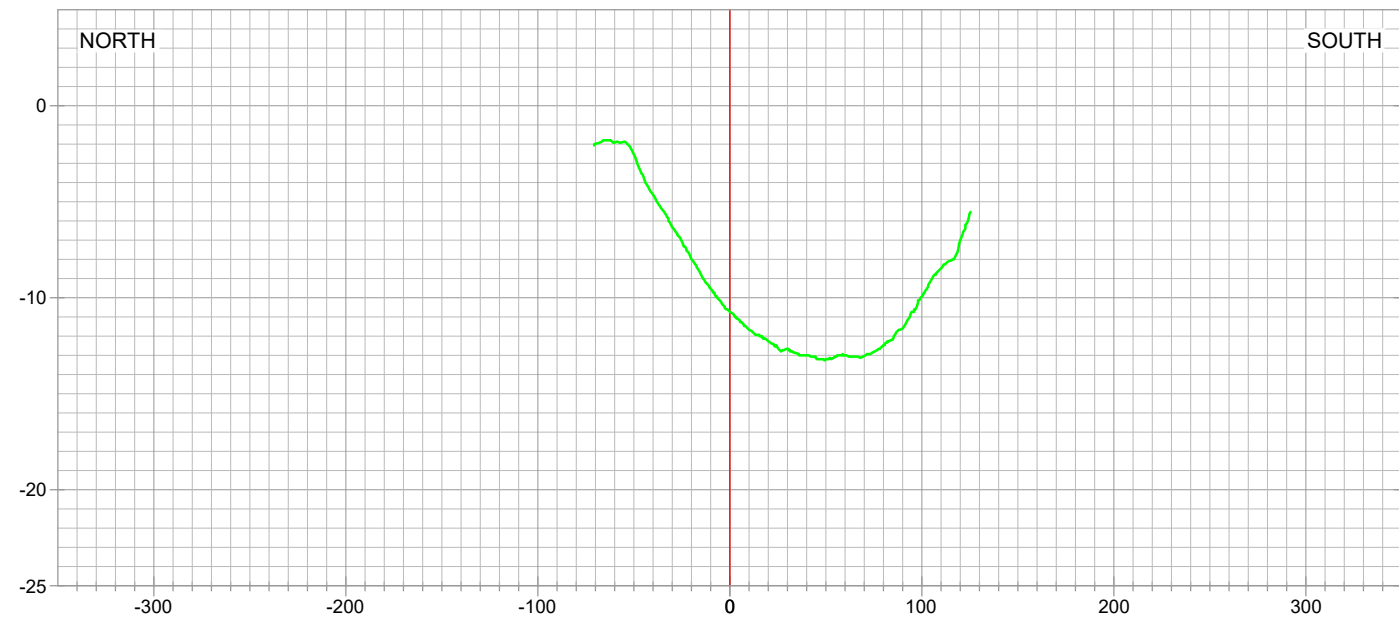
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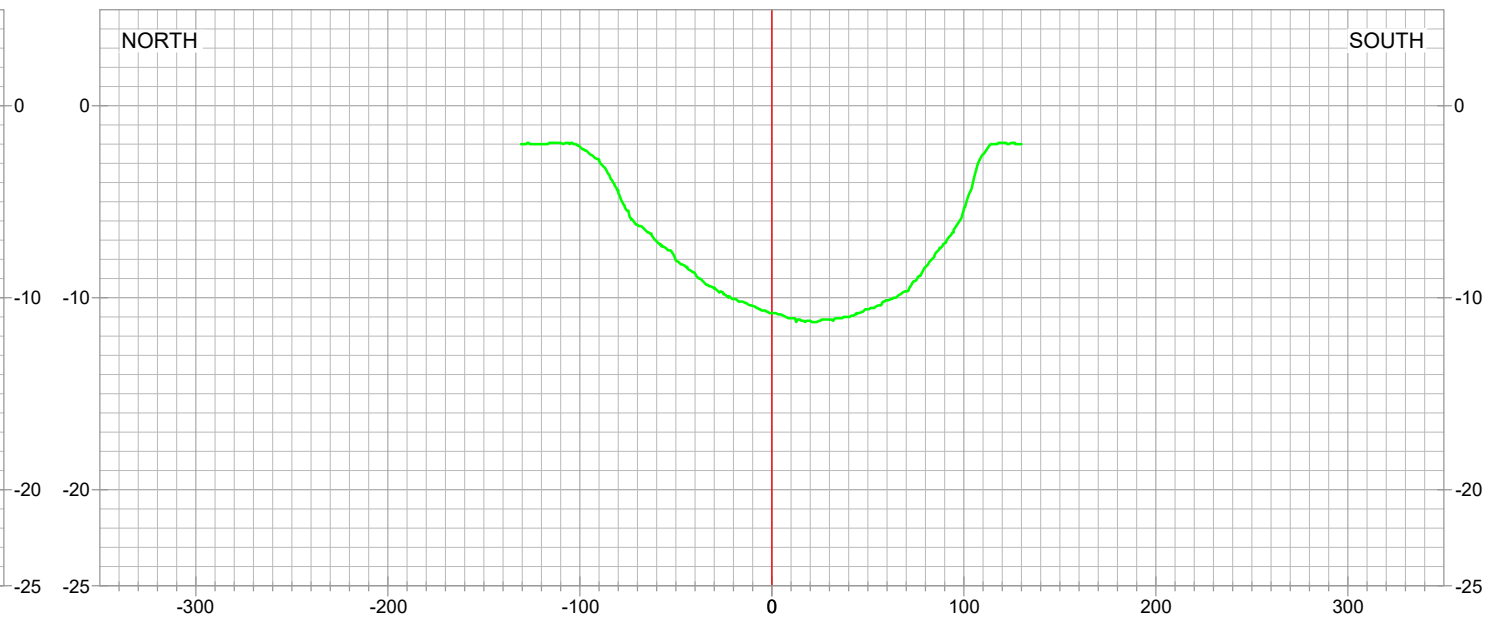
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STA. 33+21

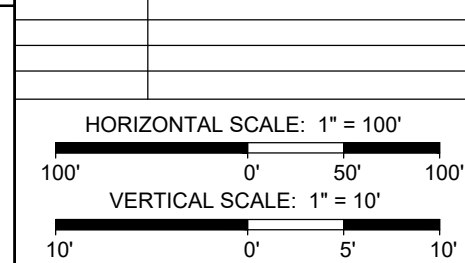


LEGEND

- PRE-CONSTRUCTION SURVEY
- - - PROJECT BASELINE / ALIGNMENT

REVISED BY:

DATE:



DATE: 07/09/2020

JOB# 2201006



PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

FILE: Grand Bayou BA-0217_Design_EQUIPMENT ACCESS_070920.dwg

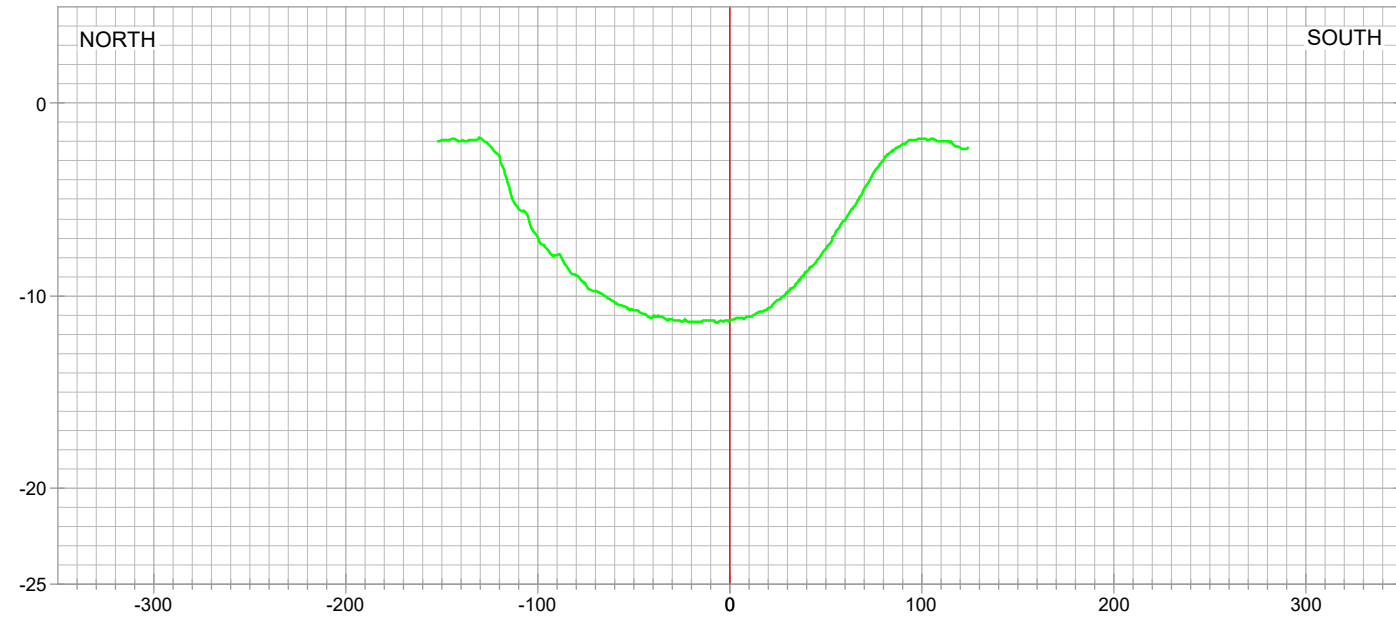
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GRAND BAYOU RIDGE AND
MARSH RESTORATION PROJECT
PROJECT NO. BA-0217

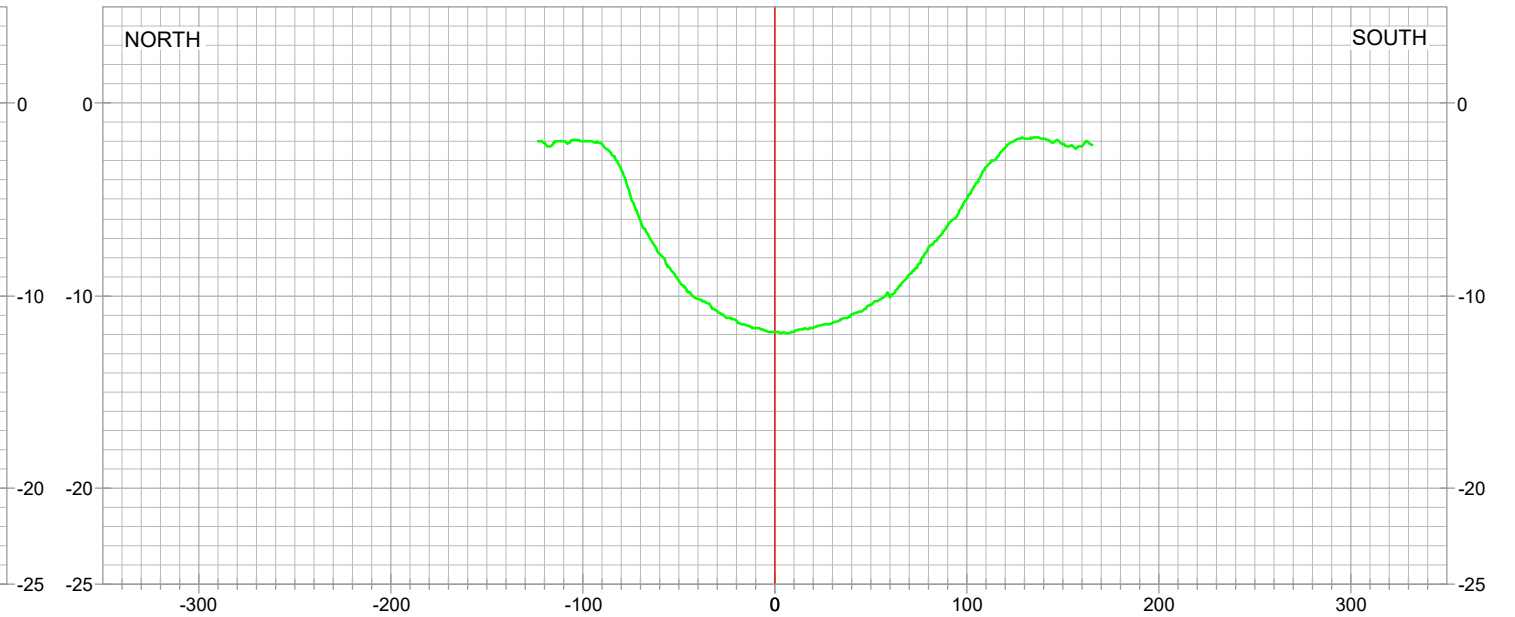
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CROSS-SECTION VIEWS
PLAQUEMINES PARISH, LA.

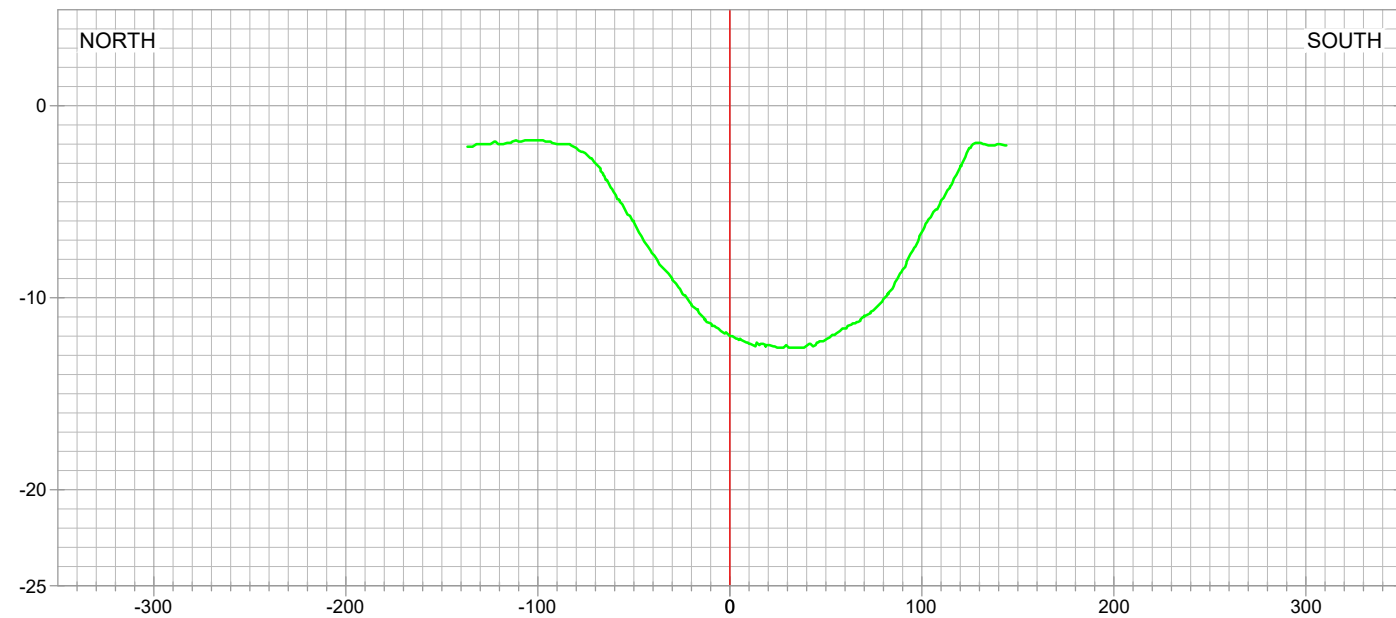
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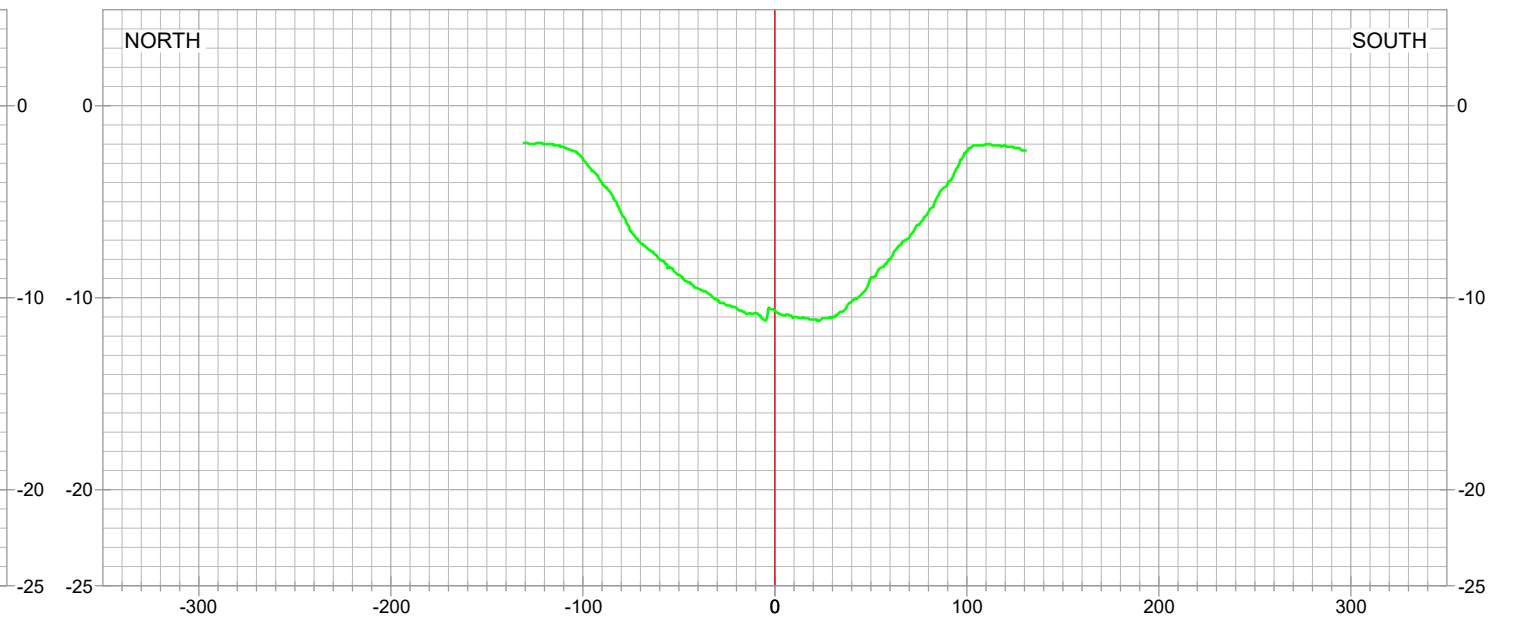
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STA. 43+21



STA. 53+21

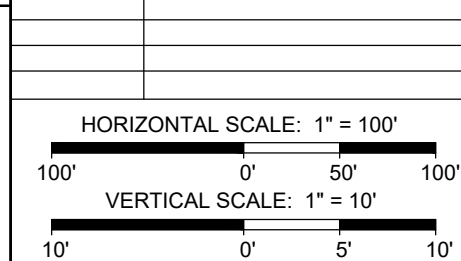


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- PRE-CONSTRUCTION SURVEY
- PROJECT BASELINE / ALIGNMENT

REVISED BY:

DATE:



DATE: 07/09/2020

JOB# 2201006



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FILE: Grand Bayou BA-0217_Design_EQUIPMENT ACCESS_070920.dwg

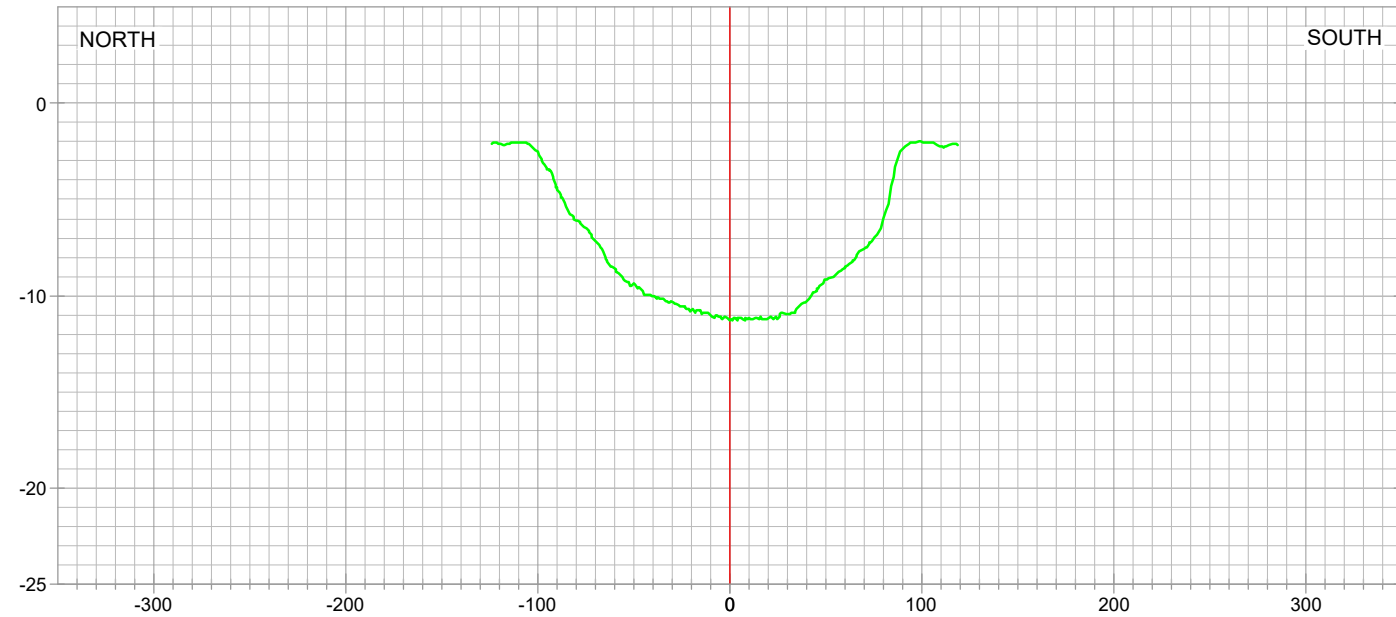
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GRAND BAYOU RIDGE AND
MARSH RESTORATION PROJECT
PROJECT NO. BA-0217

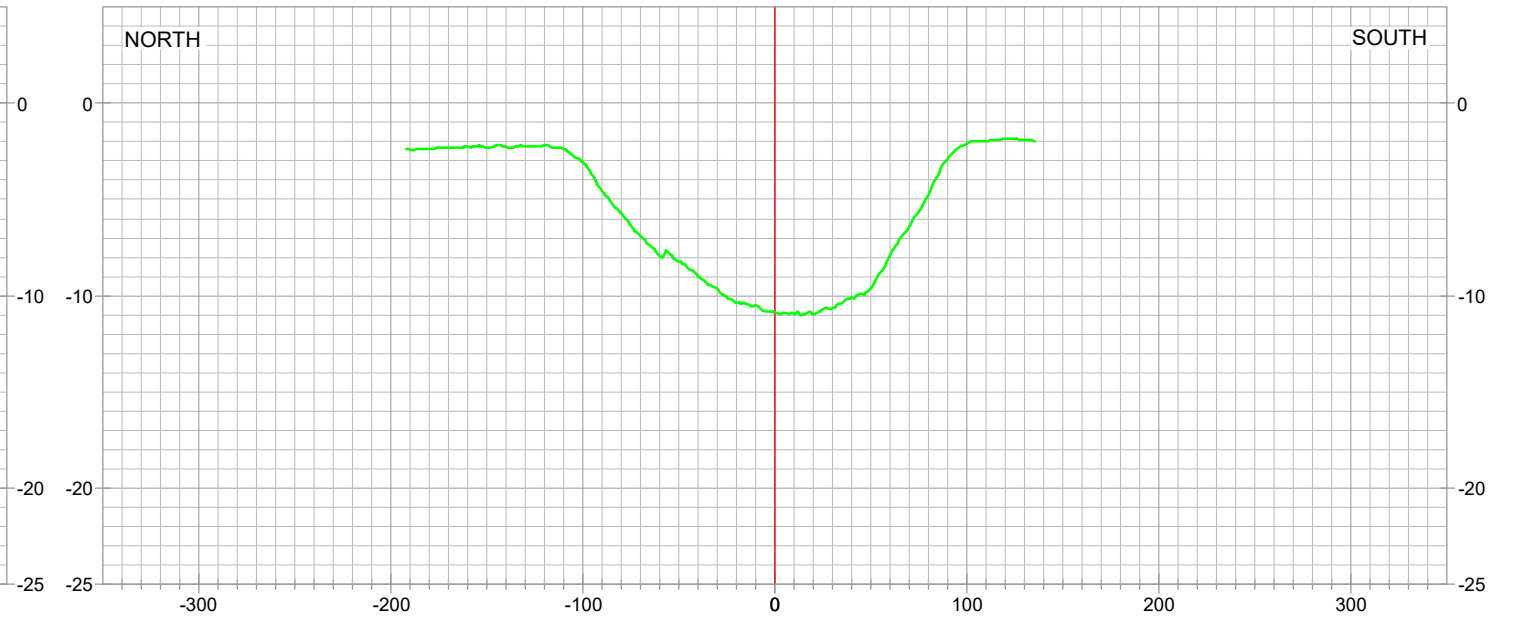
DESIGN SURVEY

CROSS-SECTION VIEWS
PLAQUEMINES PARISH, LA.

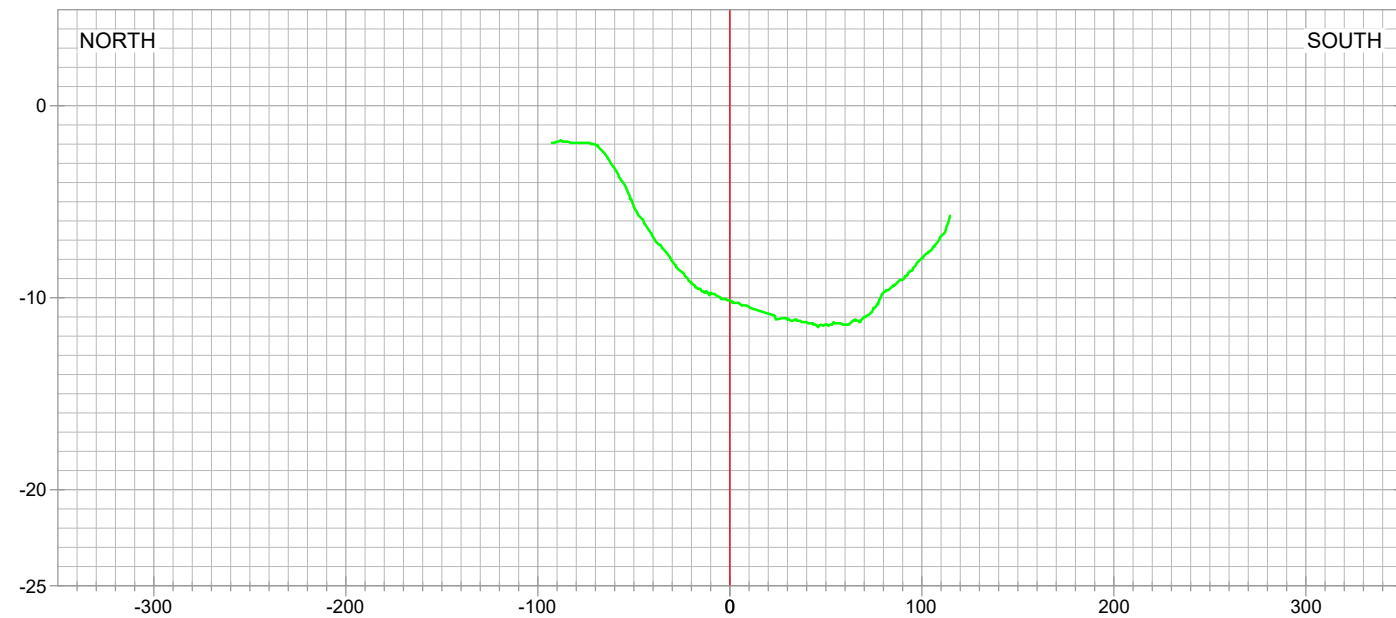
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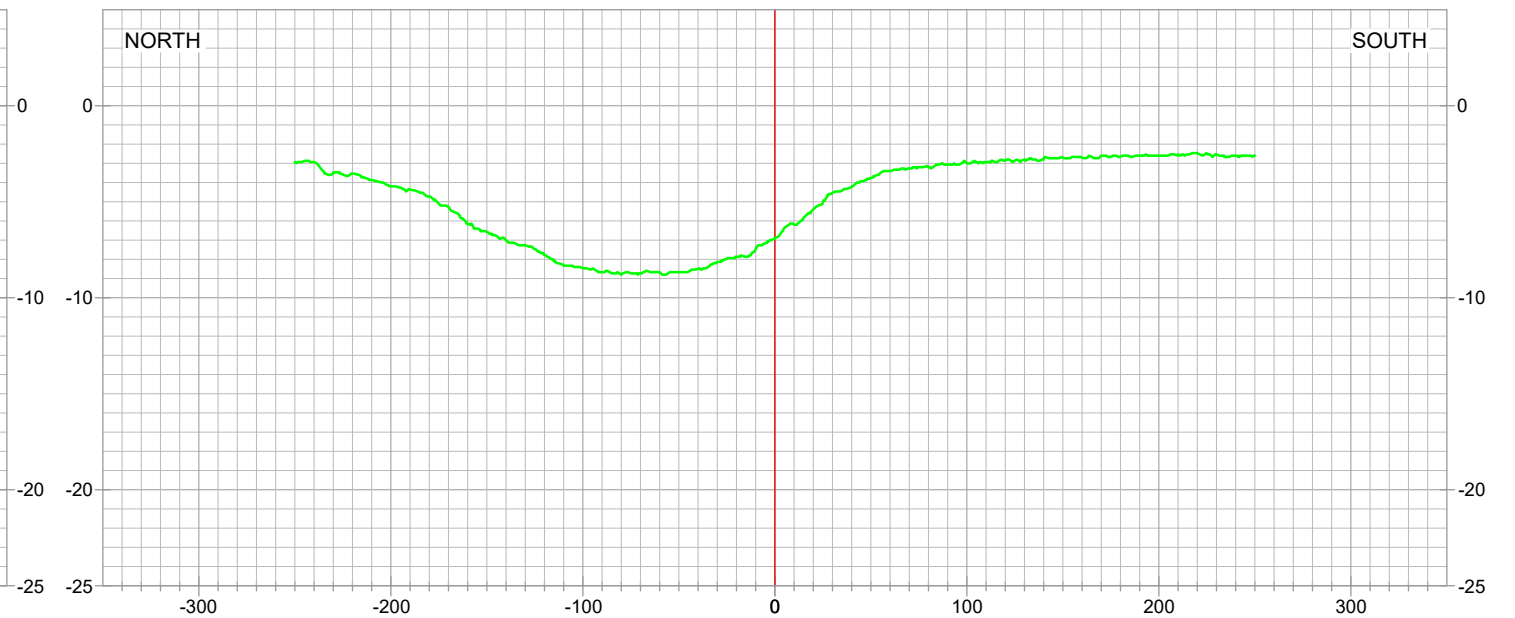
STA. 56+31



STA. 66+31



STA. 61+31



STA. 71+31



LEGEND

PRE-CONSTRUCTION SURVEY

PROJECT BASELINE / ALIGNMENT

REVISED BY: DATE:

HORIZONTAL SCALE: 1" = 100'

100' 0' 50' 100'

VERTICAL SCALE: 1" = 10'

10' 0' 5' 10'

DATE: 07/09/2020 JOB# 2201006



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FILE: Grand Bayou BA-0217_Design_EQUIPMENT ACCESS_070920.dwg

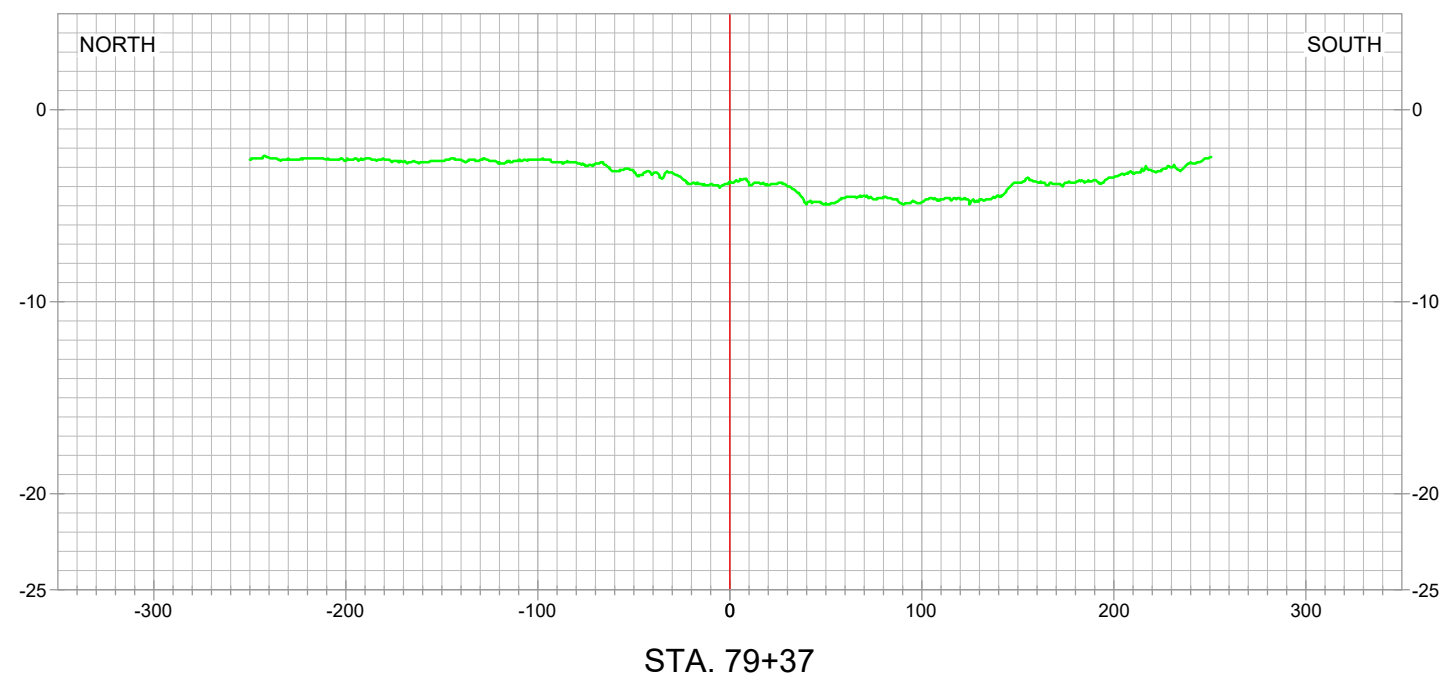
EQUIPMENT ACCESS "A"

GRAND BAYOU RIDGE AND
MARSH RESTORATION PROJECT
PROJECT NO. BA-0217

DESIGN SURVEY

CROSS-SECTION VIEWS
PLAQUEMINES PARISH, LA.

SHEET: 27 OF 110



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LEGEND

PRE-CONSTRUCTION SURVEY

PROJECT BASELINE / ALIGNMENT

REVISÉD BY:

DATE:

HORIZONTAL SCALE: 1" = 100'

VERTICAL SCALE: 1" = 10'



HYDROTERRA



EQUIPMENT ACCESS "A"

GRAND BAYOU RIDGE AND
MARSH RESTORATION PROJECT
PROJECT NO. BA-0217

DESIGN SURVEY

CROSS-SECTION VIEWS
PLAQUEMINES PARISH, LA.

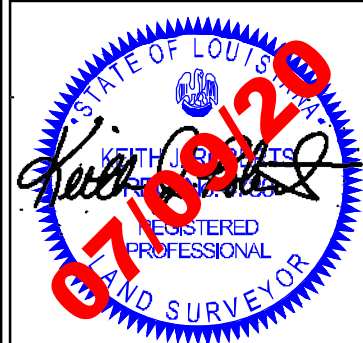
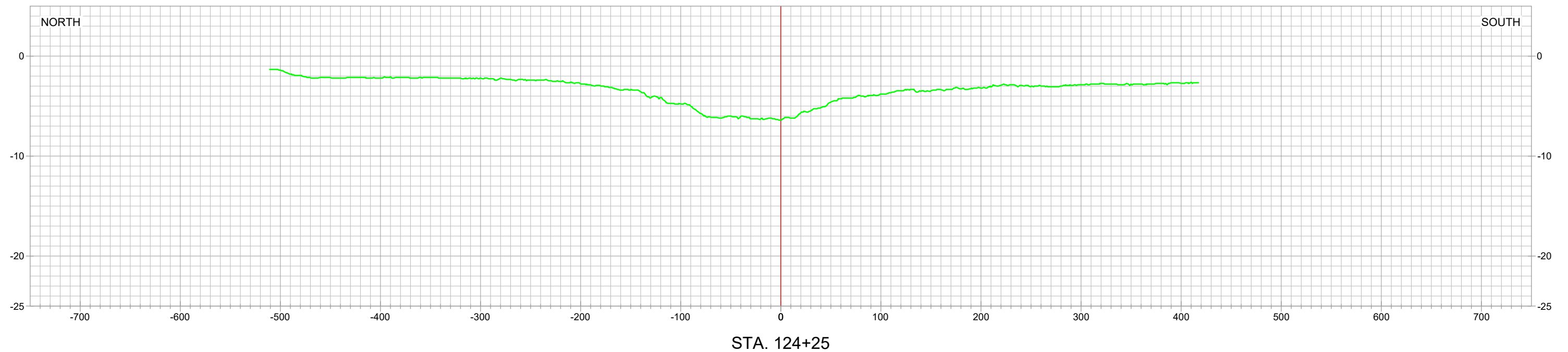
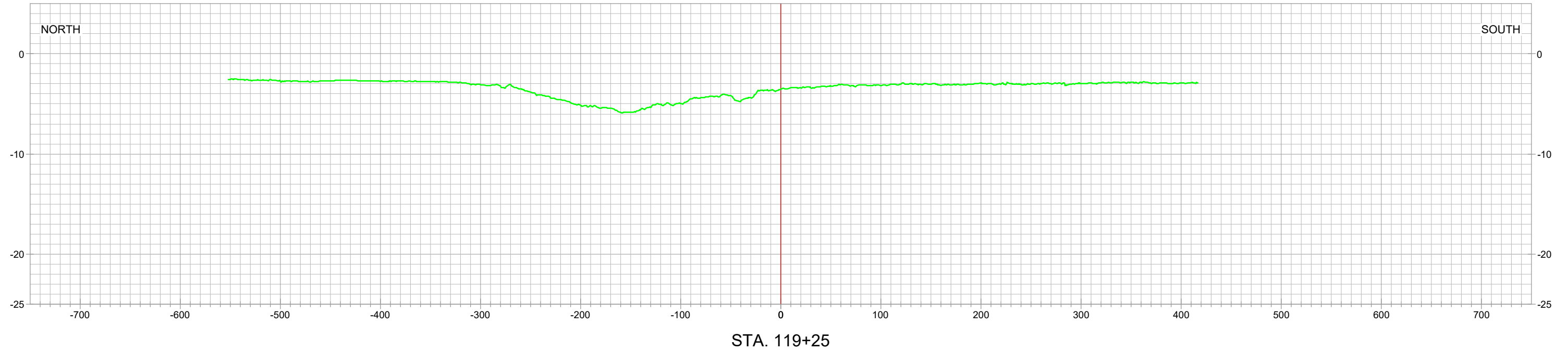
PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

DATE: 07/09/2020

JOB# 2201006

FILE: Grand Bayou BA-0217_Design_EQUIPMENT ACCESS_070920.dwg

SHEET: 28 OF 110



LEGEND	
	PRE-CONSTRUCTION SURVEY
	PROJECT BASELINE / ALIGNMENT

REVISED BY:	DATE:
HORIZONTAL SCALE: 1" = 100'	
VERTICAL SCALE: 1" = 10'	
DATE: 07/09/2020	JOB# 2201006



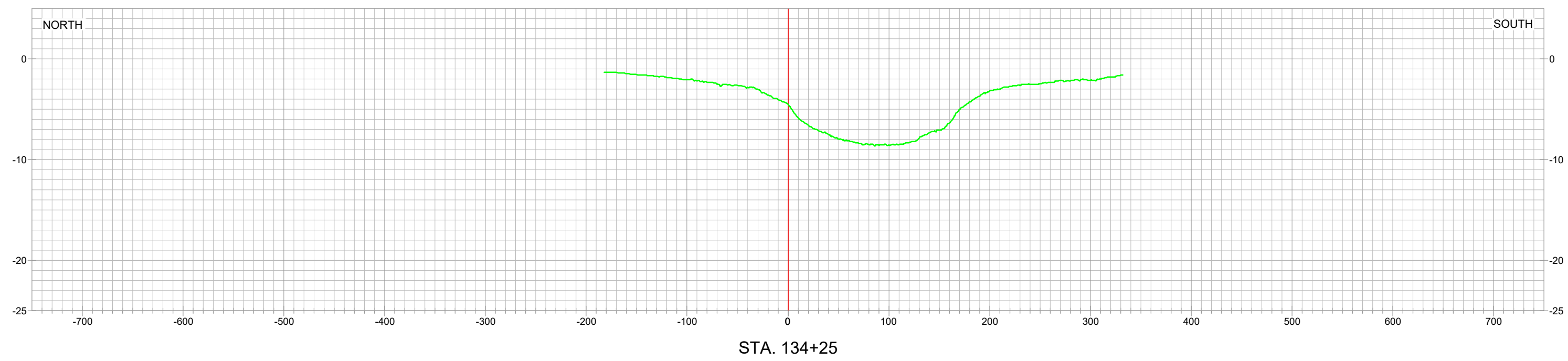
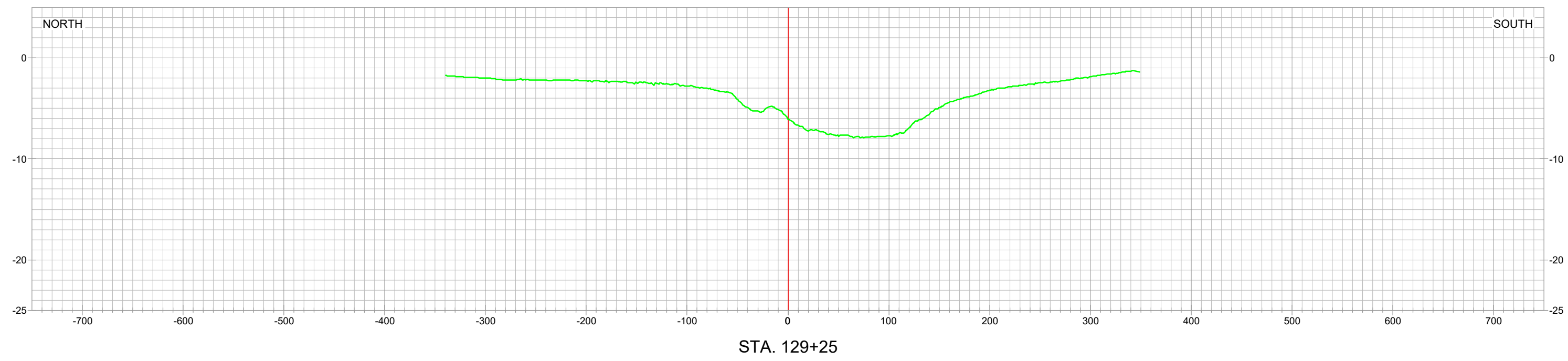
PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583		
FILE: Grand Bayou BA-0217_Design_EQUIPMENT ACCESS_070920.dwg	SHEET: 29 OF 110	

EQUIPMENT ACCESS "A"

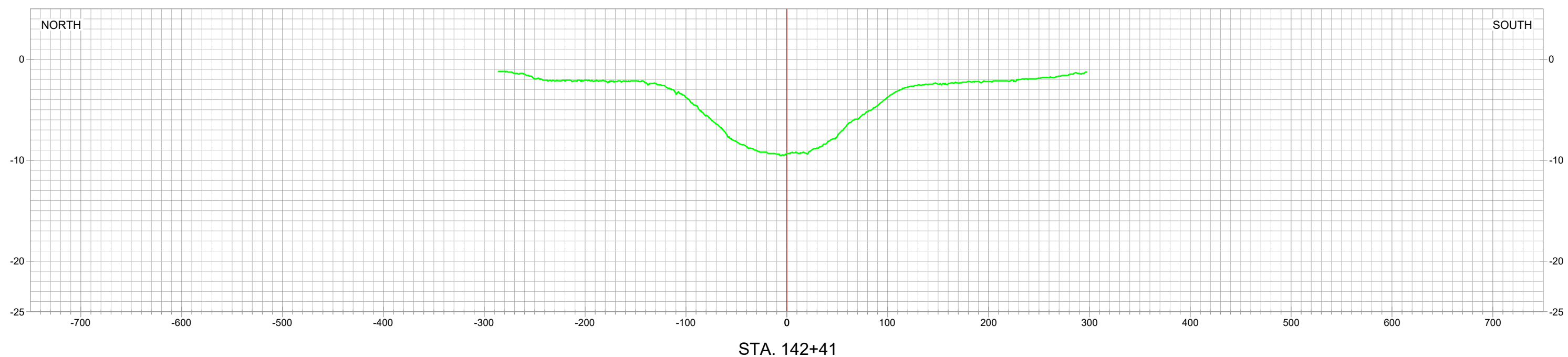
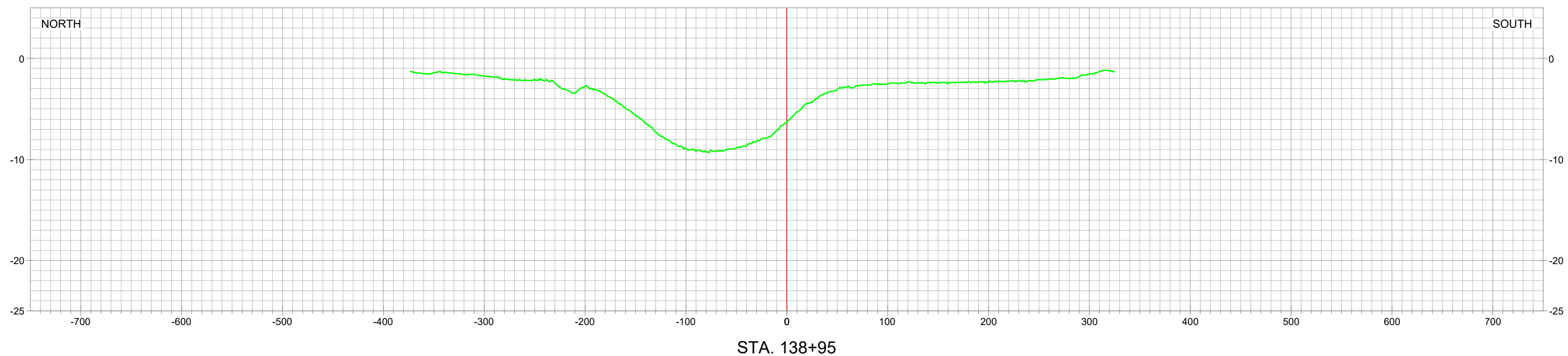
GRAND BAYOU RIDGE AND MARSH RESTORATION PROJECT
PROJECT NO. BA-0217

DESIGN SURVEY

CROSS-SECTION VIEWS
PLAQUEMINES PARISH, LA.



	LEGEND		REVISED BY: DATE:		 	EQUIPMENT ACCESS "A"		
		PRE-CONSTRUCTION SURVEY				GRAND BAYOU RIDGE AND MARSH RESTORATION PROJECT PROJECT NO. BA-0217 <i>DESIGN SURVEY</i> CROSS-SECTION VIEWS PLAQUEMINES PARISH, LA.		
			PROJECT BASELINE / ALIGNMENT					
		HORIZONTAL SCALE: 1" = 100' 100' 0' 50' 100'		PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583				
		VERTICAL SCALE: 1" = 10' 10' 0' 5' 10'		FILE: Grand Bayou BA-0217_Design_EQUIPMENT ACCESS_070920.dwg				
		DATE: 07/09/2020 JOB# 2201006		SHEET: 30 OF 110				



LEGEND

PRE-CONSTRUCTION SURVEY

PROJECT BASELINE / ALIGNMENT

REVISED BY:	DATE:
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DATE:

HORIZONTAL SCALE: 1" = 100'

VERTICAL SCALE: 1" = 10'



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FILE: Grand Bayou BA-0217_Design_EQUIPMENT ACCESS_070920.dwg

EQUIPMENT ACCESS "A"

GRAND BAYOU RIDGE AND
MARSH RESTORATION PROJECT
PROJECT NO. BA-0217

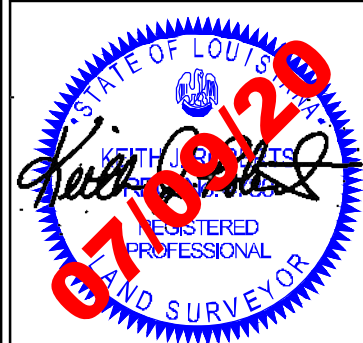
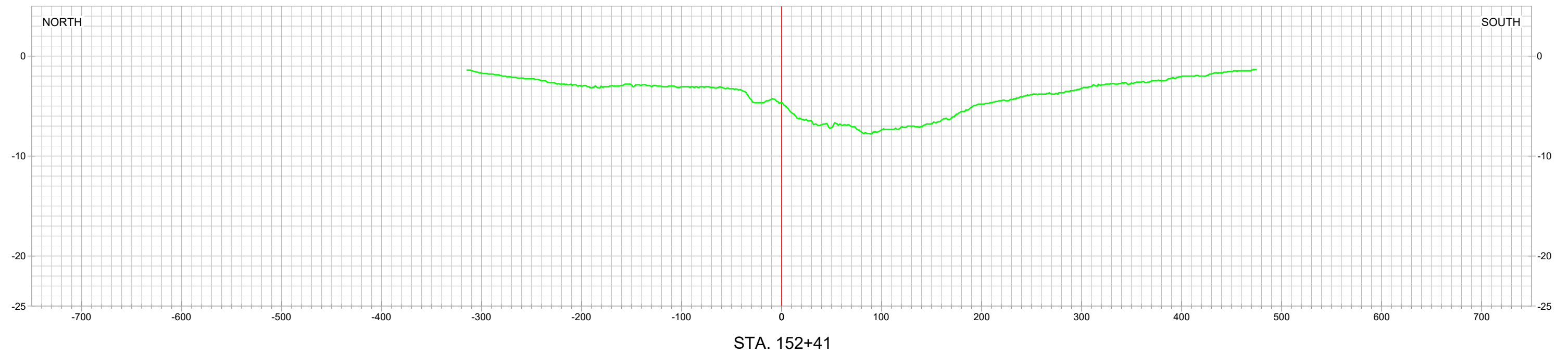
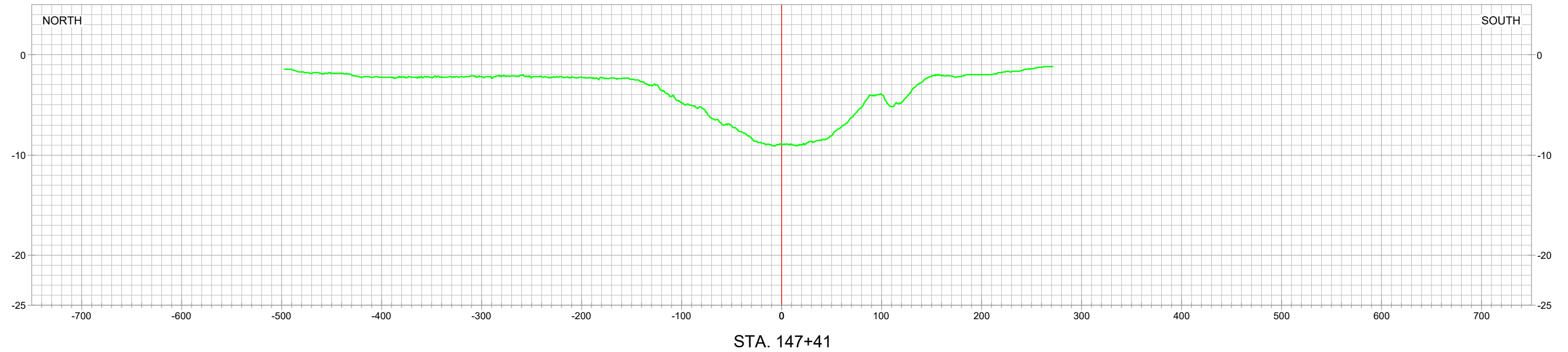
DESIGN SURVEY

CROSS-SECTION VIEWS
PLAQUEMINES PARISH, LA.

DATE: 07/09/2020

JOB# 2201006

SHEET: 31 OF 110



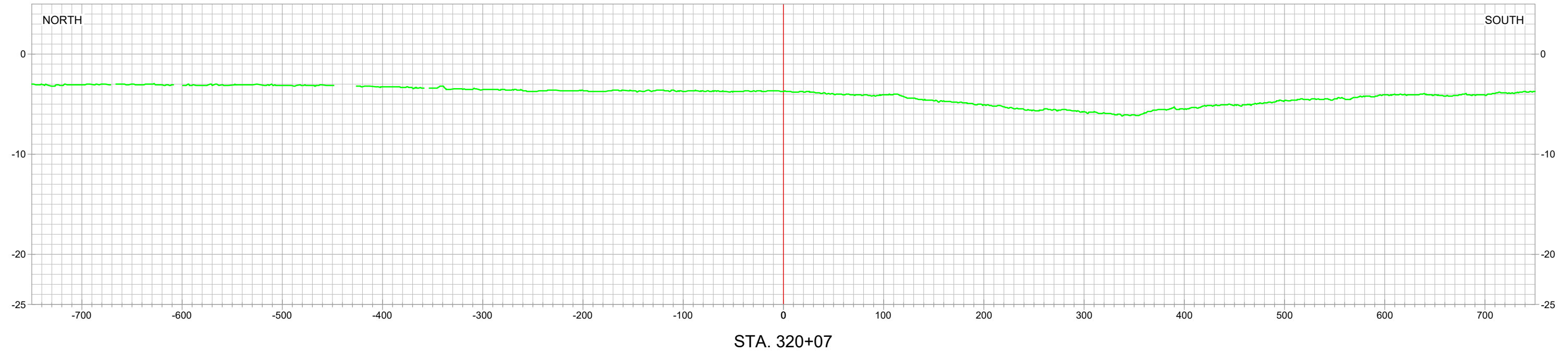
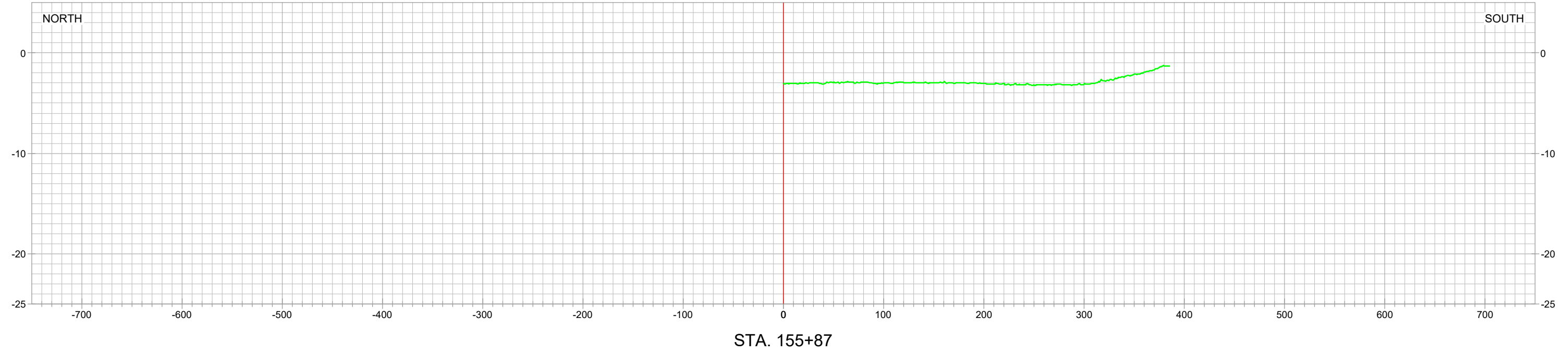
LEGEND	
	PRE-CONSTRUCTION SURVEY
	PROJECT BASELINE / ALIGNMENT

REVISED BY:	DATE:
HORIZONTAL SCALE: 1" = 100'	
VERTICAL SCALE: 1" = 10'	
DATE: 07/09/2020	JOB# 2201006



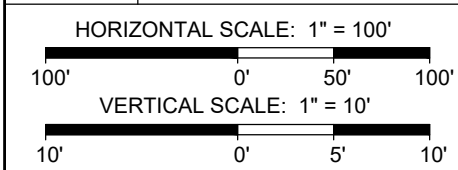
PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583		
FILE: Grand Bayou BA-0217_Design_EQUIPMENT ACCESS_070920.dwg	SHEET: 32 OF 110	

EQUIPMENT ACCESS "A"
GRAND BAYOU RIDGE AND MARSH RESTORATION PROJECT PROJECT NO. BA-0217 <i>DESIGN SURVEY</i> CROSS-SECTION VIEWS PLAQUEMINES PARISH, LA.



LEGEND	
	PRE-CONSTRUCTION SURVEY
	PROJECT BASELINE / ALIGNMENT

REVISED BY:	DATE:



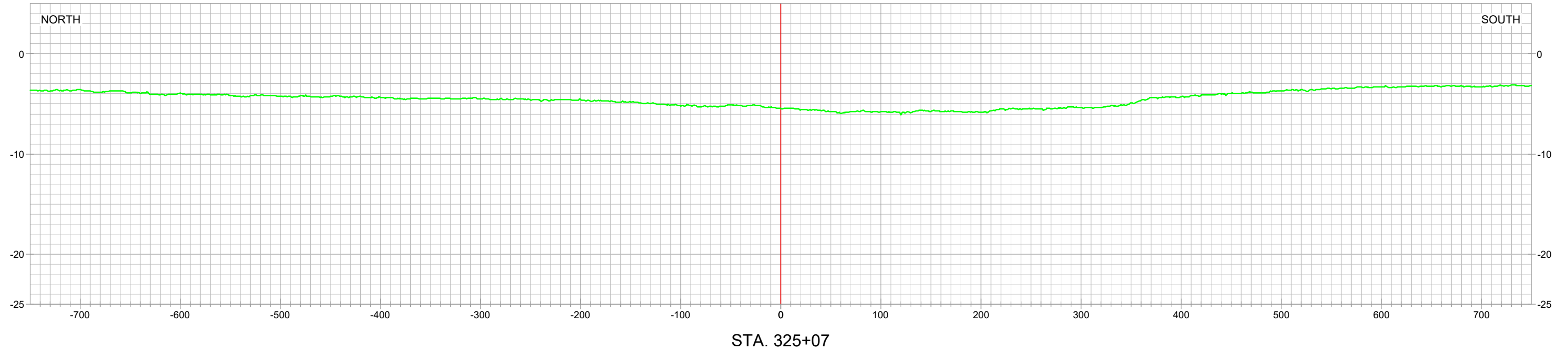
DATE: 07/09/2020	JOB# 2201006
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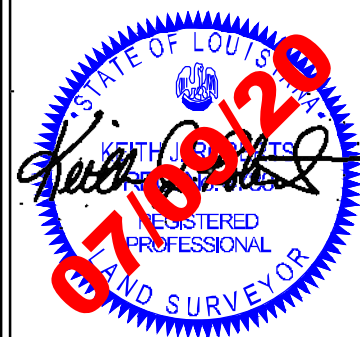
PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583		
FILE: Grand Bayou BA-0217_Design_EQUIPMENT ACCESS_070920.dwg	SHEET: 33 OF 110	

EQUIPMENT ACCESS "A"

GRAND BAYOU RIDGE AND MARSH RESTORATION PROJECT
PROJECT NO. BA-0217
DESIGN SURVEY
CROSS-SECTION VIEWS
PLAQUEMINES PARISH, LA.



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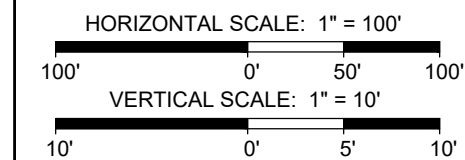


LEGEND

- PRE-CONSTRUCTION SURVEY
- PROJECT BASELINE / ALIGNMENT

REVISED BY:

DATE:



HYDROTERRA



EQUIPMENT ACCESS "A"

GRAND BAYOU RIDGE AND
MARSH RESTORATION PROJECT
PROJECT NO. BA-0217

DESIGN SURVEY

CROSS-SECTION VIEWS
PLAQUEMINES PARISH, LA.

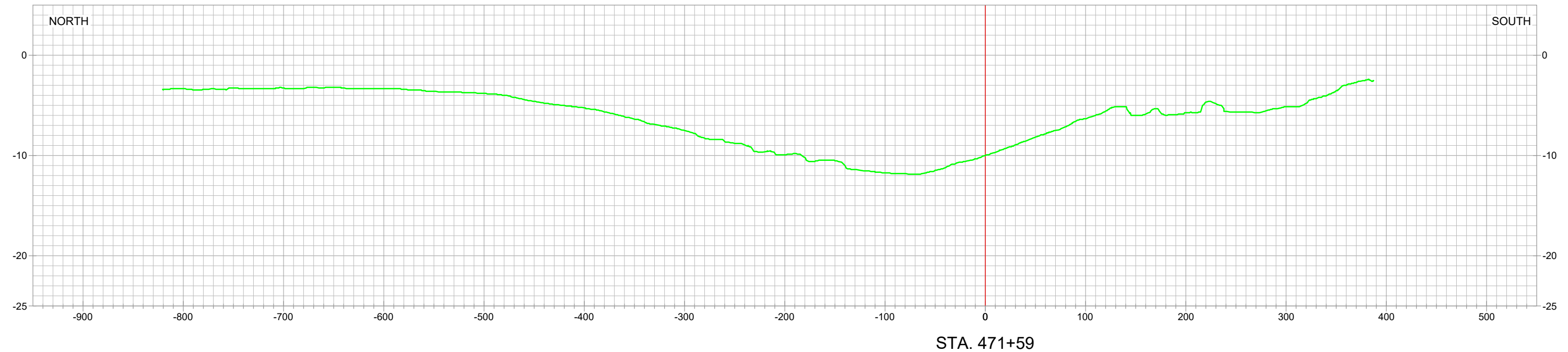
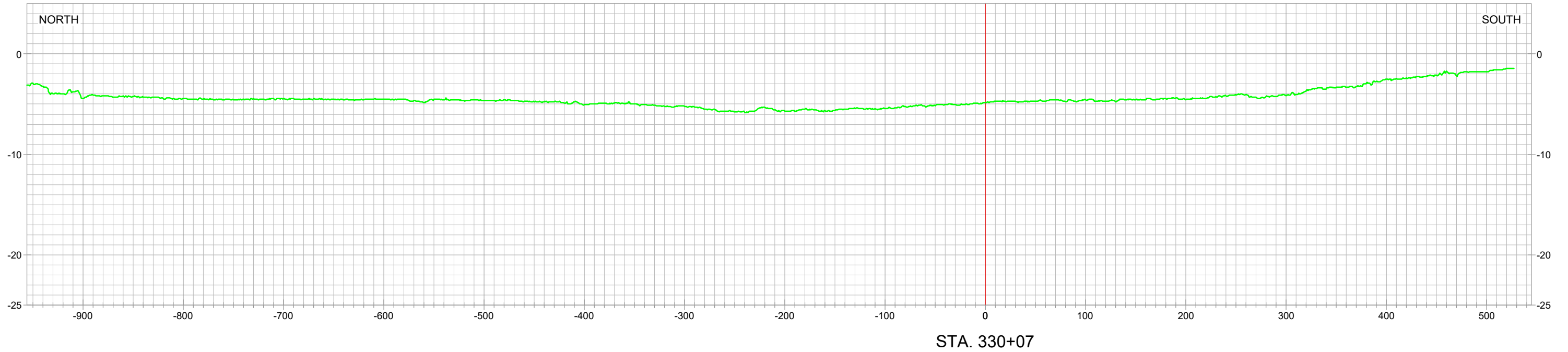
PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

DATE: 07/09/2020

JOB# 2201006

FILE: Grand Bayou BA-0217_Design_EQUIPMENT ACCESS_070920.dwg

SHEET: 34 OF 110



LEGEND	
	PRE-CONSTRUCTION SURVEY
	PROJECT BASELINE / ALIGNMENT

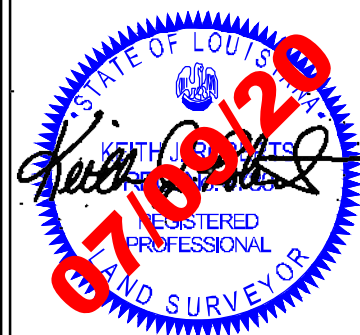
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HORIZONTAL SCALE: 1" = 100'	
VERTICAL SCALE: 1" = 10'	
DATE: 07/09/2020	JOB# 2201006

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583	
FILE: Grand Bayou BA-0217_Design_EQUIPMENT ACCESS_070920.dwg	

EQUIPMENT ACCESS "A"	
GRAND BAYOU RIDGE AND MARSH RESTORATION PROJECT PROJECT NO. BA-0217 <i>DESIGN SURVEY</i> CROSS-SECTION VIEWS PLAQUEMINES PARISH, LA.	
SHEET: 35 OF 110	



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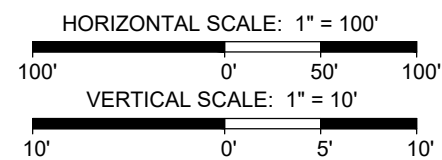


LEGEND

- PRE-CONSTRUCTION SURVEY
- PROJECT BASELINE / ALIGNMENT

REVISED BY:

DATE:



HYDROTERRA



EQUIPMENT ACCESS "A"

GRAND BAYOU RIDGE AND
MARSH RESTORATION PROJECT
PROJECT NO. BA-0217

DESIGN SURVEY

CROSS-SECTION VIEWS
PLAQUEMINES PARISH, LA.

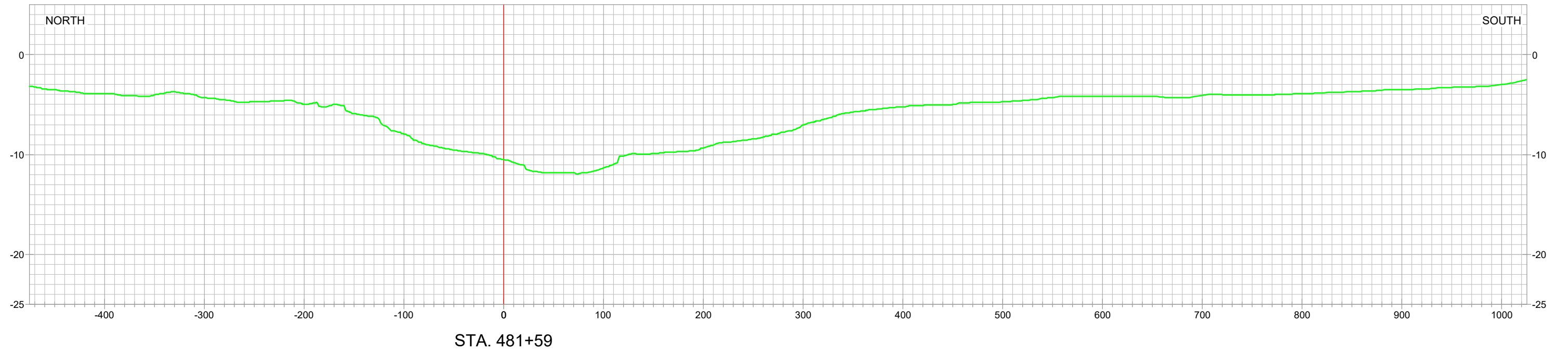
PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

DATE: 07/09/2020

JOB# 2201006

FILE: Grand Bayou BA-0217_Design_EQUIPMENT ACCESS_070920.dwg

SHEET: 36 OF 110



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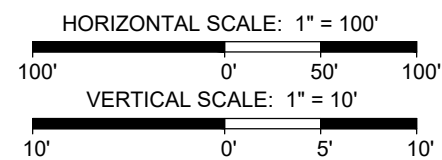


LEGEND

- PRE-CONSTRUCTION SURVEY
- PROJECT BASELINE / ALIGNMENT

REVISED BY:

DATE:



HYDROTERRA



EQUIPMENT ACCESS "A"

GRAND BAYOU RIDGE AND
MARSH RESTORATION PROJECT
PROJECT NO. BA-0217

DESIGN SURVEY

CROSS-SECTION VIEWS
PLAQUEMINES PARISH, LA.

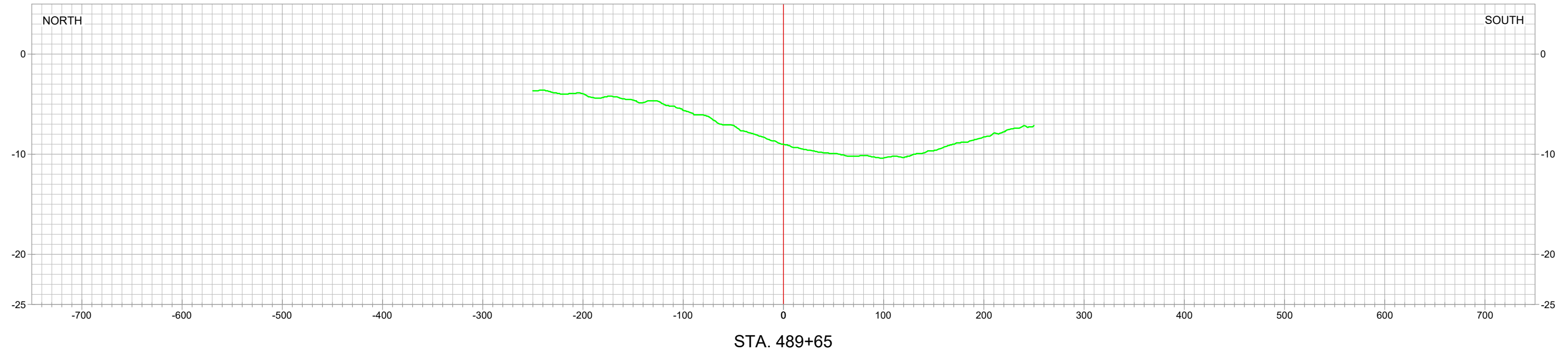
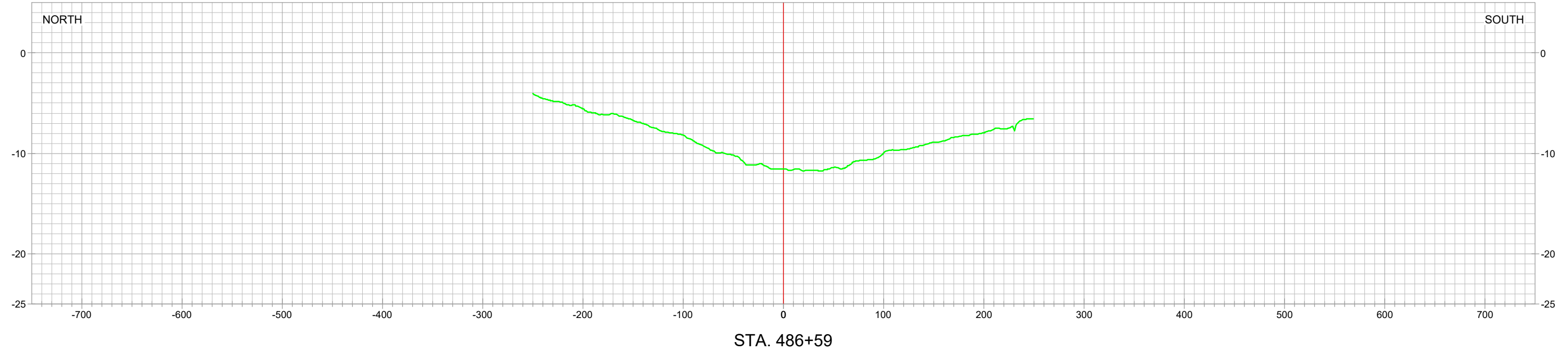
PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

DATE: 07/09/2020

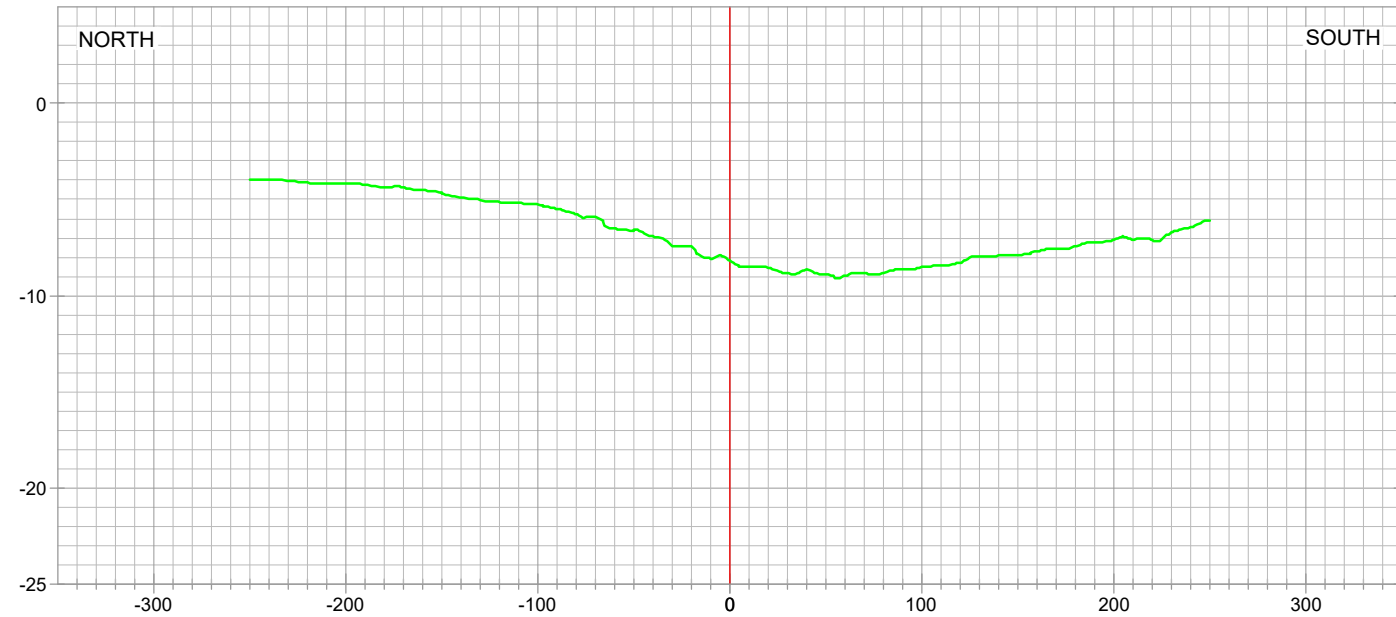
JOB# 2201006

FILE: Grand Bayou BA-0217_Design_EQUIPMENT ACCESS_070920.dwg

SHEET: 37 OF 110



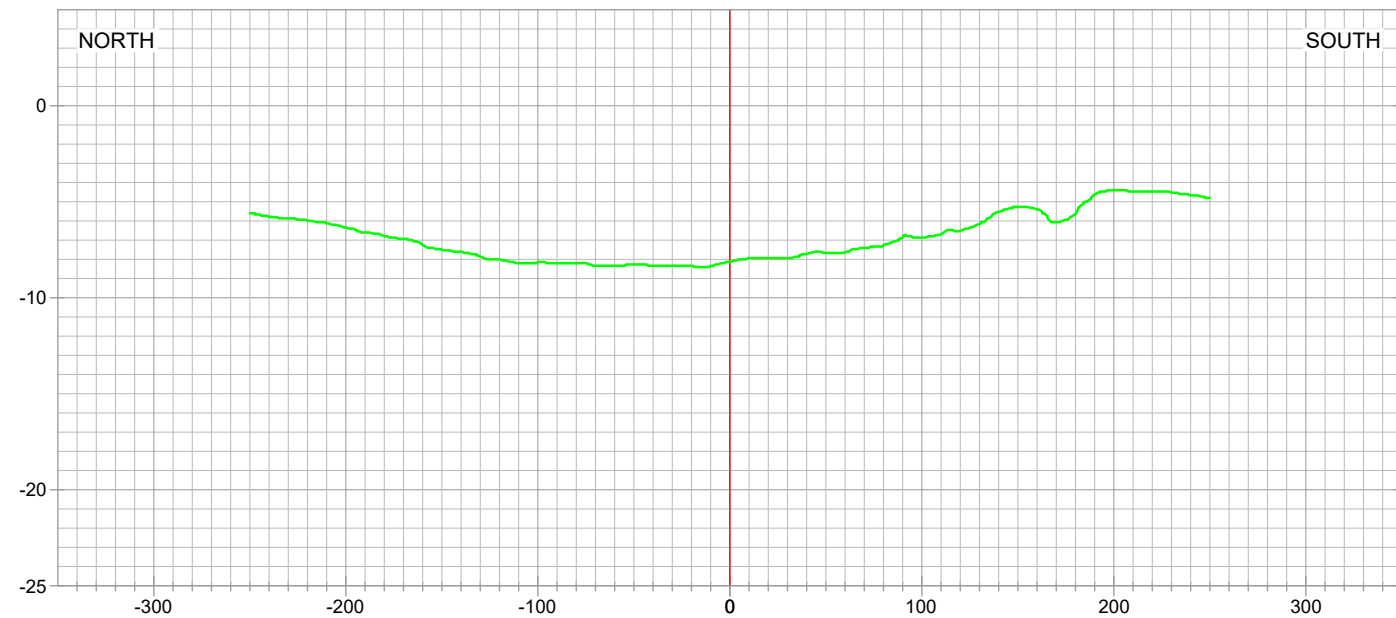
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	PRE-CONSTRUCTION SURVEY PROJECT BASELINE / ALIGNMENT					GRAND BAYOU RIDGE AND MARSH RESTORATION PROJECT PROJECT NO. BA-0217 <i>DESIGN SURVEY</i> CROSS-SECTION VIEWS PLAQUEMINES PARISH, LA.	
		HORIZONTAL SCALE: 1" = 100'					
		VERTICAL SCALE: 1" = 10'					
	DATE: 07/09/2020	JOB# 2201006	FILE: Grand Bayou BA-0217_Design_EQUIPMENT ACCESS_070920.dwg		SHEET: 38 OF 110		



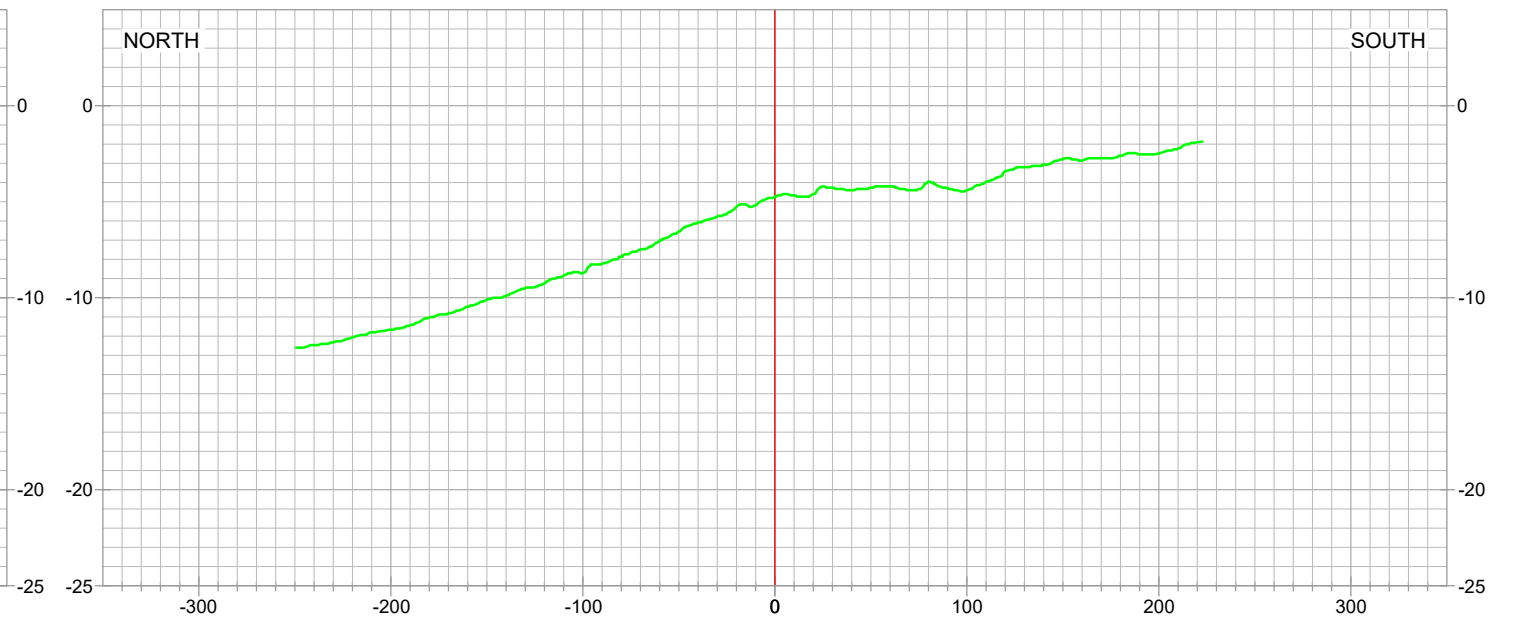
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STA. 504+65



STA. 499+65



STA. 509+65

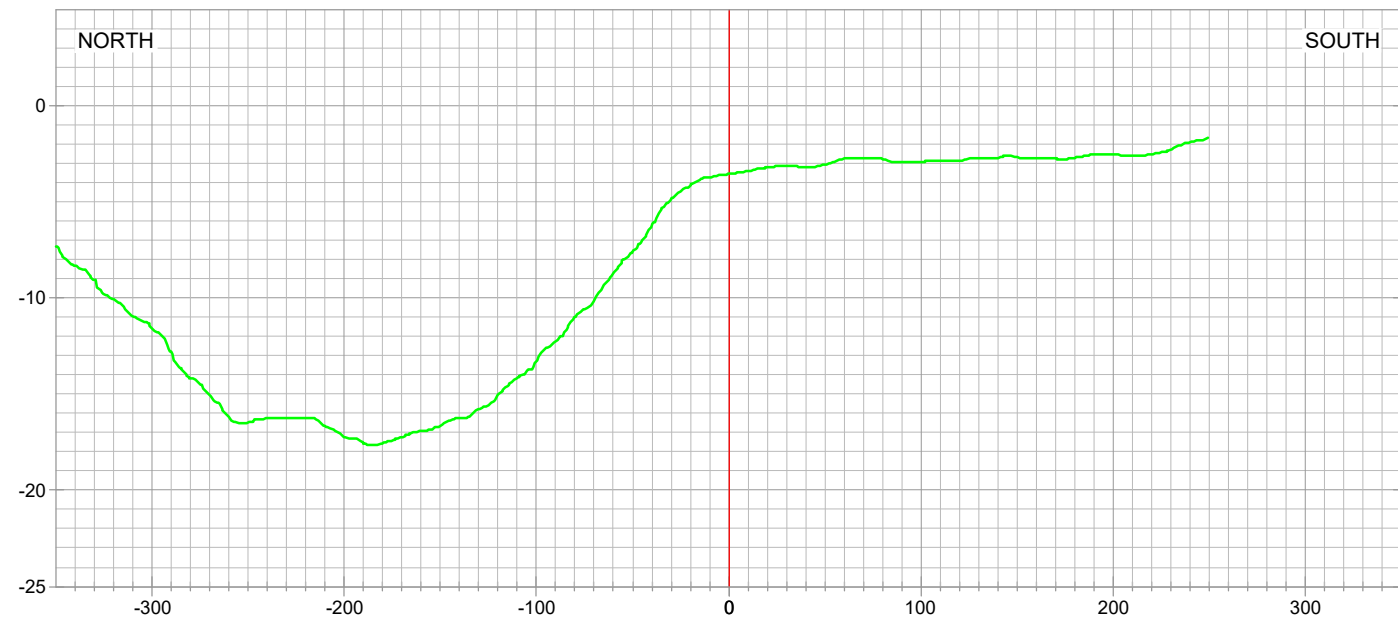


LEGEND	
	PRE-CONSTRUCTION SURVEY
	PROJECT BASELINE / ALIGNMENT

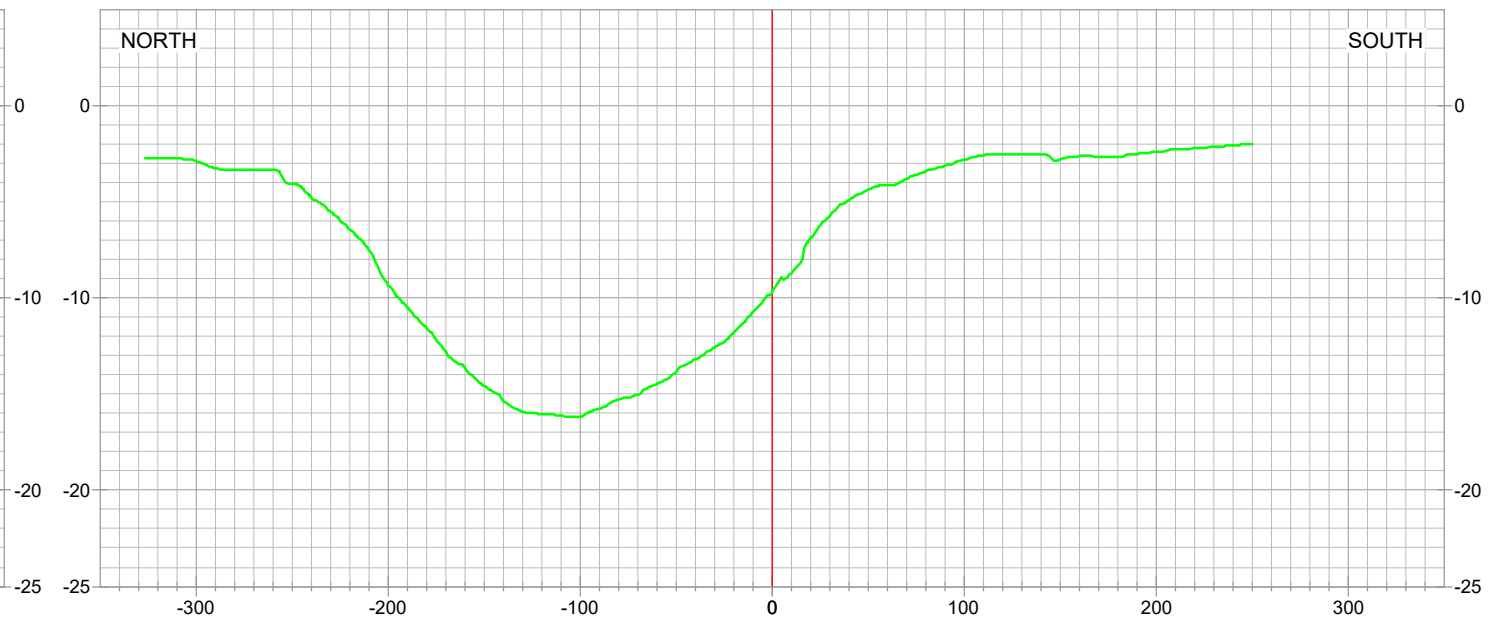
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VERTICAL SCALE: 1" = 10'	
DATE: 07/09/2020	JOB# 2201006

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583	
FILE: Grand Bayou BA-0217_Design_EQUIPMENT ACCESS_070920.dwg	

EQUIPMENT ACCESS "A"	
GRAND BAYOU RIDGE AND MARSH RESTORATION PROJECT PROJECT NO. BA-0217	
DESIGN SURVEY	
CROSS-SECTION VIEWS PLAQUEMINES PARISH, LA.	
SHEET: 39 OF 110	



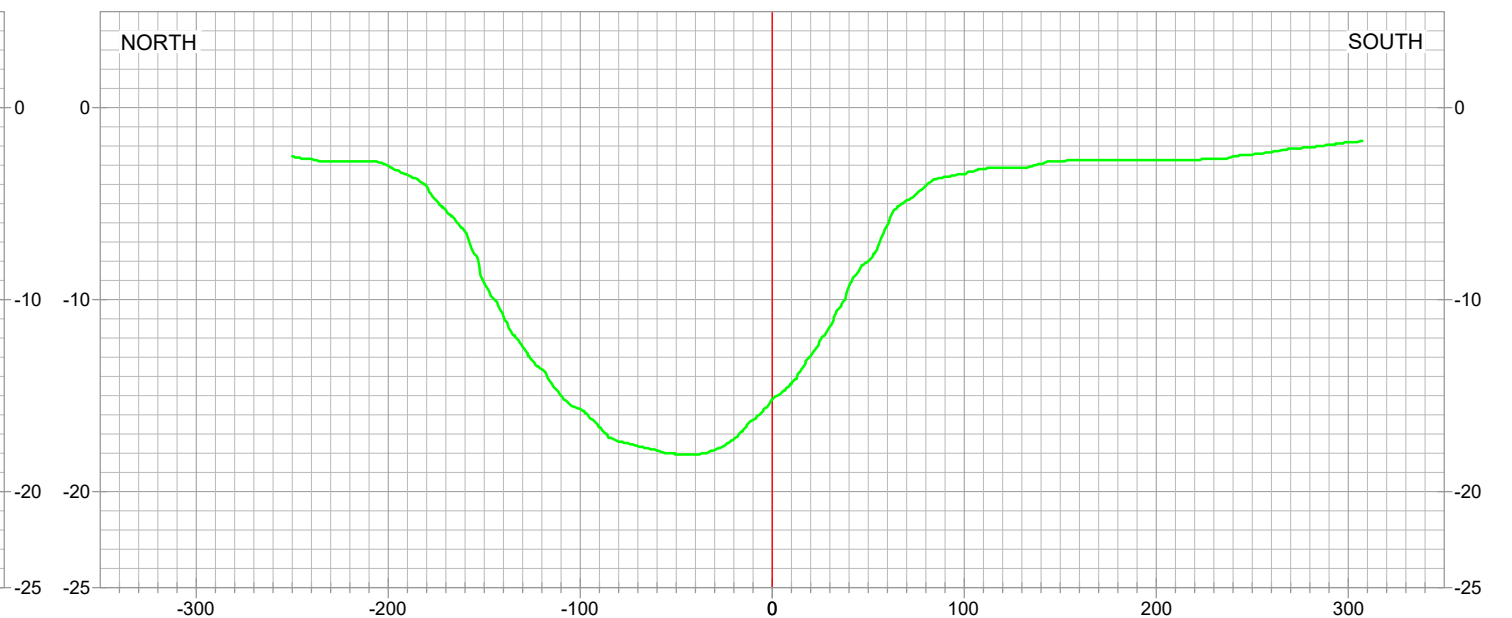
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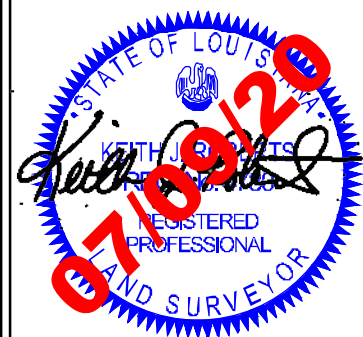
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STA. 519+65



STA. 528+27

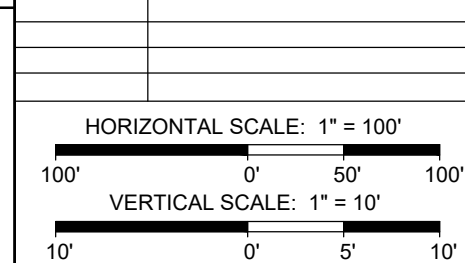


LEGEND

- PRE-CONSTRUCTION SURVEY
- PROJECT BASELINE / ALIGNMENT

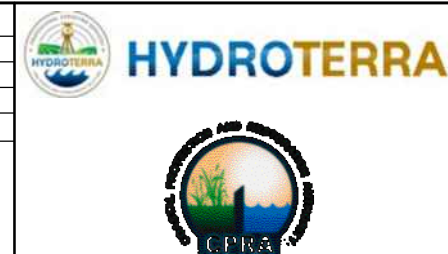
REVISED BY:

DATE:



DATE: 07/09/2020

JOB# 2201006



PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

FILE: Grand Bayou BA-0217_Design_EQUIPMENT ACCESS_070920.dwg

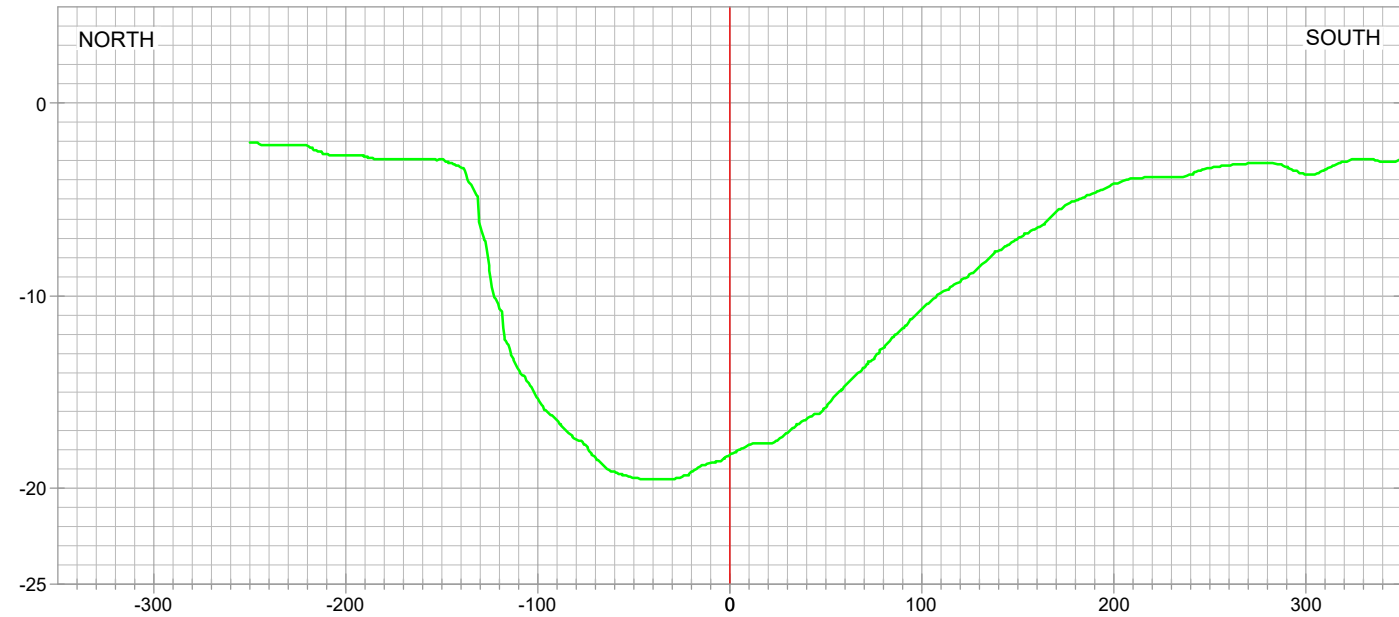
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GRAND BAYOU RIDGE AND
MARSH RESTORATION PROJECT
PROJECT NO. BA-0217

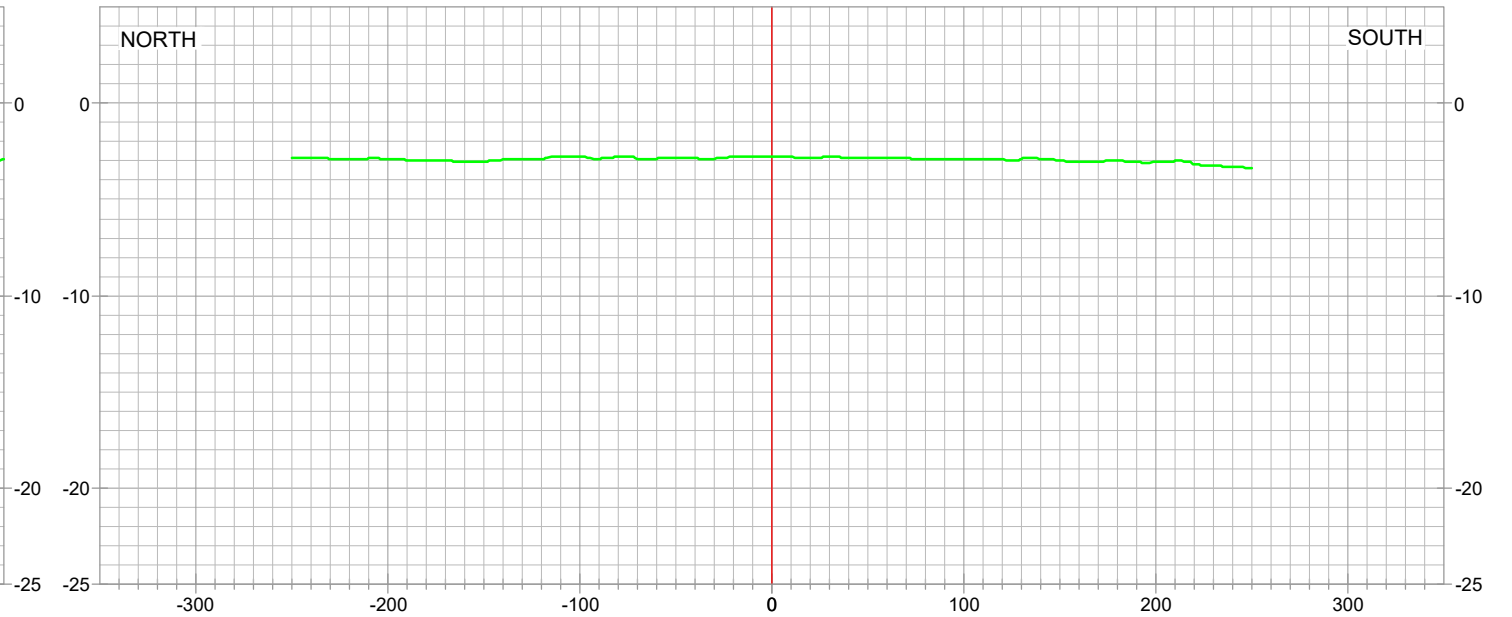
DESIGN SURVEY

CROSS-SECTION VIEWS
PLAQUEMINES PARISH, LA.

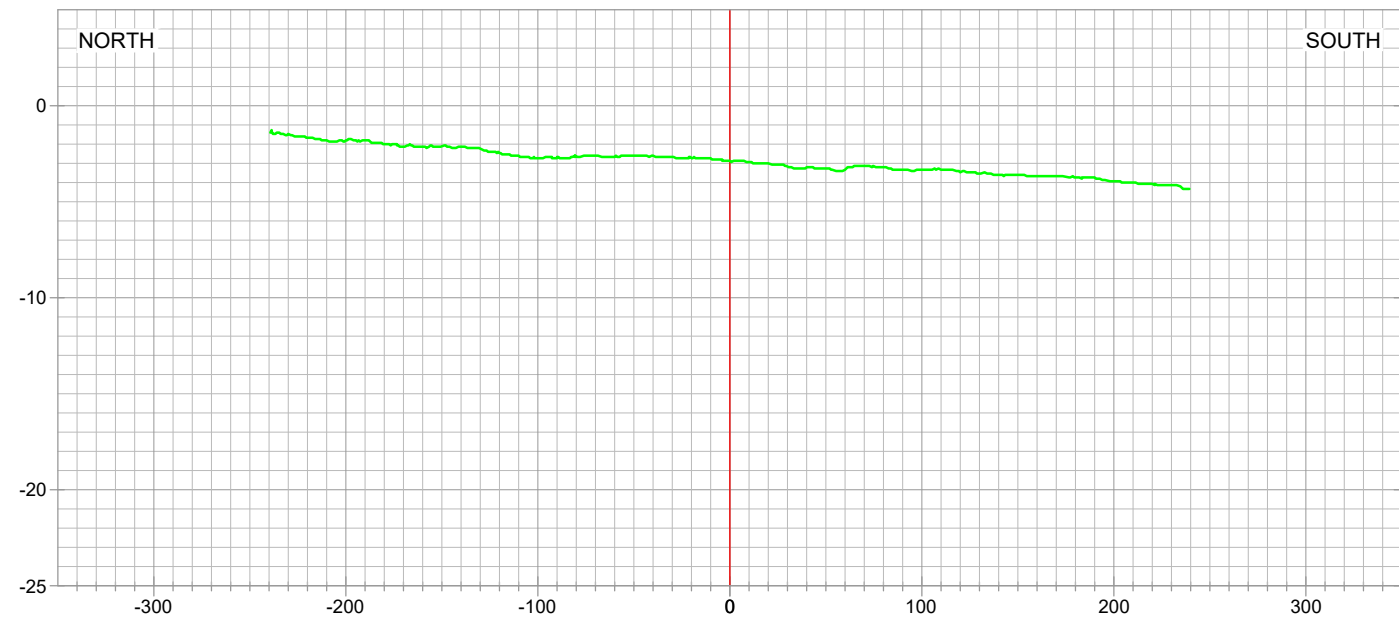
SHEET: 40 OF 110



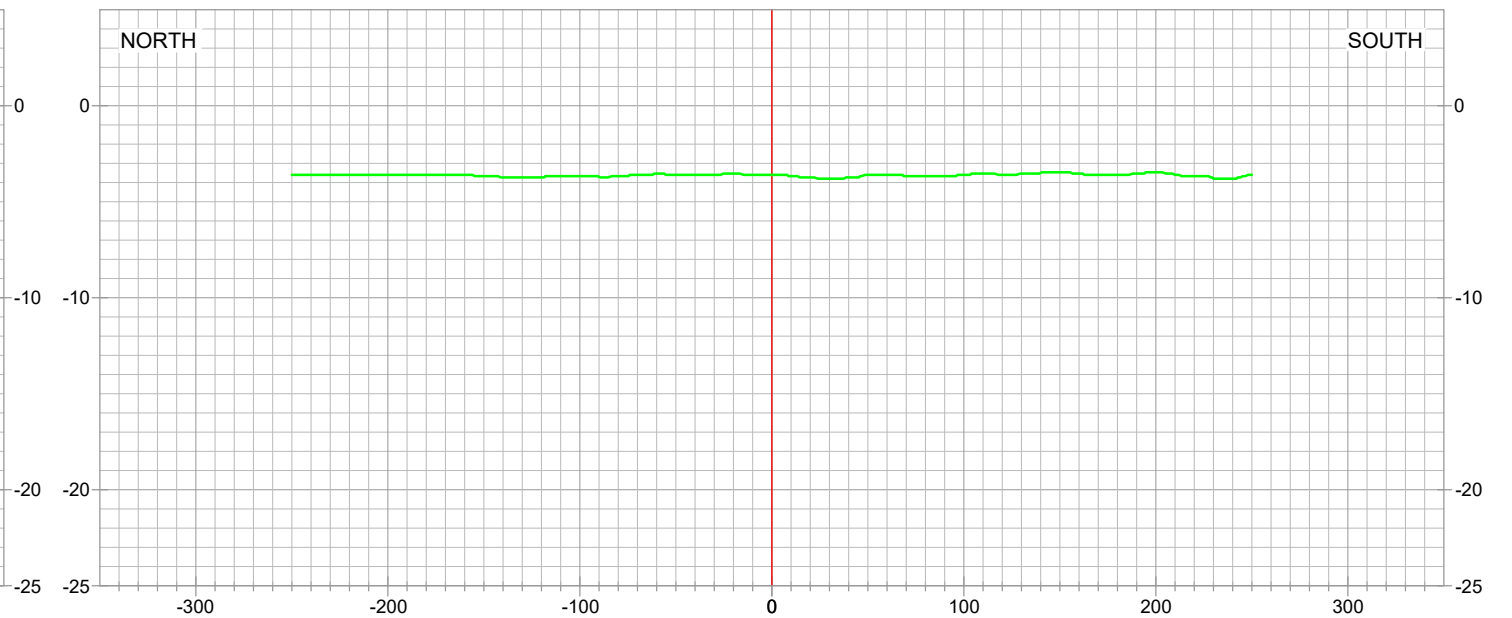
STA. 532+91



STA. 540+29



STA. 536+60



STA. 545+29

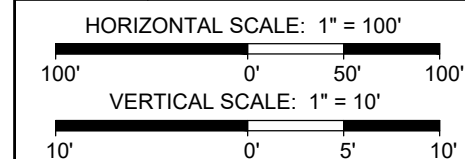


LEGEND

- PRE-CONSTRUCTION SURVEY
- PROJECT BASELINE / ALIGNMENT

REVISED BY:

DATE:



DATE: 07/09/2020

JOB# 2201006



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FILE: Grand Bayou BA-0217_Design_EQUIPMENT ACCESS_070920.dwg

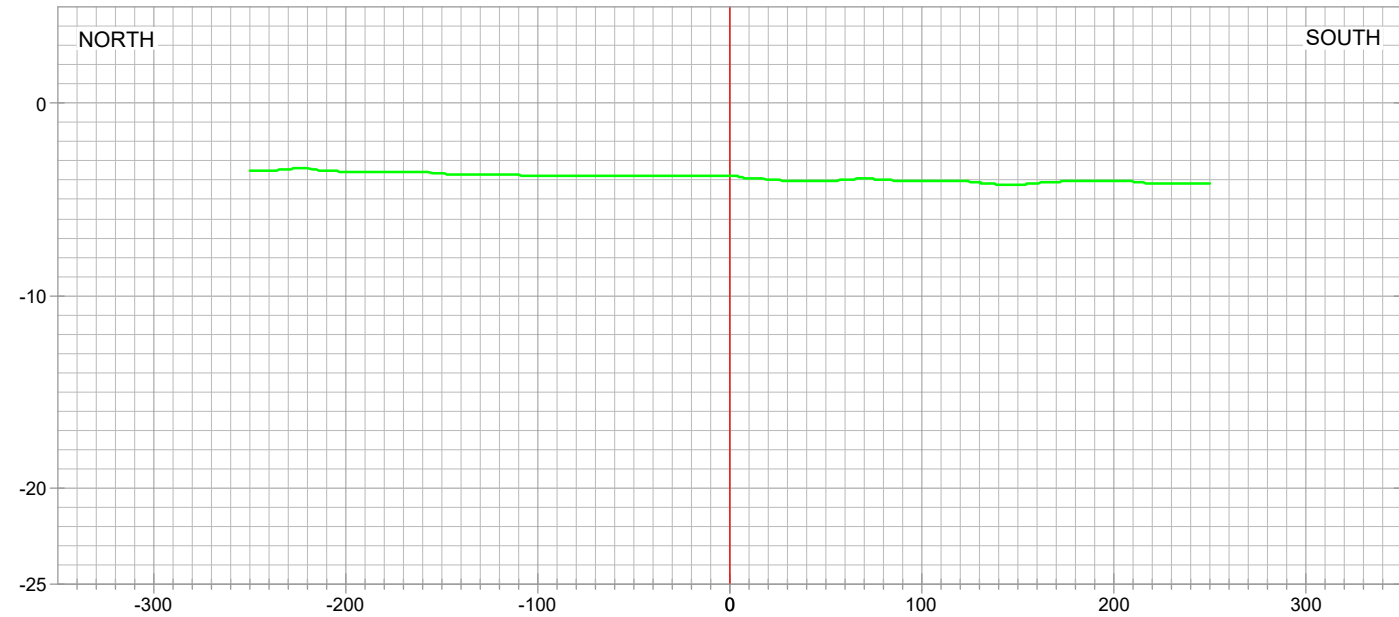
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GRAND BAYOU RIDGE AND
MARSH RESTORATION PROJECT
PROJECT NO. BA-0217

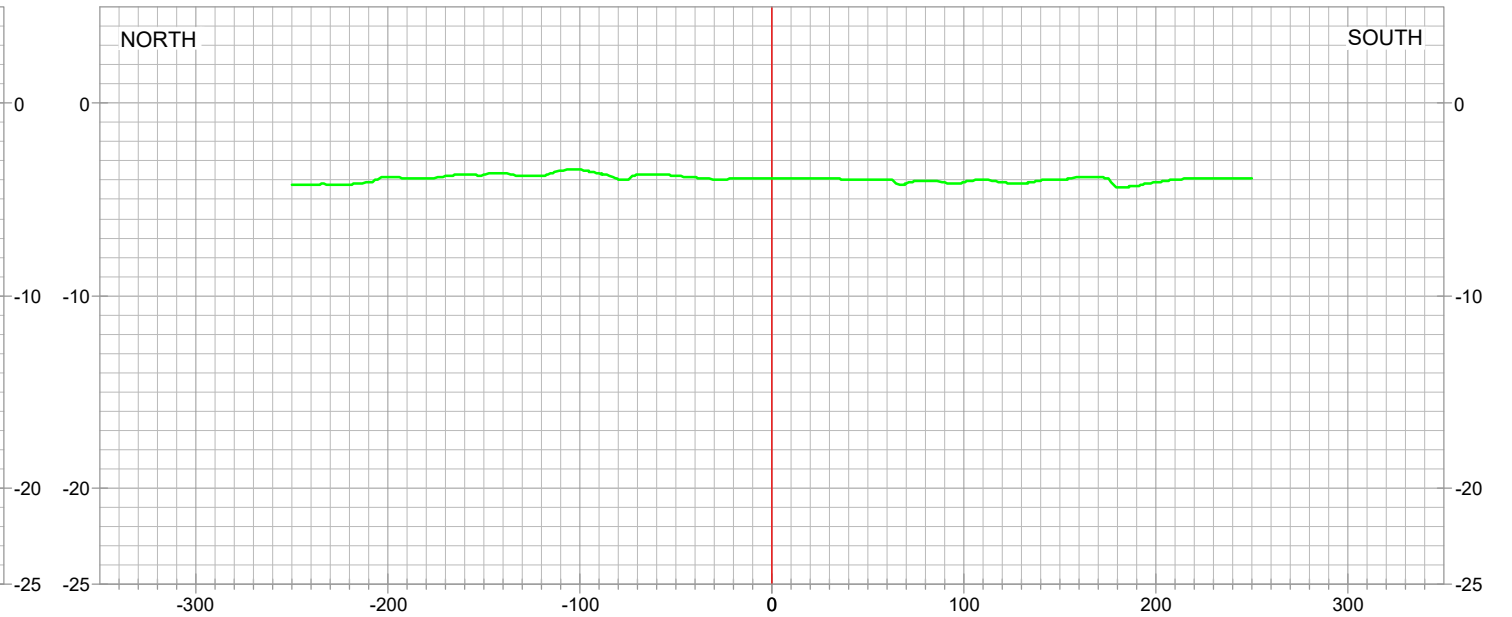
DESIGN SURVEY

CROSS-SECTION VIEWS
PLAQUEMINES PARISH, LA.

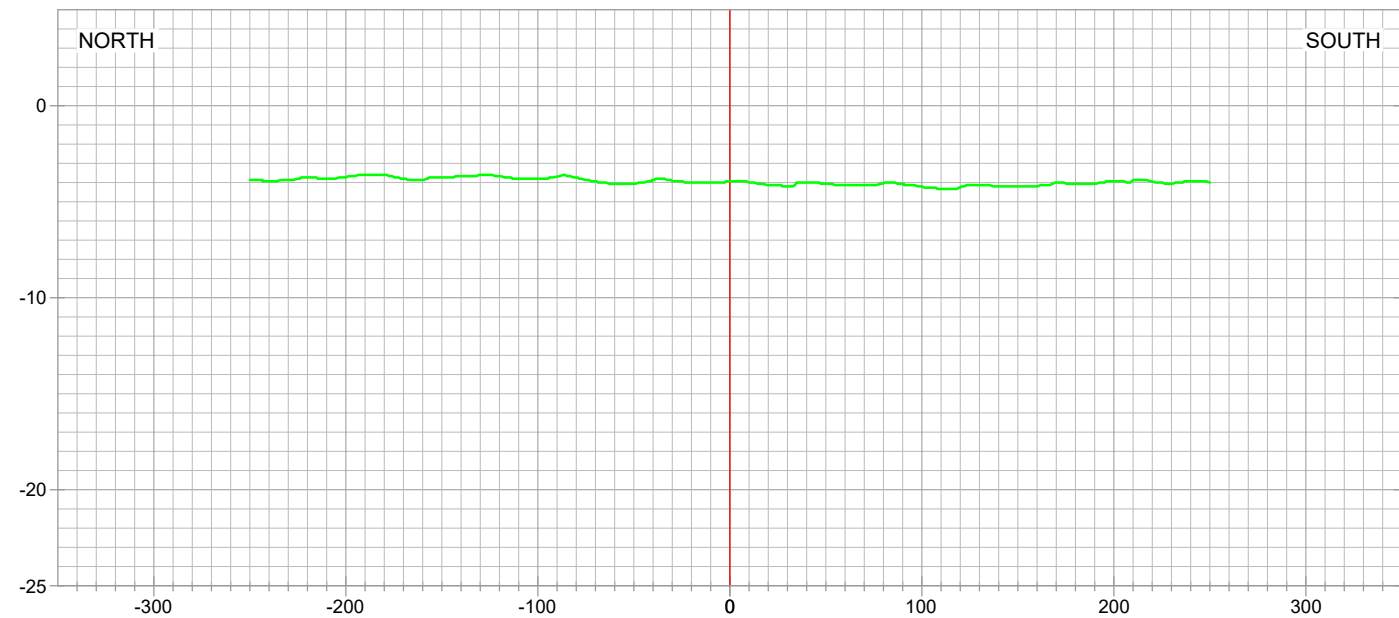
SHEET: 41 OF 110



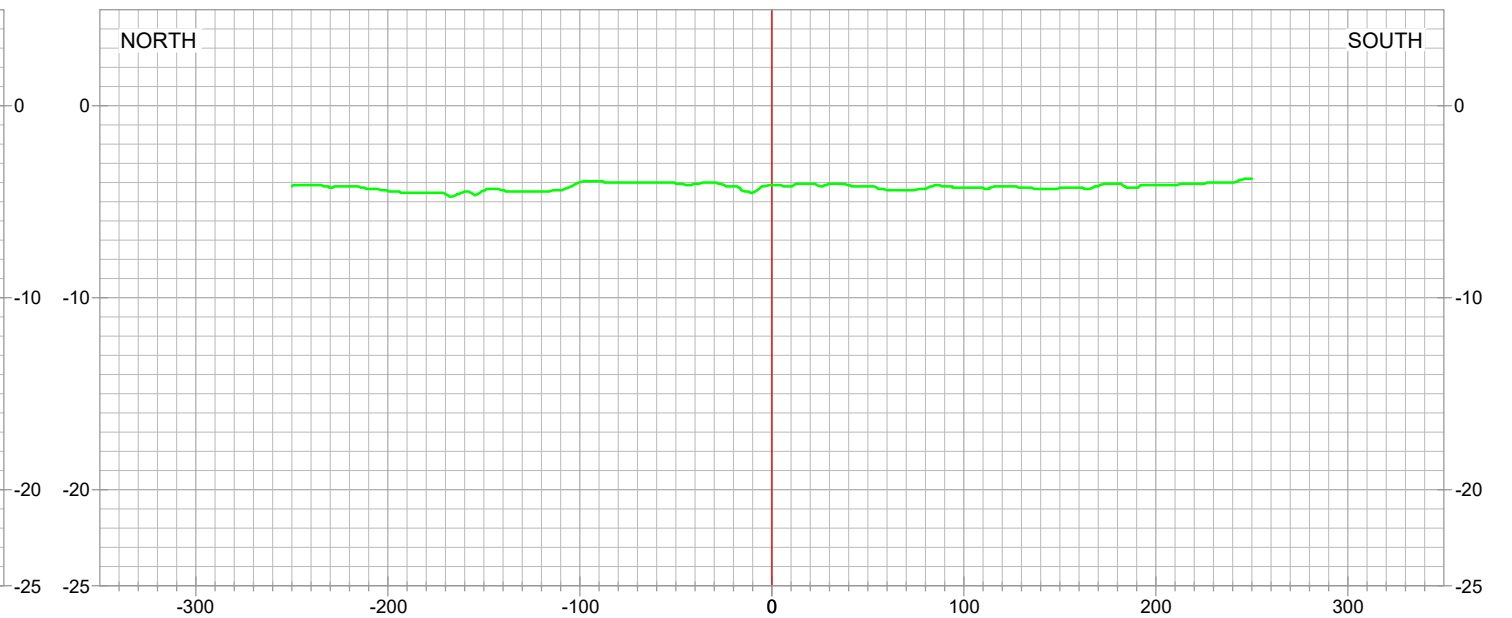
STA. 550+29



STA. 560+29



STA. 555+29



STA. 565+29

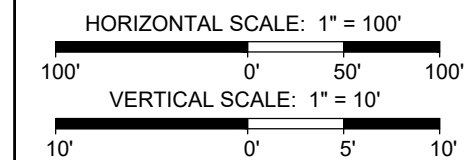


LEGEND

- PRE-CONSTRUCTION SURVEY
- PROJECT BASELINE / ALIGNMENT

REVISED BY:

DATE:



DATE: 07/09/2020

JOB# 2201006



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FILE: Grand Bayou BA-0217_Design_EQUIPMENT ACCESS_070920.dwg

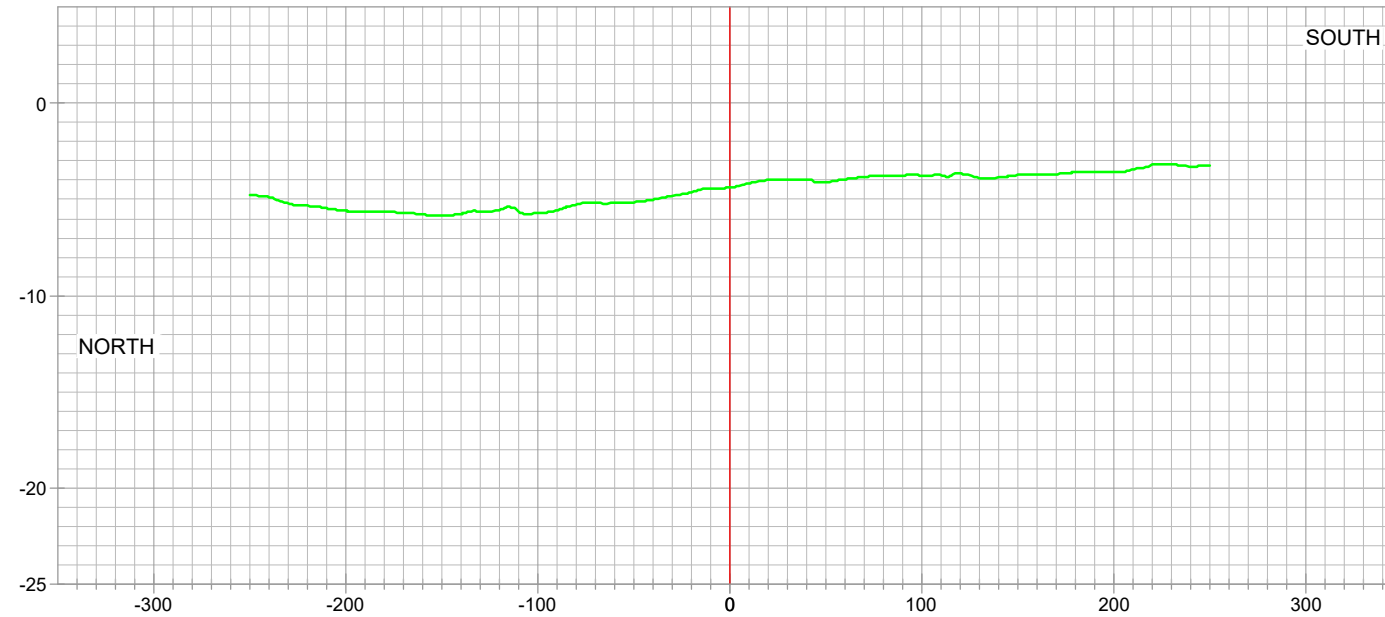
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GRAND BAYOU RIDGE AND
MARSH RESTORATION PROJECT
PROJECT NO. BA-0217

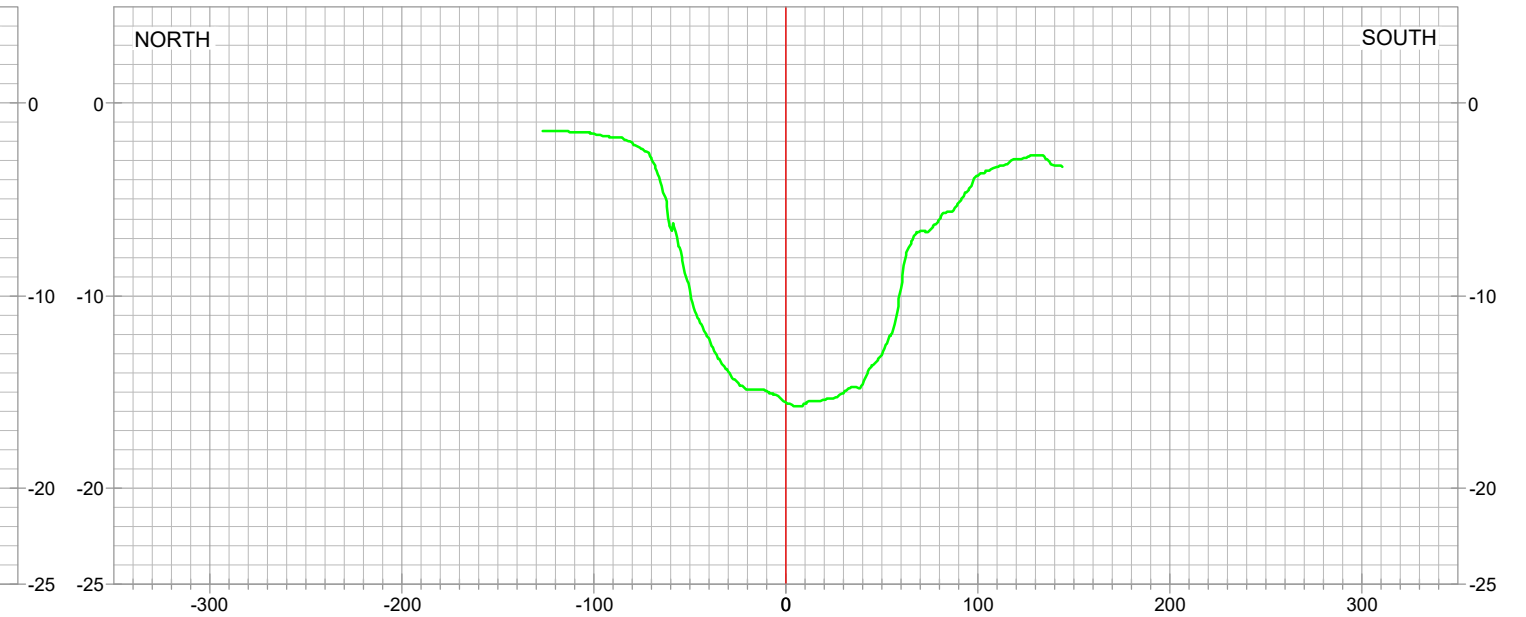
DESIGN SURVEY

CROSS-SECTION VIEWS
PLAQUEMINES PARISH, LA.

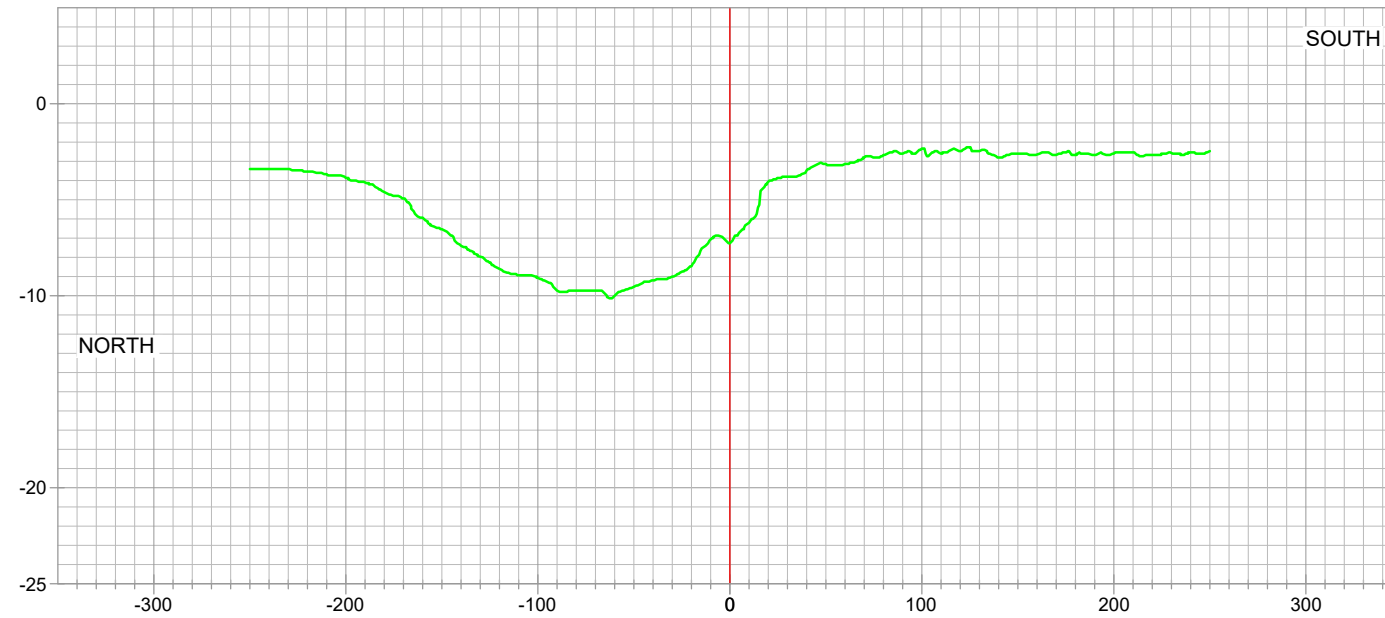
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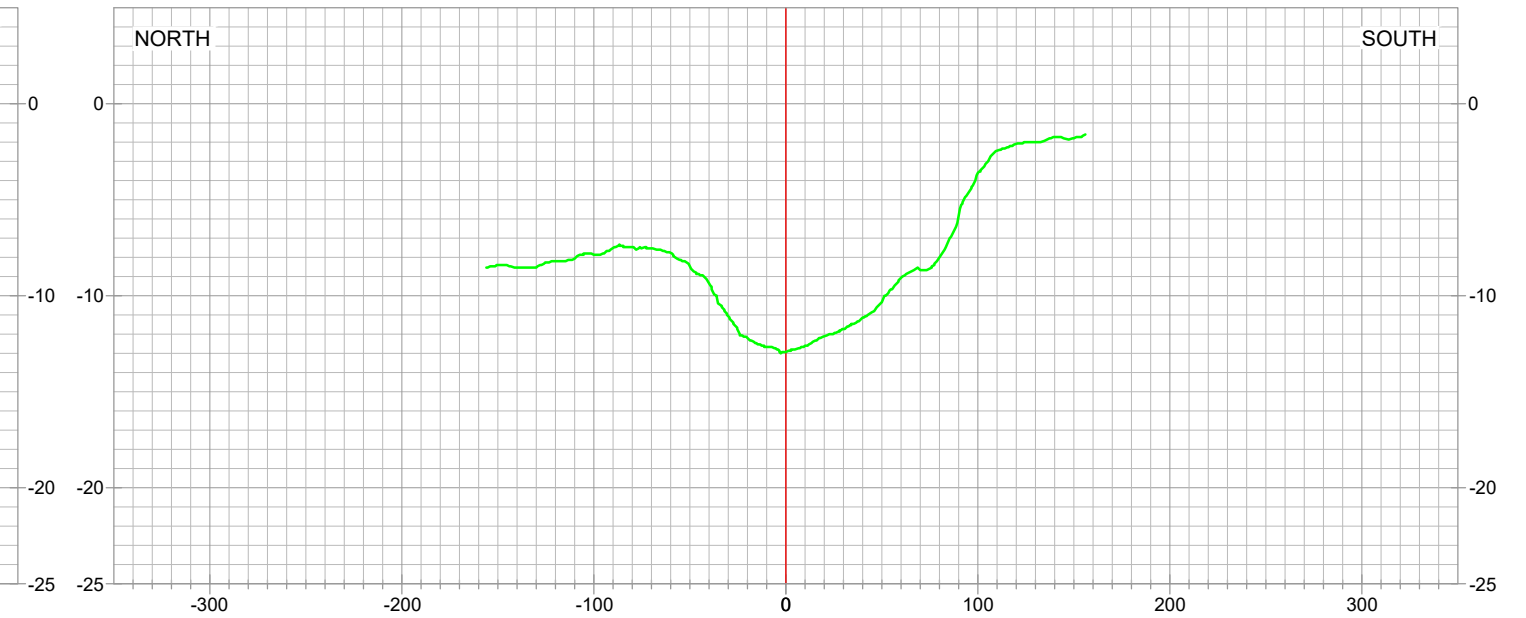
STA. 570+29



STA. 580+29



STA. 575+29



STA. 584+45

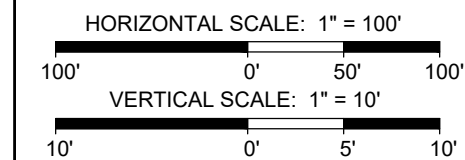


LEGEND

- PRE-CONSTRUCTION SURVEY
- PROJECT BASELINE / ALIGNMENT

REVISED BY:

DATE:



DATE: 07/09/2020

JOB# 2201006



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FILE: Grand Bayou BA-0217_Design_EQUIPMENT ACCESS_070920.dwg

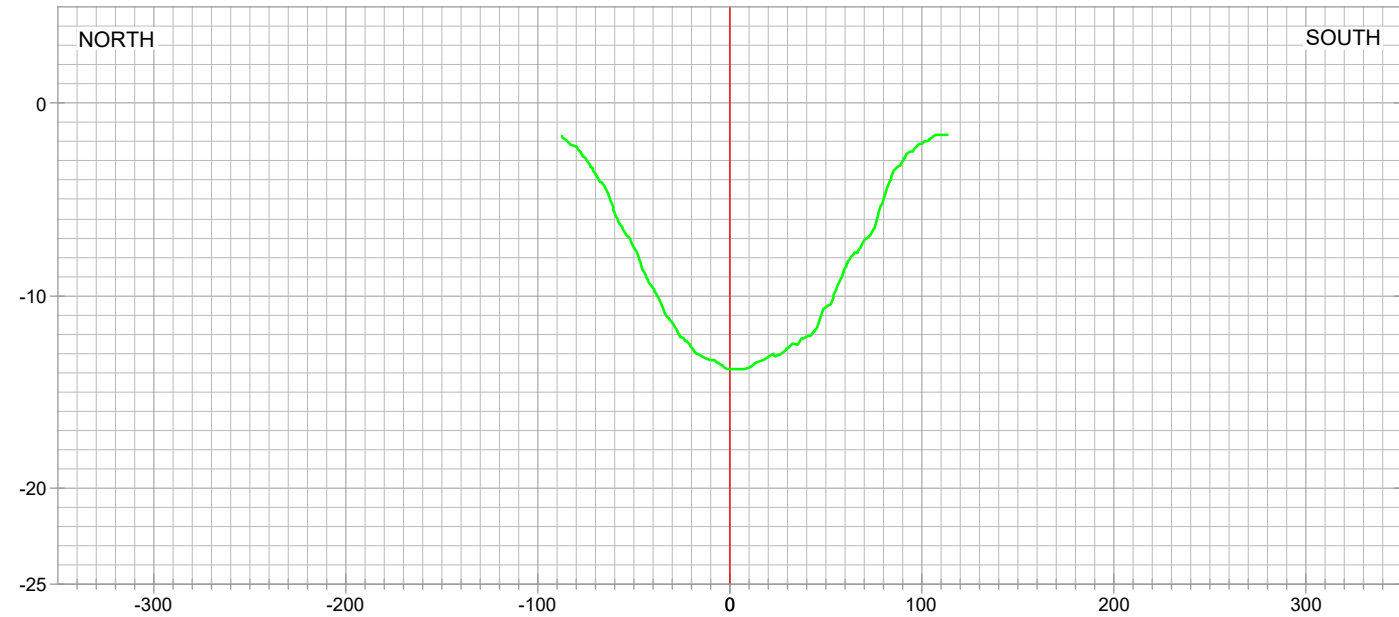
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**GRAND BAYOU RIDGE AND
MARSH RESTORATION PROJECT
PROJECT NO. BA-0217**

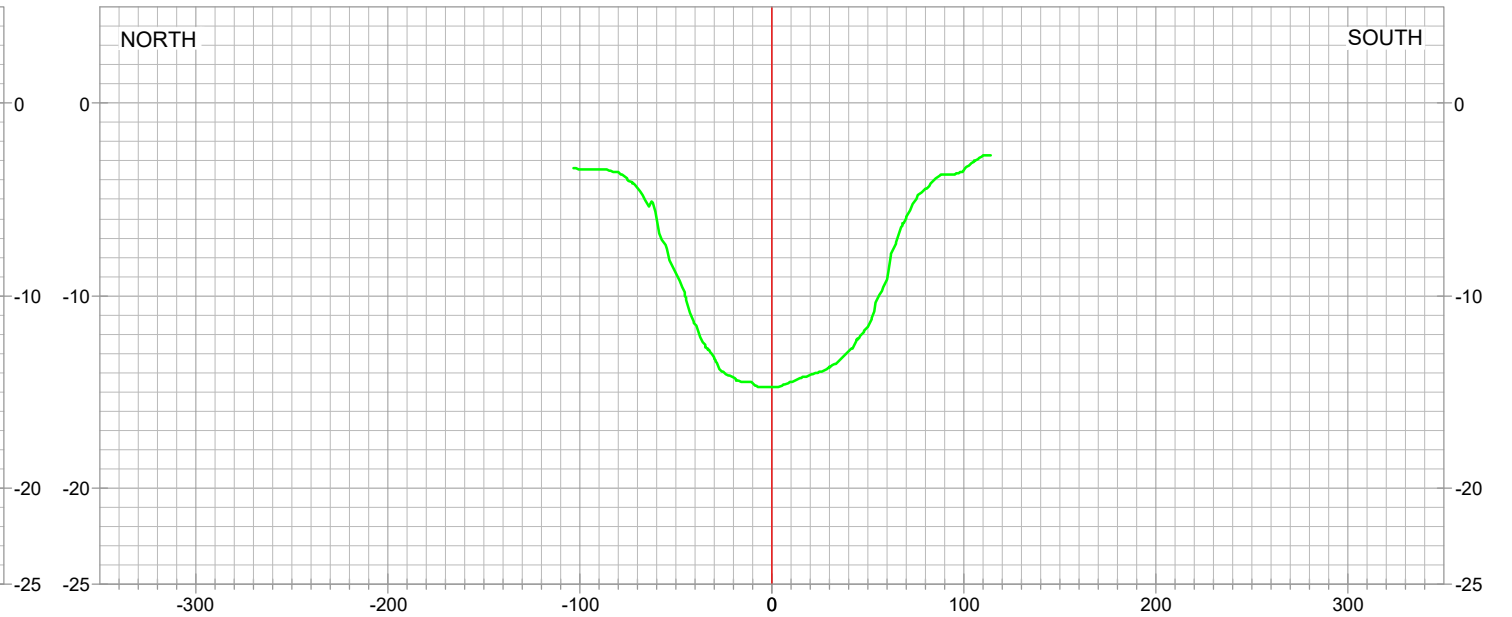
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CROSS-SECTION VIEWS
PLAQUEMINES PARISH, LA.

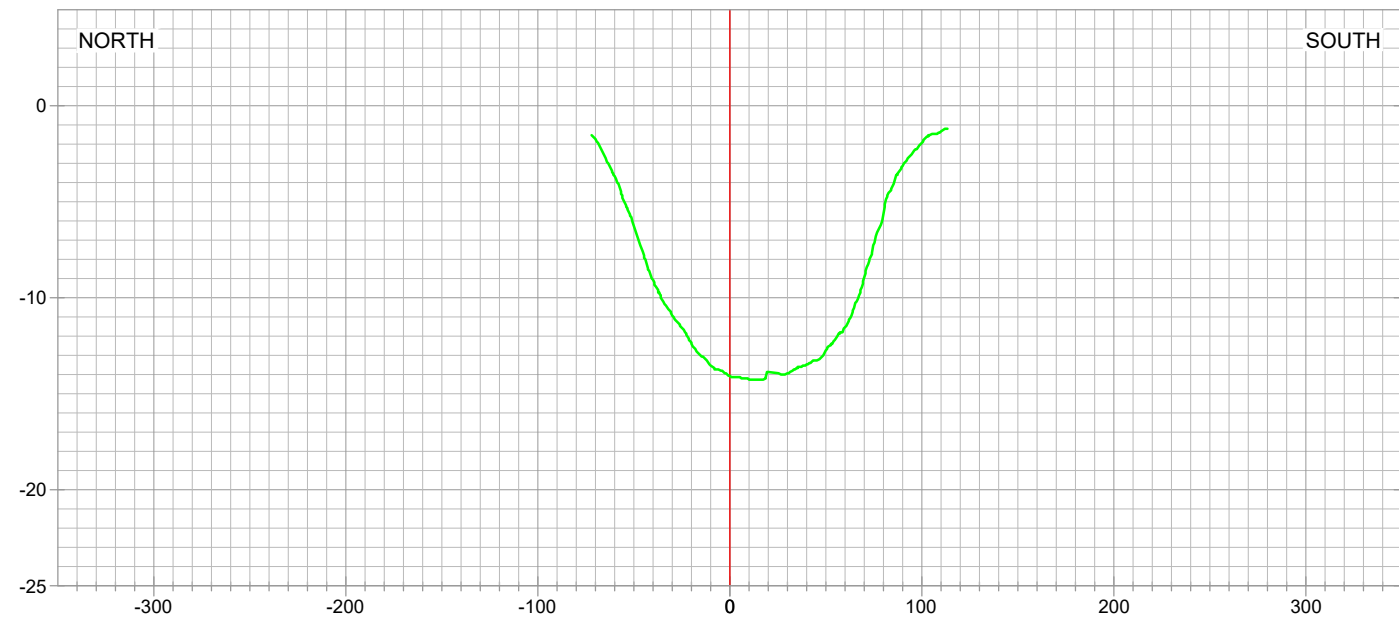
SHEET: 43 OF 110



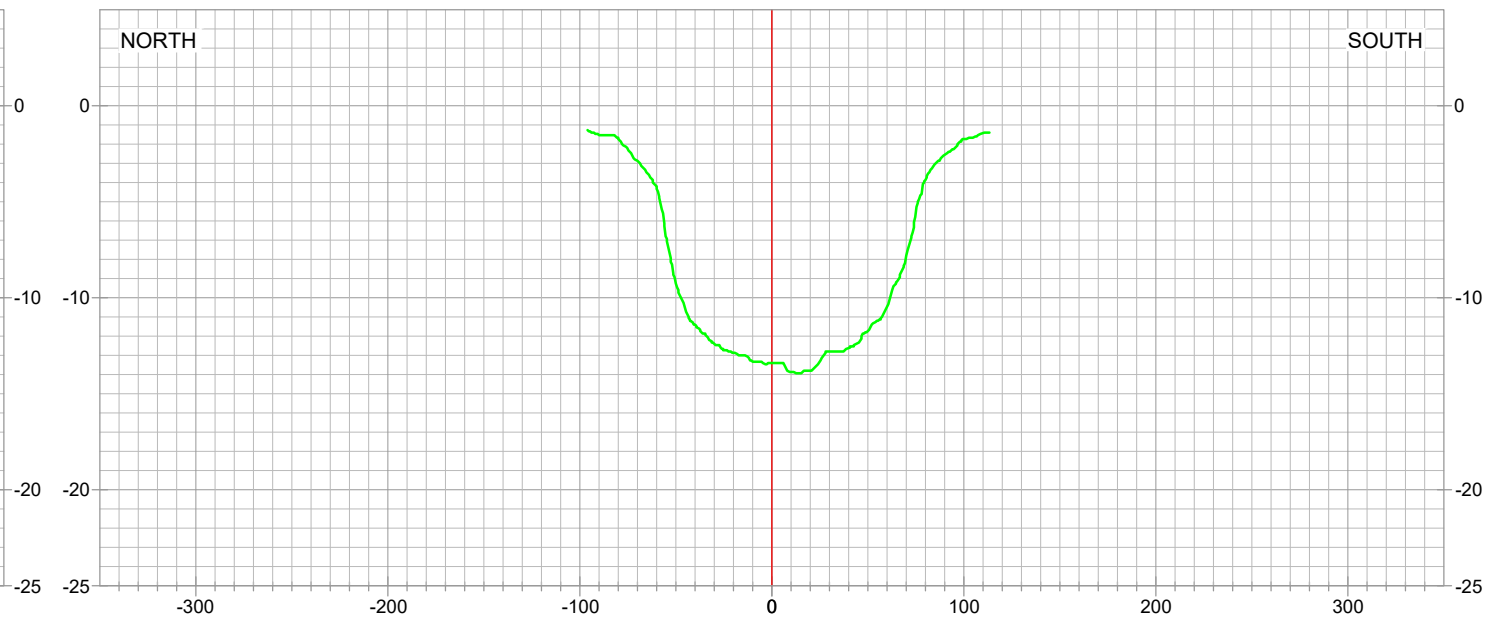
STA. 589+45



STA. 599+45



STA. 594+45



STA. 604+45



LEGEND

-  PRE-CONSTRUCTION SURVEY
-  PROJECT BASELINE / ALIGNMENT

REVISED BY:

DATE:

HORIZONTAL SCALE: 1" = 100'

100' 0' 50' 100'

VERTICAL SCALE: 1" = 10'

10' 0' 5' 10'

DATE: 07/09/2020

JOB# 2201006



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FILE: Grand Bayou BA-0217_Design_EQUIPMENT ACCESS_070920.dwg

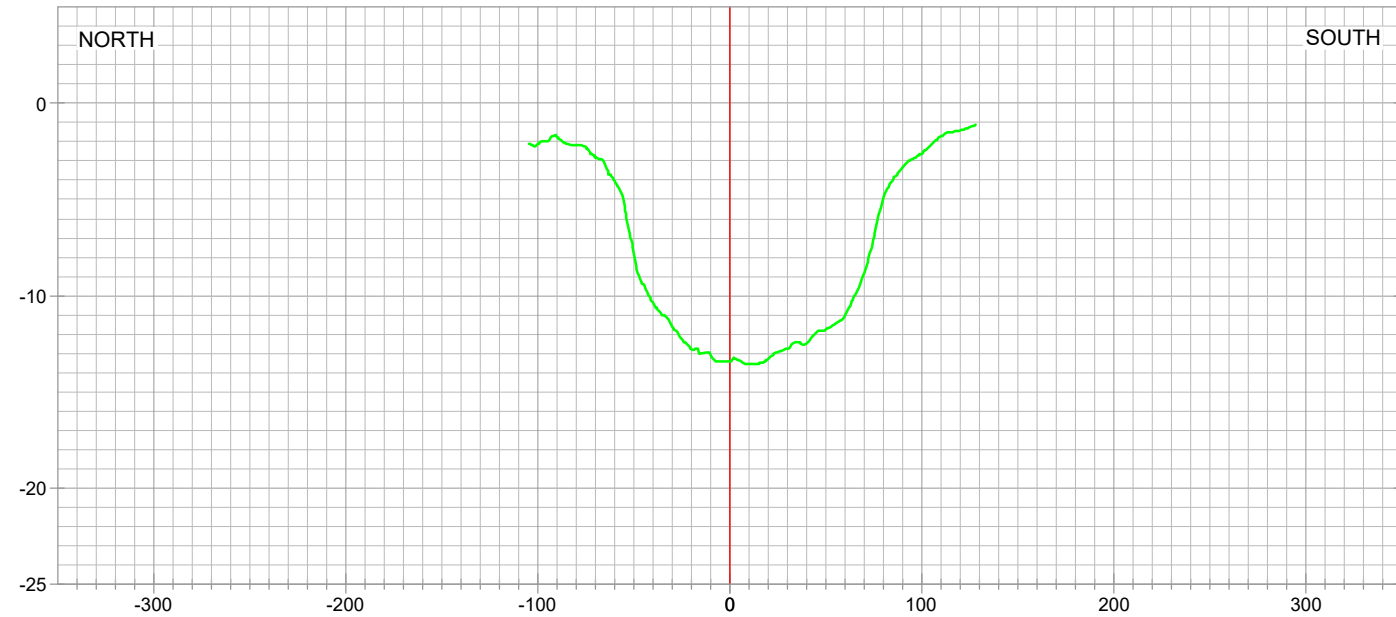
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GRAND BAYOU RIDGE AND
MARSH RESTORATION PROJECT
PROJECT NO. BA-0217

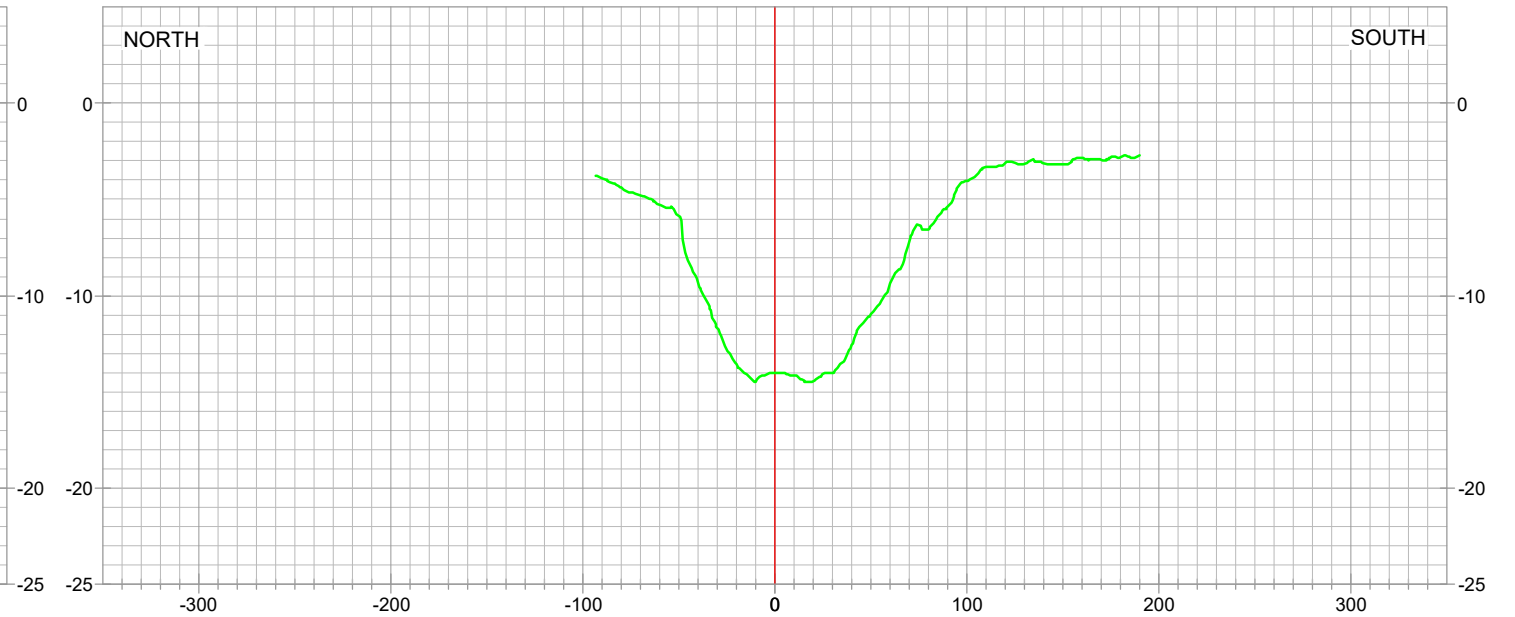
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CROSS-SECTION VIEWS
PLAQUEMINES PARISH, LA.

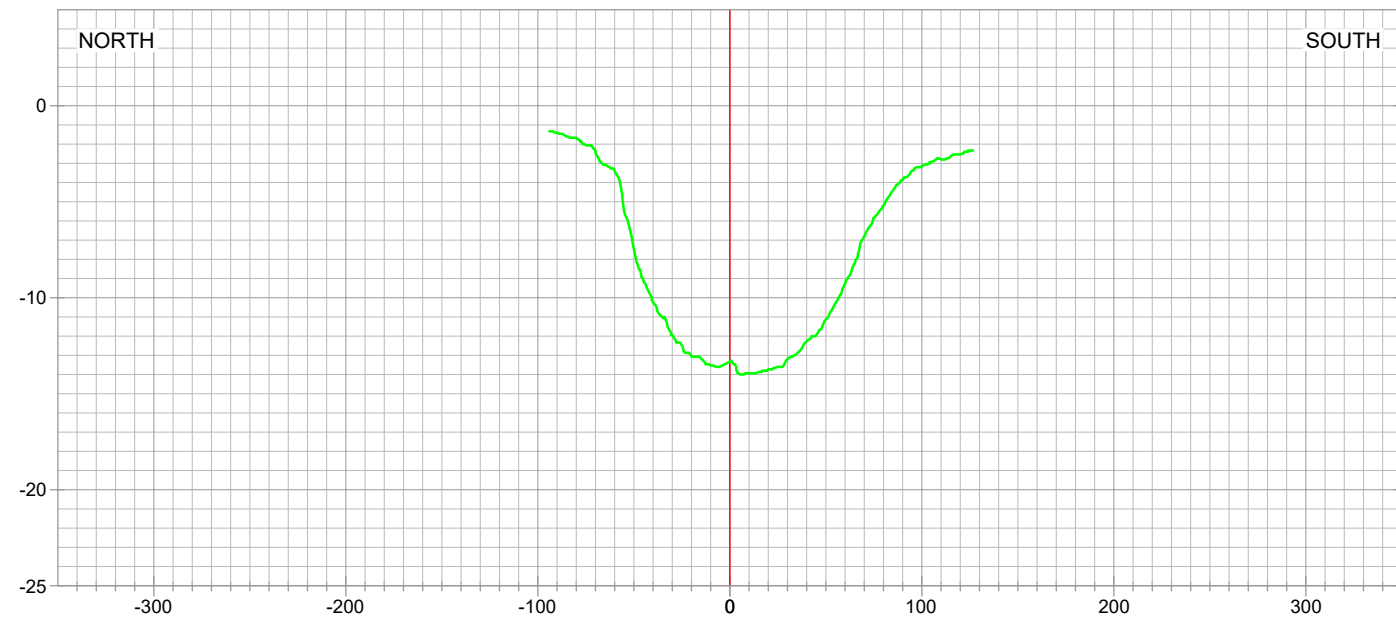
SHEET: 44 OF 110



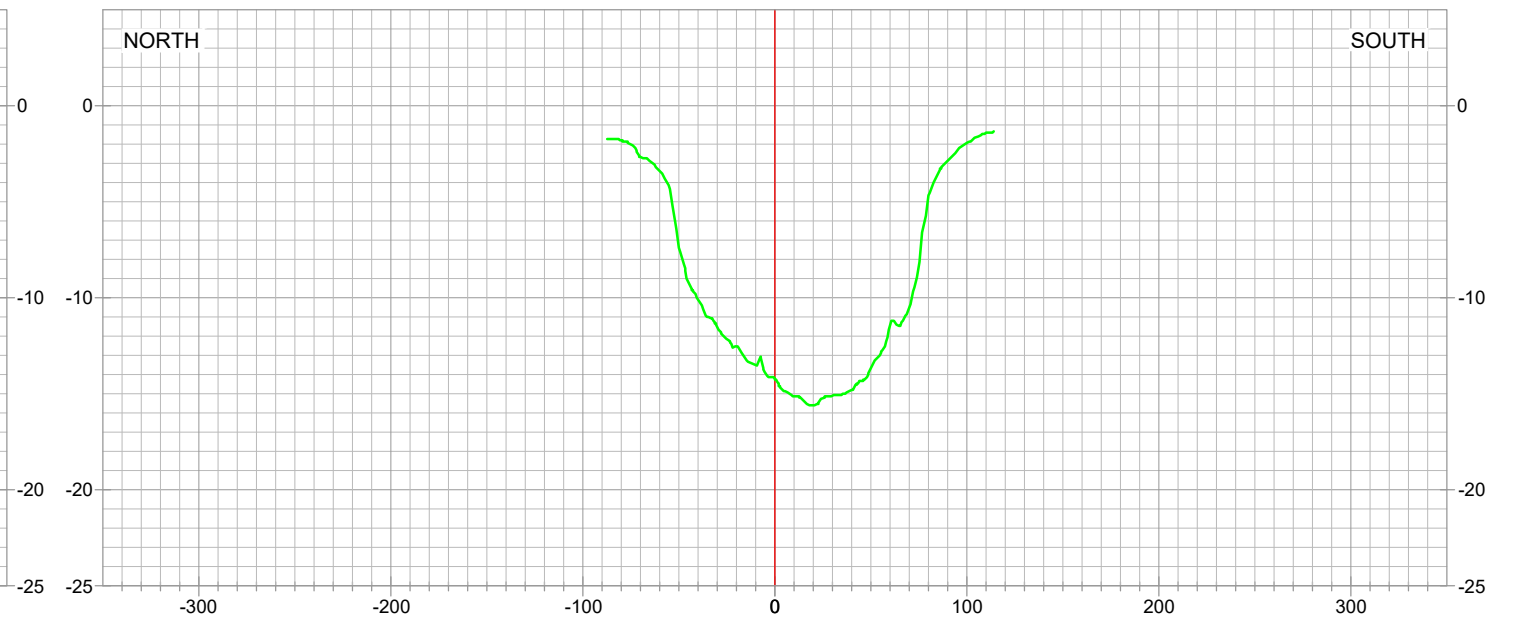
STA. 609+45



STA. 619+45



STA. 614+45



STA. 624+45

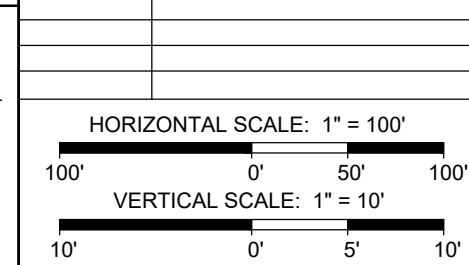


LEGEND

- PRE-CONSTRUCTION SURVEY
- PROJECT BASELINE / ALIGNMENT

REVISED BY:

DATE:



DATE: 07/09/2020

JOB# 2201006



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FILE: Grand Bayou BA-0217_Design_EQUIPMENT ACCESS_070920.dwg

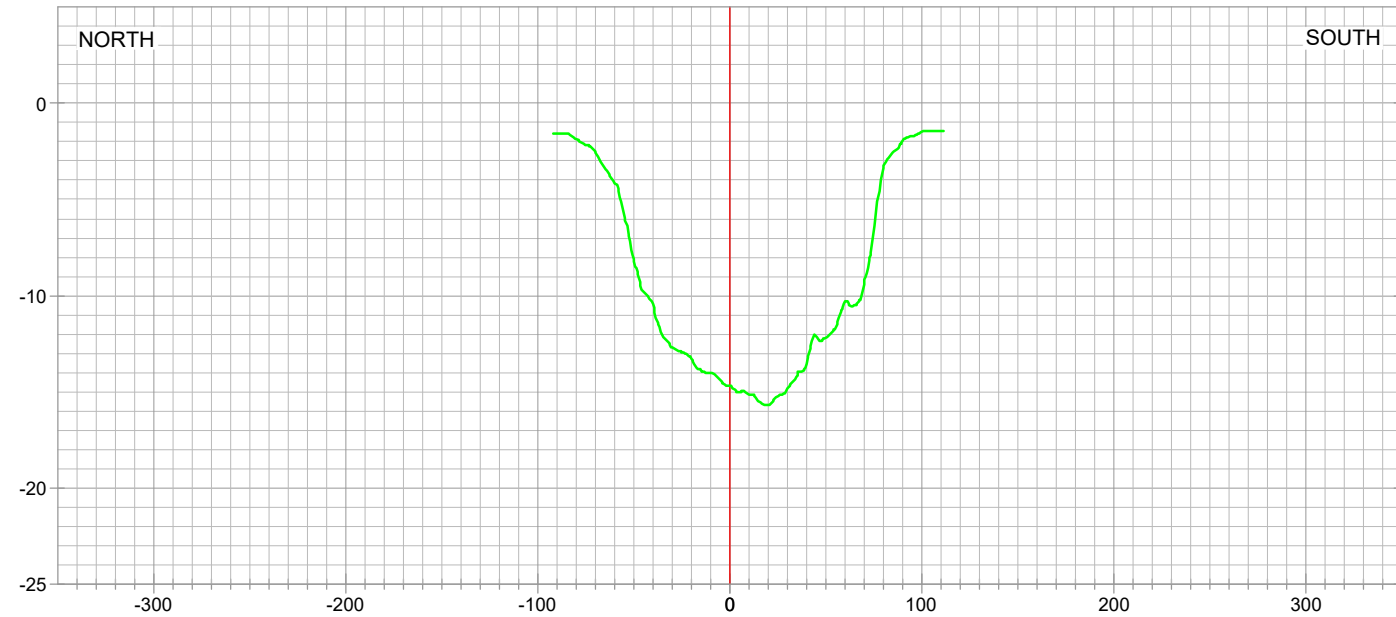
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GRAND BAYOU RIDGE AND
MARSH RESTORATION PROJECT
PROJECT NO. BA-0217

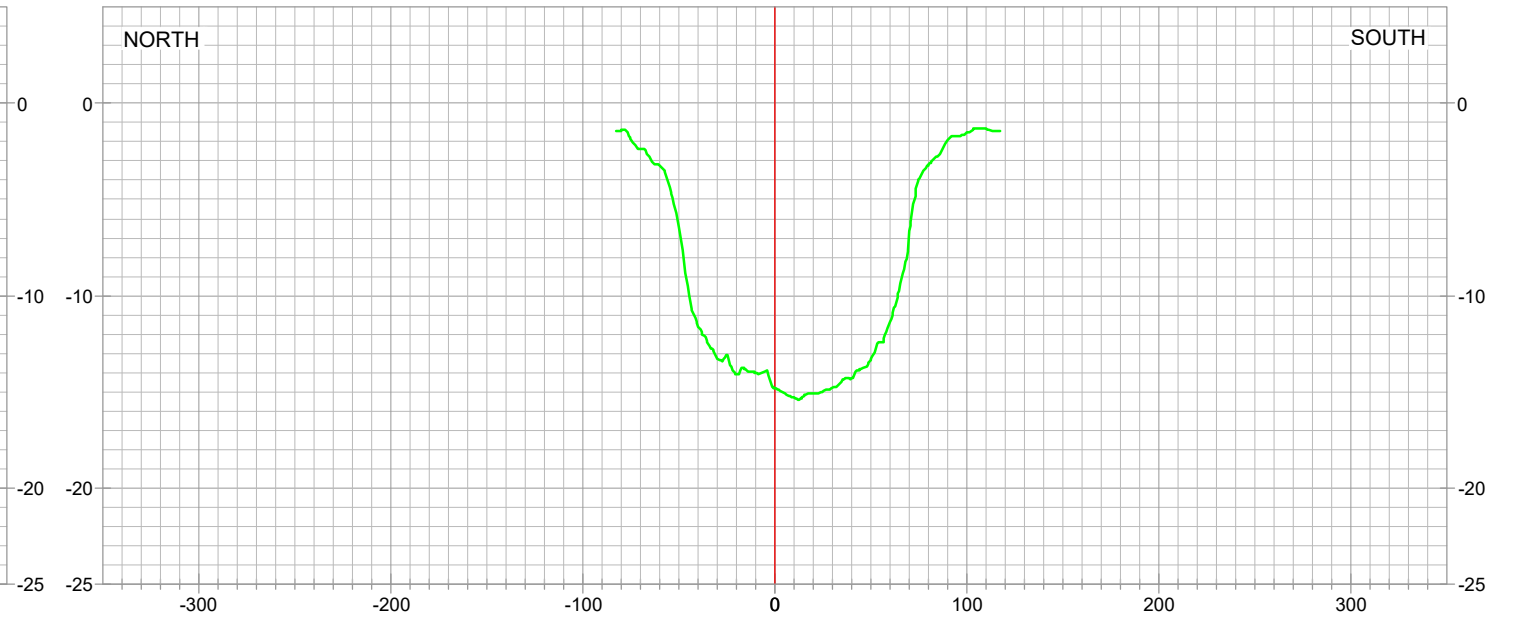
DESIGN SURVEY

CROSS-SECTION VIEWS
PLAQUEMINES PARISH, LA.

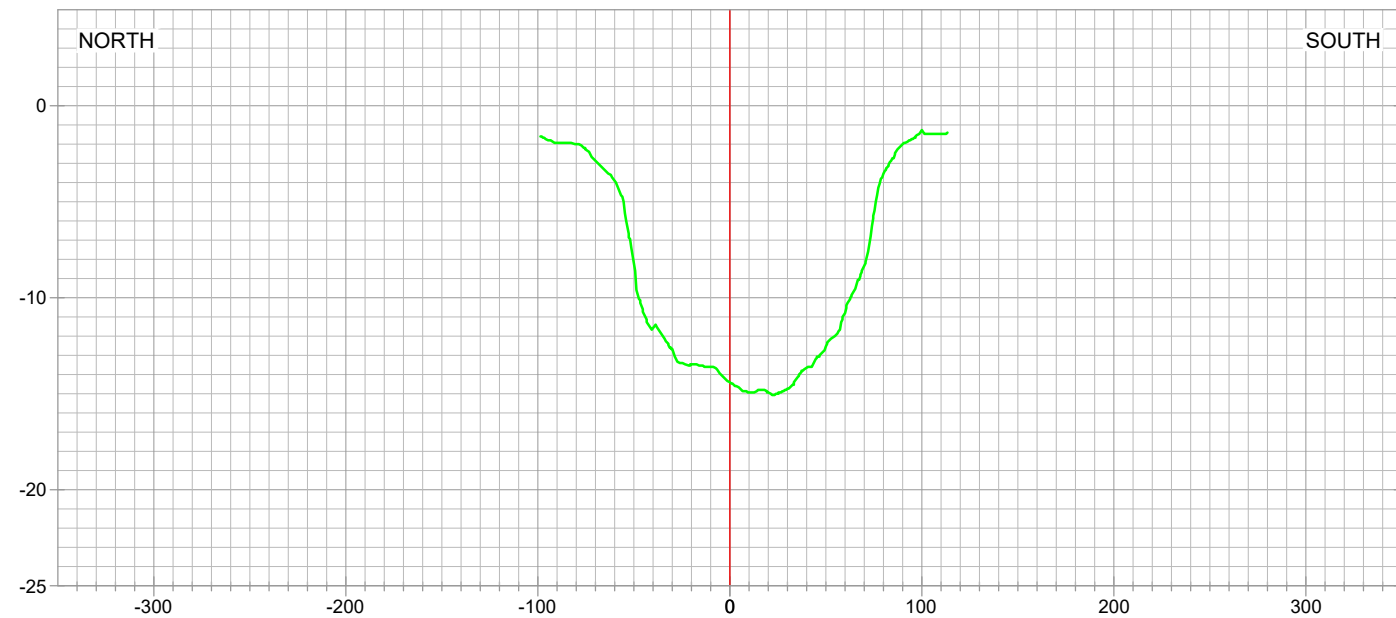
SHEET: 45 OF 110



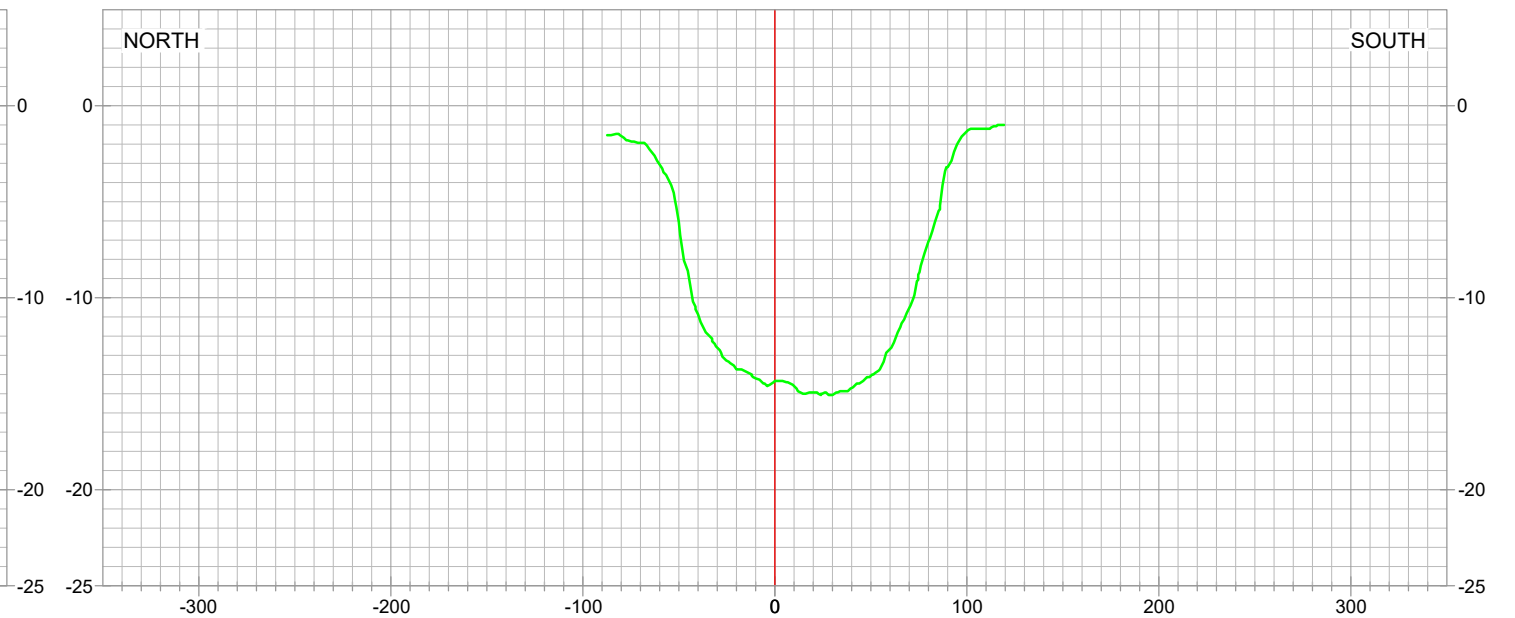
STA. 629+45



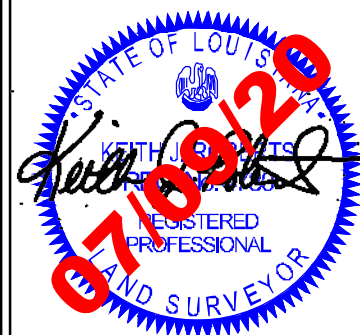
STA. 639+45



STA. 634+45



STA. 644+45

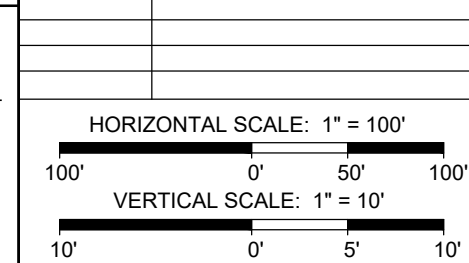


LEGEND

- PRE-CONSTRUCTION SURVEY
- PROJECT BASELINE / ALIGNMENT

REVISED BY:

DATE:



DATE: 07/09/2020

JOB# 2201006



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FILE: Grand Bayou BA-0217_Design_EQUIPMENT ACCESS_070920.dwg

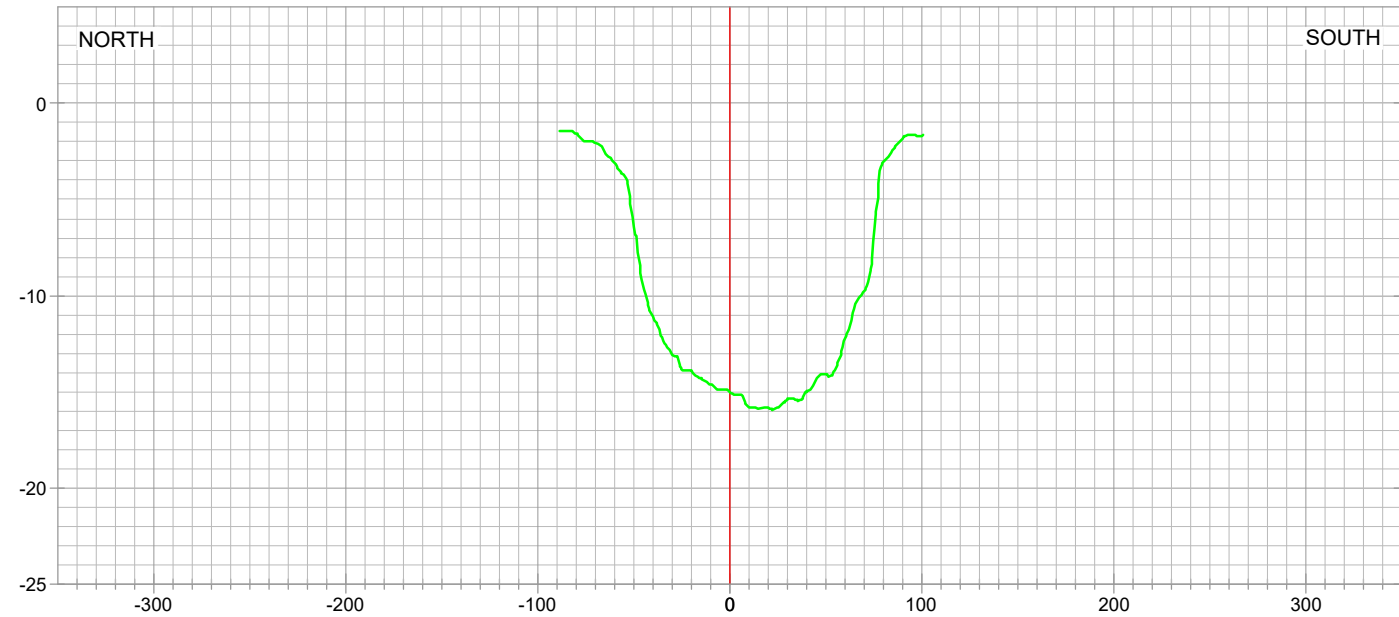
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GRAND BAYOU RIDGE AND
MARSH RESTORATION PROJECT
PROJECT NO. BA-0217

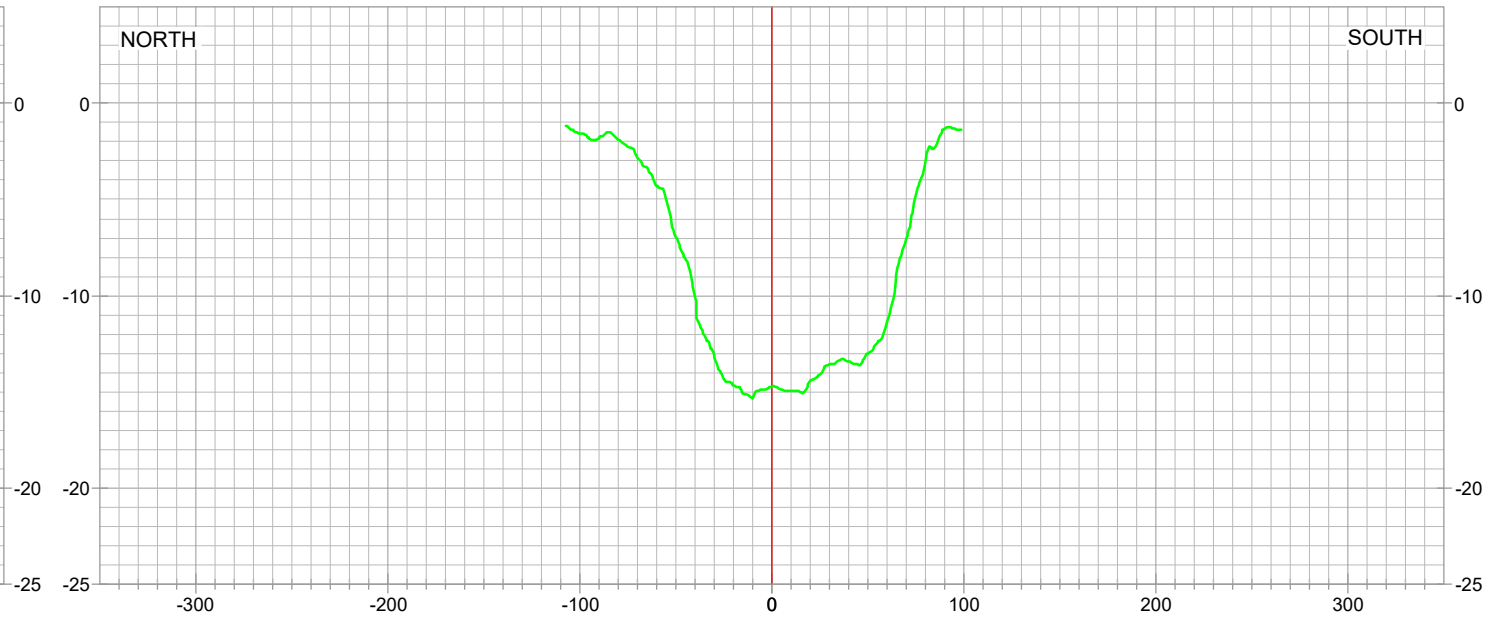
DESIGN SURVEY

CROSS-SECTION VIEWS
PLAQUEMINES PARISH, LA.

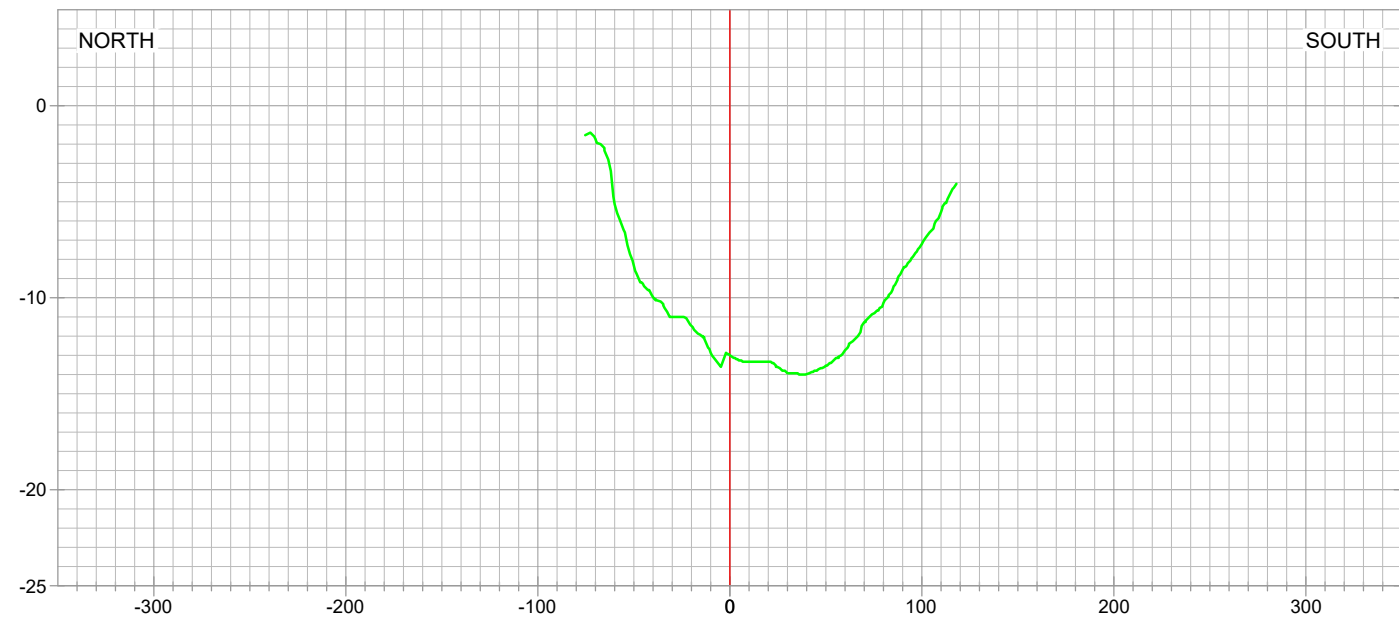
SHEET: 46 OF 110



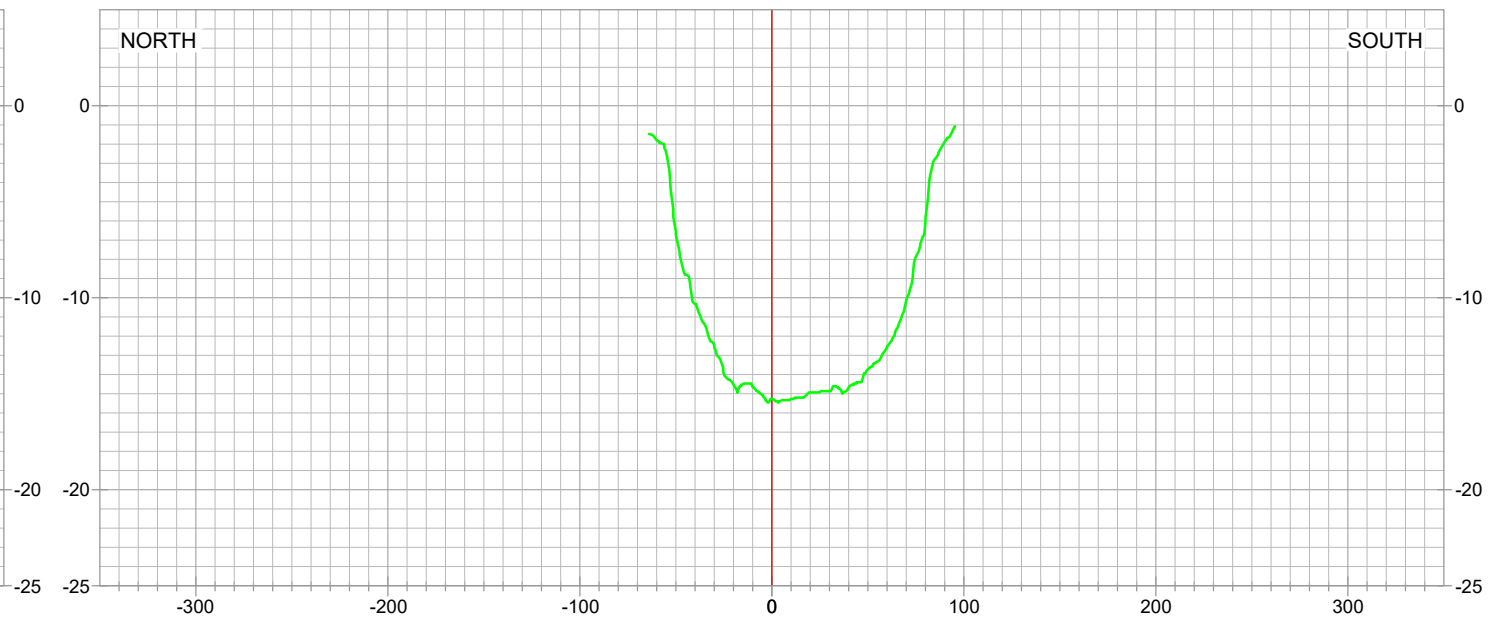
STA. 649+45



STA. 659+45



STA. 654+45



STA. 664+45

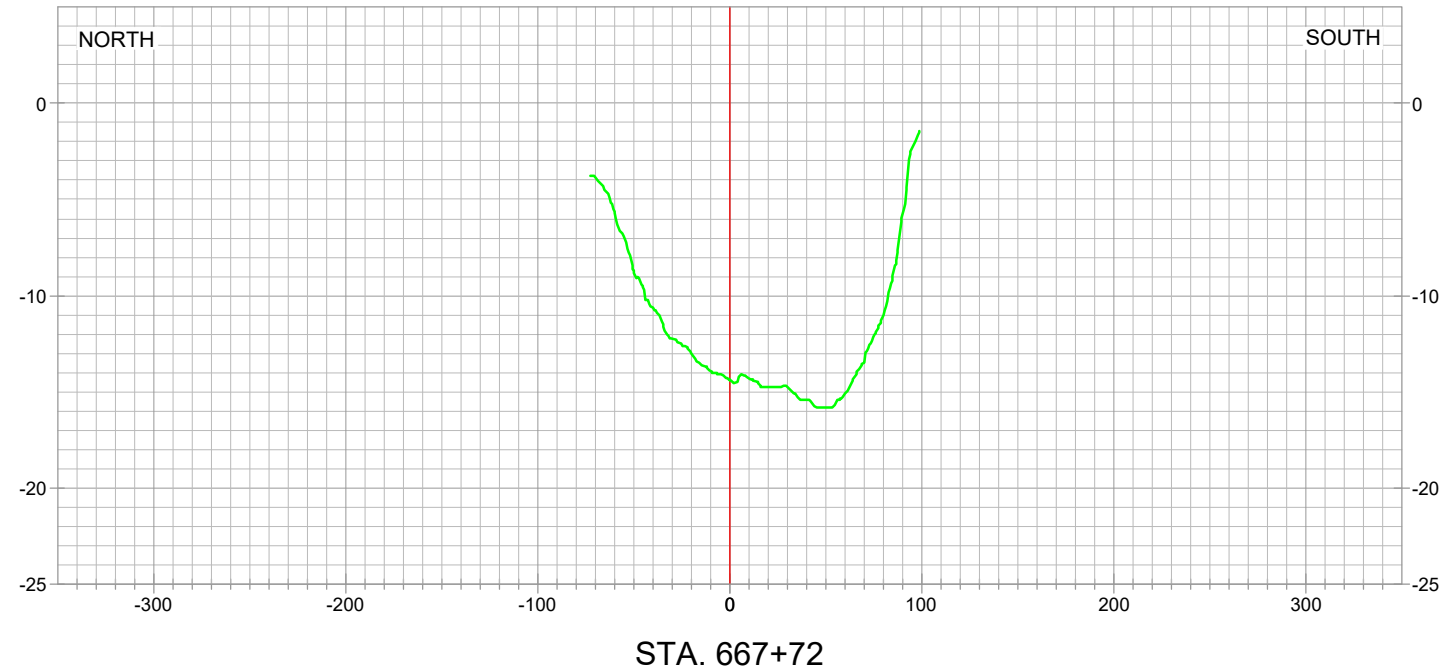


LEGEND	
	PRE-CONSTRUCTION SURVEY
	PROJECT BASELINE / ALIGNMENT

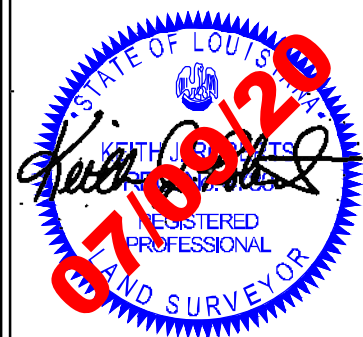
REVISED BY:	DATE:
HORIZONTAL SCALE: 1" = 100' 100' 0' 50' 100' VERTICAL SCALE: 1" = 10' 10' 0' 5' 10'	
DATE: 07/09/2020	JOB# 2201006

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583	
FILE: Grand Bayou BA-0217_Design_EQUIPMENT ACCESS_070920.dwg	

EQUIPMENT ACCESS "A"	
GRAND BAYOU RIDGE AND MARSH RESTORATION PROJECT PROJECT NO. BA-0217 <i>DESIGN SURVEY</i> CROSS-SECTION VIEWS PLAQUEMINES PARISH, LA.	
SHEET: 47 OF 110	



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LEGEND

- PRE-CONSTRUCTION SURVEY
- PROJECT BASELINE / ALIGNMENT

REVISED BY:

DATE:

HORIZONTAL SCALE: 1" = 100'

100' 0' 50' 100'

VERTICAL SCALE: 1" = 10'

10' 0' 5' 10'



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EQUIPMENT ACCESS "A"

GRAND BAYOU RIDGE AND
MARSH RESTORATION PROJECT
PROJECT NO. BA-0217

DESIGN SURVEY

CROSS-SECTION VIEWS
PLAQUEMINES PARISH, LA.

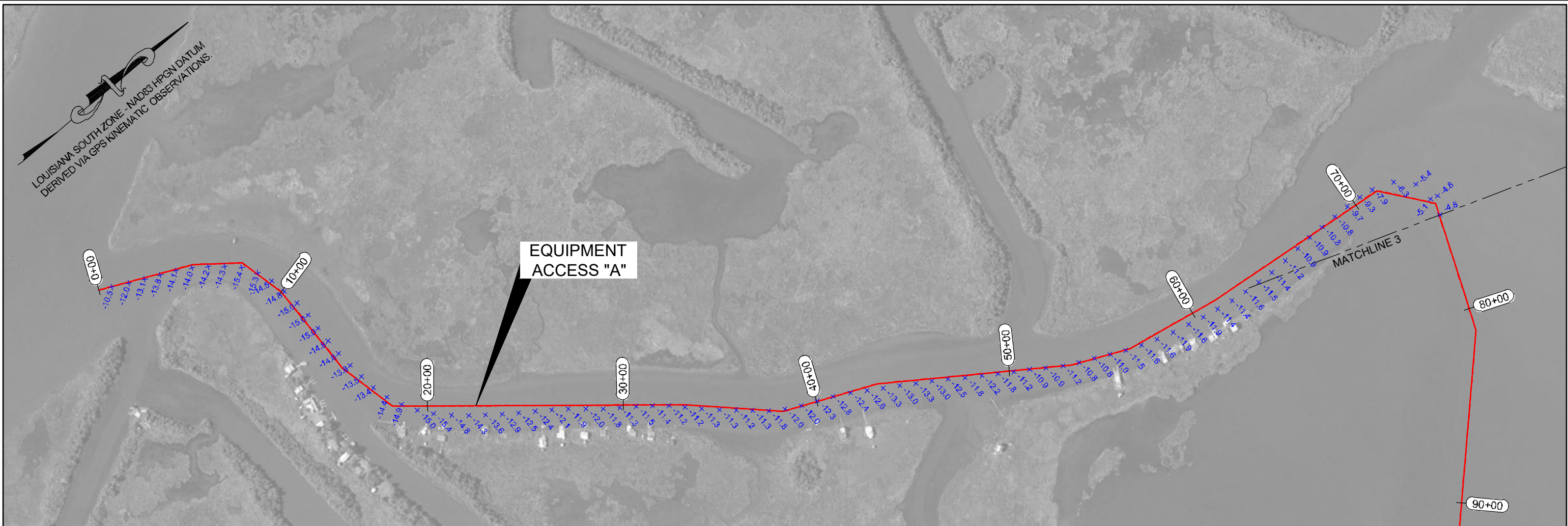
PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

DATE: 07/09/2020

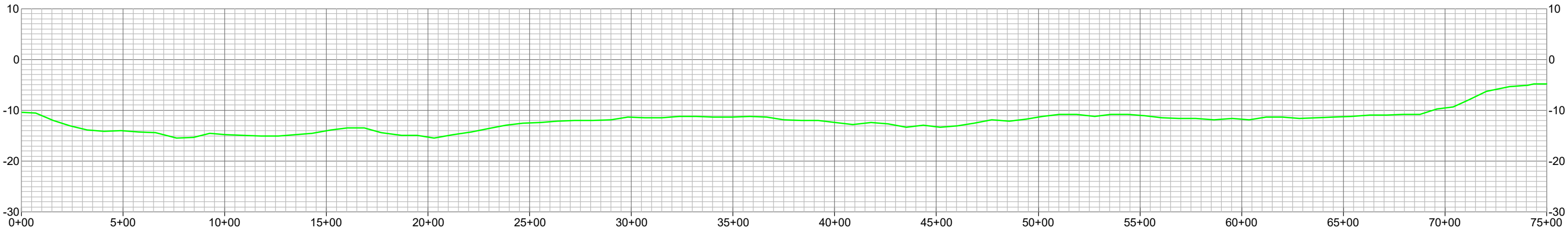
JOB# 2201006

FILE: Grand Bayou BA-0217_Design_EQUIPMENT ACCESS_070920.dwg

SHEET: 48 OF 110



Equipment Access A



LEGEND—PLAN VIEW

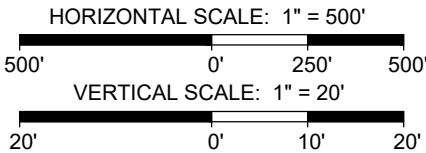
- PROJECT BASELINE / ALIGNMENT
- MARSH CREATION AREA
PROJECT: BA-0217
- MARSH CREATION AREA
PROJECT: BA-0240
- +1.0 ELEVATIONS IN FEET (NAVD88)

LEGEND

- DESIGN SURVEY

REVISED BY:

DATE:



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EQUIPMENT ACCESS "A"

GRAND BAYOU RIDGE AND
MARSH RESTORATION PROJECT
PROJECT NO. BA-0217

DESIGN SURVEY

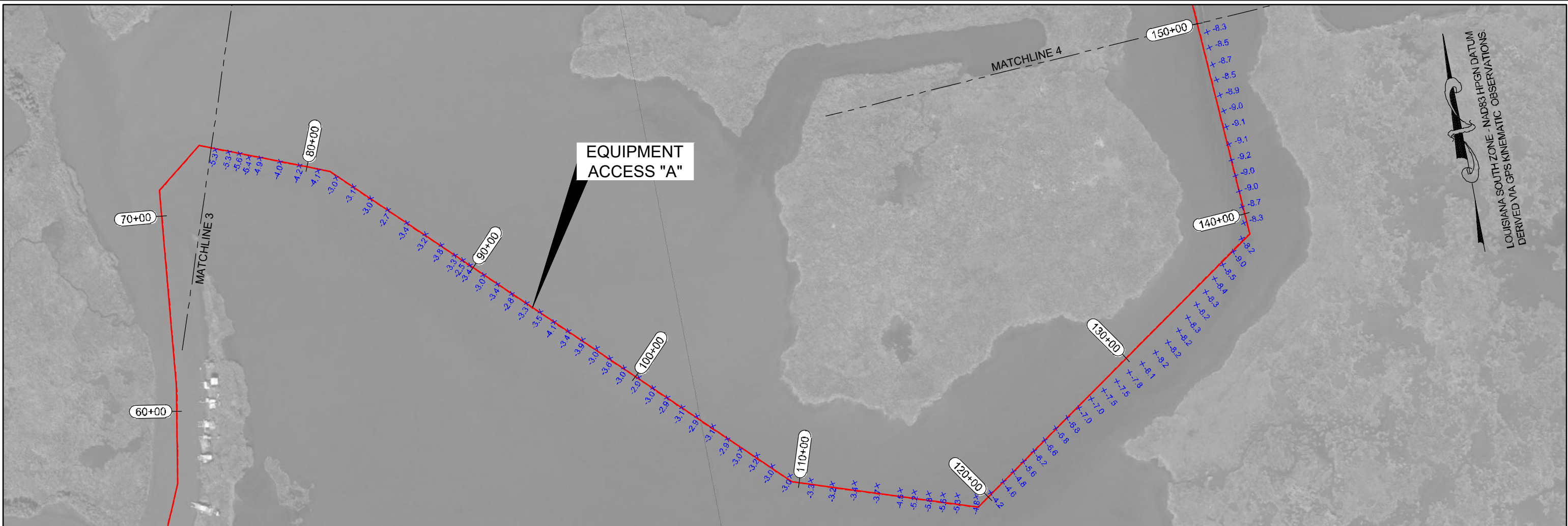
PLAN / PROFILE VIEWS
PLAQUEMINES PARISH, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Grand Bayou BA-0217_Design_EQUIPMENT ACCESS_070920.dwg

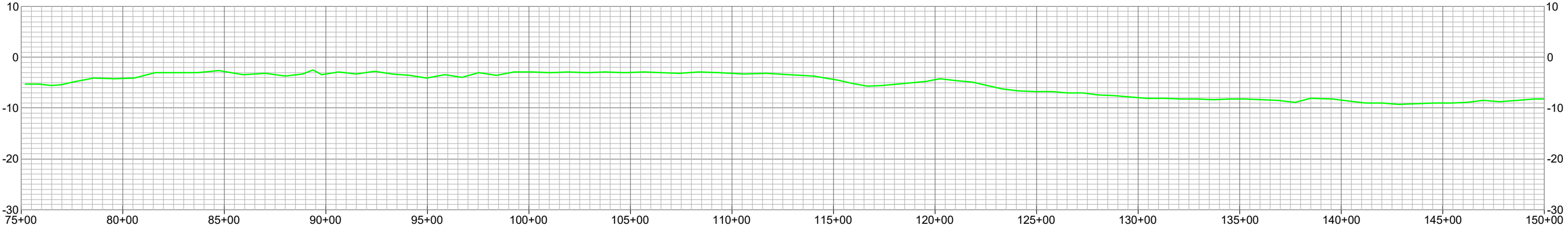
SHEET: 49 OF 110





LOUISIANA SOUTH ZONE - NAD83 HPGN DATUM
DERIVED VIA GPS KINEMATIC OBSERVATIONS.

Equipment Access A



LEGEND—PLAN VIEW	
	PROJECT BASELINE / ALIGNMENT
	MARSH CREATION AREA PROJECT: BA-0217
	MARSH CREATION AREA PROJECT: BA-0240
	+1.0 ELEVATIONS IN FEET (NAVD88)

LEGEND	
	DESIGN SURVEY

REVISED BY:	DATE:
HORIZONTAL SCALE: 1" = 500'	
VERTICAL SCALE: 1" = 20'	
DATE: 07/09/2020	JOB# 2201006



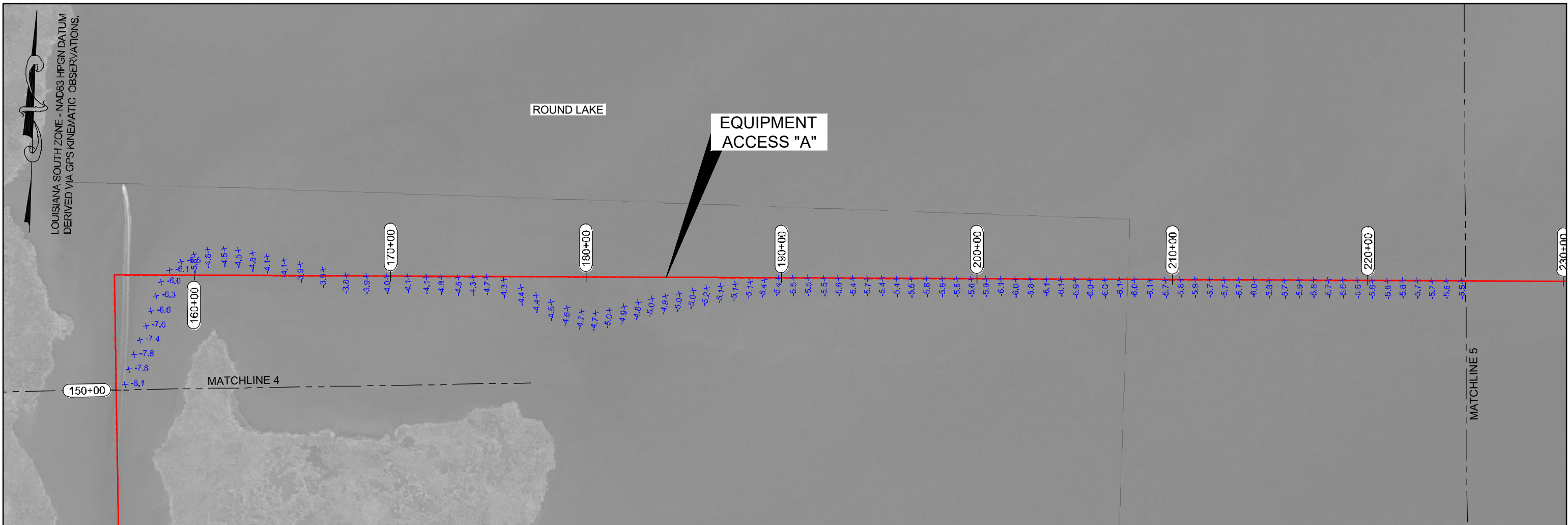
PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583		
FILE: Grand Bayou BA-0217_Design_EQUIPMENT ACCESS_070920.dwg	SHEET: 50 OF 110	

EQUIPMENT ACCESS "A"

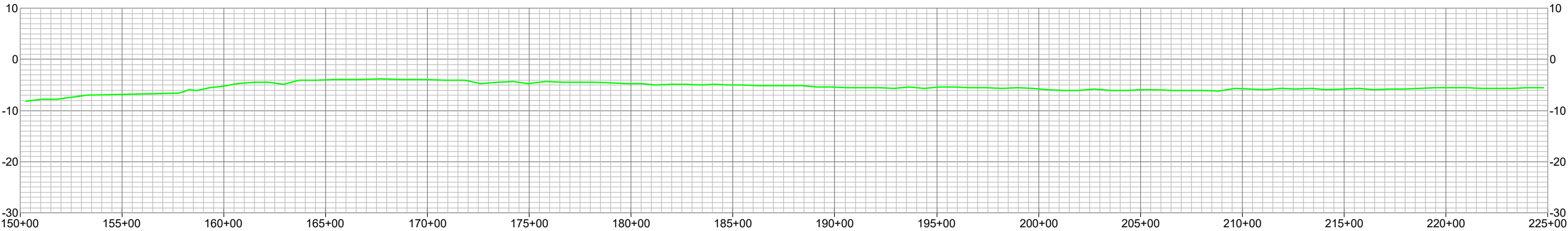
GRAND BAYOU RIDGE AND
MARSH RESTORATION PROJECT
PROJECT NO. BA-0217

DESIGN SURVEY

PLAN / PROFILE VIEWS
PLAQUEMINES PARISH, LA.



Equipment Access A



LEGEND—PLAN VIEW	
	PROJECT BASELINE / ALIGNMENT
	MARSH CREATION AREA PROJECT: BA-0217
	MARSH CREATION AREA PROJECT: BA-0240
+1.0	ELEVATIONS IN FEET (NAVD88)

LEGEND	
	DESIGN SURVEY

REVISED BY:	DATE:
HORIZONTAL SCALE: 1" = 500'	
VERTICAL SCALE: 1" = 20'	
DATE: 07/09/2020	JOB# 2201006

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Grand Bayou BA-0217_Design_EQUIPMENT ACCESS_070920.dwg

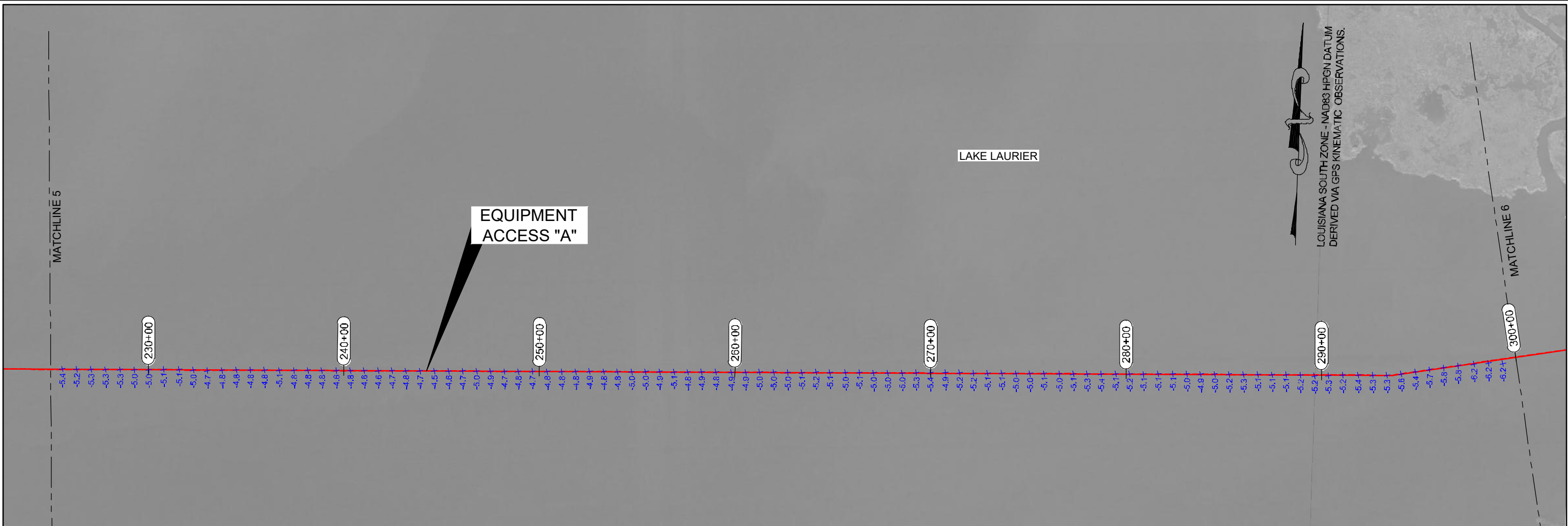
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GRAND BAYOU RIDGE AND
MARSH RESTORATION PROJECT
PROJECT NO. BA-0217

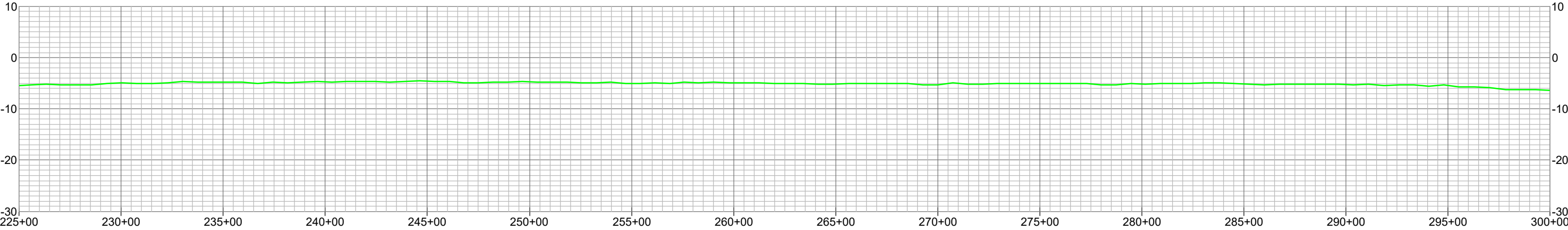
DESIGN SURVEY

PLAN / PROFILE VIEWS
PLAQUEMINES PARISH, LA.

SHEET: 51 OF 110



Equipment Access A



LEGEND—PLAN VIEW	
	PROJECT BASELINE / ALIGNMENT
	MARSH CREATION AREA PROJECT: BA-0217
	MARSH CREATION AREA PROJECT: BA-0240
	ELEVATIONS IN FEET (NAVD88)

LEGEND	
	DESIGN SURVEY

REVISED BY:	DATE:
HORIZONTAL SCALE: 1" = 500' VERTICAL SCALE: 1" = 20' 	
DATE: 07/09/2020	JOB# 2201006

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

EQUIPMENT ACCESS "A"

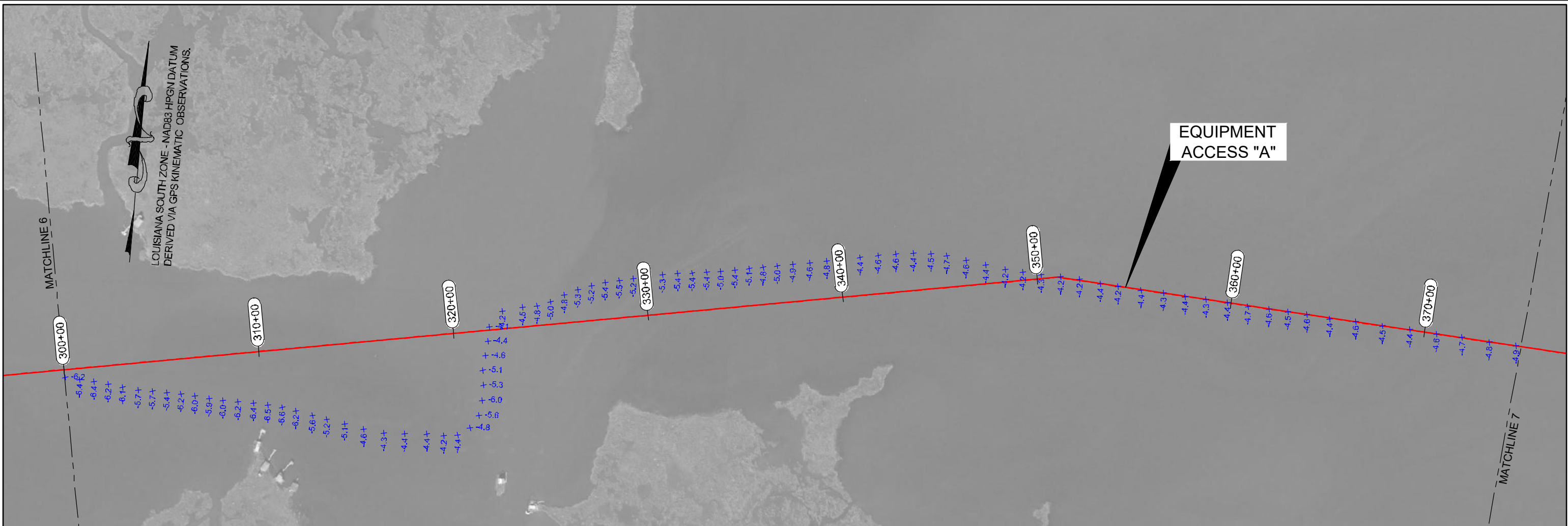
GRAND BAYOU RIDGE AND MARSH RESTORATION PROJECT
PROJECT NO. BA-0217

DESIGN SURVEY

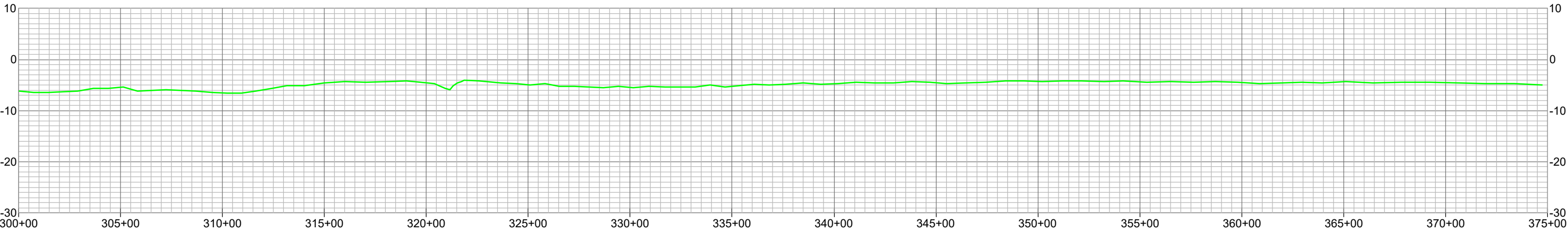
PLAN / PROFILE VIEWS
PLAQUEMINES PARISH, LA.

FILE: Grand Bayou BA-0217_Design_EQUIPMENT ACCESS_070920.dwg

SHEET: 52 OF 110



Equipment Access A



LEGEND—PLAN VIEW	
	PROJECT BASELINE / ALIGNMENT
	MARSH CREATION AREA PROJECT: BA-0217
	MARSH CREATION AREA PROJECT: BA-0240
	+1.0 ELEVATIONS IN FEET (NAVD88)

LEGEND	
	DESIGN SURVEY

REVISED BY:	DATE:
HORIZONTAL SCALE: 1" = 500' 500' 0' 250' 500' VERTICAL SCALE: 1" = 20' 20' 0' 10' 20'	
DATE: 07/09/2020	JOB# 2201006

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FILE: Grand Bayou BA-0217_Design_EQUIPMENT ACCESS_070920.dwg

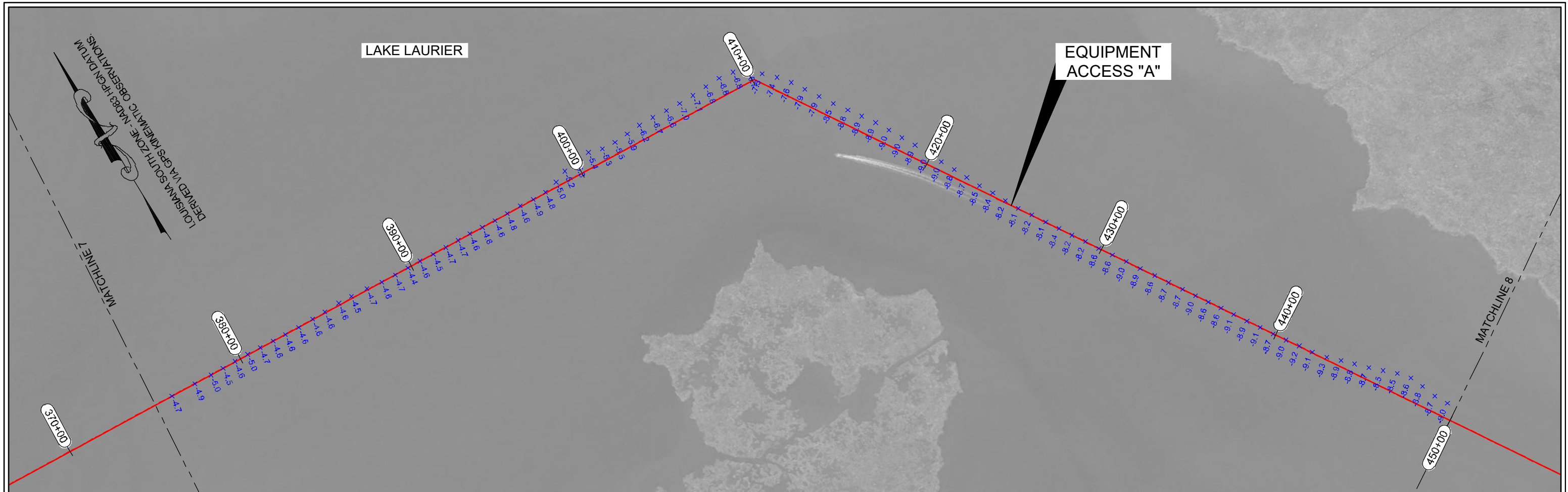
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GRAND BAYOU RIDGE AND
MARSH RESTORATION PROJECT
PROJECT NO. BA-0217

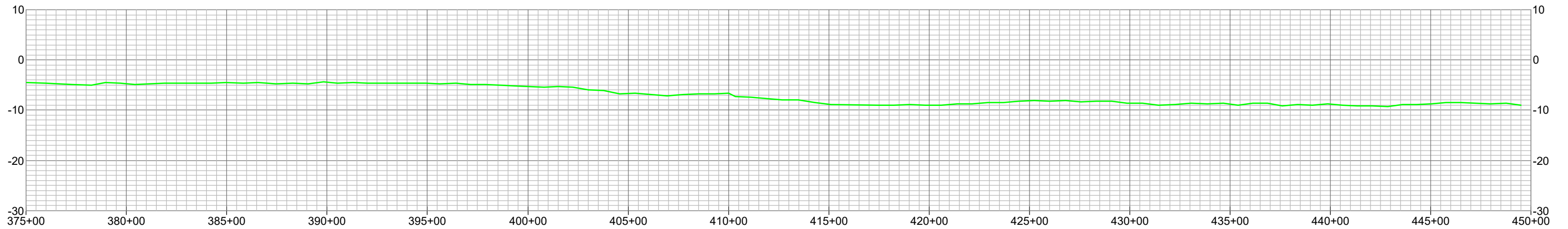
DESIGN SURVEY

PLAN / PROFILE VIEWS
PLAQUEMINES PARISH, LA.

SHEET: 53 OF 110



Equipment Access A



LEGEND—PLAN VIEW	
	PROJECT BASELINE / ALIGNMENT
	MARSH CREATION AREA PROJECT: BA-0217
	MARSH CREATION AREA PROJECT: BA-0240
	+1.0 ELEVATIONS IN FEET (NAVD88)

LEGEND	
	DESIGN SURVEY

REVISED BY:	DATE:
HORIZONTAL SCALE: 1" = 500'	
VERTICAL SCALE: 1" = 20'	
DATE: 07/09/2020	JOB# 2201006

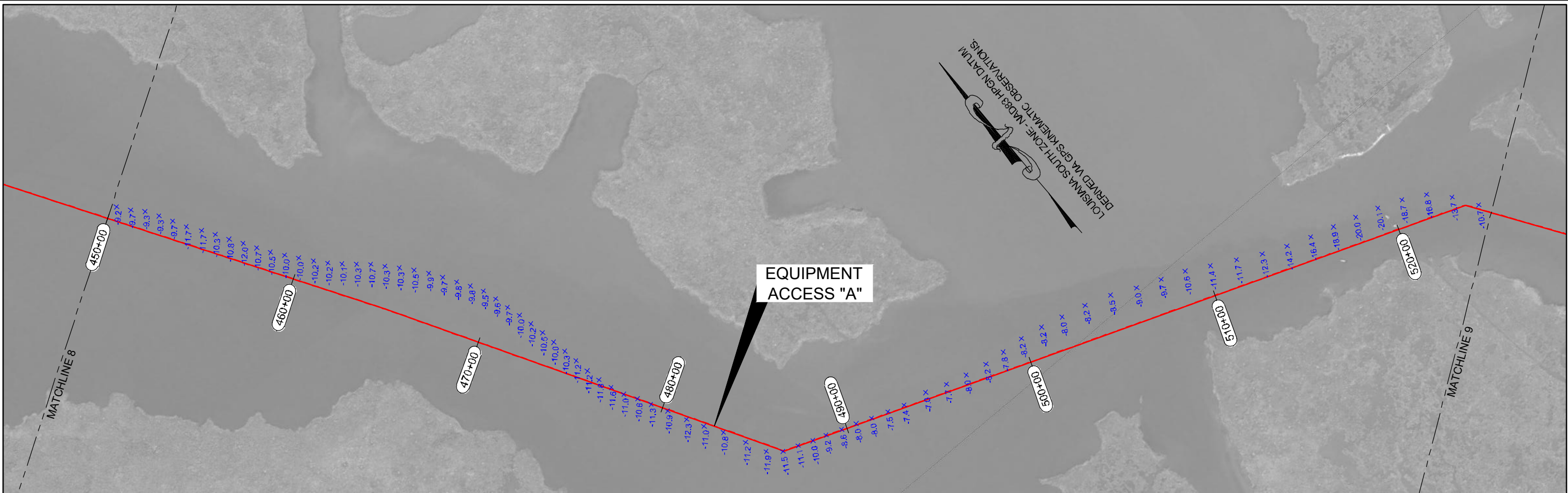
**HYDROTERRA**



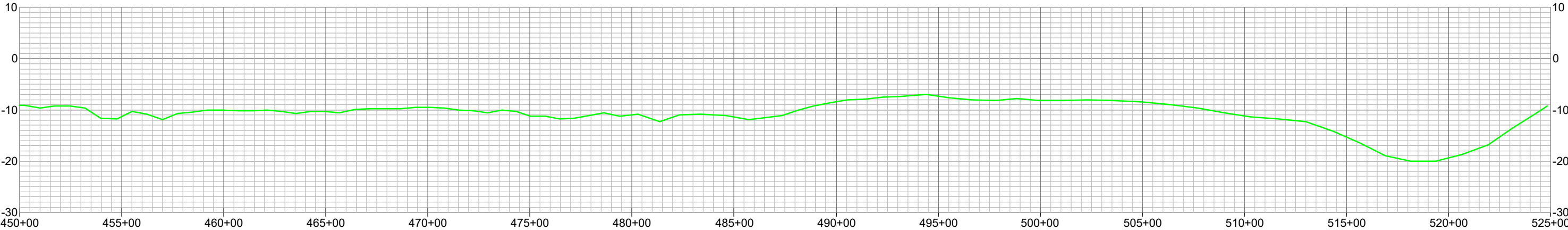
PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Grand Bayou BA-0217_Design_EQUIPMENT ACCESS_070920.dwg

EQUIPMENT ACCESS "A"	
GRAND BAYOU RIDGE AND MARSH RESTORATION PROJECT PROJECT NO. BA-0217	
DESIGN SURVEY	
PLAN / PROFILE VIEWS PLAQUEMINES PARISH, LA.	
DATE: 07/09/2020	JOB# 2201006
FILE: Grand Bayou BA-0217_Design_EQUIPMENT ACCESS_070920.dwg	SHEET: 54 OF 110



Equipment Access A



LEGEND—PLAN VIEW	
	PROJECT BASELINE / ALIGNMENT
	MARSH CREATION AREA PROJECT: BA-0217
	MARSH CREATION AREA PROJECT: BA-0240
	+1.0 ELEVATIONS IN FEET (NAVD88)

LEGEND	
	DESIGN SURVEY

REVISED BY:	DATE:
HORIZONTAL SCALE: 1" = 500'	
VERTICAL SCALE: 1" = 20'	
DATE: 07/09/2020	JOB# 2201006

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Grand Bayou BA-0217_Design_EQUIPMENT ACCESS_070920.dwg

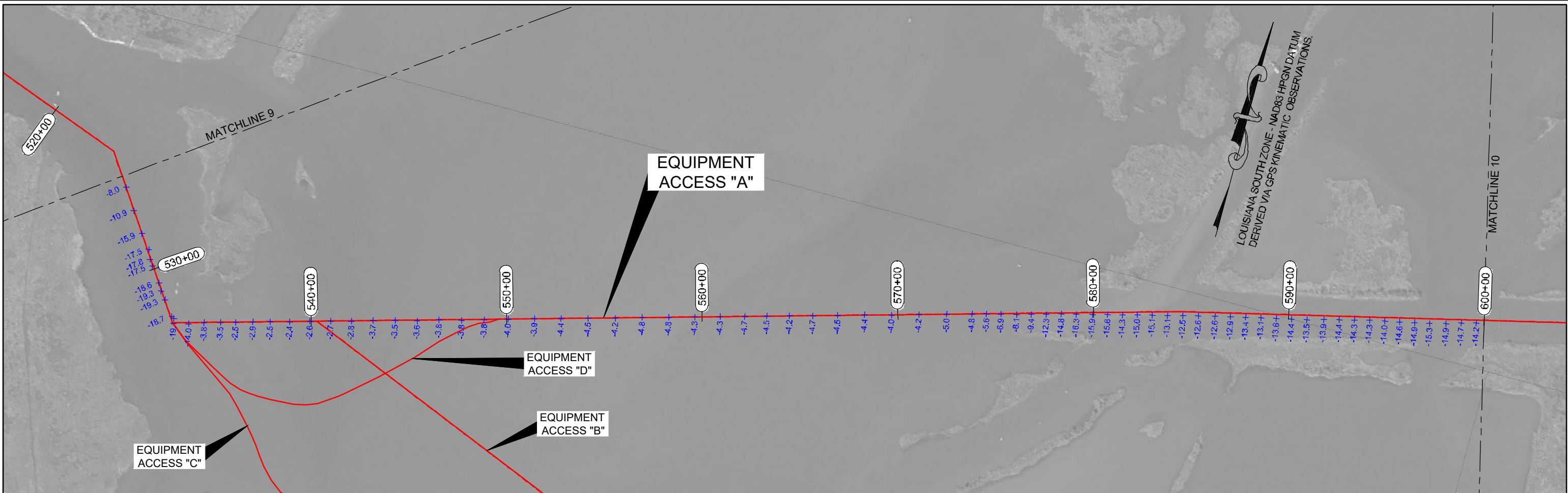
EQUIPMENT ACCESS "A"

GRAND BAYOU RIDGE AND MARSH RESTORATION PROJECT
PROJECT NO. BA-0217

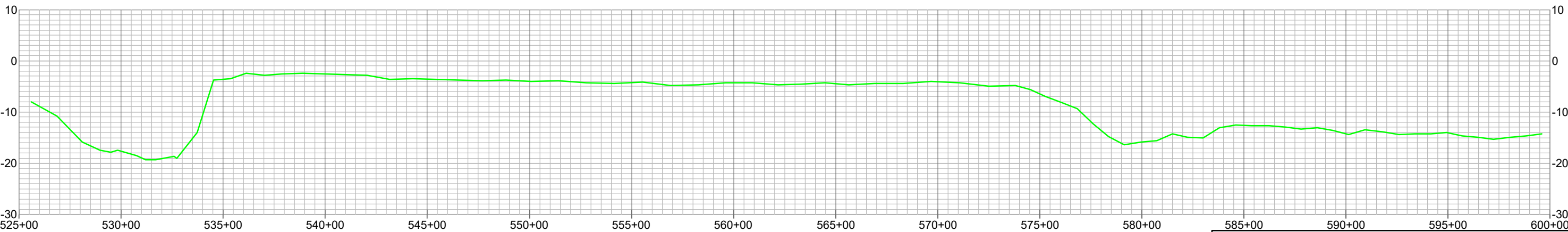
DESIGN SURVEY

PLAN / PROFILE VIEWS
PLAQUEMINES PARISH, LA.

SHEET: 55 OF 110



Equipment Access A

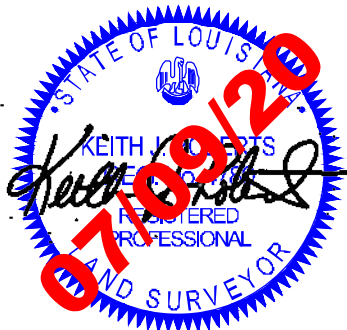


EQUIPMENT ACCESS "A"

GRAND BAYOU RIDGE AND
MARSH RESTORATION PROJECT
PROJECT NO. BA-0217

DESIGN SURVEY

PLAN / PROFILE VIEWS
PLAQUEMINES PARISH, LA.



LEGEND—PLAN VIEW

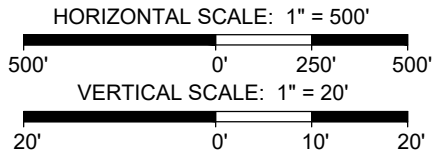
- PROJECT BASELINE / ALIGNMENT
- MARSH CREATION AREA
PROJECT: BA-0217
- MARSH CREATION AREA
PROJECT: BA-0240
- ELEVATIONS IN FEET (NAVD88)

LEGEND

- DESIGN SURVEY

REVISED BY:

DATE:



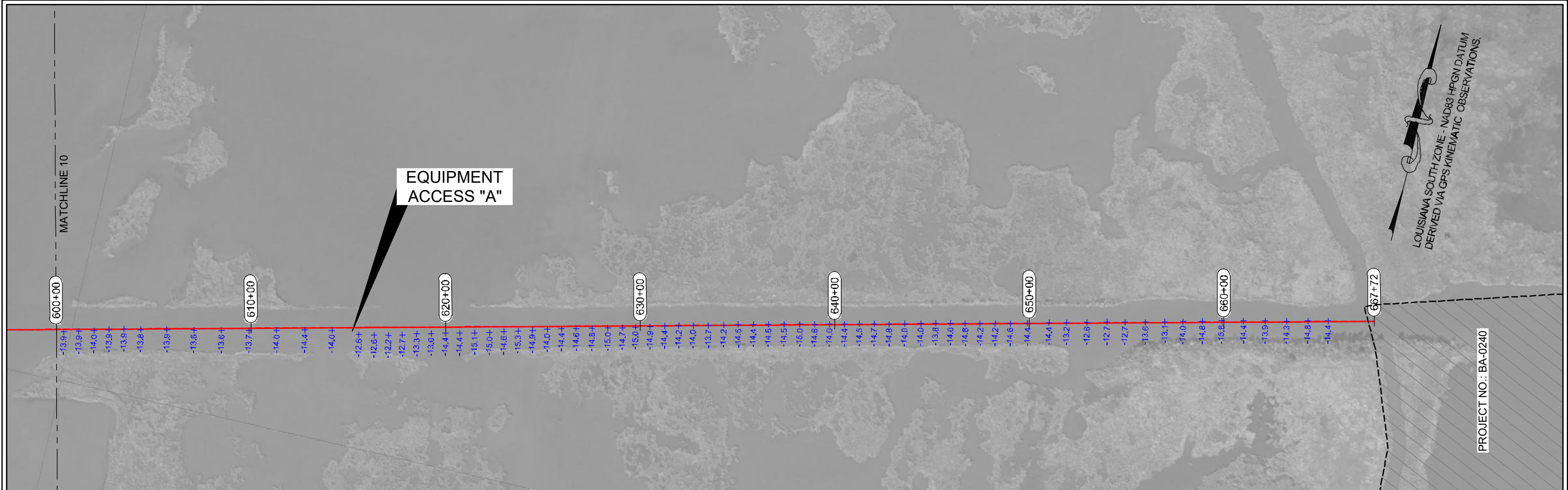
PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

DATE: 07/09/2020

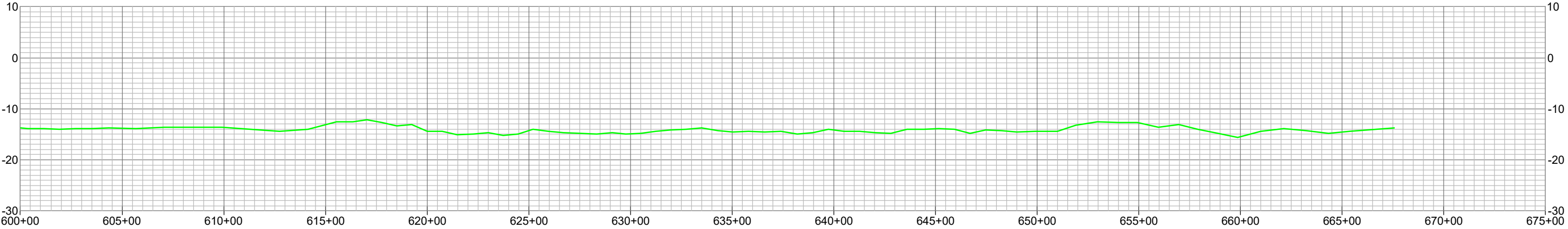
JOB# 2201006

FILE: Grand Bayou BA-0217_Design_EQUIPMENT ACCESS_070920.dwg

SHEET: 56 OF 110



Equipment Access A



LEGEND—PLAN VIEW	
	PROJECT BASELINE / ALIGNMENT
	MARSH CREATION AREA PROJECT: BA-0217
	MARSH CREATION AREA PROJECT: BA-0240
	ELEVATIONS IN FEET (NAVD88)

LEGEND	
	DESIGN SURVEY

REVISED BY:	DATE:
HORIZONTAL SCALE: 1" = 500'	
VERTICAL SCALE: 1" = 20'	
DATE: 07/09/2020	JOB# 2201006



PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Grand Bayou BA-0217_Design_EQUIPMENT ACCESS_070920.dwg

EQUIPMENT ACCESS "A"

GRAND BAYOU RIDGE AND MARSH RESTORATION PROJECT
PROJECT NO. BA-0217

DESIGN SURVEY
PLAN / PROFILE VIEWS
PLAQUEMINES PARISH, LA.

SHEET: 57 OF 110



MATCHLINE 9

EQUIPMENT
ACCESS "A"

BAYOU GRANDE CHENIERE

PROJECT NO.: BA-0240

EA-B1

EQUIPMENT
ACCESS "D"

EA-B2

EA-B3

FA-B4

EA-B5

EA-B6

EA-B7

EA-B8

MATCHLINE 11

EQUIPMENT ACCESS "B"

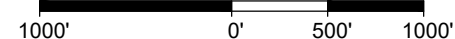


LEGEND

PROJECT BASELINE/ALIGNMENT

REVISED BY:	DATE:
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HORIZONTAL SCALE
1" = 1000'



HYDROTERRA



EQUIPMENT ACCESS "B"

GRAND BAYOU RIDGE AND
MARSH RESTORATION PROJECT
PROJECT NO. BA-0217

DESIGN SURVEY

ALIGNMENT PLAN VIEW
PLAQUEMINES PARISH, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

DATE: 07/09/2020

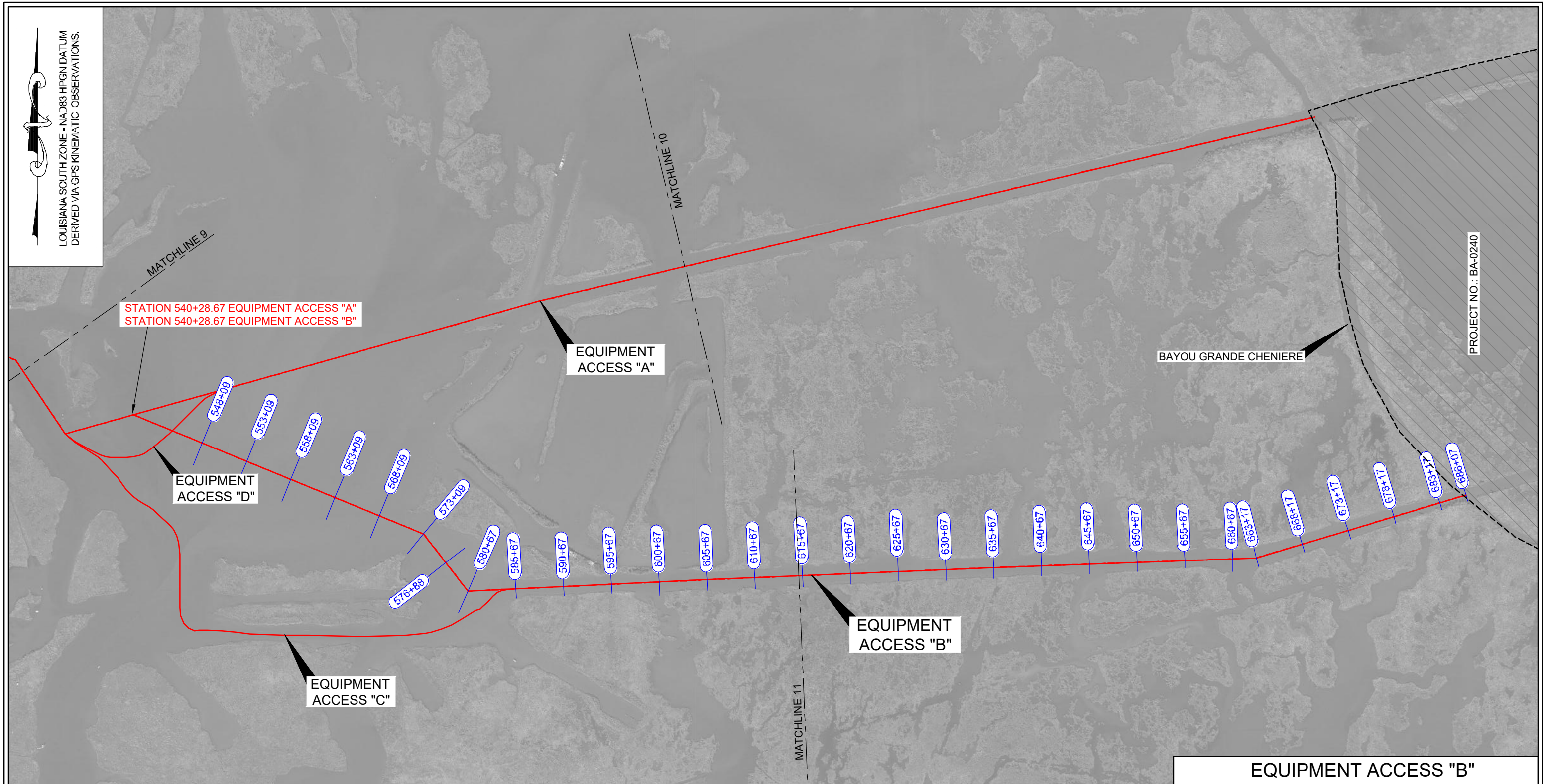
JOB# 2201006

FILE: Grand Bayou BA-0217_Design_EQUIPMENT ACCESS_070920.dwg

SHEET: 58 OF 110



LOUISIANA SOUTH ZONE - NAD83 HPGN DATUM
DERIVED VIA GPS KINEMATIC OBSERVATIONS.



PROJECT NO.: BA-0240



LEGEND	
	PROJECT BASELINE/ALIGNMENT
	SURVEY CROSS-SECTION

REVISED BY:	DATE:
HORIZONTAL SCALE 1" = 1000'	
DATE: 07/09/2020	JOB# 2201006

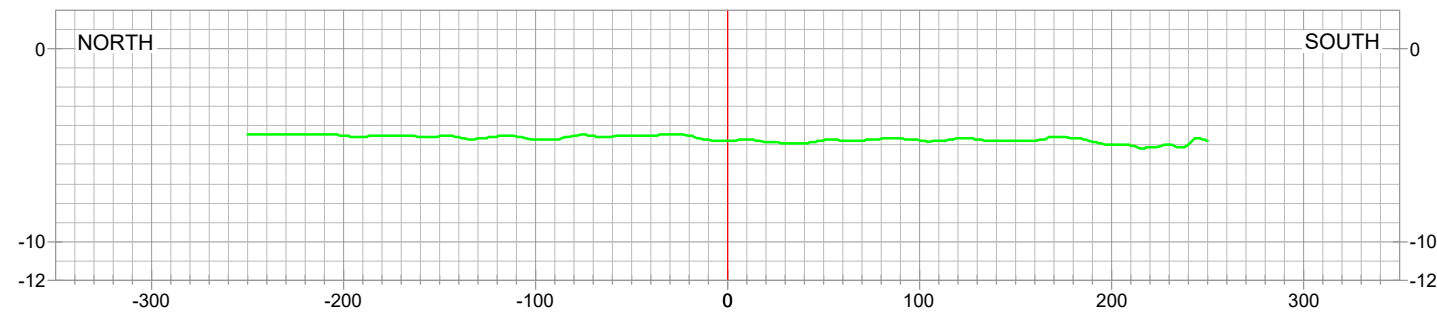
**HYDROTERRA**



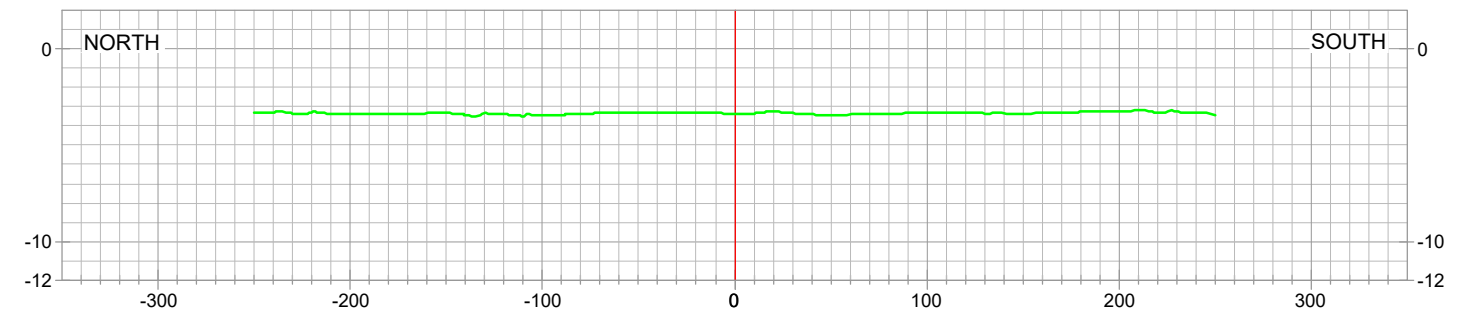
PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Grand Bayou BA-0217_Design_EQUIPMENT ACCESS_070920.dwg

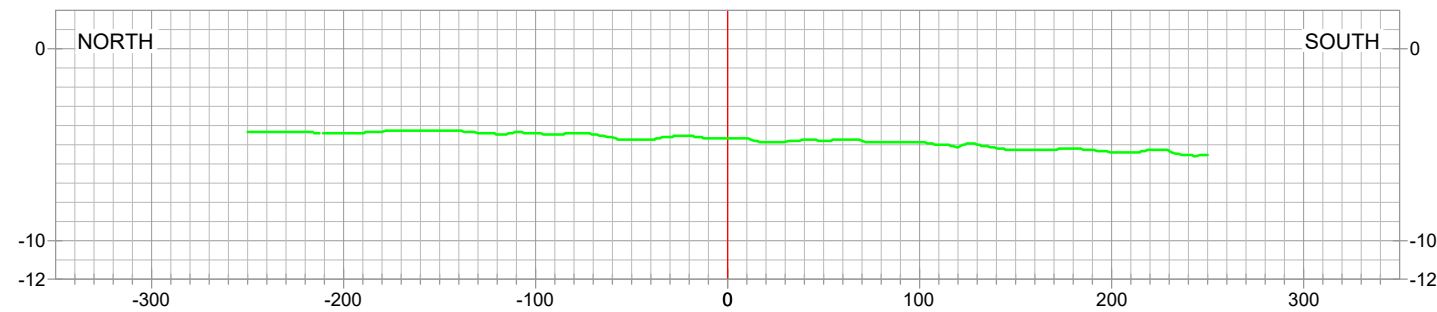
EQUIPMENT ACCESS "B"	
GRAND BAYOU RIDGE AND MARSH RESTORATION PROJECT PROJECT NO. BA-0217	
DESIGN SURVEY SURVEY PLAN VIEW PLAQUEMINES PARISH, LA.	
	SHEET: 59 OF 110



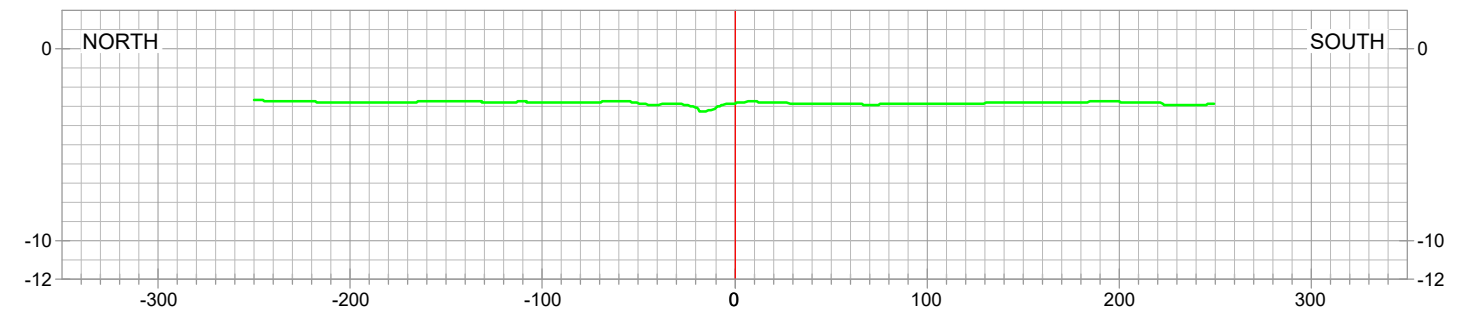
STA. 548+09



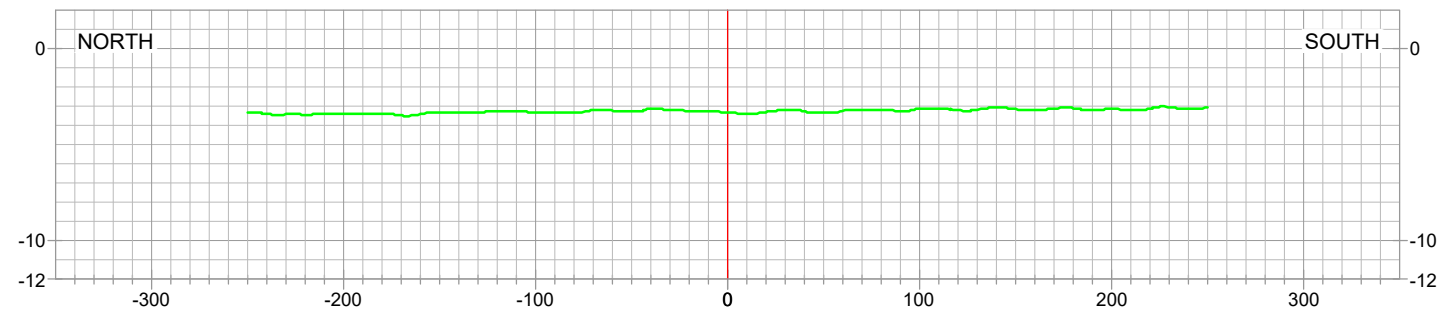
STA. 563+09



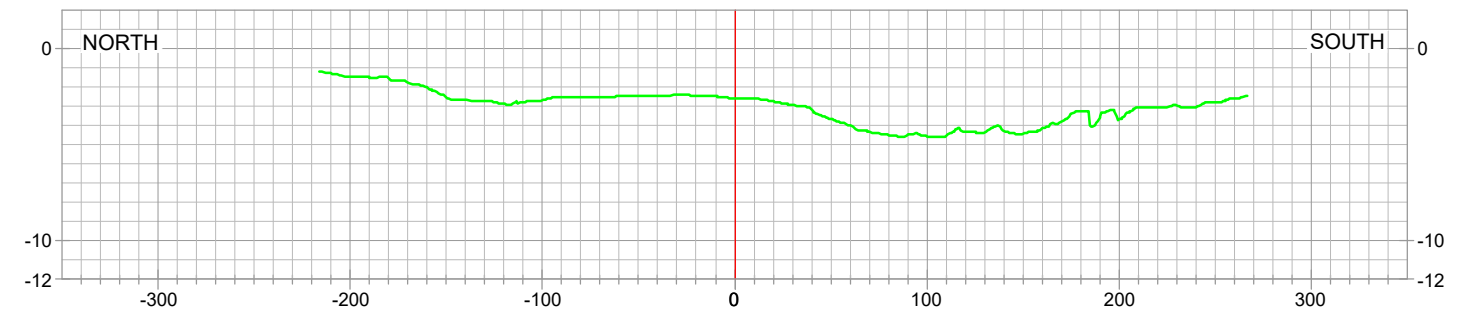
STA. 553+09



STA. 568+09



STA. 558+09



STA. 573+09



LEGEND

- PRE-CONSTRUCTION SURVEY
- PROJECT BASELINE / ALIGNMENT

REVISED BY:

DATE:

DATE: 07/09/2020

JOB# 2201006



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PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

FILE: Grand Bayou BA-0217_Design_EQUIPMENT ACCESS_070920.dwg

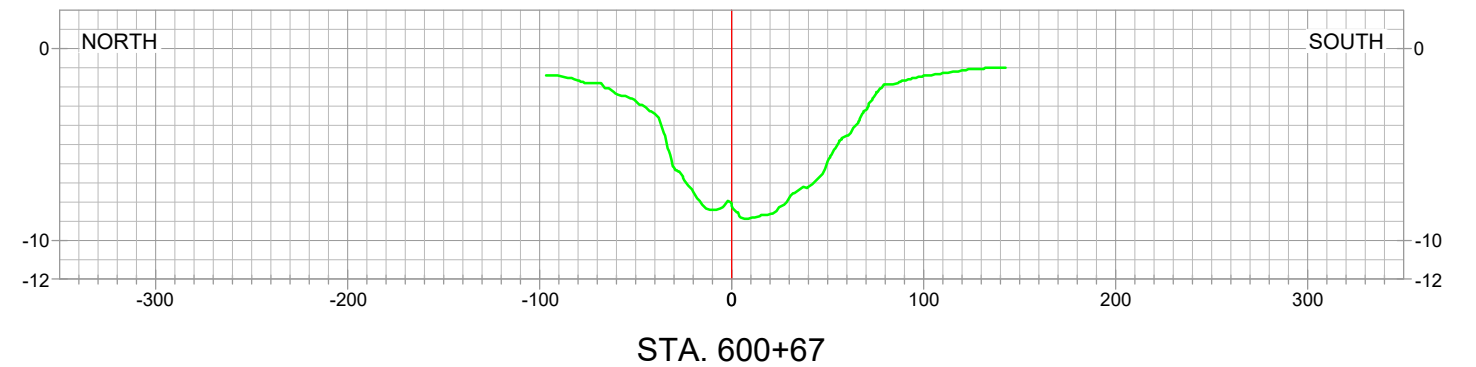
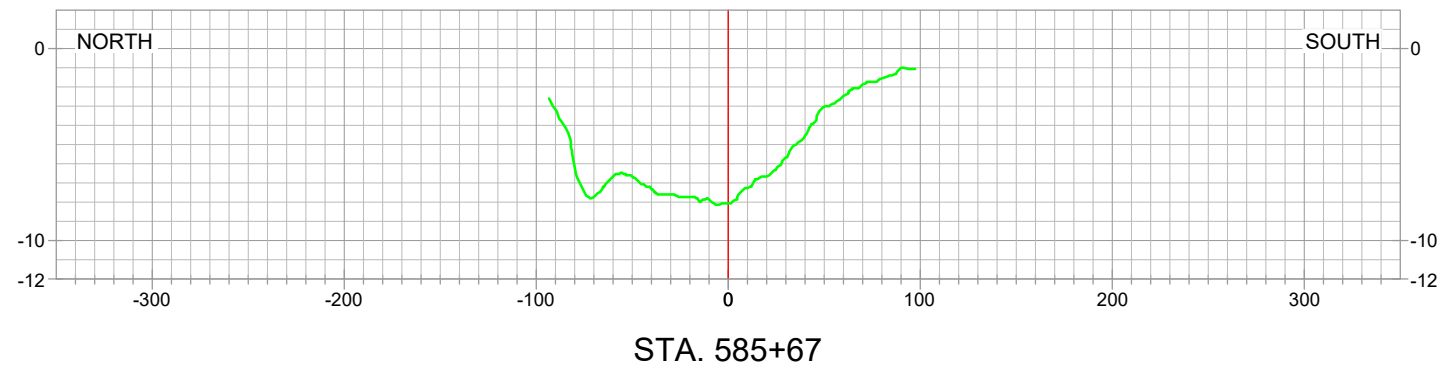
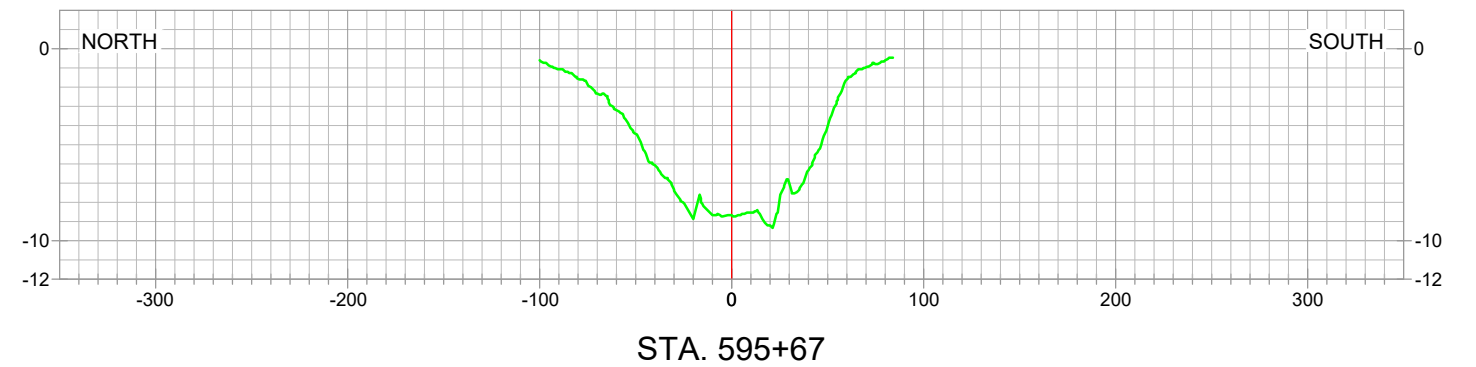
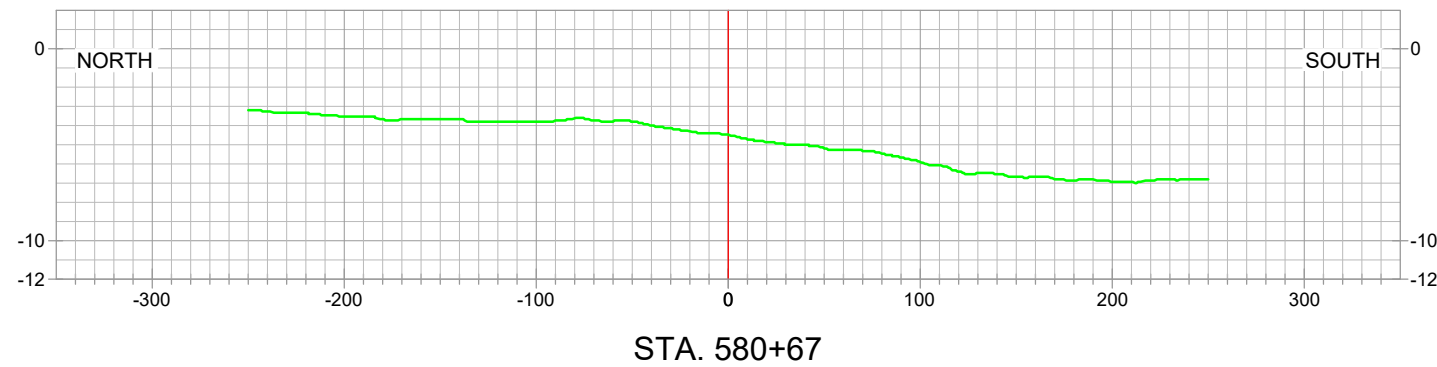
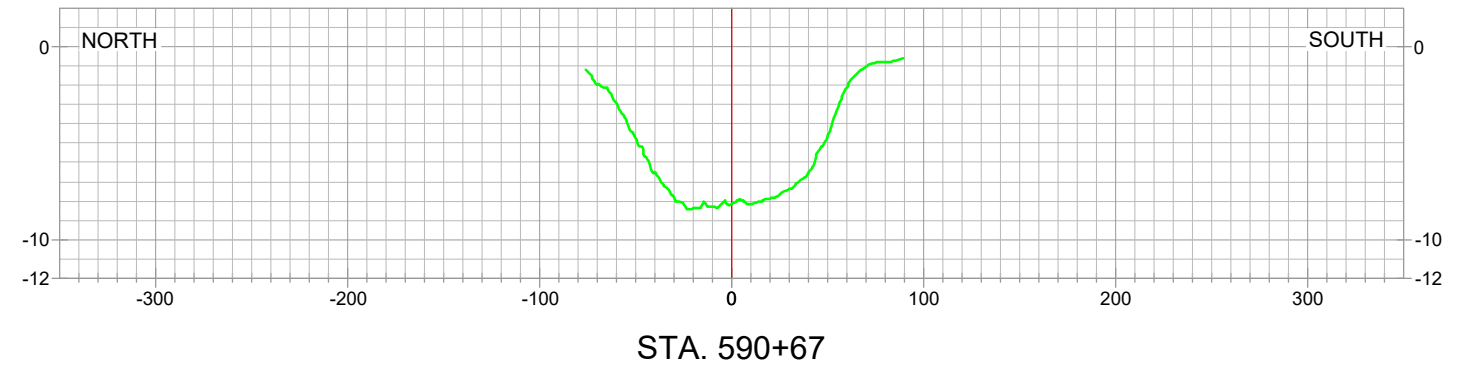
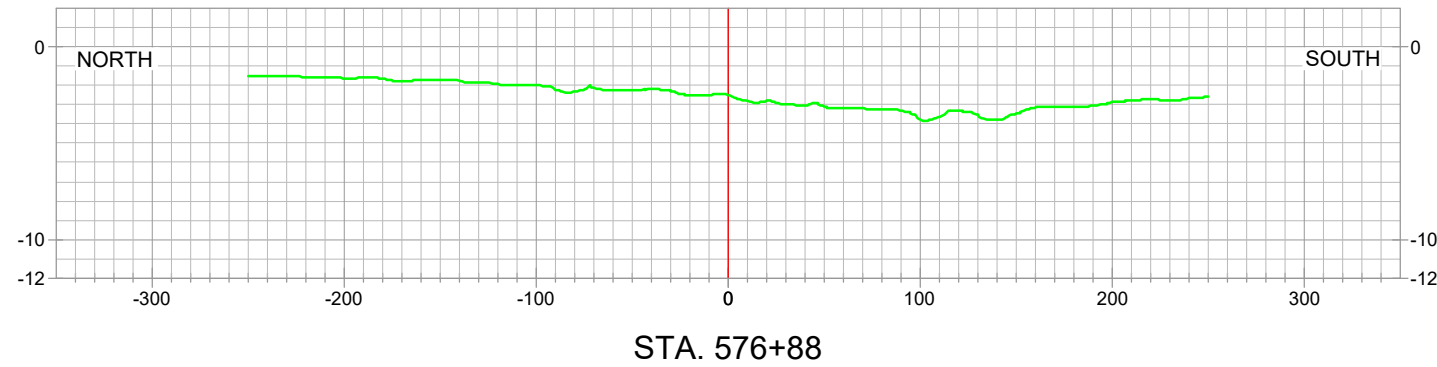
EQUIPMENT ACCESS "B"

**GRAND BAYOU RIDGE AND
MARSH RESTORATION PROJECT
PROJECT NO. BA-0217**

DESIGN SURVEY

CROSS-SECTION VIEWS
PLAQUEMINES PARISH, LA.

SHEET: 60 OF 110



LEGEND	
	PRE-CONSTRUCTION SURVEY
	PROJECT BASELINE / ALIGNMENT

REVISED BY:	DATE:
HORIZONTAL SCALE: 1" = 100'	
VERTICAL SCALE: 1" = 10'	
DATE: 07/09/2020	JOB# 2201006

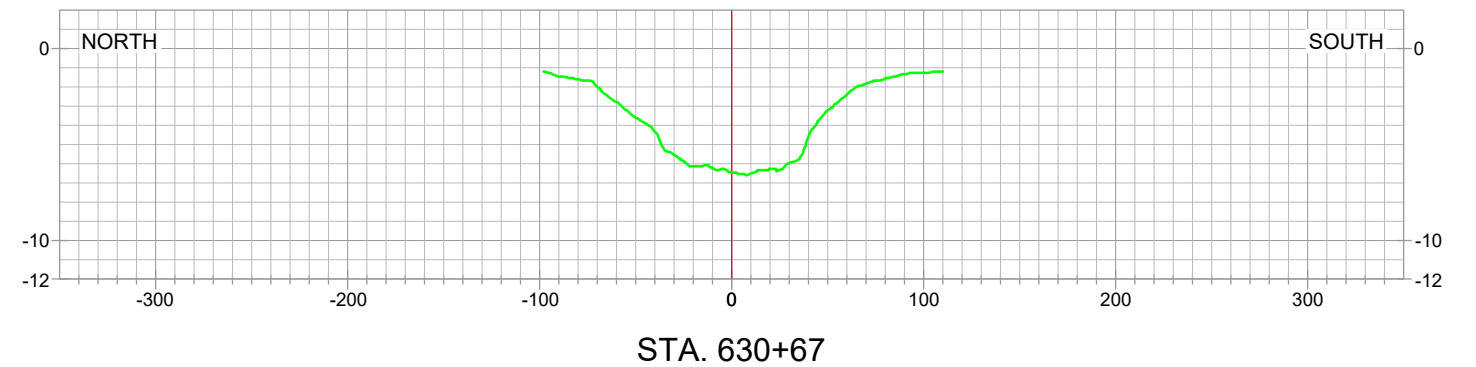
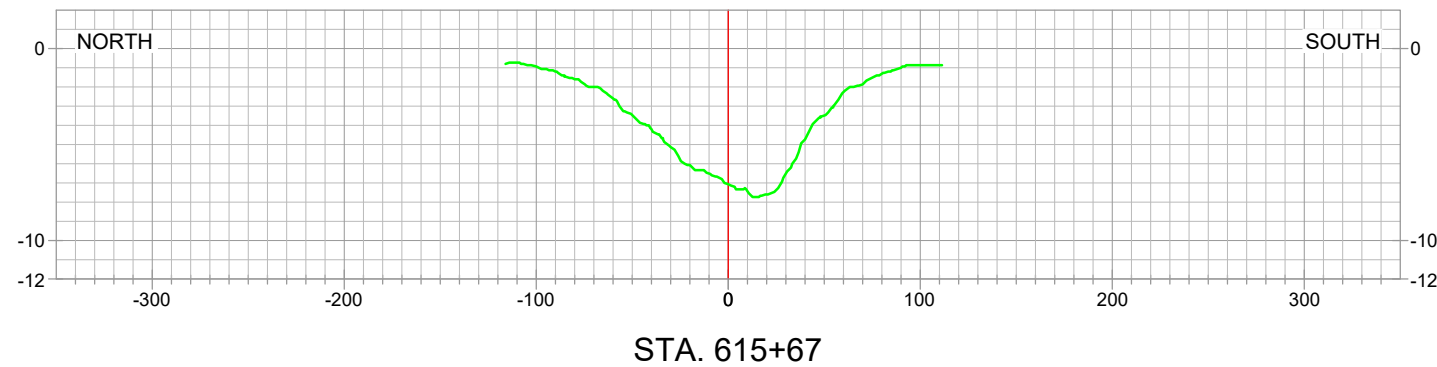
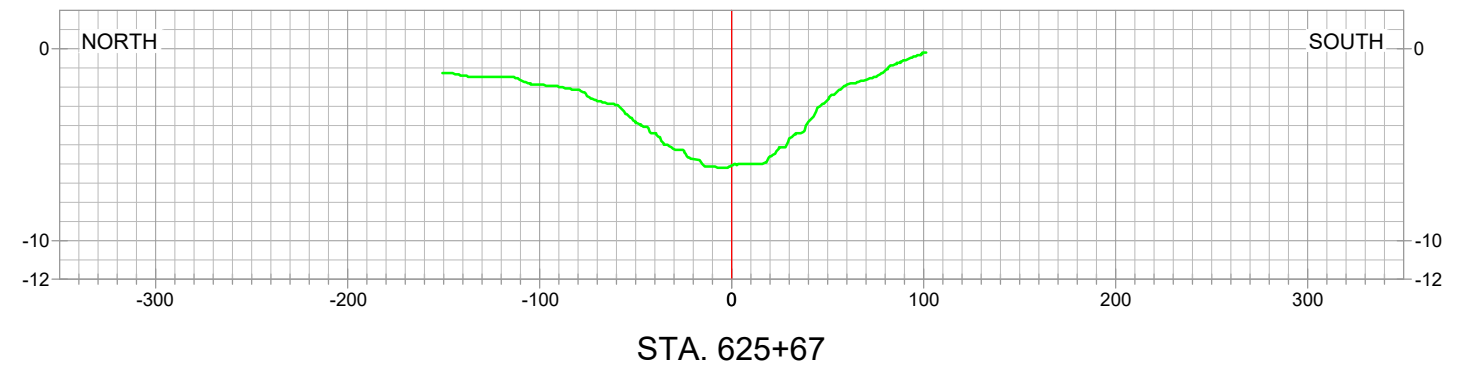
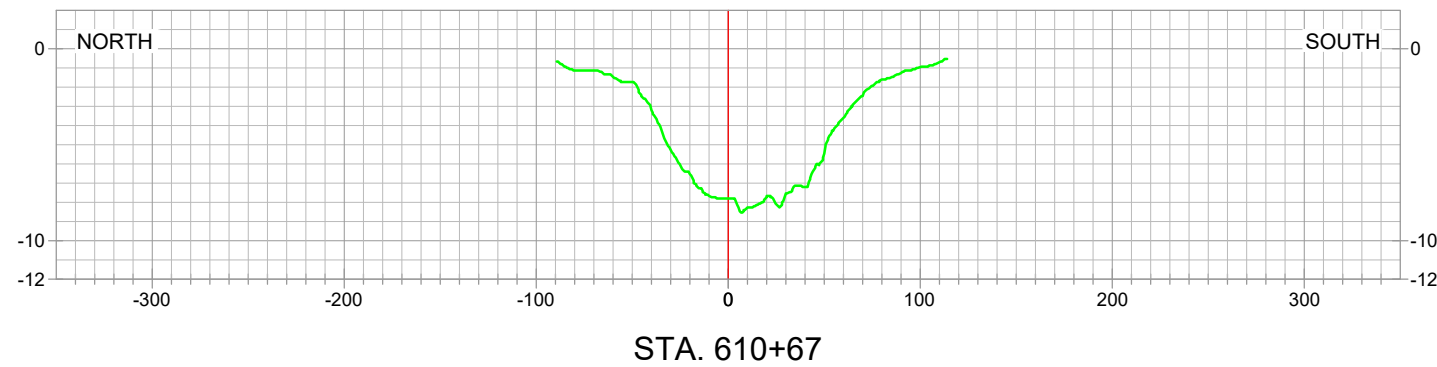
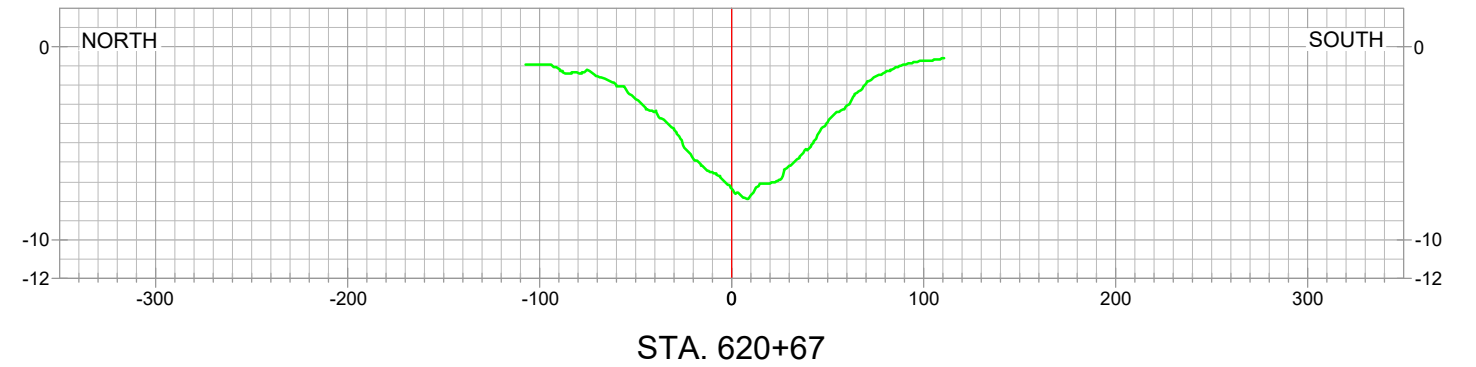
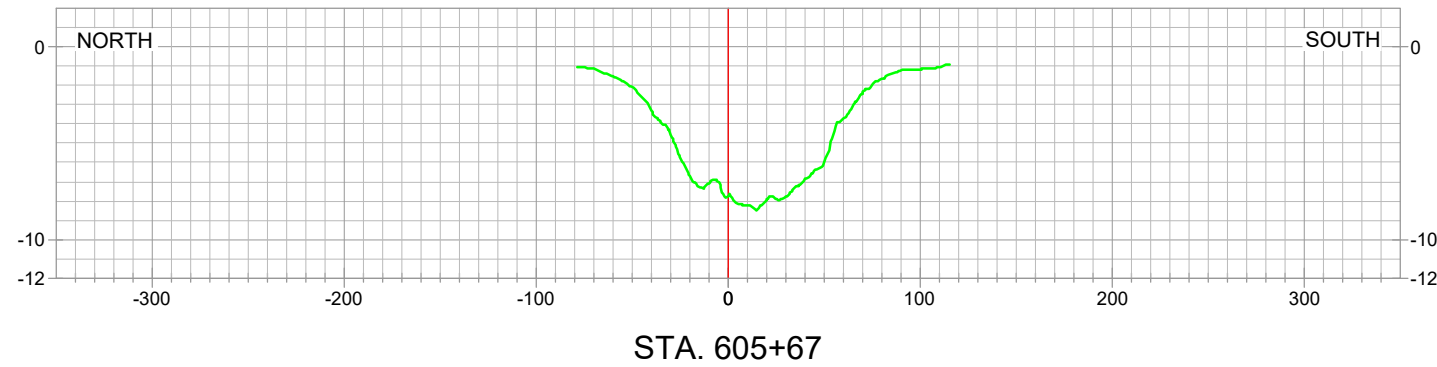
PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

FILE: Grand Bayou BA-0217_Design_EQUIPMENT ACCESS_070920.dwg

EQUIPMENT ACCESS "B"

GRAND BAYOU RIDGE AND
 MARSH RESTORATION PROJECT
 PROJECT NO. BA-0217
DESIGN SURVEY
 CROSS-SECTION VIEWS
 PLAQUEMINES PARISH, LA.

SHEET: 61 OF 110



LEGEND	
	PRE-CONSTRUCTION SURVEY
	PROJECT BASELINE / ALIGNMENT

REVISED BY:	DATE:
HORIZONTAL SCALE: 1" = 100' VERTICAL SCALE: 1" = 10' 	
DATE: 07/09/2020	JOB# 2201006

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

FILE: Grand Bayou BA-0217_Design_EQUIPMENT ACCESS_070920.dwg

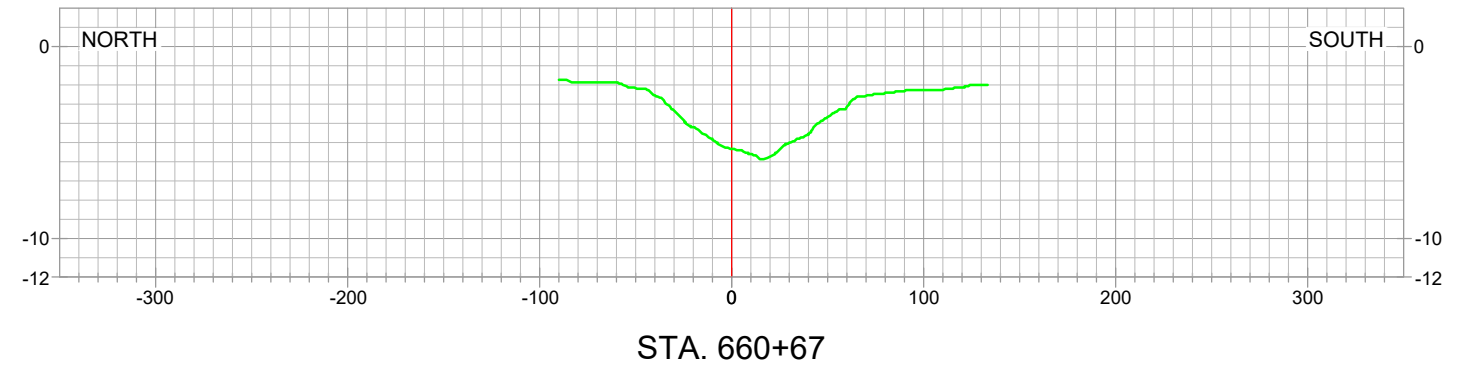
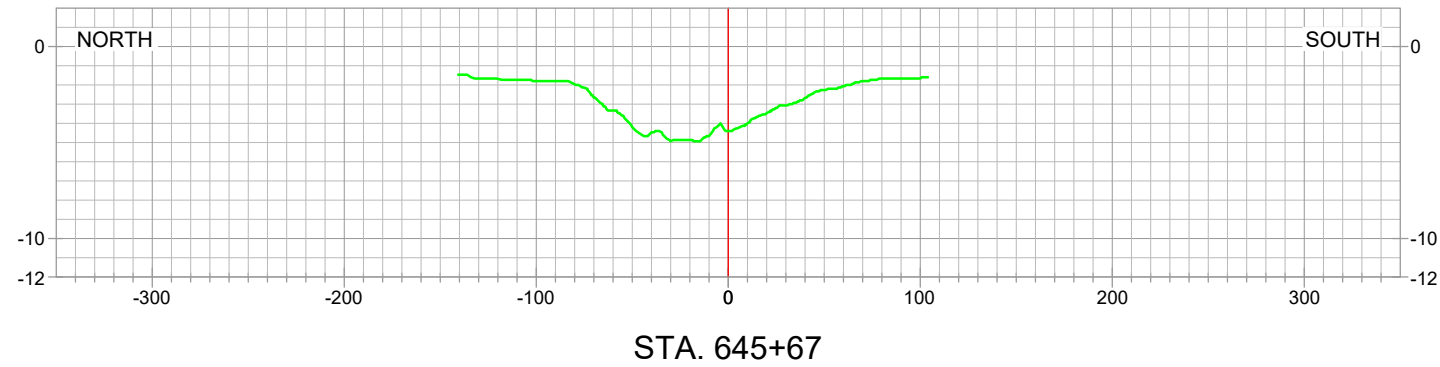
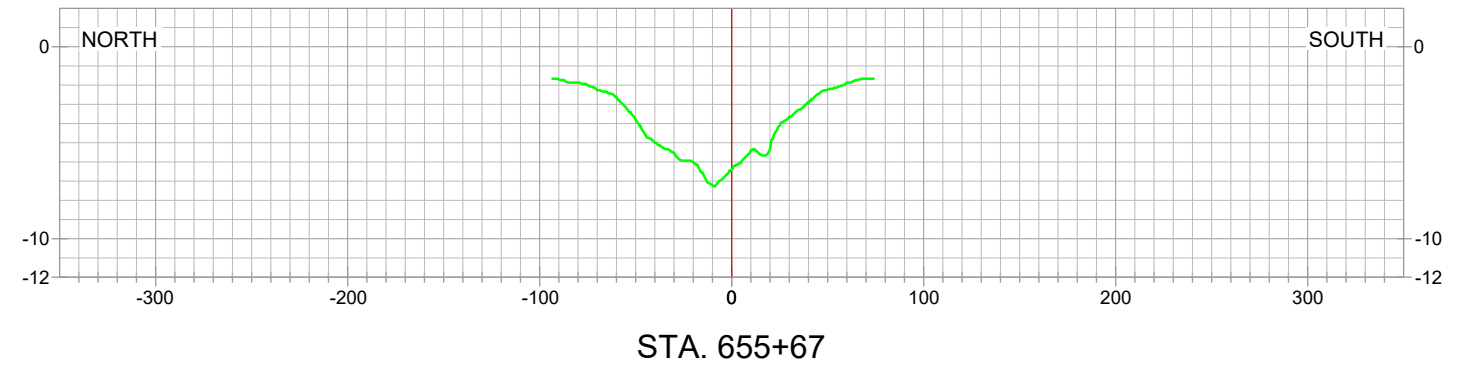
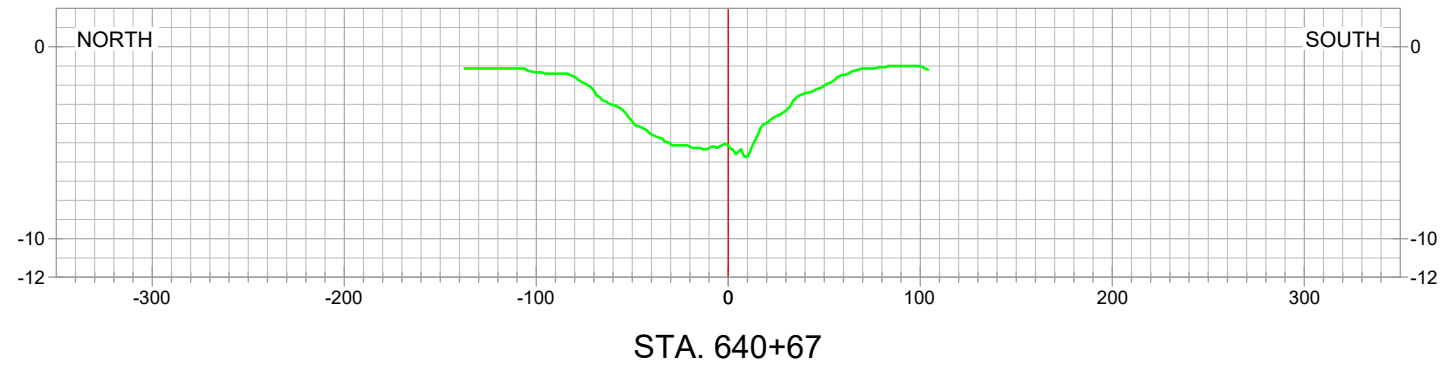
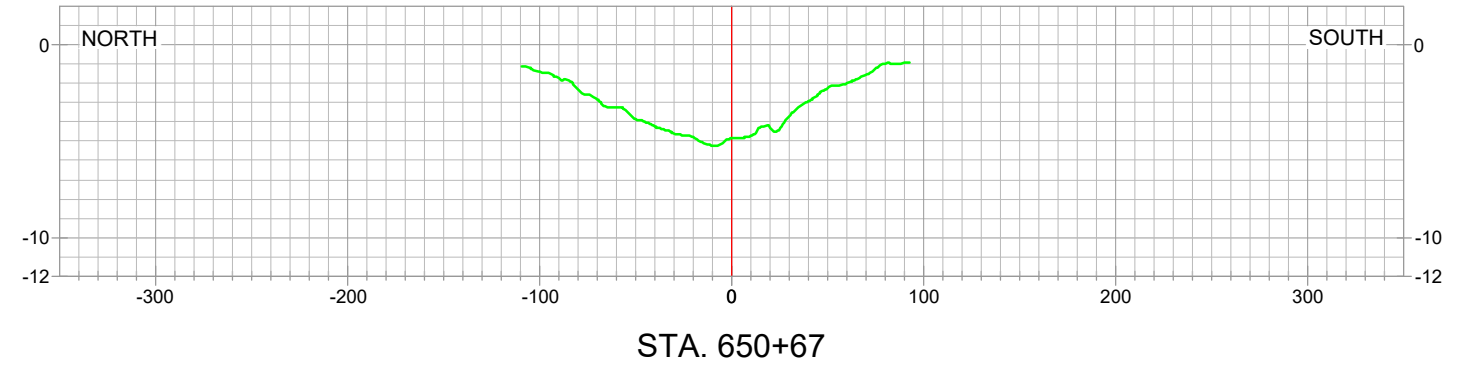
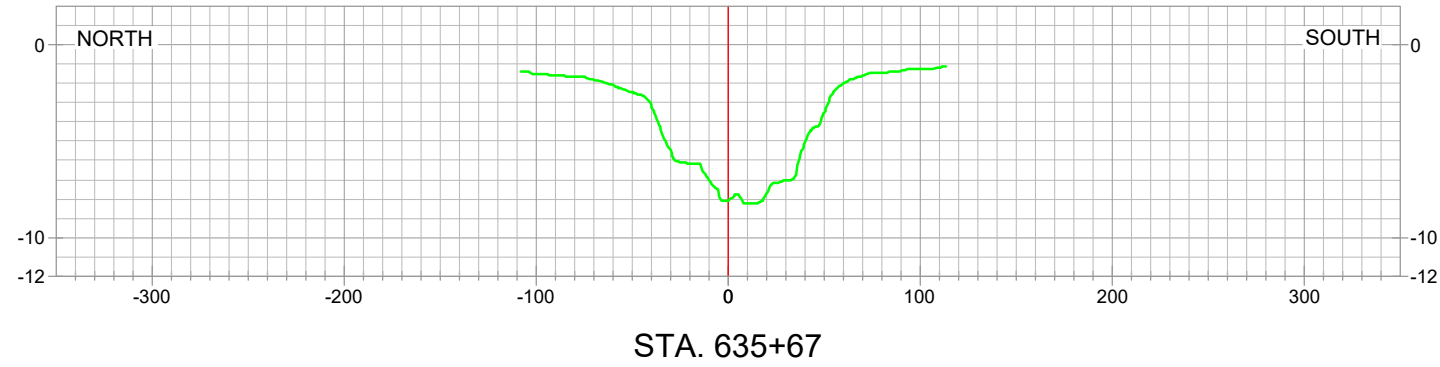
EQUIPMENT ACCESS "B"

GRAND BAYOU RIDGE AND MARSH RESTORATION PROJECT
PROJECT NO. BA-0217

DESIGN SURVEY

CROSS-SECTION VIEWS
PLAQUEMINES PARISH, LA.

SHEET: 62 OF 110

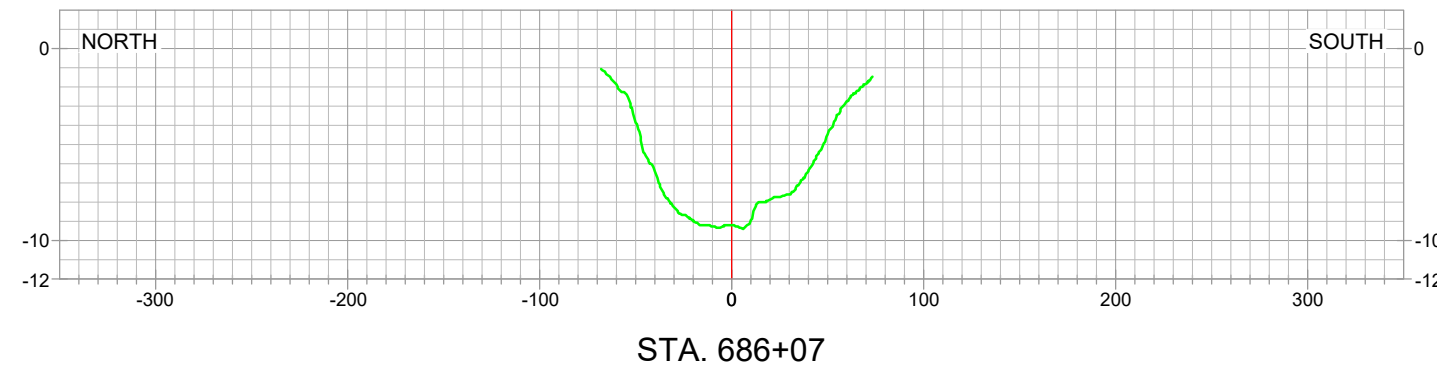
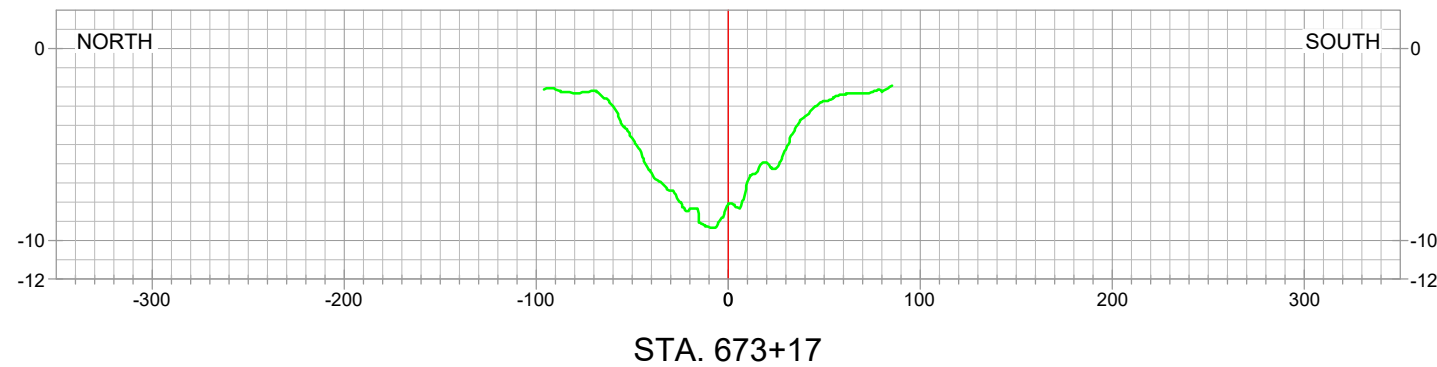
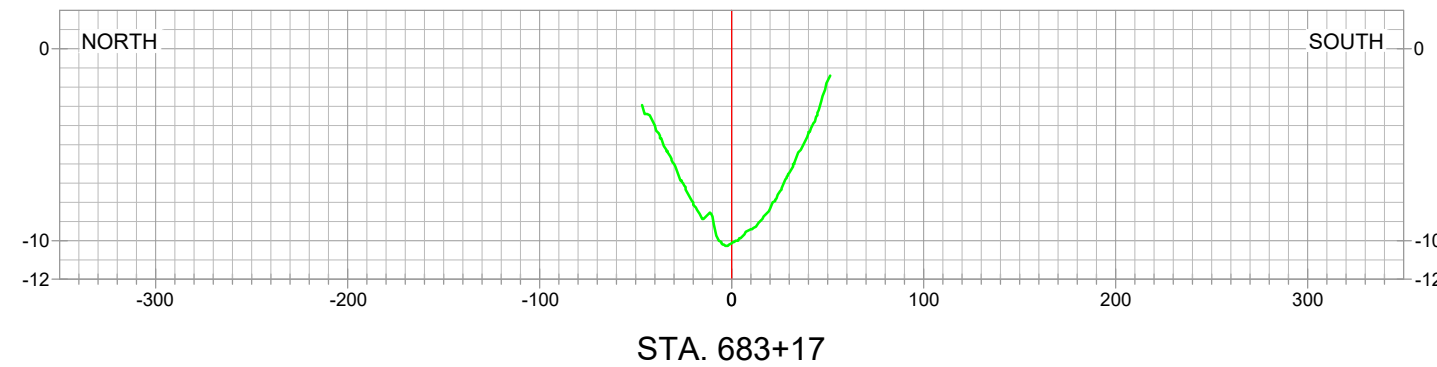
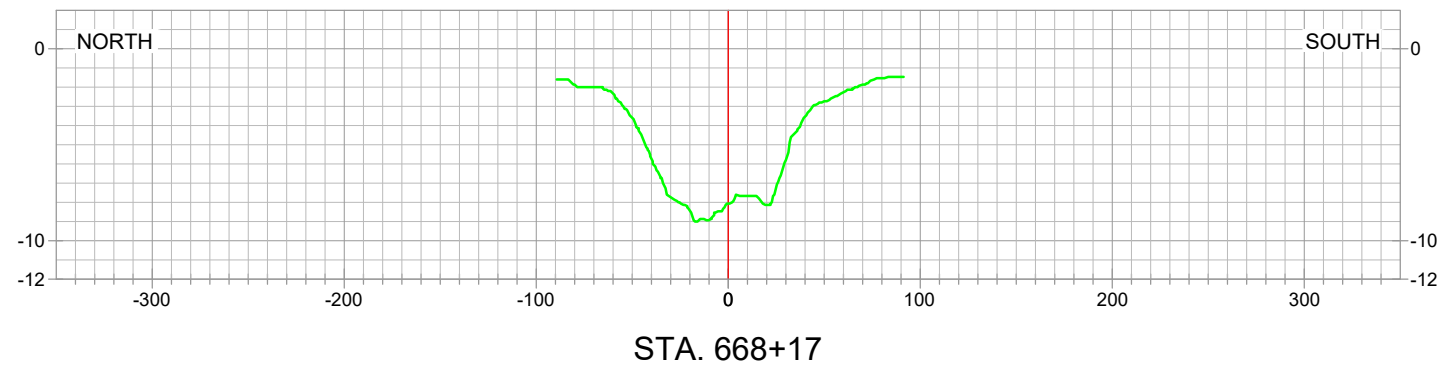
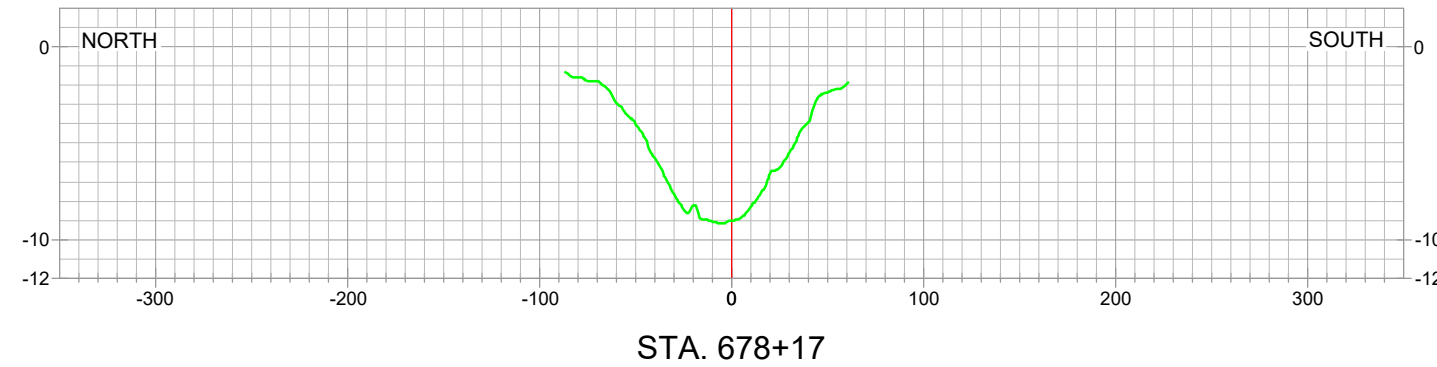
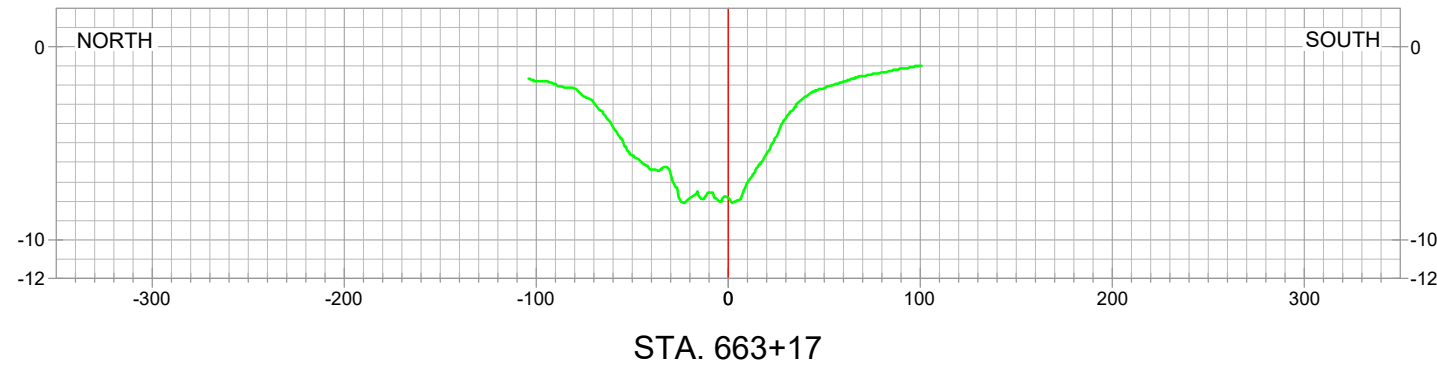


LEGEND	
	PRE-CONSTRUCTION SURVEY
	PROJECT BASELINE / ALIGNMENT

REVISED BY:	DATE:
HORIZONTAL SCALE: 1" = 100' VERTICAL SCALE: 1" = 10' 	
DATE: 07/09/2020	JOB# 2201006



EQUIPMENT ACCESS "B" GRAND BAYOU RIDGE AND MARSH RESTORATION PROJECT PROJECT NO. BA-0217 DESIGN SURVEY CROSS-SECTION VIEWS PLAQUEMINES PARISH, LA.	
PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583 FILE: Grand Bayou BA-0217_Design_EQUIPMENT ACCESS_070920.dwg	SHEET: 63 OF 110

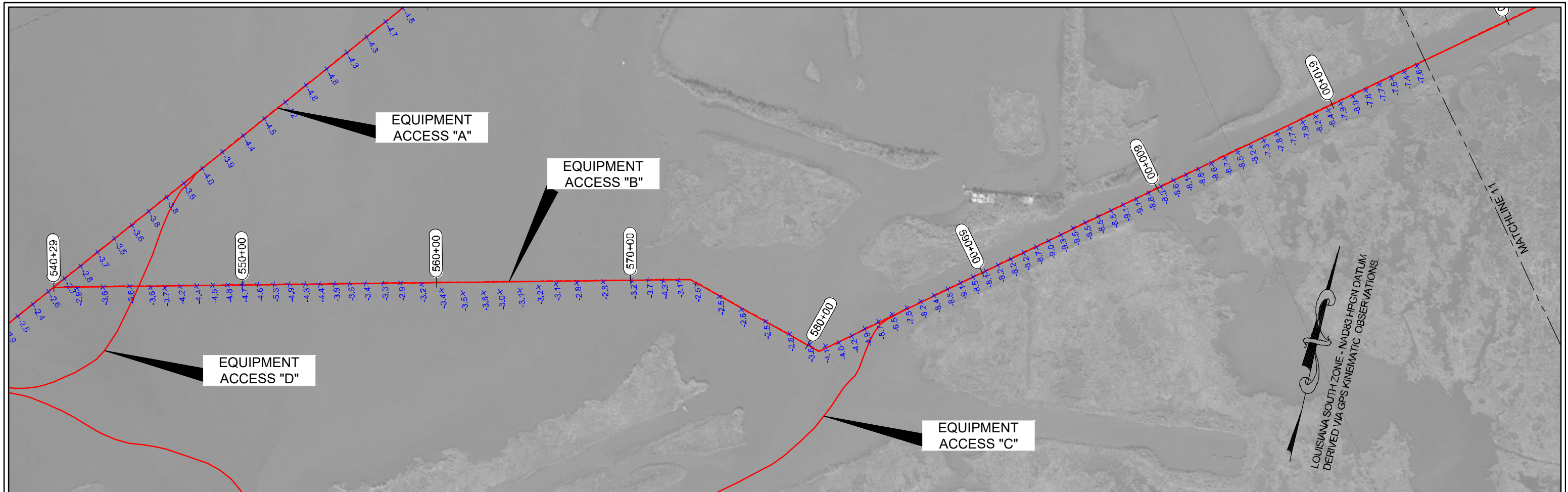


LEGEND	
	PRE-CONSTRUCTION SURVEY
	PROJECT BASELINE / ALIGNMENT

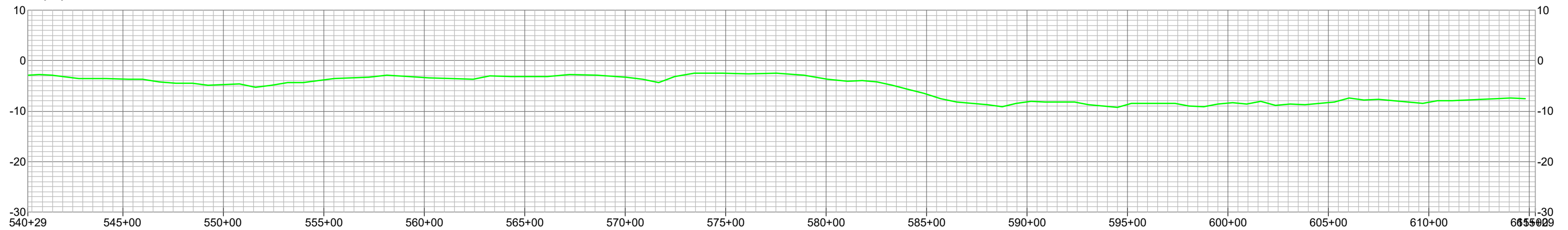
REVISED BY:	DATE:
HORIZONTAL SCALE: 1" = 100'	
VERTICAL SCALE: 1" = 10'	
DATE: 07/09/2020	JOB# 2201006



EQUIPMENT ACCESS "B"	
GRAND BAYOU RIDGE AND MARSH RESTORATION PROJECT PROJECT NO. BA-0217 <i>DESIGN SURVEY</i> CROSS-SECTION VIEWS PLAQUEMINES PARISH, LA.	
PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583	
FILE: Grand Bayou BA-0217_Design_EQUIPMENT ACCESS_070920.dwg	SHEET: 64 OF 110



Equipment Access B



EQUIPMENT ACCESS "B"

GRAND BAYOU RIDGE AND
MARSH RESTORATION PROJECT
PROJECT NO. BA-0217

DESIGN SURVEY

PLAN / PROFILE VIEWS
PLAQUEMINES PARISH, LA.



LEGEND—PLAN VIEW

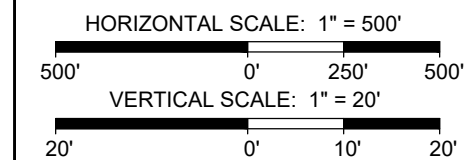
- PROJECT BASELINE / ALIGNMENT
- MARSH CREATION AREA
PROJECT: BA-0217
- MARSH CREATION AREA
PROJECT: BA-0240
- ELEVATIONS IN FEET (NAVD88)

LEGEND

- DESIGN SURVEY

REVISED BY:

DATE:



DATE: 07/09/2020

JOB# 2201006



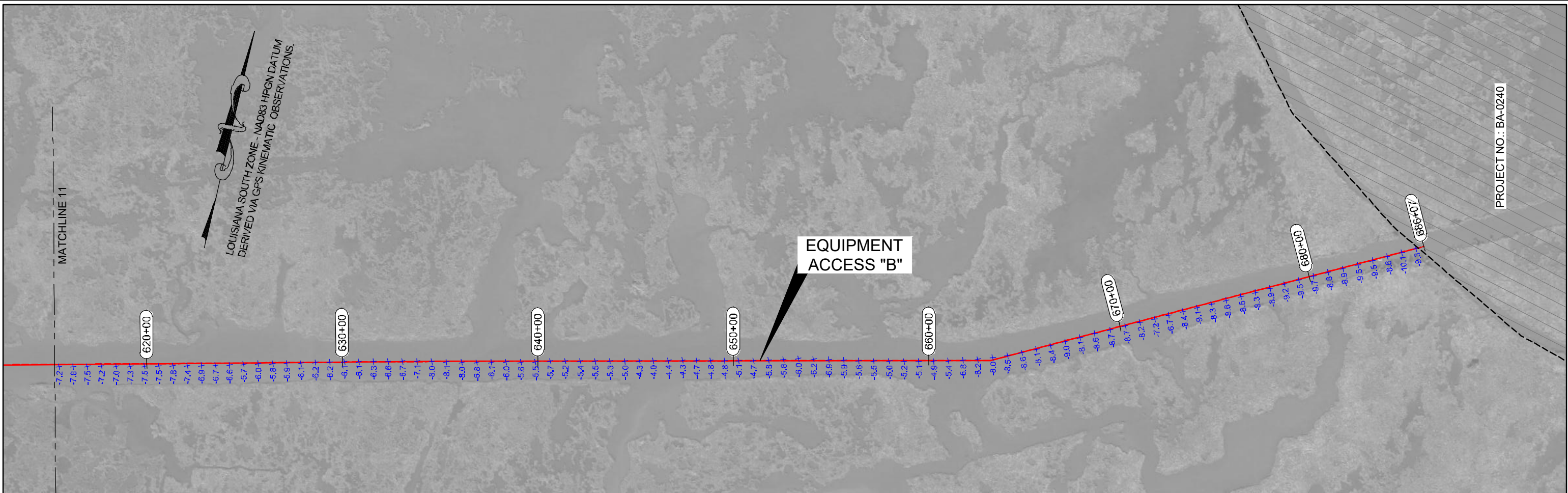
HYDROTERRA



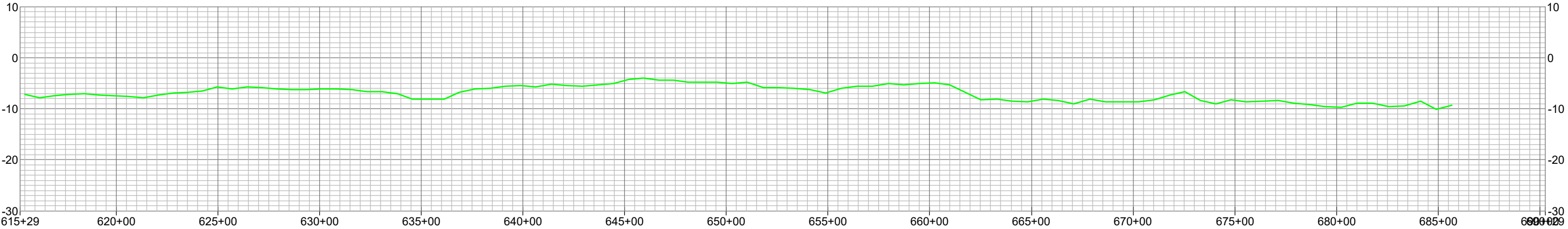
PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Grand Bayou BA-0217_Design_EQUIPMENT ACCESS_070920.dwg

SHEET: 65 OF 110



Equipment Access B



LEGEND—PLAN VIEW	
	PROJECT BASELINE / ALIGNMENT
	MARSH CREATION AREA PROJECT: BA-0217
	MARSH CREATION AREA PROJECT: BA-0240
	ELEVATIONS IN FEET (NAVD88)

LEGEND	
	DESIGN SURVEY

REVISED BY:	DATE:
HORIZONTAL SCALE: 1" = 500'	
VERTICAL SCALE: 1" = 20'	
DATE: 07/09/2020	JOB# 2201006

**HYDROTERRA**



PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

EQUIPMENT ACCESS "B"

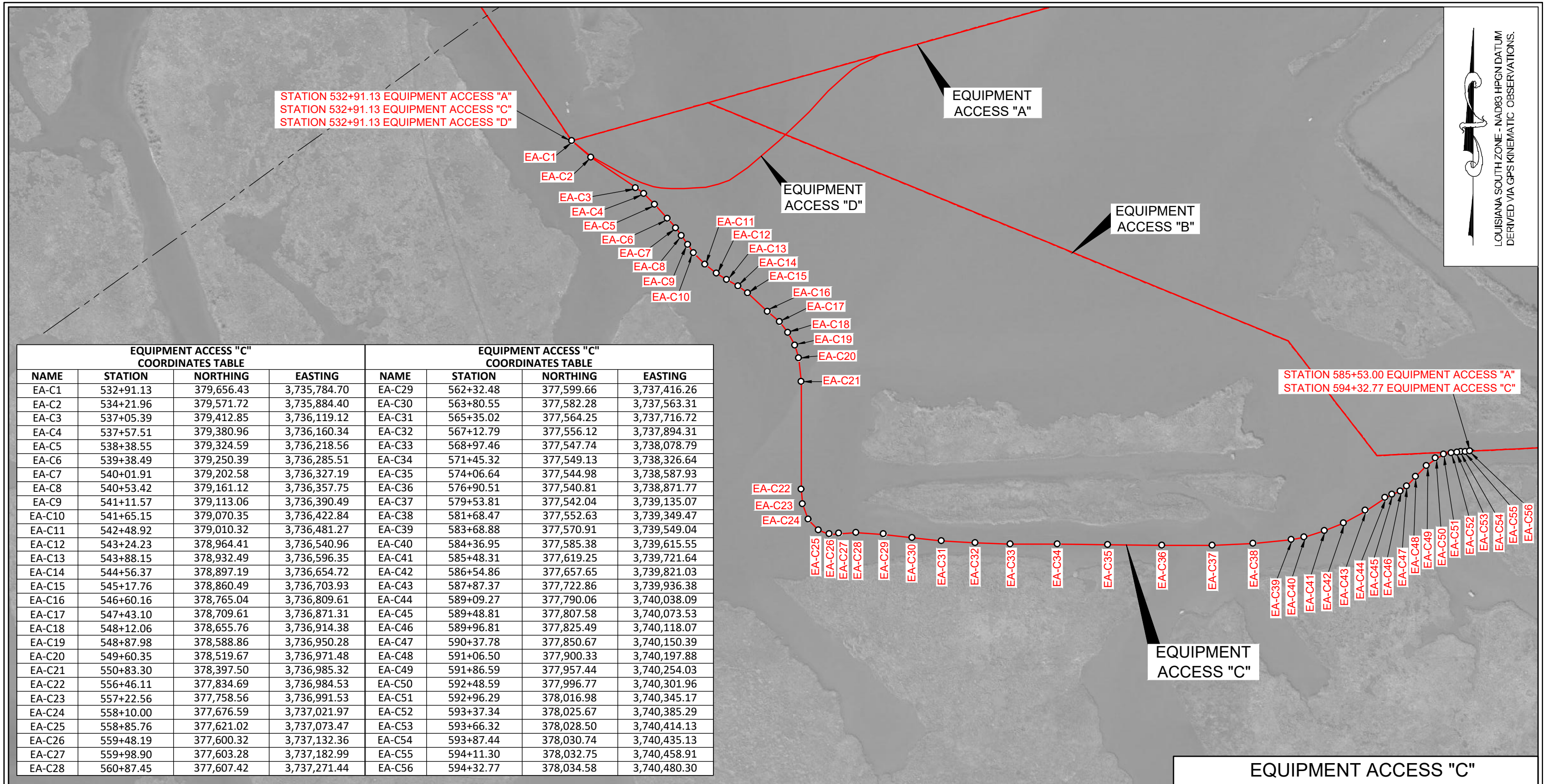
GRAND BAYOU RIDGE AND
MARSH RESTORATION PROJECT
PROJECT NO. BA-0217

DESIGN SURVEY

PLAN / PROFILE VIEWS
PLAQUEMINES PARISH, LA.

FILE: Grand Bayou BA-0217_Design_EQUIPMENT ACCESS_070920.dwg

SHEET: 66 OF 110



EQUIPMENT ACCESS "C" COORDINATES TABLE				EQUIPMENT ACCESS "C" COORDINATES TABLE			
NAME	STATION	NORTHING	EASTING	NAME	STATION	NORTHING	EASTING
EA-C1	532+91.13	379,656.43	3,735,784.70	EA-C29	562+32.48	377,599.66	3,737,416.26
EA-C2	534+21.96	379,571.72	3,735,884.40	EA-C30	563+80.55	377,582.28	3,737,563.31
EA-C3	537+05.39	379,412.85	3,736,119.12	EA-C31	565+35.02	377,564.25	3,737,716.72
EA-C4	537+57.51	379,380.96	3,736,160.34	EA-C32	567+12.79	377,556.12	3,737,894.31
EA-C5	538+38.55	379,324.59	3,736,218.56	EA-C33	568+97.46	377,547.74	3,738,078.79
EA-C6	539+38.49	379,250.39	3,736,285.51	EA-C34	571+45.32	377,549.13	3,738,326.64
EA-C7	540+01.91	379,202.58	3,736,327.19	EA-C35	574+06.64	377,544.98	3,738,587.93
EA-C8	540+53.42	379,161.12	3,736,357.75	EA-C36	576+90.51	377,540.81	3,738,871.77
EA-C9	541+11.57	379,113.06	3,736,390.49	EA-C37	579+53.81	377,542.04	3,739,135.07
EA-C10	541+65.15	379,070.35	3,736,422.84	EA-C38	581+68.47	377,552.63	3,739,349.47
EA-C11	542+48.92	379,010.32	3,736,481.27	EA-C39	583+68.88	377,570.91	3,739,549.04
EA-C12	543+24.23	378,964.41	3,736,540.96	EA-C40	584+36.95	377,585.38	3,739,615.55
EA-C13	543+88.15	378,932.49	3,736,596.35	EA-C41	585+48.31	377,619.25	3,739,721.64
EA-C14	544+56.37	378,897.19	3,736,654.72	EA-C42	586+54.86	377,657.65	3,739,821.03
EA-C15	545+17.76	378,860.49	3,736,703.93	EA-C43	587+87.37	377,722.86	3,739,936.38
EA-C16	546+60.16	378,765.04	3,736,809.61	EA-C44	589+09.27	377,790.06	3,740,038.09
EA-C17	547+43.10	378,709.61	3,736,871.31	EA-C45	589+48.81	377,807.58	3,740,073.53
EA-C18	548+12.06	378,655.76	3,736,914.38	EA-C46	589+96.81	377,825.49	3,740,118.07
EA-C19	548+87.98	378,588.86	3,736,950.28	EA-C47	590+37.78	377,850.67	3,740,150.39
EA-C20	549+60.35	378,519.67	3,736,971.48	EA-C48	591+06.50	377,900.33	3,740,197.88
EA-C21	550+83.30	378,397.50	3,736,985.32	EA-C49	591+86.59	377,957.44	3,740,254.03
EA-C22	556+46.11	377,834.69	3,736,984.53	EA-C50	592+48.59	377,996.77	3,740,301.96
EA-C23	557+22.56	377,758.56	3,736,991.53	EA-C51	592+96.29	378,016.98	3,740,345.17
EA-C24	558+10.00	377,676.59	3,737,021.97	EA-C52	593+37.34	378,025.67	3,740,385.29
EA-C25	558+85.76	377,621.02	3,737,073.47	EA-C53	593+66.32	378,028.50	3,740,414.13
EA-C26	559+48.19	377,600.32	3,737,132.36	EA-C54	593+87.44	378,030.74	3,740,435.13
EA-C27	559+98.90	377,603.28	3,737,182.99	EA-C55	594+11.30	378,032.75	3,740,458.91
EA-C28	560+87.45	377,607.42	3,737,271.44	EA-C56	594+32.77	378,034.58	3,740,480.30



LEGEND

PROJECT BASELINE/ALIGNMENT

REVISED BY:	DATE:
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HYDROTERRA



EQUIPMENT ACCESS "C"

GRAND BAYOU RIDGE AND
MARSH RESTORATION PROJECT
PROJECT NO. BA-0217

DESIGN SURVEY

ALIGNMENT PLAN VIEW
PLAQUEMINES PARISH, LA.

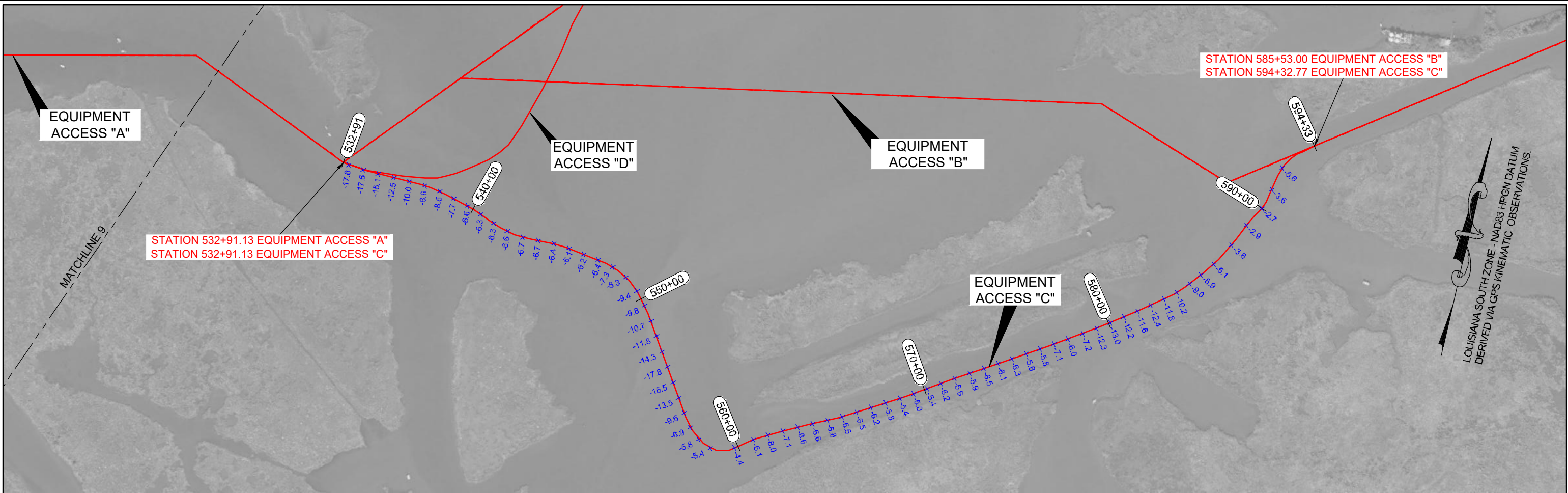
PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

DATE: 07/09/2020

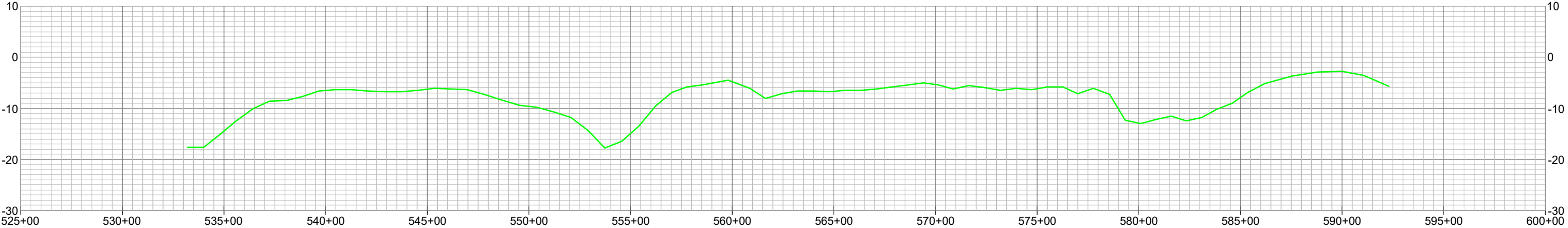
JOB#	2201006
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FILE: Grand Bayou BA-0217_Design_EQUIPMENT ACCESS_070920.dwg

SHEET: 67 OF 110



Equipment Access C



EQUIPMENT ACCESS "C"



LEGEND—PLAN VIEW	
	PROJECT BASELINE / ALIGNMENT
	MARSH CREATION AREA PROJECT: BA-0217
	MARSH CREATION AREA PROJECT: BA-0240
	ELEVATIONS IN FEET (NAVD88)

LEGEND	
	DESIGN SURVEY

REVISED BY:	DATE:
HORIZONTAL SCALE	
VERTICAL SCALE	
DATE: 07/09/2020	JOB# 2201006



GRAND BAYOU RIDGE AND
MARSH RESTORATION PROJECT
PROJECT NO. BA-0217
DESIGN SURVEY
PLAN / PROFILE VIEWS
PLAQUEMINES PARISH, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Grand Bayou BA-0217_Design_EQUIPMENT ACCESS_070920.dwg

SHEET: 68 OF 110



LOUISIANA SOUTH ZONE - NAD83 HPGN DATUM
DERIVED VIA GPS KINEMATIC OBSERVATIONS.

MATCHLINE 9

STATION 532+91.13 EQUIPMENT ACCESS "A"
STATION 532+91.13 EQUIPMENT ACCESS "C"
STATION 532+91.13 EQUIPMENT ACCESS "D"

STATION 540+28.67 EQUIPMENT ACCESS "A"
STATION 540+28.67 EQUIPMENT ACCESS "B"

STATION 549+62.01 EQUIPMENT ACCESS "A"
STATION 553+05.42 EQUIPMENT ACCESS "D"

EQUIPMENT
ACCESS "A"

EQUIPMENT
ACCESS "B"

EQUIPMENT
ACCESS "D"

EQUIPMENT
ACCESS "C"

EQUIPMENT ACCESS "D" COORDINATES TABLE			
NAME	STATION	NORTHING	EASTING
EA-D1	533+79.78	379,656.43	3,735,784.70
ED-D2	534+94.53	379,584.43	3,735,874.05
EA-D3	535+18.86	379,571.20	3,735,894.47
EA-D4	536+91.06	379,487.32	3,736,044.85
EA-D5	537+65.64	379,453.36	3,736,111.25
EA-D6	538+08.78	379,435.75	3,736,150.64
EA-D7	538+71.60	379,416.81	3,736,210.53
EA-D8	539+14.36	379,409.52	3,736,252.67
EA-D9	539+66.57	379,406.06	3,736,304.76
EA-D10	540+32.92	379,406.77	3,736,371.11
EA-D11	540+83.43	379,409.04	3,736,421.57
EA-D12	541+48.21	379,414.90	3,736,486.08
EA-D13	542+15.85	379,428.84	3,736,552.27
EA-D14	542+75.31	379,450.33	3,736,607.71
EA-D15	543+94.22	379,518.06	3,736,705.45
EA-D16	546+09.48	379,658.27	3,736,868.78
EA-D17	548+24.36	379,805.99	3,737,024.83
EA-D18	549+74.19	379,916.84	3,737,125.64
EA-D19	550+66.24	379,979.13	3,737,193.41
EA-D20	551+42.43	380,028.34	3,737,251.57
EA-D21	551+94.81	380,056.85	3,737,295.52
EA-D22	552+52.97	380,078.96	3,737,349.31
EA-D23	553+05.42	380,106.87	3,737,393.72

LEGEND

— PROJECT BASELINE/ALIGNMENT

REVISED BY:

DATE:

HORIZONTAL SCALE
1" = 200'

200' 0' 100' 200'



HYDROTERRA



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DATE: 07/09/2020

JOB# 2201006

FILE: Grand Bayou BA-0217_Design_EQUIPMENT ACCESS_070920.dwg

SHEET: 69 OF 110

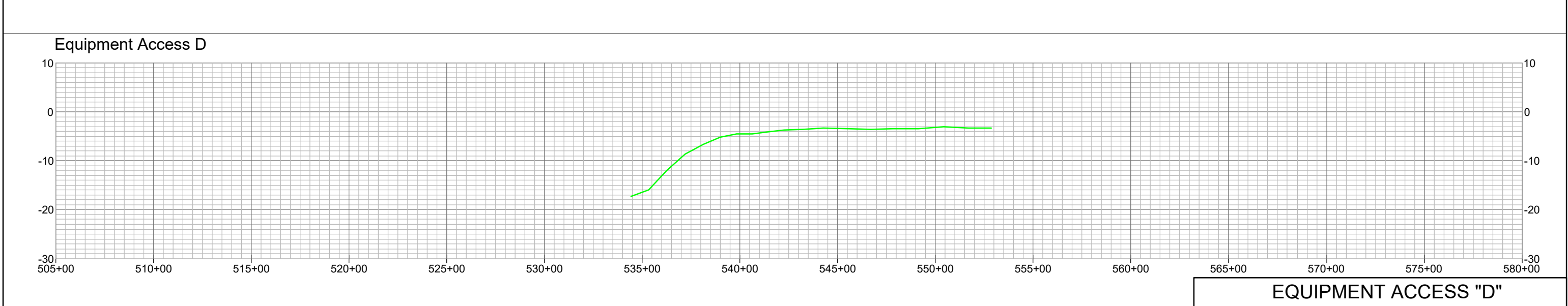
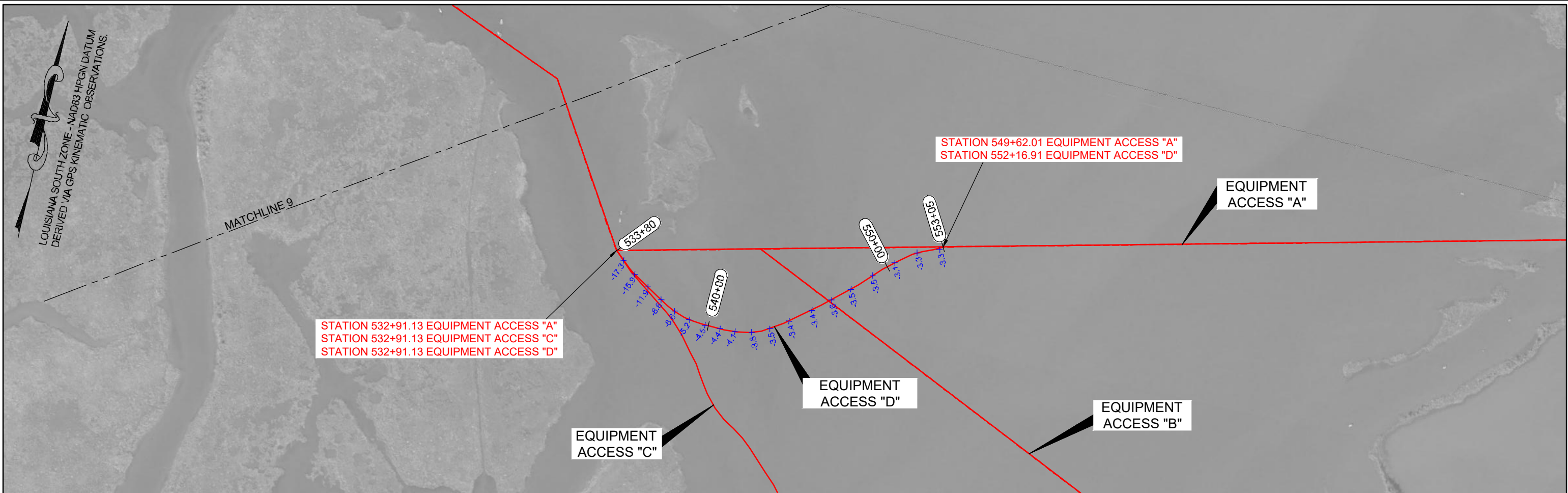
EQUIPMENT ACCESS "D"

GRAND BAYOU RIDGE AND
MARSH RESTORATION PROJECT
PROJECT NO. BA-0217

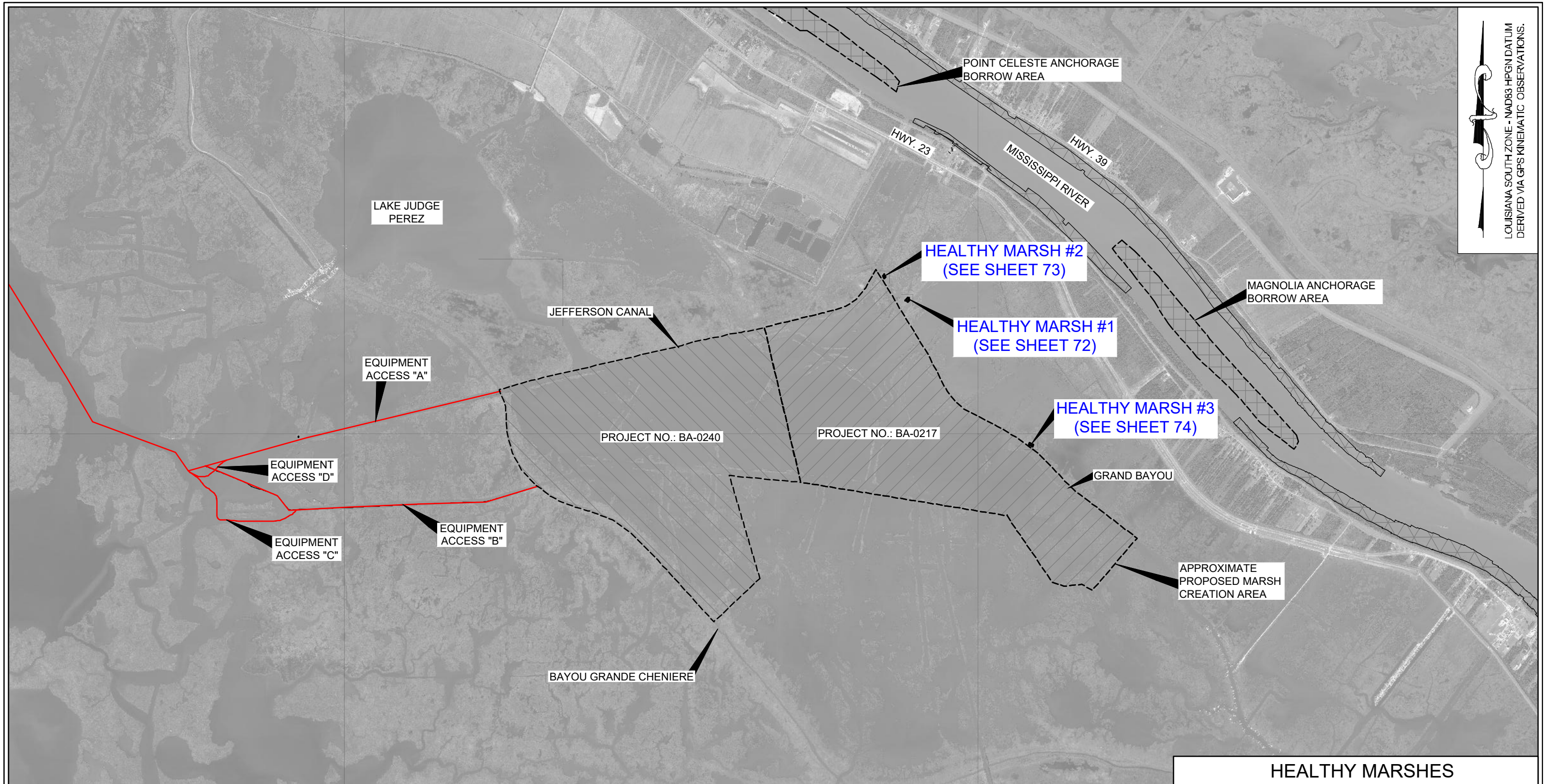
DESIGN SURVEY

ALIGNMENT PLAN VIEW
PLAQUEMINES PARISH, LA.





	LEGEND—PLAN VIEW	LEGEND	REVISED BY:	DATE:	 	EQUIPMENT ACCESS "D" GRAND BAYOU RIDGE AND MARSH RESTORATION PROJECT PROJECT NO. BA-0217 <i>DESIGN SURVEY</i> PLAN / PROFILE VIEWS PLAQUEMINES PARISH, LA.
	PROJECT BASELINE / ALIGNMENT	DESIGN SURVEY				
	MARSH CREATION AREA PROJECT: BA-0217					
	MARSH CREATION AREA PROJECT: BA-0240					
	+1.0 ELEVATIONS IN FEET (NAVD88)		 		PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583	SHEET: 70 OF 110
			DATE: 07/09/2020	JOB# 2201006	FILE: Grand Bayou BA-0217_Design_EQUIPMENT ACCESS_070920.dwg	



LOUISIANA SOUTH ZONE - NAD83 HPGN DATUM
DERIVED VIA GPS KINEMATIC OBSERVATIONS.



LEGEND	
	PROJECT BASELINE/ALIGNMENT
	MARSH CREATION AREA PROJECT: BA-0217
	MARSH CREATION AREA PROJECT: BA-0240

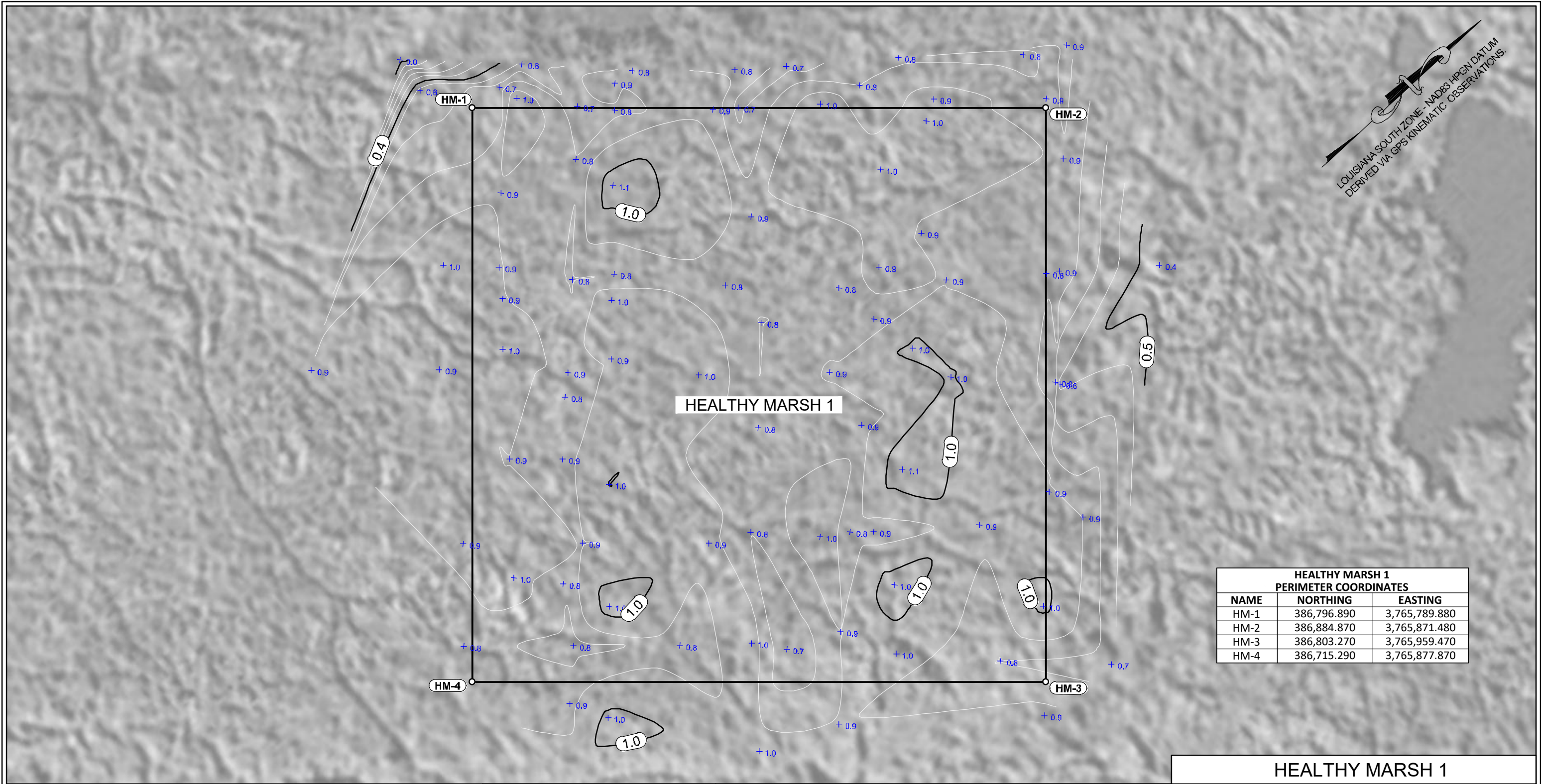
REVISED BY:	DATE:
HORIZONTAL SCALE 1" = 4000'	
DATE: 07/09/2020	JOB# 2201006

**HYDROTERRA**



PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

HEALTHY MARSHES	
GRAND BAYOU RIDGE AND MARSH RESTORATION PROJECT PROJECT NO. BA-0217	
DESIGN SURVEY	
PARTIAL OVERALL PLAN VIEW PLAQUEMINES PARISH, LA.	
FILE: Grand Bayou BA-0217_Design_HEALTHY MARSHES_070920.dwg	SHEET: 71 OF 110



HEALTHY MARSH 1 PERIMETER COORDINATES		
NAME	NORTHING	EASTING
HM-1	386,796.890	3,765,789.880
HM-2	386,884.870	3,765,871.480
HM-3	386,803.270	3,765,959.470
HM-4	386,715.290	3,765,877.870



LEGEND	
	PROJECT BASELINE/ALIGNMENT
	HEALTHY MARSH PERIMETER
	CONTOURS 0.1' INTERVALS ELEV. IN FEET NAVD88

REVISED BY:	DATE:
HORIZONTAL SCALE 1" = 20'	
DATE: 07/09/2020	JOB# 2201006



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FILE: Grand Bayou BA-0217_Design_HEALTHY MARSHES_070920.dwg

HEALTHY MARSH 1

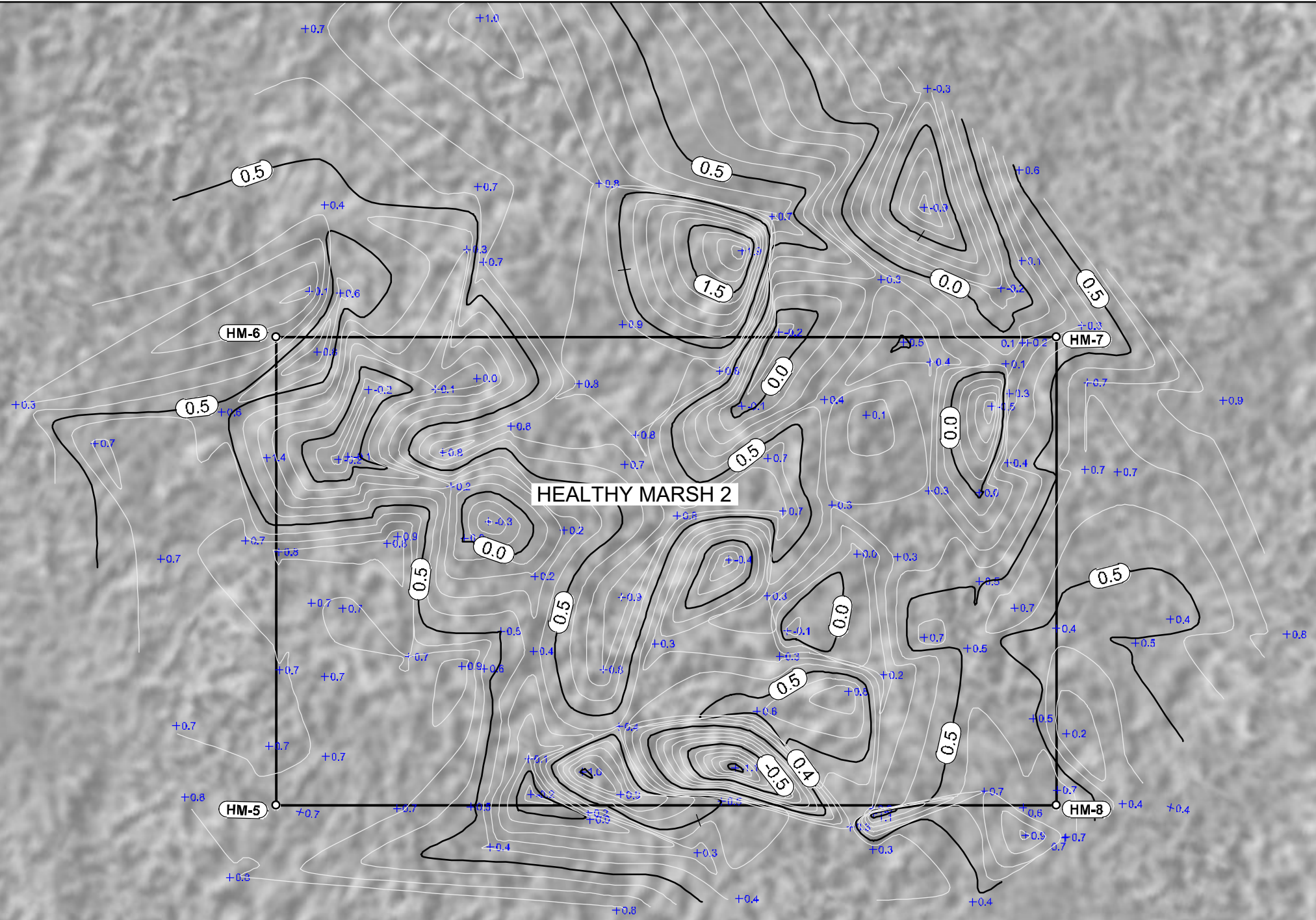
GRAND BAYOU RIDGE AND
MARSH RESTORATION PROJECT
PROJECT NO. BA-0217

DESIGN SURVEY

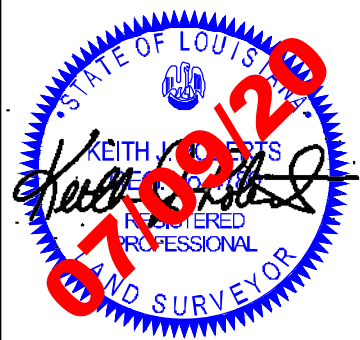
SURVEY PLAN VIEW
PLAQUEMINES PARISH, LA.

SHEET: 72 OF 110

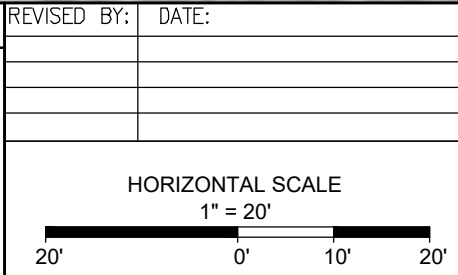
LOUISIANA SOUTH ZONE - NAD83 HPGN DATUM
DERIVED VIA GPS KINEMATIC OBSERVATIONS.



HEALTHY MARSH 2 PERIMETER COORDINATES		
NAME	NORTHING	EASTING
HM-5	387,814.940	3,764,832.610
HM-6	387,850.100	3,764,898.860
HM-7	387,739.680	3,764,957.450
HM-8	387,704.530	3,764,891.200



- LEGEND
- PROJECT BASELINE/ALIGNMENT
 - HEALTHY MARSH PERIMETER
 - CONTOURS
0.1' INTERVALS
ELEV. IN FEET NAVD88

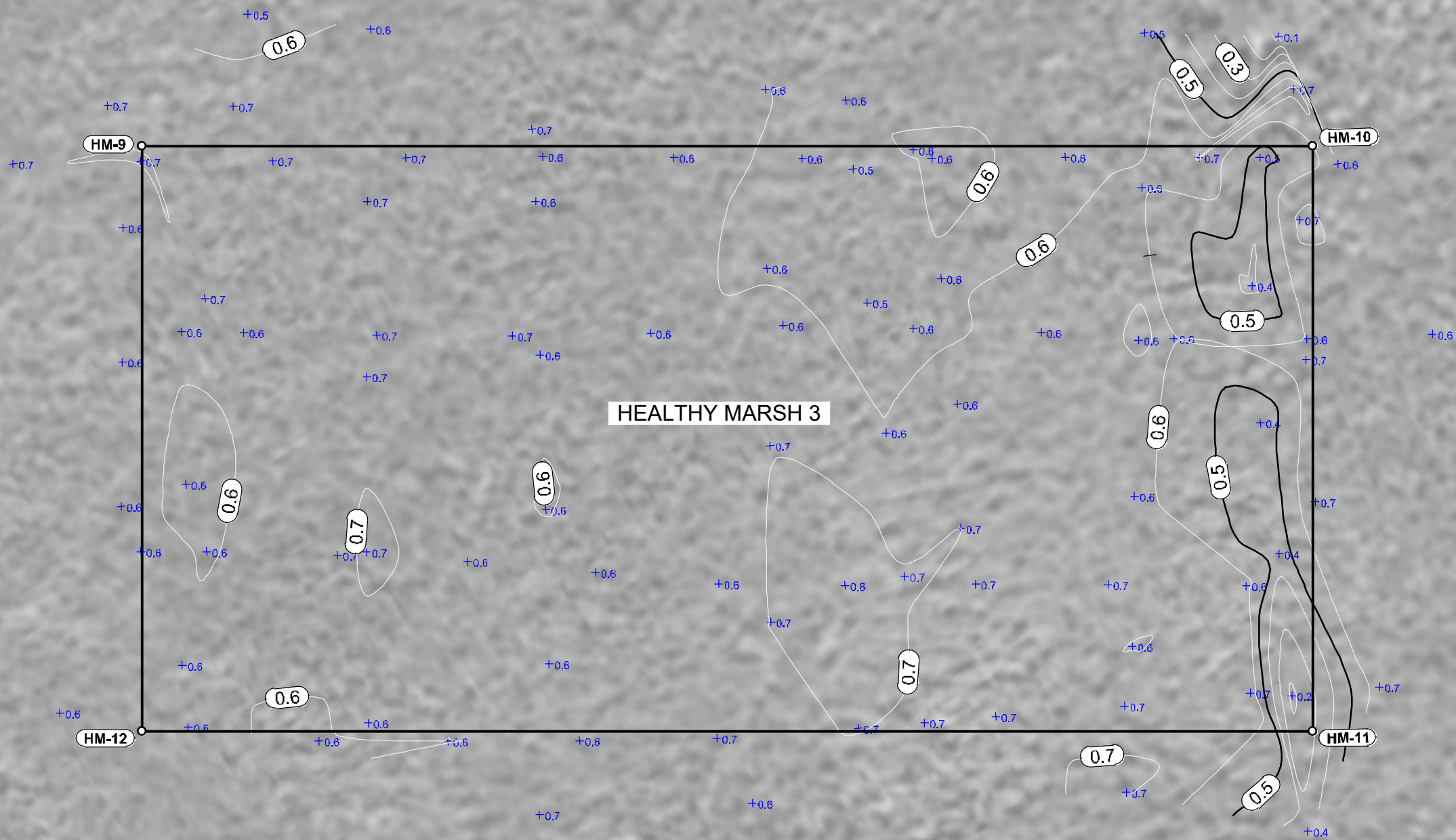


HEALTHY MARSH 2

**GRAND BAYOU RIDGE AND
MARSH RESTORATION PROJECT**
PROJECT NO. BA-0217

DESIGN SURVEY

SURVEY PLAN VIEW
PLAQUEMINES PARISH, LA.



HEALTHY MARSH 3

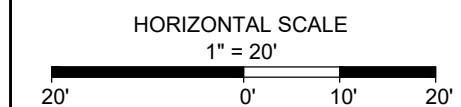
HEALTHY MARSH 3
PERIMETER COORDINATES

NAME	NORTHING	EASTING
HM-9	380,822.970	3,770,985.320
HM-10	380,730.850	3,771,139.960
HM-11	380,653.530	3,771,093.890
HM-12	380,745.650	3,770,939.250

LEGEND

- PROJECT BASELINE/ALIGNMENT
- HEALTHY MARSH PERIMETER
- CONTOURS
0.1' INTERVALS
ELEV. IN FEET NAVD88

REVISED BY: DATE:



DATE: 07/09/2020

JOB# 2201006



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FILE: Grand Bayou BA-0217_Design_HEALTHY MARSHES_070920.dwg

HEALTHY MARSH 3

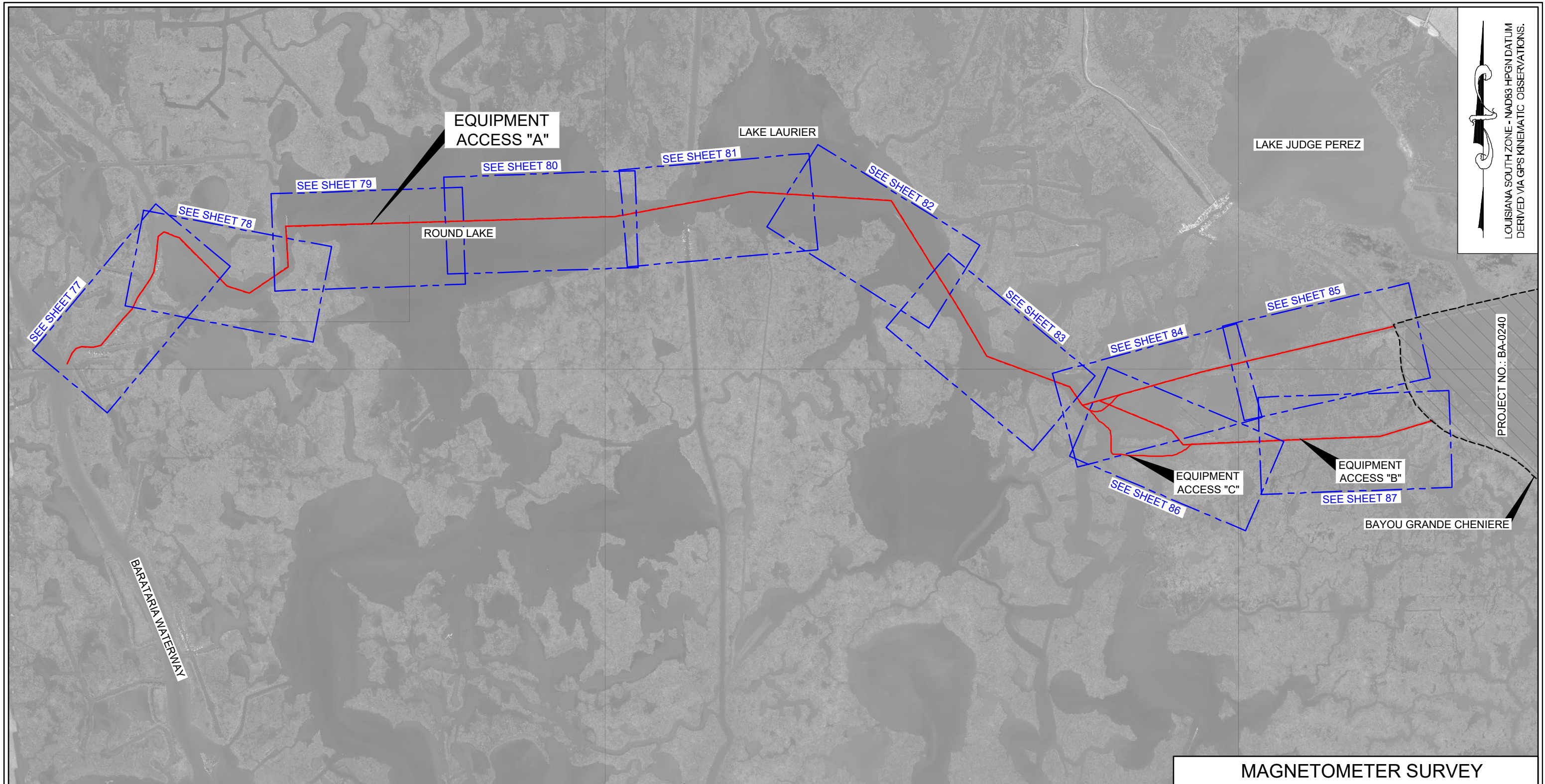
GRAND BAYOU RIDGE AND
MARSH RESTORATION PROJECT
PROJECT NO. BA-0217

DESIGN SURVEY

SURVEY PLAN VIEW
PLAQUEMINES PARISH, LA.

SHEET: 74 OF 110





LOUISIANA SOUTH ZONE - NAD83 HPGN DATUM
DERIVED VIA GPS KINEMATIC OBSERVATIONS.

PROJECT NO.: BA-0240

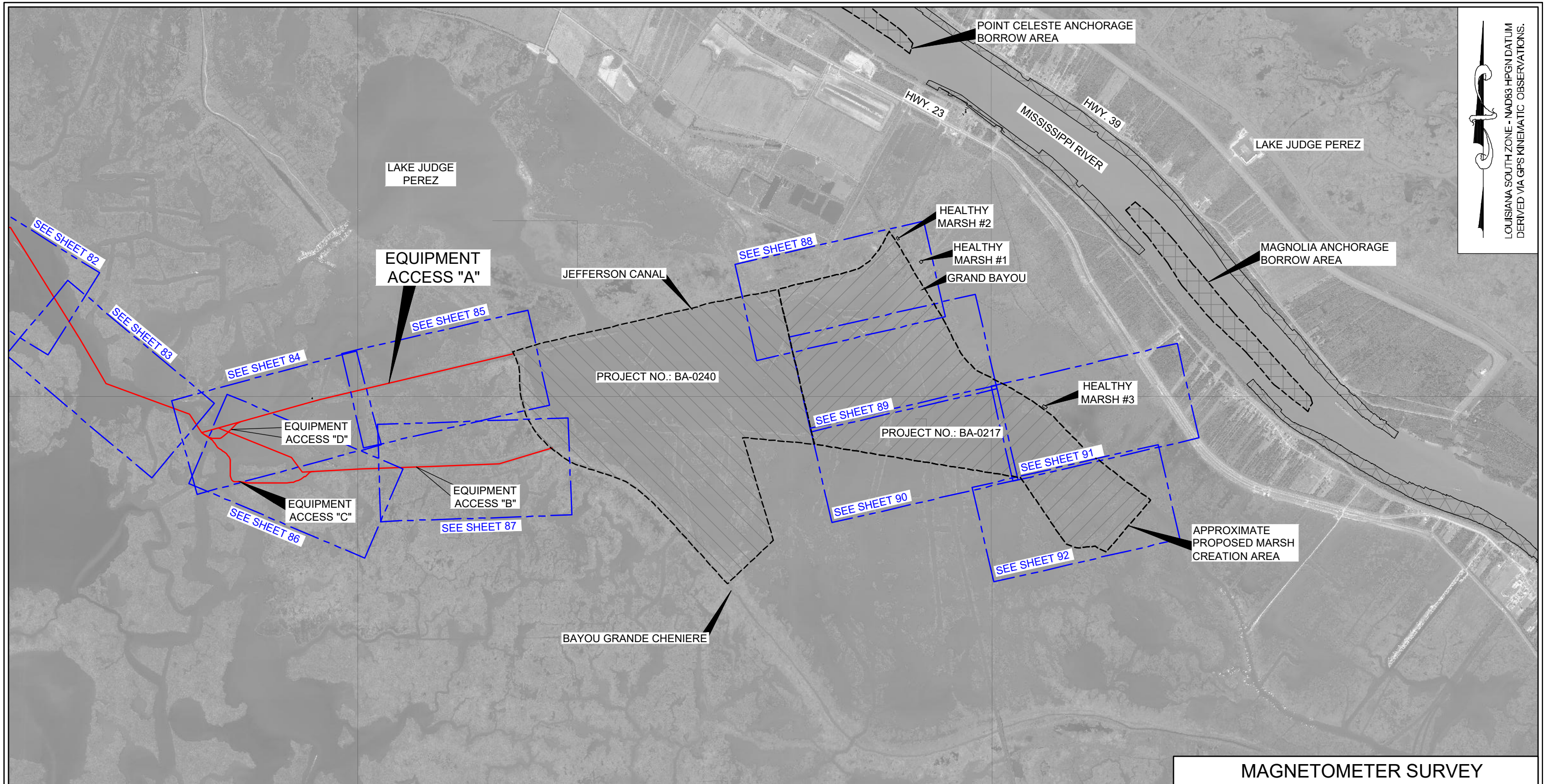


LEGEND	
	PROJECT BASELINE/ALIGNMENT
	MARSH CREATION AREA PROJECT: BA-0217
	MARSH CREATION AREA PROJECT: BA-0240

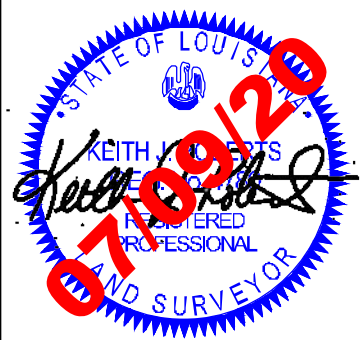
REVISED BY:	DATE:
HORIZONTAL SCALE 1" = 4000'	
DATE: 07/09/2020	JOB# 2201006

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583	
FILE: Grand Bayou BA-0217_Design_MAGNETOMETER_070920.dwg	

MAGNETOMETER SURVEY	
GRAND BAYOU RIDGE AND MARSH RESTORATION PROJECT PROJECT NO. BA-0217	
DESIGN SURVEY	
PARTIAL OVERALL PLAN VIEW PLAQUEMINES PARISH, LA.	
SHEET: 75 OF 110	



LOUISIANA SOUTH ZONE - NAD83 HPGN DATUM
DERIVED VIA GPS KINEMATIC OBSERVATIONS.



LEGEND

- PROJECT BASELINE/ALIGNMENT
- MARSH CREATION AREA PROJECT: BA-0217
- MARSH CREATION AREA PROJECT: BA-0240

REVISED BY: DATE:

HORIZONTAL SCALE
1" = 4000'

4000' 0' 2000' 4000'

DATE: 07/09/2020 JOB# 2201006

HYDROTERRA

CPRA

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FILE: Grand Bayou BA-0217_Design_MAGNETOMETER_070920.dwg

MAGNETOMETER SURVEY

GRAND BAYOU RIDGE AND MARSH RESTORATION PROJECT
PROJECT NO. BA-0217

DESIGN SURVEY

PARTIAL OVERALL PLAN VIEW
PLAQUEMINES PARISH, LA.

SHEET: 76 OF 110

ROUND LAKE

MAGNETOMETER SURVEY

GRAND BAYOU RIDGE AND
MARSH RESTORATION PROJECT
PROJECT NO. BA-0217

DESIGN SURVEY

MAGNETOMETER SURVEY PLAN VIEW
PLAQUEMINES PARISH, LA.



HYDROTERRA



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REVISED BY:	DATE:

HORIZONTAL SCALE
1" = 500'



A horizontal scale bar with a black background. It has white tick marks at 0, 250, and 500 feet. The text 'HORIZONTAL SCALE' and '1" = 500'' is centered above the bar.

DATE: 07/09/2020

JOB# 2201006

FILE: Grand Bayou BA-0217_Design_MAGNETOMETER_070920.dwg

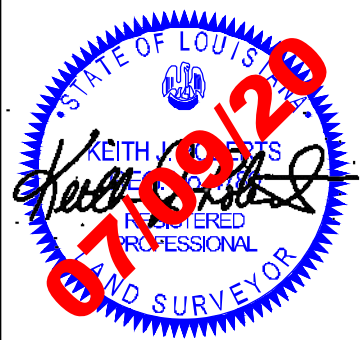
SHEET: 79 OF 110

MAG LEGEND

LEGEND

-  1-50 GAMMAS
-  51-100 GAMMAS
-  101-500 GAMMAS
-  501-1000 GAMMAS
-  > 1001 GAMMAS

 PROJECT ALIGNMENTS
 MAGNETOMETER SURVEY LINES
 MARSH CREATION AREA
 PROJECT: BA-0217
 MARSH CREATION AREA
 PROJECT: BA-0240
 EXISTING PIPELINES



LOUISIANA SOUTH ZONE - NAD83 HPGN DATUM
DERIVED VIA GPS KINEMATIC OBSERVATIONS.

LAKE LAURIER

300+00
A066

310+00

320+00

A068

330+00

A021

340+00

A017

A016

350+00

A075

A122

360+00

370+00

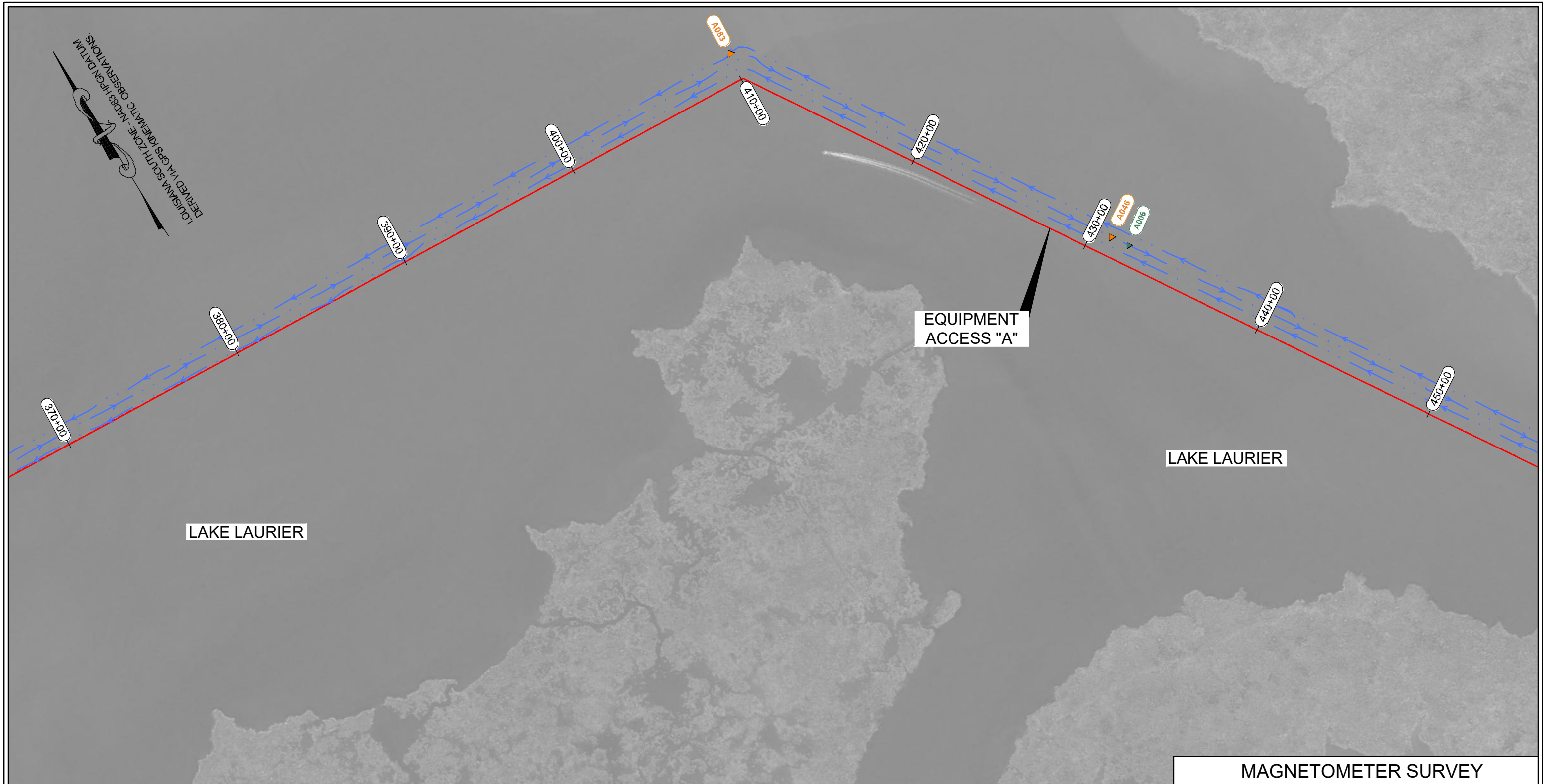
EQUIPMENT ACCESS "A"

MAGNETOMETER SURVEY

EQUIPMENT
ACCESS "A"

SHEET: 81 OF 110





MAG LEGEND	
	1-50 GAMMAS
	51-100 GAMMAS
	101-500 GAMMAS
	501-1000 GAMMAS
	> 1001 GAMMAS

LEGEND	
	PROJECT ALIGNMENTS
	MAGNETOMETER SURVEY LINES
	MARSH CREATION AREA PROJECT: BA-0217
	MARSH CREATION AREA PROJECT: BA-0240
	EXISTING PIPELINES

REVISED BY:	DATE:
HORIZONTAL SCALE 1" = 500'	
DATE: 07/09/2020	JOB# 2201006

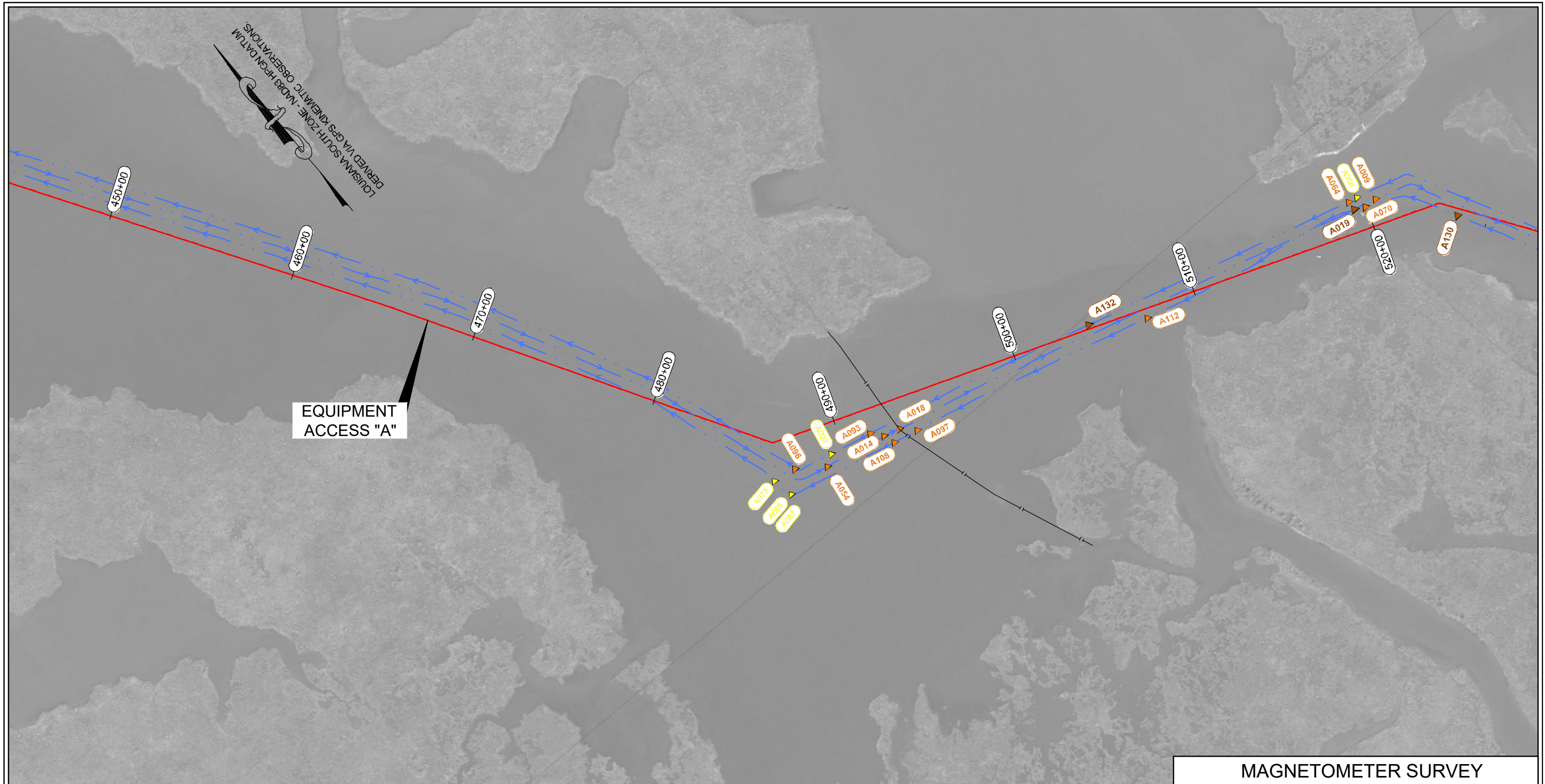
**HYDROTERRA**



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FILE: Grand Bayou BA-0217_Design_MAGNETOMETER_070920.dwg

MAGNETOMETER SURVEY	
GRAND BAYOU RIDGE AND MARSH RESTORATION PROJECT PROJECT NO. BA-0217	
DESIGN SURVEY	
MAGNETOMETER SURVEY PLAN VIEW PLAQUEMINES PARISH, LA.	
	SHEET: 82 OF 110



MAG LEGEND	
	1-50 GAMMAS
	51-100 GAMMAS
	101-500 GAMMAS
	501-1000 GAMMAS
	> 1001 GAMMAS

LEGEND	
	PROJECT ALIGNMENTS
	MAGNETOMETER SURVEY LINES
	MARSH CREATION AREA PROJECT: BA-0217
	MARSH CREATION AREA PROJECT: BA-0240
	EXISTING PIPELINES

REVISED BY:	DATE:
HORIZONTAL SCALE 1" = 500'	
DATE: 07/09/2020	JOB# 2201006

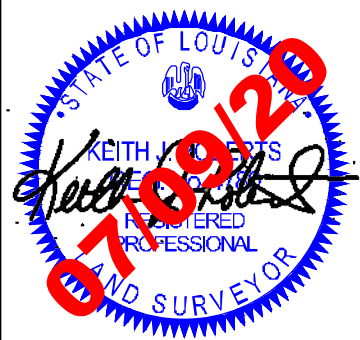
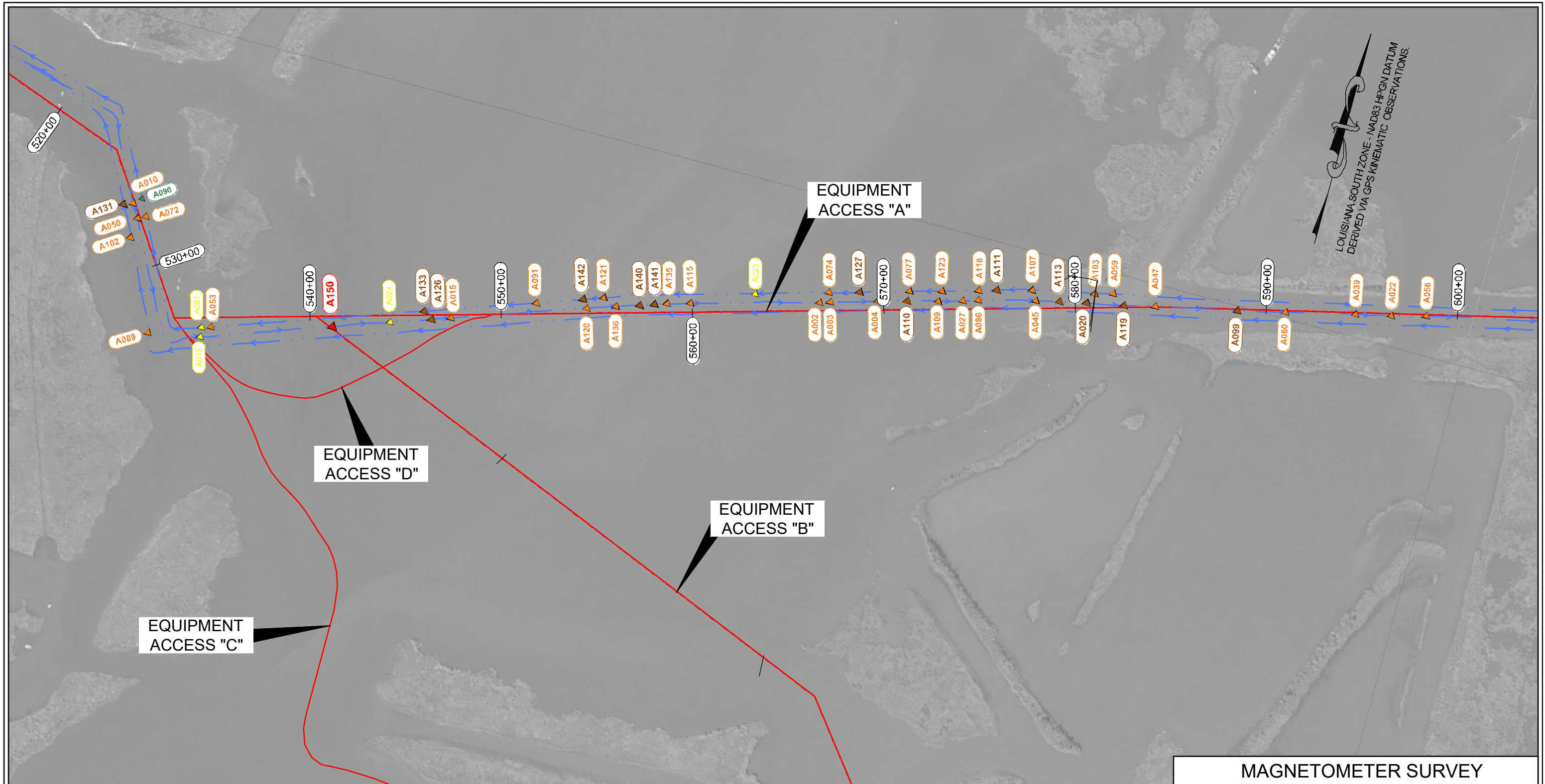
**HYDROTERRA**



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FILE: Grand Bayou BA-0217_Design_MAGNETOMETER_070920.dwg

MAGNETOMETER SURVEY	
GRAND BAYOU RIDGE AND MARSH RESTORATION PROJECT PROJECT NO. BA-0217	
DESIGN SURVEY	
MAGNETOMETER SURVEY PLAN VIEW PLAQUEMINES PARISH, LA.	
	SHEET: 83 OF 110



MAG LEGEND	
	1-50 GAMMAS
	51-100 GAMMAS
	101-500 GAMMAS
	501-1000 GAMMAS
	> 1001 GAMMAS

LEGEND	
	PROJECT ALIGNMENTS
	MAGNETOMETER SURVEY LINES
	MARSH CREATION AREA PROJECT: BA-0217
	MARSH CREATION AREA PROJECT: BA-0240
	EXISTING PIPELINES

REVISED BY:	DATE:
HORIZONTAL SCALE 1" = 500'	
DATE: 07/09/2020	JOB# 2201006

**HYDROTERRA**



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FILE: Grand Bayou BA-0217_Design_MAGNETOMETER_070920.dwg

MAGNETOMETER SURVEY	
GRAND BAYOU RIDGE AND MARSH RESTORATION PROJECT PROJECT NO. BA-0217	
DESIGN SURVEY	
MAGNETOMETER SURVEY PLAN VIEW PLAQUEMINES PARISH, LA.	
	SHEET: 84 OF 110

LOUISIANA SOUTH ZONE - NAD83 HPGN DATUM
DERIVED VIA GPS KINEMATIC OBSERVATIONS

PROJECT NO.: BA-0240

EQUIPMENT
ACCESS "A"

620+00

630+00

640+00

650+00

660+00

670+00

680+00

686+01

A382

A377



MAG LEGEND

- 1-50 GAMMAS
- 51-100 GAMMAS
- 101-500 GAMMAS
- 501-1000 GAMMAS
- > 1001 GAMMAS

LEGEND

- PROJECT ALIGNMENTS
- MAGNETOMETER SURVEY LINES
- MARSH CREATION AREA
PROJECT: BA-0217
- MARSH CREATION AREA
PROJECT: BA-0240
- EXISTING PIPELINES

REVISED BY:

DATE:

HORIZONTAL SCALE
1" = 500'

500' 0' 250' 500'



HYDROTERRA



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DATE: 07/09/2020

JOB# 2201006

FILE: Grand Bayou BA-0217_Design_MAGNETOMETER_070920.dwg

SHEET: 87 OF 110

MAGNETOMETER SURVEY

GRAND BAYOU RIDGE AND
MARSH RESTORATION PROJECT
PROJECT NO. BA-0217

DESIGN SURVEY

MAGNETOMETER SURVEY PLAN VIEW
PLAQUEMINES PARISH, LA.

PROJECT NO.: BA-0240

APPROXIMATE
PROPOSED MARSH
CREATION AREA

GRAND BAYOU

HEALTHY
MARSH #2

PROJECT NO.: BA-0217

- 1-50 GAMMAS
- 51-100 GAMMAS
- 101-500 GAMMAS
- 501-1000 GAMMAS
- > 1001 GAMMAS

 PROJECT ALIGNMENTS
 MAGNETOMETER SURVEY LINES
 MARSH CREATION AREA
 PROJECT: BA-0217
 MARSH CREATION AREA
 PROJECT: BA-0240
 EXISTING PIPELINES

HORIZONTAL SCALE
1" = 500'

A horizontal scale bar with a black line. The line has tick marks at 0', 250', and 500'. The text '0'', '250'', and '500'' is placed below the line at their respective positions. The text 'HORIZONTAL SCALE' and '1" = 500'' is centered above the line.

DATE: 07/09/2020

JOB# 2201006



HYDROTERRA



GRAND BAYOU RIDGE AND
MARSH RESTORATION PROJECT
PROJECT NO. BA-0217

DESIGN SURVEY

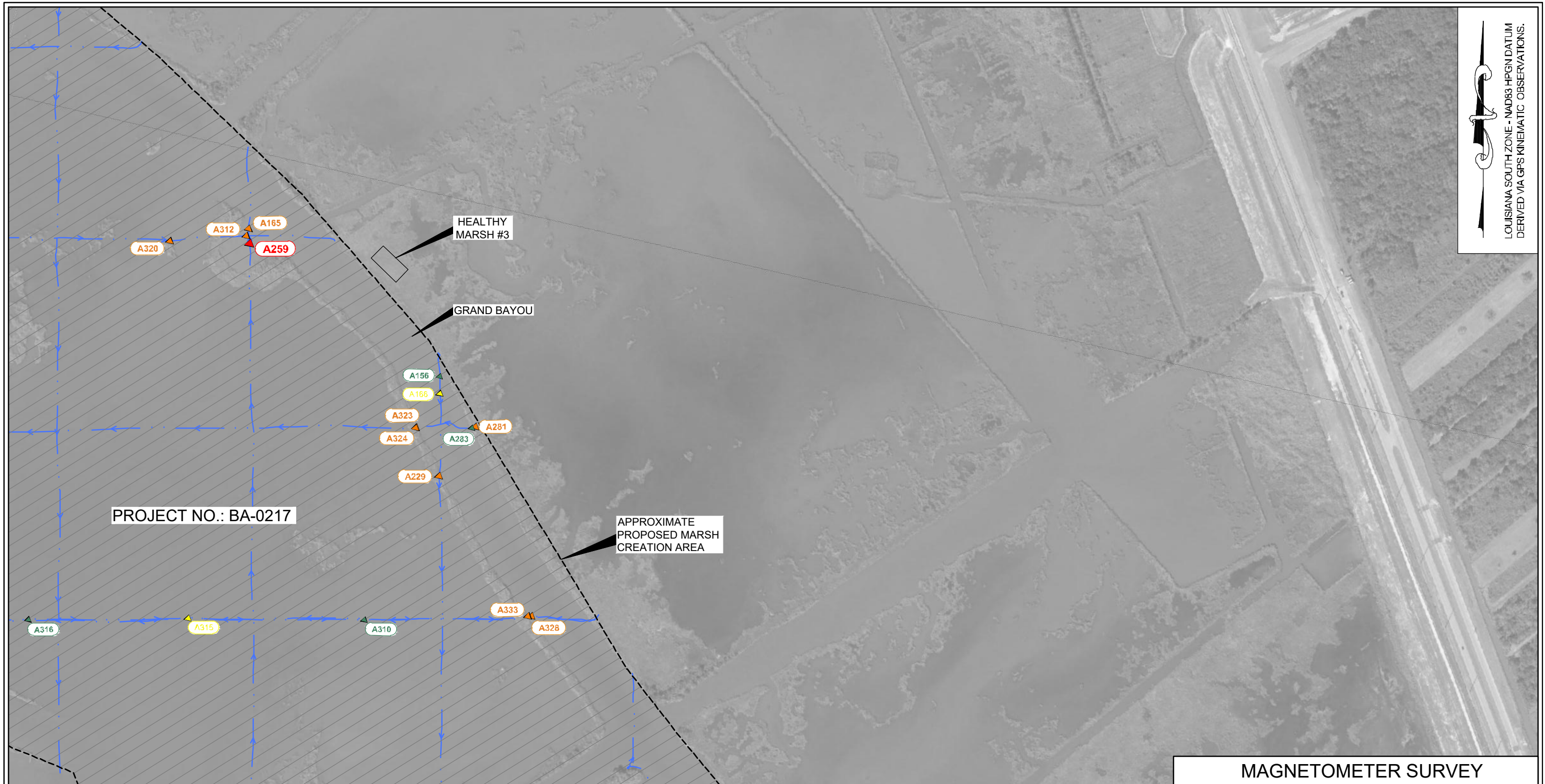
MAGNETOMETER SURVEY PLAN VIEW
PLAQUEMINES PARISH, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Grand Bayou BA-0217_Design_MAGNETOMETER_070920.dwg

SHEET: 88 OF 110





LOUISIANA SOUTH ZONE - NAD83 HPGN DATUM
DERIVED VIA GPS KINEMATIC OBSERVATIONS.



MAG LEGEND	LEGEND
1-50 GAMMAS	PROJECT ALIGNMENTS
51-100 GAMMAS	MAGNETOMETER SURVEY LINES
101-500 GAMMAS	MARSH CREATION AREA PROJECT: BA-0217
501-1000 GAMMAS	MARSH CREATION AREA PROJECT: BA-0240
> 1001 GAMMAS	EXISTING PIPELINES

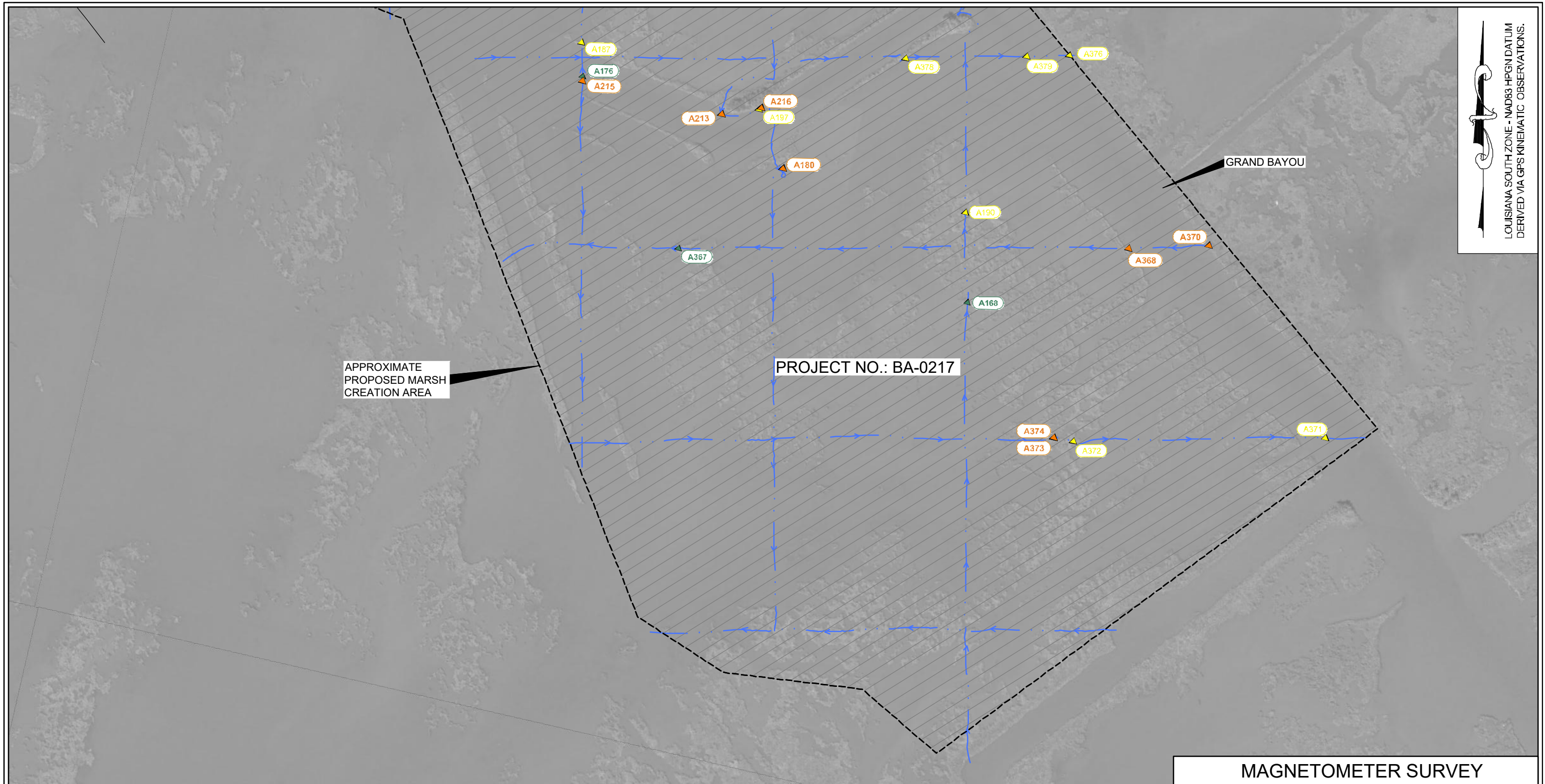
REVISED BY:	DATE:
HORIZONTAL SCALE 1" = 500'	
DATE: 07/09/2020	JOB# 2201006

**HYDROTERRA**



PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

MAGNETOMETER SURVEY	
GRAND BAYOU RIDGE AND MARSH RESTORATION PROJECT PROJECT NO. BA-0217	
DESIGN SURVEY	
MAGNETOMETER SURVEY PLAN VIEW PLAQUEMINES PARISH, LA.	
FILE: Grand Bayou BA-0217_Design_MAGNETOMETER_070920.dwg	SHEET: 91 OF 110



LOUISIANA SOUTH ZONE - NAD83 HPGN DATUM
DERIVED VIA GPS KINEMATIC OBSERVATIONS.



MAG LEGEND	
	1-50 GAMMAS
	51-100 GAMMAS
	101-500 GAMMAS
	501-1000 GAMMAS
	> 1001 GAMMAS

LEGEND	
	PROJECT ALIGNMENTS
	MAGNETOMETER SURVEY LINES
	MARSH CREATION AREA PROJECT: BA-0217
	MARSH CREATION AREA PROJECT: BA-0240
	EXISTING PIPELINES

REVISED BY:	DATE:
HORIZONTAL SCALE 1" = 500'	
DATE: 07/09/2020	JOB# 2201006

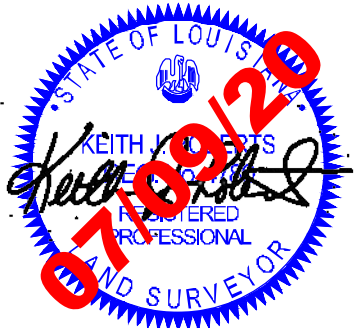
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FILE: Grand Bayou BA-0217_Design_MAGNETOMETER_070920.dwg	SHEET: 92 OF 110

MAGNETOMETER ANOMALIES TABLE							MAGNETOMETER ANOMALIES TABLE						
Name	Northing	Easting	Signature Amplitude	Signature Width	Signature Type	Description	Name	Northing	Easting	Signature Amplitude	Signature Width	Signature Type	Description
A001	378115	3741183	919.55	36.75	Monopolar	Metal Trash	A050	380109	3735464	193.25	87.8	Monopolar	Nothing Found
A002	380607	3739023	125.39	38.31	Monopolar	Nothing Found	A051	378237	3739763	197.64	60.16	Monopolar	Nothing Found
A003	380623	3739075	250.71	25.08	Monopolar	Unidentified Metal Object	A052	378237	3739763	197.64	18.34	Monopolar	Nothing Found
A004	380693	3739314	146.66	60.82	Monopolar	Nothing Found	A053	379660	3735981	303.1	45.36	Monopolar	Nothing Found
A005	378745	3739223	898.41	144.29	Monopolar	Existing Pipeline	A054	381425	3731928	228.38	37.1	Monopolar	Nothing Found
A006	386415	3729037	35.87	28.19	Monopolar	Crap Trap	A055	383963	3696161	165.45	52.21	Dipolar	Nothing Found
A007	379450	3737655	387.29	92.51	Monopolar	Crap Trap	A056	381359	3742103	481.84	92.18	Monopolar	Nothing Found
A008	385482	3699255	164.32	27.6	Dipolar	Nothing Found	A057	383664	3696075	1574.21	185.02	Monopolar	Nothing Found
A009	380654	3735023	213.55	77.36	Dipolar	Nothing Found	A058	380723	3734952	57.96	58.28	Monopolar	Nothing Found
A010	380179	3735422	195.02	72.71	Dipolar	Nothing Found	A059	381048	3740495	338.63	60.74	Monopolar	Unidentified Metal Object
A011	379594	3737081	33.89	57.74	Monopolar	Nothing Found	A060	381189	3741388	450.06	155.35	Monopolar	Nothing Found
A012	379594	3737081	33.89	17.6	Monopolar	Nothing Found	A061	379645	3735934	95.34	46.25	Monopolar	Nothing Found
A013	379596	3735940	79.32	48.4	Dipolar	Nothing Found	A062	384970	3696789	167.39	78.51	Monopolar	Nothing Found
A014	381357	3732258	164.32	59.82	Dipolar	Nothing Found	A063	383505	3695780	163.41	198.77	Monopolar	Existing Pipeline
A015	380030	3737181	100.91	33.61	Monopolar	Unidentified Metal Object	A064	380732	3734905	187.95	91.7	Dipolar	Nothing Found
A016	388604	3721706	62.1	58.68	Monopolar	Nothing Found	A065	378632	3739230	267.91	162.84	Monopolar	Existing Pipeline
A017	388495	3721078	69	26.25	Monopolar	Nothing Found	A066	387779	3716914	156.24	86.61	Dipolar	Nothing Found
A018	381335	3732343	168.28	59.08	Dipolar	Existing Pipeline	A067	378117	3741215	1820.13	74.24	Dipolar	Existing Pipeline
A019	380685	3734904	543.09	103.69	Dipolar	Nothing Found	A068	388198	3719238	50.93	194.55	Monopolar	Nothing Found
A020	380965	3740372	769.07	126.86	Monopolar	Nothing Found	A069	384685	3700258	829.29	96.9	Monopolar	Crap Trap
A021	388361	3720342	78.71	23.41	Monopolar	Nothing Found	A070	380657	3734956	455.06	188.69	Dipolar	Nothing Found
A022	381313	3741928	189.27	140.34	Monopolar	Unidentified Metal Object	A071	385442	3696961	88.86	70.03	Monopolar	Nothing Found
A023	380563	3738687	63.04	33.17	Monopolar	Nothing Found	A072	380129	3735504	115.42	75.94	Monopolar	Nothing Found
A024	379926	3736880	64.43	40.08	Monopolar	Nothing Found	A073	381545	3731668	67.65	156.3	Monopolar	Nothing Found
A025	383890	3696181	62.65	193.44	Dipolar	Nothing Found	A074	380670	3739057	132.53	47.37	Monopolar	Nothing Found
A026	384888	3696684	294.22	68.52	Monopolar	Existing Broken Pipeline	A075	388687	3721918	72.53	60.14	Dipolar	Nothing Found
A027	380809	3739744	472.44	98.15	Monopolar	Nothing Found	A076	378696	3739213	312.82	130.15	Monopolar	Existing Pipeline
A028	385434	3697009	288.63	77.53	Dipolar	Nothing Found	A077	380785	3739462	150.92	50.35	Dipolar	Nothing Found
A029	385415	3697005	195.21	42.94	Dipolar	Nothing Found	A078	383614	3695882	354.45	37.04	Dipolar	Nothing Found
A030	387449	3710882	129.98	62.06	Monopolar	Nothing Found	A079	387473	3710113	67.82	90	Monopolar	Nothing Found
A031	384361	3696301	40.08	30.93	Monopolar	Nothing Found	A080	387491	3710809	55.55	42.7	Monopolar	Nothing Found
A032	384361	3696301	40.08	28.85	Monopolar	Nothing Found	A081	381553	3742740	119.09	137.57	Monopolar	Nothing Found
A033	383600	3695937	51.43	33.17	Monopolar	Nothing Found	A082	381553	3742740	119.09	133.5	Monopolar	Nothing Found
A034	386575	3702531	93.25	84.49	Monopolar	Nothing Found	A083	388369	3727803	137.98	119.02	Monopolar	Crap Trap
A035	383539	3695878	51.73	27.72	Dipolar	Nothing Found	A084	384636	3700251	470.79	70.53	Dipolar	Nothing Found
A036	384233	3696229	58.87	77.99	Monopolar	Nothing Found	A085	384436	3696348	278.54	107.75	Monopolar	Nothing Found
A037	379678	3736896	133.8	261.29	Monopolar	Nothing Found	A086	380833	3739820	458.02	77.21	Dipolar	Unidentified Metal Object
A038	379779	3736924	226.31	261.61	Dipolar	Nothing Found	A087	381435	3731691	92.37	63.13	Monopolar	Nothing Found
A039	381272	3741745	229.18	158.69	Monopolar	Nothing Found	A088	381435	3731691	92.37	19.24	Monopolar	Nothing Found
A040	383205	3695576	44.3	61.83	Dipolar	Nothing Found	A089	379546	3735671	180.91	81.65	Dipolar	Crap Trap
A041	384410	3696423	253.08	227.53	Dipolar	Nothing Found	A090	380213	3735460	46.75	75.22	Monopolar	Nothing Found
A042	387583	3715225	227.74	71.04	Dipolar	Crap Trap	A091	380220	3737593	152.29	157.11	Monopolar	Nothing Found
A043	383417	3695829	472.23	142.2	Monopolar	Existing Pipeline	A092	381462	3731987	64.88	95.25	Monopolar	Nothing Found
A044	383417	3695829	472.23	43.34	Monopolar	Existing Pipeline	A093	381414	3732211	218.25	75.9	Dipolar	Nothing Found
A045	380908	3740112	206.5	95.04	Monopolar	Nothing Found	A094	384680	3699979	83.29	37	Monopolar	Nothing Found
A046	386499	3728983	155.26	61.16	Monopolar	Crap Trap	A095	384680	3699979	82.63	34.78	Monopolar	Nothing Found
A047	381041	3740723	332.48	100.89	Dipolar	Nothing Found	A096	381525	3731790	131.25	86.75	Dipolar	Nothing Found
A048	382827	3695282	53.57	77.06	Monopolar	Nothing Found	A097	381268	3732411	116.39	98.35	Monopolar	Nothing Found
A049	385009	3696811	102.6	83.37	Monopolar	Nothing Found	A098	384596	3700198	96.24	35.56	Monopolar	Nothing Found



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SHEET: 93 OF 110

MAGNETOMETER SURVEY

GRAND BAYOU RIDGE AND
MARSH RESTORATION PROJECT
PROJECT NO. BA-0217

DESIGN SURVEY

MAGNETOMETER SURVEY ANOMALIES TABLE
PLAQUEMINES PARISH, LA.

MAGNETOMETER ANOMALIES TABLE							MAGNETOMETER ANOMALIES TABLE						
Name	Northing	Easting	Signature Amplitude	Signature Width	Signature Type	Description	Name	Northing	Easting	Signature Amplitude	Signature Width	Signature Type	Description
A099	381130	3741144	717.68	174.11	Dipolar	Nothing Found	A148	379731	3736901	3033.96	154.42	Monopolar	Unidentified Metal Object
A100	379448	3737526	88.74	45.36	Dipolar	Crap Trap	A149	384866	3696726	3274.61	137.14	Monopolar	Existing Broken Pipeline
A101	384578	3700248	328.17	49.23	Dipolar	Nothing Found	A150	379825	3736596	3616.33	70.98	Dipolar	Unidentified Metal Object
A102	380003	3735455	127.35	119.17	Monopolar	Nothing Found	A151	380992	3766110	154.15	59.82	Monopolar	Existing Pipeline
A103	381022	3740399	266.25	42.97	Monopolar	Existing Pipeline	A152	383981	3763616	236.57	33.25	Monopolar	Existing Facility
A104	383466	3695808	283.59	93.82	Monopolar	Existing Pipeline	A153	383253	3764546	62.73	8.04	Dipolar	Nothing Found
A105	379357	3737617	911.33	129.47	Dipolar	Existing Pipeline	A154	386080	3761826	45.52	24.16	Monopolar	Nothing Found
A106	379357	3737617	911.33	39.46	Dipolar	Existing Pipeline	A155	386056	3761832	124.32	69.54	Monopolar	Existing Pipeline
A107	380956	3740079	229.05	100.95	Monopolar	Unidentified Metal Object	A156	380224	3771428	28.46	26.77	Dipolar	Nothing Found
A108	381297	3732278	274.27	107.68	Dipolar	Nothing Found	A157	378994	3766586	43.84	39.39	Monopolar	Nothing Found
A109	380774	3739620	400.36	52.14	Monopolar	Nothing Found	A158	386629	3763781	23.88	20.21	Monopolar	Transition from Marsh to Water
A110	380733	3739463	719.84	66.96	Dipolar	Nothing Found	A159	386764	3763755	204.86	88.65	Monopolar	Existing Pipeline (Water Line)
A111	380908	3739901	822.55	110.7	Dipolar	Nothing Found	A160	378683	3765624	33.39	51.85	Monopolar	Nothing Found
A112	380944	3733708	250.48	83.02	Dipolar	Nothing Found	A161	380968	3765091	43.11	21.08	Monopolar	Nothing Found
A113	380935	3740233	785.52	178.06	Dipolar	Nothing Found	A162	384070	3764363	654.2	60.68	Monopolar	Nothing Found
A114	387525	3711670	220.26	41.57	Monopolar	Nothing Found	A163	382599	3764707	43.46	27.41	Dipolar	Nothing Found
A115	380429	3738371	198.91	56.32	Dipolar	Nothing Found	A164	378076	3768854	97.94	49.35	Monopolar	Nothing Found
A116	387499	3710951	234.09	58.43	Monopolar	Nothing Found	A165	380752	3770281	257.71	24.52	Monopolar	Nothing Found
A117	383914	3696141	641.51	46.47	Dipolar	Nothing Found	A166	380136	3771449	61.1	60.59	Dipolar	Nothing Found
A118	380882	3739810	321.52	177.8	Monopolar	Nothing Found	A167	378379	3766705	349.83	31.2	Dipolar	Nothing Found
A119	381004	3740564	796.93	241.64	Dipolar	Nothing Found	A168	376996	3773233	48.76	12.31	Monopolar	Transition from Marsh to Water
A120	380263	3737855	447.35	155.16	Monopolar	Nothing Found	A169	385027	3764144	152.35	98.95	Monopolar	Unidentified Metal Object
A121	380338	3737926	249.02	130.95	Monopolar	Nothing Found	A170	387909	3764494	66.89	20.07	Monopolar	Nothing Found
A122	388537	3722752	353.24	86.27	Monopolar	Nothing Found	A171	383772	3763322	202.96	15.56	Dipolar	Unidentified Metal Object
A123	380830	3739626	397.26	117.85	Monopolar	Nothing Found	A172	379315	3764454	58.37	17.69	Monopolar	Nothing Found
A124	387549	3715789	628.14	153.16	Dipolar	Nothing Found	A173	385134	3764116	65.07	146.41	Dipolar	Unidentified Metal Object
A125	378028	3741260	707.65	153.05	Monopolar	Existing Pipeline	A174	384884	3766229	125.57	60.12	Dipolar	Nothing Found
A126	379995	3737086	577.04	196.85	Monopolar	Crap Trap	A175	381350	3768080	33.57	126.41	Dipolar	Nothing Found
A127	380713	3739211	937.26	150.67	Dipolar	Nothing Found	A176	377694	3771007	36.32	21.58	Monopolar	Crap Trap
A128	379404	3737639	352.04	63.73	Monopolar	Existing Pipeline	A177	383367	3764524	333.33	105.87	Monopolar	Nothing Found
A129	382649	3695081	876.73	28.83	Dipolar	Nothing Found	A178	384235	3764333	1340.15	83.61	Monopolar	Nothing Found
A130	380313	3735296	524.83	219.2	Dipolar	Unidentified Metal Object	A179	379877	3766378	52.92	126.84	Monopolar	Nothing Found
A131	380162	3735374	704.77	124.32	Dipolar	Nothing Found	A180	377460	3772136	111.6	18.54	Monopolar	Nothing Found
A132	381115	3733451	622.07	161.63	Dipolar	Nothing Found	A181	380268	3766284	138.96	150.91	Monopolar	Nothing Found
A133	380028	3737038	556.43	273.79	Monopolar	Nothing Found	A182	378778	3766642	56.83	115.78	Monopolar	Nothing Found
A134	378023	3741141	916.34	146.93	Monopolar	Solid Metal Object at Mud Line	A183	378828	3764563	68.16	33.22	Monopolar	Nothing Found
A135	380395	3738253	419.53	112.22	Monopolar	Nothing Found	A184	386279	3762820	323.23	84.84	Monopolar	Existing Pipeline
A136	380311	3737999	411.11	159.92	Monopolar	Nothing Found	A185	380794	3766169	248.21	117.42	Monopolar	Nothing Found
A137	384433	3696382	4583.4	130.41	Dipolar	Nothing Found	A186	385913	3764944	55.61	49.86	Monopolar	Crap Trap
A138	381940	3693510	1675.66	106.19	Dipolar	Nothing Found	A187	377865	3770962	71.48	7.51	Dipolar	Crap Trap
A139	384835	3696766	842.84	143.85	Monopolar	Existing Broken Pipeline	A188	384796	3763171	57.59	12.51	Monopolar	Nothing Found
A140	380349	3738118	560.21	90.98	Monopolar	Nothing Found	A189	384453	3762204	87.89	9.06	Dipolar	Nothing Found
A141	380373	3738191	641.59	74.78	Monopolar	Nothing Found	A190	377451	3773117	89.57	11.35	Dipolar	Transition from Marsh to Water
A142	380302	3737825	954.39	176.29	Monopolar	Nothing Found	A191	387940	3764487	54.14	26.06	Monopolar	Nothing Found
A143	378232	3739846	972.94	119.26	Monopolar	Unidentified Metal Object	A192	380001	3766348	79	137.68	Monopolar	Nothing Found
A144	383691	3696022	1479.89	99.01	Monopolar	Nothing Found	A193	385257	3761001	478.26	264.34	Monopolar	Existing Pipeline
A145	382129	3694448	2633.88	96.36	Dipolar	Nothing Found	A194	379282	3764476	52.71	9.07	Dipolar	Transition from Marsh to Water
A146	387662	3716131	2054.1	83.35	Dipolar	Nothing Found	A195	380748	3766181	69.4	117.17	Monopolar	Nothing Found
A147	379817	3736593	2042.11	106.7	Monopolar	Unidentified Metal Object	A196	381206	3766065	81.75	86.44	Monopolar	Nothing Found



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GRAND BAYOU RIDGE AND MARSH RESTORATION PROJECT
PROJECT NO. BA-0217

DESIGN SURVEY

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PLAQUEMINES PARISH, LA.

SHEET: 94 OF 110

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Name	Northing	Easting	Signature Amplitude	Signature Width	Signature Type	Description	Name	Northing	Easting	Signature Amplitude	Signature Width	Signature Type	Description
A197	377734	3771944	71.35	11.56	Dipolar	Nothing Found	A246	384323	3766141	1671.49	90.55	Monopolar	Existing Targa Pipeline
A198	378349	3766709	44.73	16.03	Monopolar	Nothing Found	A247	383078	3765631	1301.39	86.69	Monopolar	Nothing Found
A199	384454	3763253	77.22	14.92	Monopolar	Nothing Found	A248	383098	3765626	1301.39	150.18	Dipolar	Nothing Found
A200	381326	3766037	109.21	118.28	Monopolar	Nothing Found	A249	380450	3765211	919.2	91.41	Dipolar	Existing Pipeline
A201	378358	3766706	268.11	14.4	Dipolar	Nothing Found	A250	378166	3767808	602.71	40.47	Monopolar	Nothing Found
A202	379069	3764513	45.75	34.15	Monopolar	Transition from Marsh to Water	A251	384016	3763549	2451.55	58.19	Monopolar	Existing Facility
A203	380367	3765234	770.61	71.9	Dipolar	Existing Pipeline	A252	382903	3765684	954	152.64	Dipolar	Existing Targa Pipeline
A204	379267	3762417	109.12	40.54	Dipolar	Nothing Found	A253	382946	3765673	1254.97	119.31	Dipolar	Existing Targa Pipeline
A205	379267	3762417	109.12	12.36	Dipolar	Nothing Found	A254	384195	3763315	1192.41	53.24	Dipolar	Nothing Found
A206	379267	3762417	109.12	37.63	Dipolar	Nothing Found	A255	384611	3766358	2163.91	102.04	Dipolar	Existing Targa Pipeline
A207	385557	3762993	449	115.33	Monopolar	Nothing Found	A256	383337	3764529	1211.59	71.14	Monopolar	Existing Gulf South Pipeline
A208	382983	3763592	380.69	89.93	Dipolar	Nothing Found	A257	384024	3763521	779.47	20.1	Dipolar	Existing Facility
A209	379257	3764469	76.33	9.47	Dipolar	Transition from Marsh to Water	A258	383786	3763544	1308.2	266.87	Monopolar	Existing Facility
A210	384709	3763189	205.65	102.99	Dipolar	Nothing Found	A259	380677	3770303	1363.96	132.68	Monopolar	Near Existing Well Head
A211	378715	3767678	283.26	289.63	Dipolar	Nothing Found	A260	384277	3766135	1164.95	84.72	Monopolar	Existing Targa Pipeline
A212	379602	3766446	63.53	20.07	Dipolar	Nothing Found	A261	383046	3764604	1536.7	211.87	Monopolar	Nothing Found
A213	377665	3771760	195.25	19.92	Dipolar	Nothing Found	A262	383897	3763633	1615.66	56.4	Monopolar	Existing Facility
A214	387853	3764506	280.83	147.94	Dipolar	Existing Pipeline	A263	384777	3762135	1704.67	78.13	Monopolar	Nothing Found
A215	377671	3771012	112.61	53.81	Monopolar	Crap Trap	A264	384488	3766299	3141.64	112.84	Monopolar	Existing Targa Pipeline
A216	377743	3771954	183.88	18.69	Dipolar	Nothing Found	A265	384116	3765396	2294.13	77.03	Dipolar	Nothing Found
A217	380926	3766126	608.92	104.15	Dipolar	Nothing Found	A266	385657	3762968	3774.68	157.64	Dipolar	Existing Pipeline
A218	380513	3762125	177.95	56.03	Dipolar	Nothing Found	A267	384035	3763481	4435.71	49.24	Dipolar	Existing Facility
A219	381461	3764972	1039.79	71.74	Monopolar	Nothing Found	A268	384288	3765345	5115.73	111.41	Dipolar	Nothing Found
A220	381617	3764939	363.99	52.25	Dipolar	Nothing Found	A269	379011	3767443	2962.04	70.46	Monopolar	Existing Pipeline
A221	383046	3763579	486.79	90.02	Dipolar	Existing Pipeline	A270	380615	3765555	134.95	26.54	Monopolar	Nothing Found
A222	382994	3765659	719.23	70.97	Monopolar	Nothing Found	A271	380607	3765523	234.18	39.8	Dipolar	Existing Pipeline
A223	384828	3762121	483.79	75.56	Dipolar	Nothing Found	A272	380663	3765736	47.3	57.94	Monopolar	Nothing Found
A224	382154	3765833	301.66	258.75	Monopolar	Nothing Found	A273	382411	3764404	225.25	54.47	Dipolar	Nothing Found
A225	382365	3765778	299.24	305.41	Dipolar	Nothing Found	A274	382561	3765058	227.14	65.42	Monopolar	Existing Pipeline
A226	384071	3763367	1827.94	55.32	Dipolar	Existing Facility	A275	382327	3764026	512.82	118.1	Monopolar	Existing Pipeline
A227	387034	3764697	785.7	43.93	Dipolar	Unidentified Metal Object	A276	382421	3764453	201.62	58.58	Monopolar	Nothing Found
A228	381060	3766093	208.93	66.23	Monopolar	Nothing Found	A277	381832	3761936	39.64	30.81	Dipolar	Nothing Found
A229	379716	3771541	333.02	19.74	Dipolar	Transition from Marsh to Water	A278	383997	3766816	1993.03	35.76	Monopolar	Existing Exposed Cut Pipeline
A230	384943	3764165	317.05	73.1	Dipolar	Unidentified Metal Object	A279	380343	3764402	87.05	17.63	Monopolar	Nothing Found
A231	381563	3764951	524.66	66.05	Monopolar	Nothing Found	A280	384546	3764741	204.36	76	Dipolar	Nothing Found
A232	381493	3764966	1127.61	84.64	Monopolar	Existing Pipeline	A281	380009	3771669	221.55	28.48	Monopolar	Transition from Marsh to Water
A233	384929	3762099	1759.62	106.72	Monopolar	Existing Pipeline	A282	384281	3763624	961.94	72.24	Monopolar	Nothing Found
A234	381342	3763974	981.79	216.52	Dipolar	Nothing Found	A283	379999	3771652	49.28	6.82	Monopolar	Transition from Marsh to Water
A235	383193	3761480	601.77	344.18	Dipolar	Existing Shell Pipeline	A284	382360	3764185	93.47	37.66	Dipolar	Nothing Found
A236	385757	3762942	336.84	108.98	Monopolar	Nothing Found	A285	383116	3767427	1574.33	35.11	Monopolar	Unidentified Metal Object
A237	385407	3764050	348.31	47.82	Dipolar	Unidentified Metal Object	A286	384895	3766262	146.8	67.75	Dipolar	Nothing Found
A238	385595	3759900	269.96	95.32	Monopolar	Existing Pipeline (Water Line)	A287	386467	3764354	916.88	57.38	Monopolar	Unidentified Metal Object
A239	384404	3766213	1554.04	119.63	Monopolar	Existing Targa Pipeline	A288	384206	3763314	961.41	36.77	Dipolar	Nothing Found
A240	380301	3765250	319.67	95.22	Monopolar	Nothing Found	A289	385441	3760009	73.06	83	Dipolar	Crap Trap
A241	382258	3762750	805.74	181.58	Dipolar	Existing Pipeline	A290	385227	3759030	85.02	33.18	Dipolar	Nothing Found
A242	385728	3763978	473.73	155	Monopolar	Unidentified Metal Object	A291	385292	3759340	354.71	19.15	Monopolar	3/8" Iron Rod
A243	384509	3764266	428.94	61.8	Monopolar	Nothing Found	A292	385532	3760336	49.17	16.26	Monopolar	Transition from Marsh to Water
A244	379496	3766475	441.04	119.52	Monopolar	Existing Shell Pipeline	A293	386101	3762794	49.16	109.13	Monopolar	Transition from Marsh to Water
A245	381035	3766099	676.95	23.53	Monopolar	Nothing Found	A294	385539	3760352	125.02	31.19	Monopolar	Transition from Marsh to Water



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MAGNETOMETER SURVEY

GRAND BAYOU RIDGE AND MARSH RESTORATION PROJECT
PROJECT NO. BA-0217

DESIGN SURVEY

MAGNETOMETER SURVEY ANOMALIES TABLE
PLAQUEMINES PARISH, LA.

SHEET: 95 OF 110

MAGNETOMETER ANOMALIES TABLE							MAGNETOMETER ANOMALIES TABLE						
Name	Northing	Easting	Signature Amplitude	Signature Width	Signature Type	Description	Name	Northing	Easting	Signature Amplitude	Signature Width	Signature Type	Description
A295	384297	3763714	40.52	38.47	Monopolar	Nothing Found	A344	382850	3761951	434.62	96.31	Dipolar	Existing Pipeline
A296	385971	3762236	57.86	28.14	Dipolar	Transition from Marsh to Water	A345	381730	3765883	397.04	53.75	Dipolar	Existing Targa Pipeline
A297	384171	3763075	803.66	28.36	Dipolar	Nothing Found	A346	383635	3760887	704	143.89	Dipolar	Existing Pipeline
A298	384606	3765014	80.05	32.96	Monopolar	Unidentified Metal Object	A347	379901	3766838	309.87	89.65	Dipolar	Existing Pipeline
A299	378903	3767042	201.64	46.59	Dipolar	Nothing Found	A348	384603	3760638	346.19	58.34	Monopolar	Existing Pipeline
A300	378895	3767005	198.79	68.63	Monopolar	Nothing Found	A349	378124	3767967	414.81	18.97	Monopolar	Nothing Found
A301	383455	3764441	3863.32	101.19	Monopolar	Existing Gulf South Pipeline	A350	382713	3765677	403.86	47.91	Monopolar	Existing Targa Pipeline
A302	381426	3764573	153.83	37.58	Dipolar	Existing Pipeline	A351	383764	3765818	640.4	102.59	Dipolar	Nothing Found
A303	379623	3765687	273.87	127.57	Monopolar	Existing Pipeline	A352	379735	3766155	546.19	80.52	Monopolar	Existing Pipeline
A304	381514	3764951	89.23	17.42	Monopolar	Existing Pipeline	A353	381723	3765855	482.98	69.01	Monopolar	Existing Targa Pipeline
A305	380507	3765124	1170.89	173.52	Dipolar	Existing Pipeline	A354	384414	3759814	565.35	44.66	Monopolar	Existing Pipeline
A306	385014	3762391	53.2	38.62	Monopolar	Nothing Found	A355	384217	3763365	1376.23	50.94	Dipolar	Nothing Found
A307	383304	3763806	322.13	50.18	Monopolar	Nothing Found	A356	384327	3763864	986.16	156.03	Monopolar	Existing Pipeline
A308	386311	3763677	133.92	59.67	Monopolar	Transition from Marsh to Water	A357	385365	3763887	869.14	57.36	Monopolar	Nothing Found
A309	385809	3761494	174.04	71.9	Monopolar	Unidentified Metal Object	A358	386091	3762679	1024.78	46.54	Monopolar	Existing Gulf South Pipeline
A310	378895	3771330	34.23	59.08	Monopolar	Nothing Found	A359	383229	3763460	947.7	52.53	Monopolar	Existing Pipeline
A311	385849	3761675	189.36	45.25	Dipolar	Transition from Marsh to Water	A360	385215	3763254	1089.88	46.73	Monopolar	Existing Pipeline
A312	380712	3770277	320.85	138.93	Monopolar	Near Existing Well Head	A361	384942	3762055	1538.02	62.58	Dipolar	Existing Pipeline
A313	384898	3766165	61.07	12.08	Dipolar	Transition from Marsh to Water	A362	379778	3766333	1208.1	73.12	Monopolar	Existing Targa Pipeline
A314	380429	3764726	124.57	28.05	Monopolar	Nothing Found	A363	384186	3763086	1875.9	16.88	Monopolar	Nothing Found
A315	378697	3770430	57.5	46.71	Monopolar	Nothing Found	A364	378792	3766563	1844.47	101.15	Monopolar	Existing Targa Pipeline
A316	378502	3769618	44.97	88.1	Monopolar	Nothing Found	A365	383784	3761500	2072.53	103.86	Monopolar	Existing Well Head
A317	384182	3763182	888.56	44.53	Dipolar	Nothing Found	A366	381670	3765641	2068.03	126.48	Monopolar	Existing Pipeline
A318	384413	3764217	318.11	91.98	Dipolar	Nothing Found	A367	376931	3771698	43.47	10.36	Monopolar	Transition from Marsh to Water
A319	382219	3767983	145.21	110.47	Dipolar	Nothing Found	A368	377460	3773991	114.54	16.89	Dipolar	Nothing Found
A320	380596	3769894	131.66	76.4	Dipolar	Nothing Found	A369	378153	3768213	144.62	50.43	Dipolar	Nothing Found
A321	385755	3761273	239.87	107.44	Monopolar	Existing Pipeline	A370	377569	3774397	158.57	19.27	Dipolar	Nothing Found
A322	385778	3765638	96.5	23.8	Dipolar	Nothing Found	A371	376726	3775216	98.12	74.88	Monopolar	Crap Trap
A323	379936	3771368	336.56	12.25	Monopolar	Transition from Marsh to Water	A372	376412	3773935	62.76	13.2	Dipolar	Nothing Found
A324	379934	3771365	343.05	21.25	Dipolar	Transition from Marsh to Water	A373	376408	3773832	107.57	29.66	Dipolar	Nothing Found
A325	380760	3766126	1760.91	142.06	Monopolar	Existing Targa Pipeline	A374	376408	3773832	107.57	9.04	Dipolar	Nothing Found
A326	384905	3761916	2104.76	54.24	Monopolar	Nothing Found	A375	378147	3741981	94.2	72.97	Dipolar	Unidentified Metal Object
A327	384847	3761666	88.53	39.66	Monopolar	Nothing Found	A376	378373	3773462	66.98	11.23	Monopolar	Transition from Marsh to Water
A328	379111	3772177	184.54	34.32	Dipolar	Transition from Marsh to Water	A377	379082	3750469	76.4	12.82	Monopolar	Unidentified Metal Object
A329	380653	3761294	136.45	34.24	Monopolar	Nothing Found	A378	378165	3772632	90.77	8.99	Monopolar	Crap Trap
A330	385420	3764121	119.02	33.4	Monopolar	Nothing Found	A379	378318	3773246	71.2	68.94	Monopolar	Nothing Found
A331	381519	3764977	503.07	63.66	Dipolar	Nothing Found	A380	384957	3766351	177.45	17.95	Dipolar	Transition from Marsh to Water
A332	379007	3763010	151.07	42.22	Monopolar	Nothing Found	A381	384960	3766356	110.99	12.18	Dipolar	Transition from Marsh to Water
A333	379107	3772159	124.49	11.74	Monopolar	Transition from Marsh to Water	A382	379088	3750484	239.73	18.87	Dipolar	Unidentified Metal Object
A334	384913	3766138	432.79	66.33	Monopolar	Transition from Marsh to Water	A383	387733	3764525	157.86	21.6	Monopolar	Nothing Found
A335	383893	3766632	422.51	101.22	Monopolar	Nothing Found							
A336	378959	3767234	459.48	47.85	Monopolar	Existing Shell Pipeline							
A337	384239	3763456	397.09	41.63	Monopolar	Nothing Found							
A338	380788	3766248	271.29	30.2	Monopolar	Existing Pipeline							
A339	385398	3764046	230.42	19.75	Monopolar	Unidentified Metal Object							
A340	381295	3764051	611.53	76.25	Dipolar	Existing Pipeline							
A341	382076	3762996	935.39	276.96	Dipolar	Existing Pipeline							
A342	382707	3765655	354.07	45.63	Monopolar	Existing Targa Pipeline							
A343	385352	3763939	608.8	32.67	Dipolar	Nothing Found							



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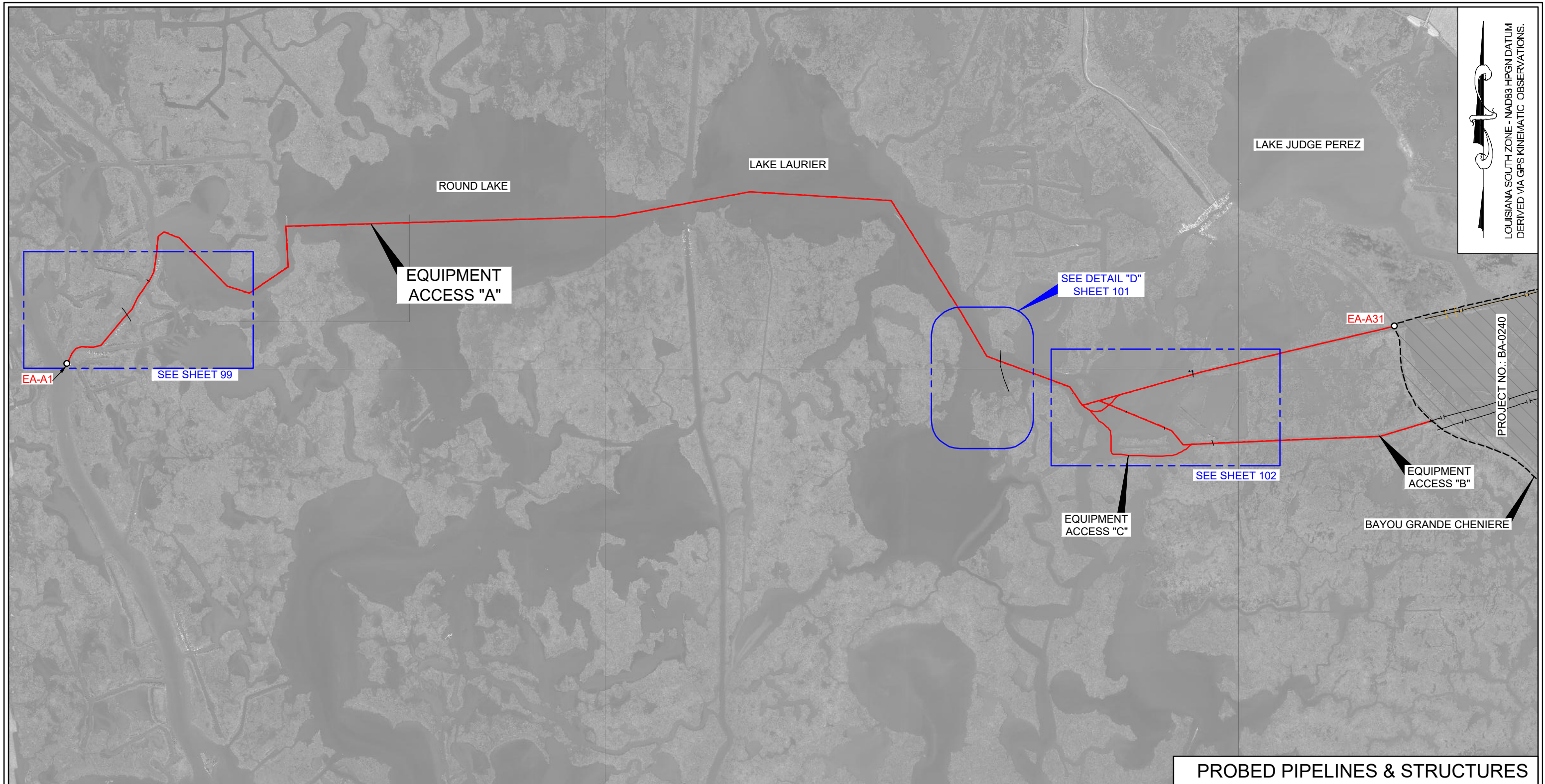
MAGNETOMETER SURVEY

GRAND BAYOU RIDGE AND MARSH RESTORATION PROJECT
PROJECT NO. BA-0217

DESIGN SURVEY

MAGNETOMETER SURVEY ANOMALIES TABLE
PLAQUEMINES PARISH, LA.

SHEET: 96 OF 110



LOUISIANA SOUTH ZONE - NAD83 HPGN DATUM
DERIVED VIA GPS KINEMATIC OBSERVATIONS.

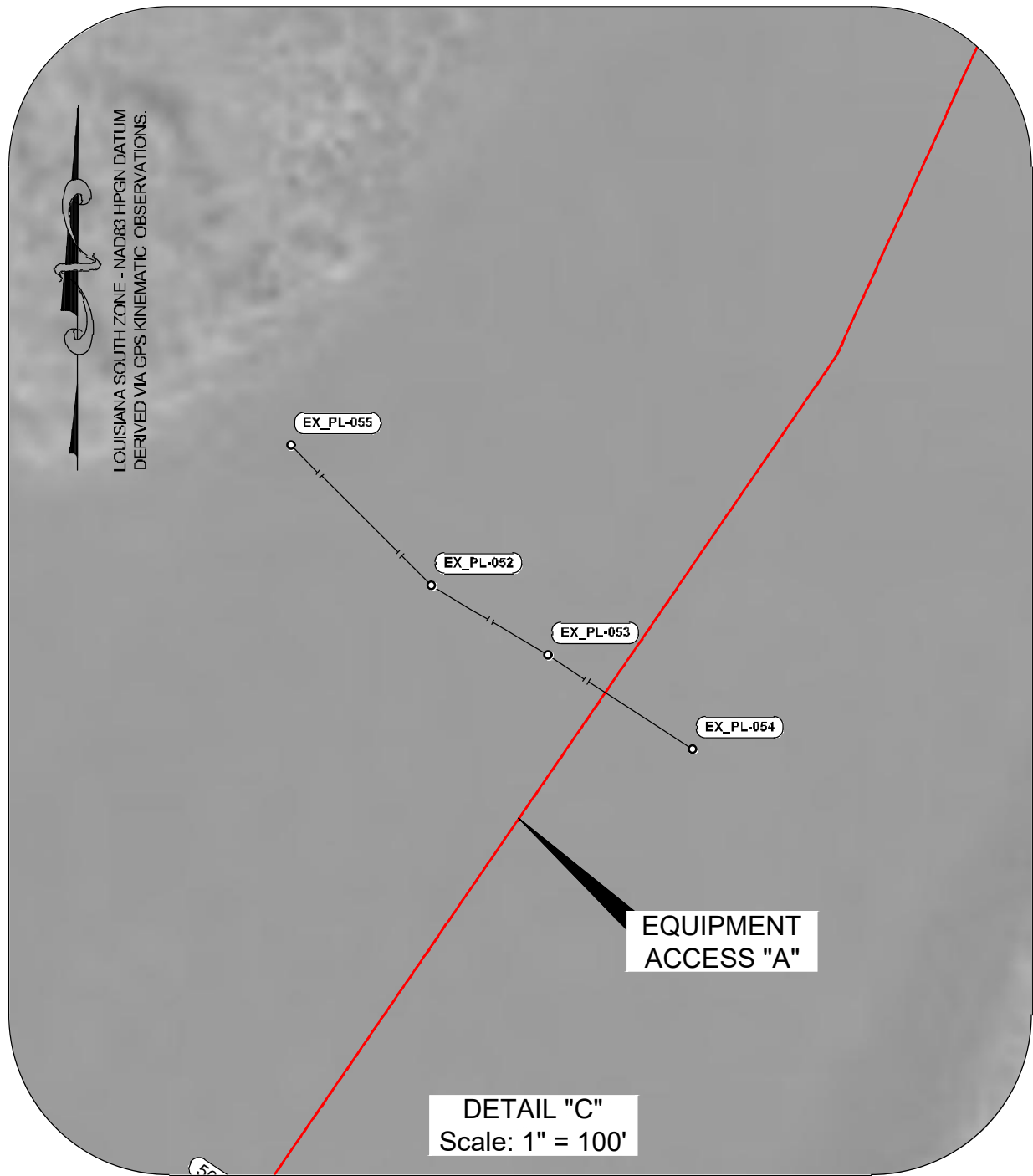
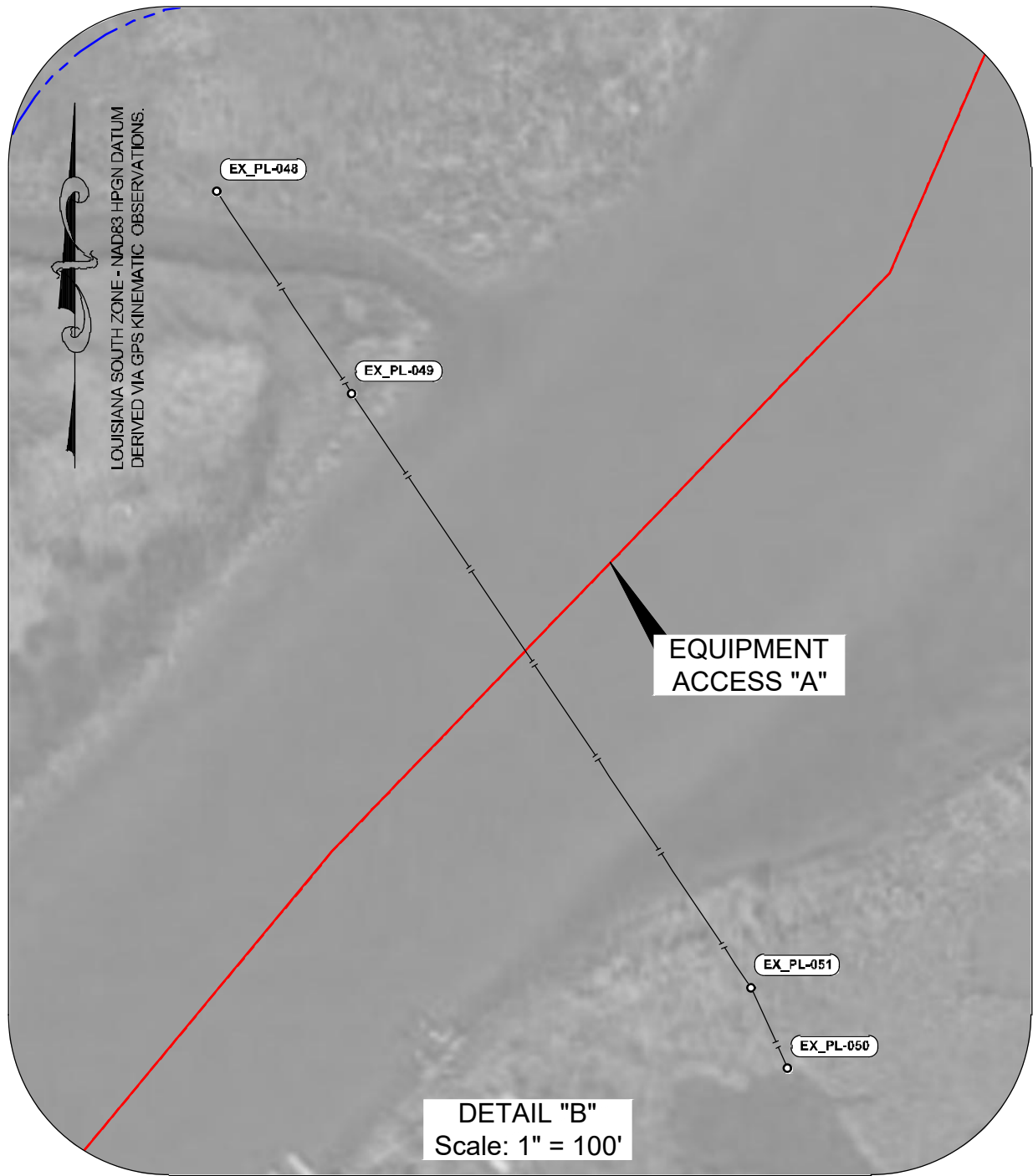


LEGEND	
	PROJECT ALIGNMENTS
	MARSH CREATION AREA PROJECT: BA-0217
	MARSH CREATION AREA PROJECT: BA-0240
	EXISTING PIPELINES

REVISED BY:	DATE:
HORIZONTAL SCALE 1" = 4000'	
DATE: 07/09/2020	JOB# 2201006

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PROBED PIPELINES & STRUCTURES	
GRAND BAYOU RIDGE AND MARSH RESTORATION PROJECT PROJECT NO. BA-0217	
DESIGN SURVEY	
PARTIAL OVERALL PLAN VIEW PLAQUEMINES PARISH, LA.	
SHEET: 97 OF 110	



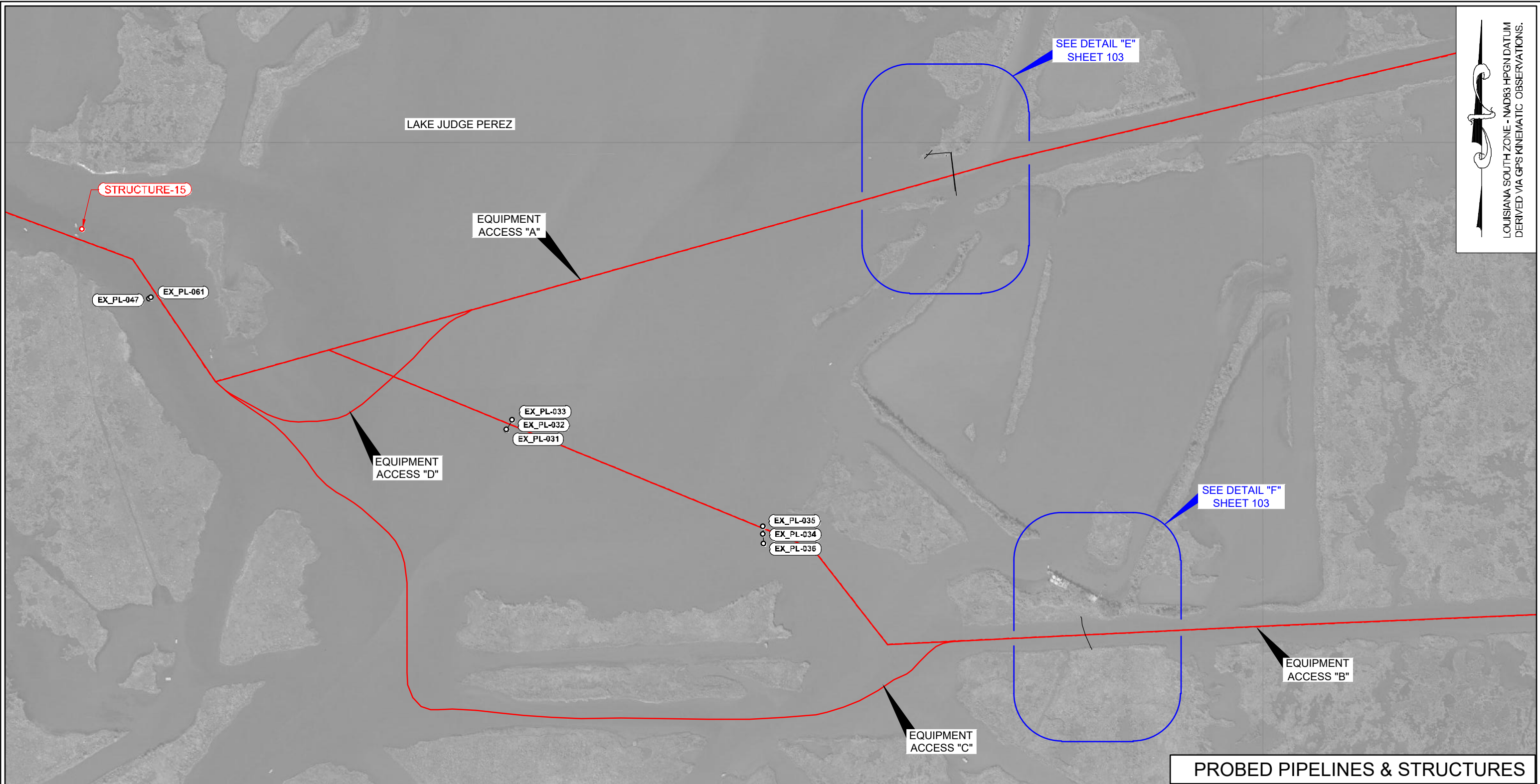
LEGEND	
	PROJECT ALIGNMENTS
	MARSH CREATION AREA PROJECT: BA-0217
	MARSH CREATION AREA PROJECT: BA-0240
	EXISTING PIPELINES

REVISED BY:	DATE:
HORIZONTAL SCALE 1" = 100' 	
DATE: 07/09/2020	JOB# 2201006

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PROBED PIPELINES & STRUCTURES	
GRAND BAYOU RIDGE AND MARSH RESTORATION PROJECT PROJECT NO. BA-0217 DESIGN SURVEY DETAIL VIEWS PLAQUEMINES PARISH, LA.	
	SHEET: 100 OF 110



LOUISIANA SOUTH ZONE - NAD83 HPGN DATUM
DERIVED VIA GPS KINEMATIC OBSERVATIONS.



LEGEND	
	PROJECT ALIGNMENTS
	MARSH CREATION AREA PROJECT: BA-0217
	MARSH CREATION AREA PROJECT: BA-0240
	EXISTING PIPELINES

REVISED BY:	DATE:
HORIZONTAL SCALE 1" = 600'	
DATE: 07/09/2020	JOB# 2201006



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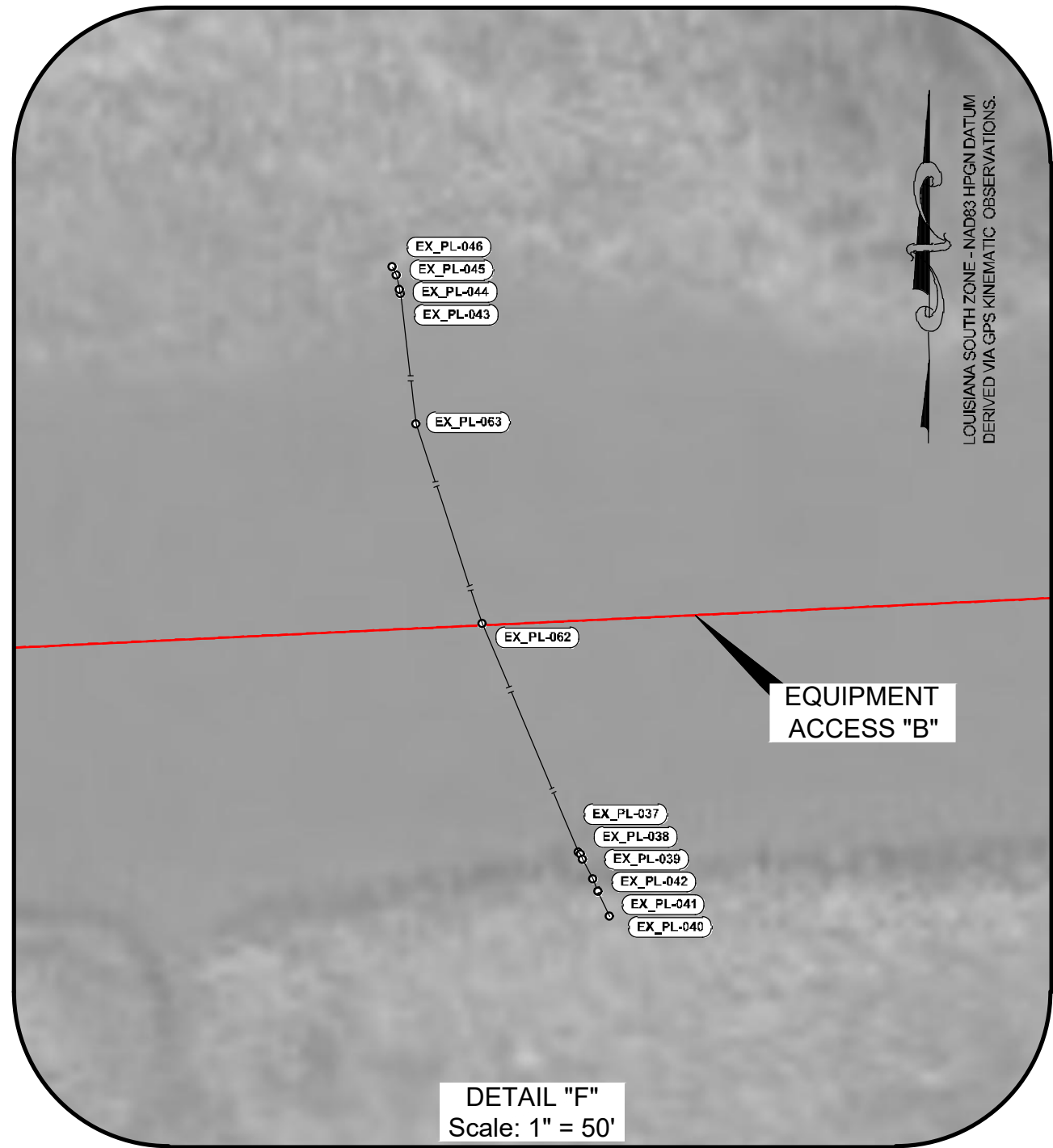
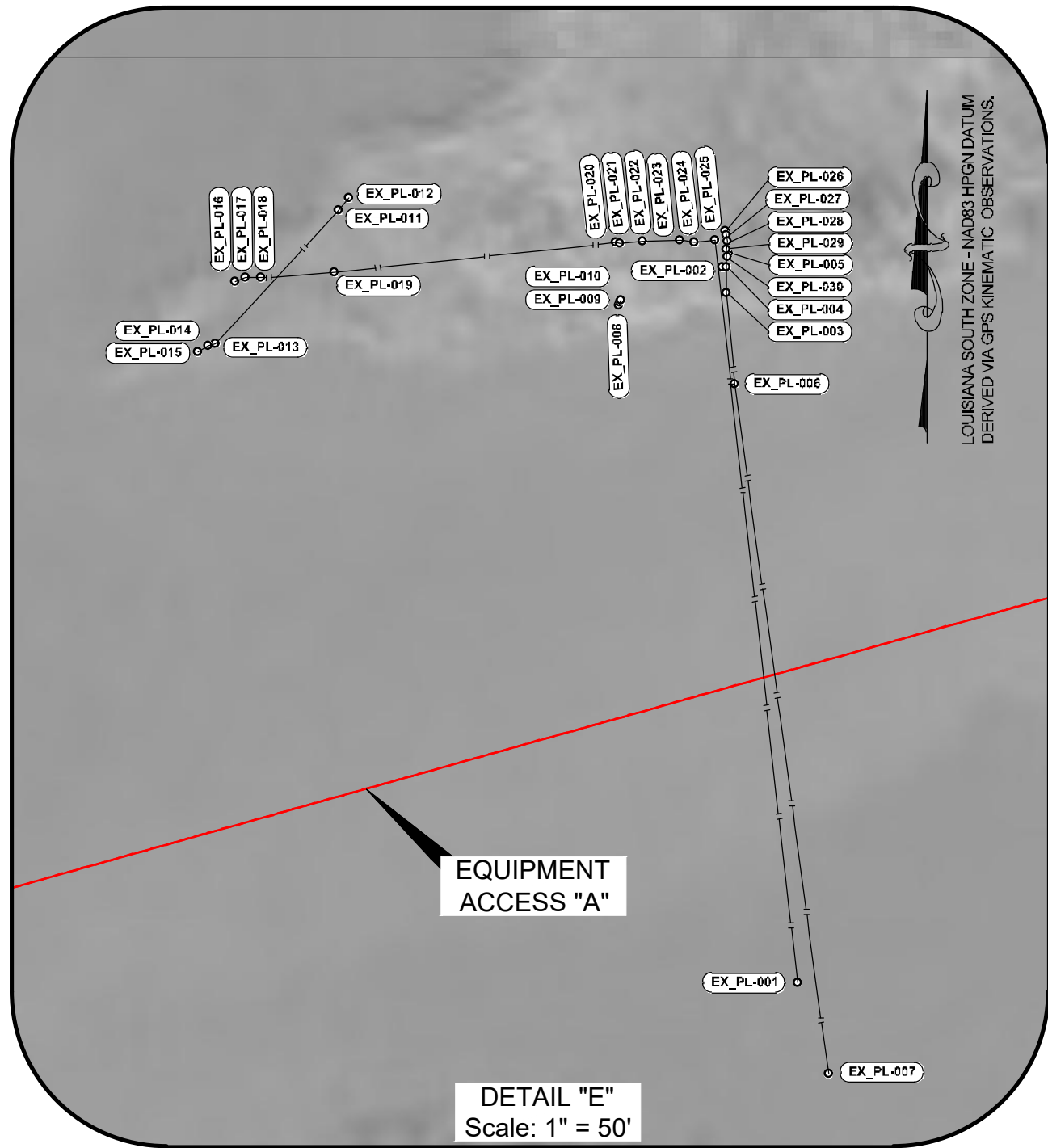
PROBED PIPELINES & STRUCTURES

GRAND BAYOU RIDGE AND
MARSH RESTORATION PROJECT
PROJECT NO. BA-0217

DESIGN SURVEY

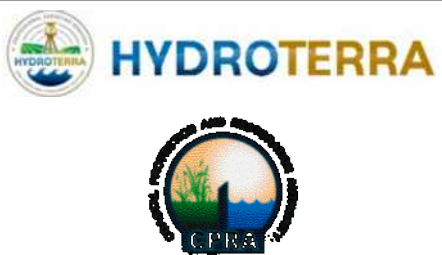
SURVEY PLAN VIEW
PLAQUEMINES PARISH, LA.

SHEET: 102 OF 110



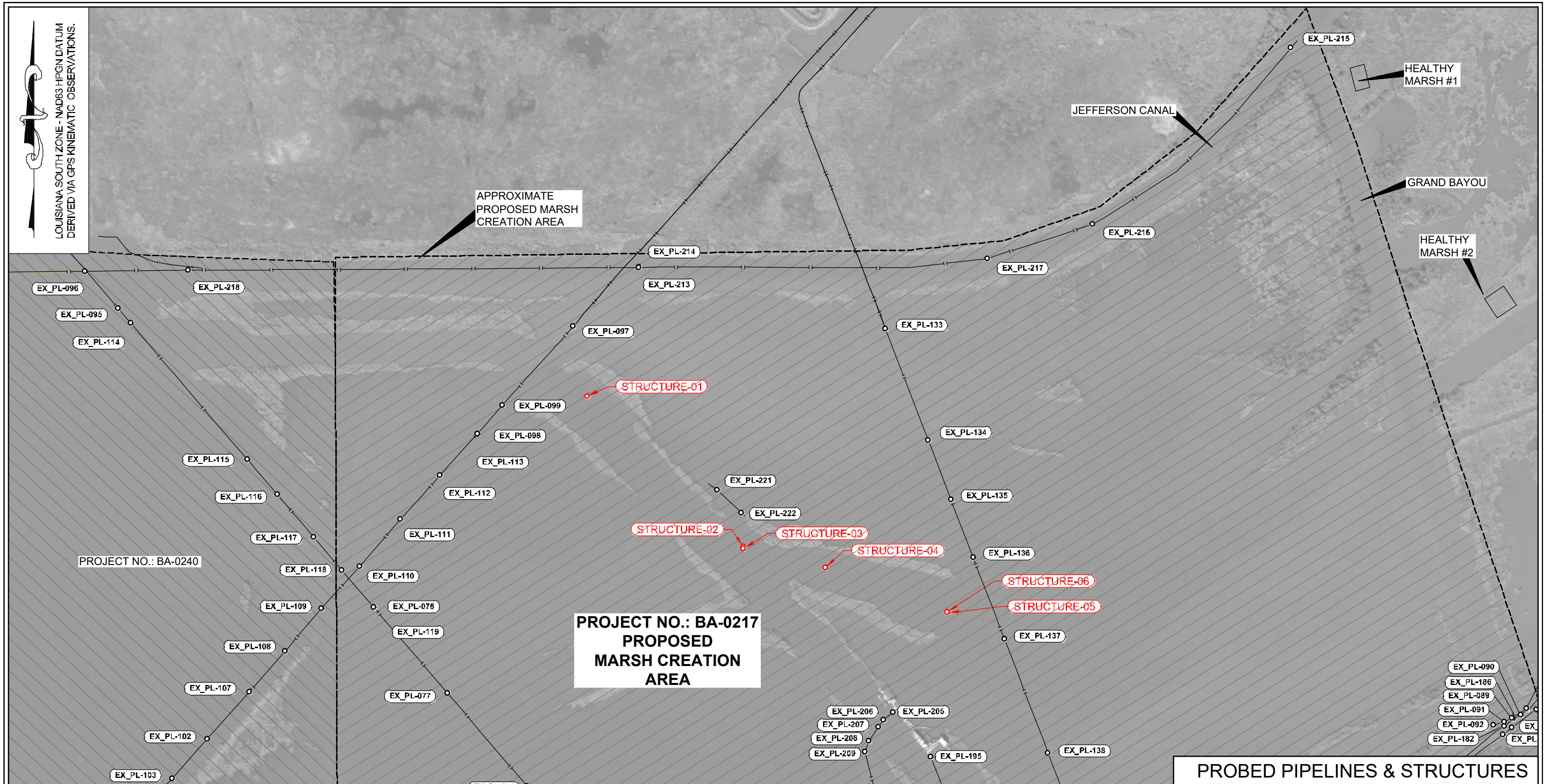
LEGEND	
	PROJECT ALIGNMENTS
	MARSH CREATION AREA PROJECT: BA-0217
	MARSH CREATION AREA PROJECT: BA-0240
	EXISTING PIPELINES

REVISED BY:	DATE:
HORIZONTAL SCALE 1" = 50'	



PROBED PIPELINES & STRUCTURES	
GRAND BAYOU RIDGE AND MARSH RESTORATION PROJECT PROJECT NO. BA-0217 DESIGN SURVEY DETAIL VIEWS PLAQUEMINES PARISH, LA.	
PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583	
DATE: 07/09/2020	JOB# 2201006 FILE: Grand Bayou BA-0217_Design_MAGNETOMETER_070920.dwg
SHEET: 103 OF 110	

LOUISIANA SOUTH ZONE - NAD83 HPGN DATUM
DERIVED VIA GPS KINEMATIC OBSERVATIONS.



LEGEND

- PROJECT ALIGNMENTS
- MARSH CREATION AREA
PROJECT: BA-0217
- MARSH CREATION AREA
PROJECT: BA-0240
- EXISTING PIPELINES

REVISED BY: DATE:

HORIZONTAL SCALE
1" = 500'

500' 0' 250' 500'

DATE: 07/09/2020 JOB# 2201006

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PROBED PIPELINES & STRUCTURES

GRAND BAYOU RIDGE AND MARSH RESTORATION PROJECT
PROJECT NO. BA-0217

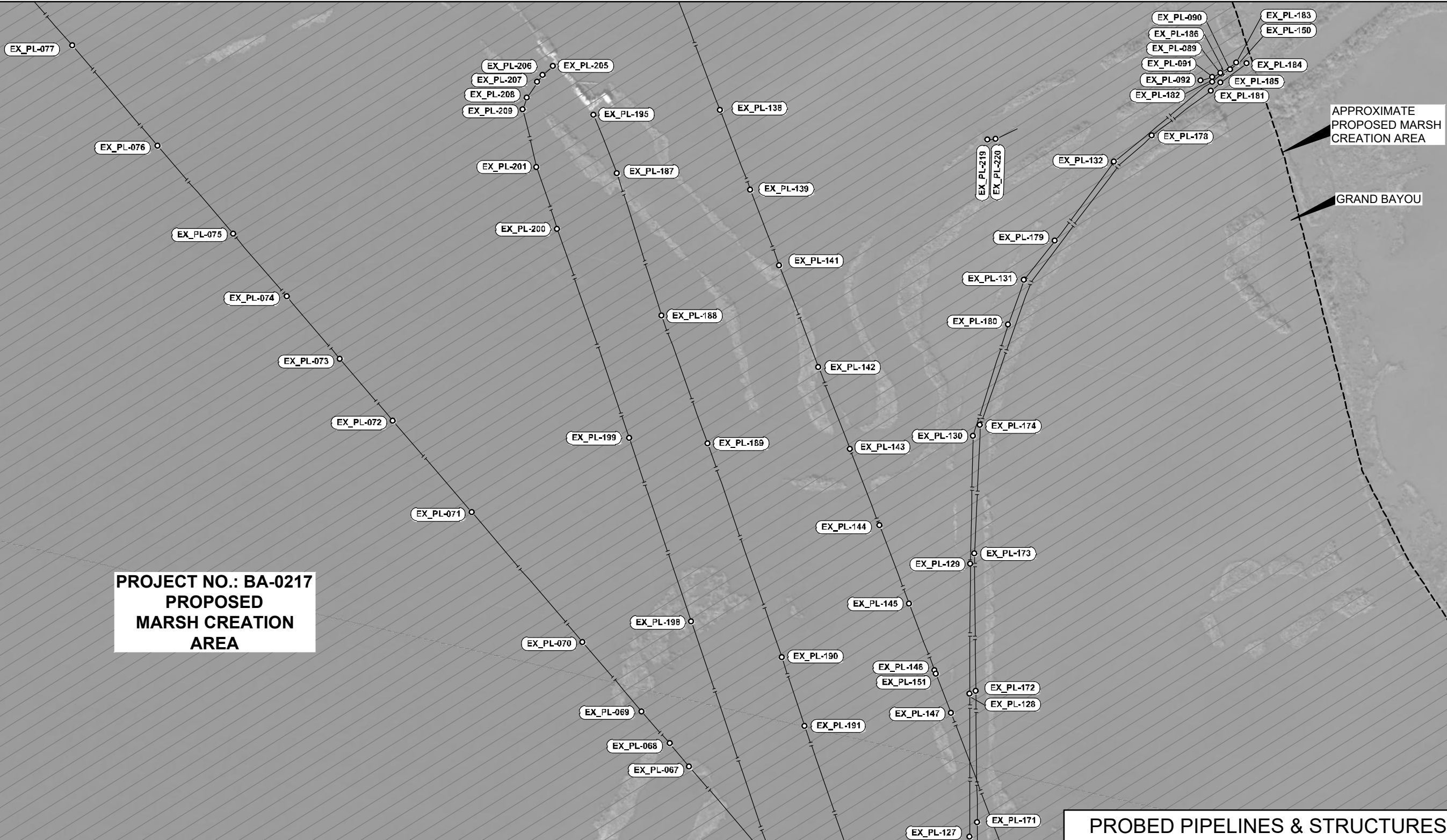
DESIGN SURVEY

PROBED PIPELINE SURVEY PLAN VIEW
PLAQUEMINES PARISH, LA.

SHEET: 104 OF 110



LOUISIANA SOUTH ZONE - NAD83 HPGN DATUM
DERIVED VIA GPS KINEMATIC OBSERVATIONS.



LEGEND

- PROJECT ALIGNMENTS
- MARSH CREATION AREA
PROJECT: BA-0217
- MARSH CREATION AREA
PROJECT: BA-0240
- EXISTING PIPELINES

REVISED BY: DATE:

HORIZONTAL SCALE
1" = 500'

500' 0' 250' 500'

DATE: 07/09/2020 JOB# 2201006

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PROBED PIPELINES & STRUCTURES

GRAND BAYOU RIDGE AND
MARSH RESTORATION PROJECT
PROJECT NO. BA-0217

DESIGN SURVEY

PROBED PIPELINE SURVEY PLAN VIEW
PLAQUEMINES PARISH, LA.

SHEET: 105 OF 110

LOUISIANA SOUTH ZONE - NAD83 HPGN DATUM
DERIVED VIA GPS KINEMATIC OBSERVATIONS.

SEE DETAIL "G"
SHEET 107

PROJECT NO.: BA-0217
PROPOSED
MARSH CREATION
AREA

APPROXIMATE
PROPOSED MARSH
CREATION AREA



LEGEND	
	PROJECT ALIGNMENTS
	MARSH CREATION AREA PROJECT: BA-0217
	MARSH CREATION AREA PROJECT: BA-0240
	EXISTING PIPELINES

REVISED BY:	DATE:
HORIZONTAL SCALE 1" = 500'	
DATE: 07/09/2020	JOB# 2201006



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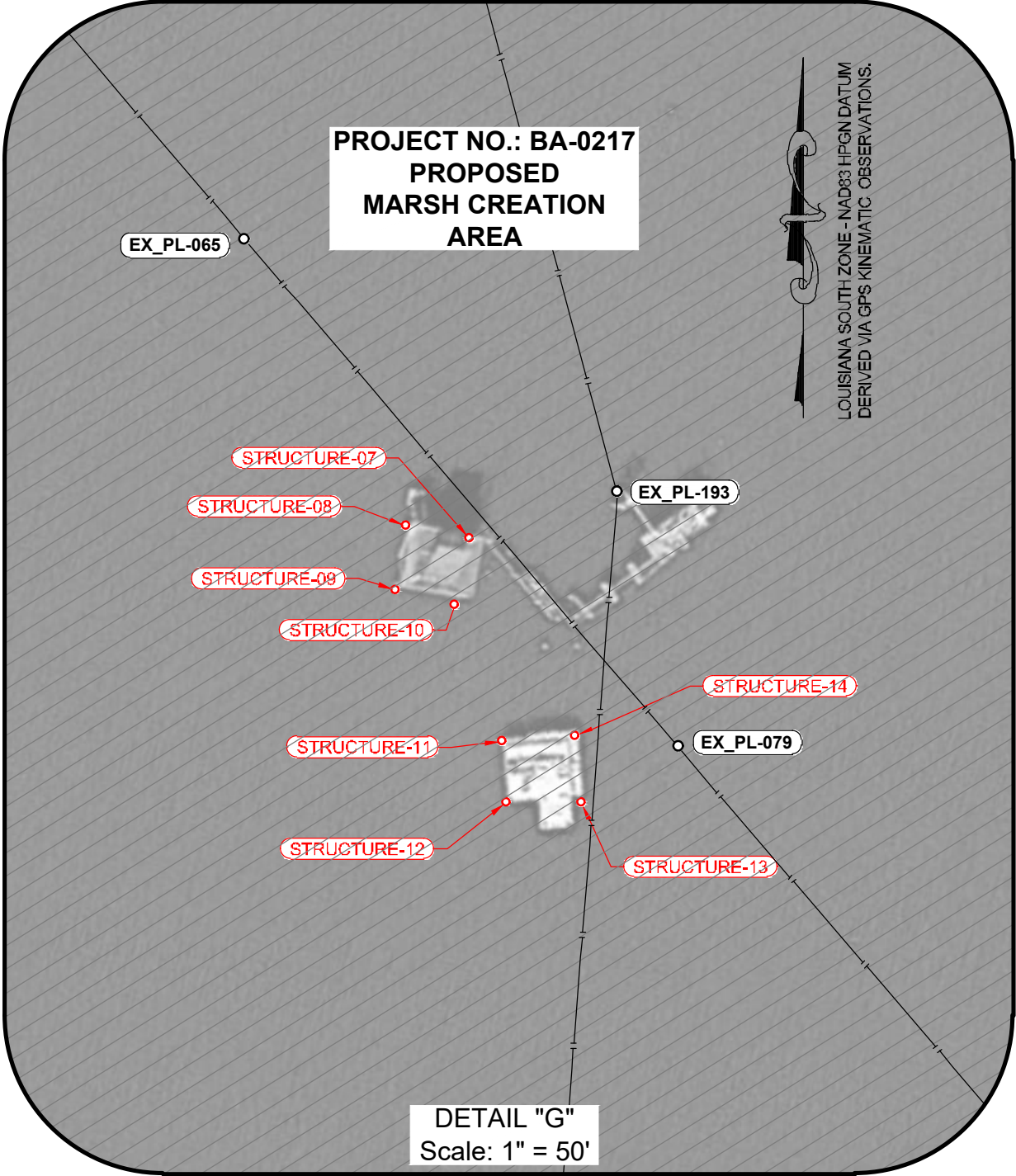
PROBED PIPELINES & STRUCTURES

GRAND BAYOU RIDGE AND
MARSH RESTORATION PROJECT
PROJECT NO. BA-0217

DESIGN SURVEY

PROBED PIPELINE SURVEY PLAN VIEW
PLAQUEMINES PARISH, LA.

SHEET: 106 OF 110



STRUCTURES COORDINATES TABLE			
NAME	NORTHING	EASTING	DESCRIPTION
STRUCTURE-01	385,245.47	3,761,332.71	WELL HEAD
STRUCTURE-02	384,663.14	3,762,305.50	WELL HEAD
STRUCTURE-03	384,655.52	3,762,308.83	WELL HEAD
STRUCTURE-04	384,653.61	3,762,748.21	WELL HEAD
STRUCTURE-05	384,569.42	3,763,428.37	WELL HEAD
STRUCTURE-06	384,570.54	3,763,420.93	WELL HEAD
STRUCTURE-07	379,959.23	3,765,851.42	PLATFORM
STRUCTURE-08	379,958.65	3,765,830.94	PLATFORM
STRUCTURE-09	379,938.28	3,765,832.27	PLATFORM
STRUCTURE-10	379,937.77	3,765,851.68	PLATFORM
STRUCTURE-11	379,899.28	3,765,875.81	PLATFORM
STRUCTURE-12	379,880.97	3,765,881.38	PLATFORM
STRUCTURE-13	379,886.06	3,765,904.51	PLATFORM
STRUCTURE-14	379,906.06	3,765,897.91	PLATFORM
STRUCTURE-15	380,611.48	3,734,950.55	Shrimp Boat Frame
STRUCTURE-16	387,968.24	3,718,574.84	Old Camp Structure
STRUCTURE-17	387,932.65	3,718,538.66	Old Camp Structure



LEGEND	
	PROJECT ALIGNMENTS
	MARSH CREATION AREA PROJECT: BA-0217
	MARSH CREATION AREA PROJECT: BA-0240
	EXISTING PIPELINES

REVISED BY:	DATE:
HORIZONTAL SCALE 1" = 50'	
DATE: 07/09/2020	JOB# 2201006

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PROBED PIPELINES & STRUCTURES

GRAND BAYOU RIDGE AND
MARSH RESTORATION PROJECT
PROJECT NO. BA-0217

DESIGN SURVEY

STRUCTURE DETAIL & STRUCTURE TABLES
PLAQUEMINES PARISH, LA.

SHEET: 107 OF 110

PROBED PIPELINES								PROBED PIPELINES							
Name	Northing	Easting	Elevation	Description	Mudline Elevation	Depth of Cover (ft)	Top of Pipe Elevation	Name	Northing	Easting	Elevation	Description	Mudline Elevation	Depth of Cover (ft)	Top of Pipe Elevation
EX_PL-001	380852.985	3740420.417	-6.04	EX_PL 2.8 COV	-6.04	2.80	-8.84	EX_PL-050	383183.27	3695982.461	-0.661	PHILLIP 66 PL 3.5_COV	-0.66	3.50	-4.16
EX_PL-002	381083.222	3740396.411	1.562	PIPE ON GROUND	1.56	0.00	1.56	EX_PL-051	383233.704	3695959.563	0.434	PHILLIP 66 PL 9.1_COV	0.43	9.10	-8.67
EX_PL-003	381075.103	3740397.422	1.623	PIPE ON GROUND	1.62	0.00	1.62	EX_PL-052	384888.906	3696685.807	0.672	BROKEN PIPE	-6.70	0.00	-6.70
EX_PL-004	381083.458	3740397.661	1.567	PIPE ON GROUND	1.57	0.00	1.57	EX_PL-053	384867.259	3696722.118	0.668	BROKEN PIPE	-10.90	0.00	-10.90
EX_PL-005	381087.639	3740398.258	1.723	PIPE ON GROUND	1.72	0.00	1.72	EX_PL-054	384837.898	3696767.135	0.704	BROKEN PIPE	-10.90	0.00	-10.90
EX_PL-006	381045.795	3740400.332	-1.368	EX_PL 8.0 COV	-1.37	8.00	-9.37	EX_PL-055	384932.496	3696641.895	0.676	BROKEN PIPE	-2.10	0.00	-2.10
EX_PL-007	380823.347	3740430.454	-4.583	EX_PL 2.4 COV	-4.58	2.40	-6.98	EX_PL-056	381962.629	3732384.801	-3.928	EX_PL 3.0 COV	-3.93	3.00	-6.93
EX_PL-008	381071.136	3740362.959	0.921	PIPE ON LAND	0.92	0.00	0.92	EX_PL-057	381945.401	3732384.196	-1.256	EX_PL 2.0 COV	-1.26	2.00	-3.26
EX_PL-009	381072.168	3740363.234	0.719	PIPE ON LAND	0.72	0.00	0.72	EX_PL-058	380220.77	3732725.981	-0.818	EX_PL 2.0 COV	-0.82	2.00	-2.82
EX_PL-010	381072.544	3740363.593	0.683	PIPE ON LAND	0.68	0.00	0.68	EX_PL-059	380753.354	3732503.456	-1.689	PIPELINE MARKER UNAMED			
EX_PL-011	381101.505	3740272.7	-0.39	PIPE ON LAND	-0.39	0.00	-0.39	EX_PL-060	381864.095	3732382.869	-2.689	PIPELINE MARKER UNAMED			
EX_PL-012	381105.538	3740275.929	-0.23	PIPE ON LAND	-0.23	0.00	-0.23	EX_PL-061	380183.161	3735381.238	0.927	EX_PL 7.0 Pipe Dives Down	-6.40	7.00	-13.40
EX_PL-013	381058.717	3740233.214	-0.019	PIPE ON LAND	-0.02	0.00	-0.02	EX_PL-062	378071.073	3741237.215	0.672	EX_PL 3.9 COV	-8.80	3.90	-12.70
EX_PL-014	381058.175	3740230.711	-0.133	PIPE ON LAND	-0.13	0.00	-0.13	EX_PL-063	378135.567	3741215.952	0.601	EX_PL 2.5 COV	-3.40	2.50	-5.90
EX_PL-015	381055.958	3740227.277	-0.297	PIPE ON LAND	-0.30	0.00	-0.30	EX_PL-064	381332.615	3732340.426	0.96	EX_PL 1.0 Mud 10 Ft H2o	-7.60	1.00	-8.60
EX_PL-016	381078.584	3740239.291	0.349	PIPE ON LAND	0.35	0.00	0.35	EX_PL-065	380035.269	3765761.062	-3.715	EX_PL 2.00 WATER 4.2	-3.72	2.00	-5.72
EX_PL-017	381079.976	3740242.659	0.58	PIPE ON LAND	0.58	0.00	0.58	EX_PL-066	380495.849	3765138.754	-3.282	EX_PL 2.2COV WATR 4.2	-3.28	2.20	-5.48
EX_PL-018	381079.869	3740247.772	0.796	PIPE ON LAND	0.80	0.00	0.80	EX_PL-067	380840.434	3764670.546	-1.442	EX_PL 4.5COV WATR 2.0	-1.44	4.50	-5.94
EX_PL-019	381081.623	3740271.472	0.822	PIPE ON LAND	0.82	0.00	0.82	EX_PL-068	380928.773	3764551.07	-4.146	EX_PL 1.5 COV 4.5 WATER	-4.15	1.50	-5.65
EX_PL-020	381091.224	3740361.88	1.196	PIPE ON LAND	1.20	0.00	1.20	EX_PL-069	381050.812	3764384.699	-2.596	EX_PL 3.4 COV 3.3 WATER	-2.60	3.40	-6.00
EX_PL-021	381091.077	3740363.43	1.13	PIPE ON LAND	1.13	0.00	1.13	EX_PL-070	381313.072	3764030.729	-3.054	EX_PL 3.1 COV 3.8 WATER	-3.05	3.10	-6.15
EX_PL-022	381091.754	3740370.618	1.476	PIPE ON LAND	1.48	0.00	1.48	EX_PL-071	381805.261	3763364.468	-3.618	EX_PL 2.3 COV 4.2 WATER	-3.62	2.30	-5.92
EX_PL-023	381092.114	3740382.439	1.681	PIPE ON LAND	1.68	0.00	1.68	EX_PL-072	382150.18	3762894.112	-3.634	EX_PL 1.3COVER 4.2 WATER	-3.63	1.30	-4.93
EX_PL-024	381091.188	3740387.394	1.739	PIPE ON LAND	1.74	0.00	1.74	EX_PL-073	382386.046	3762574.277	-3.59	EX_PL 2.4COVER 4.3 WATER	-3.59	2.40	-5.99
EX_PL-025	381091.937	3740393.892	1.641	PIPE ON LAND	1.64	0.00	1.64	EX_PL-074	382621.928	3762255.59	-3.621	EX_PL 2.0COVER 4.0 WATER	-3.62	2.00	-5.62
EX_PL-026	381094.933	3740397.345	1.607	PIPE ON LAND	1.61	0.00	1.61	EX_PL-075	382859.377	3761934.204	-3.427	EX_PL 2.6 COVER 4.0 WATER	-3.43	2.60	-6.03
EX_PL-027	381093.764	3740397.481	1.83	PIPE ON LAND	1.83	0.00	1.83	EX_PL-076	383192.204	3761482.532	-3.098	EX_PL 2.4 COVER 4.2 WTER	-3.10	2.40	-5.50
EX_PL-028	381091.724	3740397.803	1.863	PIPE ON LAND	1.86	0.00	1.86	EX_PL-077	383571.691	3760970.279	-3.472	EX_PL 2.1 COVER 3.9 WATER	-3.47	2.10	-5.57
EX_PL-029	381088.959	3740397.528	1.7	PIPE ON LAND	1.70	0.00	1.70	EX_PL-078	383919.514	3760497.605	-3.365	EX_PL 4.1 COVER 4.2 WATER	-3.37	4.10	-7.47
EX_PL-030	381086.768	3740397.862	1.725	PIPE ON LAND	1.73	0.00	1.73	EX_PL-079	379909.948	3765930.296	-3.598	EX_PL 2.4 COVER 4.2 WATER	-3.60	2.40	-6.00
EX_PL-031	379354.217	3737610.218	-3.675	EX_PL 6.7 COV	-3.68	6.70	-10.38	EX_PL-080	379180.095	3766922.186	-4.013	EX_PL 2.5 COVER 4.5 WATER	-4.01	2.50	-6.51
EX_PL-032	379356.881	3737608.032	-4.883	EX_PL 6.7 COV	-4.88	6.70	-11.58	EX_PL-081	378971.13	3767206.985	-3.858	EX_PL 2.0 COVER 4.5 WATER	-3.86	2.00	-5.86
EX_PL-033	379415.835	3737645.992	-4.405	POSSIBLE BROKEN PIPE 1.0 COV	-4.41	1.00	-5.41	EX_PL-082	378699.002	3767569.036	-4.147	EX_PL 3.2 COVER 4.1 WATER	-4.15	3.20	-7.35
EX_PL-034	378701.724	3739217.826	-3.203	EX_PL 4.2 COV	-3.20	4.20	-7.40	EX_PL-083	378857.516	3766547.031	-2.417	EX_PL 7.8 COVER 3.0 WATER	-2.42	7.80	-10.22
EX_PL-035	378747.62	3739217.709	-3.042	EX_PL 3.9 COV	-3.04	3.90	-6.94	EX_PL-084	379175.878	3766473.767	-3.789	EX_PL 5.9 COVER 4.3 WATER	-3.79	5.90	-9.69
EX_PL-036	378639.994	3739222.476	-3.258	EX_PL 3.3 COV	-3.26	3.30	-6.56	EX_PL-085	379494.905	3766400.009	-3.97	EX_PL 4.8 COVER 4.2 WATER	-3.97	4.80	-8.77
EX_PL-037	377997.626	3741268.437	-0.78	PIPE ON LAND	-0.78	0.00	-0.78	EX_PL-086	379946.323	3766301.646	-3.835	EXT PL 4.3 COVER 4.4 WATER	-3.84	4.30	-8.14
EX_PL-038	377996.702	3741268.967	0.94	PIPE ON LAND	0.94	0.00	0.94	EX_PL-087	380368.584	3766212.76	-3.718	EX_PL 4.5 COVER 4.2 WATER	-3.72	4.50	-8.22
EX_PL-039	377995.264	3741269.701	2.331	PIPE ON LAND	2.33	0.00	2.33	EX_PL-088	385429.404	3758449.605	0.1	PIPELINE MARKER			
EX_PL-040	377977.008	3741278.143	1.425	PIPE ON LAND	1.43	0.00	1.43	EX_PL-089	384695.694	3766421.596	0.154	EX_PL 3.7 COV	-4.60	3.70	-8.30
EX_PL-041	377984.762	3741274.648	2.079	PIPE ON LAND	2.08	0.00	2.08	EX_PL-090	384720.815	3766462.579	0.549	EX_PL 5.5 COV	-3.90	5.50	-9.40
EX_PL-042	377988.864	3741272.997	2.063	PIPE ON LAND	2.06	0.00	2.06	EX_PL-091	384665.85	3766386.781	0.607	EX_PL 6.55 COV	-0.90	6.55	-7.45
EX_PL-043	378177.385	3741210.912	0.062	PIPE ON LAND	0.06	0.00	0.06	EX_PL-092	384637.097	3766335.225	-1.751	PIPELINE MARKER			
EX_PL-044	378178.84	3741210.683	1.275	PIPE ON LAND	1.28	0.00	1.28	EX_PL-093	378356.148	3767566.513	-0.507	EX_PL 5.4 COV	-0.51	5.40	-5.91
EX_PL-045	378183.465	3741209.782	1.118	PIPE ON LAND	1.12	0.00	1.12	EX_PL-094	378091.173	3767544.669	-0.466	EX_PL 3.4 COV	-0.47	3.40	-3.87
EX_PL-046	378186.083	3741208.511	0.94	PIPE ON LAND	0.94	0.00	0.94	EX_PL-095	385141.943	3758839.233	0.081	EX_PL 10.8 COV	-2.60	10.80	-13.40
EX_PL-047	380177.385	3735371.612	-4.04	EX_PL 2.0 COV	-4.04	2.00	-6.04	EX_PL-096	385292.038	3758626.722	0.619	WATER LINE 13.4 COV	-4.20	8.80	-13.00
EX_PL-048	383728.667	3695626.833	0.686	PHILLIP 66 PL 5.5_COV	0.69	5.50	-4.81	EX_PL-097	385587.124	3761180.841	-2.039	EX_PL 6.2COV	-2.04	6.20	-8.24
EX_PL-049	383603.077	3695711.159	1.321	PHILLIP 66 PL_SIGN				EX_PL-098	384927.164	3760817.846	-2.498	EX_PL 3.5COV	-2.50	3.50	-6.00



REVISED BY:	DATE:



PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

DATE: 07/09/2020

JOB# 2201006

FILE: Grand Bayou BA-0217_Design_MAGNETOMETER_070920.dwg

SHEET: 108 OF 110

PROBED PIPELINES & STRUCTURES

GRAND BAYOU RIDGE AND
MARSH RESTORATION PROJECT
PROJECT NO. BA-0217

DESIGN SURVEY

PROBED PIPELINES TABLE
PLAQUEMINES PARISH, LA.

PROBED PIPELINES								PROBED PIPELINES							
Name	Northing	Easting	Elevation	Description	Mudline Elevation	Depth of Cover (ft)	Top of Pipe Elevation	Name	Northing	Easting	Elevation	Description	Mudline Elevation	Depth of Cover (ft)	Top of Pipe Elevation
EX_PL-099	385103.349	3760912.884	-2.231	EX_PL 4.2COV	-2.23	4.20	-6.43	EX_PL-148	378194.066	3766668.108	0.848	TARGA MARKER			
EX_PL-100	381489.052	3758914.721	-3.036	EX_PL COV3.8 WATER 4.5	-3.04	3.80	-6.84	EX_PL-149	378710.241	3766555.928	0.793	TARGA MARKER			
EX_PL-101	381741.648	3759075.968	-3.055	EX_PL COV2.8 WATER 3.9	-3.06	2.80	-5.86	EX_PL-150	384757.972	3766488.833	0.806	TARGA MARKER			
EX_PL-102	383054.606	3759800.159	-2.847	EX_PL COV3.0WATER 3.8	-2.85	3.00	-5.85	EX_PL-151	381548.661	3765732.652	0.878	GULF SOUTH MARKER			
EX_PL-103	382813.207	3759669.355	-2.667	EX_PL COV2.9WATER 3.6	-2.67	2.90	-5.57	EX_PL-152	377303.9	3768533.531	-1.55	EX_PL 3.4COV WATER 2.2	-1.55	3.40	-4.95
EX_PL-104	382536.271	3759518.279	-0.083	EX_PL COV5.0 WATER 1.0	-0.08	5.00	-5.08	EX_PL-153	377451.721	3768350.968	-0.027	EX_PL 4.6 COVER 1.0 WATER	-0.03	4.60	-4.63
EX_PL-105	382276.885	3759376.625	-1.961	EX_PL COV3.3 WATER 3.2	-1.96	3.30	-5.26	EX_PL-154	377577.385	3768197.233	-0.644	EX_PL 4.2 COVER 1.9 WATER	-0.64	4.20	-4.84
EX_PL-106	382010.825	3759229.055	-3.022	EX_PL COV2.9 WATER 4.0	-3.02	2.90	-5.92	EX_PL-155	377717.112	3768025.992	-1.134	EX_PL 4.2 COVER 1.7 WATER	-1.13	4.20	-5.33
EX_PL-107	383344.572	3759960.493	-2.72	EX_PL COV3.2 WATER 3.5	-2.72	3.20	-5.92	EX_PL-156	377847.014	3767867.108	-0.213	EX_PL 4.0 COVER 1.6 WATER	-0.21	4.00	-4.21
EX_PL-108	383592.166	3760093.783	-2.724	EX_PL COV3.7 WATER 3.6	-2.72	3.70	-6.42	EX_PL-157	377996.019	3767686.84	-0.972	EX_PL 4.8 COVER 2.00 WATER	-0.97	4.80	-5.77
EX_PL-109	383852.561	3760228.099	-2.916	EX_PL COV2.6 WATER 3.8	-2.92	2.60	-5.52	EX_PL-158	378074.069	3767608.981	-1.991	EX_PL 4.8 COVER 2.5 WATER	-1.99	4.80	-6.79
EX_PL-110	384112.673	3760373.733	-1.847	EX_PL COV 3.4 WATER 3.7	-1.85	3.40	-5.25	EX_PL-159	378042.427	3767630.778	-1.382	EX_PL 4.8 COVER 2.5 WATER	-1.38	4.80	-6.18
EX_PL-111	384400.604	3760528.092	-2.8	EX_PL COV 2.9 WATER 3.9	-2.80	2.90	-5.70	EX_PL-160	378570.53	3767648.691	-3.246	EX_PL 4.5 COVER 4.6 WATER	-3.25	4.50	-7.75
EX_PL-112	384669.838	3760676.845	-2.588	EX_PL COV 3.4 WATER 3.4	-2.59	3.40	-5.99	EX_PL-161	378688.84	3767655.37	-3.18	EX_PL1.7COVER 4.5 WATER	-3.18	1.70	-4.88
EX_PL-113	384927.164	3760817.846	-2.498	EX_PL 3.5COV	-2.50	3.50	-6.00	EX_PL-162	378731.137	3767639.097	-3.651	EX_PL1.1COVER 4.8 WATER	-3.65	1.10	-4.75
EX_PL-114	385083.123	3758921.529	-2.789	EX_PL COV 5.3 WATER 4.1	-2.80	5.30	-8.10	EX_PL-163	378784.176	3767598.485	-3.682	EX_PL1.8COVER 4.6 WATER	-3.68	1.80	-5.48
EX_PL-115	384525.776	3759675.718	-3.057	EX_PL COV 5.6 WATER 4.1	-3.06	5.60	-8.66	EX_PL-164	380735.804	3766278.395	-2.838	EX_PL3.2 COVER 4.4WATER	-2.84	3.20	-6.04
EX_PL-116	384381.749	3759869.491	-2.886	EX_PL COV 4.9 WATER 4.1	-2.89	4.90	-7.79	EX_PL-165	380405.868	3766504.087	-3.206	EX_PL 3.8COVER 4.6 WATER	-3.21	3.80	-7.01
EX_PL-117	384208.608	3760105.921	-3.482	EX_PL COV 4.7 WATER 4.0	-3.48	4.70	-8.18	EX_PL-166	380097.976	3766710.67	-3.253	EX_PL 4.0COVER 4.6 WATER	-3.25	4.00	-7.25
EX_PL-118	384071.989	3760287.664	-3.283	EX_PL COV 4.3 WATER 4.2	-3.28	4.30	-7.58	EX_PL-167	379793.03	3766916.791	-3.385	EX_PL 5.4COVER 4.8 WATER	-3.39	5.40	-8.79
EX_PL-119	383922.462	3760494.205	-3.256	EX_PL COV 4.2 WATER 4.1	-3.26	4.20	-7.46	EX_PL-168	379446.671	3767151.111	-3.658	EX_PL 1.3COVER 5.1 WATER	-3.66	1.30	-4.96
EX_PL-120	378353.153	3766631.843	-2.896	EX_PL COV 7.2 WATER 3.9	-2.90	7.20	-10.10	EX_PL-169	379152.599	3767349.736	-3.336	EX_PL 2.4COVER 4.8 WATER	-3.34	2.40	-5.74
EX_PL-121	378359.003	3766672.979	-1.88	EX_PL COV 7.5 WATER 3.9	-1.88	7.50	-9.38	EX_PL-170	378962.036	3767475.496	-3.516	EX_PL 2.0COVER 4.8 WATER	-3.52	2.00	-5.52
EX_PL-122	378969.417	3766522.021	-3.402	EX_PL COV 5.0 WATER 4.2	-3.40	5.00	-8.40	EX_PL-171	380892.38	3766090.435	-2.524	EX_PL 5.5COV WATER 2.8	-2.52	5.50	-8.02
EX_PL-123	378965.647	3766496.71	-3.534	EX_PL 7.0COV WATER 3.9	-3.53	7.00	-10.53	EX_PL-172	381509.522	3765939.052	-1.953	EX_PL 7.1COV WATER 2.0	-1.95	7.10	-9.05
EX_PL-124	379392.598	3766400.241	-3.526	EX_PL 7.1COV WATER 4.0	-3.53	7.10	-10.63	EX_PL-173	382156.598	3765784.093	-1.909	EX_PL 8.9 COVER 2.3 WATER	-1.91	8.90	-10.81
EX_PL-125	379846.655	3766296.326	-3.809	EX_PL 6.7COV WATER 4.5	-3.81	6.70	-10.51	EX_PL-174	382770.706	3765671.267	-1.577	EX_PL 6.1 COVER 1.8 WATER	-1.58	6.10	-7.68
EX_PL-126	380305.525	3766189.242	-3.695	EX_PL 7.8COV WATER 4.2	-3.70	7.80	-11.50	EX_PL-175	377542.802	3766105.799	2.245	EX_PL CUT-CAPPED	2.25	0.00	2.25
EX_PL-127	380816.439	3766070.764	-3.189	EX_PL 9.0COV WATER 3.5	-3.19	9.00	-12.19	EX_PL-176	377750.281	3766061.602	-0.256	EX_PL 0.00COV	-0.26	0.00	-0.26
EX_PL-128	381491.288	3765914.912	-2.28	EX_PL 8.7COV WATER 2.3	-2.28	8.70	-10.98	EX_PL-177	377822.775	3766055.03	-0.677	EX_PL 0.00COV CUT	-0.68	0.00	-0.68
EX_PL-129	382106.228	3765773.851	-2.259	EX_PL 6.8COV WATER 2.5	-2.26	6.80	-9.06	EX_PL-178	384323.374	3766165.802	-0.2	EX_PL 10.0 COVER	-0.20	10.00	-10.20
EX_PL-130	382711.814	3765649.335	-1.677	EX_PL 7.9 COVER 2.2 WATER	-1.68	7.90	-9.58	EX_PL-179	383721.903	3765823.847	-0.811	EX_PL 8.7 COVER	-0.81	8.70	-9.51
EX_PL-131	383502.326	3765718.926	-2.4	EX_PL 9.0 COVER 2.0 WATER	-2.40	9.00	-11.40	EX_PL-180	383276.651	3765693.704	-0.693	EX_PL 10.1 COVER	-0.69	10.10	-10.79
EX_PL-132	384160.835	3766016.58	-2.5	EX_PL 8.5 COVER 2.7 WATER	-2.50	8.50	-11.00	EX_PL-181	384600.408	3766396.37	-1.04	EX_PL 14.3 COV	-1.04	14.30	-15.34
EX_PL-133	385940.894	3762774.569	-2.456	EX_PL 4.3 COVER 3.3 WATER	-2.46	4.30	-6.76	EX_PL-182	384643.995	3766391.46	-1.281	EX_PL 11.9 COV	-1.28	11.90	-13.18
EX_PL-134	385424.081	3763121.748	-2.711	EX_PL 3.4 COVER 3.8 WATER	-2.71	3.40	-6.11	EX_PL-183	384760.792	3766487.424	-2.526	EX_PL 12.0 COV	-2.53	12.00	-14.53
EX_PL-135	385147.64	3763307.777	-2.604	EX_PL 2.6 COVER 3.1 WATER	-2.60	2.60	-5.20	EX_PL-184	384768.251	3766534.669	-0.482	EX_PL 13.0 COV	-0.48	13.00	-13.48
EX_PL-136	384878.695	3763488.686	-2.914	EX_PL 2.8 COVER 3.2 WATER	-2.91	2.80	-5.71	EX_PL-185	384648.36	3766433.722	-1.897	EX_PL 12.3 COV	-1.90	12.30	-14.20
EX_PL-137	384500.279	3763744.965	-3.046	EX_PL 3.6 COVER 3.5 WATER	-3.05	3.60	-6.65	EX_PL-186	384692.983	3766429.973	-4.582	EX_PL 9.3 COV	-4.60	9.30	-13.90
EX_PL-138	383972.372	3764100.688	-3.446	EX_PL 3.8 COVER 3.5 WATER	-3.45	3.80	-7.25	EX_PL-187	383561.64	3763683.145	-1.972	EX_PL COV3.8 H2O 2.7	-1.97	3.80	-5.77
EX_PL-139	383629.786	3764330.717	-3.35	EX_PL 2.6 COVER 3.5 WATER	-3.35	2.60	-5.95	EX_PL-188	382939.145	3764047.384	-3.133	EX_PL COV3.3 H2O 2.7	-3.13	3.30	-6.43
EX_PL-140	378156.871	3766718.334	0.401	CAYENNE RISER				EX_PL-189	382386.041	3764404.474	-3.291	EX_PL COV3.0 H2O 2.5	-3.29	3.00	-6.29
EX_PL-141	383304.881	3764549.37	-2.672	EX_PL 3.5COV WATER 3.0	-2.67	3.50	-6.17	EX_PL-190	381456.968	3764987.455	-2.873	EX_PL COV2.3 H2O 3.0	-2.87	2.30	-5.17
EX_PL-142	382866.456	3764845.436	-1	EX_PL 4.8COV WATER .5	-1.00	4.80	-5.80	EX_PL-191	381158.483	3765170.137	-3.324	EX_PL COV2.6 H2O 3.0	-3.32	2.60	-5.92
EX_PL-143	382516.61	3765080.572	-2.832	EX_PL 6.3COV WATER 2.5	-2.83	6.30	-9.13	EX_PL-192	380143.46	3765808.642	-3.599	EX_PL COV2.5 H2O 4.0	-3.60	2.50	-6.10
EX_PL-144	382186.386	3765304.537	-2.338	EX_PL 2.8COV WATER 3.0	-2.34	2.80	-5.14	EX_PL-193	379983.897	3765893.52	-3.865	WELL			
EX_PL-145	381850.414	3765530.28	-2.614	EX_PL 3.6COV WATER 3.0	-2.61	3.60	-6.21	EX_PL-194	380533.172	3765561.332	-3.253	EX_PL COV3.3 H2O 3.8	-3.25	3.30	-6.55
EX_PL-146	381562.575	3765723.024	-2.83	EX_PL 4.2COV WATER 2.9	-2.83	4.20	-7.03	EX_PL-195	383812.637	3763506.417	-2.805	EX_PL COV 7.4 H2O 3.7	-2.81	7.40	-10.21
EX_PL-147	381378.701	3765847.57	-2.297	EX_PL 8.2COV WATER 2.1	-2.30	8.20	-10.50	EX_PL-196	379627.839	3765693.735	-3.547	EX_PL_COV_.215	-3.55	2.15	-5.70



REVISED BY:	DATE:
DATE: 07/09/2020	JOB# 2201006



HYDROTERRA

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FILE: Grand Bayou BA-0217_Design_MAGNETOMETER_070920.dwg

PROBED PIPELINES & STRUCTURES

GRAND BAYOU RIDGE AND MARSH RESTORATION PROJECT
PROJECT NO. BA-0217

DESIGN SURVEY

PROBED PIPELINES TABLE
PLAQUEMINES PARISH, LA.

PROBED PIPELINES							
Name	Northing	Easting	Elevation	Description	Mudline Elevation	Depth of Cover (ft)	Top of Pipe Elevation
EX_PL-197	380364.941	3765238.561	-3.411	EX_PL_COV_5.1	-3.41	5.10	-8.51
EX_PL-198	381526.867	3764521.437	-2.442	EX_PL_COV_2.4	-2.44	2.40	-4.84
EX_PL-199	382327.182	3764026.788	-3.016	EX_PL_COV_2.5	-3.02	2.50	-5.52
EX_PL-200	383236.467	3763460.433	-3.603	EX_PL_COV_1.4	-3.60	1.40	-5.00
EX_PL-201	383505.894	3763295.783	-3.093	EX_PL_COV_2.4	-3.09	2.40	-5.49
EX_PL-202	378152.019	3766623.126	-2.149	EX_PL_COV_2.6	-2.15	2.60	-4.75
EX_PL-203	378160.231	3766611.226	-2.045	EX_PL_COV_1.9	-2.05	1.90	-3.95
EX_PL-204	378292.214	3766526.786	-1.848	EX_PL_COV_1.8	-1.85	1.80	-3.65
EX_PL-205	383998.098	3763262.444	-2.68	EX_PL EX_PL COV 8.0 H2O 3.8	-2.68	8.00	-10.68
EX_PL-206	383945.231	3763222.865	-4.21	EX_PL EX_PL COV 7.2 H2O 3.8	-4.21	7.20	-11.41
EX_PL-207	383905.834	3763205.275	-2.596	EX_PL COV 8.2 H2O 3.8	-2.60	8.20	-10.80
EX_PL-208	383821.672	3763173.024	-2.236	EX_PL COV 3.3 H2O 2.0	-2.24	3.30	-5.54
EX_PL-209	383762.83	3763168.018	-2.661	EX_PL COV 3.8	-2.66	3.80	-6.46
EX_PL-210	379092.829	3766026.522	-1.496	EX_PL COV 3.4 H2O 2.4	-1.50	3.40	-4.90
EX_PL-211	378713.041	3766259.665	-1.906	EX_PL COV 8.0 H2O 3.0	-1.91	8.00	-9.91
EX_PL-212	378481.651	3766410.608	-2.063	EX_PL COV 7.7 H2O 3.0	-2.06	7.70	-9.76
EX_PL-213	385965.197	3761444.621	1.684	EX_PL COV. 10.5	-4.32	10.50	-14.82
EX_PL-214	385963.39	3761445.095	-4.32	EX_PL COV. 10.5	-4.32	10.50	-14.82
EX_PL-215	387847.876	3764507.984	-3.745	EX_PL COV 5.7 H2O 4.1	-3.75	5.70	-9.45
EX_PL-216	386716.078	3763703.938	-2.929	EX_PL COV 12.8 H2O 4.1	-2.93	12.80	-15.73
EX_PL-217	386418.804	3763209.953	-3.053	EX_PL COV 14 H2O 4.1	-3.05	14.00	-17.05
EX_PL-218	385420.583	3759151.863	-3.666	EX_PL 9.3 COV 5 HSO	-3.67	9.30	-12.97
EX_PL-219	384124.377	3765393.54	-1.162	DEAD LINE	-1.16	0.00	-1.16
EX_PL-220	384138.079	3765434.402	-2.067	DEAD LINE	-2.07	0.00	-2.07
EX_PL-221	384923.505	3762106.601	-1.906	EX_PL COV0.0	-1.91	0.00	-1.91
EX_PL-222	384834.396	3762256.424	-2.627	EX_PL COV0.0	-2.63	0.00	-2.63



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SHEET: 110 OF 110