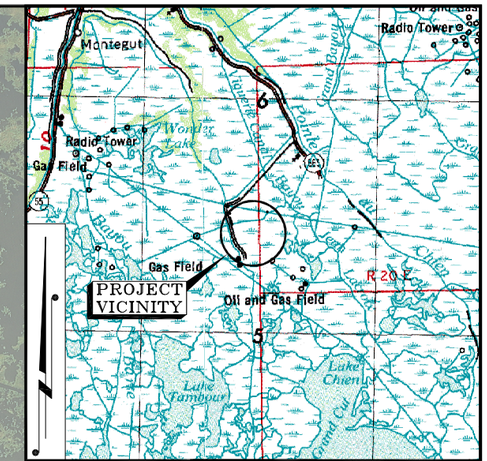
NOTES:
1. TOPOGRAPHIC AND BATHYMETRIC SURVEYS WERE PERFORMED FROM JANUARY 19, 2016 TO MARCH 4, 2016 BY T. BAKER SMITH, LLC.
2. ALL GRID COORDINATES ARE EXPRESSED IN LOUISIANA STATE PLANE, SOUTH ZONE, NAD 83, IN U.S. SURVEY FEET. GEOGRAPHIC COORDINATES ARE NAD83.
3. THE VERTICAL DATUM FOR ALL ELEVATIONS IS NAVD 88 (GEOID 12A), IN U.S. SURVEY FEET.
4. THE REFERENCE BENCHMARK FOR THIS SURVEY IS "TE10-SM-08".
5. BACKGROUND IMAGERY SOURCED FROM 2013 DOQQ AERIAL PHOTOGRAPHY.

"TE10-SM-08"
ELEV. = 1.09'

X = 3,562,994.43'	NAD 83
Y = 334,370.51'	
LAT = 29° 24' 59.1964"	NAD 83
LONG = 90° 26' 49.5497"	



VICINITY MAP
1" = 4 MILES

ISLAND ROAD MARSH CREATION AND NOURISHMENT PROJECT (TE-117)

ISLAND ROAD

CRMS3296

STAFF GAUGE

X = 3,561,460.09'	NAD 83
Y = 326,002.34'	
LAT = 29° 23' 36.4739"	NAD 83
LONG = 90° 27' 7.6262"	

STAFF GAUGE
(CLOSE UP)
NOT TO SCALE

STAFF GAUGE
(FULL VIEW)
LOOKING NORTHWESTERLY
NOT TO SCALE

LEGEND
- PROJECT AREA
- STAFF GAUGE
- BENCHMARK

INDEX TO SHEETS

SHEET NO.	DESCRIPTION
1	OVERALL PLAN VIEW
2	CROSS-SECTION PLAN VIEW
3	CONTOUR MAP
4-9	CROSS-SECTIONS
10-18	MAG DRAWINGS
19-20	PIPELINE PROFILES
21	PUMP STATION PLAN VIEW
22-23	PUMP STATION CROSS-SECTIONS
24-29	AVERAGE MARSH ELEVATION

I CERTIFY THAT THE TOPOGRAPHIC SURVEY DEPICTED ON THIS PLAT WAS PERFORMED ON THE GROUND UNDER MY SUPERVISION IN ACCORDANCE WITH GENERALLY ACCEPTED SURVEY PRACTICES. THIS SURVEY DOES NOT MEET THE STANDARDS OF PRACTICE FOR BOUNDARY SURVEYS AS SET FORTH BY THE LOUISIANA PROFESSIONAL ENGINEERS AND LAND SURVEYORS BOARD.

JAMES B. PELLEGRIN REG. No. 4828 REGISTERED PROFESSIONAL LAND SURVEYOR STATE OF LOUISIANA

APPROVED: _____
JAMES B. PELLEGRIN
LA. LAND SURVEYOR REG. NO. 4828
P.O. BOX 2266, HOUMA, LA 70361 (985)868-1050

Staff Gauge

DESC.	NORTH AMERICAN DATUM OF 1983 (NAD83)						ELEV. (NAVD88) GEOID 12A
	LA SOUTH ZONE (1702) FEET		GEODETIC POSITION		UTM (ZONE 15) METER		
	Easting	Northing	Latitude	Longitude	Easting	Northing	
TOP OF 4X4 POST	3,561,460.09	326,002.34	29° 23' 36.4565"	90° 27' 07.6188"	747,260.59	3,254,278.34	4.81'
60d NAIL	3,561,460.09	326,002.34	29° 23' 36.4565"	90° 27' 07.6188"	747,260.59	3,254,278.34	3.83'

NOTES:
1. THIS STAFF GAUGE WAS SET ON MARCH 22, 2016.

NOTES:

CPRA

TBS T. BAKER SMITH
SOLUTIONS START HERE
412 South Van Ave, Houma, LA 70363
(985)868-1050 - tbsmith.com

SCALE IN FEET
2000' 1000' 0' 2000'

REV. NO:	REV. DATE:	REV. BY:
00	--/--/--	---

REVISION DESCRIPTION:
--

DRAWN BY:	JTR	APPROVED BY:	KAK
DATE:	2/29/2016	JOB NO:	2015.0962
DRAWING NAME:	150962_SHEET 1.dwg		

PROJECTION: LOUISIANA SOUTH
GEO. DATUM: NAD83 | VERT. DATUM: NAVD88
GRID UNITS: US SURVEY FEET

SHEET NO: 1 OF 29

Overall Plan View

Island Road Marsh Creation and Nourishment Project (TE-117)
For
Coastal Protection and Restoration Authority
of Louisiana
Terrebonne Parish,
Louisiana

4/28/2016 - P:\Y-2015\2015.0962\DWG\150962_SHEET 1.DWG

NOTES:
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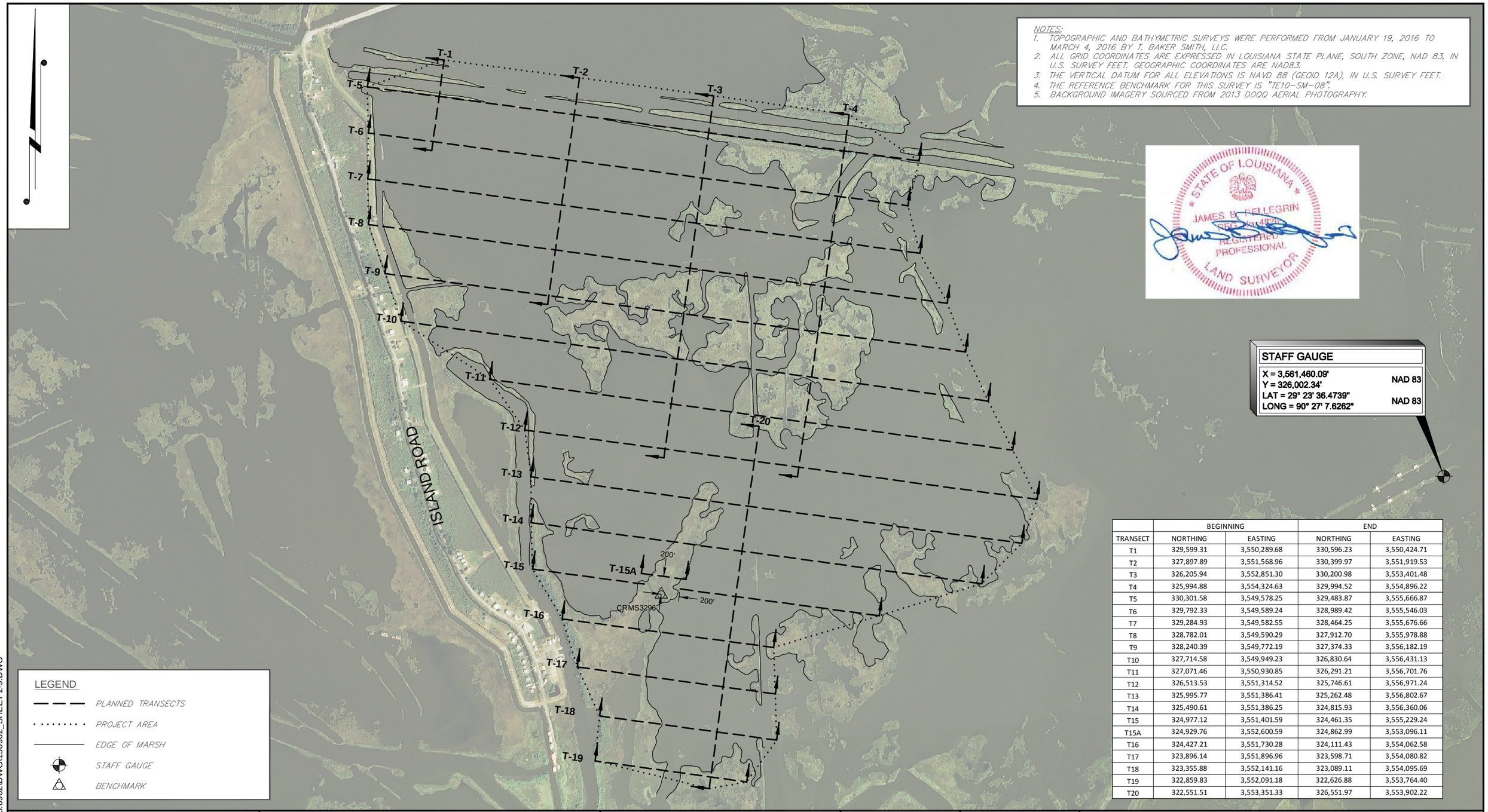


	BEGINNING		END	
TRANSECT	NORTHING	EASTING	NORTHING	EASTING
T1	329,599.31	3,550,289.68	330,596.23	3,550,424.71
T2	327,897.89	3,551,568.96	330,399.97	3,551,919.53
T3	326,205.94	3,552,851.30	330,200.98	3,553,401.48
T4	325,994.88	3,554,324.63	329,994.52	3,554,896.22
T5	330,301.58	3,549,578.25	329,483.87	3,555,666.87
T6	329,792.33	3,549,589.24	328,989.42	3,555,546.03
T7	329,284.93	3,549,582.55	328,464.25	3,555,676.66
T8	328,782.01	3,549,590.29	327,912.70	3,555,978.88
T9	328,240.39	3,549,772.19	327,374.33	3,556,182.19
T10	327,714.58	3,549,949.23	326,830.64	3,556,431.13
T11	327,071.46	3,550,930.85	326,291.21	3,556,701.76
T12	326,513.53	3,551,314.52	325,746.61	3,556,971.24
T13	325,995.77	3,551,386.41	325,262.48	3,556,802.67
T14	325,490.61	3,551,386.25	324,815.93	3,556,360.06
T15	324,977.12	3,551,401.59	324,461.35	3,555,229.24
T15A	324,929.76	3,552,600.59	324,862.99	3,553,096.11
T16	324,427.21	3,551,730.28	324,111.43	3,554,062.58
T17	323,896.14	3,551,896.96	323,598.71	3,554,080.82
T18	323,355.88	3,552,141.16	323,089.11	3,554,095.69
T19	322,859.83	3,552,091.18	322,626.88	3,553,764.40
T20	322,551.51	3,553,351.33	326,551.97	3,553,902.22

NOTES:

CPRA

TBS T. BAKER SMITH
SOLUTIONS START HERE
412 South Van Ave, Houma, LA 70363
(985)868-1050 - tbsmith.com

SCALE IN FEET
1000' 500' 0' 1000'

REV. NO:	00	REV. DATE:	--/--/--	REV. BY:	---

REVISION DESCRIPTION:
--

DRAWN BY:	JTR	APPROVED BY:	KAK
DATE:	2/29/2016	JOB NO:	2015.0962
DRAWING NAME:	150962_SHEET 2-9.dwg		

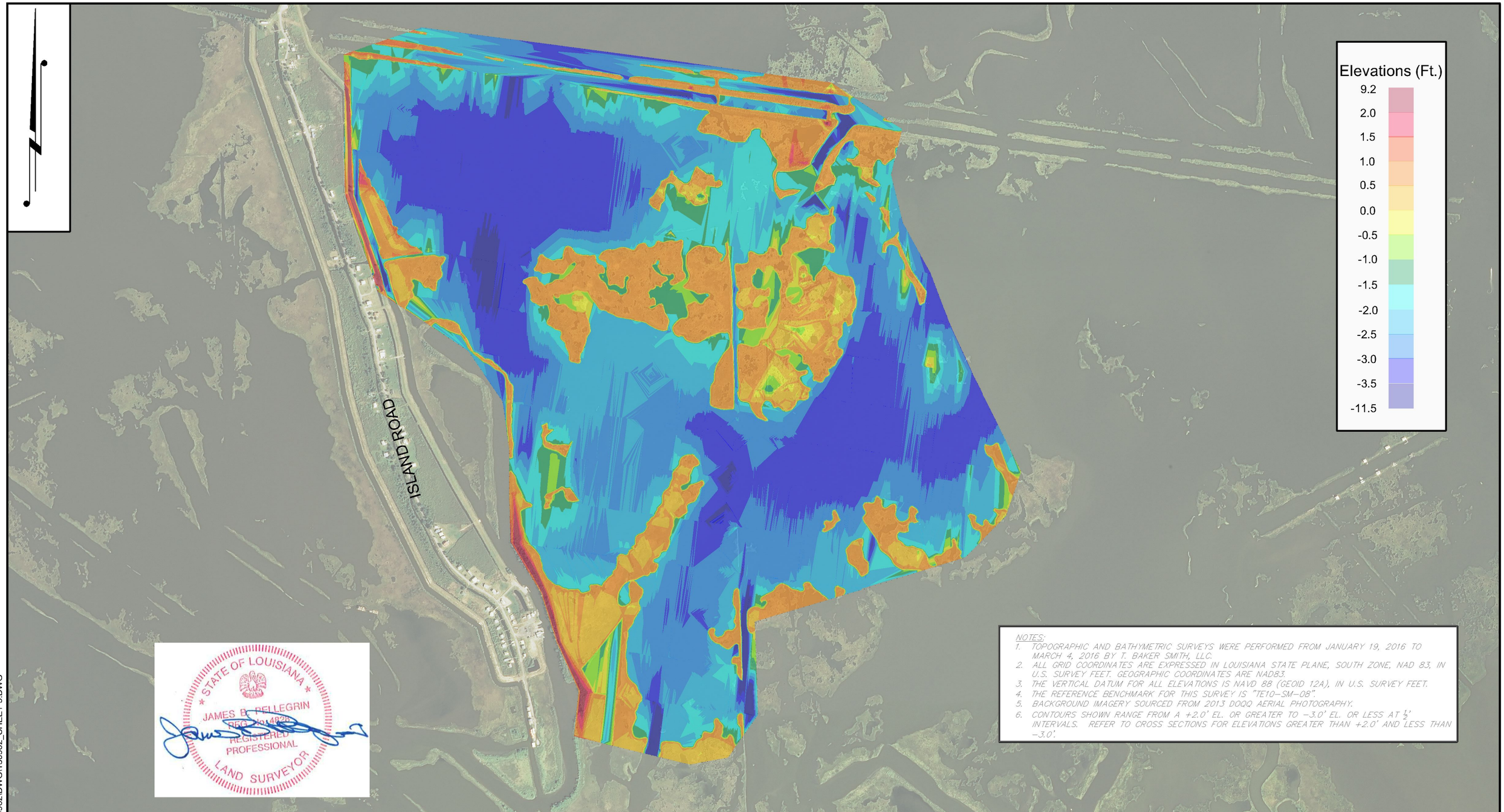
PROJECTION: LOUISIANA SOUTH
GEO. DATUM: NAD83 | VERT. DATUM: NAVD88
GRID UNITS: US SURVEY FEET

SHEET NO: 2 OF 29

Cross-Section Plan View Overview

Island Road Marsh Creation and Nourishment Project (TE-117)
For
Coastal Protection and Restoration Authority
of Louisiana
Terrebonne Parish,
Louisiana

4/28/2016 - P:\Y-2015\2015.0962\DWG\150962_SHEET 2-9.DWG



NOTES:
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4. THE REFERENCE BENCHMARK FOR THIS SURVEY IS "TE10-SM-08".
5. BACKGROUND IMAGERY SOURCED FROM 2013 DOQQ AERIAL PHOTOGRAPHY.
6. CONTOURS SHOWN RANGE FROM A +2.0' EL. OR GREATER TO -3.0' EL. OR LESS AT ½' INTERVALS. REFER TO CROSS SECTIONS FOR ELEVATIONS GREATER THAN +2.0' AND LESS THAN -3.0'.

STATE OF LOUISIANA
JAMES B. PELLEGRIN
REG. No. 4829
REGISTERED PROFESSIONAL LAND SURVEYOR

NOTES:

CPRA

TBS
T. BAKER SMITH
SOLUTIONS START HERE
412 South Van Ave, Houma, LA 70363
(985)868-1050 - tbsmith.com

SCALE IN FEET
1000' 500' 0' 1000'

REV. NO:	00	REV. DATE:	--/--/--	REV. BY:	---

REVISION DESCRIPTION:
--

DRAWN BY:	JTR	APPROVED BY:	KAK
DATE:	4/7/2016	JOB NO:	2015.0962
DRAWING NAME:	150962_SHEET 3.dwg		

PROJECTION: LOUISIANA SOUTH
GEO. DATUM: NAD83 | VERT. DATUM: NAVD88
GRID UNITS: US SURVEY FEET

SHEET NO: 3 OF 29

Contour Map

Island Road Marsh Creation and Nourishment Project (TE-117))
For
Coastal Protection and Restoration Authority
of Louisiana
Terrebonne Parish,
Louisiana

4/28/2016 - P:\Y-2015\2015.0962\DWG\150962_SHEET 3.DWG

HORIZONTAL SCALE: 1" = 500'
500' 250' 0' 500'
VERTICAL SCALE: 1" = 20'
10' 5' 0' 10'

LEGEND

- T. BAKER SMITH, LLC SURVEY (1/19/16 - 3/4/16)
- WATER SURFACE

NOTES

1. ALL PROFILES SHOWN LOOKING WESTERLY.
2. ALL GRID COORDINATES ARE EXPRESSED IN LOUISIANA STATE PLANE, SOUTH ZONE, NAD83, IN U.S. SURVEY FEET.
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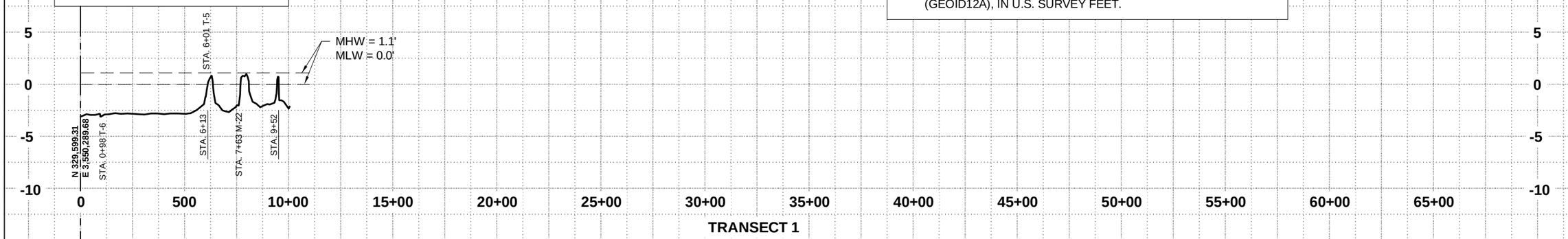
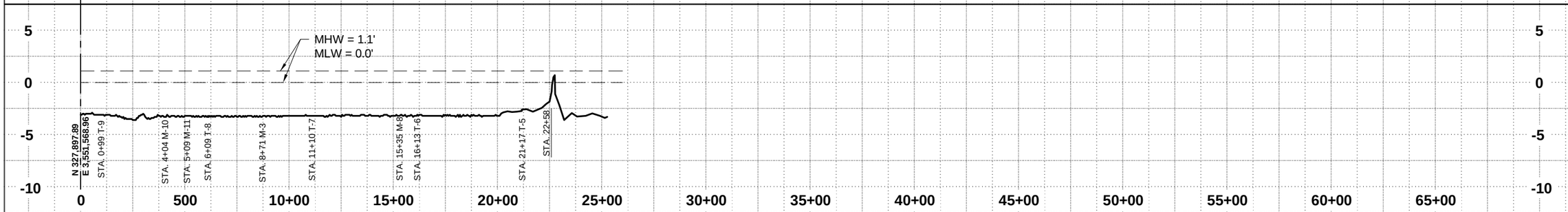


TRANSECT 1



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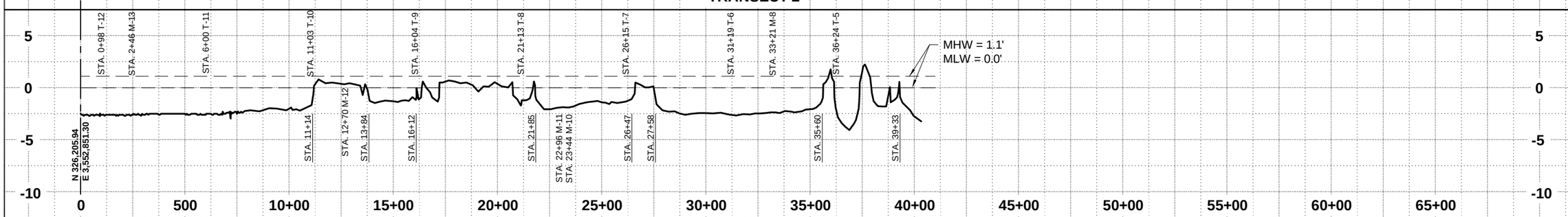

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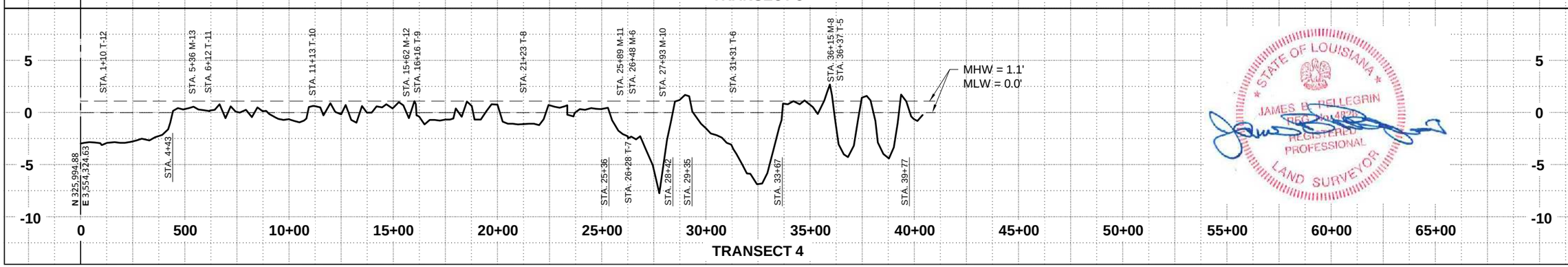

TRANSECT 4

STATE OF LOUISIANA
JAMES B. BELLEGRIN
REGISTERED PROFESSIONAL LAND SURVEYOR

CROSS SECTIONS
TRANSECTS 1, 2, 3 & 4

DATE: 2/29/2016

SHEET 4 OF 29

ISLAND ROAD MARSH CREATION AND NOURISHMENT PROJECT
TERREBONNE PARISH, LOUISIANA

STATE PROJECT NUMBER: TE-117

FEDERAL PROJECT NUMBER:

APPROVED BY: KAK

COASTAL PROTECTION AND RESTORATION AUTHORITY
450 LAUREL ST., SUITE 1501
BATON ROUGE, LOUISIANA 70801

DRAWN BY: JTR

DESIGNED BY:

REV.	DATE	DESCRIPTION	BY

T. BAKER SMITH
SOLUTIONS START HERE
112 South Van Ave. Houma, LA 70363
(985)868-1060 · tbsmith.com

HORIZONTAL SCALE: 1" = 500'
500' 250' 0' 500'
VERTICAL SCALE: 1" = 20'
10' 5' 0' 10'

LEGEND

- T. BAKER SMITH, LLC SURVEY (1/19/16 - 3/4/16)
- WATER SURFACE

NOTES

1. ALL PROFILES SHOWN LOOKING NORTHERLY.
2. ALL GRID COORDINATES ARE EXPRESSED IN LOUISIANA STATE PLANE, SOUTH ZONE, NAD83, IN U.S. SURVEY FEET.
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STATE OF LOUISIANA
JAMES D. LEGNON
REGISTERED PROFESSIONAL LAND SURVEYOR

CROSS SECTIONS
TRANSECTS 5, 6, 7 & 8

DATE: 2/29/2016

SHEET 5 OF 29

ISLAND ROAD MARSH CREATION AND NOURISHMENT PROJECT
TERREBONNE PARISH, LOUISIANA

STATE PROJECT NUMBER: TE-117

FEDERAL PROJECT NUMBER:

APPROVED BY: KAK

COASTAL PROTECTION AND RESTORATION AUTHORITY
450 LAUREL ST., SUITE 1501
BATON ROUGE, LOUISIANA 70801

DRAWN BY: JTR

DESIGNED BY:

REV.	DATE	DESCRIPTION	BY

T. BAKER SMITH
SOLUTIONS START HERE
112 South Van Avenue, Houma, LA 70363
(985) 868-1050 tbsmith.com

HORIZONTAL SCALE: 1" = 500'
500' 250' 0' 500'
VERTICAL SCALE: 1" = 20'
10' 5' 0' 10'

LEGEND

- T. BAKER SMITH, LLC SURVEY (1/19/16 - 3/4/16)
- WATER SURFACE

NOTES

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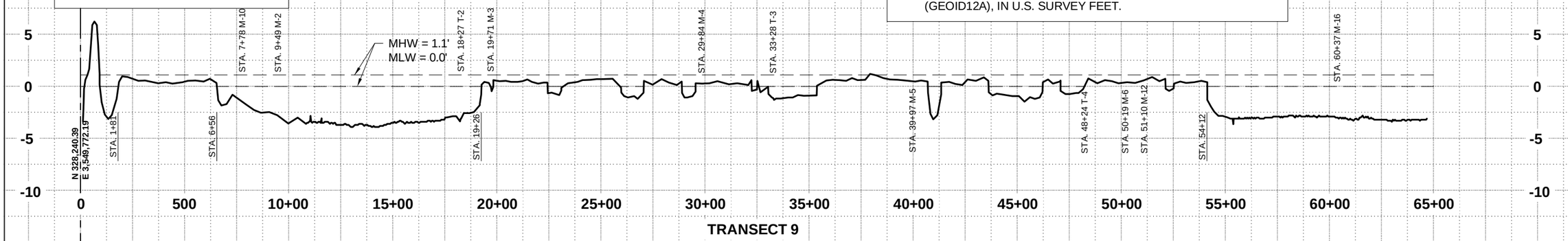

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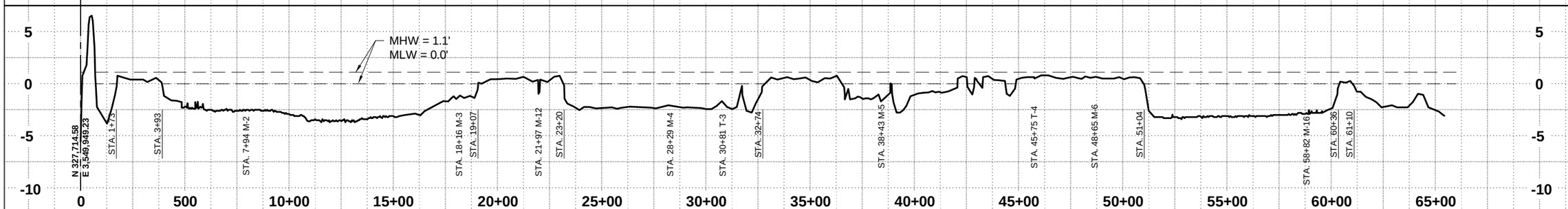

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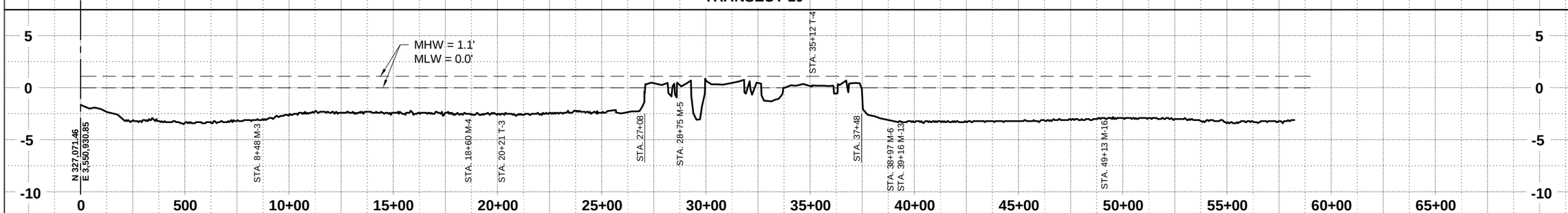
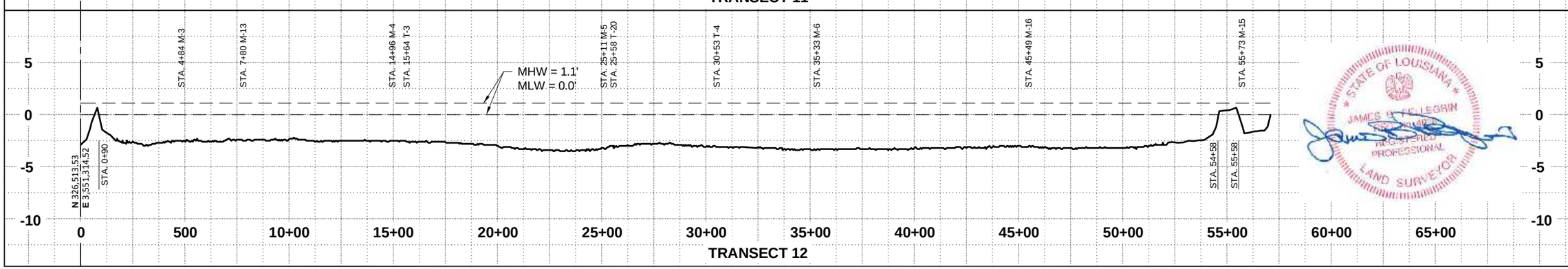


TRANSECT 11



TRANSECT 12

STATE OF LOUISIANA
JAMES D. LE LEGRIN
REGISTERED PROFESSIONAL LAND SURVEYOR

CROSS SECTIONS
TRANSECTS 9, 10, 11 & 12

DATE: 2/29/2016

SHEET 6 OF 29

ISLAND ROAD MARSH CREATION AND NOURISHMENT PROJECT
TERREBONNE PARISH, LOUISIANA

STATE PROJECT NUMBER: TE-117

FEDERAL PROJECT NUMBER:

APPROVED BY: KAK

COASTAL PROTECTION AND RESTORATION AUTHORITY
450 LAUREL ST., SUITE 1501
BATON ROUGE, LOUISIANA 70801

DRAWN BY: JTR

DESIGNED BY:

REV.	DATE	DESCRIPTION	BY

T. BAKER SMITH
SOLUTIONS START HERE
112 South Van Avenue, Houma, LA 70363
(985) 868-1060 · tbsmith.com

HORIZONTAL SCALE: 1" = 500'
500' 250' 0' 500'
VERTICAL SCALE: 1" = 20'
10' 5' 0' 10'

LEGEND

- T. BAKER SMITH, LLC SURVEY (1/19/16 - 3/4/16)
- WATER SURFACE

NOTES

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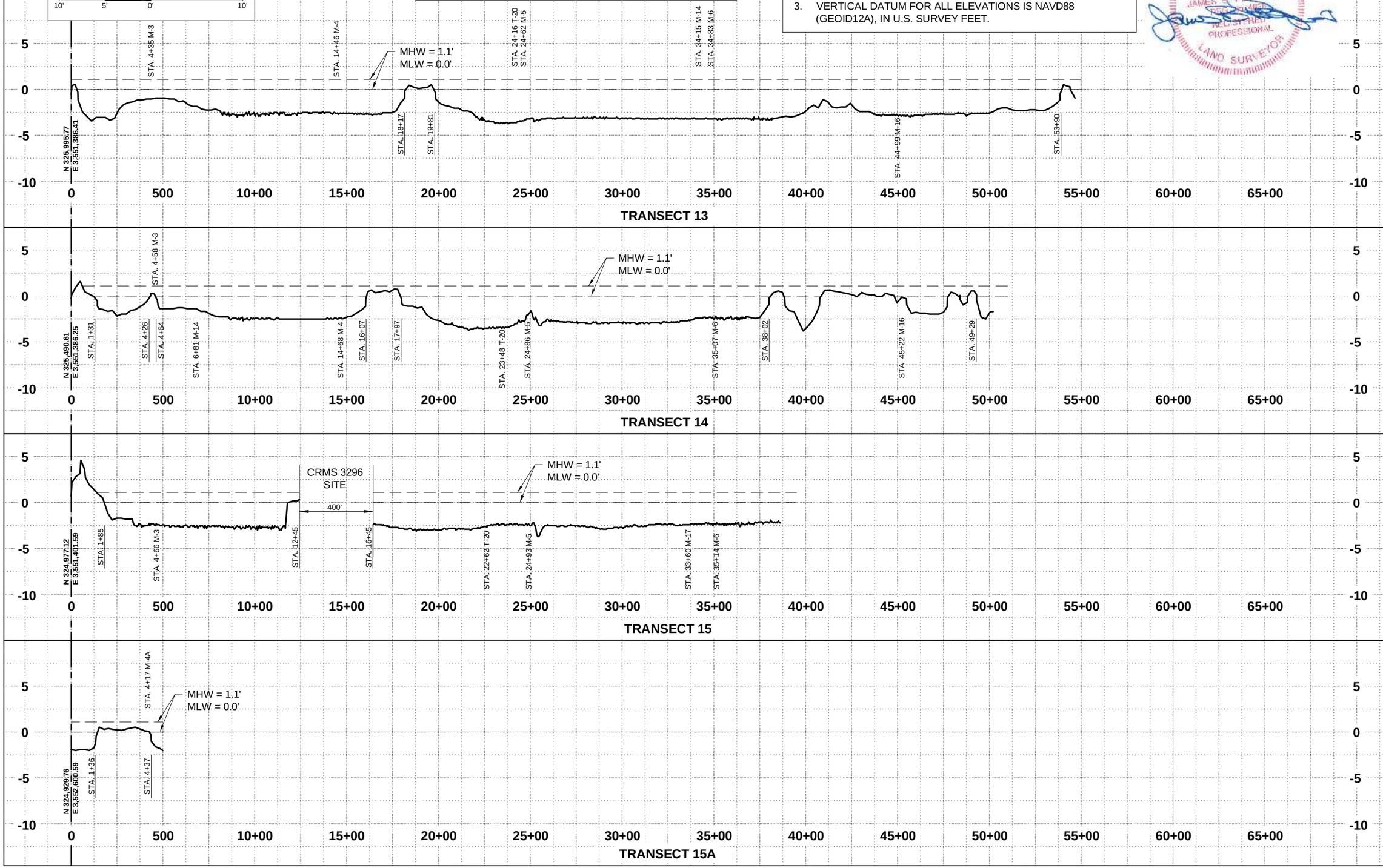
STATE OF LOUISIANA
JAMES D. LEGNON
REGISTERED PROFESSIONAL LAND SURVEYOR



CROSS SECTIONS
TRANSECTS 13, 14, 15 & 15A

DATE: 2/29/2016

SHEET 7 OF 29

ISLAND ROAD MARSH CREATION AND NOURISHMENT PROJECT
TERREBONNE PARISH, LOUISIANA

STATE PROJECT NUMBER: TE-117

FEDERAL PROJECT NUMBER:

APPROVED BY: KAK

COASTAL PROTECTION AND RESTORATION AUTHORITY
450 LAUREL ST., SUITE 1501
BATON ROUGE, LOUISIANA 70801

DRAWN BY: JTR

DESIGNED BY:

REV.	DATE	DESCRIPTION	BY

T. BAKER SMITH
SOLUTIONS START HERE
112 South Van Avenue, Houma, LA 70363
(985) 868-1050 tbsmith.com

HORIZONTAL SCALE: 1" = 500'
500' 250' 0' 500'
VERTICAL SCALE: 1" = 20'
10' 5' 0' 10'

LEGEND

- T. BAKER SMITH, LLC SURVEY (1/19/16 - 3/4/16)
- WATER SURFACE

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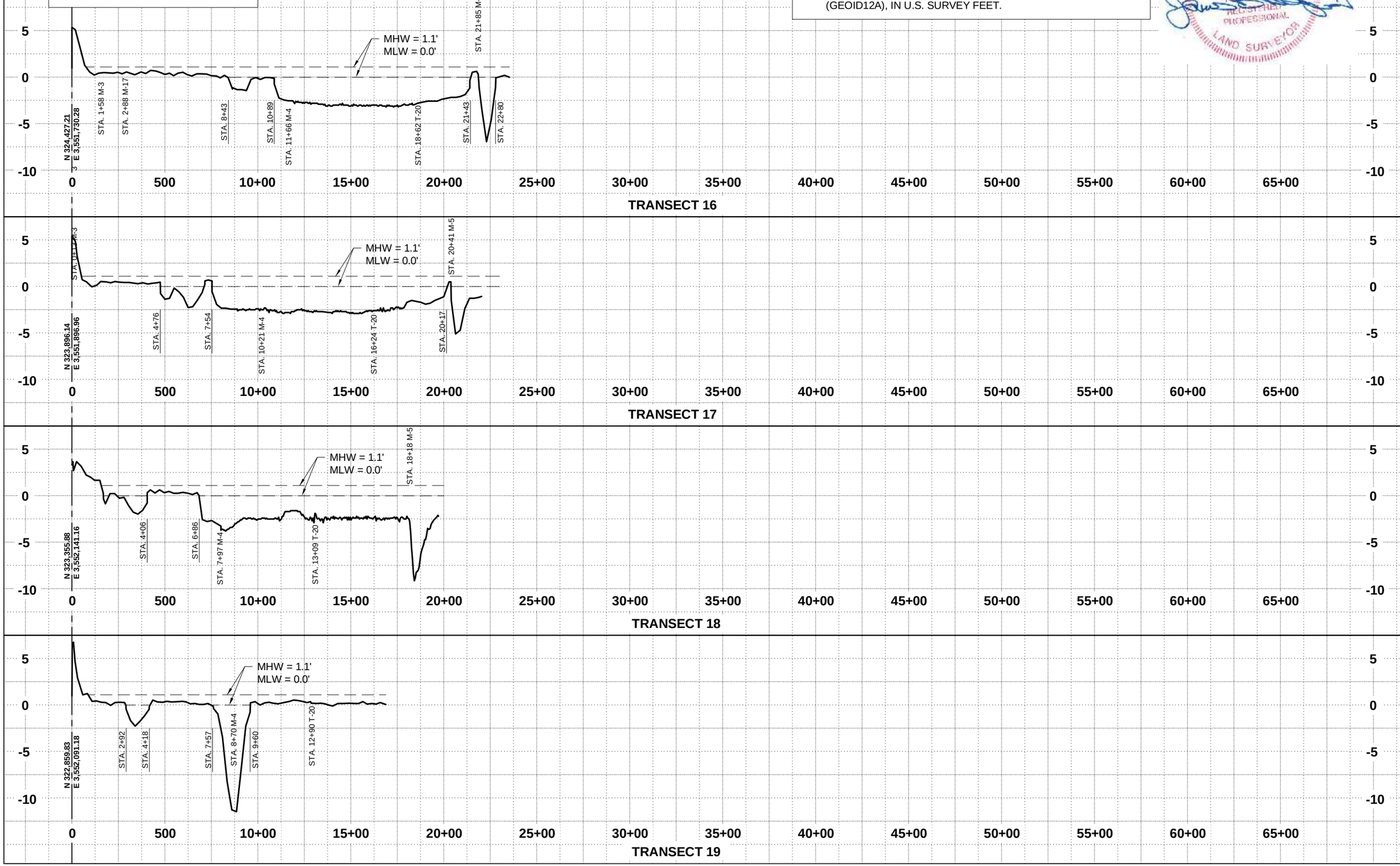
STATE OF LOUISIANA
JAMES A. LEGIN
REGISTERED PROFESSIONAL LAND SURVEYOR



CROSS SECTIONS
TRANSECTS 16, 17, 18 & 19

DATE: 2/29/2016

SHEET 8 OF 29

ISLAND ROAD MARSH CREATION AND NOURISHMENT PROJECT
TERREBONNE PARISH, LOUISIANA

STATE PROJECT NUMBER: TE-117

FEDERAL PROJECT NUMBER:

APPROVED BY: KAK

COASTAL PROTECTION AND RESTORATION AUTHORITY
450 LAUREL ST., SUITE 1501
BATON ROUGE, LOUISIANA 70801

DRAWN BY: JTR

DESIGNED BY:

REV.	DATE	DESCRIPTION	BY

T. BAKER SMITH
SOLUTIONS START HERE
112 South Van Avenue, Houma, LA 70363
(985) 868-1050 tbsmith.com

HORIZONTAL SCALE: 1" = 500'

500' 250' 0' 500'

VERTICAL SCALE: 1" = 20'

10' 5' 0' 10'

LEGEND

- T. BAKER SMITH, LLC SURVEY (1/19/16 - 3/4/16)
- WATER SURFACE

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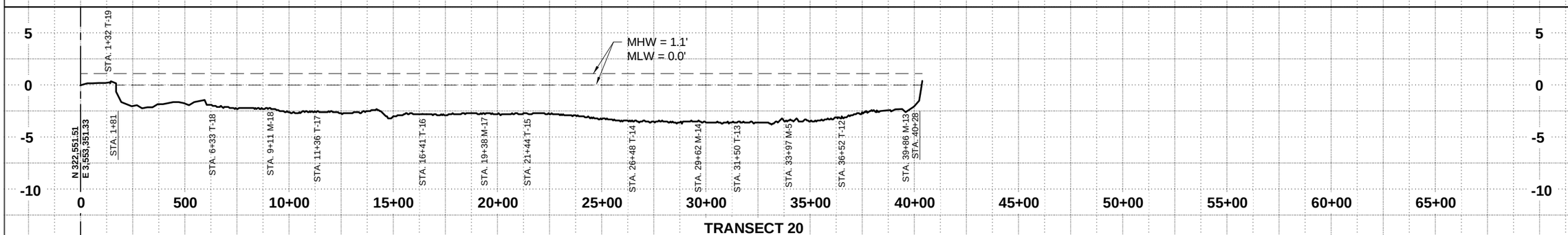
STATE OF LOUISIANA
JAMES D. BELLEGRIN
REGISTERED PROFESSIONAL LAND SURVEYOR



CROSS SECTIONS
TRANSECT 20

DATE: 2/29/2016

SHEET 9 OF 29

ISLAND ROAD MARSH CREATION AND NOURISHMENT PROJECT
TERREBONNE PARISH, LOUISIANA

STATE PROJECT NUMBER: TE-117

FEDERAL PROJECT NUMBER:

APPROVED BY: KAK

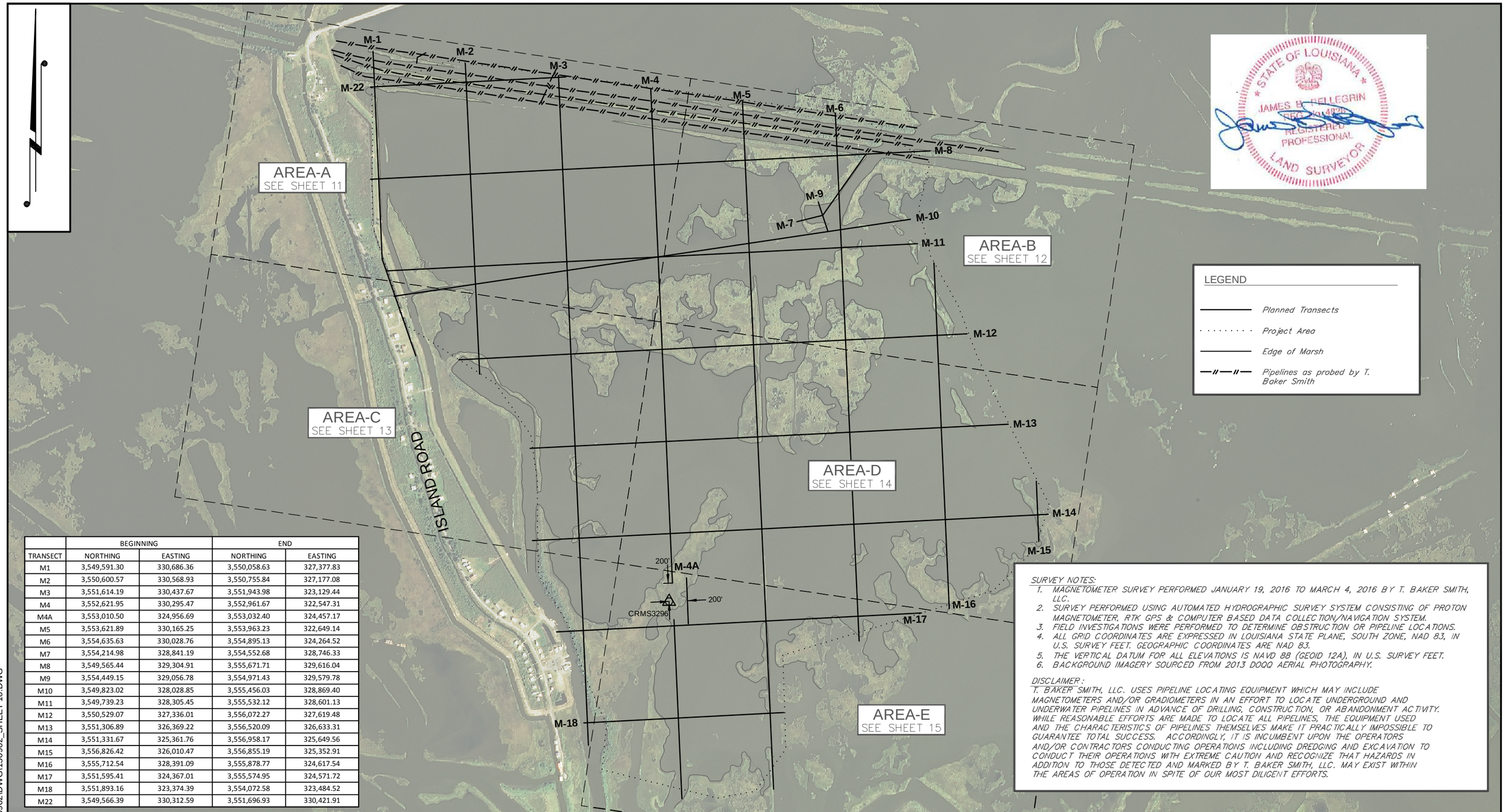
COASTAL PROTECTION AND RESTORATION AUTHORITY
450 LAUREL ST., SUITE 1501
BATON ROUGE, LOUISIANA 70801

DRAWN BY: JTR

DESIGNED BY:

REV.	DATE	DESCRIPTION	BY

T. BAKER SMITH
SOLUTIONS START HERE
112 South Van Ave., Houma, LA 70363
(985) 868-1050 tbsmith.com



	BEGINNING		END	
TRANSECT	NORTHING	EASTING	NORTHING	EASTING
M1	3,549,591.30	330,686.36	3,550,058.63	327,377.83
M2	3,550,600.57	330,568.93	3,550,755.84	327,177.08
M3	3,551,614.19	330,437.67	3,551,943.98	323,129.44
M4	3,552,621.95	330,295.47	3,552,961.67	322,547.31
M4A	3,553,010.50	324,956.69	3,553,032.40	324,457.17
M5	3,553,621.89	330,165.25	3,553,963.23	322,649.14
M6	3,554,635.63	330,028.76	3,554,895.13	324,264.52
M7	3,554,214.98	328,841.19	3,554,552.68	328,746.33
M8	3,549,565.44	329,304.91	3,555,671.71	329,616.04
M9	3,554,449.15	329,056.78	3,554,971.43	329,579.78
M10	3,549,823.02	328,028.85	3,555,456.03	328,869.40
M11	3,549,739.23	328,305.45	3,555,532.12	328,601.13
M12	3,550,529.07	327,336.01	3,556,072.27	327,619.48
M13	3,551,306.89	326,369.22	3,556,520.09	326,633.31
M14	3,551,331.67	325,361.76	3,556,958.17	325,649.56
M15	3,556,826.42	326,010.47	3,556,855.19	325,352.91
M16	3,555,712.54	328,391.09	3,555,878.77	324,617.54
M17	3,551,595.41	324,367.01	3,555,574.95	324,571.72
M18	3,551,893.16	323,374.39	3,554,072.58	323,484.52
M22	3,549,566.39	330,312.59	3,551,696.93	330,421.91

SURVEY NOTES:

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NOTES:

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SCALE IN FEET
1000' 500' 0' 1000'

REV. NO:	00	REV. DATE:	--/--/--	REV. BY:	---

REVISION DESCRIPTION:
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DRAWN BY:	JTR	APPROVED BY:	KAK
DATE:	2/29/2016	JOB NO:	2015.0962
DRAWING NAME:	150962_SHEET 10.dwg		

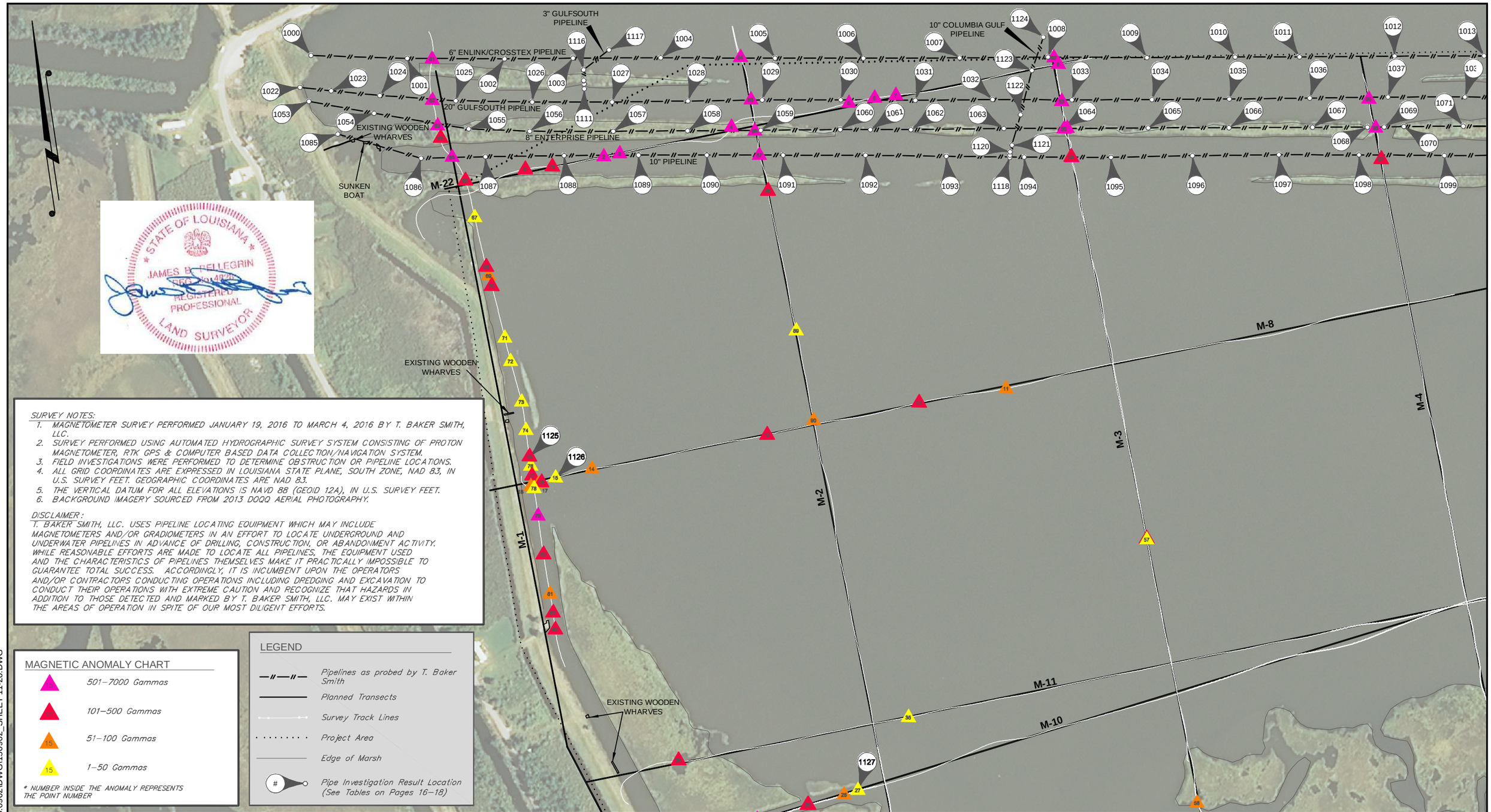
PROJECTION: LOUISIANA SOUTH
GEO. DATUM: NAD83 | VERT. DATUM: NAVD88
GRID UNITS: US SURVEY FEET

SHEET NO: 10 OF 29

Magnetometer Plan View Overview

Island Road Marsh Creation and Nourishment Project (TE-117)
For
Coastal Protection and Restoration Authority
of Louisiana
Terrebonne Parish,
Louisiana

4/28/2016 - P:\Y-2015\2015.0962\DWG\150962_SHEET 10.DWG



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MAGNETIC ANOMALY CHART

- 501–7000 Gammas
- 101–500 Gammas
- 51–100 Gammas
- 1–50 Gammas

* NUMBER INSIDE THE ANOMALY REPRESENTS THE POINT NUMBER

LEGEND

- Pipelines as probed by T. Baker Smith
- Planned Transects
- Survey Track Lines
- Project Area
- Edge of Marsh
- Pipe Investigation Result Location (See Tables on Pages 16–18)

NOTES:

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SCALE IN FEET
300' 150' 0' 300'

REV. NO:	REV. DATE:	REV. BY:
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REVISION DESCRIPTION:
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DRAWN BY:	JTR	APPROVED BY:	KAK
DATE:	2/29/2016	JOB NO:	2015.0962
DRAWING NAME:	150962_SHEET 11-20.dwg		

PROJECTION: LOUISIANA SOUTH
GEO. DATUM: NAD83 | VERT. DATUM: NAVD88
GRID UNITS: US SURVEY FEET

SHEET NO: 11 OF 29

Magnetometer Plan View Area-A

Island Road Marsh Creation and Nourishment Project (TE-117)
For
Coastal Protection and Restoration Authority
of Louisiana
Terrebonne Parish,
Louisiana

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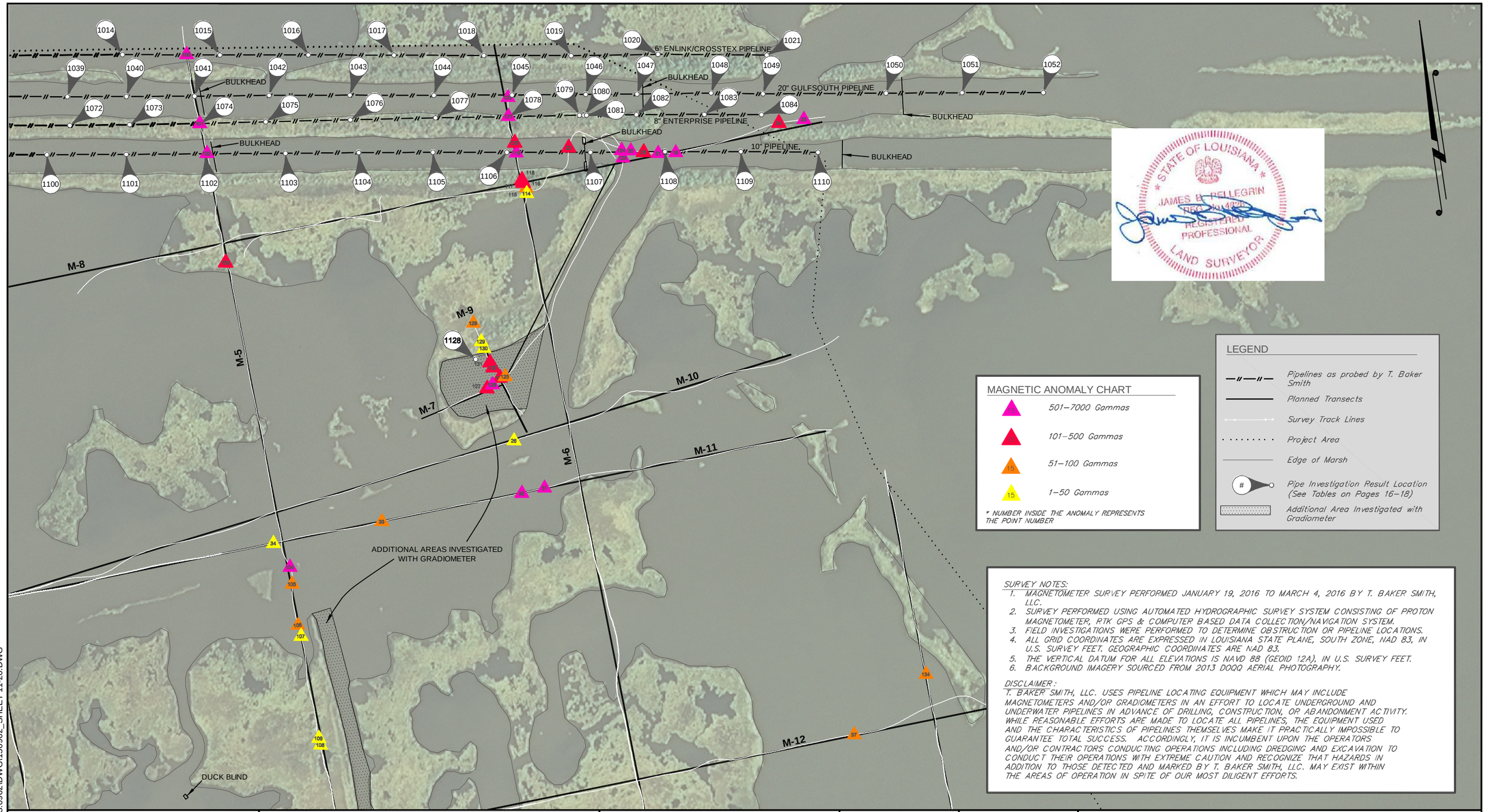

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SCALE IN FEET
300' 150' 0' 300'

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REVISION DESCRIPTION:
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DRAWN BY:	JTR	APPROVED BY:	KAK
DATE:	2/29/2016	JOB NO:	2015.0962
DRAWING NAME:	150962_SHEET 11-20.dwg		

PROJECTION: LOUISIANA SOUTH
GEO. DATUM: NAD83 | VERT. DATUM: NAVD88
GRID UNITS: US SURVEY FEET

SHEET NO: 12 OF 29

Magnetometer Plan View Area-B

Island Road Marsh Creation and Nourishment Project (TE-117)
For
Coastal Protection and Restoration Authority
of Louisiana
Terrebonne Parish,
Louisiana

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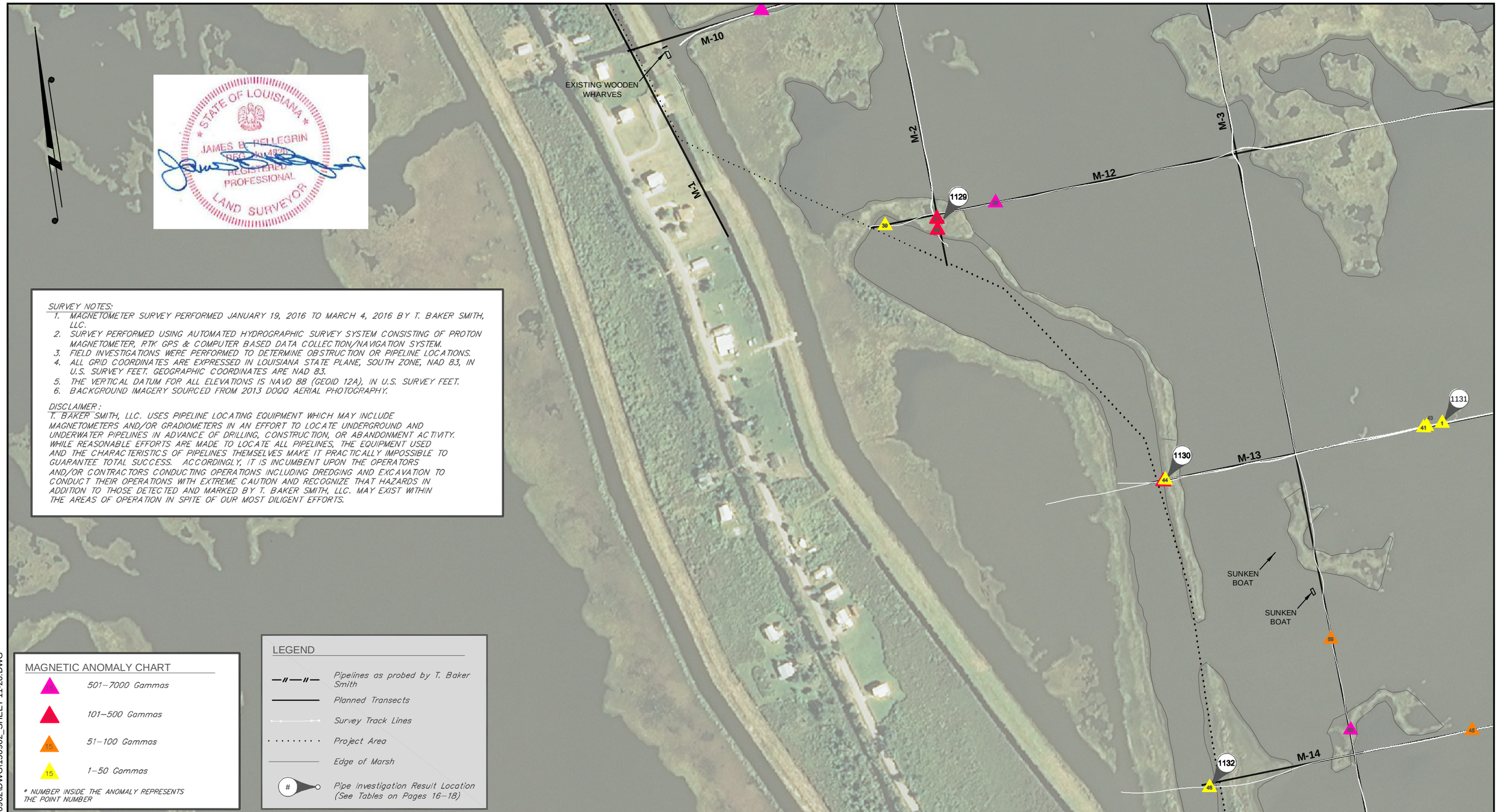

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LEGEND

- Pipelines as probed by T. Baker Smith
- Planned Transects
- Survey Track Lines
- Project Area
- Edge of Marsh
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NOTES:

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SCALE IN FEET
300' 150' 0' 300'

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REVISION DESCRIPTION:
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DATE:	2/29/2016	JOB NO:	2015.0962
DRAWING NAME:	150962_SHEET 11-20.dwg		

PROJECTION: LOUISIANA SOUTH
GEO. DATUM: NAD83 | VERT. DATUM: NAVD88
GRID UNITS: US SURVEY FEET

SHEET NO: 13 OF 29

Magnetometer Plan View Area-C

Island Road Marsh Creation and Nourishment Project (TE-117)
For
Coastal Protection and Restoration Authority
of Louisiana
Terrebonne Parish,
Louisiana

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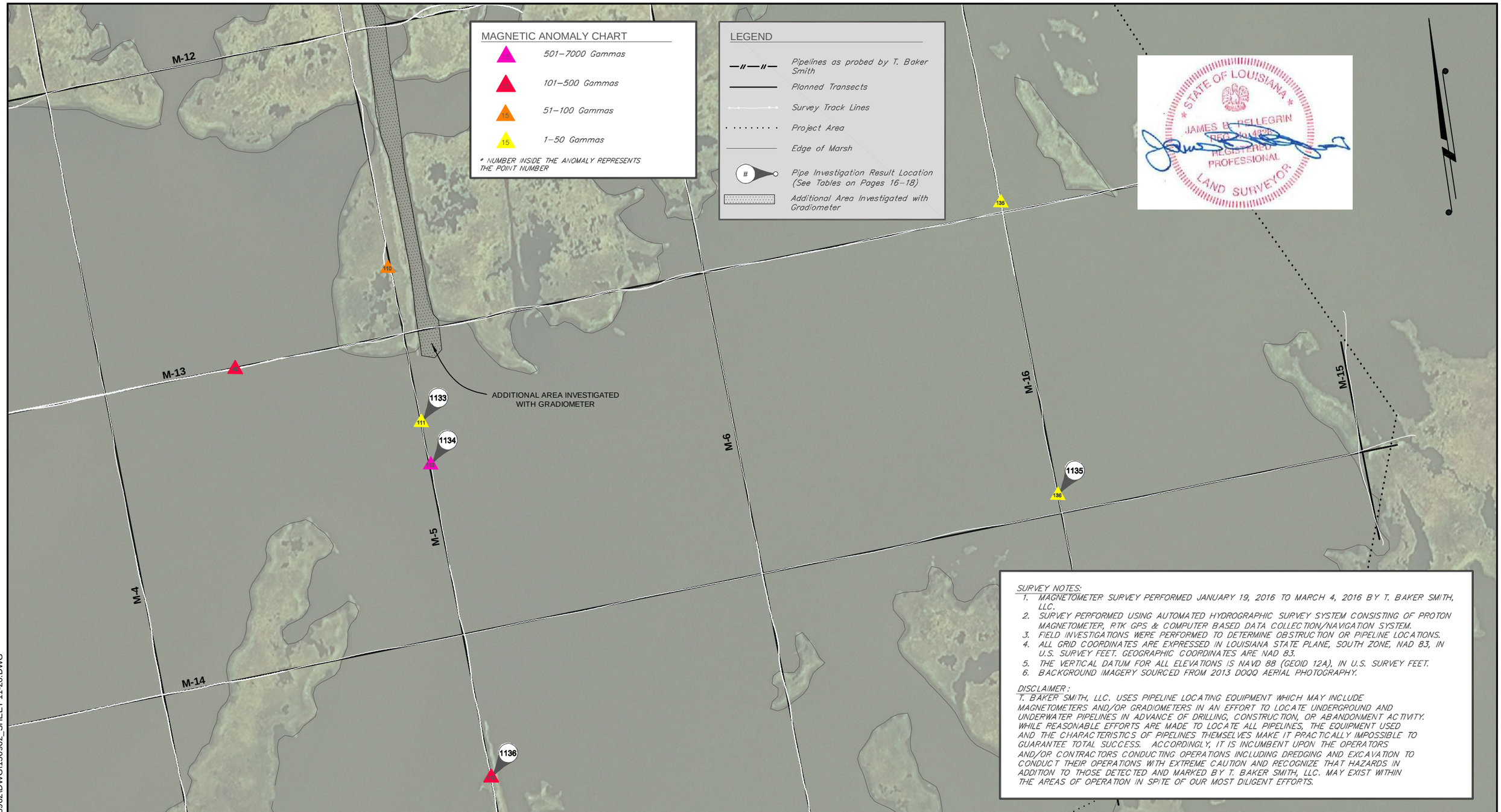

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SCALE IN FEET
300' 150' 0' 300'

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REVISION DESCRIPTION:
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DATE:	2/29/2016	JOB NO:	2015.0962
DRAWING NAME:	150962_SHEET 11-20.dwg		

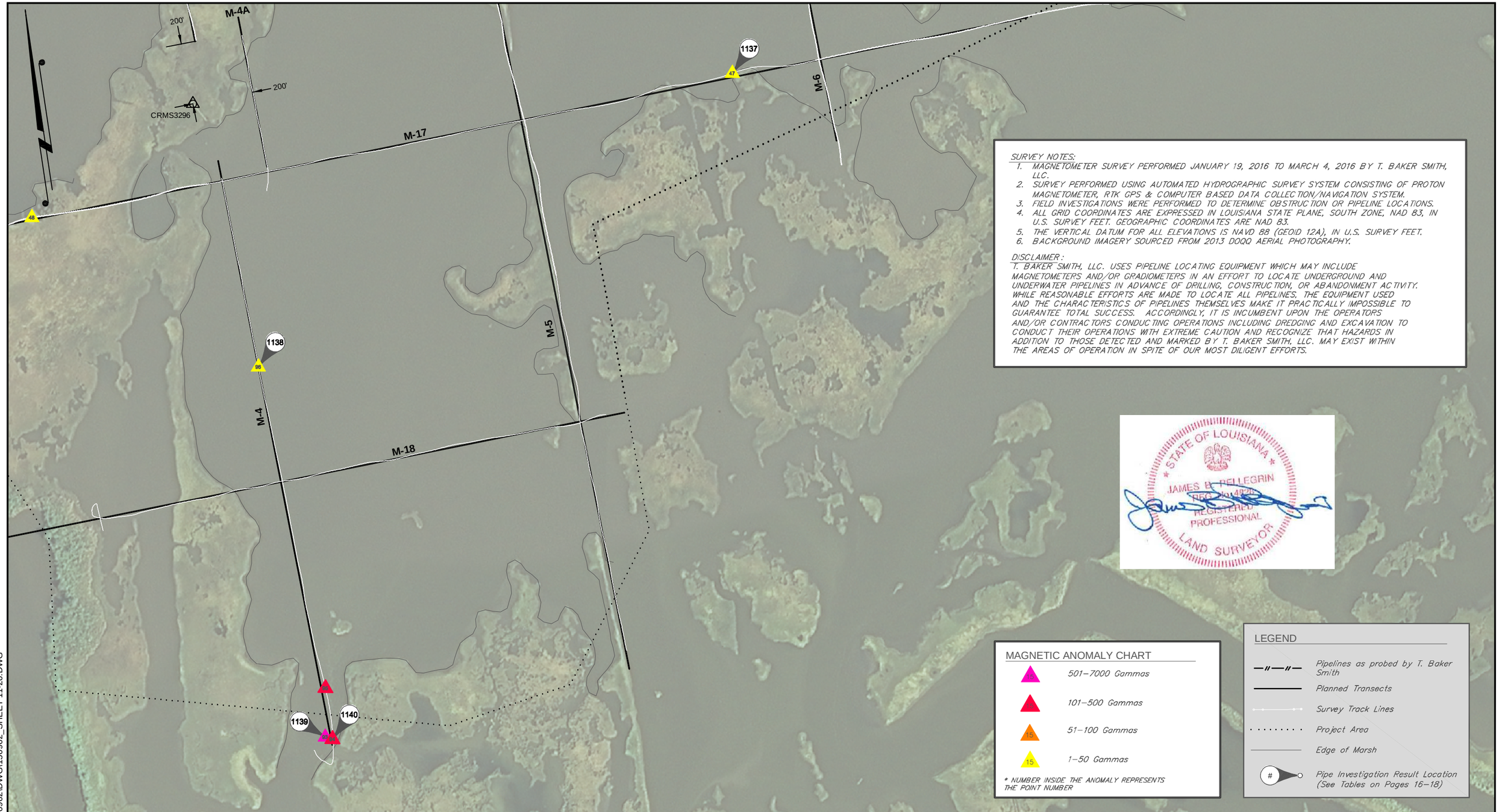
PROJECTION: LOUISIANA SOUTH
GEO. DATUM: NAD83 | VERT. DATUM: NAVD88
GRID UNITS: US SURVEY FEET

SHEET NO: 14 OF 29

Magnetometer Plan View Area-D

Island Road Marsh Creation and Nourishment Project (TE-117)
For
Coastal Protection and Restoration Authority
of Louisiana
Terrebonne Parish,
Louisiana

4/28/2016 - P:\Y-2015\2015.0962\DWG\150962_SHEET 11-20.DWG



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STATE OF LOUISIANA
JAMES B. PELLEGRIN
REGISTERED PROFESSIONAL LAND SURVEYOR

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300' 150' 0' 300'

REV. NO:	00	REV. DATE:	--/--/--	REV. BY:	---

REVISION DESCRIPTION:
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DATE:	2/29/2016	JOB NO:	2015.0962
DRAWING NAME:	150962_SHEET 11-20.dwg		

PROJECTION: LOUISIANA SOUTH
GEO. DATUM: NAD83 | VERT. DATUM: NAVD88
GRID UNITS: US SURVEY FEET

SHEET NO: 15 OF 29

Magnetometer Plan View Area-E

Island Road Marsh Creation and Nourishment Project (TE-117)
For
Coastal Protection and Restoration Authority
of Louisiana
Terrebonne Parish,
Louisiana

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STATE OF LOUISIANA
JAMES B. PELLEGRIN
REG. No. 14820
REGISTERED PROFESSIONAL LAND SURVEYOR

Magnetic Anomaly Table

Point No.	Coordinates (NAD83) Easting	Coordinates (NAD83) Northing	Coordinates (NAD83) Latitude	Coordinates (NAD83) Longitude	GAMMAS (nT)
1	3,552,289.00	326,421.00	29° 23' 41.2878"	90° 28' 51.2555"	13
2	3,550,101.00	330,339.00	29° 24' 20.2342"	90° 29' 15.6626"	3058
3	3,550,154.00	330,341.00	29° 24' 20.2501"	90° 29' 15.0632"	952
4	3,550,532.00	330,373.00	29° 24' 20.5393"	90° 29' 10.7870"	4358
5	3,550,928.00	330,394.00	29° 24' 20.7181"	90° 29' 06.3083"	3070
6	3,551,014.00	330,398.00	29° 24' 20.7514"	90° 29' 05.3356"	1168
7	3,551,085.00	330,396.00	29° 24' 20.7264"	90° 29' 04.5331"	2671
8	3,551,631.00	330,418.00	29° 24' 20.9041"	90° 28' 58.3584"	958
9	3,549,838.00	330,336.00	29° 24' 20.2237"	90° 29' 18.6362"	309
10	3,549,928.00	330,332.00	29° 24' 20.1775"	90° 29' 17.6190"	361
11	3,551,301.00	329,384.00	29° 24' 10.6924"	90° 29' 02.1759"	84
12	3,551,010.00	329,381.00	29° 24' 10.6840"	90° 29' 05.4660"	199
13	3,550,498.00	329,350.00	29° 24' 10.4146"	90° 29' 11.2569"	227
14	3,549,909.00	329,325.00	29° 24' 10.2102"	90° 29' 17.9178"	52
15	3,549,786.00	329,314.00	29° 24' 10.1103"	90° 29' 19.3092"	33
16	3,549,738.00	329,306.00	29° 24' 10.0346"	90° 29' 19.8526"	101
17	3,549,727.00	329,303.00	29° 24' 10.0057"	90° 29' 19.9772"	100
18	3,549,701.00	329,298.00	29° 24' 09.9581"	90° 29' 20.2715"	53
19	3,555,178.00	329,588.00	29° 24' 12.4253"	90° 28' 18.3280"	5568
20	3,555,032.00	329,616.00	29° 24' 12.7134"	90° 28' 19.9762"	6071
21	3,555,120.00	329,594.00	29° 24' 12.4890"	90° 28' 18.9832"	870
22	3,554,830.00	329,657.00	29° 24' 13.1343"	90° 28' 22.2564"	464
23	3,555,615.00	329,634.00	29° 24' 12.8481"	90° 28' 13.3837"	531
24	3,555,531.00	329,634.00	29° 24' 12.8544"	90° 28' 14.3334"	276
25	3,555,073.00	329,605.00	29° 24' 12.6014"	90° 28' 19.5137"	312
26	3,554,506.00	328,723.00	29° 24' 03.9123"	90° 28' 25.9986"	36
27	3,550,620.00	328,145.00	29° 23' 58.4769"	90° 29' 09.9784"	41
28	3,550,573.00	328,137.00	29° 23' 58.4012"	90° 29' 10.5104"	89
29	3,550,450.00	328,122.00	29° 23' 58.2617"	90° 29' 11.9021"	363
30	3,550,277.00	328,097.00	29° 23' 58.0269"	90° 29' 13.8600"	670
31	3,554,583.00	328,553.00	29° 24' 02.2237"	90° 28' 25.1425"	1357
32	3,554,506.00	328,547.00	29° 24' 02.1700"	90° 28' 26.0135"	702
33	3,554,033.00	328,523.00	29° 24' 01.9675"	90° 28' 31.3628"	97
34	3,553,667.00	328,505.00	29° 24' 01.8164"	90° 28' 35.5019"	47

Magnetic Anomaly Table

Point No.	Coordinates (NAD83) Easting	Coordinates (NAD83) Northing	Coordinates (NAD83) Latitude	Coordinates (NAD83) Longitude	GAMMAS (nT)
35	3,550,821.00	328,358.00	29° 24' 00.5708"	90° 29' 07.6883"	49
36	3,550,049.00	328,331.00	29° 24' 00.3600"	90° 29' 16.4180"	148
37	3,555,477.00	327,592.00	29° 23' 52.6439"	90° 28' 15.1176"	61
38	3,550,944.00	327,356.00	29° 23' 50.6426"	90° 29' 06.3816"	571
39	3,550,574.00	327,336.00	29° 23' 50.4717"	90° 29' 10.5660"	41
40	3,553,225.00	326,462.00	29° 23' 41.6247"	90° 28' 40.6712"	106
41	3,552,226.00	326,416.00	29° 23' 41.2430"	90° 28' 51.9681"	20
42	3,551,354.00	326,368.00	29° 23' 40.8319"	90° 29' 01.8295"	171
43	3,552,237.00	326,419.00	29° 23' 41.2719"	90° 28' 51.8435"	19
44	3,551,361.00	326,372.00	29° 23' 40.8710"	90° 29' 01.7500"	49
45	3,552,236.00	325,408.00	29° 23' 31.2636"	90° 28' 51.9398"	58
46	3,551,355.00	325,350.00	29° 23' 30.7542"	90° 29' 01.9035"	40
47	3,554,589.00	324,534.00	29° 23' 22.4376"	90° 28' 25.4155"	31
48	3,552,243.00	324,407.00	29° 23' 21.3538"	90° 28' 51.9448"	40
49	3,551,687.10	328,824.58	29° 24' 05.1261"	90° 28' 57.8579"	143
50	3,551,617.99	330,203.84	29° 24' 18.7850"	90° 28' 58.5235"	2425
51	3,551,623.83	330,295.12	29° 24' 19.6882"	90° 28' 58.4498"	1928
52	3,551,619.82	330,441.27	29° 24' 21.1353"	90° 28' 58.4829"	2568
53	3,551,623.97	330,294.87	29° 24' 19.6857"	90° 28' 58.4482"	1648
54	3,551,628.02	330,204.52	29° 24' 18.7910"	90° 28' 58.4100"	1742
55	3,551,627.57	330,108.74	29° 24' 17.8429"	90° 28' 58.4231"	389
56	3,551,630.21	330,106.31	29° 24' 17.8187"	90° 28' 58.3935"	504
57	3,551,687.01	328,821.81	29° 24' 05.0987"	90° 28' 57.8591"	15
58	3,551,721.60	327,937.21	29° 23' 56.3391"	90° 28' 57.5423"	53
59	3,551,821.85	325,773.32	29° 23' 34.9106"	90° 28' 56.5907"	67
60	3,551,841.43	325,468.67	29° 23' 31.8933"	90° 28' 56.3949"	752
61	3,549,587.59	330,742.09	29° 24' 24.2620"	90° 29' 21.4334"	1005
62	3,549,568.47	330,607.48	29° 24' 22.9308"	90° 29' 21.6608"	1601
63	3,549,572.90	330,521.90	29° 24' 22.0833"	90° 29' 21.6178"	1343
64	3,549,577.07	330,480.47	29° 24' 21.6729"	90° 29' 21.5741"	319
65	3,549,604.97	330,411.75	29° 24' 20.9906"	90° 29' 21.2644"	843
66	3,549,636.83	330,328.79	29° 24' 20.1670"	90° 29' 20.9111"	113
67	3,549,649.35	330,204.04	29° 24' 18.9311"	90° 29' 20.7800"	41
68	3,549,662.71	330,036.71	29° 24' 17.2737"	90° 29' 20.6429"	147

Magnetic Anomaly Table

Point No.	Coordinates (NAD83) Easting	Coordinates (NAD83) Northing	Coordinates (NAD83) Latitude	Coordinates (NAD83) Longitude	GAMMAS (nT)
69	3,549,666.57	330,006.13	29° 24' 16.9707"	90° 29' 20.6018"	92
70	3,549,671.22	329,971.52	29° 24' 16.6277"	90° 29' 20.5521"	118
71	3,549,688.54	329,795.24	29° 24' 14.8814"	90° 29' 20.3710"	40
72	3,549,695.98	329,716.24	29° 24' 14.0988"	90° 29' 20.2934"	40
73	3,549,711.88	329,578.19	29° 24' 12.7310"	90° 29' 20.1252"	27
74	3,549,711.84	329,483.42	29° 24' 11.7929"	90° 29' 20.1335"	29
75	3,549,710.92	329,395.92	29° 24' 10.9267"	90° 29' 20.1512"	461
76	3,549,710.44	329,364.41	29° 24' 10.6148"	90° 29' 20.1593"	33
77	3,549,709.92	329,332.55	29° 24' 10.2995"	90° 29' 20.1678"	106
78	3,549,710.15	329,289.66	29° 24' 09.8749"	90° 29' 20.1688"	48
79	3,549,710.16	329,198.25	29° 24' 08.9700"	90° 29' 20.1763"	705
80	3,549,708.60	329,069.56	29° 24' 07.6961"	90° 29' 20.2046"	124
81	3,549,711.01	328,937.27	29° 24' 06.3864"	90° 29' 20.1884"	91
82	3,549,711.36	328,874.43	29° 24' 05.7643"	90° 29' 20.1897"	253
83	3,549,710.30	328,818.09	29° 24' 05.2066"	90° 29' 20.2064"	278
84	3,550,596.02	330,596.14	29° 24' 22.7435"	90° 29' 10.0446"	1142
85	3,550,609.42	330,452.83	29° 24' 21.3239"	90° 29' 09.9051"	2003
86	3,550,606.99	330,349.14	29° 24' 20.2976"	90° 29' 09.9412"	1840
87	3,550,610.06	330,267.78	29° 24' 19.4919"	90° 29' 09.9133"	1013
88	3,550,620.58	330,146.92	29° 24' 18.2947"	90° 29' 09.8045"	361
89	3,550,644.01	329,676.24	29° 24' 13.6335"	90° 29' 09.5789"	49
90	3,550,656.91	329,374.71	29° 24' 10.6476"	90° 29' 09.4583"	58
91	3,550,745.91	327,332.56	29° 23' 50.4250"	90° 29' 08.6229"	275
92	3,550,742.32	327,296.75	29° 23' 50.0708"	90° 29' 08.6665"	276
93	3,552,928.80	322,496.81	29° 23' 02.3935"	90° 28' 44.3537"	753
94	3,552,951.03	322,486.20	29° 23' 02.2869"	90° 28' 44.1033"	485
95	3,552,966.84	322,734.70	29° 23' 04.7457"	90° 28' 43.9037"	102
96	3,552,905.90	323,811.38	29° 23' 15.4087"	90° 28' 44.5018"	35
97	3,552,639.13	329,949.43	29° 24' 16.1914"	90° 28' 47.0004"	466
98	3,552,636.43	330,054.48	29° 24' 17.2315"	90° 28' 47.0220"	1401
99	3,552,628.50	330,151.87	29° 24' 18.1962"	90° 28' 47.1035"	1012
100	3,553,622.96	330,150.34	29° 24' 18.1076"	90° 28' 35.8607"	817
101	3,553,632.05	329,917.75	29° 24' 15.8044"	90° 28' 35.7776"	675
102	3,553,640.88	329,815.88	29° 24' 14.7953"	90° 28' 35.6864"	741

Magnetic Anomaly Table

Point No.	Coordinates (NAD83) Easting	Coordinates (NAD83) Northing	Coordinates (NAD83) Latitude	Coordinates (NAD83) Longitude	GAMMAS (nT)
103	3,553,648.60	329,448.62	29° 24' 11.1591"	90° 28' 35.6302"	135
104	3,553,709.80	328,418.65	29° 24' 00.9585"	90° 28' 35.0254"	573
105	3,553,708.19	328,362.05	29° 24' 00.3983"	90° 28' 35.0484"	83
106	3,553,707.09	328,224.58	29° 23' 59.0375"	90° 28' 35.0724"	54
107	3,553,711.52	328,186.86	29° 23' 58.6637"	90° 28' 35.0255"	42
108	3,553,722.23	327,820.82	29° 23' 55.0394"	90° 28' 34.9354"	41
109	3,553,719.65	327,843.32	29° 23' 55.2623"	90° 28' 34.9627"	42
110	3,553,769.24	326,714.70	29° 23' 44.0860"	90° 28' 34.4975"	55
111	3,553,802.77	326,198.15	29° 23' 38.9700"	90° 28' 34.1622"	42
112	3,553,812.57	326,055.96	29° 23' 37.5616"	90° 28' 34.0634"	958
113	3,553,856.49	325,011.45	29° 23' 27.2184"	90° 28' 33.6553"	273
114	3,554,669.83	329,527.55	29° 24' 11.8647"	90° 28' 24.0782"	43
115	3,554,671.03	329,545.47	29° 24' 12.0420"	90° 28' 24.0631"	67
116	3,554,663.61	329,563.23	29° 24' 12.2184"	90° 28' 24.1455"	259
117	3,554,660.95	329,570.92	29° 24' 12.2947"	90° 28' 24.1749"	286
118	3,554,660.38	329,574.38	29° 24' 12.3290"	90° 28' 24.1811"	263
119	3,554,655.41	329,665.33	29° 24' 13.2297"	90° 28' 24.2295"	1640
120	3,554,655.15	329,699.06	29° 24' 13.5636"	90° 28' 24.2296"	257
121	3,554,647.55	329,789.41	29° 24' 14.4586"	90° 28' 24.3079"	1442
122	3,554,655.54	329,851.48	29° 24' 15.0725"	90° 28' 24.2123"	1343
123	3,555,002.51	329,596.74	29° 24' 12.5249"	90° 28' 20.3113"	1189
124	3,555,001.79	329,621.86	29° 24' 12.7736"	90° 28' 20.3173"	667
125	3,554,508.96	328,937.60	29° 24' 06.0365"	90° 28' 25.9469"	59
126	3,554,462.96	328,917.19	29° 24' 05.8379"	90° 28' 26.4687"	694
127	3,554,443.74	328,907.23	29° 24' 05.7407"	90° 28' 26.6868"	191
128	3,554,430.81	329,128.52	29° 24' 07.9323"	90° 28' 26.8142"	61
129	3,554,447.20	329,064.25	29° 24' 07.2948"	90° 28' 26.6344"	43
130	3,554,452.96	329,040.92	29° 24' 07.0635"	90° 28' 26.5712"	44
131	3,554,465.61	328,990.99	29° 24' 06.5682"	90° 28' 26.4325"	216
132	3,554,473.29	328,973.01	29° 24' 06.3897"	90° 28' 26.3472"	454
133	3,554,490.99	328,935.91	29° 24' 06.0211"	90° 28' 26.1502"	281
134	3,555,742.41	327,754.27	29° 23' 54.2305"	90° 28' 12.1034"	51
135	3,555,790.14	326,628.49	29° 23' 43.0824"	90° 28' 11.6597"	36
136	3,555,832.63	325,651.80	29° 23' 33.4105"	90° 28' 11.2626"	21

NOTES:

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REV. NO: 00	REV. DATE: --/--/--	REV. BY: ---

REVISION DESCRIPTION:
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DRAWN BY: JTR	APPROVED BY: KAK
DATE: 2/29/2016	JOB NO: 2015.0962
DRAWING NAME: 150962_SHEET 11-20.dwg	
PROJECTION: LOUISIANA SOUTH GEO. DATUM: NAD83 | VERT. DATUM: NAVD88 GRID UNITS: US SURVEY FEET	
SHEET NO: 16 OF 29	

Magnetic Anomaly Tables

Island Road Marsh Creation and Nourishment Project (TE-117)
For
Coastal Protection and Restoration Authority
of Louisiana
Terrebonne Parish,
Louisiana

4/28/2016 - P:\Y-2015\2015.0962\DWG\150962_SHEET 11-20.DWG

6" Enlink/Crosstex Pipeline

Point No.	Coordinates (NAD83)		Coordinates (NAD83)		T.O.P. EL. (FT.)	D.O.C. (FT.)	DESC.
	Easting	Northing	Latitude	Longitude			
1000	3,549,193.70	330,813.80	29° 24' 25.0006"	90° 29' 25.8806"	-5.6	5.1	PLINE
1001	3,549,506.83	330,757.14	29° 24' 24.4169"	90° 29' 22.3452"	-5.5	3.0	PLINE
1002	3,549,824.55	330,707.54	29° 24' 23.9027"	90° 29' 18.7573"	-5.0	3.0	PLINE
1003	3,550,048.48	330,676.44	29° 24' 23.5784"	90° 29' 16.2282"	-9.2	6.9	PLINE
1004	3,550,335.10	330,634.61	29° 24' 23.1435"	90° 29' 12.9912"	-4.5	2.0	PLINE
1005	3,550,708.65	330,577.12	29° 24' 22.5470"	90° 29' 08.7729"	-4.5	1.2	PLINE
1006	3,550,996.97	330,533.57	29° 24' 22.0948"	90° 29' 05.5169"	-4.6	0.9	PLINE
1007	3,551,311.73	330,487.48	29° 24' 21.6153"	90° 29' 01.9621"	-5.2	1.7	PLINE
1008	3,551,600.43	330,447.01	29° 24' 21.1936"	90° 28' 58.7016"	-5.5	2.3	PLINE
1009	3,551,923.64	330,396.76	29° 24' 20.6724"	90° 28' 55.0517"	-4.9	1.5	PLINE
1010	3,552,212.10	330,355.36	29° 24' 20.2413"	90° 28' 51.7940"	-4.7	1.5	PLINE
1011	3,552,422.20	330,324.25	29° 24' 19.9178"	90° 28' 49.4213"	-5.4	2.5	PLINE
1012	3,552,733.23	330,279.85	29° 24' 19.4554"	90° 28' 45.9087"	-5.2	2.5	PLINE
1013	3,553,025.68	330,236.93	29° 24' 19.0089"	90° 28' 42.6060"	-5.5	3.0	PLINE
1014	3,553,412.46	330,182.01	29° 24' 18.4366"	90° 28' 38.2379"	-4.6	1.6	PLINE
1015	3,553,731.59	330,132.81	29° 24' 17.9260"	90° 28' 34.6341"	-4.5	2.1	PLINE
1016	3,554,021.51	330,089.36	29° 24' 17.4744"	90° 28' 31.3601"	-5.4	3.1	PLINE
1017	3,554,302.16	330,046.56	29° 24' 17.0298"	90° 28' 28.1908"	-5.3	5.3	PLINE
1018	3,554,596.93	330,001.09	29° 24' 16.5578"	90° 28' 24.8622"	-4.5	3.7	PLINE
1019	3,554,882.87	329,957.64	29° 24' 16.1065"	90° 28' 21.6332"	-9.4	8.8	PLINE
1020	3,555,168.58	329,919.13	29° 24' 15.7040"	90° 28' 18.4063"	-9.4	8.8	PLINE
1021	3,555,524.92	329,863.00	29° 24' 15.1218"	90° 28' 14.3826"	-12.9	11.8	PLINE

20" Gulfsouth Pipeline

Point No.	Coordinates (NAD83)		Coordinates (NAD83)		T.O.P. EL. (FT.)	D.O.C. (FT.)	DESC.
	Easting	Northing	Latitude	Longitude			
1022	3,549,142.50	330,714.99	29° 24' 24.0261"	90° 29' 26.4677"	-15.8	14.8	PLINE
1023	3,549,242.60	330,688.40	29° 24' 23.7556"	90° 29' 25.3383"	-15.9	14.0	PLINE
1024	3,549,398.86	330,649.32	29° 24' 23.3574"	90° 29' 23.5748"	-16.5	14.6	PLINE
1025	3,549,644.65	330,594.76	29° 24' 22.7994"	90° 29' 20.8005"	-16.9	15.7	PLINE
1026	3,549,893.66	330,553.03	29° 24' 22.3681"	90° 29' 17.9888"	-15.9	14.2	PLINE
1027	3,550,154.67	330,514.04	29° 24' 21.9631"	90° 29' 15.0412"	-16.0	14.3	PLINE
1028	3,550,402.96	330,480.01	29° 24' 21.6080"	90° 29' 12.2369"	-15.6	13.7	PLINE
1029	3,550,646.00	330,447.12	29° 24' 21.2647"	90° 29' 09.4919"	-15.7	12.8	PLINE
1030	3,550,902.70	330,409.01	29° 24' 20.8686"	90° 29' 06.5930"	-16.1	12.4	PLINE
1031	3,551,145.97	330,370.73	29° 24' 20.4718"	90° 29' 03.8459"	-16.4	13.0	PLINE
1032	3,551,398.61	330,335.46	29° 24' 20.1041"	90° 29' 00.9927"	-16.1	11.2	PLINE
1033	3,551,657.77	330,295.54	29° 24' 19.6899"	90° 28' 58.0660"	-17.2	13.7	PLINE
1034	3,551,919.32	330,256.97	29° 24' 19.2889"	90° 28' 55.1123"	-15.7	12.3	PLINE
1035	3,552,172.23	330,220.73	29° 24' 18.9115"	90° 28' 52.2561"	-16.6	13.5	PLINE
1036	3,552,435.57	330,184.61	29° 24' 18.5345"	90° 28' 49.2819"	-15.6	12.5	PLINE
1037	3,552,691.54	330,149.62	29° 24' 18.1693"	90° 28' 46.3910"	-16.0	12.7	PLINE
1038	3,552,942.93	330,112.04	29° 24' 17.7787"	90° 28' 43.5521"	-15.7	13.6	PLINE
1039	3,553,211.13	330,071.01	29° 24' 17.3527"	90° 28' 40.5233"	-16.6	14.9	PLINE
1040	3,553,404.86	330,042.63	29° 24' 17.0574"	90° 28' 38.3356"	-16.6	14.6	PLINE
1041	3,553,628.28	330,010.11	29° 24' 16.7190"	90° 28' 35.8125"	-15.3	13.4	PLINE
1042	3,553,873.15	329,976.04	29° 24' 16.3636"	90° 28' 33.0469"	-15.2	12.3	PLINE
1043	3,554,138.00	329,937.19	29° 24' 15.9593"	90° 28' 30.0560"	-16.6	12.5	PLINE
1044	3,554,413.60	329,895.22	29° 24' 15.5234"	90° 28' 26.9438"	-15.7	10.8	PLINE
1045	3,554,669.92	329,857.61	29° 24' 15.1321"	90° 28' 24.0491"	-15.0	9.9	PLINE
1046	3,554,911.75	329,823.11	29° 24' 14.7726"	90° 28' 21.3181"	-14.9	10.0	PLINE
1047	3,555,080.18	329,799.22	29° 24' 14.5236"	90° 28' 19.4160"	-14.9	10.0	PLINE
1048	3,555,323.74	329,766.02	29° 24' 14.1768"	90° 28' 16.6653"	-13.9	11.2	PLINE
1049	3,555,493.32	329,737.84	29° 24' 13.8851"	90° 28' 14.7506"	-15.1	9.2	PLINE
1050	3,555,897.05	329,679.56	29° 24' 13.2782"	90° 28' 10.1912"	-16.0	13.3	PLINE
1051	3,556,146.48	329,643.61	29° 24' 12.9036"	90° 28' 07.3744"	-15.4	11.3	PLINE
1052	3,556,413.32	329,604.01	29° 24' 12.4916"	90° 28' 04.3610"	-15.9	12.2	PLINE

8" Enterprise Pipeline

Point No.	Coordinates (NAD83)		Coordinates (NAD83)		T.O.P. EL. (FT.)	D.O.C. (FT.)	DESC.
	Easting	Northing	Latitude	Longitude			
1053	3,549,164.57	330,664.60	29° 24' 23.5258"	90° 29' 26.2224"	-6.1	4.9	PLINE
1054	3,549,371.74	330,593.96	29° 24' 22.8113"	90° 29' 23.8861"	-5.6	4.0	PLINE
1055	3,549,673.19	330,496.45	29° 24' 21.8240"	90° 29' 20.4861"	-5.0	4.8	PLINE
1056	3,549,871.13	330,459.02	29° 24' 21.4391"	90° 29' 18.2514"	-5.0	5.0	PLINE
1057	3,550,144.01	330,417.79	29° 24' 21.0110"	90° 29' 15.1697"	-4.6	4.6	PLINE
1058	3,550,387.24	330,382.97	29° 24' 20.6485"	90° 29' 12.4228"	-4.8	4.8	PLINE
1059	3,550,626.59	330,348.67	29° 24' 20.2915"	90° 29' 09.7197"	-4.7	4.7	PLINE
1060	3,550,886.30	330,312.18	29° 24' 19.9112"	90° 29' 06.7865"	-2.6	2.2	PLINE
1061	3,550,984.94	330,296.95	29° 24' 19.7532"	90° 29' 05.6727"	-2.8	1.4	PLINE
1062	3,551,117.17	330,277.20	29° 24' 19.5480"	90° 29' 04.1794"	-2.5	3.0	PLINE
1063	3,551,421.53	330,235.28	29° 24' 19.1107"	90° 29' 00.7419"	-3.0	0.2	PLINE
1064	3,551,613.67	330,206.60	29° 24' 18.8126"	90° 28' 58.5721"	-2.5	2.5	PLINE
1065	3,551,893.07	330,166.44	29° 24' 18.3946"	90° 28' 55.4167"	-2.5	2.5	PLINE
1066	3,552,157.09	330,127.22	29° 24' 17.9869"	90° 28' 52.4351"	-4.8	4.8	PLINE
1067	3,552,430.35	330,087.70	29° 24' 17.5755"	90° 28' 49.3491"	-4.6	4.6	PLINE
1068	3,552,609.60	330,061.20	29° 24' 17.3000"	90° 28' 47.3248"	-2.5	2.5	PLINE
1069	3,552,664.48	330,053.64	29° 24' 17.2211"	90° 28' 46.7050"	-4.9	0.0	PLINE
1070	3,552,729.00	330,045.48	29° 24' 17.1355"	90° 28' 45.9763"	-2.2	2.8	PLINE
1071	3,552,923.45	330,017.30	29° 24' 16.8422"	90° 28' 43.7803"	-4.8	4.8	PLINE
1072	3,553,204.80	329,976.04	29° 24' 16.4131"	90° 28' 40.6029"	-4.2	4.2	PLINE
1073	3,553,401.28	329,948.64	29° 24' 16.1272"	90° 28' 38.3840"	-4.6	4.6	PLINE
1074	3,553,633.29	329,917.73	29° 24' 15.8041"	90° 28' 35.7637"	-6.3	6.3	PLINE
1075	3,553,849.18	329,890.97	29° 24' 15.5233"	90° 28' 33.3252"	-6.7	6.7	PLINE
1076	3,554,127.60	329,855.99	29° 24' 15.1563"	90° 28' 30.1804"	-7.1	7.1	PLINE
1077	3,554,407.64	329,820.63	29° 24' 14.7854"	90° 28' 27.0175"	-7.0	7.0	PLINE
1078	3,554,648.33	329,788.10	29° 24' 14.4455"	90° 28' 24.2992"	-6.8	6.8	PLINE
1079	3,554,881.10	329,758.16	29° 24' 14.1319"	90° 28' 21.6701"	-5.6	5.6	PLINE
1080	3,554,895.77	329,755.55	29° 24' 14.1050"	90° 28' 21.5046"	3.6	0.0	RISER
1081	3,554,904.10	329,754.84	29° 24' 14.0973"	90° 28' 21.4105"	-4.7	4.7	PLINE
1082	3,555,067.90	329,732.11	29° 24' 13.8601"	90° 28' 19.5606"	-9.2	9.2	PLINE
1083	3,555,291.02	329,699.46	29° 24' 13.5203"	90° 28' 17.0409"	-14.4	11.4	PLINE
1084	3,555,477.98	329,670.48	29° 24' 13.2195"	90° 28' 14.9296"	-14.7	11.9	PLINE

STATE OF LOUISIANA
JAMES B. PELLEGRIN
REGISTERED PROFESSIONAL LAND SURVEYOR

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REVISION DESCRIPTION:
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DRAWN BY:	JTR	APPROVED BY:	KAK
DATE:	2/29/2016	JOB NO:	2015.0962
DRAWING NAME:	150962_SHEET 11-20.dwg		

PROJECTION: LOUISIANA SOUTH
GEO. DATUM: NAD83 | VERT. DATUM: NAVD88
GRID UNITS: US SURVEY FEET

SHEET NO: 17 OF 29

Investigation Tables

Island Road Marsh Creation and Nourishment Project (TE-117)
For
Coastal Protection and Restoration Authority
of Louisiana
Terrebonne Parish,
Louisiana

4/28/2016 - P:\Y-2015\2015.0962\DWG\150962_SHEET 11-20.DWG

10" Pipeline

Point No.	Coordinates (NAD83)		Coordinates (NAD83)		T.O.P. EL. (FT.)	D.O.C. (FT.)	DESC.
	Easting	Northing	Latitude	Longitude			
1085	3,549,242.76	330,543.85	29° 24' 22.3247"	90° 29' 25.3484"	-3.7	3.2	PLINE
1086	3,549,503.18	330,423.97	29° 24' 21.1190"	90° 29' 22.4142"	-12.5	11.4	PLINE
1087	3,549,714.16	330,397.44	29° 24' 20.8409"	90° 29' 20.0312"	-14.6	13.3	PLINE
1088	3,549,971.58	330,362.54	29° 24' 20.4767"	90° 29' 17.1238"	-14.0	12.4	PLINE
1089	3,550,214.83	330,327.53	29° 24' 20.1123"	90° 29' 14.3766"	-14.6	12.4	PLINE
1090	3,550,437.97	330,294.14	29° 24' 19.7654"	90° 29' 11.8567"	-15.0	12.7	PLINE
1091	3,550,687.25	330,256.54	29° 24' 19.3750"	90° 29' 09.0416"	-14.5	12.1	PLINE
1092	3,550,956.20	330,215.70	29° 24' 18.9510"	90° 29' 06.0043"	-14.5	9.6	PLINE
1093	3,551,219.88	330,172.80	29° 24' 18.5069"	90° 29' 03.0269"	-14.7	12.3	PLINE
1094	3,551,473.85	330,131.77	29° 24' 18.0822"	90° 29' 00.1591"	-14.7	10.9	PLINE
1095	3,551,757.14	330,088.59	29° 24' 17.6339"	90° 28' 56.9600"	-14.9	12.9	PLINE
1096	3,552,024.12	330,054.03	29° 24' 17.2722"	90° 28' 53.9445"	-14.4	12.2	PLINE
1097	3,552,307.05	330,014.51	29° 24' 16.8601"	90° 28' 50.7492"	-13.5	10.2	PLINE
1098	3,552,568.52	329,974.83	29° 24' 16.4480"	90° 28' 47.7966"	-12.9	11.5	PLINE
1099	3,552,847.44	329,930.96	29° 24' 15.9932"	90° 28' 44.6469"	-12.6	10.0	PLINE
1100	3,553,115.36	329,891.11	29° 24' 15.5789"	90° 28' 41.6212"	-13.6	10.3	PLINE
1101	3,553,375.79	329,852.99	29° 24' 15.1823"	90° 28' 38.6803"	-15.0	11.3	PLINE
1102	3,553,635.52	329,816.00	29° 24' 14.7969"	90° 28' 35.7470"	-15.6	11.6	PLINE
1103	3,553,898.09	329,778.08	29° 24' 14.4021"	90° 28' 32.7817"	-15.5	10.8	PLINE
1104	3,554,138.84	329,744.33	29° 24' 14.0501"	90° 28' 30.0628"	-15.7	10.8	PLINE
1105	3,554,382.28	329,708.54	29° 24' 13.6777"	90° 28' 27.3137"	-15.6	11.1	PLINE
1106	3,554,624.92	329,672.52	29° 24' 13.3032"	90° 28' 24.5737"	-11.4	7.2	PLINE
1107	3,554,898.93	329,631.17	29° 24' 12.8734"	90° 28' 21.4793"	-13.7	11.2	PLINE
1108	3,555,143.63	329,596.69	29° 24' 12.5139"	90° 28' 18.7159"	-17.5	12.5	PLINE
1109	3,555,392.13	329,559.40	29° 24' 12.1263"	90° 28' 15.9097"	-14.0	13.0	PLINE
1110	3,555,644.87	329,519.42	29° 24' 11.7116"	90° 28' 13.0557"	-14.0	13.0	PLINE

3" Gulfsouth Pipeline

Point No.	Coordinates (NAD83)		Coordinates (NAD83)		T.O.P. EL. (FT.)	D.O.C. (FT.)	DESC.
	Easting	Northing	Latitude	Longitude			
1111	3,550,070.48	330,570.99	29° 24' 22.5330"	90° 29' 15.9883"	-7.9	7.5	PLINE
1112	3,550,071.05	330,589.89	29° 24' 22.7200"	90° 29' 15.9802"	-0.1	0.0	VALVE
1113	3,550,072.82	330,590.97	29° 24' 22.7306"	90° 29' 15.9602"	-0.1	0.0	RISER
1114	3,550,072.64	330,601.35	29° 24' 22.8334"	90° 29' 15.9613"	-0.1	0.0	RISER
1115	3,550,073.26	330,602.53	29° 24' 22.8450"	90° 29' 15.9542"	-0.1	0.0	RISER
1116	3,550,077.18	330,633.06	29° 24' 23.1470"	90° 29' 15.9074"	-7.5	7.3	PLINE
1117	3,550,170.18	330,685.41	29° 24' 23.6584"	90° 29' 14.8516"	-4.3	3.0	PLINE

10" Columbia Gulf Pipeline

Point No.	Coordinates (NAD83)		Coordinates (NAD83)		T.O.P. EL. (FT.)	D.O.C. (FT.)	DESC.
	Easting	Northing	Latitude	Longitude			
1118	3,551,426.38	330,137.99	29° 24' 18.1472"	90° 29' 00.6952"	1.6	0.0	RISER
1119	3,551,428.44	330,145.28	29° 24' 18.2193"	90° 29' 00.6713"	10.5	0.0	VALVE
1120	3,551,430.32	330,155.78	29° 24' 18.3231"	90° 29' 00.6492"	0.8	0.0	RISER
1121	3,551,439.64	330,176.69	29° 24' 18.5293"	90° 29' 00.5421"	-7.4	2.1	PLINE
1122	3,551,482.57	330,272.21	29° 24' 19.4718"	90° 29' 00.0488"	-7.8	4.4	PLINE
1123	3,551,541.36	330,411.03	29° 24' 20.8417"	90° 28' 59.3725"	-8.5	6.3	PLINE
1124	3,551,595.38	330,514.39	29° 24' 21.8610"	90° 28' 58.7531"	-7.9	5.6	PLINE

Area A Investigation

Point No.	Coordinates (NAD83)		Coordinates (NAD83)		DESC.
	Easting	Northing	Latitude	Longitude	
1125	3,549,710.92	329,395.92	29° 24' 10.9267"	90° 29' 20.1512"	PILING
1126	3,549,786.00	329,314.00	29° 24' 10.1103"	90° 29' 19.3092"	CRAB TRAP
1127	3,551,010.00	329,381.00	29° 24' 10.6840"	90° 29' 05.4660"	DEBRIS

Area B Investigation

Point No.	Coordinates (NAD83)		Coordinates (NAD83)		DESC.
	Easting	Northing	Latitude	Longitude	
1128	3,554,420.47	329,009.22	29° 24' 06.7520"	90° 28' 26.9413"	POSSIBLE WELL HEAD

Area C Investigation

Point No.	Coordinates (NAD83)		Coordinates (NAD83)		DESC.
	Easting	Northing	Latitude	Longitude	
1129	3,550,760.11	327,322.15	29° 23' 50.3210"	90° 29' 08.4632"	POSSIBLE WELL HEAD
1130	3,551,361.00	326,372.00	29° 23' 40.8710"	90° 29' 01.7500"	CRAB TRAP
1131	3,552,289.00	326,421.00	29° 23' 41.2878"	90° 28' 51.2555"	CRAB TRAP
1132	3,551,355.00	325,350.00	29° 23' 30.7542"	90° 29' 01.9035"	BOAT

Area D Investigation

Point No.	Coordinates (NAD83)		Coordinates (NAD83)		DESC.
	Easting	Northing	Latitude	Longitude	
1133	3,553,802.77	326,198.15	29° 23' 38.9700"	90° 28' 34.1622"	CRAB TRAP
1134	3,553,812.57	326,055.96	29° 23' 37.5616"	90° 28' 34.0634"	SIGN POST
1135	3,555,832.63	325,651.80	29° 23' 33.4105"	90° 28' 11.2626"	CRAB TRAP

Area E Investigation

Point No.	Coordinates (NAD83)		Coordinates (NAD83)		DESC.
	Easting	Northing	Latitude	Longitude	
1136	3,553,856.49	325,011.45	29° 23' 27.2184"	90° 28' 33.6553"	SIGN POST
1137	3,554,589.00	324,534.00	29° 23' 22.4376"	90° 28' 25.4155"	CRAB TRAP
1138	3,552,905.90	323,811.38	29° 23' 15.4087"	90° 28' 44.5018"	CRAB TRAP
1139	3,552,928.80	322,496.81	29° 23' 02.3935"	90° 28' 44.3537"	CRMS TIDE GUAGE
1140	3,552,951.03	322,486.20	29° 23' 02.2869"	90° 28' 44.1033"	DEBRIS

NOTE: ALL MAGNETIC ANOMALIES WERE INVESTIGATED. NO HAZARDS WERE FOUND EXCEPT AT THE LOCATIONS SPECIFIED IN THE TABLES SHOWN ABOVE (POINTS 1125-1140).

NOTES:

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REVISION DESCRIPTION:
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DRAWN BY:	JTR	APPROVED BY:	KAK
DATE:	2/29/2016	JOB NO:	2015.0962
DRAWING NAME:	150962_SHEET 11-20.dwg		
PROJECTION: LOUISIANA SOUTH GEO. DATUM: NAD83 | VERT. DATUM: NAVD88 GRID UNITS: US SURVEY FEET			
SHEET NO:	18	OF	29

Investigation Tables

Island Road Marsh Creation and Nourishment Project (TE-117)
For
Coastal Protection and Restoration Authority
of Louisiana
Terrebonne Parish,
Louisiana

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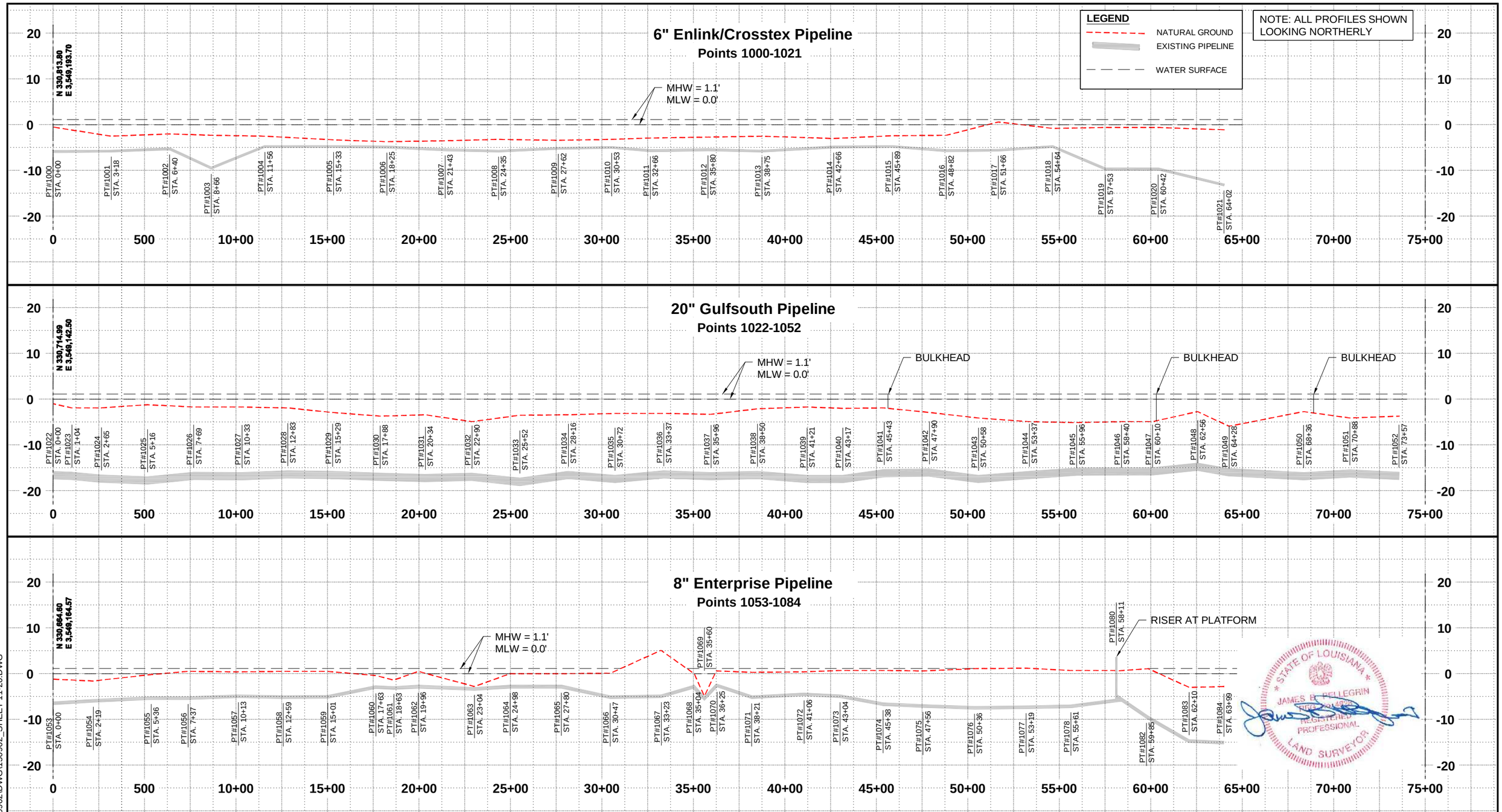

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HORIZONTAL SCALE: 1" = 500'
500' 250' 0' 500'
VERTICAL SCALE: 1" = 20'
20' 10' 0' 20'

REV. NO:	00	REV. DATE:	--/--/--	REV. BY:	---

REVISION DESCRIPTION:
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DRAWN BY:	JTR	APPROVED BY:	KAK
DATE:	2/29/2016	JOB NO:	2015.0962
DRAWING NAME:	150962_SHEET 11-20.dwg		

PROJECTION: LOUISIANA SOUTH
GEO. DATUM: NAD83 | VERT. DATUM: NAVD88
GRID UNITS: US SURVEY FEET

SHEET NO: 19 OF 29

Pipeline Profiles

Island Road Marsh Creation and Nourishment Project (TE-117)
For
Coastal Protection and Restoration Authority
of Louisiana
Terrebonne Parish,
Louisiana

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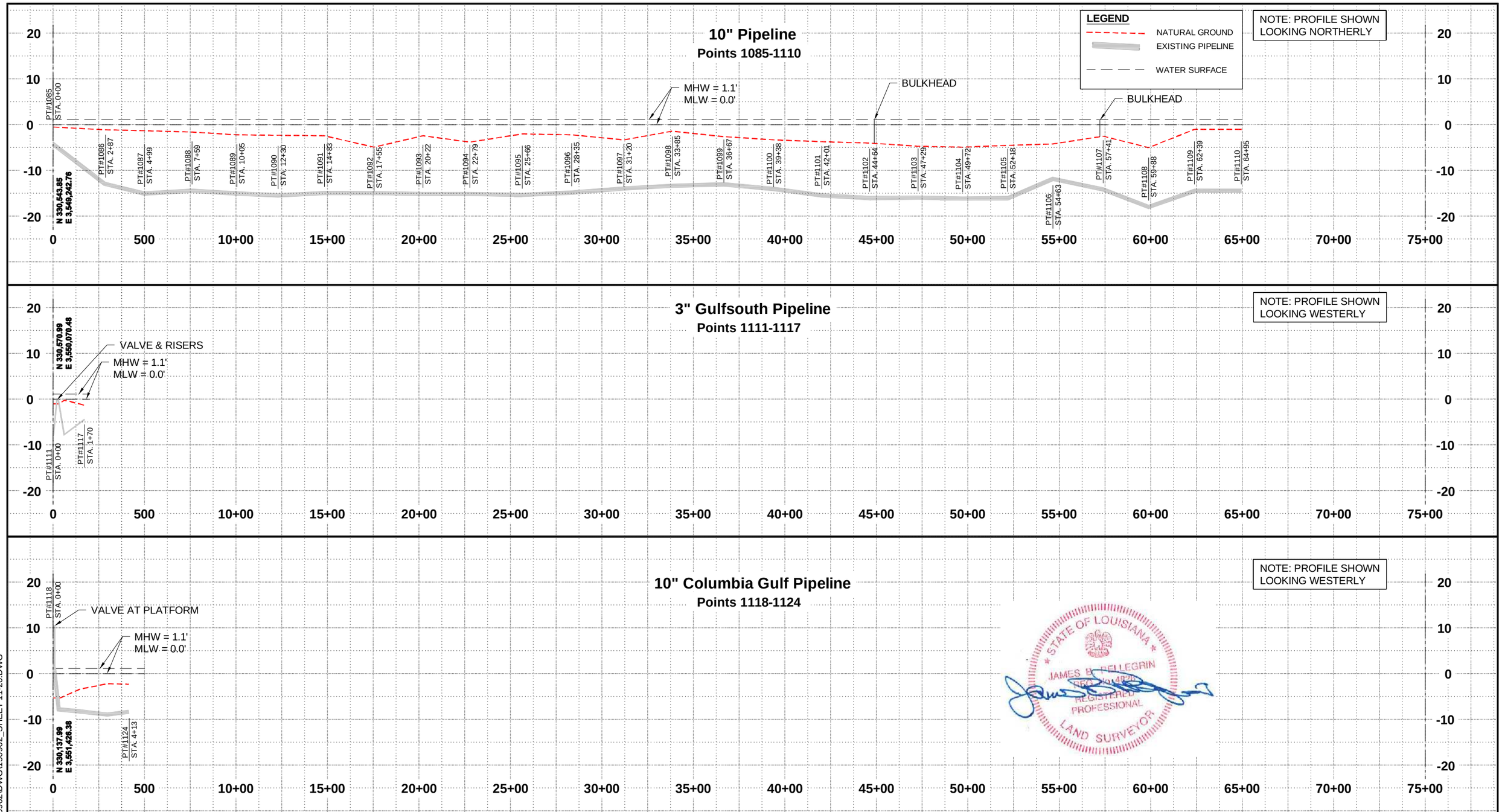

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500' 250' 0' 500'
VERTICAL SCALE: 1" = 20'
20' 10' 0' 20'

REV. NO:	00	REV. DATE:	--/--/--	REV. BY:	---

REVISION DESCRIPTION:
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DRAWN BY:	JTR	APPROVED BY:	KAK
DATE:	2/29/2016	JOB NO:	2015.0962
DRAWING NAME:	150962_SHEET 11-20.dwg		

PROJECTION: LOUISIANA SOUTH
GEO. DATUM: NAD83 | VERT. DATUM: NAVD88
GRID UNITS: US SURVEY FEET

SHEET NO: 20 OF 29

Pipeline Profiles

Island Road Marsh Creation and Nourishment Project (TE-117)
For
Coastal Protection and Restoration Authority
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Terrebonne Parish,
Louisiana

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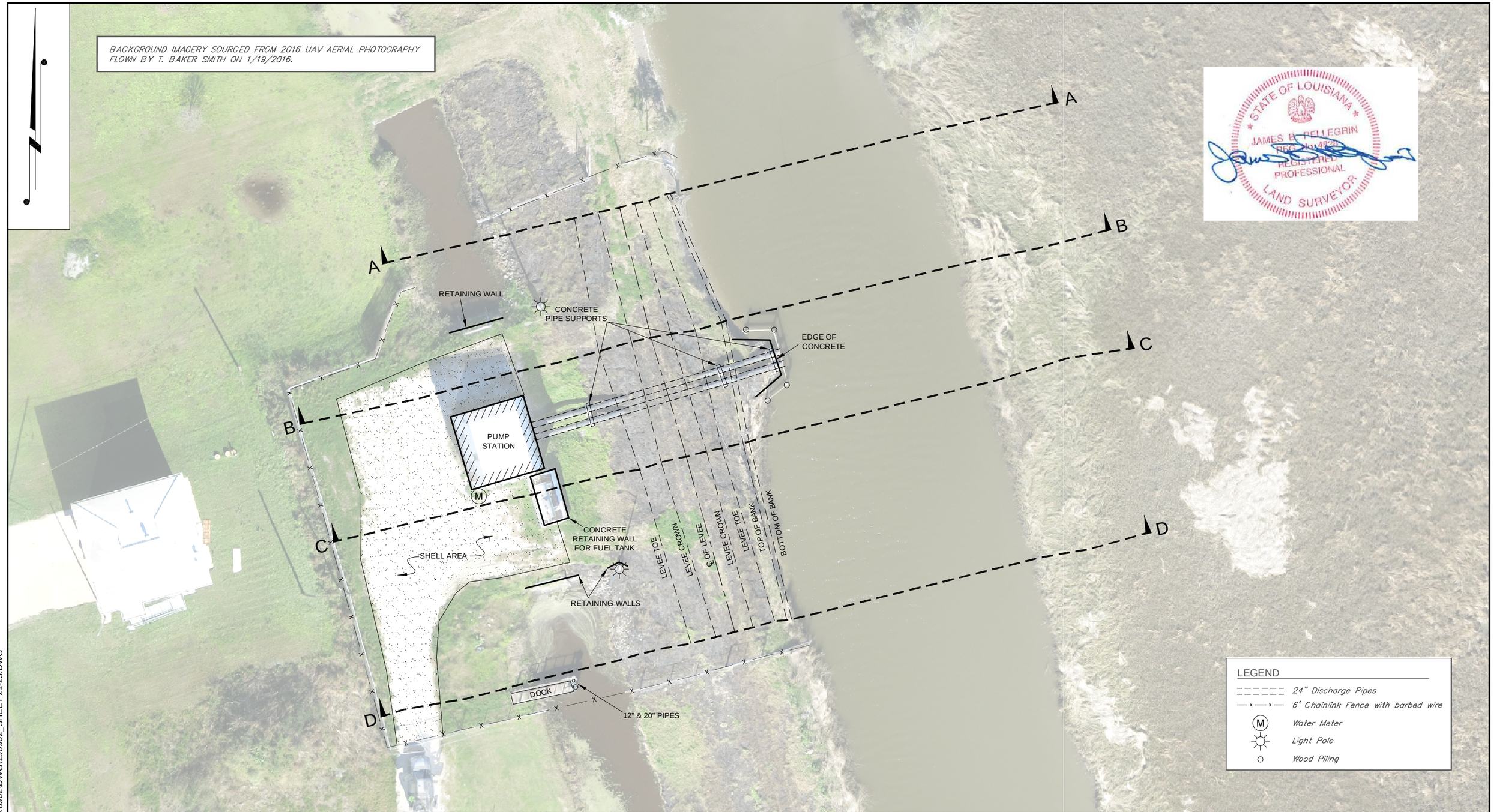
BACKGROUND IMAGERY SOURCED FROM 2016 UAV AERIAL PHOTOGRAPHY FLOWN BY T. BAKER SMITH ON 1/19/2016.



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SCALE IN FEET
30' 15' 0' 30'

REV. NO:	00	REV. DATE:	--/--/--	REV. BY:	---

REVISION DESCRIPTION:
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DATE:	2/29/2016	JOB NO:	2015.0962
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PROJECTION: LOUISIANA SOUTH GEO. DATUM: NAD83 | VERT. DATUM: NAVD88 GRID UNITS: US SURVEY FEET			
SHEET NO:	21	OF	29

Pump Station Plan View

Island Road Marsh Creation and Nourishment Project (TE-117)
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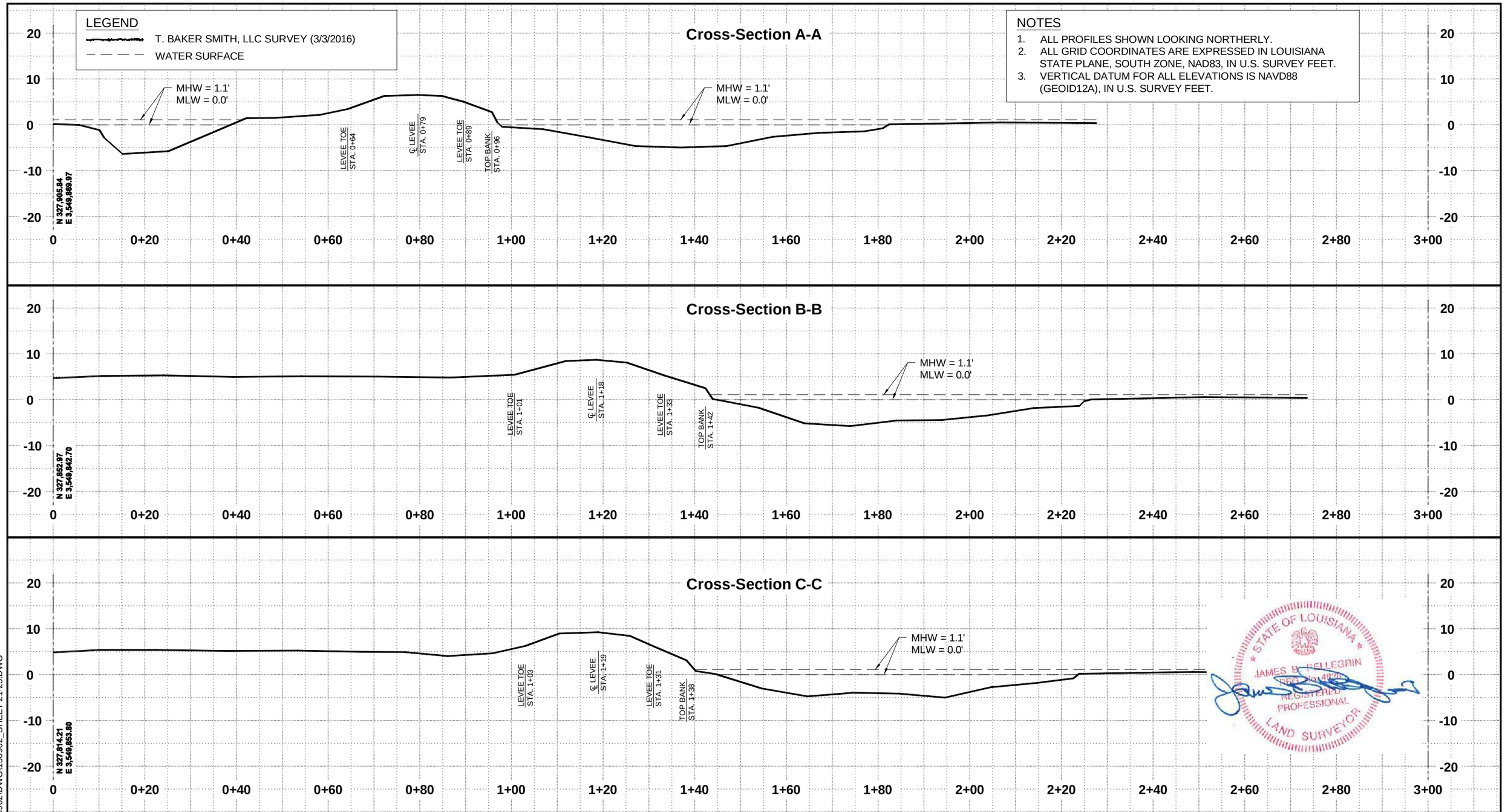

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20' 10' 0' 20'
VERTICAL SCALE: 1" = 20'
20' 10' 0' 20'

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PROJECTION: LOUISIANA SOUTH
GEO. DATUM: NAD83 | VERT. DATUM: NAVD88
GRID UNITS: US SURVEY FEET

SHEET NO: 22 OF 29

Cross-Sections

Island Road Marsh Creation and Nourishment Project (TE-117)
For
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Terrebonne Parish,
Louisiana

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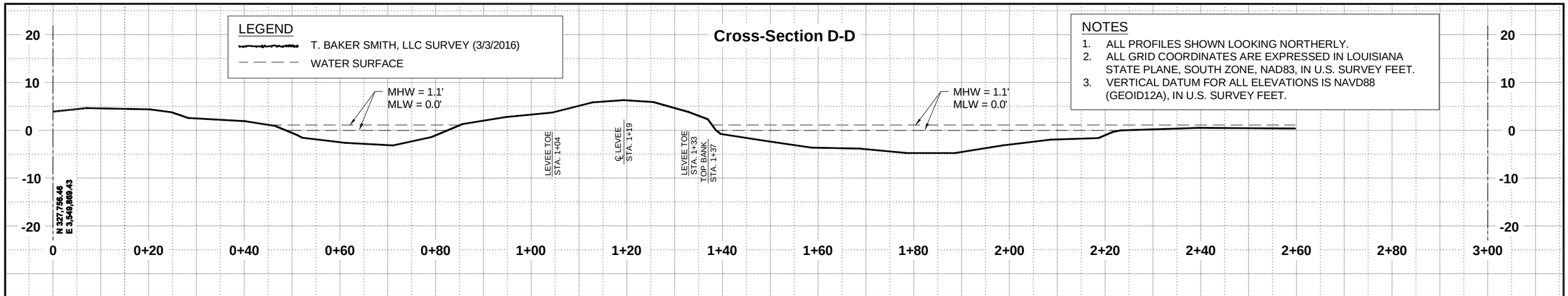

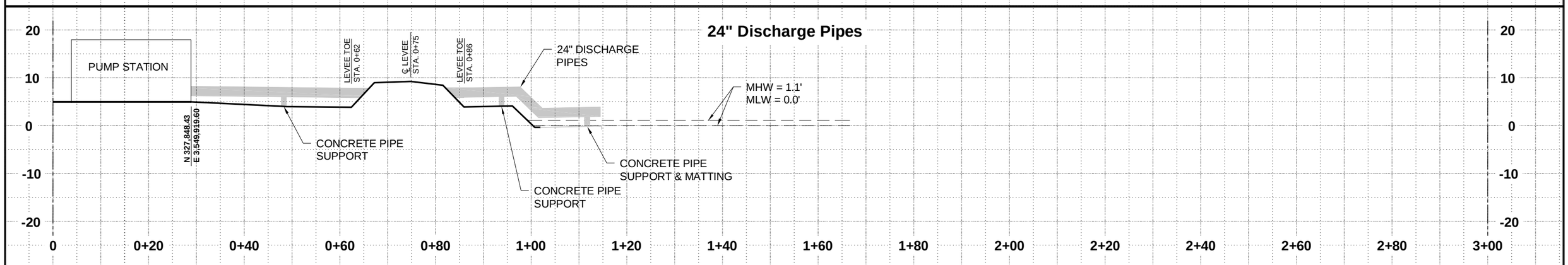

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20' 10' 0' 20'
VERTICAL SCALE: 1" = 20'
20' 10' 0' 20'

REV. NO:	00	REV. DATE:	--/--/--	REV. BY:	---

REVISION DESCRIPTION:
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DRAWN BY:	JTR	APPROVED BY:	KAK
DATE:	2/29/2016	JOB NO:	2015.0962
DRAWING NAME:	150962_SHEET 21-23.dwg		

PROJECTION: LOUISIANA SOUTH
GEO. DATUM: NAD83 | VERT. DATUM: NAVD88
GRID UNITS: US SURVEY FEET

SHEET NO: 23 OF 29

Cross-Sections

Island Road Marsh Creation and Nourishment Project (TE-117)
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Louisiana

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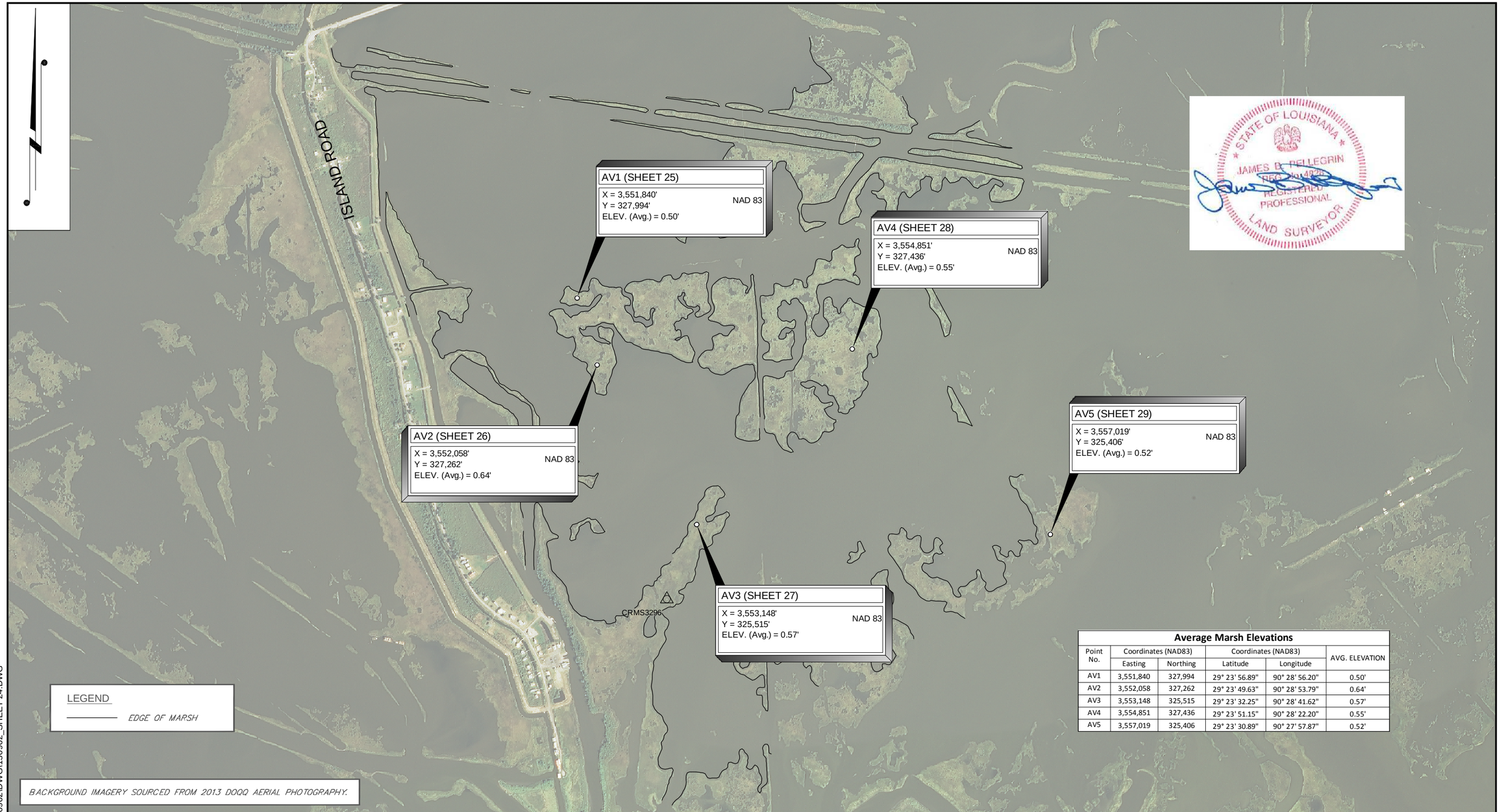

Average Marsh Elevations

Point No.	Coordinates (NAD83)		Coordinates (NAD83)		AVG. ELEVATION
	Easting	Northing	Latitude	Longitude	
AV1	3,551,840	327,994	29° 23' 56.89"	90° 28' 56.20"	0.50'
AV2	3,552,058	327,262	29° 23' 49.63"	90° 28' 53.79"	0.64'
AV3	3,553,148	325,515	29° 23' 32.25"	90° 28' 41.62"	0.57'
AV4	3,554,851	327,436	29° 23' 51.15"	90° 28' 22.20"	0.55'
AV5	3,557,019	325,406	29° 23' 30.89"	90° 27' 57.87"	0.52'

NOTES:

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SCALE IN FEET
1000' 500' 0' 1000'

REV. NO:	00	REV. DATE:	--/--/--	REV. BY:	---

REVISION DESCRIPTION:
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DRAWN BY:	JTR	APPROVED BY:	KAK
DATE:	2/29/2016	JOB NO:	2015.0962
DRAWING NAME:	150962_SHEET 24.dwg		

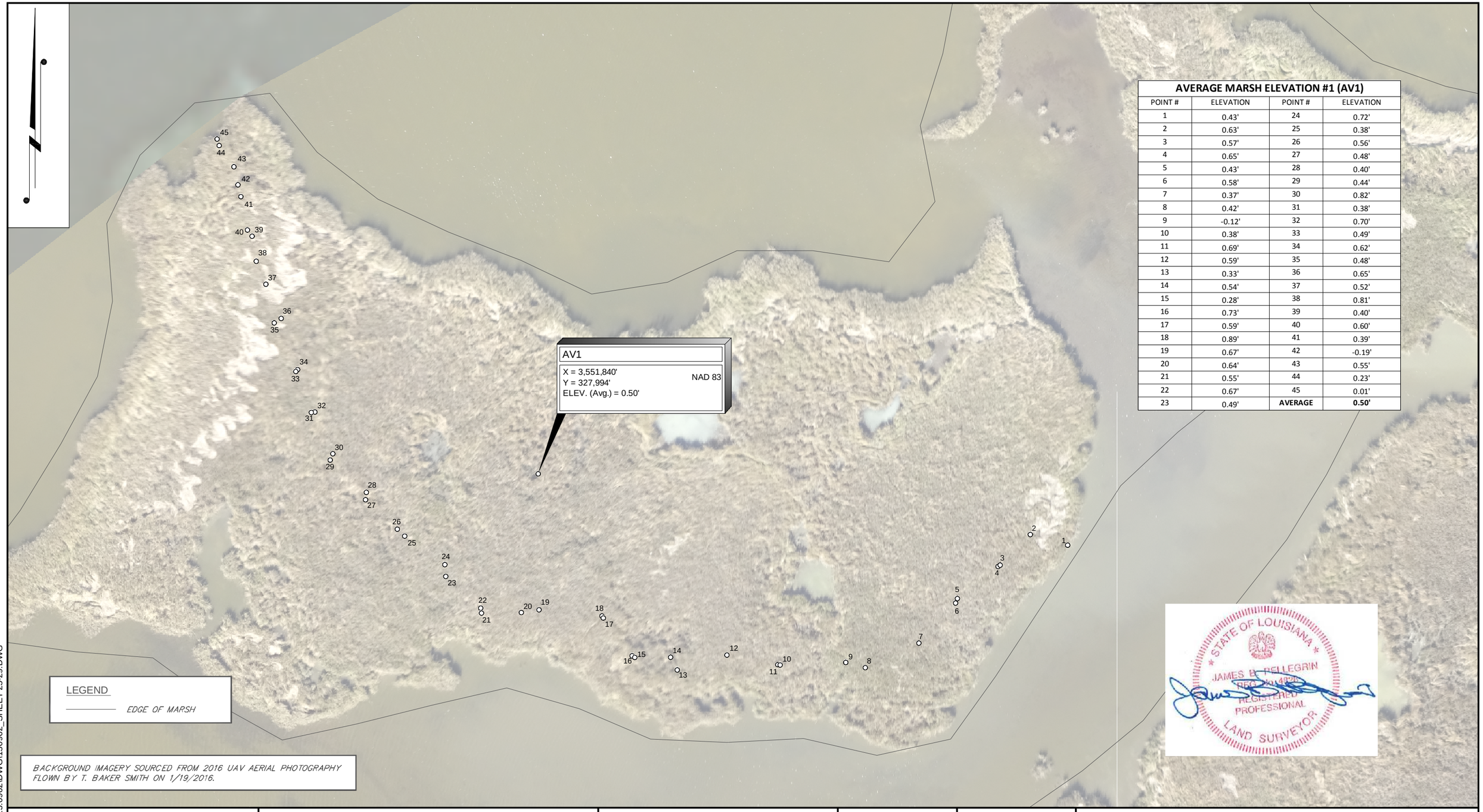
PROJECTION: LOUISIANA SOUTH
GEO. DATUM: NAD83 | VERT. DATUM: NAVD88
GRID UNITS: US SURVEY FEET

SHEET NO: 24 OF 29

Average Elevation Plan View Overall

Island Road Marsh Creation and Nourishment Project (TE-117)
For
Coastal Protection and Restoration Authority
of Louisiana
Terrebonne Parish,
Louisiana

4/28/2016 - P:\Y-2015\2015.0962\DWG\150962_SHEET 24.DWG



AVERAGE MARSH ELEVATION #1 (AV1)

POINT #	ELEVATION	POINT #	ELEVATION
1	0.43'	24	0.72'
2	0.63'	25	0.38'
3	0.57'	26	0.56'
4	0.65'	27	0.48'
5	0.43'	28	0.40'
6	0.58'	29	0.44'
7	0.37'	30	0.82'
8	0.42'	31	0.38'
9	-0.12'	32	0.70'
10	0.38'	33	0.49'
11	0.69'	34	0.62'
12	0.59'	35	0.48'
13	0.33'	36	0.65'
14	0.54'	37	0.52'
15	0.28'	38	0.81'
16	0.73'	39	0.40'
17	0.59'	40	0.60'
18	0.89'	41	0.39'
19	0.67'	42	-0.19'
20	0.64'	43	0.55'
21	0.55'	44	0.23'
22	0.67'	45	0.01'
23	0.49'	**AVERAGE**	**0.50'**

NOTES:

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SCALE IN FEET
30' 15' 0' 30'

REV. NO:	00	REV. DATE:	--/--/--	REV. BY:	---

REVISION DESCRIPTION:
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DRAWN BY:	JTR	APPROVED BY:	KAK
DATE:	2/29/2016	JOB NO:	2015.0962
DRAWING NAME:	150962_SHEET 25-29.dwg		

PROJECTION: LOUISIANA SOUTH
GEO. DATUM: NAD83 | VERT. DATUM: NAVD88
GRID UNITS: US SURVEY FEET

SHEET NO: 25 OF 29

Average Marsh Elevations

Island Road Marsh Creation and Nourishment Project (TE-117)
For
Coastal Protection and Restoration Authority
of Louisiana
Terrebonne Parish,
Louisiana

4/28/2016 - P:\Y-2015\2015.0962\DWG\150962_SHEET 25-29.DWG

AVERAGE MARSH ELEVATION #2 (AV2)

POINT #	ELEVATION	POINT #	ELEVATION
46	0.77'	73	0.59'
47	0.90'	74	0.37'
48	0.92'	75	0.59'
49	0.58'	76	0.60'
50	0.59'	77	0.31'
51	1.04'	78	0.34'
52	0.49'	79	0.69'
53	0.77'	80	0.85'
54	0.39'	81	0.42'
55	0.85'	82	0.37'
56	0.55'	83	0.82'
57	0.81'	84	0.48'
58	0.94'	85	0.80'
59	0.43'	86	0.44'
60	0.60'	87	0.73'
61	1.00'	88	0.19'
62	0.84'	89	0.67'
63	0.30'	90	0.55'
64	0.34'	91	0.94'
65	0.90'	92	0.69'
66	0.61'	93	0.81'
67	0.90'	94	0.72'
68	0.43'	95	0.67'
69	0.94'	96	0.43'
70	0.29'	97	0.67'
71	0.59'	98	0.43'
72	0.86'	**AVERAGE**	**0.64'**

NOTES:

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SCALE IN FEET
60' 30' 0' 60'

REV. NO:	00	REV. DATE:	--/--/--	REV. BY:	---

REVISION DESCRIPTION:
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PROJECTION: LOUISIANA SOUTH
GEO. DATUM: NAD83 | VERT. DATUM: NAVD88
GRID UNITS: US SURVEY FEET

SHEET NO: 26 OF 29

Average Marsh Elevations

Island Road Marsh Creation and Nourishment Project (TE-117)
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AVERAGE MARSH ELEVATION #3 (AV3)			
POINT #	ELEVATION	POINT #	ELEVATION
99	0.33'	123	0.45'
100	0.54'	124	0.70'
101	0.54'	125	0.67'
102	0.37'	126	0.32'
103	0.32'	127	0.35'
104	0.35'	128	0.87'
105	0.43'	129	0.39'
106	0.73'	130	0.78'
107	0.73'	131	0.67'
108	0.39'	132	0.53'
109	0.48'	133	0.49'
110	0.44'	134	1.00'
111	0.42'	135	0.75'
112	0.35'	136	0.46'
113	0.33'	137	0.39'
114	0.30'	138	0.86'
115	0.17'	139	0.69'
116	0.32'	140	0.35'
117	0.77'	141	0.27'
118	0.28'	142	0.70'
119	0.36'	143	0.32'
120	0.75'	144	0.63'
121	0.54'	AVERAGE	0.57'
122	0.29'		

BACKGROUND IMAGERY SOURCED FROM 2016 UAV AERIAL PHOTOGRAPHY FLOWN BY T. BAKER SMITH ON 1/19/2016.

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60' 30' 0' 60'

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PROJECTION: LOUISIANA SOUTH
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SHEET NO: 27 OF 29

Average Marsh Elevations

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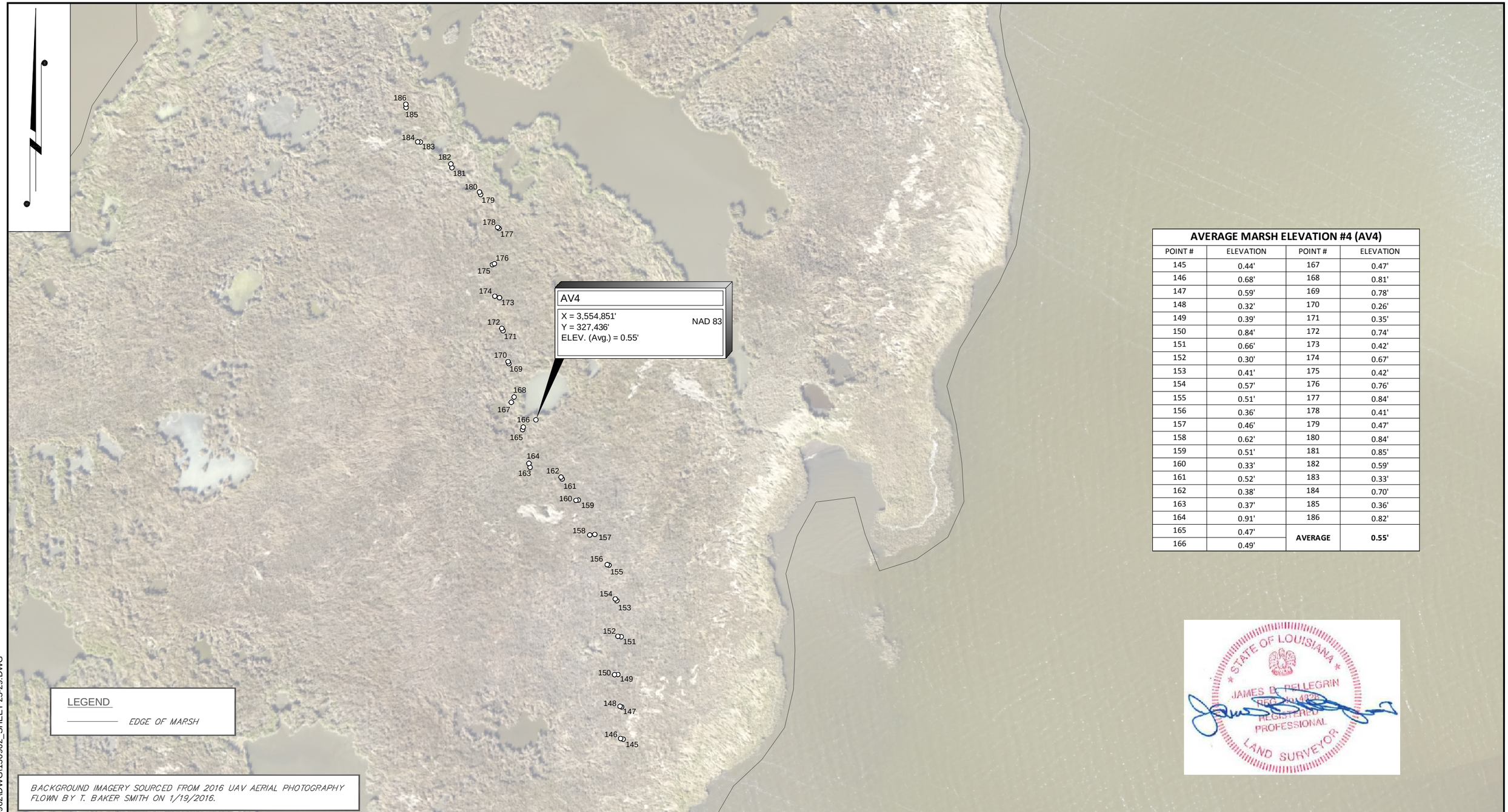

AVERAGE MARSH ELEVATION #4 (AV4)

POINT #	ELEVATION	POINT #	ELEVATION
145	0.44'	167	0.47'
146	0.68'	168	0.81'
147	0.59'	169	0.78'
148	0.32'	170	0.26'
149	0.39'	171	0.35'
150	0.84'	172	0.74'
151	0.66'	173	0.42'
152	0.30'	174	0.67'
153	0.41'	175	0.42'
154	0.57'	176	0.76'
155	0.51'	177	0.84'
156	0.36'	178	0.41'
157	0.46'	179	0.47'
158	0.62'	180	0.84'
159	0.51'	181	0.85'
160	0.33'	182	0.59'
161	0.52'	183	0.33'
162	0.38'	184	0.70'
163	0.37'	185	0.36'
164	0.91'	186	0.82'
165	0.47'	**AVERAGE**	**0.55'**
166	0.49'		

NOTES:

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PROJECTION: LOUISIANA SOUTH
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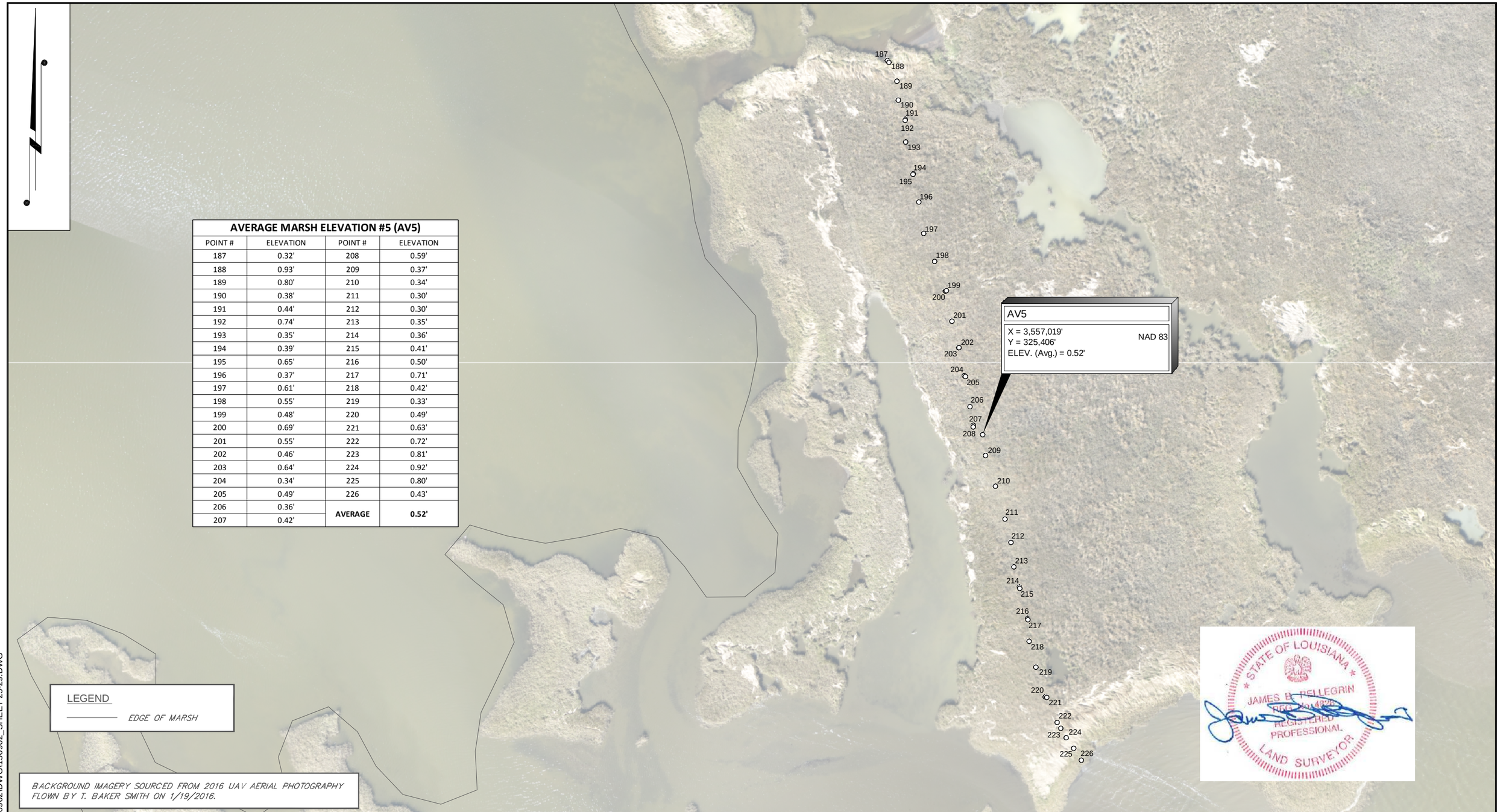

AVERAGE MARSH ELEVATION #5 (AV5)

POINT #	ELEVATION	POINT #	ELEVATION
187	0.32'	208	0.59'
188	0.93'	209	0.37'
189	0.80'	210	0.34'
190	0.38'	211	0.30'
191	0.44'	212	0.30'
192	0.74'	213	0.35'
193	0.35'	214	0.36'
194	0.39'	215	0.41'
195	0.65'	216	0.50'
196	0.37'	217	0.71'
197	0.61'	218	0.42'
198	0.55'	219	0.33'
199	0.48'	220	0.49'
200	0.69'	221	0.63'
201	0.55'	222	0.72'
202	0.46'	223	0.81'
203	0.64'	224	0.92'
204	0.34'	225	0.80'
205	0.49'	226	0.43'
206	0.36'	AVERAGE	0.52'
207	0.42'		

NOTES:

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