STATE OF LOUISIANA
COASTAL PROTECTION AND RESTORATION AUTHORITY

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT

PROJECT NO. BA-0171

LAFOURCHE AND JEFFERSON PARISHES

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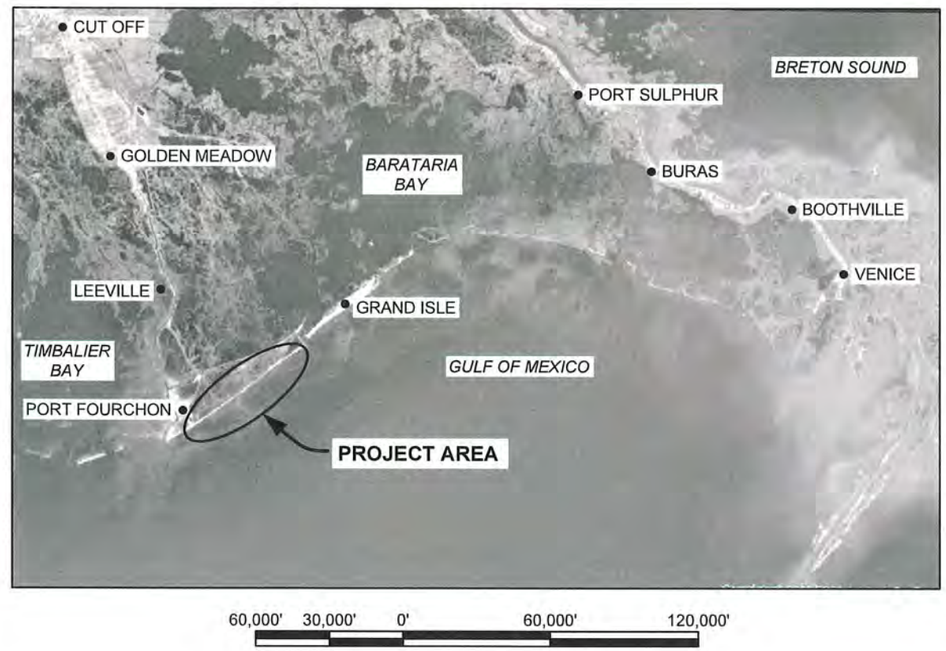

LICENSURE CLASSIFICATION REQUIREMENTS
HEAVY CONSTRUCTION OR DREDGING

SHANNON McCLAIN HAYNES
License No. 30552
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
10/30/2019

AMANDA M. TAYLOR
License No. 41999
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
10/30/19

REV.	DATE	DESCRIPTION	BY

COASTAL PROTECTION AND RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

TITLE SHEET

DESIGNED BY: A. TAYLOR, P.E. 041999
APPROVED BY: S. HAYNES, P.E.

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT

STATE PROJECT NUMBER: BA-0171
DRAWN BY: K. CANTU

DATE: OCT. 2019

SHEET 1 OF 53

GENERAL NOTES:

1. THE CONTRACTOR SHALL NOT, AT ANY TIME, TREAD ON EXISTING MARSH OR VEGETATED WETLANDS UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NAVIGATING WITHIN THE LIMITS OF THE PROJECT SITE. THE ENGINEER OR HIS REPRESENTATIVE SHALL MONITOR THE CONTRACTOR'S LOCATION DURING CONSTRUCTION.
3. PLANS AND SPECIFICATIONS ARE COMPLEMENTARY; WHAT IS REQUIRED BY ONE IS BINDING AS IF REQUIRED BY ALL. CLARIFICATIONS AND INTERPRETATIONS OF, OR NOTIFICATIONS OF MINOR VARIATIONS AND DEVIATIONS IN THE CONTRACT DOCUMENTS, WILL BE ISSUED BY THE ENGINEER.
4. ANY DAMAGE TO EXISTING U.S. COAST GUARD NAVIGATION AIDS OR PRIVATE NAVIGATION AIDS SHALL BE REPAIRED BY THE CONTRACTOR TO U.S. COAST GUARD STANDARDS AT THE EXPENSE OF THE CONTRACTOR.
5. THE MARSH CREATION AREA, BORROW AREAS, AND CONTAINMENT DIKES MAY BE REVISED BY THE ENGINEER THROUGHOUT THE WORK TO REFLECT CHANGES IN FIELD CONDITIONS.
6. THE CONTRACTOR SHALL PERFORM A MAGNETOMETER SURVEY OF THE DREDGE PIPELINE CORRIDOR, BORROW AREAS, AND MARSH CREATION AREA PRIOR TO EXCAVATION. DRAWINGS SHOWING THE TRACK LINES, ANY MAGNETOMETER HITS, COORDINATES, AMPLITUDE, SIGNATURE TYPE, AND SIGNATURE WIDTH OF ALL MAGNETOMETER HITS SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO EXCAVATION.
7. THE CONTRACTOR IS RESPONSIBLE FOR CONTAINING ALL HYDRAULICALLY DREDGED MATERIAL WITHIN THE BOUNDARIES OF THE MARSH CREATION AREA.
8. BACKGROUND IMAGERY WAS TAKEN IN 2016.
9. THE PIPELINE AND UTILITY LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE. PIPELINES LOCATED WITHIN 150' OF THE WORK SHALL BE MARKED BY THE CONTRACTOR. THE CONTRACTOR SHALL MAINTAIN BUOYS DURING CONSTRUCTION AND HAVE ADEQUATE NAVIGATIONAL EQUIPMENT ON THE DREDGE TO AVOID DREDGING IN RESTRICTED AREAS.

NOTIFICATIONS:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE FOLLOWING PIPELINE AND UTILITY OPERATORS AT LEAST FIVE (5) WORKING DAYS IN ADVANCE OF THE WORK. CALL LOUISIANA ONE CALL AT 1-800-272-3020 5 DAYS PRIOR TO ANY EXCAVATION AND/OR DREDGING TO LOCATE ALL PIPELINES OR UTILITIES.

CHEVRON USA, INC.
CONTACT: TODD DORE
PHONE: (985) 773-6389

ARROWHEAD/HARVEST PIPELINE
CONTACT: ANTHONY ARELLANO
PHONE: (504) 912-4426

LOOP, LLC
CONTACT: CINDY GARDNER-LEBLANC
PHONE: (985) 276-6299

XTO OFFSHORE, INC./XTO ENERGY, INC.
CONTACT: DAVID DUFOUR
PHONE: (817) 870-2800
EMAIL: DAVID_DUFOUR@XTOENERGY.COM

TRANSCANADA/ANR PIPELINE CO.
RICARDO "RICK" LOPEZ
PHONE: (337) 266-4695
EMAIL: RICARDO_LOPEZ@TRANSCANADA.COM

2. THE CONTRACTOR SHALL NOTIFY THE LANDOWNERS LISTED BELOW AT LEAST FIVE (5) WORKING DAYS PRIOR TO PERFORMING THE WORK.

EDWARD WISNER DONATION CO.
CONTACT: AMANDA PHILIPS
PHONE: (504) 210-1152

CAILLOUET LAND, LLC
CONTACT: JAY CAILLOUET
PHONE: (985) 665-2123

LOUISIANA DEPARTMENT OF WILDLIFE & FISHERIES
CONTACT: JULIA LIGHTNER
PHONE: (504) 286-4041

DESIGN NOTES:

1. ALL ELEVATIONS ARE GIVEN IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) U.S. SURVEY FEET. ALL HORIZONTAL COORDINATES ARE GIVEN IN THE NORTH AMERICAN DATUM OF 1983 (NAD 83, LOUISIANA STATE PLANE SOUTH ZONE U.S. FEET). ALL ELEVATIONS ARE BASED ON THE FOLLOWING:

SECONDARY SURVEY MONUMENT	ELEVATION	NORTHING	EASTING	GEOID
CRMSBA-SM-19	2.45'	250,130.9	3,674,132.84	12A

2. THE EXISTING ELEVATIONS SHOWN ON THE PLANS ARE BASED ON THE SURVEYS PERFORMED FROM MAY 2015 THROUGH JULY 2015 BY MORRIS P. HEBERT AND FROM FEBRUARY 2017 THROUGH MARCH 2017 BY HYDROTERRA TECHNOLOGIES FOR THE CPRA. ELEVATIONS ARE REFERENCED TO NAVD88, US FEET, GEOID 12A.
3. DATA FROM STATION CRMS0292 WAS USED TO CALCULATE THE MHW AND MLW. ELEVATIONS ARE REFERENCED TO NAVD 88, US FEET, GEOID 12A. MHW = +0.84' AND MLW = -0.59'
4. A GEOTECHNICAL INVESTIGATION WAS PERFORMED ON THE BORROW AREA BY EUSTIS ENGINEERING IN JANUARY 2015 AND BY ARDAMAN AND ASSOCIATES IN AUGUST 2017 AND ON THE MARSH CREATION AREA BY GEOENGINEERS IN MAY 2015 AND BY ARDAMAN AND ASSOCIATES IN AUGUST 2017. THE BORING LOCATIONS ARE SHOWN ON THE PLANS. THE GEOTECHNICAL INVESTIGATION REPORT IS PROVIDED IN THE APPENDICIES OF THE SPECIFICATIONS.

ENVIRONMENTAL NOTES:

1. THE CONTRACTOR SHALL COMPLY WITH THE SPECIAL PROVISION FOR NESTING BIRDS AND ANY OTHER ENVIRONMENTAL REQUIREMENTS IN THE SPECIFICATIONS.

SUMMARY OF ESTIMATED QUANTITIES

BASE BID

ITEM No.	DESCRIPTION	UNIT	ESTIMATED QUANTITY[1]
1	HYDRAULIC DREDGE MOBILIZATION AND DEMOBILIZATION (TS-100)	LUMP SUM	1
2	DREDGE PIPELINE MOBILIZATION, INSTALL, & DEMOBILIZATION (TS-101)	LUMP SUM	1
3	GENERAL MOBILIZATION & DEMOBILIZATION (TS-102)	LUMP SUM	1
4	SURVEYS (TS-210)	LUMP SUM	1
5	DAILY BIRD ABATEMENT (TS-211)	DAY	226
6	GRADE STAKES (TS-220)	EACH	50
7	INSTRUMENTED SETTLEMENT PLATES (TS-251)	EACH	17
8	EARTHEN CONTAINMENT DIKES (TS-300)	LINEAR FOOT	50,790
9	PRIORITY EARTHEN DIKE (TS-301)	LUMP SUM	1
10	HYDRAULIC DREDGING AND MARSH FILL (TS-400)	CUBIC YARD	2,624,810

1. THE QUANTITIES SHOWN WERE CALCULATED ACCORDING TO CONDITIONS SURVEYED FROM MAY 2015 THROUGH JULY 2015 AND FROM FEBRUARY 2017 THROUGH MARCH 2017. THE OWNER RESERVES THE RIGHT TO ADJUST QUANTITIES 25% HIGHER OR LOWER WITHOUT ADJUSTMENT OF THE UNIT PRICE.
2. QUANTITY IS BASED ON THE BORROW AREA CUT VOLUMES. PAYMENT QUANTITY WILL BE BASED ON PROCESS SURVEYS OF THE BORROW AREA.

ACRONYMS & ABBREVIATIONS:

BA	BORROW AREA	INC	INCREMENT
CMF	CONSTRUCTED MARSH FILL	ISP	INSTRUMENTED SETTLEMENT PLATE
CPT	CONE PENETRATION TEST	LF	LINEAR FOOT
CY	CUBIC YARD	LS	LUMP SUM
DPC	DREDGE PIPE CORRIDOR	MCA	MARSH CREATION AREA
EAC	EQUIPMENT ACCESS CORRIDOR	MNA	MARSH NOURISHMENT AREA
ECD	EARTHEN CONTAINMENT DIKE	PL	PIPELINE
EL	ELEVATION	SF	SQUARE FOOT
FT	FOOT	TS	TEMPORARY SPOIL

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150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

GENERAL NOTES

DESIGNED BY: A. TAYLOR, P.E. 041999
APPROVED BY: S. HAYNES, P.E.

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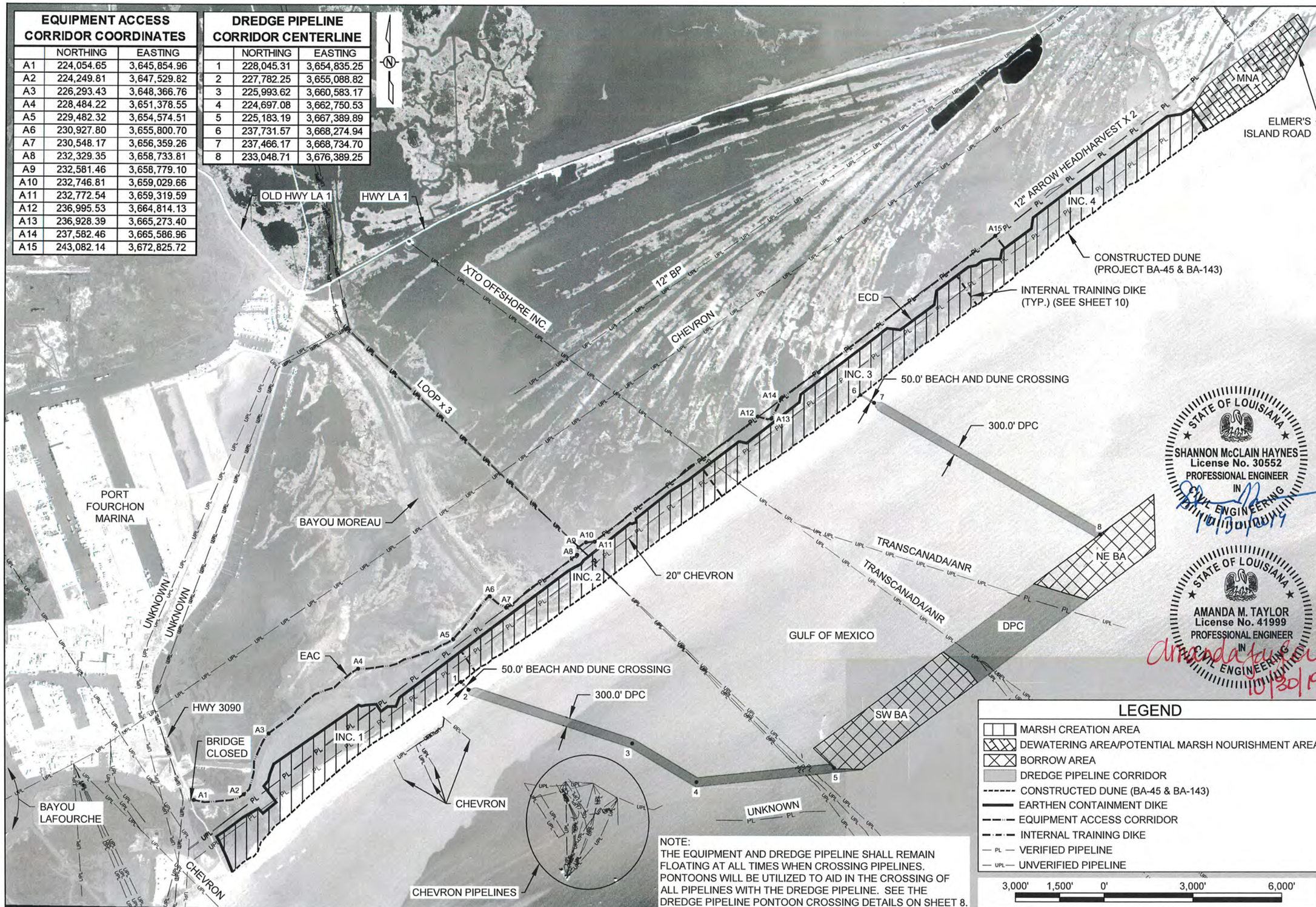
DRAWN BY: K. CANTU

DATE: OCT. 2019

EQUIPMENT ACCESS CORRIDOR COORDINATES		
	NORTHING	EASTING
A1	224,054.65	3,645,854.96
A2	224,249.81	3,647,529.82
A3	226,293.43	3,648,366.76
A4	228,484.22	3,651,378.55
A5	229,482.32	3,654,574.51
A6	230,927.80	3,655,800.70
A7	230,548.17	3,656,359.26
A8	232,329.35	3,658,733.81
A9	232,581.46	3,658,779.10
A10	232,746.81	3,659,029.66
A11	232,772.54	3,659,319.59
A12	236,995.53	3,664,814.13
A13	236,928.39	3,665,273.40
A14	237,582.46	3,665,586.96
A15	243,082.14	3,672,825.72

DREDGE PIPELINE CORRIDOR CENTERLINE		
	NORTHING	EASTING
1	228,045.31	3,654,835.25
2	227,782.25	3,655,088.82
3	225,993.62	3,660,583.17
4	224,697.08	3,662,750.53
5	225,183.19	3,667,389.89
6	237,731.57	3,668,274.94
7	237,466.17	3,668,734.70
8	233,048.71	3,676,389.25



NOTE:
THE EQUIPMENT AND DREDGE PIPELINE SHALL REMAIN FLOATING AT ALL TIMES WHEN CROSSING PIPELINES. PONTOONS WILL BE UTILIZED TO AID IN THE CROSSING OF ALL PIPELINES WITH THE DREDGE PIPELINE. SEE THE DREDGE PIPELINE PONTOON CROSSING DETAILS ON SHEET 8.

LEGEND

- MARSH CREATION AREA
- DEWATERING AREA/POTENTIAL MARSH NOURISHMENT AREA
- BORROW AREA
- DREDGE PIPELINE CORRIDOR
- CONSTRUCTED DUNE (BA-45 & BA-143)
- EARTHEN CONTAINMENT DIKE
- EQUIPMENT ACCESS CORRIDOR
- INTERNAL TRAINING DIKE
- PL — VERIFIED PIPELINE
- UPL — UNVERIFIED PIPELINE

3,000' 1,500' 0' 3,000' 6,000'

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PROJECT LAYOUT

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APPROVED BY: S. HAYNES, P.E.

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT

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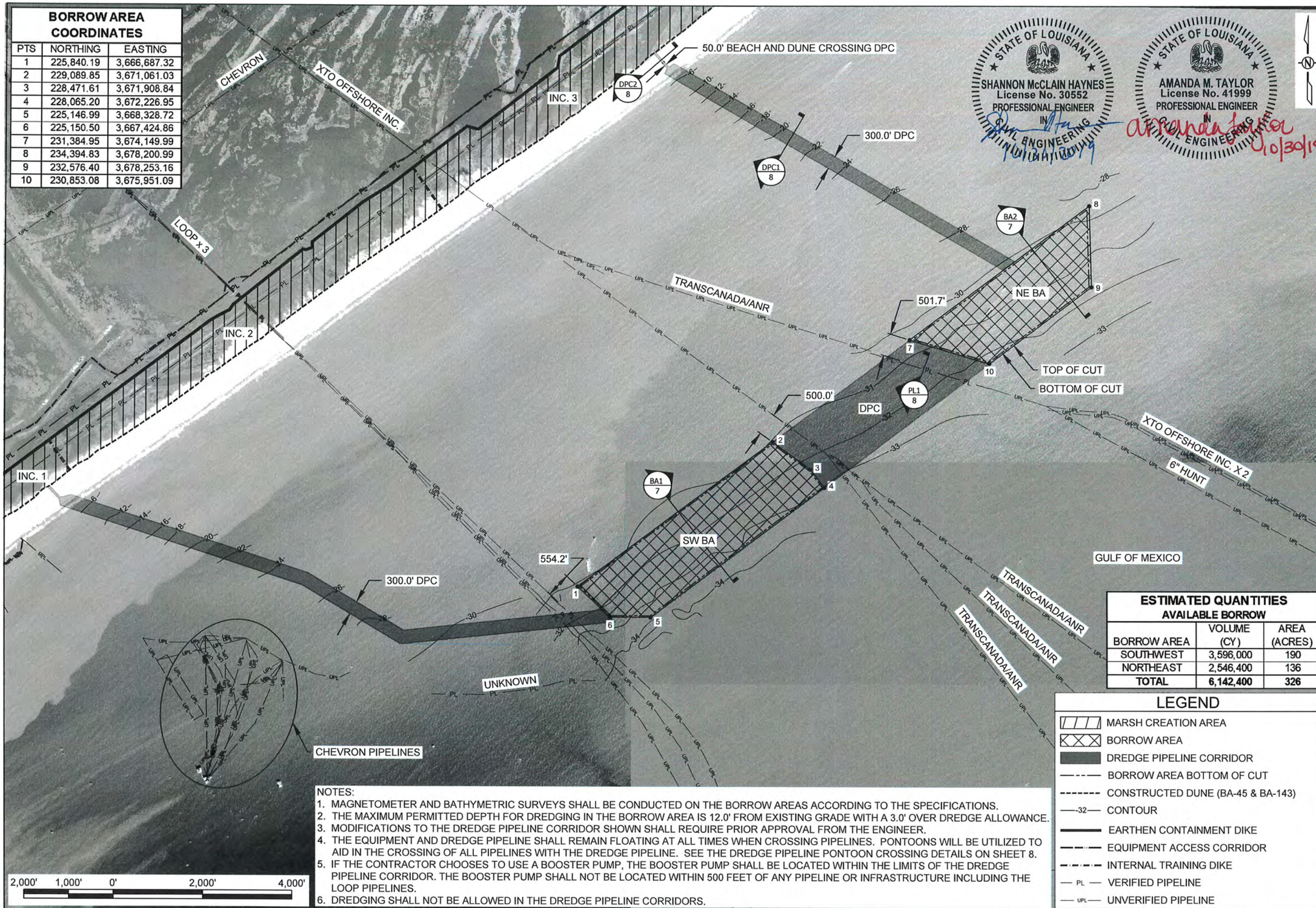
DATE: OCT. 2019

SHEET 3 OF 53

BORROW AREA COORDINATES

PTS	NORTHING	EASTING
1	225,840.19	3,666,687.32
2	229,089.85	3,671,061.03
3	228,471.61	3,671,908.84
4	228,065.20	3,672,226.95
5	225,146.99	3,668,328.72
6	225,150.50	3,667,424.86
7	231,384.95	3,674,149.99
8	234,394.83	3,678,200.99
9	232,576.40	3,678,253.16
10	230,853.08	3,675,951.09



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ESTIMATED QUANTITIES
AVAILABLE BORROW

BORROW AREA	VOLUME (CY)	AREA (ACRES)
SOUTHWEST	3,596,000	190
NORTHEAST	2,546,400	136
TOTAL	**6,142,400**	**326**

LEGEND

- MARSH CREATION AREA
- BORROW AREA
- DREDGE PIPELINE CORRIDOR
- BORROW AREA BOTTOM OF CUT
- CONSTRUCTED DUNE (BA-45 & BA-143)
- -32- CONTOUR
- EARTHEN CONTAINMENT DIKE
- EQUIPMENT ACCESS CORRIDOR
- INTERNAL TRAINING DIKE
- PL VERIFIED PIPELINE
- UPL UNVERIFIED PIPELINE

NOTES:
1. MAGNETOMETER AND BATHYMETRIC SURVEYS SHALL BE CONDUCTED ON THE BORROW AREAS ACCORDING TO THE SPECIFICATIONS.
2. THE MAXIMUM PERMITTED DEPTH FOR DREDGING IN THE BORROW AREA IS 12.0' FROM EXISTING GRADE WITH A 3.0' OVER DREDGE ALLOWANCE.
3. MODIFICATIONS TO THE DREDGE PIPELINE CORRIDOR SHOWN SHALL REQUIRE PRIOR APPROVAL FROM THE ENGINEER.
4. THE EQUIPMENT AND DREDGE PIPELINE SHALL REMAIN FLOATING AT ALL TIMES WHEN CROSSING PIPELINES. PONTOONS WILL BE UTILIZED TO AID IN THE CROSSING OF ALL PIPELINES WITH THE DREDGE PIPELINE. SEE THE DREDGE PIPELINE PONTOON CROSSING DETAILS ON SHEET 8.
5. IF THE CONTRACTOR CHOOSES TO USE A BOOSTER PUMP, THE BOOSTER PUMP SHALL BE LOCATED WITHIN THE LIMITS OF THE DREDGE PIPELINE CORRIDOR. THE BOOSTER PUMP SHALL NOT BE LOCATED WITHIN 500 FEET OF ANY PIPELINE OR INFRASTRUCTURE INCLUDING THE LOOP PIPELINES.
6. DREDGING SHALL NOT BE ALLOWED IN THE DREDGE PIPELINE CORRIDORS.

REV.	DATE	DESCRIPTION	BY

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150 TERRACE AVENUE
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BORROW AREA LAYOUT

DESIGNED BY: A. TAYLOR, P.E. 041999
APPROVED BY: S. HAYNES, P.E.

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT

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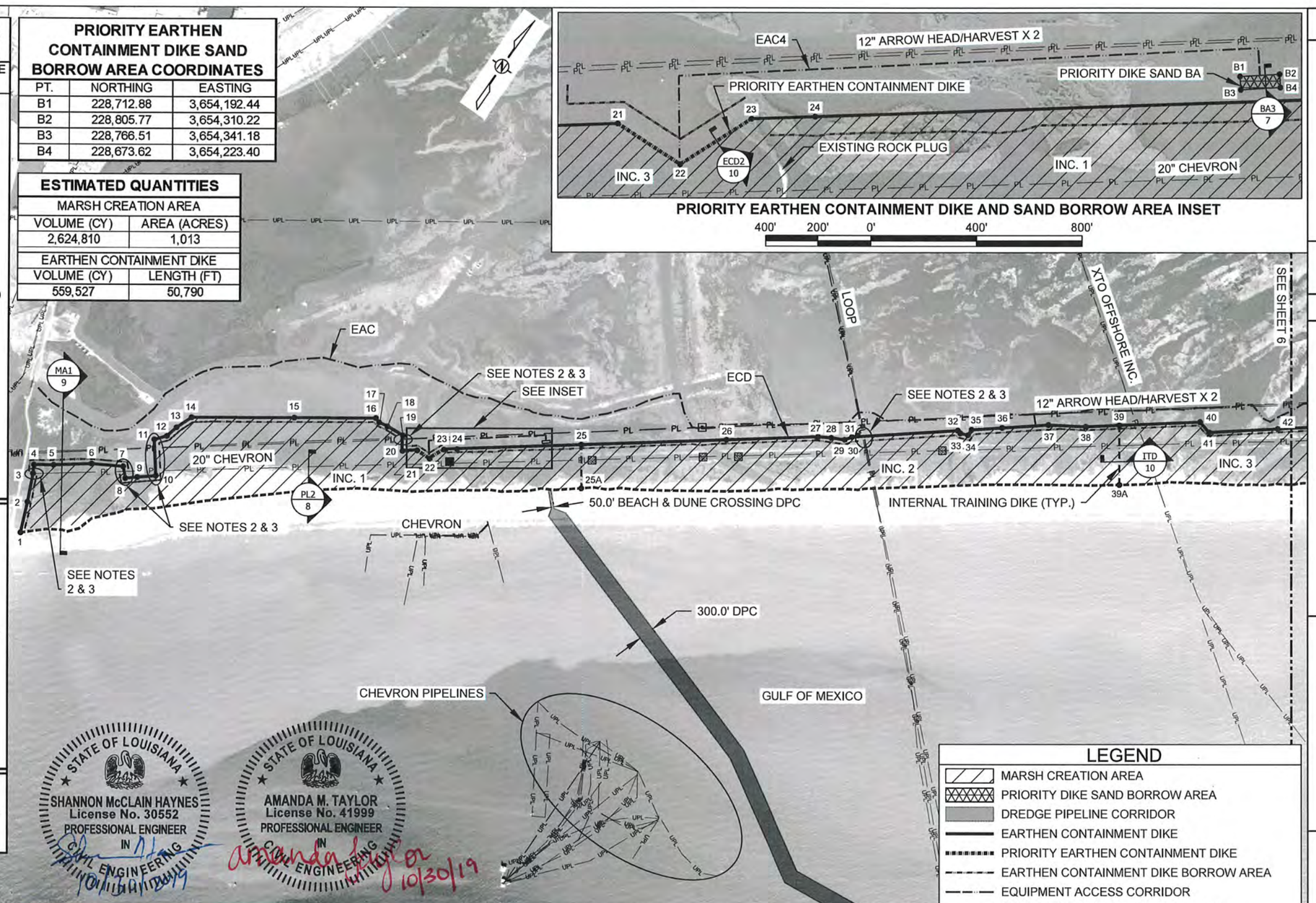
DATE: OCT. 2019

SHEET 4 OF 53

EARTHEN CONTAINMENT DIKE CENTERLINE COORDINATES			ESTIMATED INCREMENT MARSH FILL	
PT.	NORTHING	EASTING	INC.	VOLUME (CY)
1	221,636.87	3,647,154.37		
2	222,183.92	3,646,929.56		
3	222,682.07	3,646,704.31		
4	222,827.04	3,646,622.19		
5	223,038.13	3,646,927.50		
6	223,471.29	3,647,500.00		
7	223,772.91	3,648,017.47		
8	223,614.04	3,648,176.35		
9	223,759.56	3,648,350.41		
10	223,984.58	3,648,619.58		
11	224,526.85	3,648,201.79		
12	224,715.60	3,648,359.03		
13	224,951.68	3,648,413.36		
14	225,269.92	3,648,534.94	1	905,330
15	226,378.73	3,650,124.83		
16	227,261.36	3,651,390.40		
17	227,230.92	3,651,489.86		
18	227,261.41	3,651,643.53		
19	227,289.25	3,651,982.25		
20	227,048.58	3,652,143.20		
21	227,213.22	3,652,361.85		
22	227,221.96	3,652,642.23		
23	227,517.11	3,652,765.44		
24	227,664.01	3,652,960.54		
25	229,080.83	3,654,842.18		
25A	228,407.88	3,655,313.39		
25A	228,407.88	3,655,313.39		
25	229,080.83	3,654,842.18		
26	230,726.36	3,657,027.57		
27	231,779.25	3,658,425.89		
28	231,905.96	3,658,640.24		
29	232,019.89	3,658,866.45		
30	232,143.73	3,658,951.14		
31	232,229.94	3,659,024.44		
32	233,389.27	3,660,516.66	2	500,960
33	233,374.94	3,660,582.33		
34	233,428.19	3,660,722.39		
35	233,552.29	3,660,721.55		
36	233,913.92	3,661,176.09		
37	234,461.58	3,661,864.44		
38	234,838.89	3,662,459.65		
39	235,228.21	3,662,969.38		
39A	234,310.89	3,663,611.69		
39A	234,310.89	3,663,611.69		
39	235,228.21	3,662,969.38		
40	236,158.98	3,664,188.06	3	666,330
41	236,098.01	3,664,441.20		
42	236,897.94	3,665,468.28		

PRIORITY EARTHEN CONTAINMENT DIKE SAND BORROW AREA COORDINATES		
PT.	NORTHING	EASTING
B1	228,712.88	3,654,192.44
B2	228,805.77	3,654,310.22
B3	228,766.51	3,654,341.18
B4	228,673.62	3,654,223.40

ESTIMATED QUANTITIES	
MARSH CREATION AREA	
VOLUME (CY)	AREA (ACRES)
2,624,810	1,013
EARTHEN CONTAINMENT DIKE	
VOLUME (CY)	LENGTH (FT)
559,527	50,790



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NOTES:

1. MODIFICATIONS TO THE DREDGE PIPELINE CORRIDOR SHOWN SHALL REQUIRE PRIOR APPROVAL FROM ENGINEER.
2. THE EQUIPMENT AND DREDGE PIPELINE SHALL REMAIN FLOATING AT ALL TIMES WHEN CROSSING PIPELINES. PONTOONS WILL BE UTILIZED TO AID IN THE CROSSING OF ALL PIPELINES WITH THE DREDGE PIPELINE. SEE THE DREDGE PIPELINE PONTOON CROSSING DETAILS ON SHEET 8.
3. THE CONTRACTOR SHALL NOT EXCAVATE FOR IN-SITU CONTAINMENT WITHIN 100' OF THE LOOP PIPELINES AND WITHIN 50' OF ALL OTHER PIPELINES. THE CONTRACTOR SHALL SUBMIT THE WORK SEQUENCE IN THESE AREAS IN THE WORK PLAN PRIOR TO THE EARTHEN CONTAINMENT DIKE CONSTRUCTION.
4. THE CONTRACTOR SHALL CONSTRUCT INTERNAL TRAINING DIKES AS SHOWN ON THE PLANS AND AS DEEMED NECESSARY BY THE CONTRACTOR. THE GEOMETRY OF THE INTERNAL TRAINING DIKES SHALL BE CONSISTENT WITH THE DETAIL ON SHEET 10.
5. PLACEMENT OF SLURRY SHALL PROGRESS IN AN EASTERLY DIRECTION FROM INCREMENT 1 TO INCREMENT 4.
6. THE DREDGE PIPELINE TRUNK LINE SHALL BE LOCATED IN BETWEEN THE DUNE AND CHEVRON PIPELINE WITHIN THE MARSH CREATION AREA.
7. THE PIPELINE INFORMATION SHOWN ON THE PLANS IS APPROXIMATE. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS PRIOR TO THE BEGINNING CONSTRUCTION.
8. SECONDARY WEIRS MAY BE INSTALLED ALONG THE NORTHERN DIKE. SECONDARY WEIRS SHALL NOT BE INSTALLED ALONG THE WESTERN DIKE OR EXISTING DUNE.

REV.	DATE	DESCRIPTION	BY

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150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

MARSH CREATION AREA LAYOUT

DESIGNED BY: A. TAYLOR, P.E. 041999
APPROVED BY: S. HAYNES, P.E.

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT

STATE PROJECT NUMBER: BA-0171
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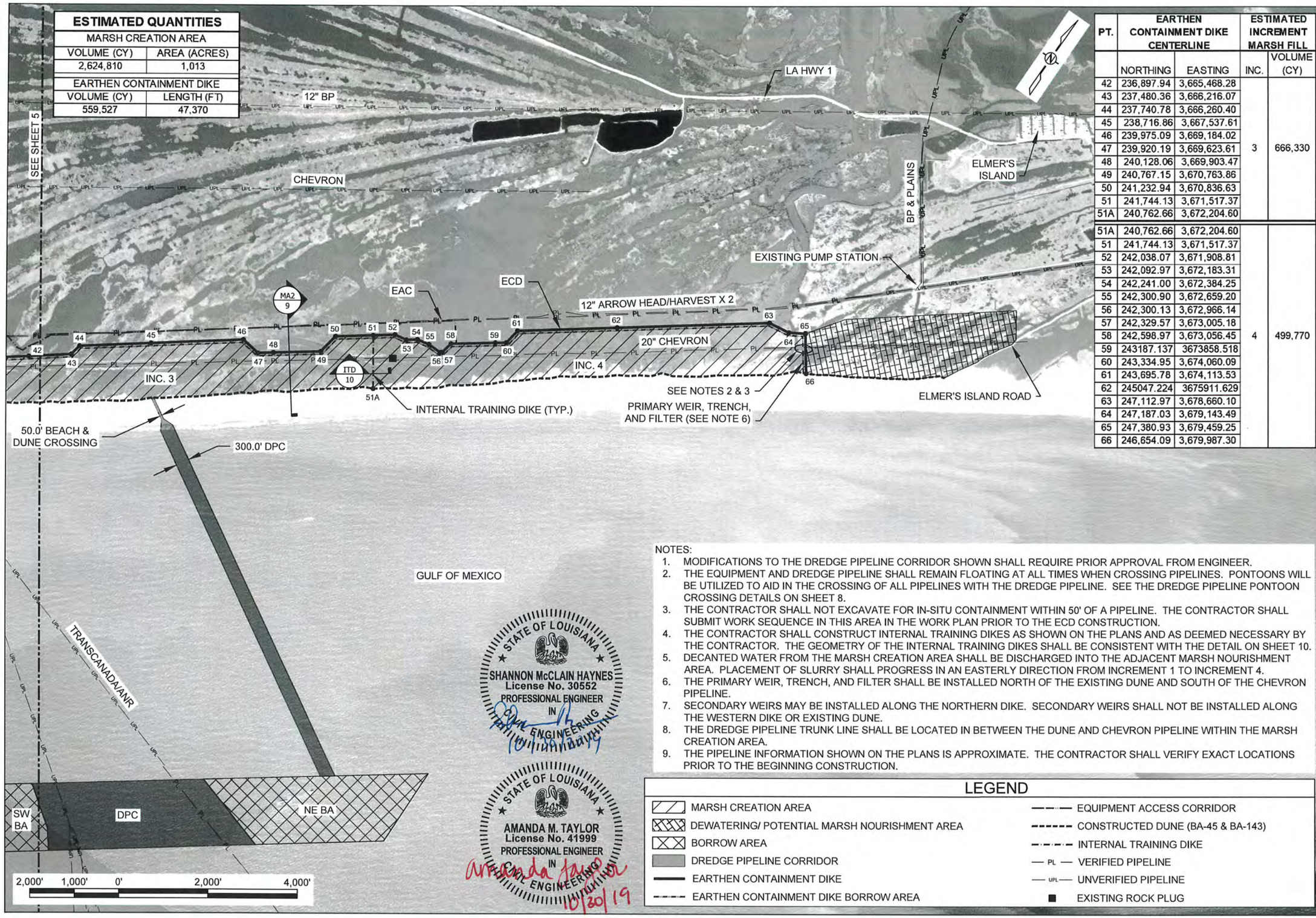
DATE: OCT. 2019

SHEET 5 OF 53



ESTIMATED QUANTITIES

MARSH CREATION AREA	
VOLUME (CY)	AREA (ACRES)
2,624,810	1,013
EARTHEN CONTAINMENT DIKE	
VOLUME (CY)	LENGTH (FT)
559,527	47,370

PT.	EARTHEN CONTAINMENT DIKE CENTERLINE		ESTIMATED INCREMENT MARSH FILL	
	NORTHING	EASTING	INC.	VOLUME (CY)
42	236,897.94	3,665,468.28	3	666,330
43	237,480.36	3,666,216.07		
44	237,740.78	3,666,260.40		
45	238,716.86	3,667,537.61		
46	239,975.09	3,669,184.02		
47	239,920.19	3,669,623.61		
48	240,128.06	3,669,903.47		
49	240,767.15	3,670,763.86		
50	241,232.94	3,670,836.63		
51	241,744.13	3,671,517.37		
51A	240,762.66	3,672,204.60		
51A	240,762.66	3,672,204.60	4	499,770
51	241,744.13	3,671,517.37		
52	242,038.07	3,671,908.81		
53	242,092.97	3,672,183.31		
54	242,241.00	3,672,384.25		
55	242,300.90	3,672,659.20		
56	242,300.13	3,672,966.14		
57	242,329.57	3,673,005.18		
58	242,598.97	3,673,056.45		
59	243187.137	3673858.518		
60	243,334.95	3,674,060.09		
61	243,695.78	3,674,113.53		
62	245047.224	3675911.629		
63	247,112.97	3,678,660.10		
64	247,187.03	3,679,143.49		
65	247,380.93	3,679,459.25		
66	246,654.09	3,679,987.30		

NOTES:

1. MODIFICATIONS TO THE DREDGE PIPELINE CORRIDOR SHOWN SHALL REQUIRE PRIOR APPROVAL FROM ENGINEER.
2. THE EQUIPMENT AND DREDGE PIPELINE SHALL REMAIN FLOATING AT ALL TIMES WHEN CROSSING PIPELINES. PONTOONS WILL BE UTILIZED TO AID IN THE CROSSING OF ALL PIPELINES WITH THE DREDGE PIPELINE. SEE THE DREDGE PIPELINE PONTOON CROSSING DETAILS ON SHEET 8.
3. THE CONTRACTOR SHALL NOT EXCAVATE FOR IN-SITU CONTAINMENT WITHIN 50' OF A PIPELINE. THE CONTRACTOR SHALL SUBMIT WORK SEQUENCE IN THIS AREA IN THE WORK PLAN PRIOR TO THE ECD CONSTRUCTION.
4. THE CONTRACTOR SHALL CONSTRUCT INTERNAL TRAINING DIKES AS SHOWN ON THE PLANS AND AS DEEMED NECESSARY BY THE CONTRACTOR. THE GEOMETRY OF THE INTERNAL TRAINING DIKES SHALL BE CONSISTENT WITH THE DETAIL ON SHEET 10.
5. DECANTED WATER FROM THE MARSH CREATION AREA SHALL BE DISCHARGED INTO THE ADJACENT MARSH NOURISHMENT AREA. PLACEMENT OF SLURRY SHALL PROGRESS IN AN EASTERLY DIRECTION FROM INCREMENT 1 TO INCREMENT 4.
6. THE PRIMARY WEIR, TRENCH, AND FILTER SHALL BE INSTALLED NORTH OF THE EXISTING DUNE AND SOUTH OF THE CHEVRON PIPELINE.
7. SECONDARY WEIRS MAY BE INSTALLED ALONG THE NORTHERN DIKE. SECONDARY WEIRS SHALL NOT BE INSTALLED ALONG THE WESTERN DIKE OR EXISTING DUNE.
8. THE DREDGE PIPELINE TRUNK LINE SHALL BE LOCATED IN BETWEEN THE DUNE AND CHEVRON PIPELINE WITHIN THE MARSH CREATION AREA.
9. THE PIPELINE INFORMATION SHOWN ON THE PLANS IS APPROXIMATE. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS PRIOR TO THE BEGINNING CONSTRUCTION.

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IN
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10/30/19

LEGEND

- MARSH CREATION AREA
- DEWATERING/ POTENTIAL MARSH NOURISHMENT AREA
- BORROW AREA
- DREDGE PIPELINE CORRIDOR
- EARTHEN CONTAINMENT DIKE
- EARTHEN CONTAINMENT DIKE BORROW AREA
- EQUIPMENT ACCESS CORRIDOR
- CONSTRUCTED DUNE (BA-45 & BA-143)
- INTERNAL TRAINING DIKE
- PL — VERIFIED PIPELINE
- UPL — UNVERIFIED PIPELINE
- EXISTING ROCK PLUG

REV.	DATE	DESCRIPTION	BY

COASTAL PROTECTION AND RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

MARSH CREATION AREA LAYOUT

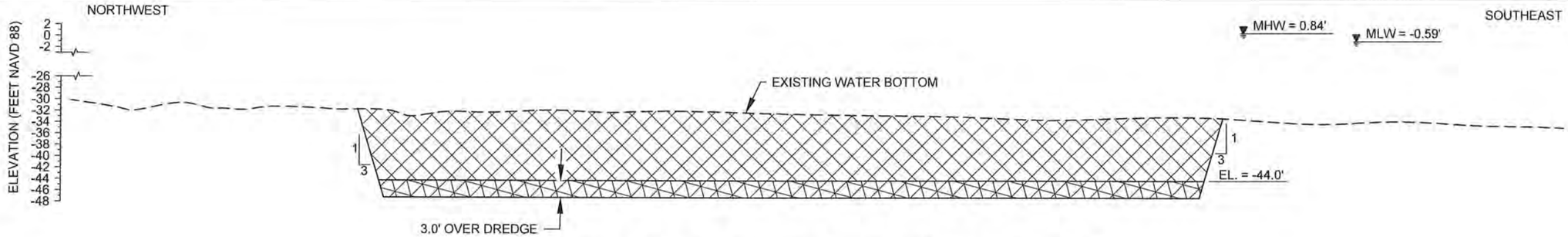
DESIGNED BY: A. TAYLOR, P.E.
APPROVED BY: S. HAYNES, P.E.

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT

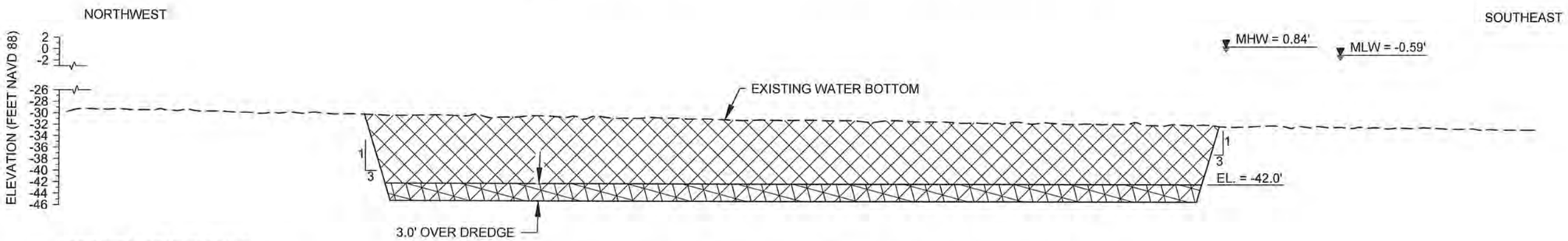
STATE PROJECT NUMBER: BA-0171
DRAWN BY: K. CANTU

DATE: OCT. 2019

SHEET 6 OF 53

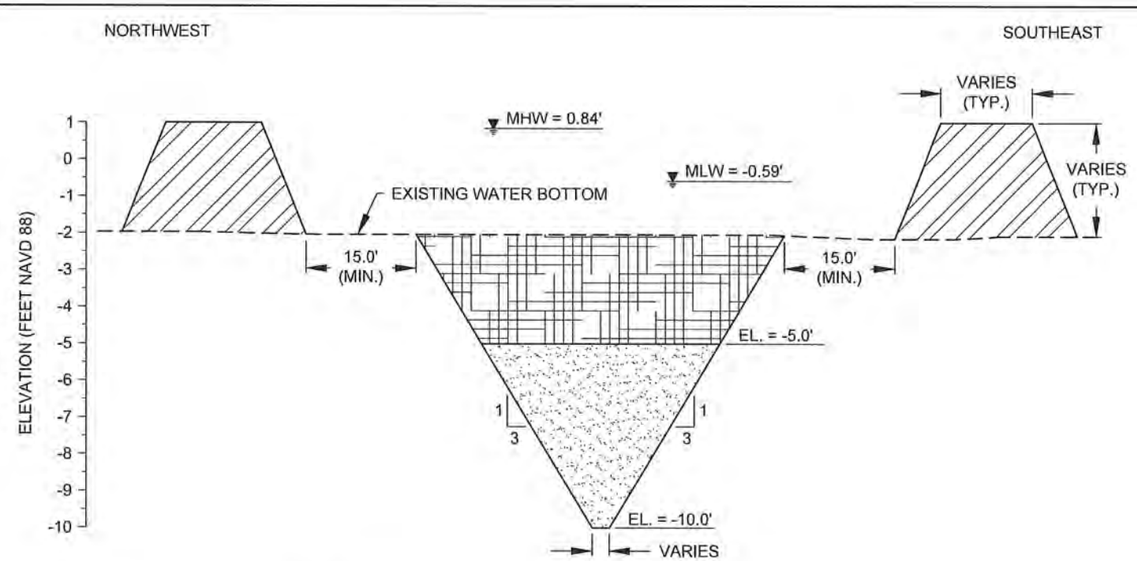


BA1 / 4 **TYPICAL SECTION - SOUTHWEST MARSH CREATION BORROW AREA**



BA2 / 4 **TYPICAL SECTION - NORTHEAST MARSH CREATION BORROW AREA**

HORIZONTAL GRAPHIC SCALE
200' 100' 0 200' 400'
20' 10' 0 20' 40'
VERTICAL GRAPHIC SCALE



BA3 / 5 **TYPICAL SECTION - PRIORITY DIKE BORROW AREA**

NOTES:
1. THE BORROW FOR THE PRIORITY DIKE SHALL BE OBTAINED FROM THE BORROW AREA SHOWN ON SHEET 5 OR AS DIRECTED BY THE ENGINEER.
2. THE OVERBURDEN SHALL BE RETURNED TO THE BORROW AREA AFTER THE REMOVAL OF SAND.

LEGEND

- BORROW AREA FOR MARSH CREATION FILL
- OVER DREDGE
- OVERBURDEN
- SAND FILL FOR PRIORITY DIKE
- TEMPORARY PLACEMENT FOR OVERBURDEN
- EXISTING WATER BOTTOM

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Amanda Taylor
10/30/19

HORIZONTAL GRAPHIC SCALE
20' 10' 0 20' 40'
4 2' 0 4' 8'
VERTICAL GRAPHIC SCALE

REV.	DATE	DESCRIPTION	BY

COASTAL PROTECTION AND RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

TYPICAL BORROW AREA SECTIONS

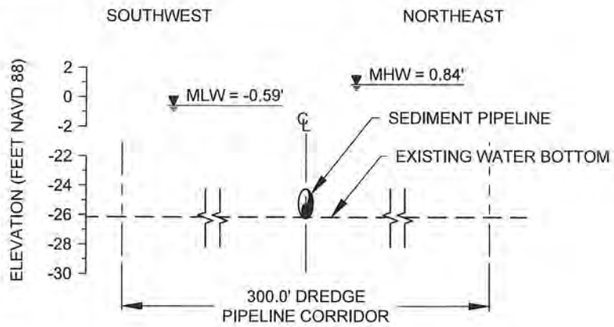
DESIGNED BY: A. TAYLOR, P.E. 041999
APPROVED BY: S. HAYNES, P.E.

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT

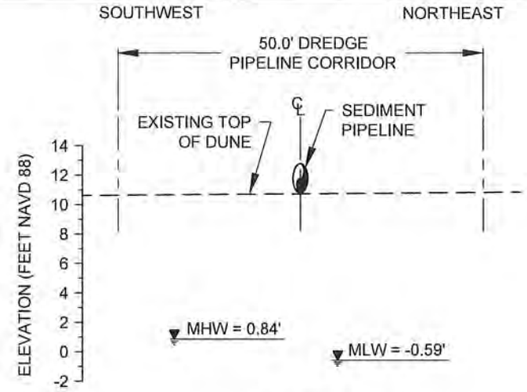
STATE PROJECT NUMBER: BA-0171
DRAWN BY: K. CANTU

DATE: OCT. 2019

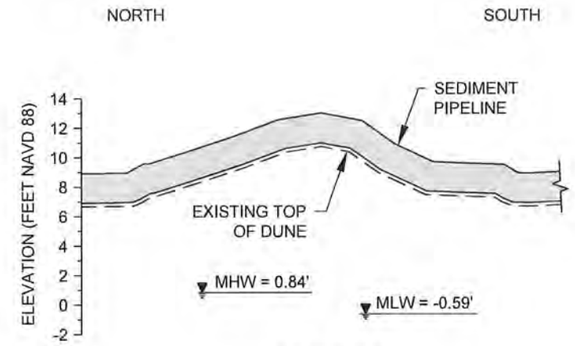
SHEET 7 OF 53



DPC1 / 4 **TYPICAL SECTION - OFFSHORE DREDGE PIPELINE CORRIDOR**

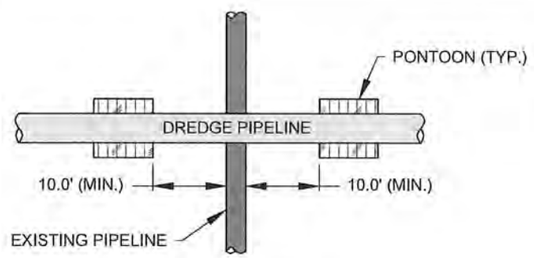


SECTION

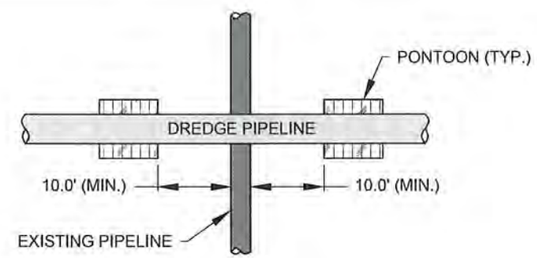


PROFILE

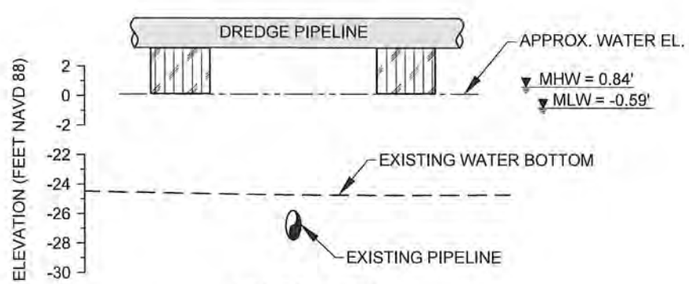
DPC2 / 4 **TYPICAL SECTION - BEACH AND DUNE DREDGE PIPELINE CORRIDOR**



PLAN VIEW

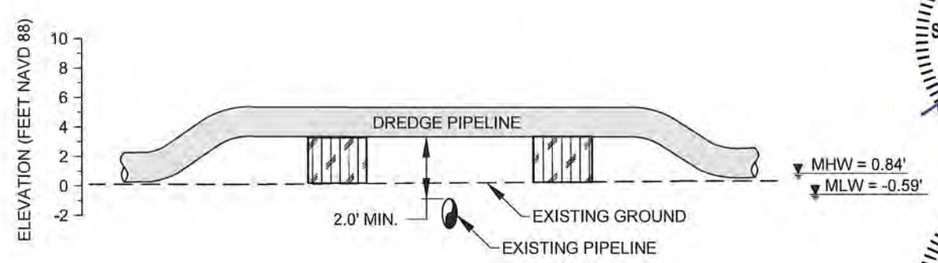


PLAN VIEW



SECTION VIEW

PL1 / 4 **TYPICAL SECTION OFFSHORE PIPELINE CROSSING**



SECTION VIEW

PL2 / 5 **TYPICAL SECTION MARSH PIPELINE CROSSING**

HORIZONTAL GRAPHIC SCALE
20' 10' 0 20' 40'
10' 5' 0 10' 20'
VERTICAL GRAPHIC SCALE

NOTE:
THE DREDGE PIPELINE SHALL REMAIN FLOATING AT ALL TIMES WHEN CROSSING PIPELINES WITH THE AID OF PONTOONS.

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LEGEND

- DREDGE PIPELINE
- PONTOON SUPPORT
- EXISTING GRADE
- APPROXIMATE WATER ELEVATION

REV.	DATE	DESCRIPTION	BY

COASTAL PROTECTION AND RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

TYPICAL DREDGE PIPELINE CORRIDOR AND PIPELINE CROSSING SECTIONS

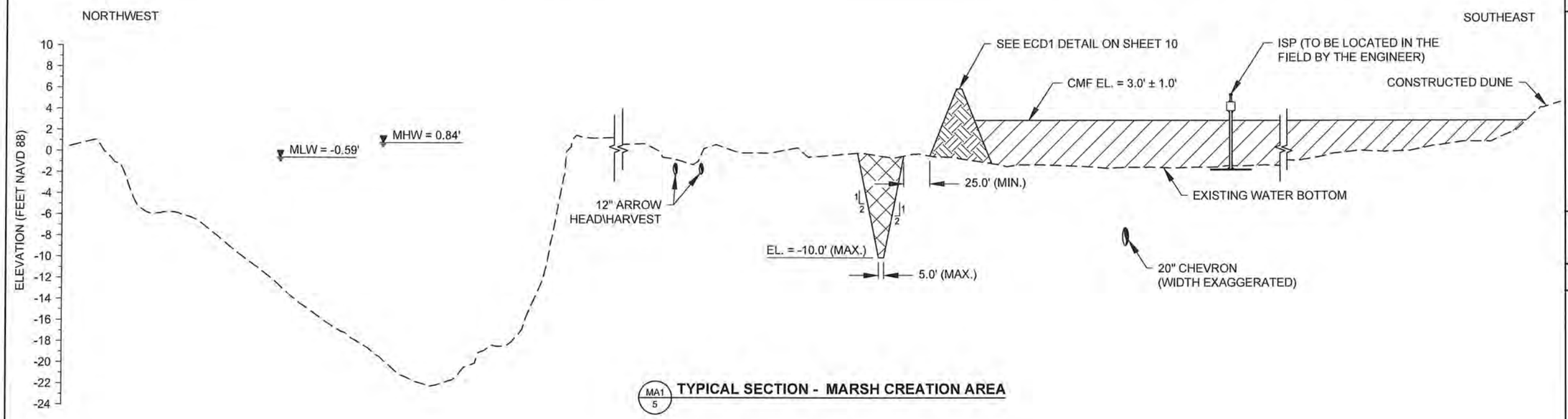
DESIGNED BY: A. TAYLOR, P.E. 041999
APPROVED BY: S. HAYNES, P.E.

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT

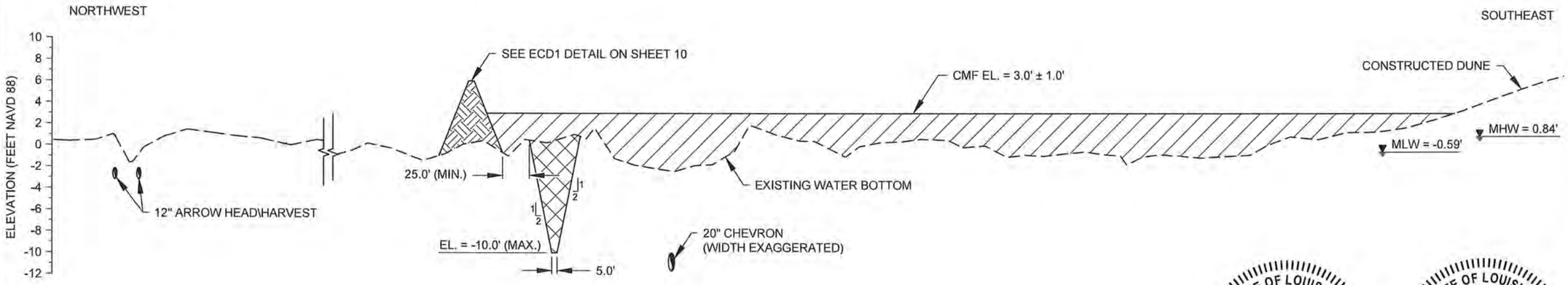
STATE PROJECT NUMBER BA-0171
DRAWN BY: K. CANTU

DATE: OCT. 2019

SHEET 8 OF 53



MA1 / 5 **TYPICAL SECTION - MARSH CREATION AREA**



MA2 / 6 **TYPICAL SECTION - MARSH CREATION AREA**

HORIZONTAL GRAPHIC SCALE
100' 50' 0 100' 200'
10' 5' 0 10' 20'
VERTICAL GRAPHIC SCALE

NOTES:
1. ENGINEER SHALL MONITOR THE INSTRUMENTED SETTLEMENT PLATES IN ORDER TO AID THE CONTRACTOR WITH ATTAINING THE CONTRACT QUANTITY. THE ENGINEER WILL INFORM THE CONTRACTOR WHEN THE OPTIMUM CMF ELEVATION HAS BEEN OBTAINED WITHIN THE TOLERANCE.

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10/30/19

LEGEND
- MARSH CREATION AREA
- EARTHEN CONTAINMENT DIKE
- EARTHEN CONTAINMENT DIKE BORROW AREA
- EXISTING WATER BOTTOM

REV.	DATE	DESCRIPTION	BY

COASTAL PROTECTION AND RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

TYPICAL MARSH CREATION AREA SECTIONS

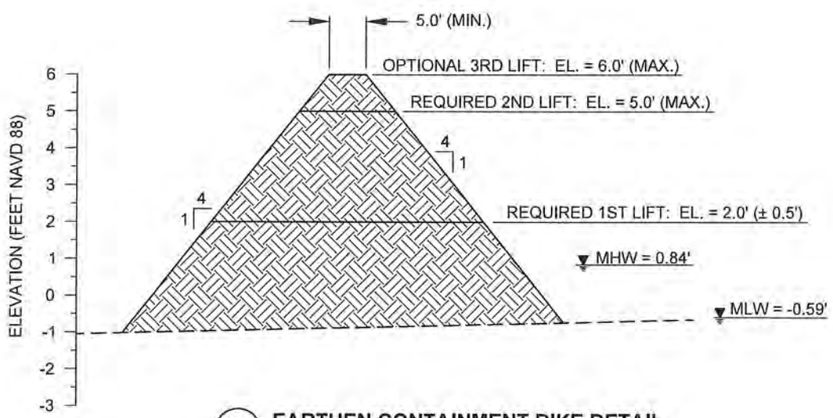
DESIGNED BY: A. TAYLOR, P.E. 041999
APPROVED BY: S. HAYNES, P.E.

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT

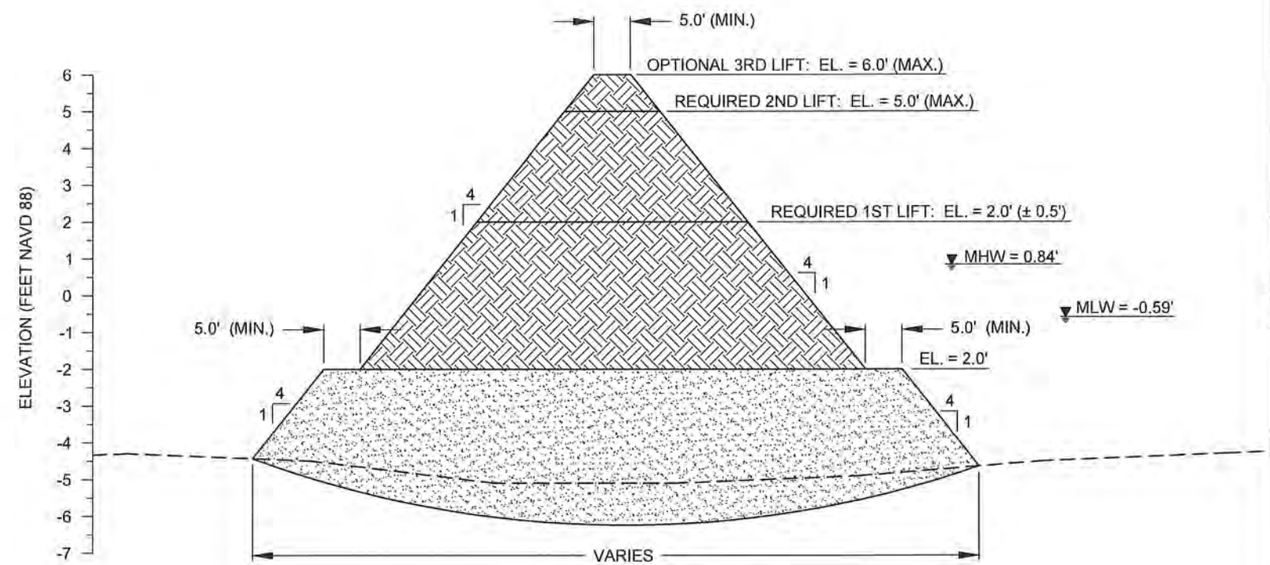
STATE PROJECT NUMBER: BA-0171
DRAWN BY: K. CANTU

DATE: OCT. 2019

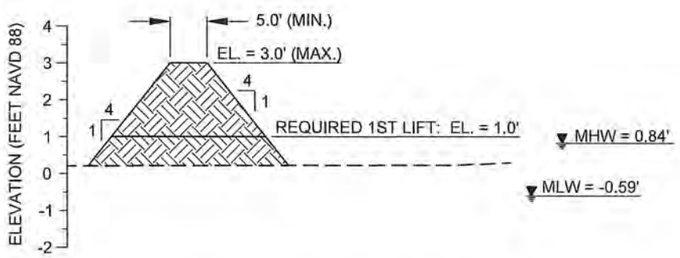
SHEET 9 OF 53



ECD1 / 9 **EARTHEN CONTAINMENT DIKE DETAIL**



ECD2 / 5 **PRIORITY EARTHEN CONTAINMENT DIKE DETAIL**



ITD / 5,6 **INTERNAL TRAINING DIKE DETAIL**

HORIZONTAL GRAPHIC SCALE
20' 10' 0 20' 40'
4' 2' 0 4' 8'
VERTICAL GRAPHIC SCALE

NOTES:
1. THERE SHALL BE A MINIMUM DELAY TIME OF 30 DAYS IN BETWEEN THE COMPLETION OF EACH LIFT AND CONSTRUCTION OF THE SUBSEQUENT LIFT UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
2. THE REQUIRED FIRST LIFT FOR THE PRIORITY EARTHEN CONTAINMENT DIKE CAN BE CONSTRUCTED IMMEDIATELY AFTER THE PLACEMENT OF SAND.
3. MODIFICATIONS TO THE INTERNAL TRAINING DIKE TEMPLATE SHALL BE PROVIDED IN THE WORK PLAN AND APPROVED BY THE ENGINEER.

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AMANDA M. TAYLOR
License No. 41999
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
10/30/19

LEGEND
- EARTHEN CONTAINMENT DIKE
- SAND
- EXISTING WATER BOTTOM

REV.	DATE	DESCRIPTION	BY

COASTAL PROTECTION AND RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

EARTHEN CONTAINMENT DIKE DETAILS

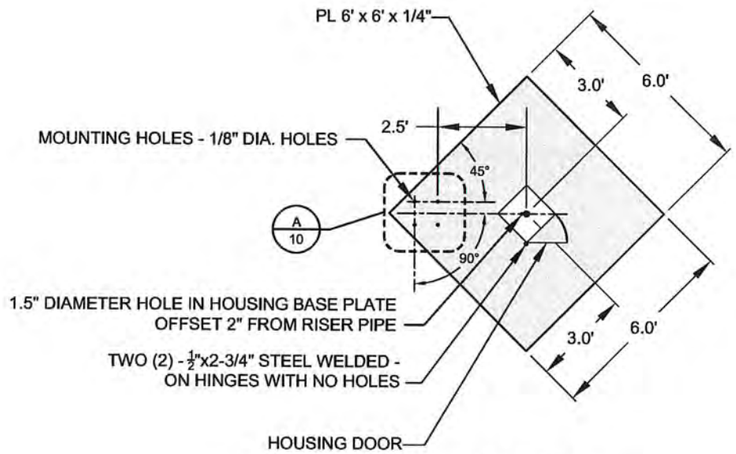
DESIGNED BY: A. TAYLOR, P.E. 041999
APPROVED BY: S. HAYNES, P.E.

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT

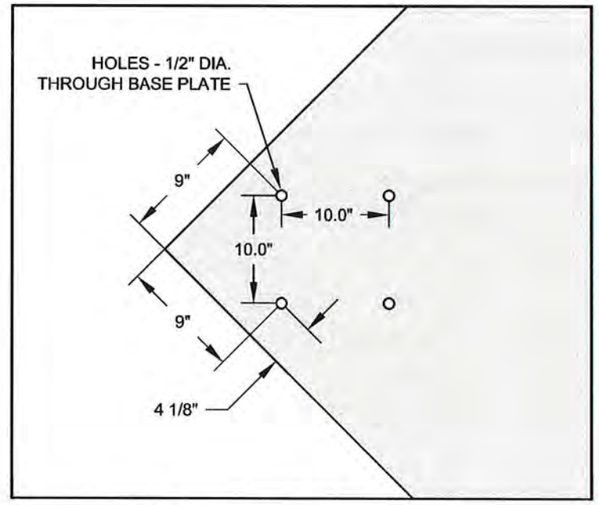
STATE PROJECT NUMBER: BA-0171
DRAWN BY: K. CANTU

DATE: OCT. 2019

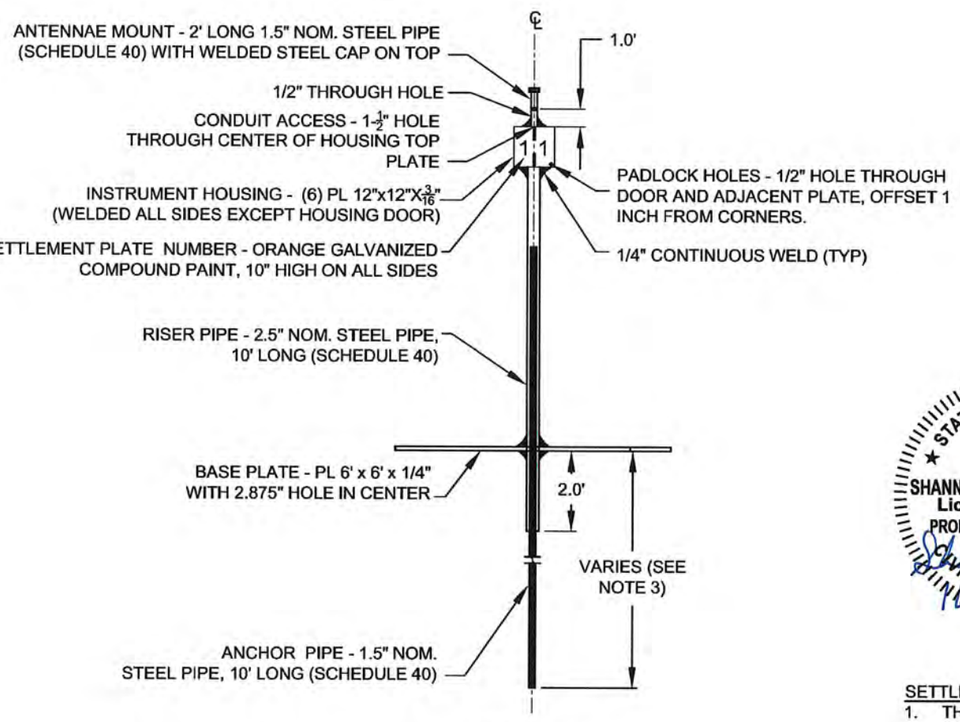
SHEET 10 OF 53



PLAN VIEW



A/10 **PRESSURE PLATE DETAIL**
NTS



PROFILE VIEW

INSTRUMENTED SETTLEMENT PLATE
NTS

STATE OF LOUISIANA
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10/30/19

STATE OF LOUISIANA
AMANDA M. TAYLOR
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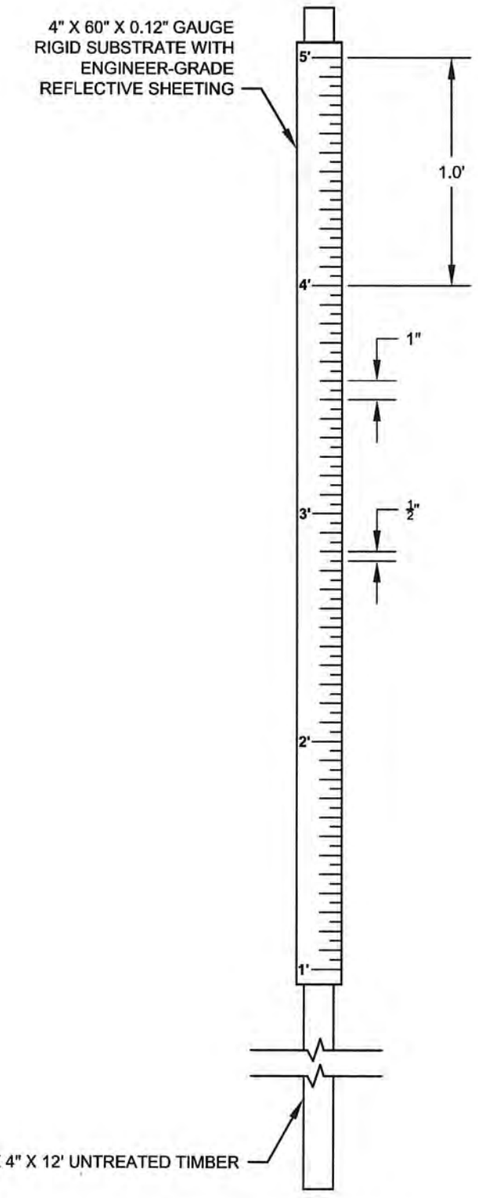
IN
CIVIL ENGINEERING
10/30/19

SETTLEMENT PLATE NOTES:

1. THE SETTLEMENT PLATES SHALL BE INSTALLED AT THE LOCATIONS SHOWN ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.
2. CPRA TO INSTALL INSTRUMENTATION ONTO THE SETTLEMENT PLATES IN THE FIELD WITH ASSISTANCE FROM THE CONTRACTOR.
3. DRIVEN DEPTH OF THE ANCHOR PIPE WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.



GRADE STAKE DETAIL
NTS

REV.	DATE	DESCRIPTION	BY

COASTAL PROTECTION AND RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

INSTRUMENTED SETTLEMENT PLATE AND GRADE STAKE DETAILS

DESIGNED BY: A. TAYLOR, P.E. 041999
APPROVED BY: S. HAYNES, P.E.

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT

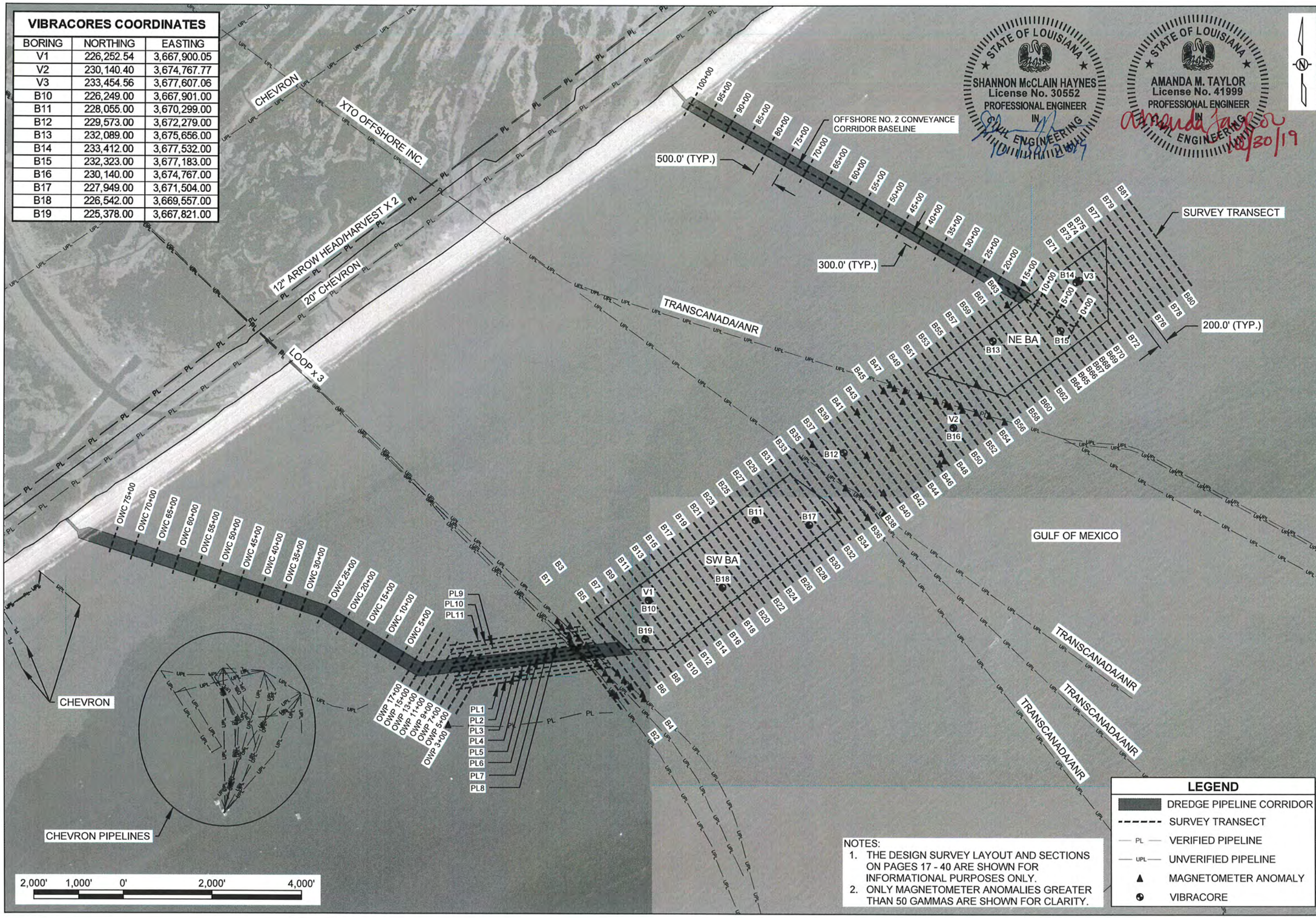
STATE PROJECT NUMBER: BA-0171
DRAWN BY: K. CANTU

DATE: OCT. 2019

SHEET 11 OF 53

VIBRACORES COORDINATES

BORING	NORTHING	EASTING
V1	226,252.54	3,667,900.05
V2	230,140.40	3,674,767.77
V3	233,454.56	3,677,607.06
B10	226,249.00	3,667,901.00
B11	228,055.00	3,670,299.00
B12	229,573.00	3,672,279.00
B13	232,089.00	3,675,656.00
B14	233,412.00	3,677,532.00
B15	232,323.00	3,677,183.00
B16	230,140.00	3,674,767.00
B17	227,949.00	3,671,504.00
B18	226,542.00	3,669,557.00
B19	225,378.00	3,667,821.00



NOTES:
1. THE DESIGN SURVEY LAYOUT AND SECTIONS ON PAGES 17 - 40 ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. ONLY MAGNETOMETER ANOMALIES GREATER THAN 50 GAMMAS ARE SHOWN FOR CLARITY.

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10/30/19

REV.	DATE	DESCRIPTION	BY

COASTAL PROTECTION AND RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

BORROW AREA DESIGN SURVEY LAYOUT

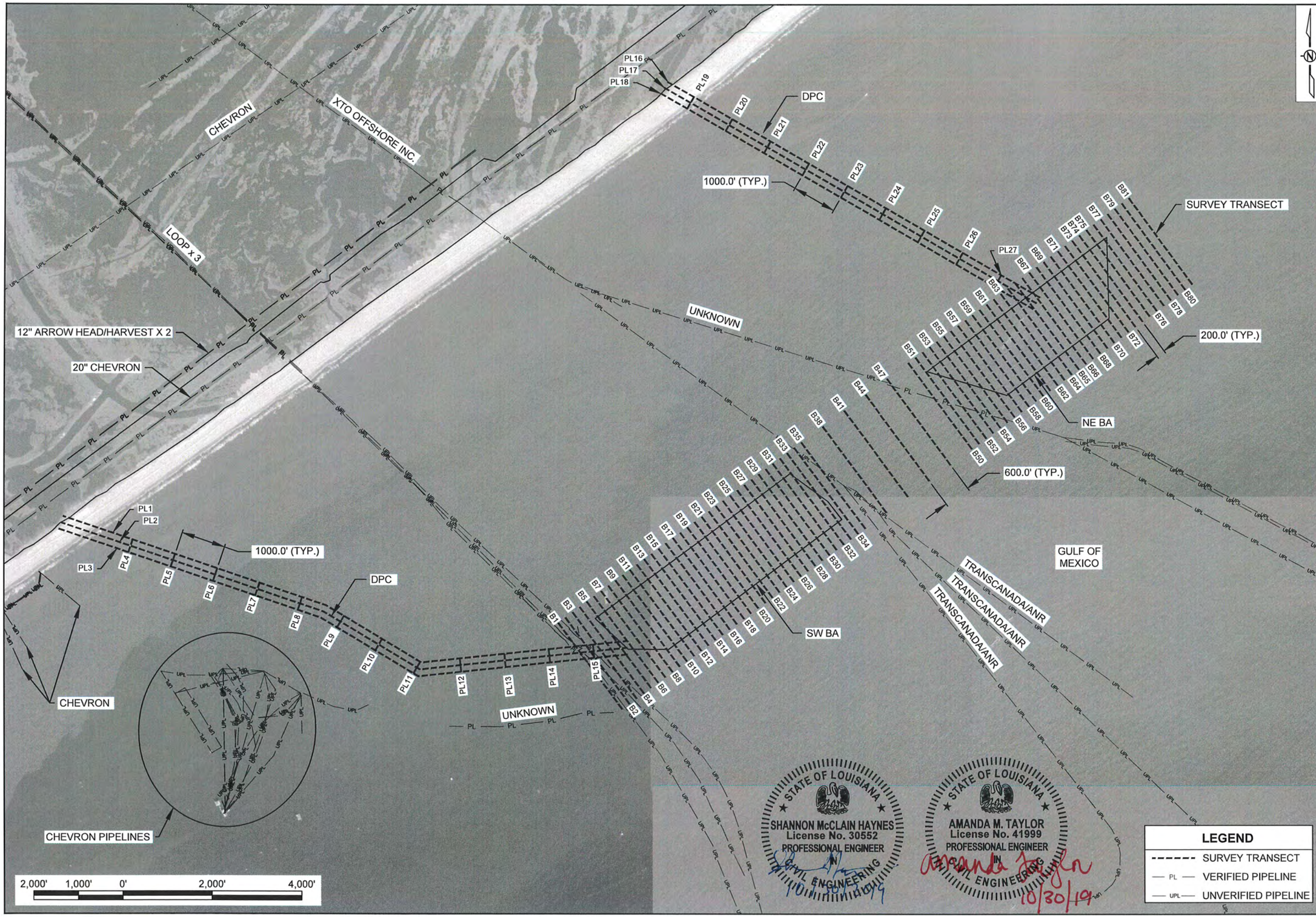
DESIGNED BY: A. TAYLOR, P.E. 041999
APPROVED BY: S. HAYNES, P.E.

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT

STATE PROJECT NUMBER: BA-0171
DRAWN BY: K. CANTU

DATE: OCT. 2019

SHEET 12 OF 53



REV.	DATE	DESCRIPTION	BY

COASTAL PROTECTION AND RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

BORROW AREA CONSTRUCTION SURVEY LAYOUT

DESIGNED BY: A. TAYLOR, P.E. 041999

APPROVED BY: S. HAYNES, P.E.

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT

STATE PROJECT NUMBER: BA-0171

DRAWN BY: K. CANTU

DATE: OCT. 2019

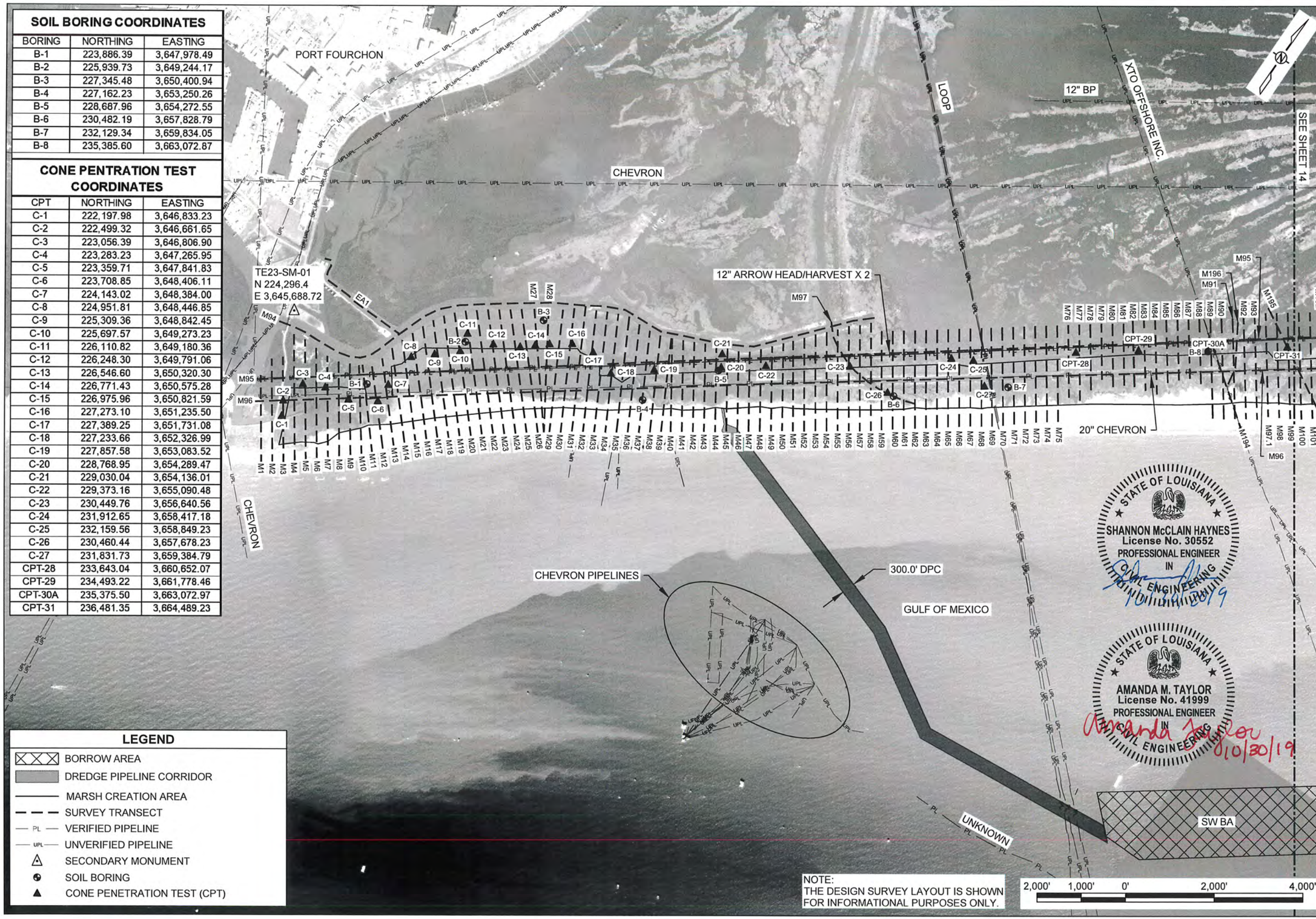
SHEET 13 OF 53

SOIL BORING COORDINATES

BORING	NORTHING	EASTING
B-1	223,886.39	3,647,978.49
B-2	225,939.73	3,649,244.17
B-3	227,345.48	3,650,400.94
B-4	227,162.23	3,653,250.26
B-5	228,687.96	3,654,272.55
B-6	230,482.19	3,657,828.79
B-7	232,129.34	3,659,834.05
B-8	235,385.60	3,663,072.87

CONE PENTRATION TEST COORDINATES

CPT	NORTHING	EASTING
C-1	222,197.98	3,646,833.23
C-2	222,499.32	3,646,661.65
C-3	223,056.39	3,646,806.90
C-4	223,283.23	3,647,265.95
C-5	223,359.71	3,647,841.83
C-6	223,708.85	3,648,406.11
C-7	224,143.02	3,648,384.00
C-8	224,951.81	3,648,446.85
C-9	225,309.36	3,648,842.45
C-10	225,697.57	3,649,273.23
C-11	226,110.82	3,649,180.36
C-12	226,248.30	3,649,791.06
C-13	226,546.60	3,650,320.30
C-14	226,771.43	3,650,575.28
C-15	226,975.96	3,650,821.59
C-16	227,273.10	3,651,235.50
C-17	227,389.25	3,651,731.08
C-18	227,233.66	3,652,326.99
C-19	227,857.58	3,653,083.52
C-20	228,768.95	3,654,289.47
C-21	229,030.04	3,654,136.01
C-22	229,373.16	3,655,090.48
C-23	230,449.76	3,656,640.56
C-24	231,912.65	3,658,417.18
C-25	232,159.56	3,658,849.23
C-26	230,460.44	3,657,678.23
C-27	231,831.73	3,659,384.79
CPT-28	233,643.04	3,660,652.07
CPT-29	234,493.22	3,661,778.46
CPT-30A	235,375.50	3,663,072.97
CPT-31	236,481.35	3,664,489.23



NOTE:
THE DESIGN SURVEY LAYOUT IS SHOWN FOR INFORMATIONAL PURPOSES ONLY.

STATE OF LOUISIANA
SHANNON McCLAIN HAYNES
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IN
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10/30/19

STATE OF LOUISIANA
AMANDA M. TAYLOR
License No. 41999
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
10/30/19

REV.	DATE	DESCRIPTION	BY

COASTAL PROTECTION AND RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

MARSH CREATION AREA DESIGN SURVEY LAYOUT

DESIGNED BY: A. TAYLOR, P.E. 041999
APPROVED BY: S. HAYNES, P.E.

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT

STATE PROJECT NUMBER: BA-0171
DRAWN BY: K. CANTU

DATE: OCT. 2019

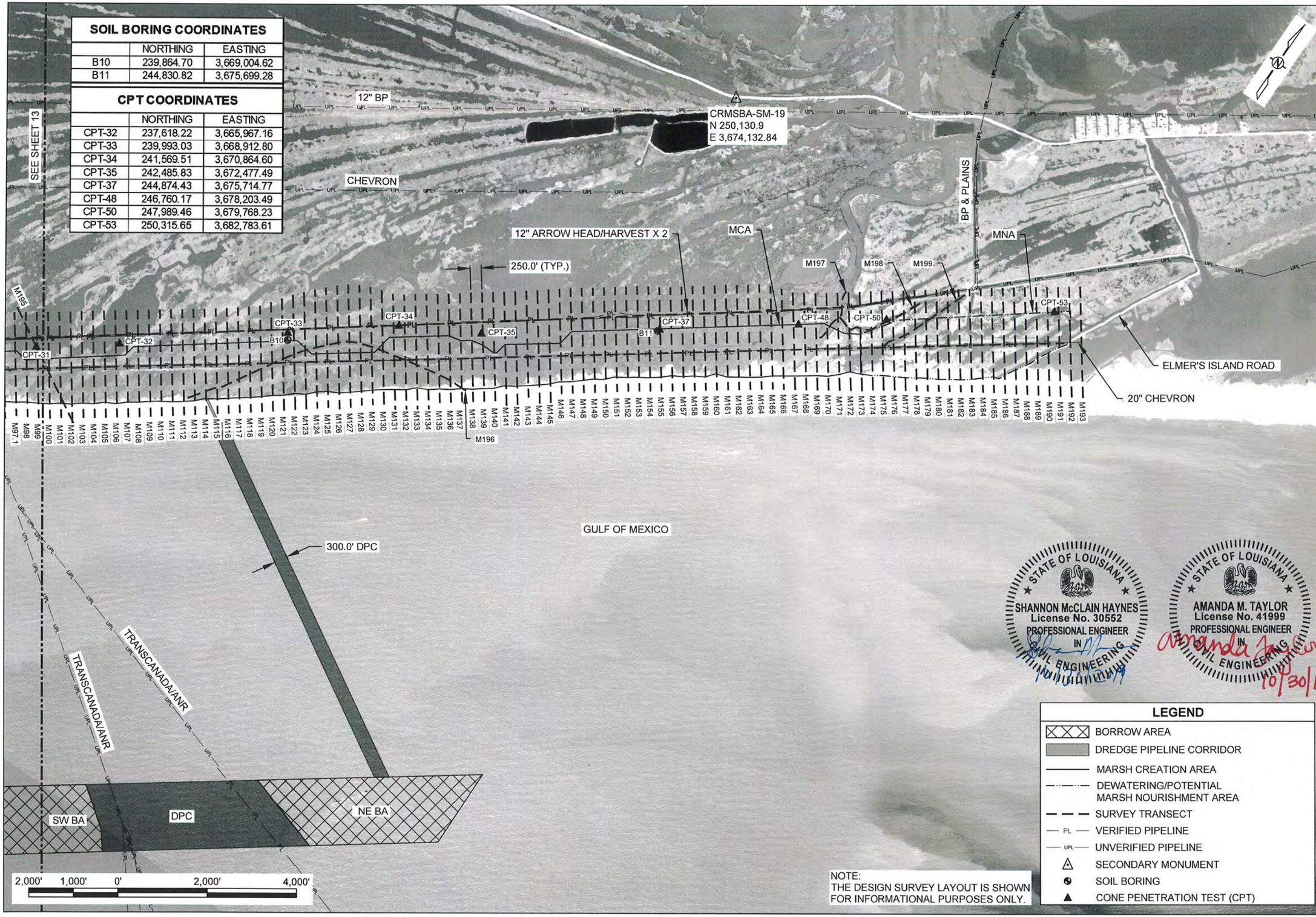
SHEET 14 OF 53

SOIL BORING COORDINATES

	NORTHING	EASTING
B10	239,864.70	3,669,004.62
B11	244,830.82	3,675,699.28

CPT COORDINATES

	NORTHING	EASTING
CPT-32	237,618.22	3,665,967.16
CPT-33	239,993.03	3,668,912.80
CPT-34	241,569.51	3,670,864.60
CPT-35	242,485.83	3,672,477.49
CPT-37	244,874.43	3,675,714.77
CPT-48	246,760.17	3,678,203.49
CPT-50	247,989.46	3,679,768.23
CPT-53	250,315.65	3,682,783.61



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10/30/2019

STATE OF LOUISIANA
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CIVIL ENGINEERING
10/30/19

LEGEND

- BORROW AREA
- DREDGE PIPELINE CORRIDOR
- MARSH CREATION AREA
- DEWATERING/POTENTIAL MARSH NOURISHMENT AREA
- SURVEY TRANSECT
- PL — VERIFIED PIPELINE
- UPL — UNVERIFIED PIPELINE
- SECONDARY MONUMENT
- SOIL BORING
- CONE PENETRATION TEST (CPT)

NOTE:
THE DESIGN SURVEY LAYOUT IS SHOWN FOR INFORMATIONAL PURPOSES ONLY.

REV.	DATE	DESCRIPTION	BY

COASTAL PROTECTION AND RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

MARSH CREATION AREA DESIGN SURVAY LAYOUT

DESIGNED BY: A. TAYLOR, P.E. 041999
APPROVED BY: S. HAYNES, P.E.

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT

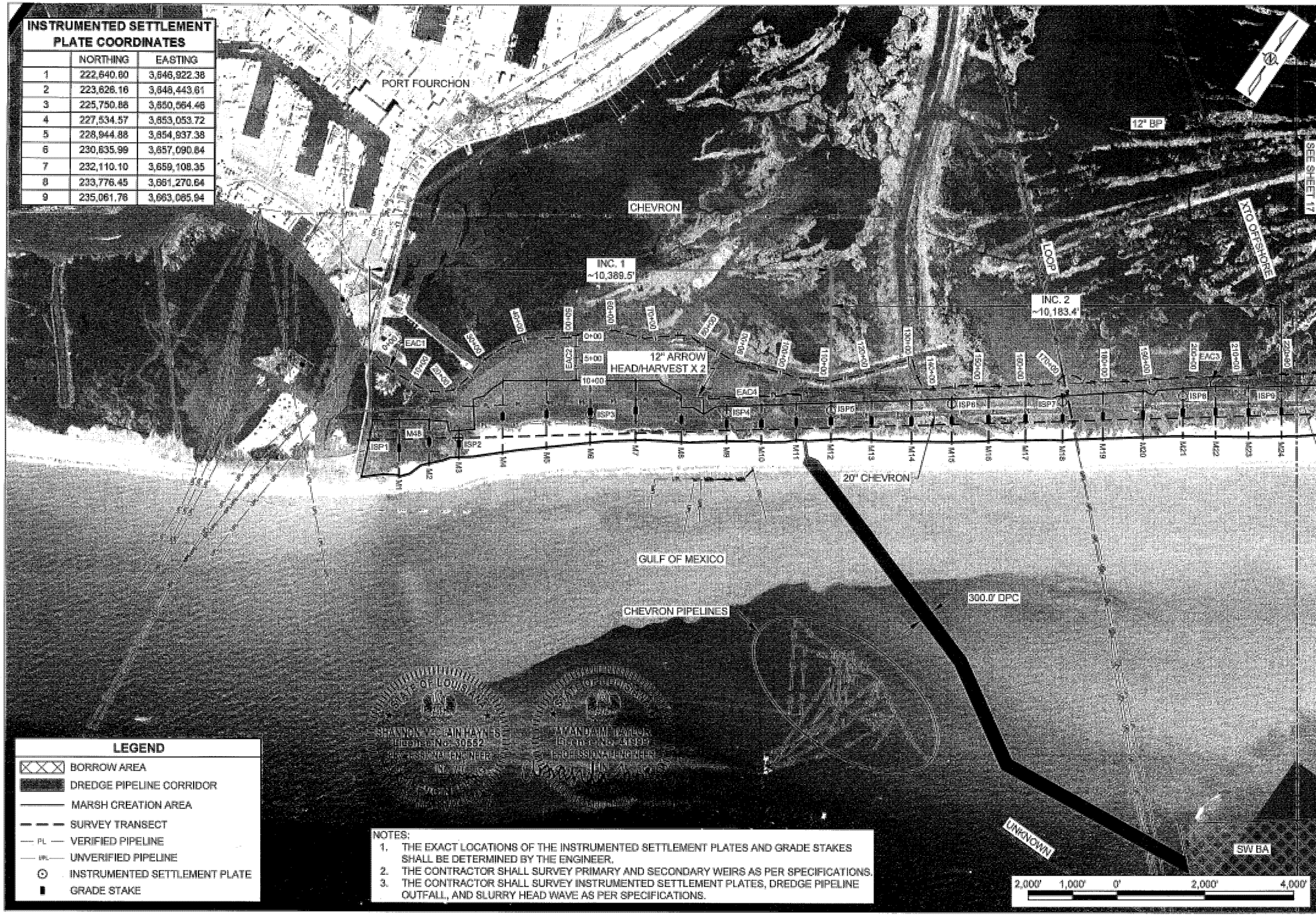
STATE PROJECT NUMBER: BA-0171
DRAWN BY: K. CANTU

DATE: OCT. 2019

SHEET 15 OF 53

INSTRUMENTED SETTLEMENT PLATE COORDINATES

	NORTHING	EASTING
1	222,640.80	3,646,922.38
2	223,626.16	3,648,443.61
3	225,750.88	3,650,564.46
4	227,534.57	3,653,053.72
5	228,944.88	3,654,937.38
6	230,635.99	3,657,090.84
7	232,110.10	3,659,108.35
8	233,776.45	3,661,270.64
9	235,061.78	3,663,085.94



LEGEND

- BORROW AREA
- DREDGE PIPELINE CORRIDOR
- MARSH CREATION AREA
- SURVEY TRANSECT
- VERIFIED PIPELINE
- UNVERIFIED PIPELINE
- INSTRUMENTED SETTLEMENT PLATE
- GRADE STAKE

NOTES:

1. THE EXACT LOCATIONS OF THE INSTRUMENTED SETTLEMENT PLATES AND GRADE STAKES SHALL BE DETERMINED BY THE ENGINEER.
2. THE CONTRACTOR SHALL SURVEY PRIMARY AND SECONDARY WEIRS AS PER SPECIFICATIONS.
3. THE CONTRACTOR SHALL SURVEY INSTRUMENTED SETTLEMENT PLATES, DREDGE PIPELINE OUTFALL, AND SLURRY HEAD WAVE AS PER SPECIFICATIONS.

REV.	DATE	DESCRIPTION	BY

COASTAL PROTECTION AND RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

INSTRUMENTED SETTLEMENT PLATE AND CONSTRUCTION SURVEY LAYOUT

DESIGNED BY: AMANDA TAYLOR, P.E.
APPROVED BY: SHANNON HAYNES, P.E.

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT

STATE PROJECT NUMBER: BA-0171
DRAWN BY: SHANE FALST

DATE: OCT. 2019

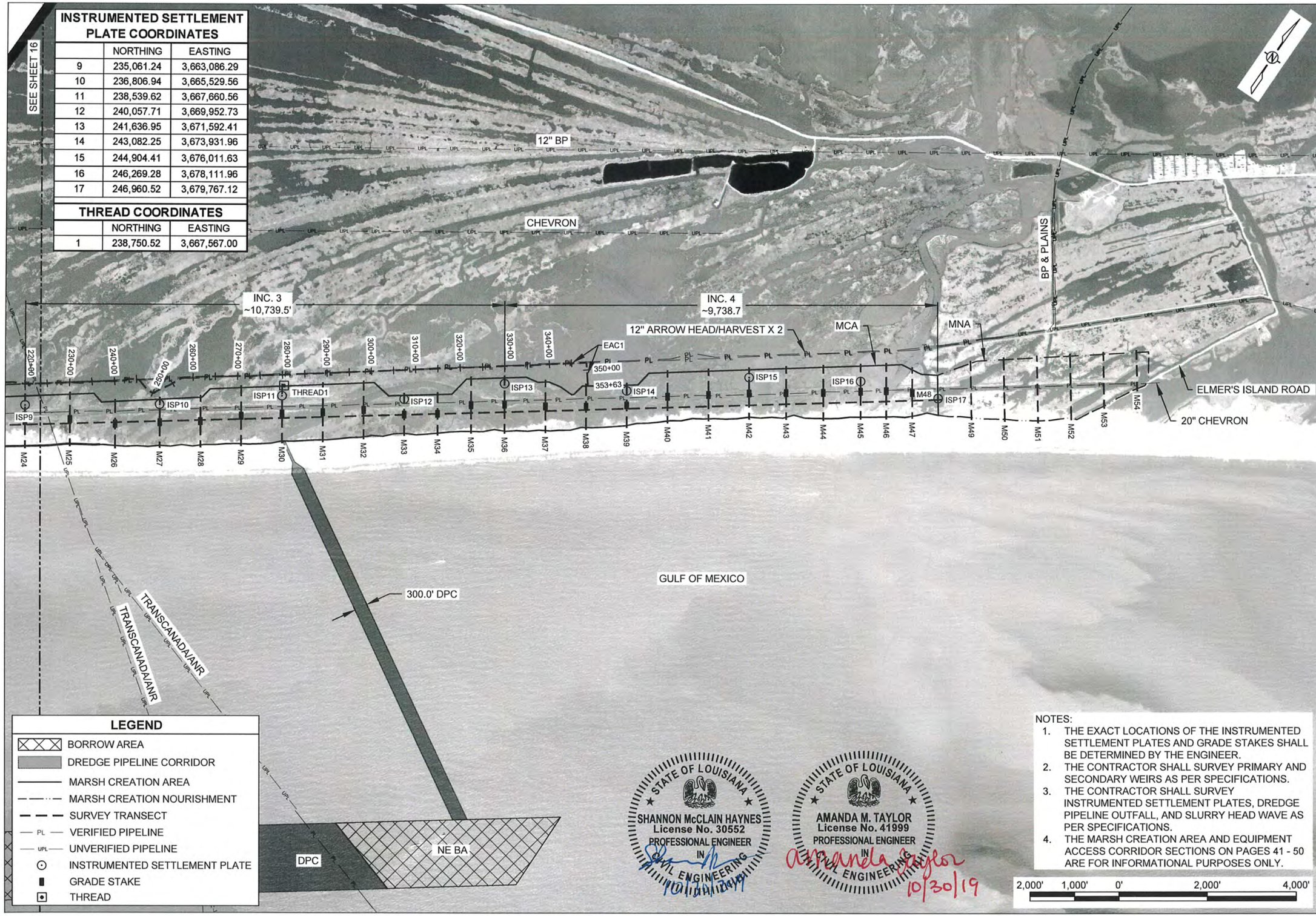
SHEET 16 OF 53

INSTRUMENTED SETTLEMENT PLATE COORDINATES

	NORTHING	EASTING
9	235,061.24	3,663,086.29
10	236,806.94	3,665,529.56
11	238,539.62	3,667,660.56
12	240,057.71	3,669,952.73
13	241,636.95	3,671,592.41
14	243,082.25	3,673,931.96
15	244,904.41	3,676,011.63
16	246,269.28	3,678,111.96
17	246,960.52	3,679,767.12

THREAD COORDINATES

	NORTHING	EASTING
1	238,750.52	3,667,567.00



NOTES:

1. THE EXACT LOCATIONS OF THE INSTRUMENTED SETTLEMENT PLATES AND GRADE STAKES SHALL BE DETERMINED BY THE ENGINEER.
2. THE CONTRACTOR SHALL SURVEY PRIMARY AND SECONDARY WEIRS AS PER SPECIFICATIONS.
3. THE CONTRACTOR SHALL SURVEY INSTRUMENTED SETTLEMENT PLATES, DREDGE PIPELINE OUTFALL, AND SLURRY HEAD WAVE AS PER SPECIFICATIONS.
4. THE MARSH CREATION AREA AND EQUIPMENT ACCESS CORRIDOR SECTIONS ON PAGES 41 - 50 ARE FOR INFORMATIONAL PURPOSES ONLY.

STATE OF LOUISIANA
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10/30/2019

STATE OF LOUISIANA
AMANDA M. TAYLOR
License No. 41999
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
10/30/19

REV.	DATE	DESCRIPTION	BY

COASTAL PROTECTION AND RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

INSTRUMENTED SETTLEMENT PLATE AND CONSTRUCTION SURVEY LAYOUT

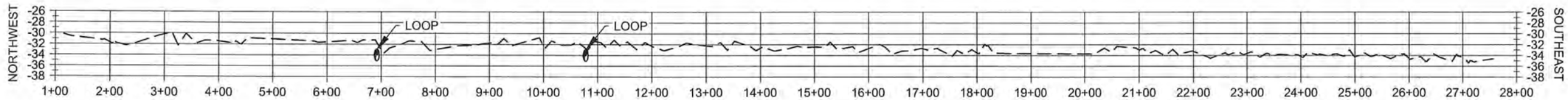
DESIGNED BY: AMANDA TAYLOR, P.E.
APPROVED BY: SHANNON HAYNES, P.E.

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT

STATE PROJECT NUMBER: BA-0171
DRAWN BY: SHANE FAUST

DATE: OCT. 2019

SHEET 17 OF 53



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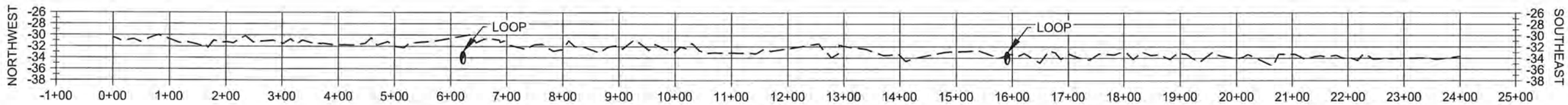

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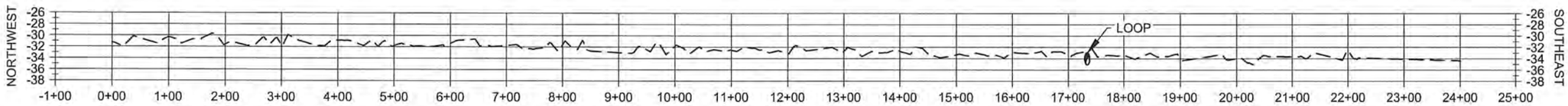

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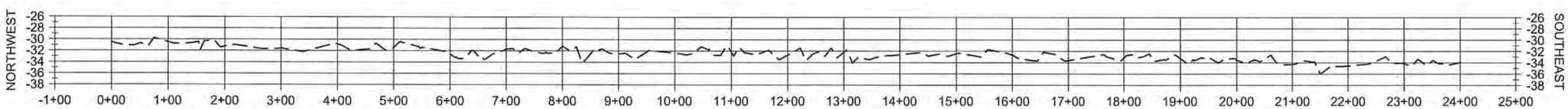

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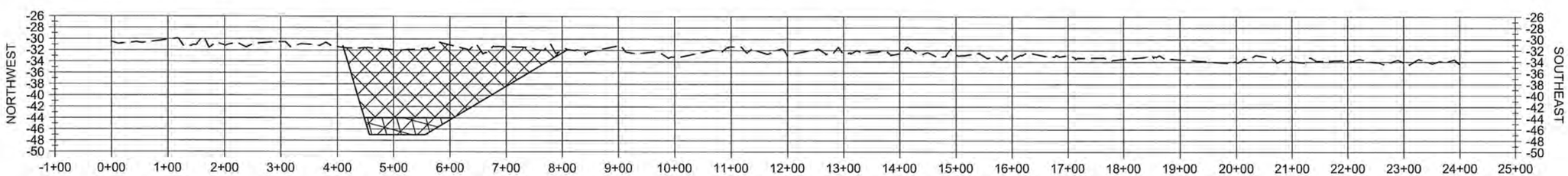

B5

HORIZONTAL GRAPHIC SCALE
200' 100' 0 200' 400'
20' 10' 0 20' 40'
VERTICAL GRAPHIC SCALE

NOTE:
ALL ELEVATIONS ARE GIVEN IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

STATE OF LOUISIANA
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10/30/2019

STATE OF LOUISIANA
AMANDA M. TAYLOR
License No. 41999
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
Amanda M. Taylor
10/30/19

LEGEND

- BORROW AREA
- OVER DREDGE
- EXISTING WATER BOTTOM
- PIPELINE

REV.	DATE	DESCRIPTION	BY

COASTAL PROTECTION AND RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

BORROW AREA SECTIONS

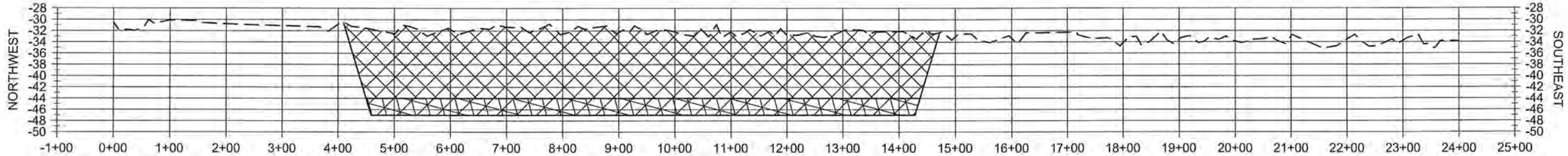
DESIGNED BY: A. TAYLOR, P.E.
APPROVED BY: S. HAYNES, P.E.

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT

STATE PROJECT NUMBER: BA-0171
DRAWN BY: K. CANTU

DATE: OCT. 2019

SHEET 18 OF 53



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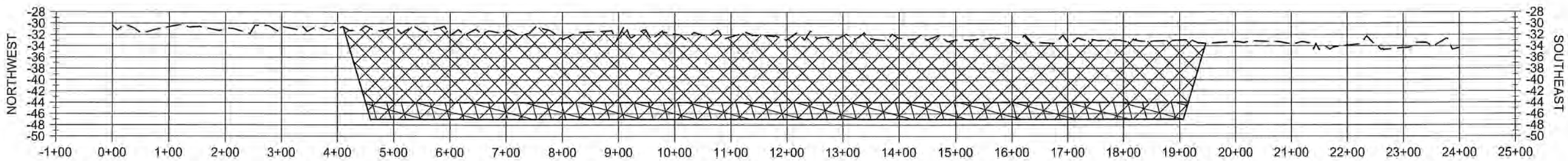

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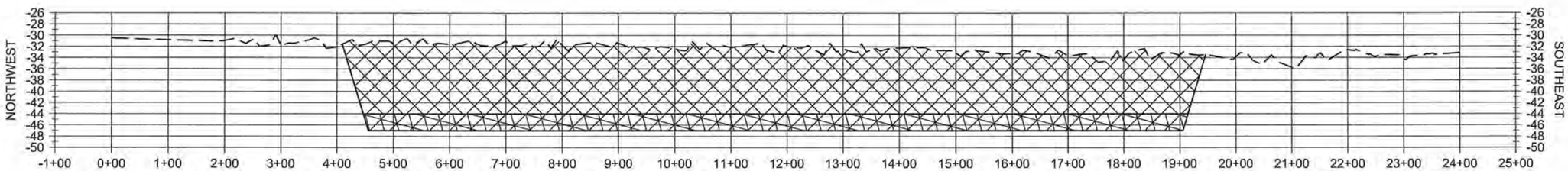

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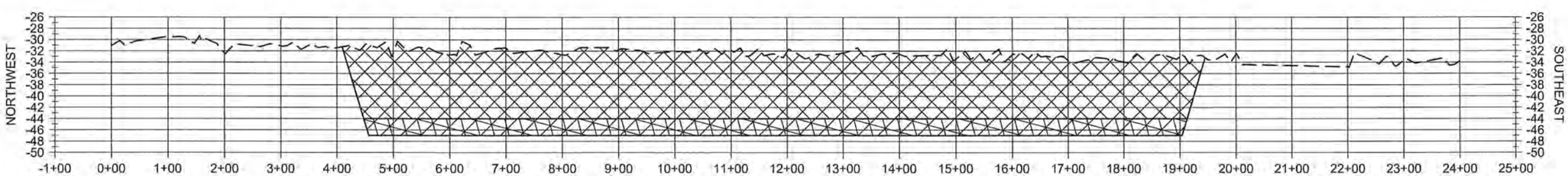

B9

HORIZONTAL GRAPHIC SCALE
200' 100' 0 200' 400'
20' 10' 0 20' 40'
VERTICAL GRAPHIC SCALE

NOTE:
ALL ELEVATIONS ARE GIVEN IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

STATE OF LOUISIANA
SHANNON McCLAIN HAYNES
License No. 30552
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10/30/19

STATE OF LOUISIANA
AMANDA M. TAYLOR
License No. 41999
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
Amanda Taylor
10/30/19

LEGEND
BORROW AREA
OVER DREDGE
EXISTING WATER BOTTOM

REV.	DATE	DESCRIPTION	BY

COASTAL PROTECTION AND RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

BORROW AREA SECTIONS

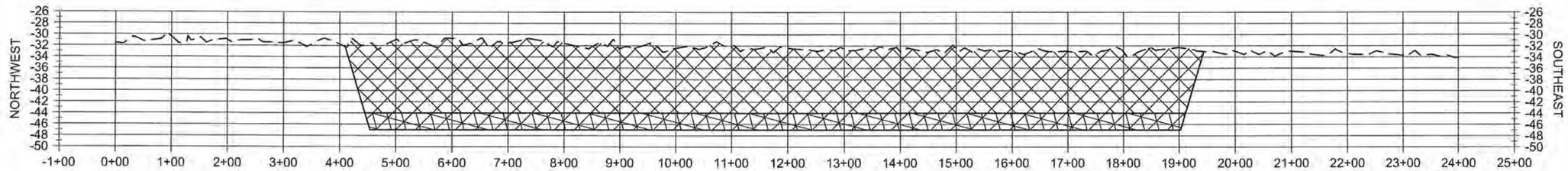
DESIGNED BY: A. TAYLOR, P.E.
APPROVED BY: S. HAYNES, P.E.

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT

STATE PROJECT NUMBER: BA-0171
DRAWN BY: K. CANTU

DATE: OCT. 2019

SHEET 19 OF 53



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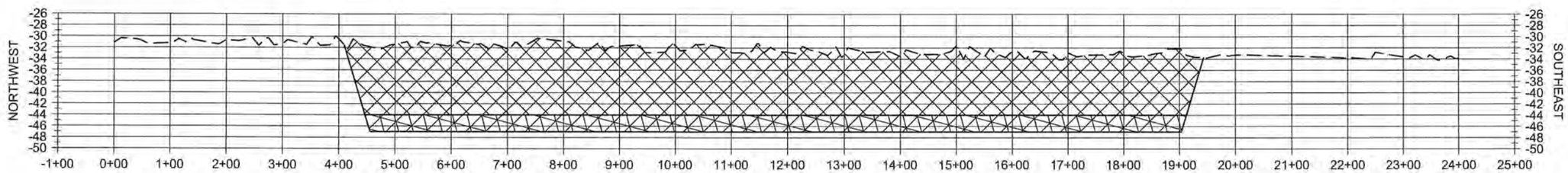

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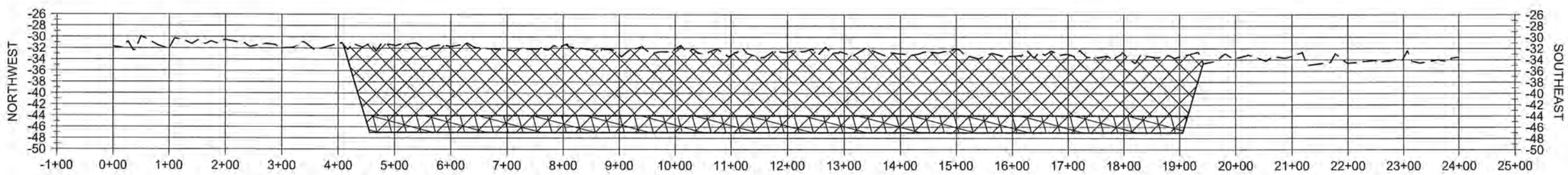

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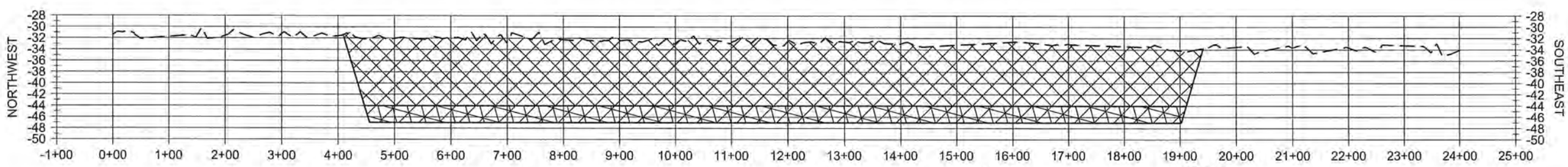

B13

HORIZONTAL GRAPHIC SCALE
200' 100' 0 200' 400'
20' 10' 0 20' 40'
VERTICAL GRAPHIC SCALE

NOTE:
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STATE OF LOUISIANA
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10/30/19

STATE OF LOUISIANA
AMANDA M. TAYLOR
License No. 41999
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
10/30/19

LEGEND

- BORROW AREA
- OVER DREDGE
- EXISTING WATER BOTTOM

REV.	DATE	DESCRIPTION	BY

COASTAL PROTECTION AND RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

BORROW AREA SECTIONS

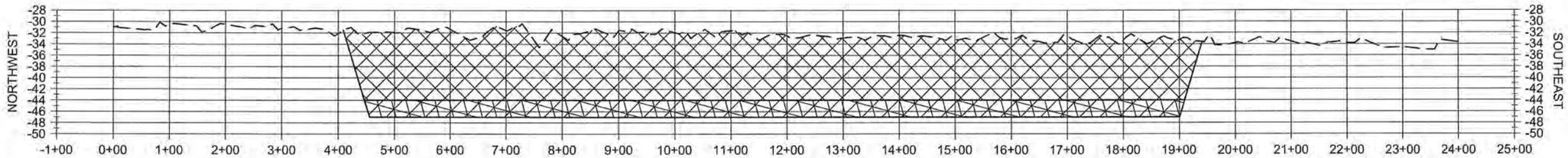
DESIGNED BY: A. TAYLOR, P.E.
APPROVED BY: S. HAYNES, P.E.

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT

STATE PROJECT NUMBER: BA-0171
DRAWN BY: K. CANTU

DATE: OCT. 2019

SHEET 20 OF 53



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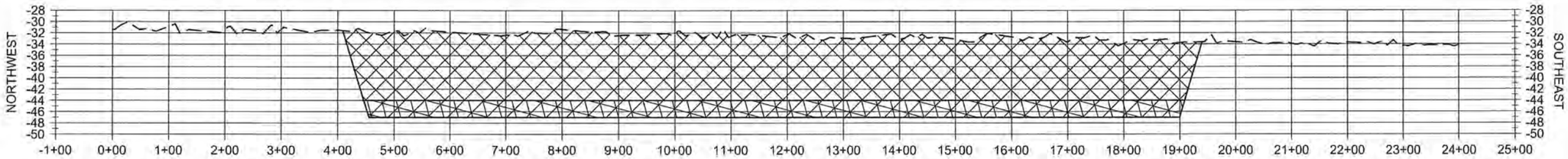

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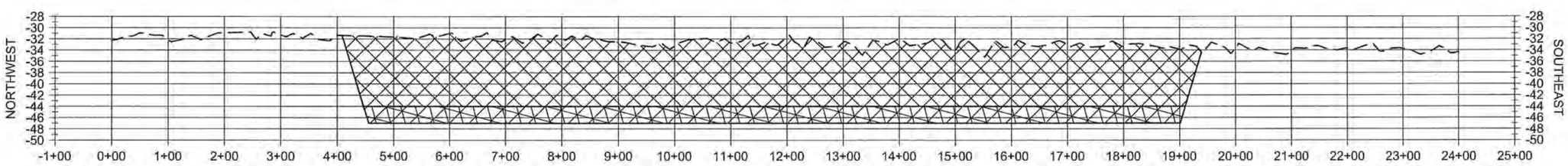

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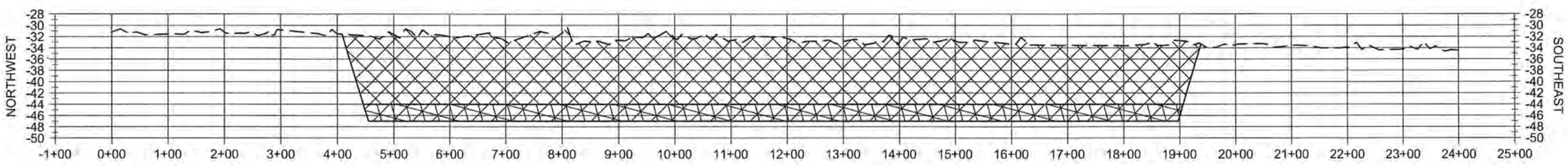

B17

HORIZONTAL GRAPHIC SCALE
200' 100' 0 200' 400'
20' 10' 0 20' 40'
VERTICAL GRAPHIC SCALE

NOTE:
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STATE OF LOUISIANA
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10/30/19

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AMANDA M. TAYLOR
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PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
10/30/19

LEGEND
- BORROW AREA
- OVER DREDGE
- EXISTING WATER BOTTOM

REV.	DATE	DESCRIPTION	BY

COASTAL PROTECTION AND RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

BORROW AREA SECTIONS

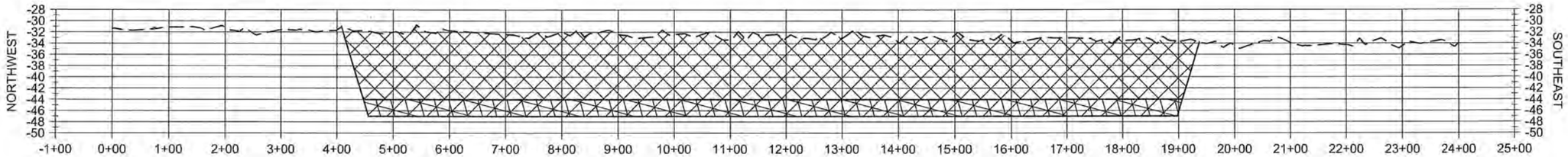
DESIGNED BY: A. TAYLOR, P.E.
APPROVED BY: S. HAYNES, P.E.

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT

STATE PROJECT NUMBER: BA-0171
DRAWN BY: K. CANTU

DATE: OCT. 2019

SHEET 21 OF 53



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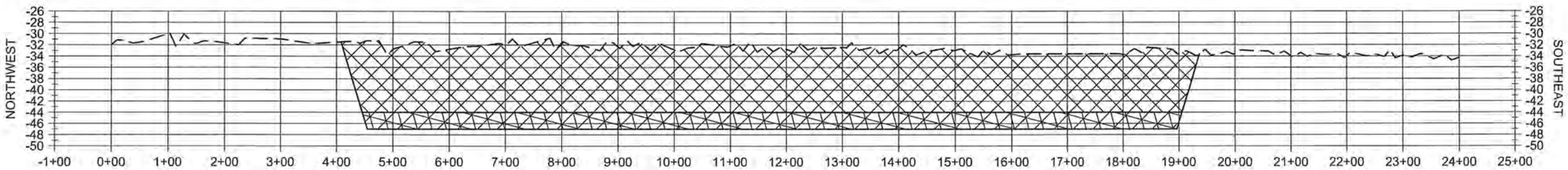

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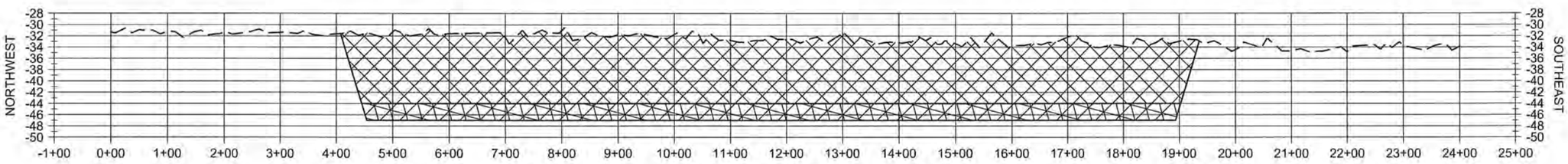

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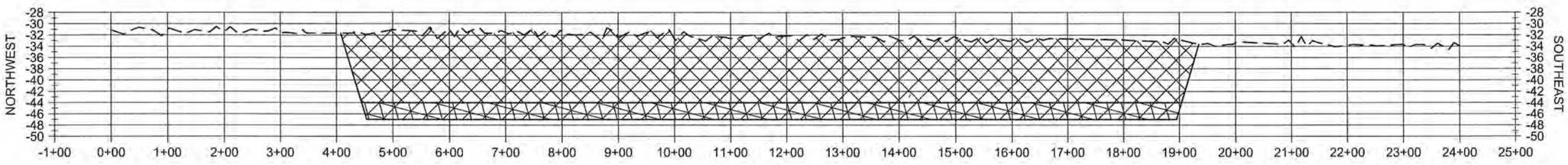

B21

HORIZONTAL GRAPHIC SCALE
200' 100' 0 200' 400'
20' 10' 0 20' 40'
VERTICAL GRAPHIC SCALE

NOTE:
ALL ELEVATIONS ARE GIVEN IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

STATE OF LOUISIANA
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10/30/2019

STATE OF LOUISIANA
AMANDA M. TAYLOR
License No. 41999
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
10/30/19

LEGEND
- BORROW AREA
- OVER DREDGE
- EXISTING WATER BOTTOM

REV.	DATE	DESCRIPTION	BY

COASTAL PROTECTION AND RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

BORROW AREA SECTIONS

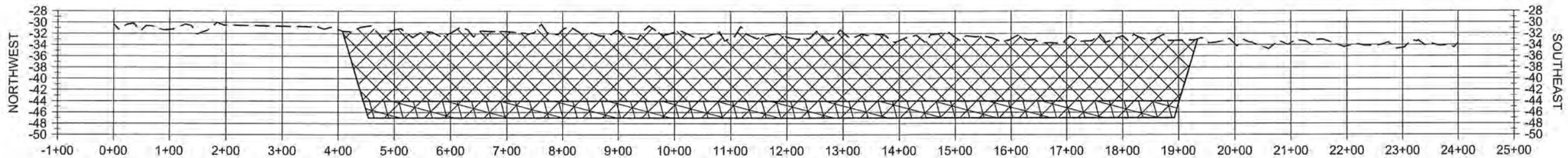
DESIGNED BY: A. TAYLOR, P.E.
APPROVED BY: S. HAYNES, P.E.

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT

STATE PROJECT NUMBER: BA-0171
DRAWN BY: K. CANTU

DATE: OCT. 2019

SHEET 22 OF 53



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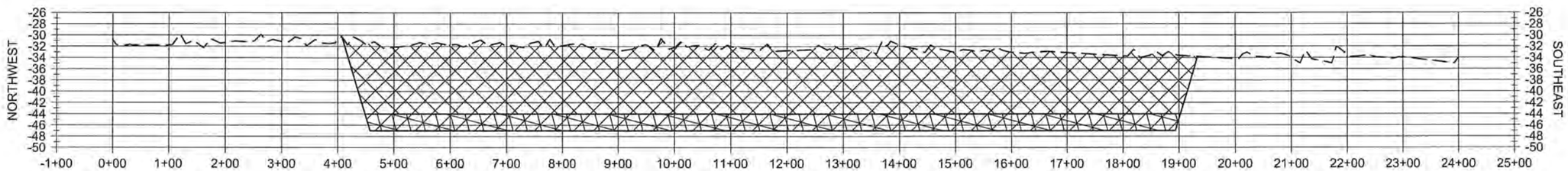
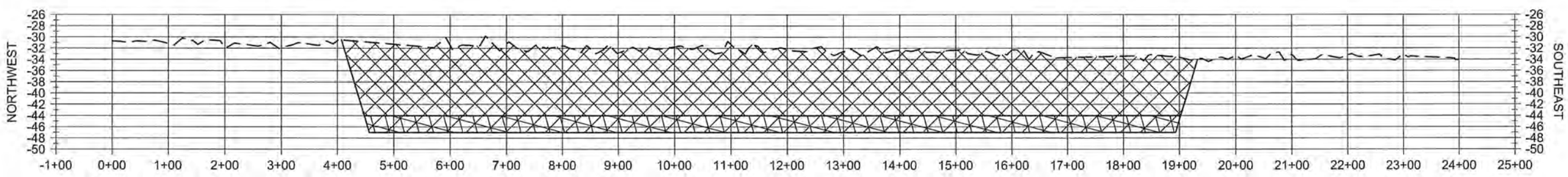


B23



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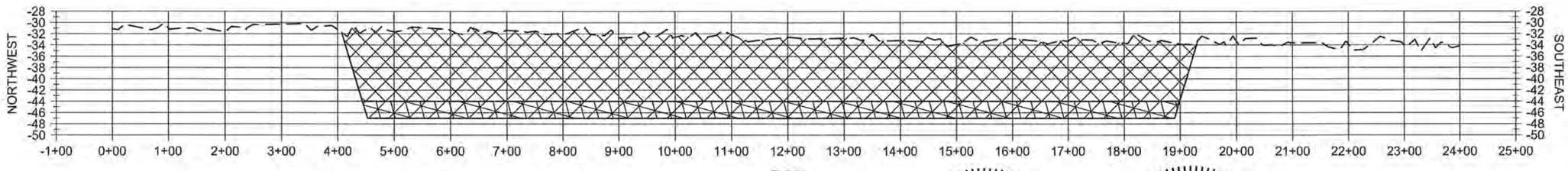


B25

HORIZONTAL GRAPHIC SCALE
200' 100' 0 200' 400'
20' 10' 0 20' 40'
VERTICAL GRAPHIC SCALE

NOTE:
ALL ELEVATIONS ARE GIVEN IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

STATE OF LOUISIANA
SHANNON McCLAIN HAYNES
License No. 30552
PROFESSIONAL ENGINEER
IN CIVIL ENGINEERING
10/30/19

STATE OF LOUISIANA
AMANDA M. TAYLOR
License No. 41999
PROFESSIONAL ENGINEER
IN CIVIL ENGINEERING
10/30/19

LEGEND
BORROW AREA
OVER DREDGE
EXISTING WATER BOTTOM

REV.	DATE	DESCRIPTION	BY

COASTAL PROTECTION AND RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

BORROW AREA SECTIONS

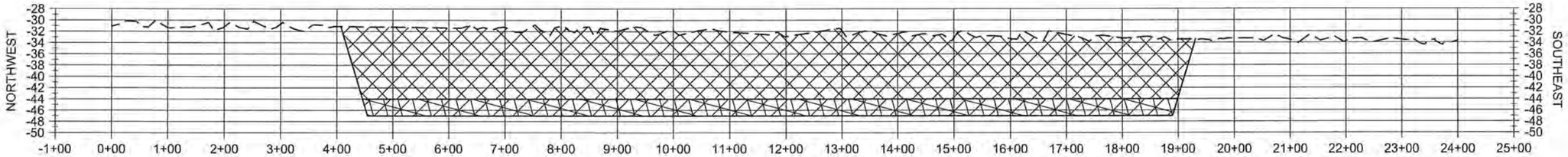
DESIGNED BY: A. TAYLOR, P.E.
APPROVED BY: S. HAYNES, P.E.

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT

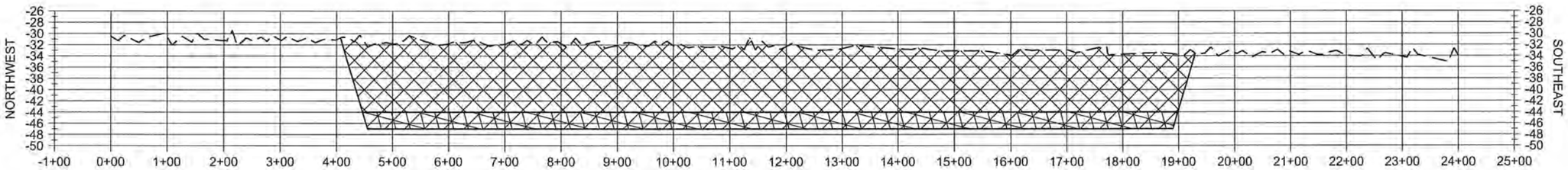
STATE PROJECT NUMBER: BA-0171
DRAWN BY: K. CANTU

DATE: OCT. 2019

SHEET 23 OF 53



B26



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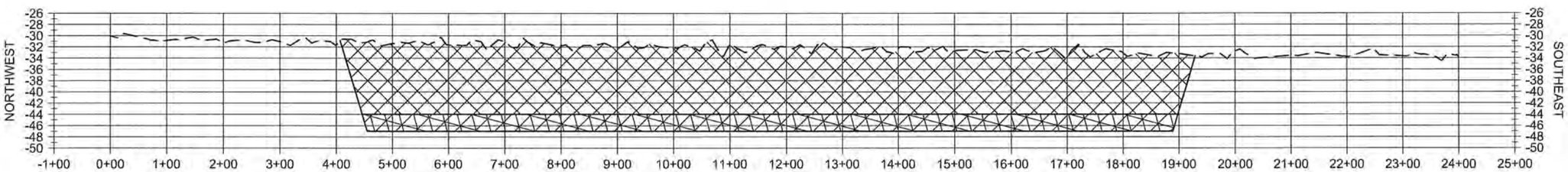

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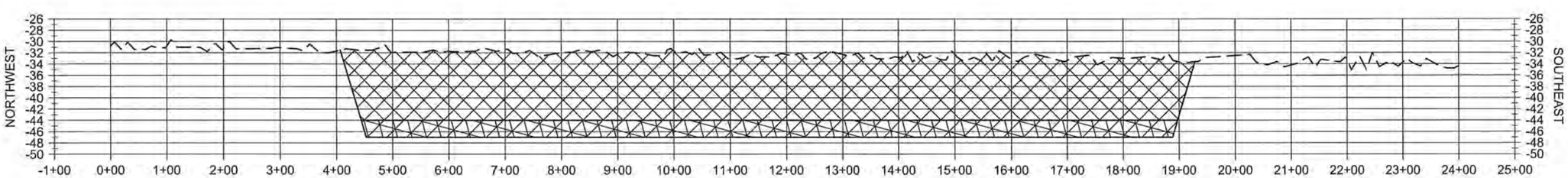

B29

HORIZONTAL GRAPHIC SCALE
200' 100' 0 200' 400'
20' 10' 0 20' 40'
VERTICAL GRAPHIC SCALE

NOTE:
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STATE OF LOUISIANA
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10/30/2019

STATE OF LOUISIANA
AMANDA M. TAYLOR
License No. 41999
PROFESSIONAL ENGINEER
IN CIVIL ENGINEERING
Amanda Taylor
10/30/19

LEGEND
BORROW AREA
OVER DREDGE
EXISTING WATER BOTTOM

REV.	DATE	DESCRIPTION	BY

COASTAL PROTECTION AND RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

BORROW AREA SECTIONS

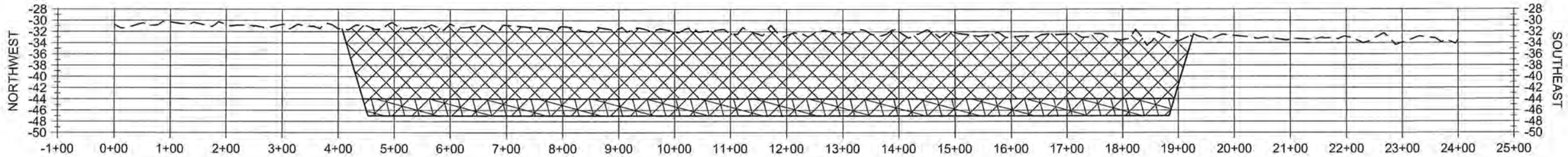
DESIGNED BY: A. TAYLOR, P.E.
APPROVED BY: S. HAYNES, P.E.

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT

STATE PROJECT NUMBER: BA-0171
DRAWN BY: K. CANTU

DATE: OCT. 2019

SHEET 24 OF 53



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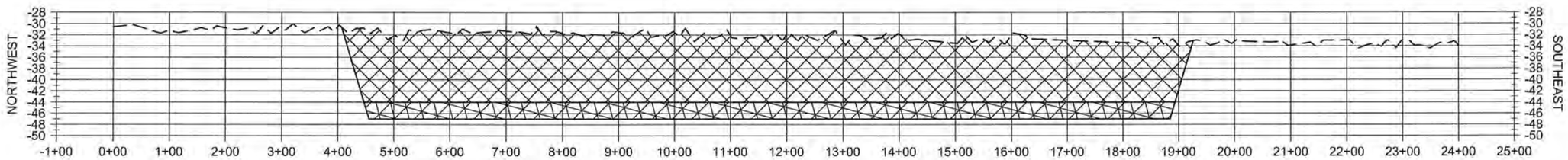

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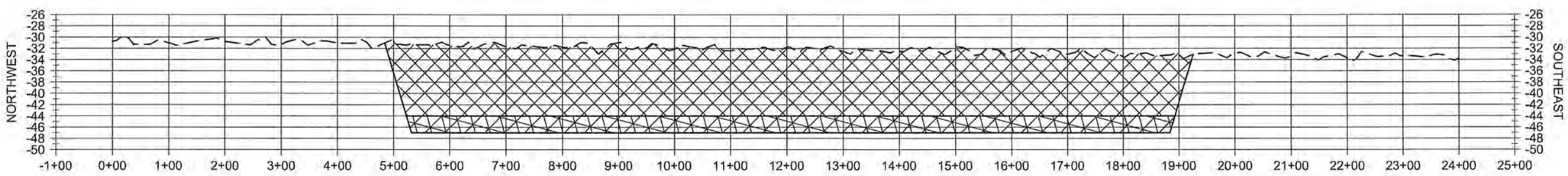

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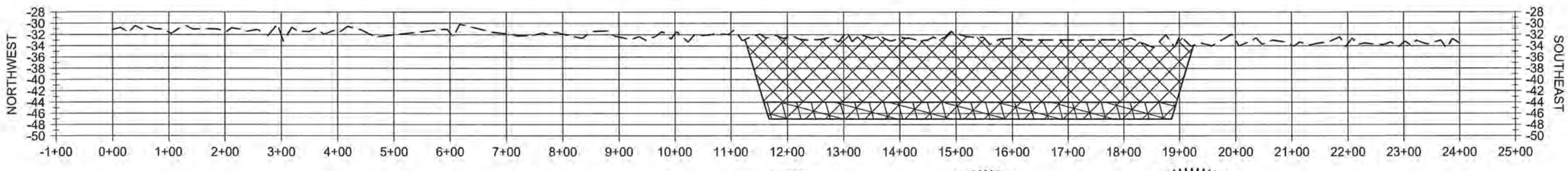

B33

HORIZONTAL GRAPHIC SCALE
200' 100' 0 200' 400'
20' 10' 0 20' 40'
VERTICAL GRAPHIC SCALE

NOTE:
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10/30/19

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AMANDA M. TAYLOR
License No. 41999
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
Amanda Taylor
10/30/19

LEGEND
- BORROW AREA
- OVER DREDGE
- EXISTING WATER BOTTOM

REV.	DATE	DESCRIPTION	BY

COASTAL PROTECTION AND RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

BORROW AREA SECTIONS

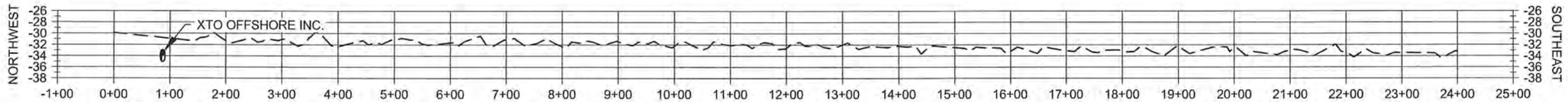
DESIGNED BY: A. TAYLOR, P.E.
APPROVED BY: S. HAYNES, P.E.

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT

STATE PROJECT NUMBER: BA-0171
DRAWN BY: K. CANTU

DATE: OCT. 2019

SHEET 25 OF 53



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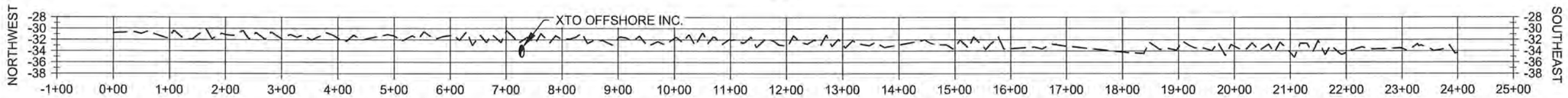

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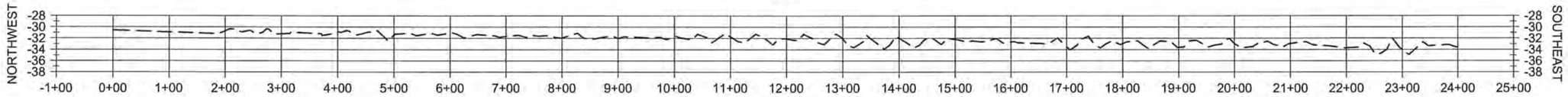

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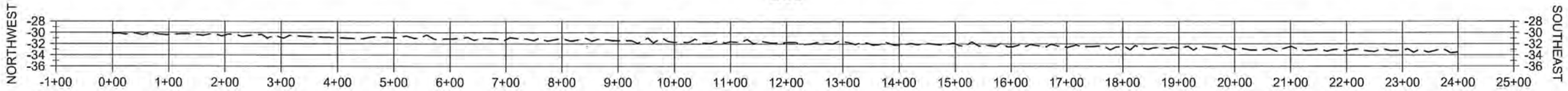

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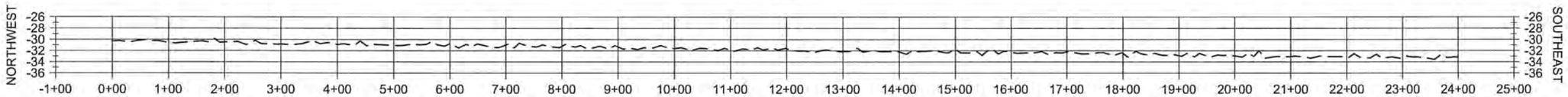

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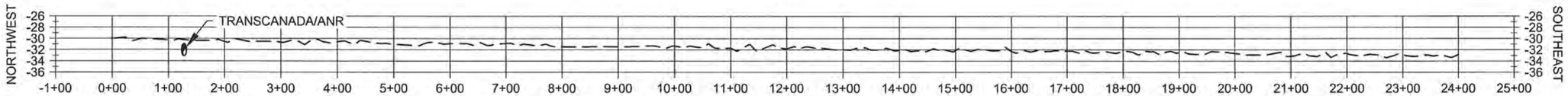

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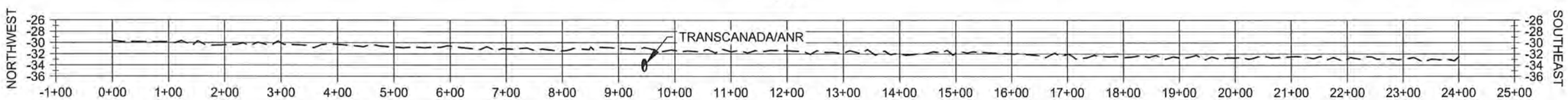

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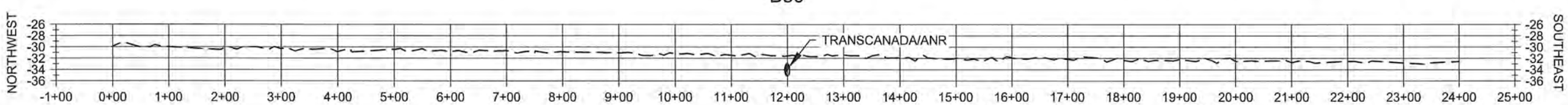

B51

HORIZONTAL GRAPHIC SCALE
200' 100' 0 200' 400'
20' 10' 0 20' 40'
VERTICAL GRAPHIC SCALE

NOTE:
ALL ELEVATIONS ARE GIVEN IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

STATE OF LOUISIANA
SHANNON McCLAIN HAYNES
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IN CIVIL ENGINEERING
10/30/2019

STATE OF LOUISIANA
AMANDA M. TAYLOR
License No. 41999
PROFESSIONAL ENGINEER
IN CIVIL ENGINEERING
Amanda Taylor
10/30/19

LEGEND
EXISTING WATER BOTTOM
PIPELINE

REV.	DATE	DESCRIPTION	BY

COASTAL PROTECTION AND RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

BORROW AREA SECTIONS

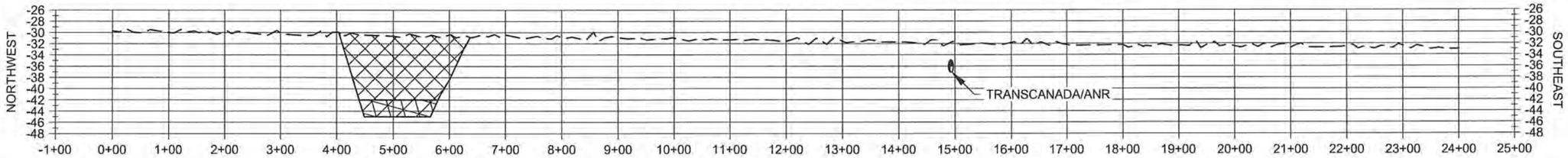
DESIGNED BY: A. TAYLOR, P.E.
APPROVED BY: S. HAYNES, P.E.

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT

STATE PROJECT NUMBER: BA-0171
DRAWN BY: K. CANTU

DATE: OCT. 2019

SHEET 26 OF 53



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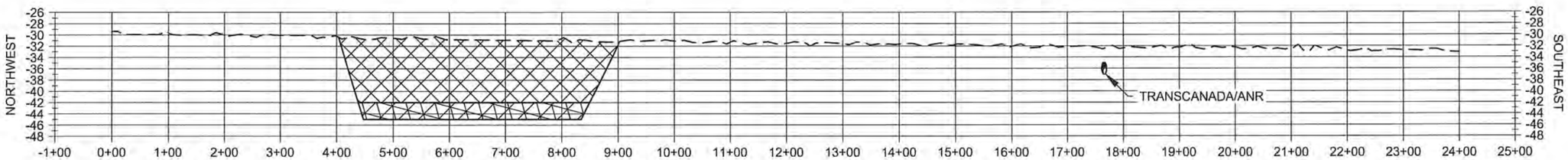

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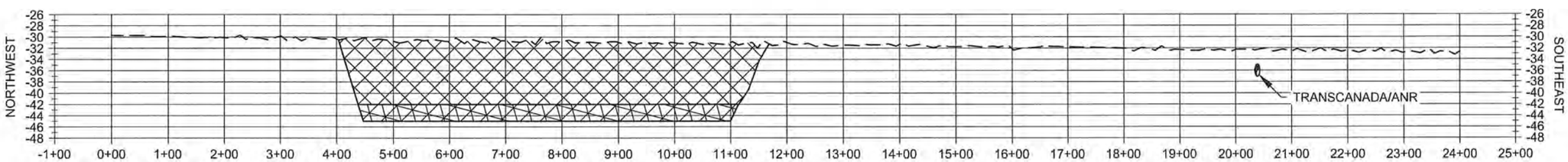

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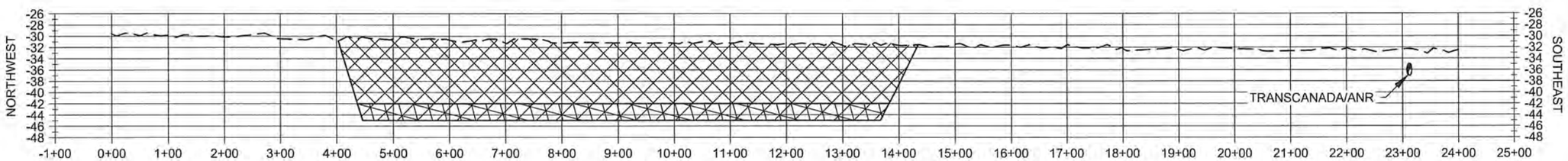

B55

HORIZONTAL GRAPHIC SCALE
200' 100' 0 200' 400'
20' 10' 0 20' 40'
VERTICAL GRAPHIC SCALE

NOTE:
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STATE OF LOUISIANA
SHANNON McCLAIN HAYNES
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PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
10/30/19

STATE OF LOUISIANA
AMANDA M. TAYLOR
License No. 41999
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
10/30/19

LEGEND

- BORROW AREA
- OVER DREDGE
- EXISTING WATER BOTTOM
- PIPELINE

REV.	DATE	DESCRIPTION	BY

COASTAL PROTECTION AND RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

BORROW AREA SECTIONS

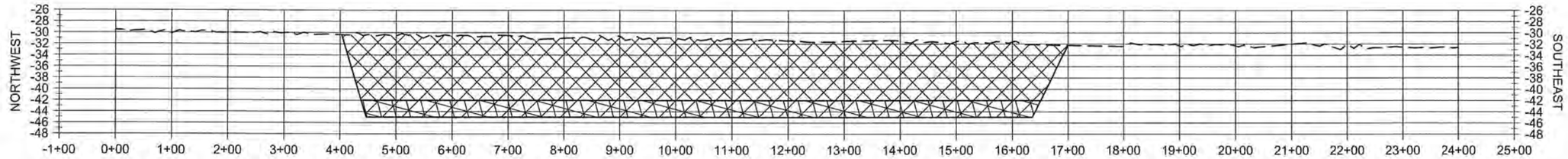
DESIGNED BY: A. TAYLOR, P.E.
APPROVED BY: S. HAYNES, P.E.

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT

STATE PROJECT NUMBER: BA-0171
DRAWN BY: K. CANTU

DATE: OCT. 2019

SHEET 27 OF 53



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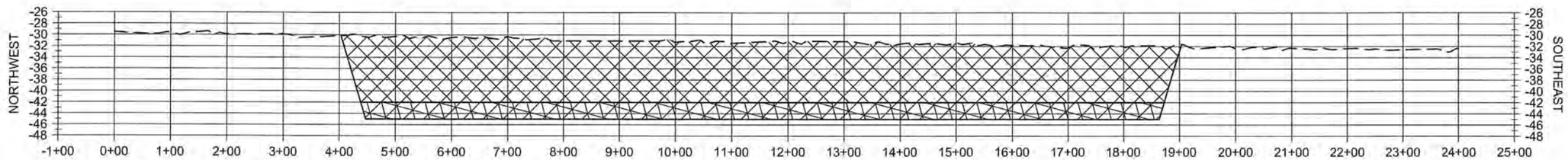

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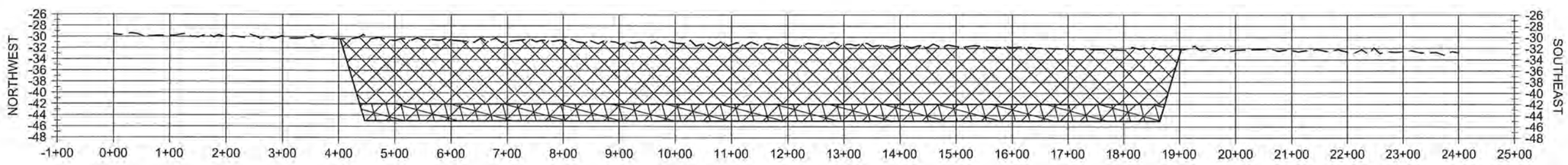

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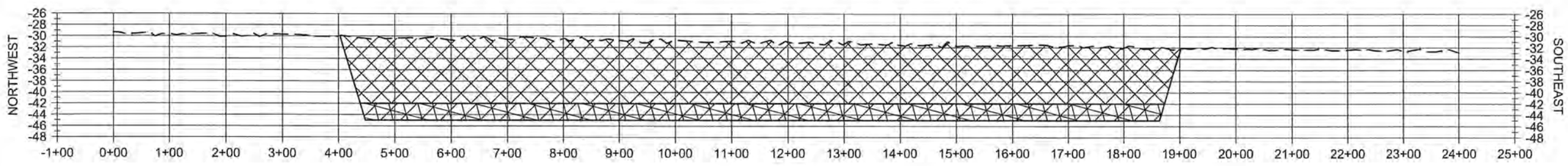

B59

HORIZONTAL GRAPHIC SCALE
200' 100' 0 200' 400'
20' 10' 0 20' 40'
VERTICAL GRAPHIC SCALE

NOTE:
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10/30/2019

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AMANDA M. TAYLOR
License No. 41999
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
Amanda Taylor 10/30/19

LEGEND
- BORROW AREA
- OVER DREDGE
- EXISTING WATER BOTTOM

REV.	DATE	DESCRIPTION	BY

COASTAL PROTECTION AND RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

BORROW AREA SECTIONS

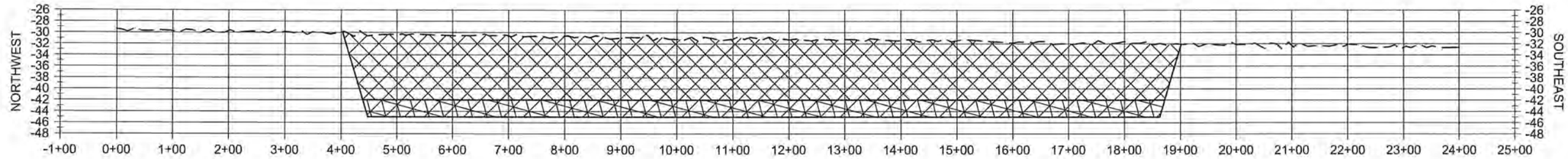
DESIGNED BY: A. TAYLOR, P.E.
APPROVED BY: S. HAYNES, P.E.

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT

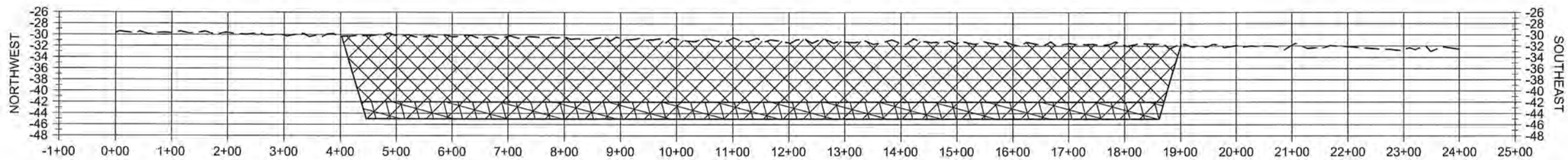
STATE PROJECT NUMBER: BA-0171
DRAWN BY: K. CANTU

DATE: OCT. 2019

SHEET 28 OF 53



B60



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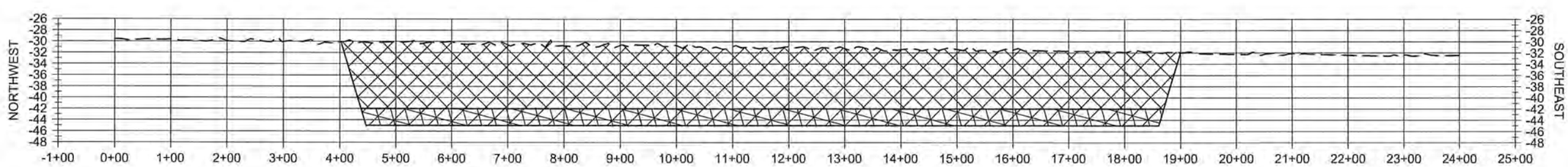

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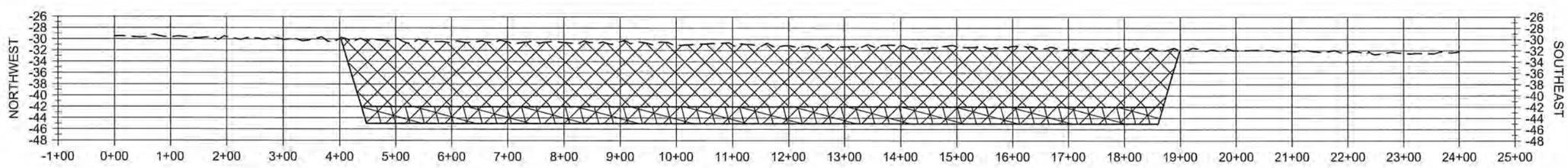

B63

HORIZONTAL GRAPHIC SCALE
200' 100' 0 200' 400'
20' 10' 0 20' 40'
VERTICAL GRAPHIC SCALE

NOTE:
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IN
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Amanda Taylor
10/30/19

LEGEND
- BORROW AREA
- OVER DREDGE
- EXISTING WATER BOTTOM

REV.	DATE	DESCRIPTION	BY

COASTAL PROTECTION AND RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

BORROW AREA SECTIONS

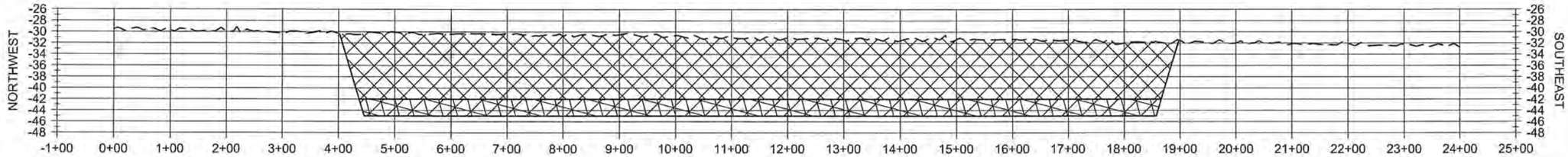
DESIGNED BY: A. TAYLOR, P.E.
APPROVED BY: S. HAYNES, P.E.

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT

STATE PROJECT NUMBER: BA-0171
DRAWN BY: K. CANTU

DATE: OCT. 2019

SHEET 29 OF 53



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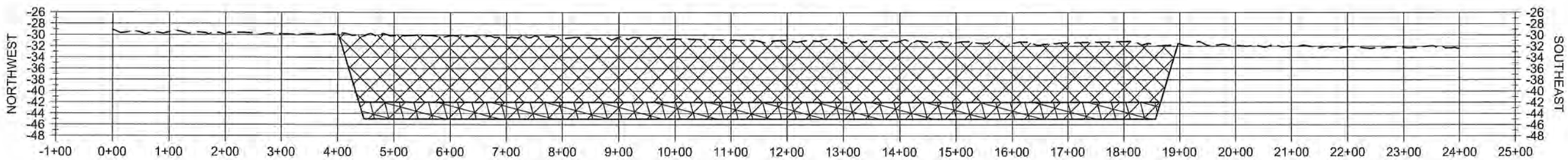

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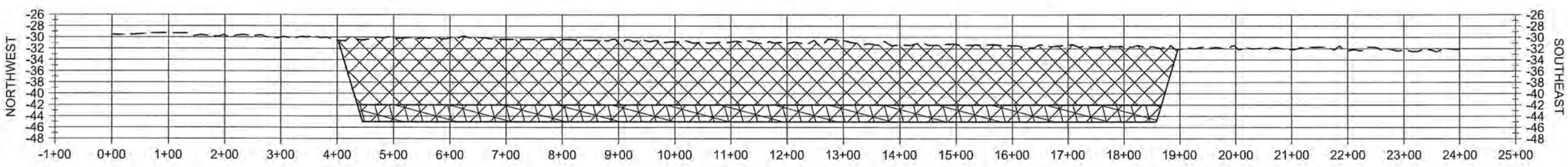

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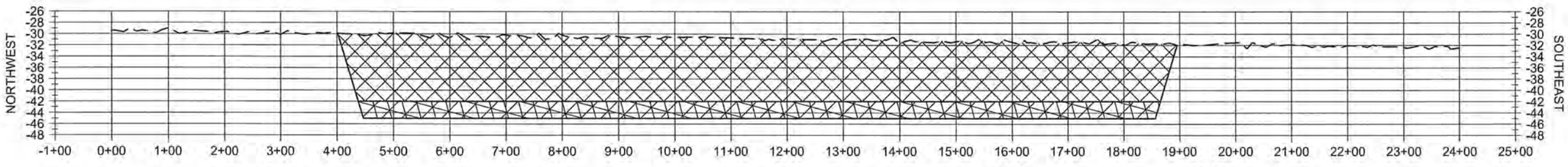

B67

HORIZONTAL GRAPHIC SCALE
200' 100' 0 200' 400'
20' 10' 0 20' 40'
VERTICAL GRAPHIC SCALE

NOTE:
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AMANDA M. TAYLOR
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PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
10/30/19

LEGEND
- BORROW AREA
- OVER DREDGE
- EXISTING WATER BOTTOM

REV.	DATE	DESCRIPTION	BY

COASTAL PROTECTION AND RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

BORROW AREA SECTIONS

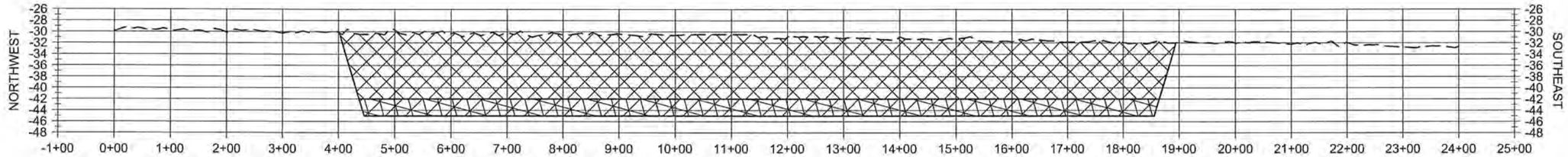
DESIGNED BY: A. TAYLOR, P.E.
APPROVED BY: S. HAYNES, P.E.

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT

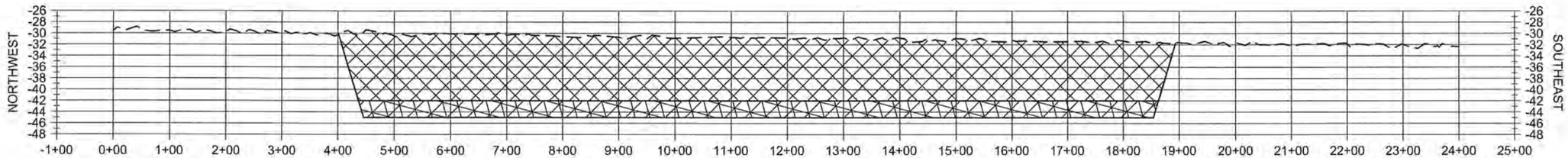
STATE PROJECT NUMBER: BA-0171
DRAWN BY: K. CANTU

DATE: OCT. 2019

SHEET 30 OF 53



B68



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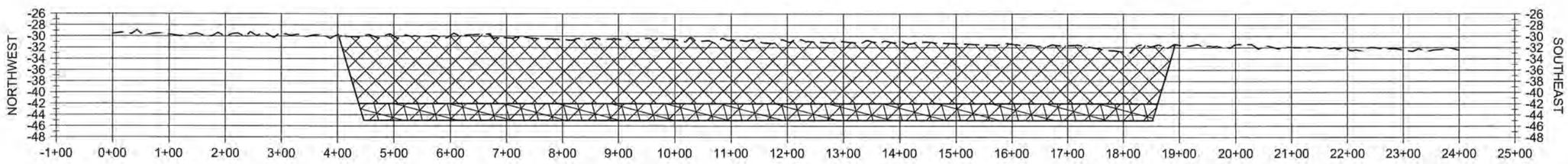

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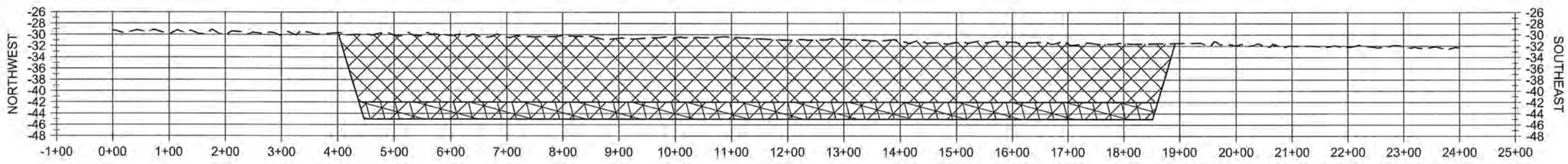


B71

HORIZONTAL GRAPHIC SCALE
200' 100' 0 200' 400'
20' 10' 0 20' 40'
VERTICAL GRAPHIC SCALE

NOTE:
ALL ELEVATIONS ARE GIVEN IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

STATE OF LOUISIANA
SHANNON McCLAIN HAYNES
License No. 30552
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING

STATE OF LOUISIANA
AMANDA M. TAYLOR
License No. 41999
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
10/30/19

LEGEND
BORROW AREA
OVER DREDGE
EXISTING WATER BOTTOM

REV.	DATE	DESCRIPTION	BY

COASTAL PROTECTION AND RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

BORROW AREA SECTIONS

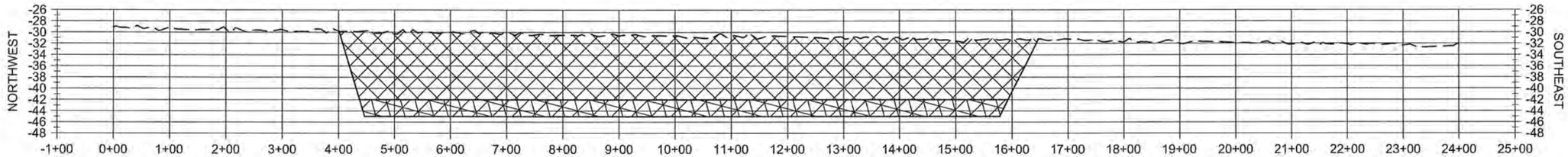
DESIGNED BY: A. TAYLOR, P.E.
APPROVED BY: S. HAYNES, P.E.

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT

STATE PROJECT NUMBER: BA-0171
DRAWN BY: K. CANTU

DATE: OCT. 2019

SHEET 31 OF 53



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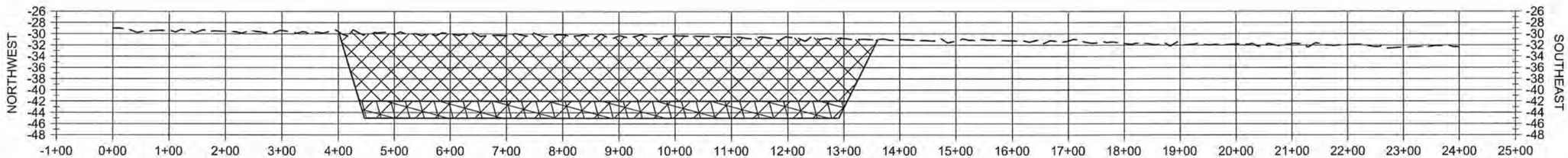

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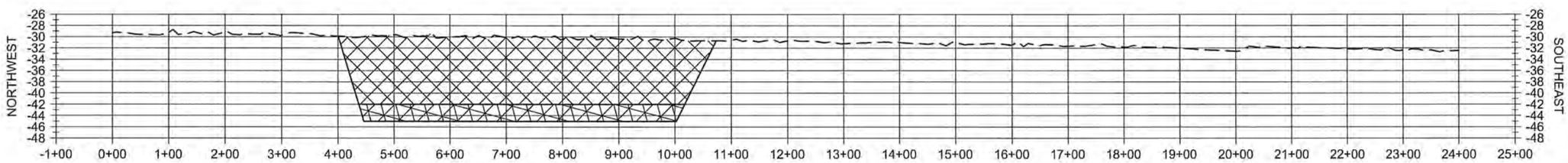

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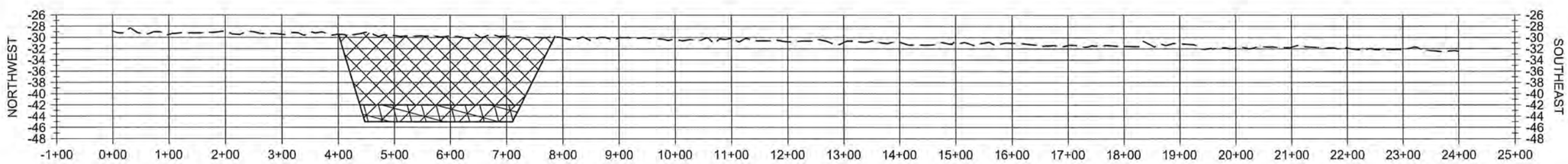

B75

HORIZONTAL GRAPHIC SCALE
200' 100' 0 200' 400'
20' 10' 0 20' 40'
VERTICAL GRAPHIC SCALE

NOTE:
ALL ELEVATIONS ARE GIVEN IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

STATE OF LOUISIANA
SHANNON McCLAIN HAYNES
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10/30/19

STATE OF LOUISIANA
AMANDA M. TAYLOR
License No. 41999
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
Amanda Taylor
10/30/19

LEGEND
- BORROW AREA
- OVER DREDGE
- EXISTING WATER BOTTOM

REV.	DATE	DESCRIPTION	BY

COASTAL PROTECTION AND RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

BORROW AREA SECTIONS

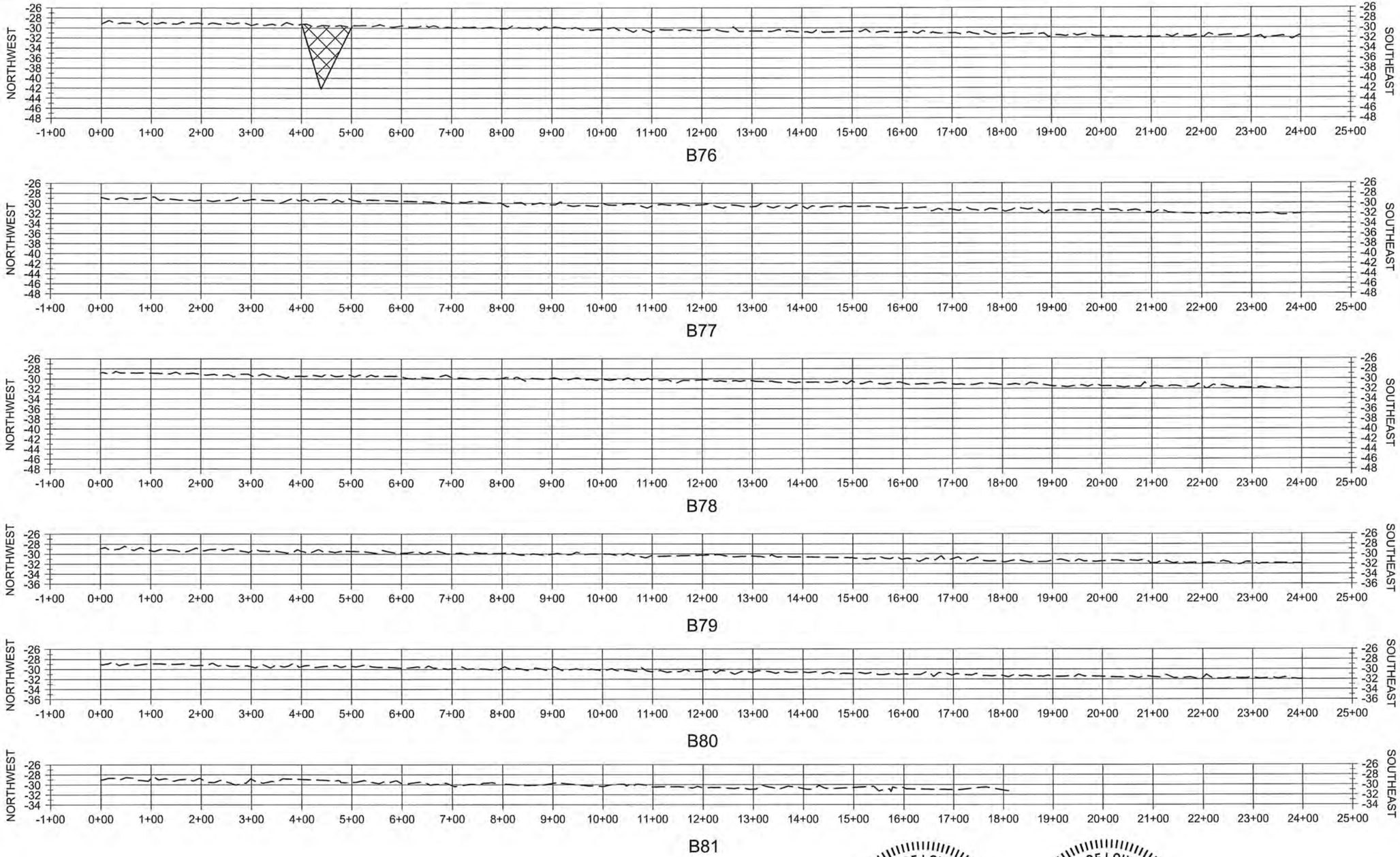
DESIGNED BY: A. TAYLOR, P.E.
APPROVED BY: S. HAYNES, P.E.

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT

STATE PROJECT NUMBER: BA-0171
DRAWN BY: K. CANTU

DATE: OCT. 2019

SHEET 32 OF 53



HORIZONTAL GRAPHIC SCALE
200' 100' 0 200' 400'
20' 10' 0 20' 40'
VERTICAL GRAPHIC SCALE

NOTE:
ALL ELEVATIONS ARE GIVEN IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

STATE OF LOUISIANA
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IN
CIVIL ENGINEERING
10/30/19

STATE OF LOUISIANA
AMANDA M. TAYLOR
License No. 41999
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
10/30/19

LEGEND
- BORROW AREA
- OVER DREDGE
- EXISTING WATER BOTTOM

REV.	DATE	DESCRIPTION	BY

COASTAL PROTECTION AND RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

BORROW AREA SECTIONS

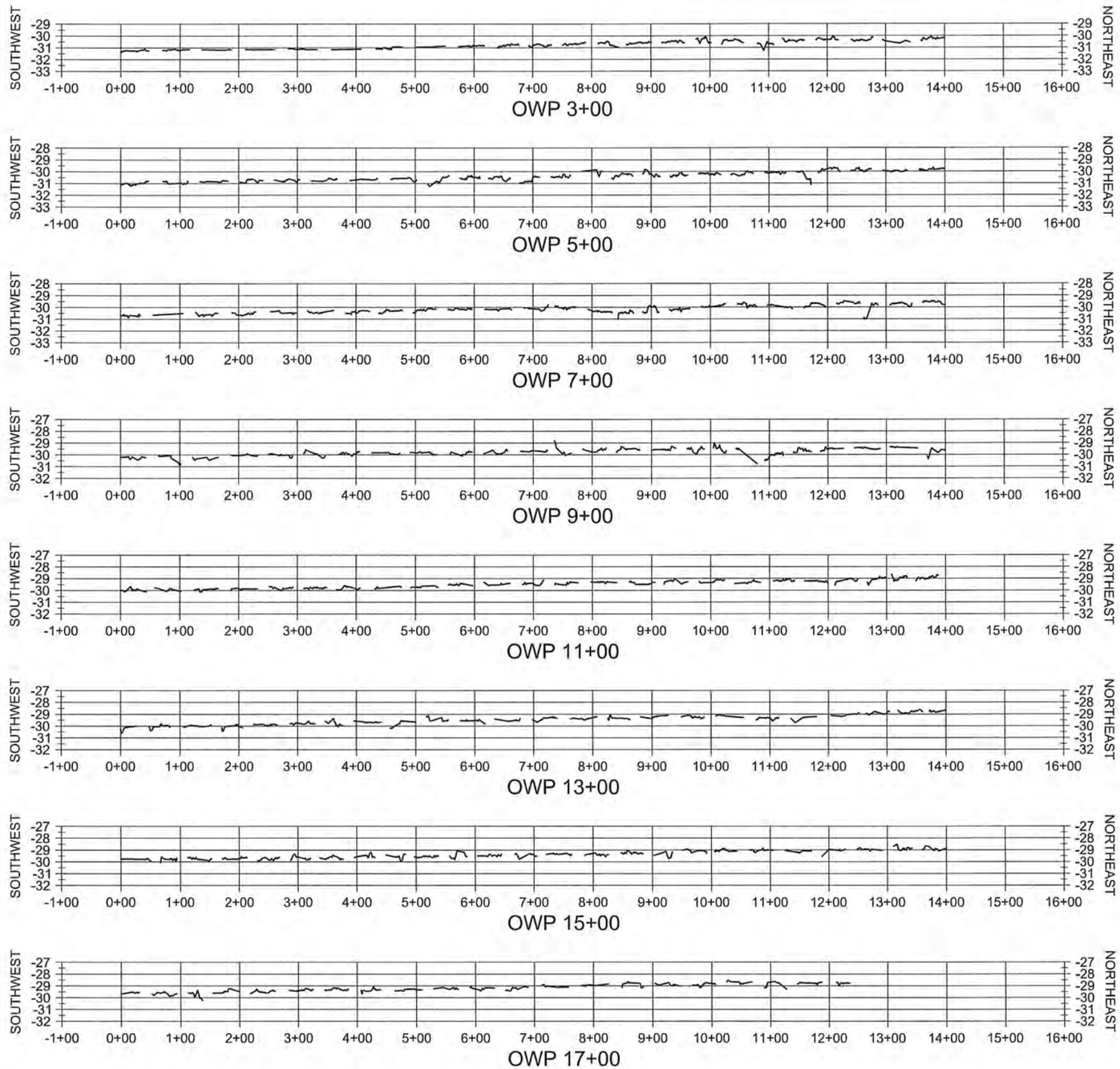
DESIGNED BY: A. TAYLOR, P.E.
APPROVED BY: S. HAYNES, P.E.

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT

STATE PROJECT NUMBER: BA-0171
DRAWN BY: K. CANTU

DATE: OCT. 2019

SHEET 33 OF 53



HORIZONTAL GRAPHIC SCALE
200' 100' 0 200' 400'
10' 5' 0 10' 20'
VERTICAL GRAPHIC SCALE

STATE OF LOUISIANA
SHANNON McCLAIN HAYNES
License No. 30552
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
10/18/2019

STATE OF LOUISIANA
AMANDA M. TAYLOR
License No. 41999
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
Amanda Taylor
10/30/19

LEGEND

— — EXISTING WATER BOTTOM

REV.	DATE	DESCRIPTION	BY

COASTAL PROTECTION AND RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

DREDGE PIPELINE CORRIDOR SECTIONS

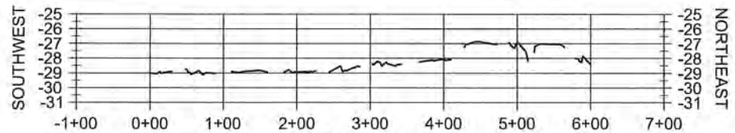
DESIGNED BY: A. TAYLOR, P.E.
APPROVED BY: S. HAYNES, P.E.

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT

STATE PROJECT NUMBER: BA-0171
DRAWN BY: K. CANTU

DATE: OCT. 2019

SHEET 34 OF 53



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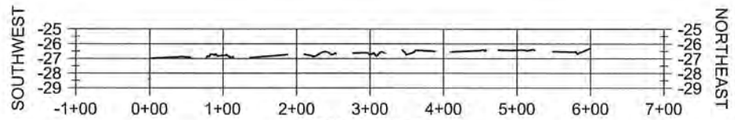
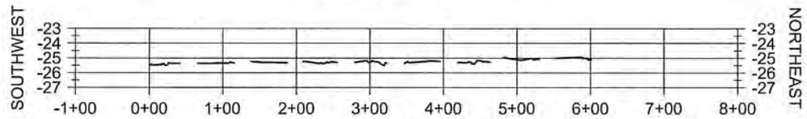


OWC 15+00



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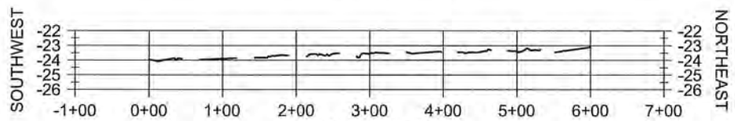

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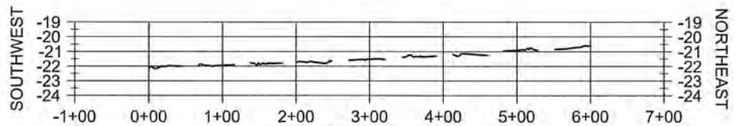

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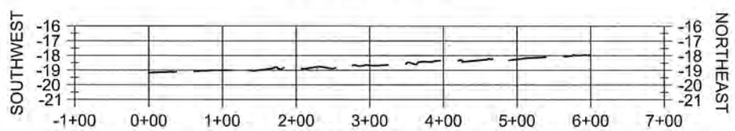
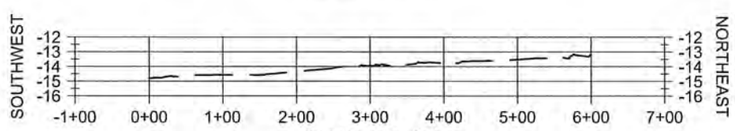


OWC 55+00



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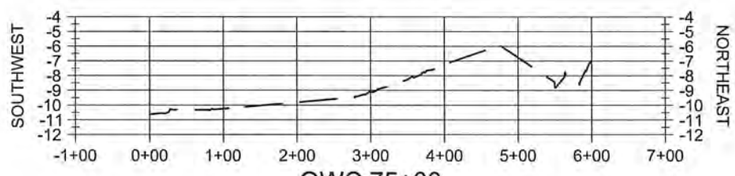
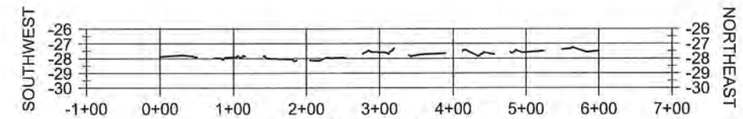
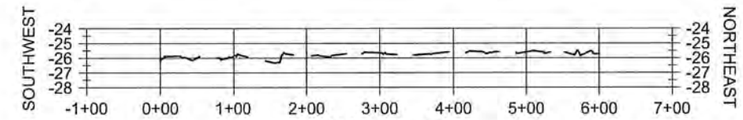


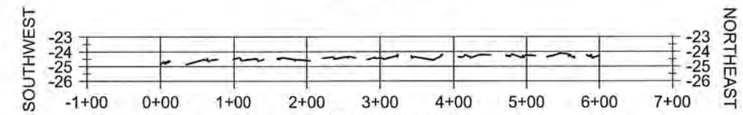
OWC 75+00



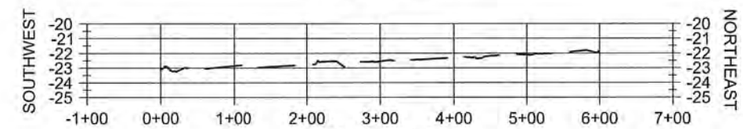
OWC 10+00



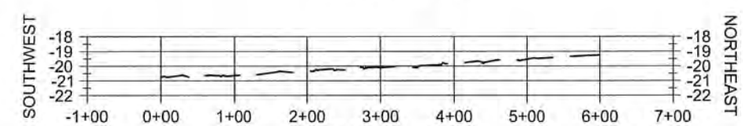
OWC 20+00



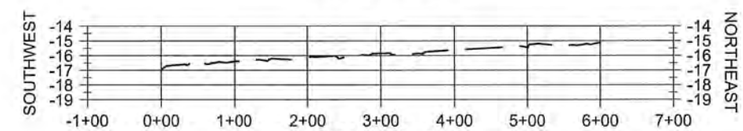
OWC 30+00



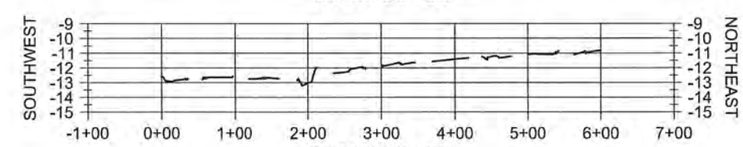
OWC 40+00



OWC 50+00



OWC 60+00



OWC 70+00

HORIZONTAL GRAPHIC SCALE
200' 100' 0 200' 400'
10' 5' 0 10' 20'
VERTICAL GRAPHIC SCALE

NOTE:
ALL ELEVATIONS ARE GIVEN IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

STATE OF LOUISIANA
SHANNON McCLAIN HAYNES
License No. 30552
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
10/30/2019

STATE OF LOUISIANA
AMANDA M. TAYLOR
License No. 41999
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
Amanda Taylor
10/30/19

LEGEND
– – – EXISTING WATER BOTTOM

REV.	DATE	DESCRIPTION	BY

COASTAL PROTECTION AND RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

DREDGE PIPELINE CORRIDOR SECTIONS

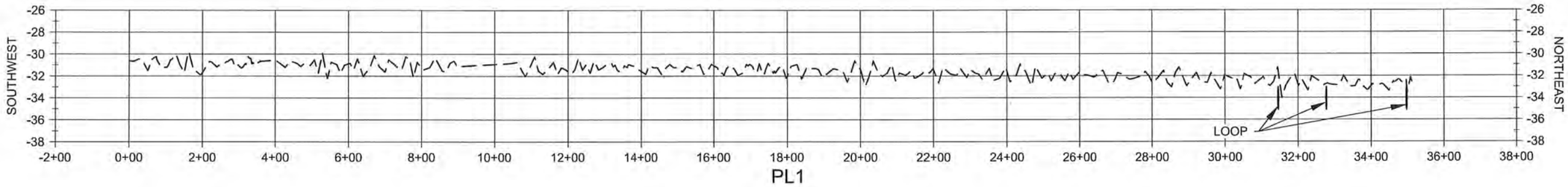
DESIGNED BY: A. TAYLOR, P.E.
APPROVED BY: S. HAYNES, P.E.

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT

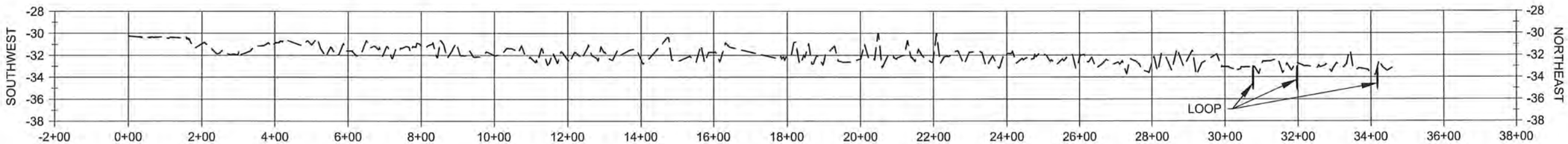
STATE PROJECT NUMBER: BA-0171
DRAWN BY: K. CANTU

DATE: OCT. 2019

SHEET 35 OF 53



PL1



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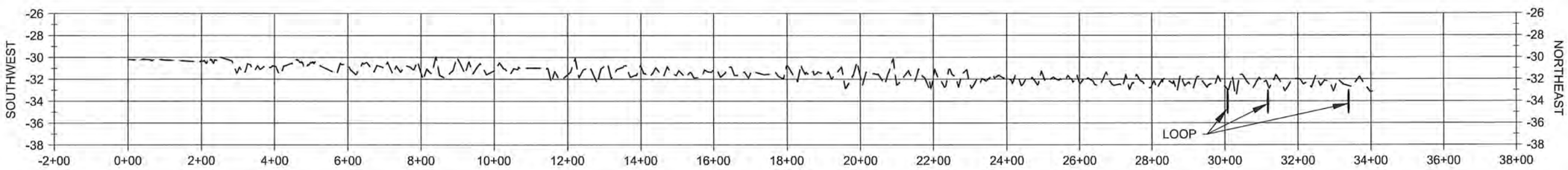

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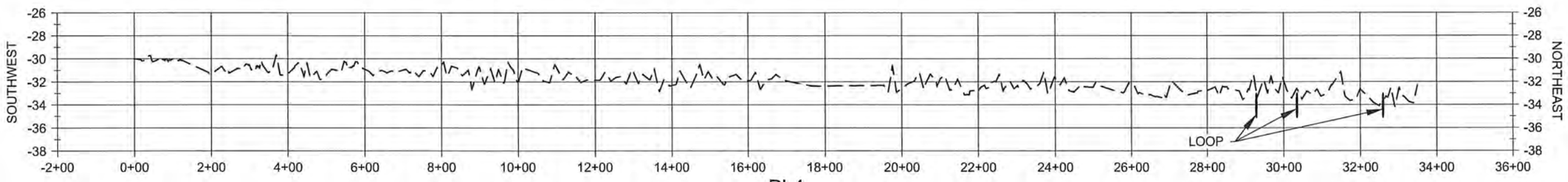

PL4

HORIZONTAL GRAPHIC SCALE

300' 150' 0 300' 600'

10' 5' 0 10' 20'

VERTICAL GRAPHIC SCALE

NOTE:
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STATE OF LOUISIANA
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10/30/2019

STATE OF LOUISIANA
AMANDA M. TAYLOR
License No. 41999
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING

Amanda Taylor
10/30/19

LEGEND

- - - EXISTING GROUND

| PIPELINE

REV.	DATE	DESCRIPTION	BY

COASTAL PROTECTION AND RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

DREDGE PIPELINE CORRIDOR SECTIONS

DESIGNED BY: A. TAYLOR, P.E.

APPROVED BY: S. HAYNES, P.E.

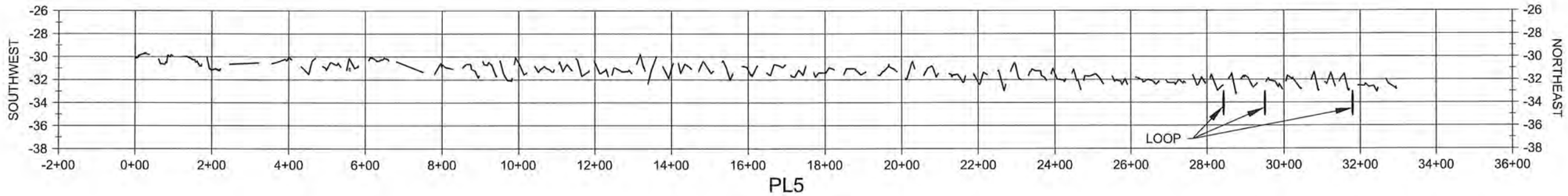
CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT

STATE PROJECT NUMBER: BA-0171

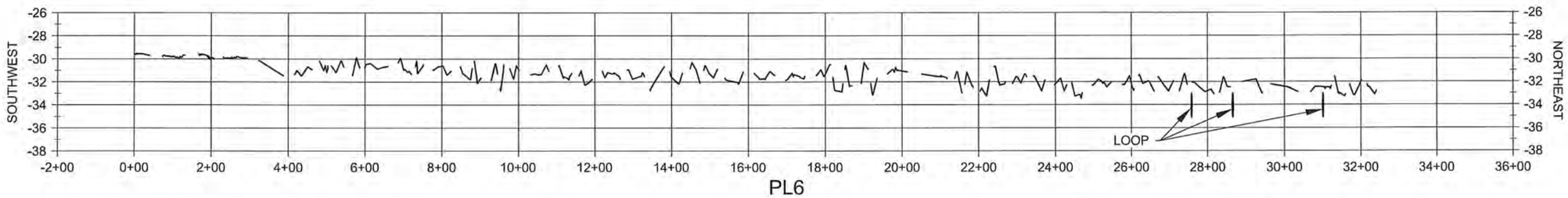
DRAWN BY: K. CANTU

DATE: OCT. 2019

SHEET 36 OF 53



PL5



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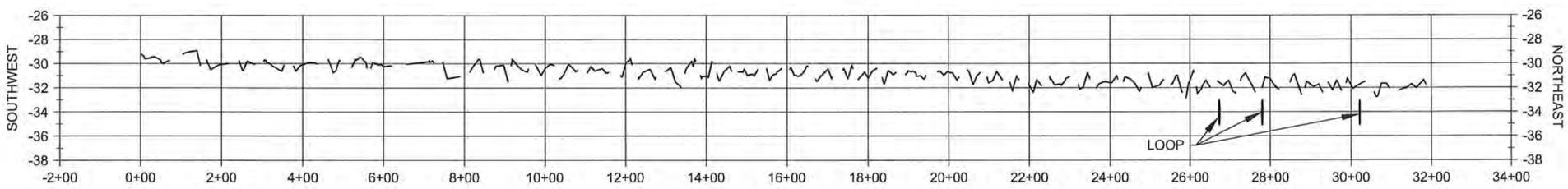

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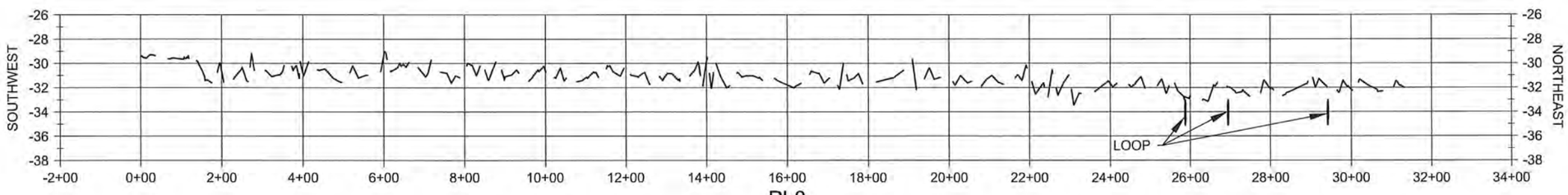

PL8

HORIZONTAL GRAPHIC SCALE

300' 150' 0 300' 600'

10' 5' 0 10' 20'

VERTICAL GRAPHIC SCALE

NOTE:
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STATE OF LOUISIANA
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10/30/2019

STATE OF LOUISIANA
AMANDA M. TAYLOR
License No. 41999
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING

amanda taylor
10/30/19

LEGEND

EXISTING GROUND

PIPELINE

REV.	DATE	DESCRIPTION	BY

COASTAL PROTECTION AND RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

DREDGE PIPELINE CORRIDOR SECTIONS

DESIGNED BY: A. TAYLOR, P.E.

APPROVED BY: S. HAYNES, P.E.

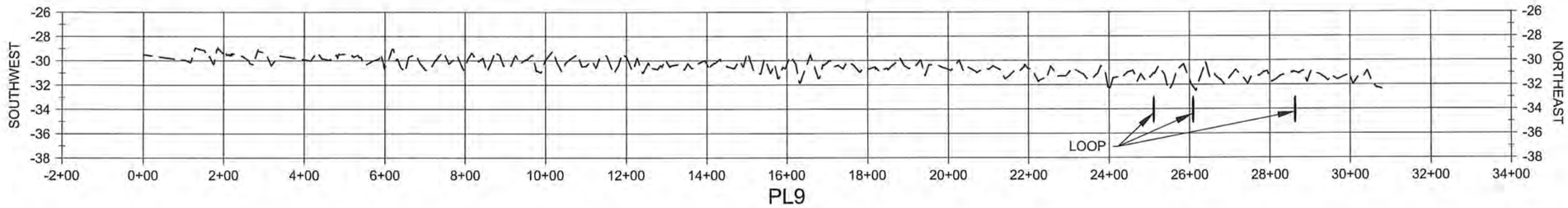
CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT

STATE PROJECT NUMBER: BA-0171

DRAWN BY: K. CANTU

DATE: OCT. 2019

SHEET 37 OF 53



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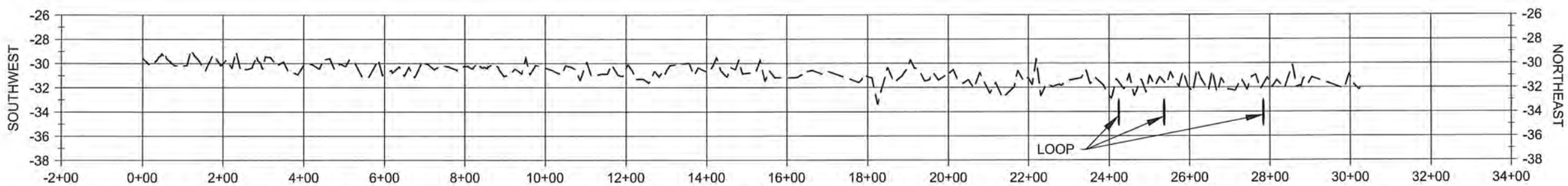
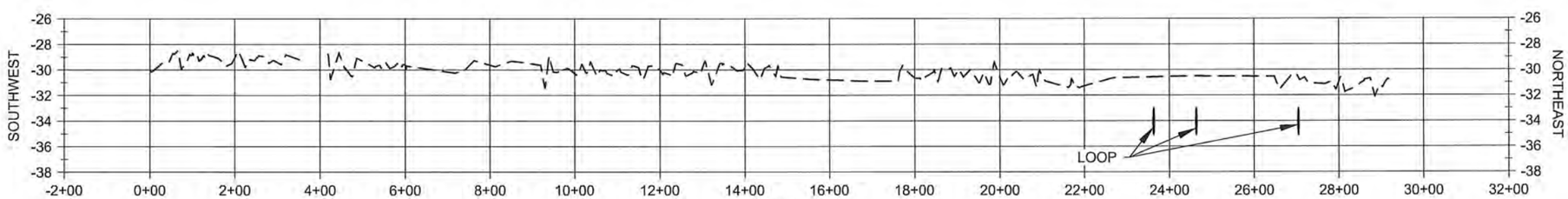


PL10



PL11

HORIZONTAL GRAPHIC SCALE

300' 150' 0 300' 600'

10' 5' 0 10' 20'

VERTICAL GRAPHIC SCALE

NOTE:
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STATE OF LOUISIANA
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10/30/2019

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AMANDA M. TAYLOR
License No. 41999
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
Amanda Taylor
10/30/19

LEGEND	
- - -	EXISTING GROUND
|	PIPELINE

REV.	DATE	DESCRIPTION	BY

COASTAL PROTECTION AND RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

DREDGE PIPELINE CORRIDOR SECTIONS

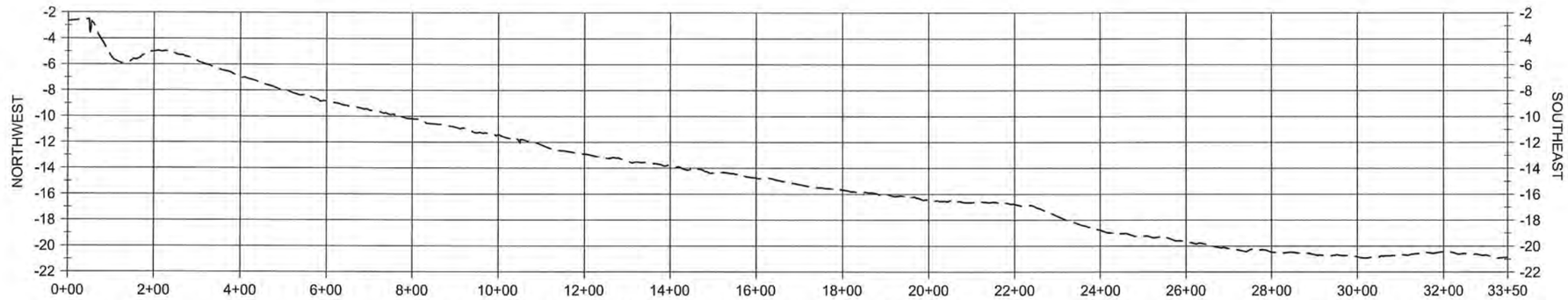
DESIGNED BY: A. TAYLOR, P.E.
APPROVED BY: S. HAYNES, P.E.

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT

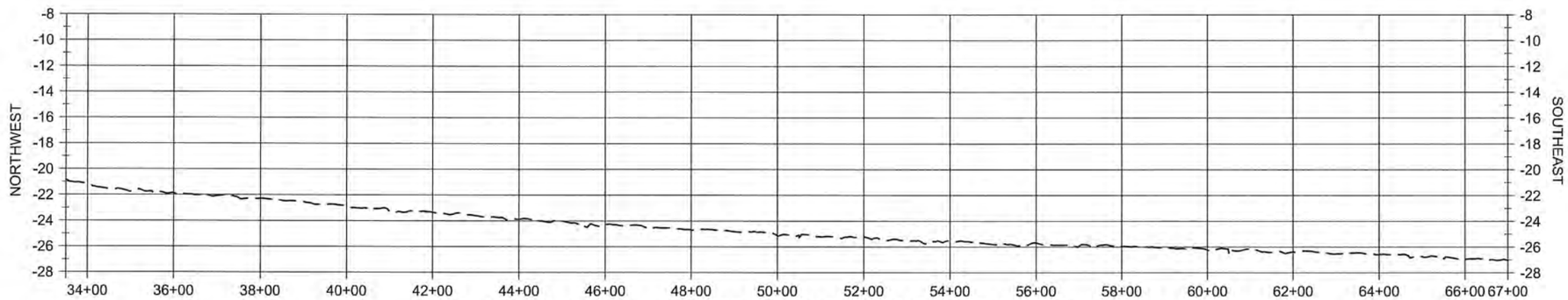
STATE PROJECT NUMBER: BA-0171
DRAWN BY: K. CANTU

DATE: OCT. 2019

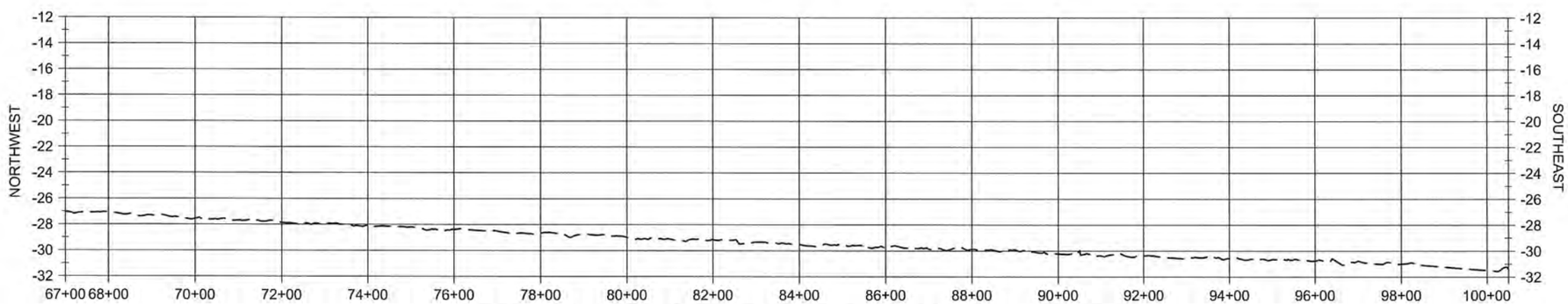
SHEET 38 OF 53



OFFSHORE NO. 2 CONVEYANCE CORRIDOR



OFFSHORE NO. 2 CONVEYANCE CORRIDOR CONTINUED



OFFSHORE NO. 2 CONVEYANCE CORRIDOR CONTINUED

HORIZONTAL GRAPHIC SCALE
300' 150' 0 300' 600'
10' 5' 0 10' 20'
VERTICAL GRAPHIC SCALE

NOTE:
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STATE OF LOUISIANA
SHANNON McCLAIN HAYNES
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10/30/19

STATE OF LOUISIANA
AMANDA M. TAYLOR
License No. 41999
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
10/30/19

LEGEND
– – – EXISTING GROUND

REV.	DATE	DESCRIPTION	BY

COASTAL PROTECTION AND RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

DREDGE PIPELINE CORRIDOR SECTIONS

DESIGNED BY: A. TAYLOR, P.E.
APPROVED BY: S. HAYNES, P.E.

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT

STATE PROJECT NUMBER: BA-0171
DRAWN BY: K. CANTU

DATE: OCT. 2019

SHEET 39 OF 53

HORIZONTAL GRAPHIC SCALE
200' 100' 0 200' 400'
10' 5' 0 10' 20'
VERTICAL GRAPHIC SCALE

NOTE:
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IN
CIVIL ENGINEERING
10/30/19

LEGEND
— — — EXISTING WATER BOTTOM

REV.	DATE	DESCRIPTION	BY

COASTAL PROTECTION AND RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

DREDGE PIPELINE CORRIDOR SECTIONS

DESIGNED BY: A. TAYLOR, P.E.
APPROVED BY: S. HAYNES, P.E.

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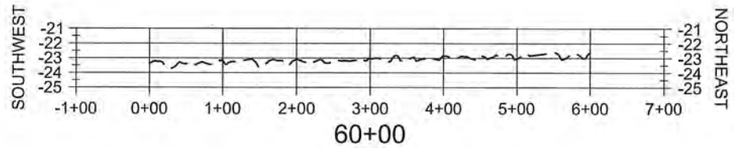
STATE PROJECT NUMBER: BA-0171
DRAWN BY: K. CANTU

DATE: OCT. 2019



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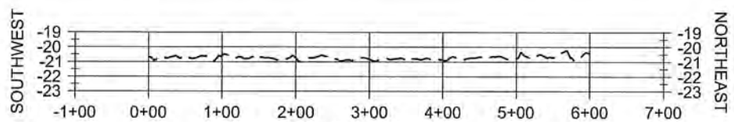

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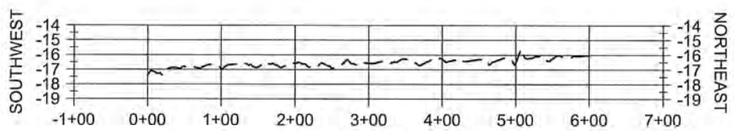

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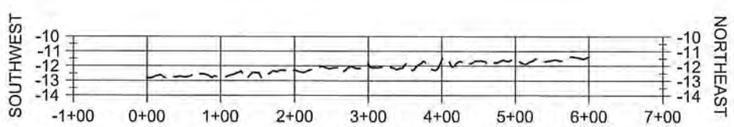

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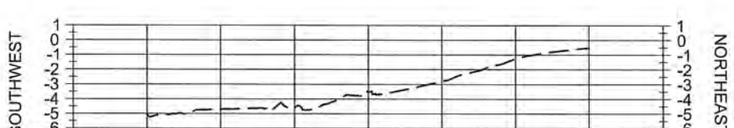

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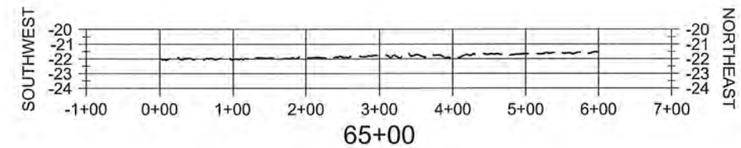

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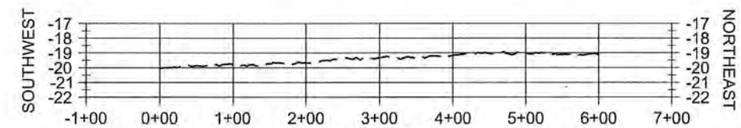
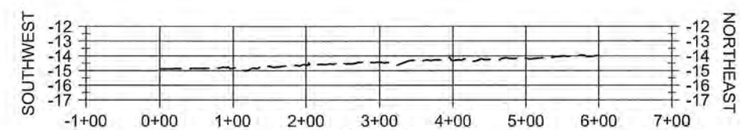
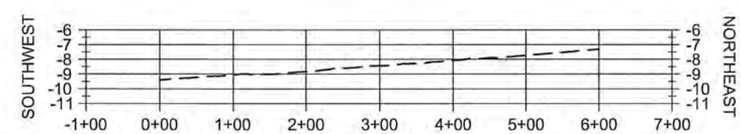


75+00



85+00



95+00

HORIZONTAL GRAPHIC SCALE
200' 100' 0 200' 400'
10' 5' 0 10' 20'
VERTICAL GRAPHIC SCALE

NOTE:
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10/30/19

LEGEND
– – – EXISTING WATER BOTTOM

REV.	DATE	DESCRIPTION	BY

COASTAL PROTECTION AND RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

DREDGE PIPELINE CORRIDOR SECTIONS

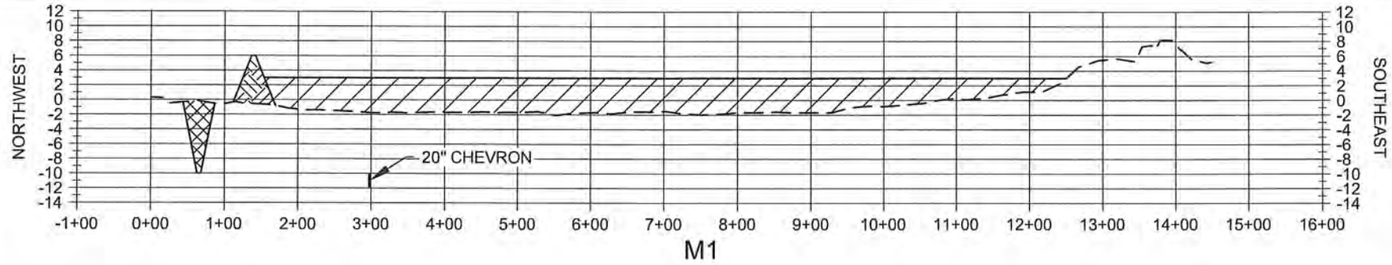
DESIGNED BY: A. TAYLOR, P.E.
APPROVED BY: S. HAYNES, P.E.

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT

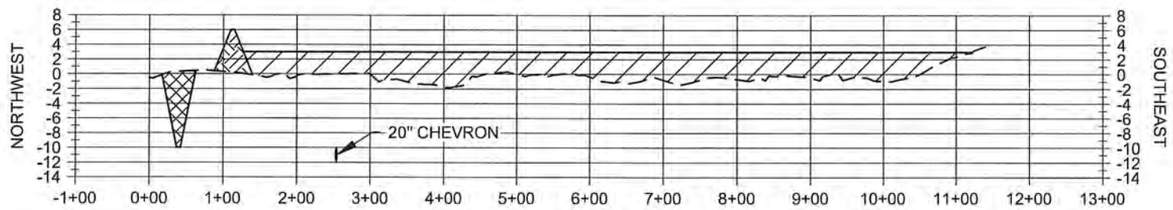
STATE PROJECT NUMBER: BA-0171
DRAWN BY: K. CANTU

DATE: OCT. 2019

SHEET 41 OF 53



M1



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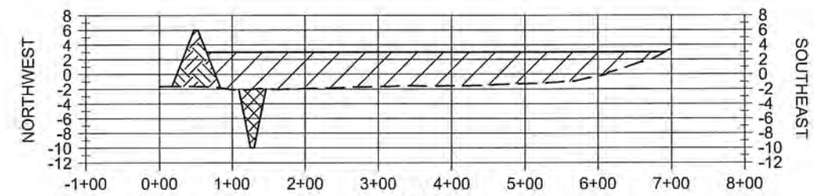
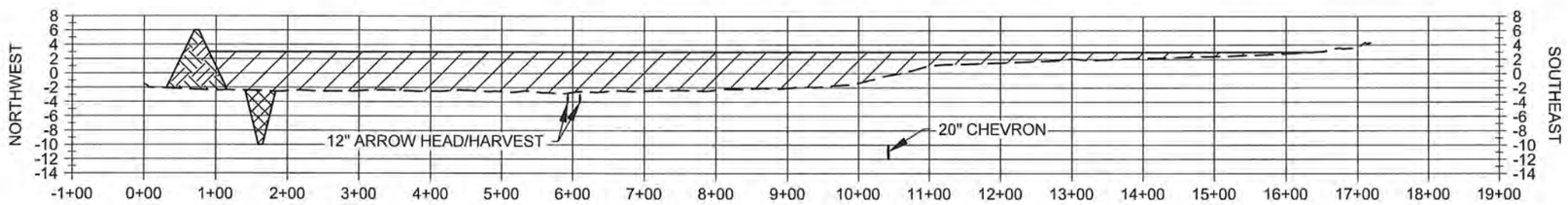


M3



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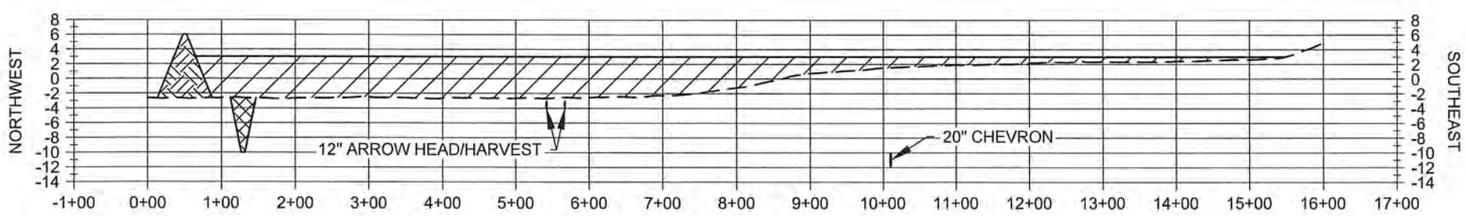

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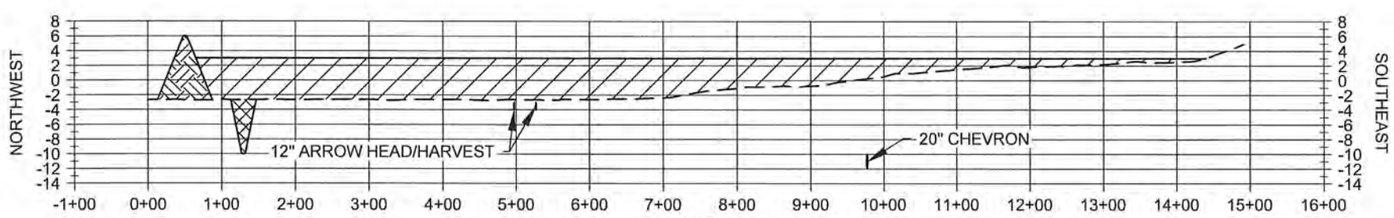

M6

HORIZONTAL GRAPHIC SCALE
200' 100' 0 200' 400'
20' 10' 0 20' 40'
VERTICAL GRAPHIC SCALE

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10/30/19

LEGEND

- EARTHEN CONTAINMENT DIKE
- EARTHEN CONTAINMENT DIKE BORROW AREA
- MARSH CREATION FILL
- EXISTING GROUND
- PIPELINE

REV.	DATE	DESCRIPTION	BY

COASTAL PROTECTION AND RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

MARSH CREATION AREA SECTIONS

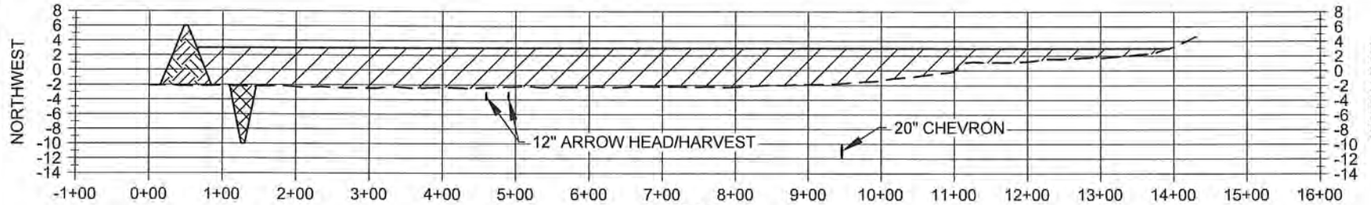
DESIGNED BY: A. TAYLOR, P.E.
APPROVED BY: S. HAYNES, P.E.

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT

STATE PROJECT NUMBER: BA-0171
DRAWN BY: K. CANTU

DATE: OCT. 2019

SHEET 42 OF 53



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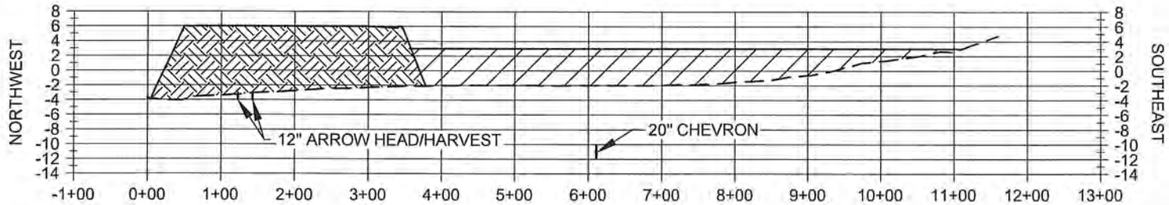

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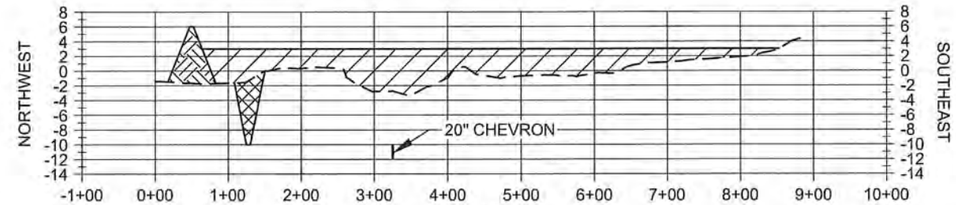

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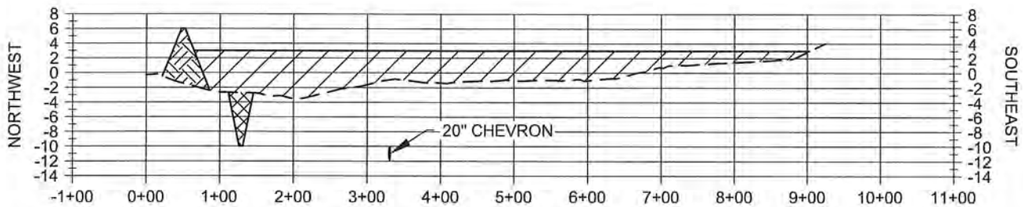

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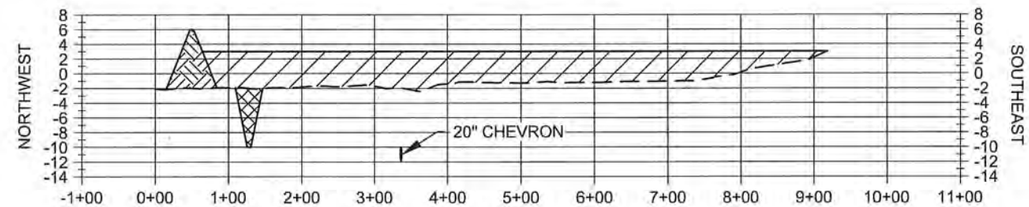

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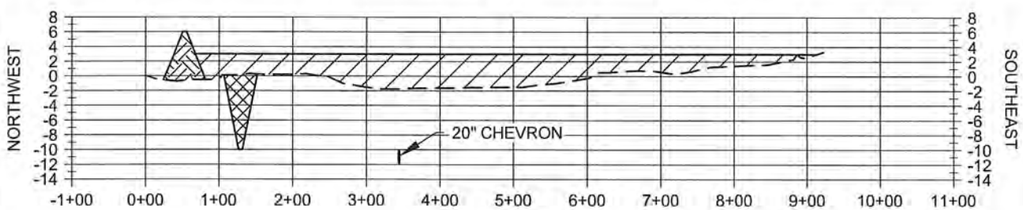

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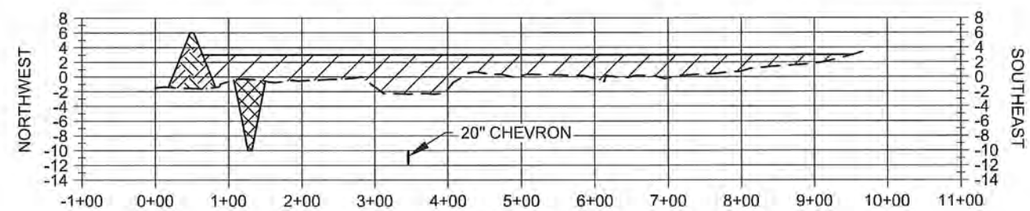

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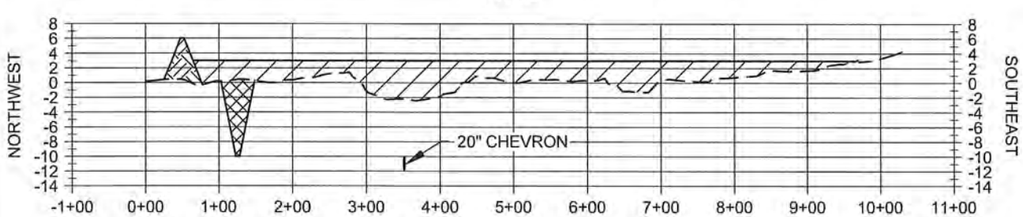

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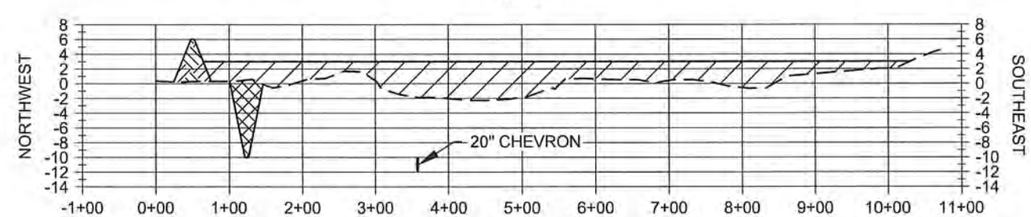

M15

HORIZONTAL GRAPHIC SCALE
200' 100' 0 200' 400'
20' 10' 0 20' 40'
VERTICAL GRAPHIC SCALE

NOTE:
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10/30/19

LEGEND

- EARTHEN CONTAINMENT DIKE
- EARTHEN CONTAINMENT DIKE BORROW AREA
- MARSH CREATION FILL
- EXISTING GROUND
- PIPELINE

REV.	DATE	DESCRIPTION	BY

COASTAL PROTECTION AND RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

MARSH CREATION AREA SECTIONS

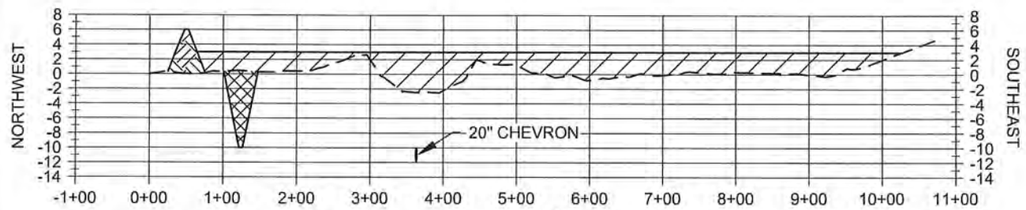
DESIGNED BY: A. TAYLOR, P.E.
APPROVED BY: S. HAYNES, P.E.

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT

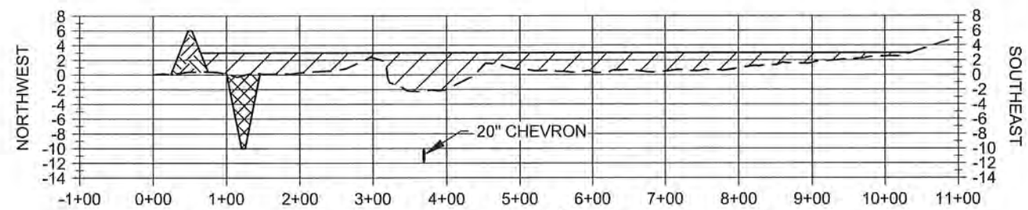
STATE PROJECT NUMBER: BA-0171
DRAWN BY: K. CANTU

DATE: OCT. 2019

SHEET 43 OF 53



M16



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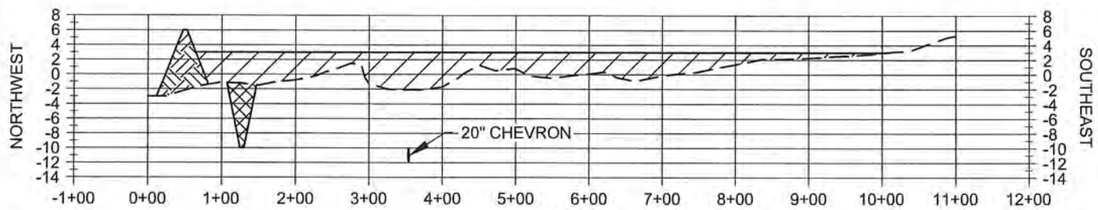

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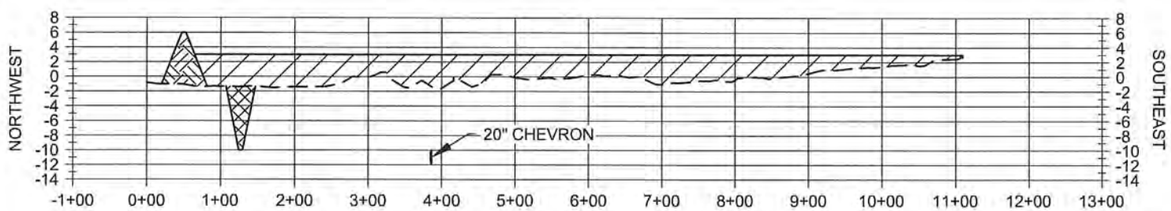

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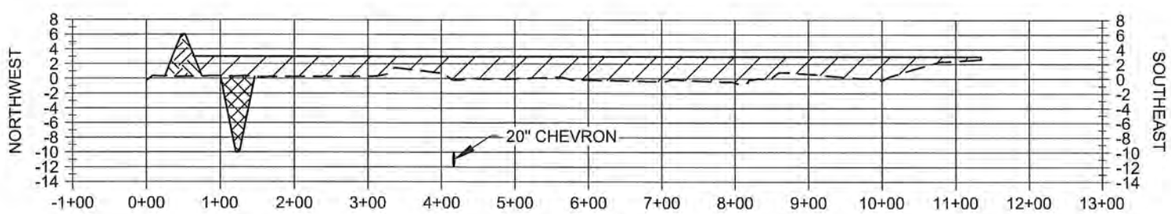

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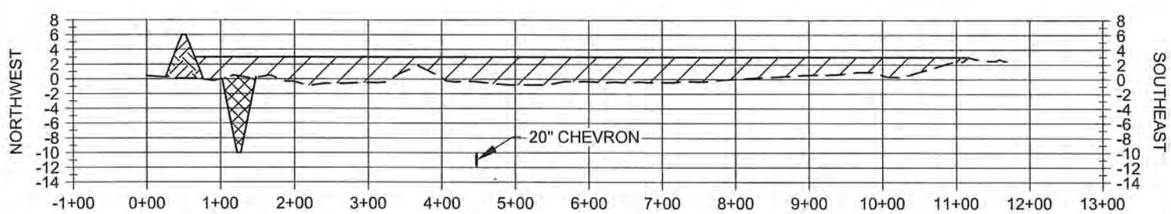

M21

HORIZONTAL GRAPHIC SCALE
200' 100' 0 200' 400'
20' 10' 0 20' 40'
VERTICAL GRAPHIC SCALE

NOTE:
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10/30/19

LEGEND

- EARTHEN CONTAINMENT DIKE
- EARTHEN CONTAINMENT DIKE BORROW AREA
- MARSH CREATION FILL
- EXISTING GROUND
- PIPELINE

REV.	DATE	DESCRIPTION	BY

COASTAL PROTECTION AND RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

MARSH CREATION AREA SECTIONS

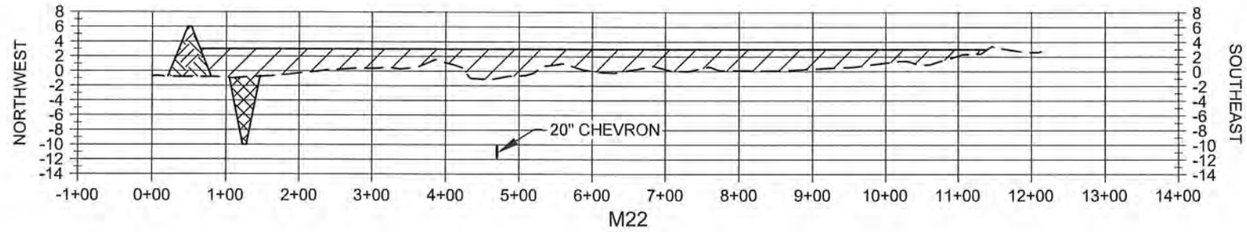
DESIGNED BY: A. TAYLOR, P.E.
APPROVED BY: S. HAYNES, P.E.

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT

STATE PROJECT NUMBER: BA-0171
DRAWN BY: K. CANTU

DATE: OCT. 2019

SHEET 44 OF 53



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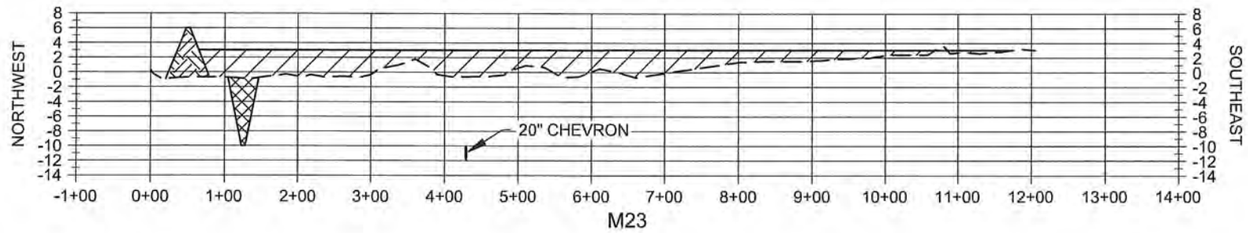

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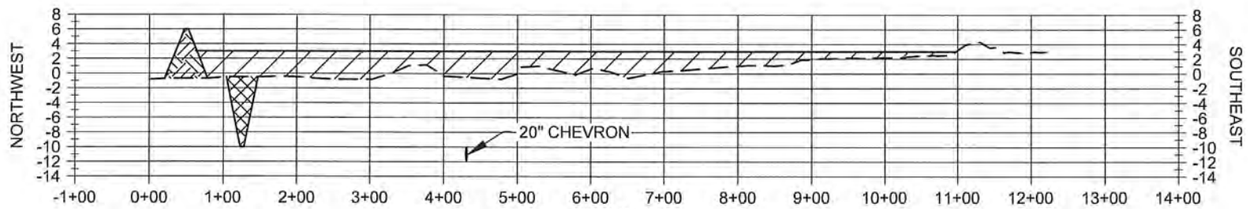

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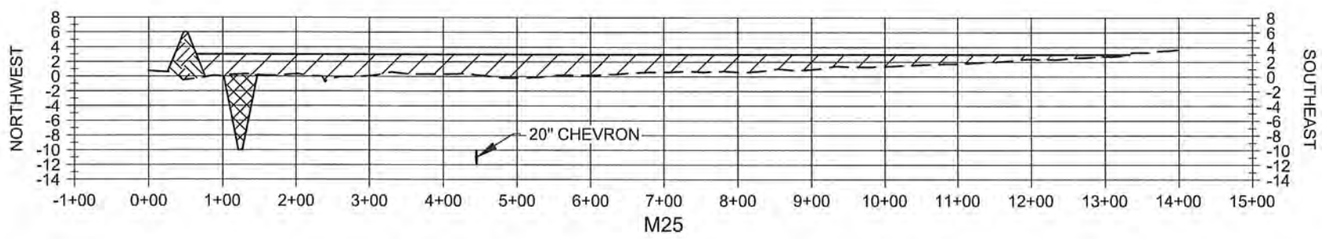

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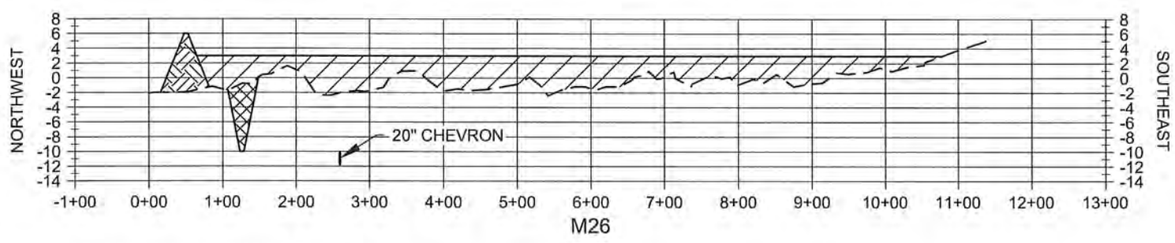

M26

HORIZONTAL GRAPHIC SCALE
200' 100' 0 200' 400'
20' 10' 0 20' 40'
VERTICAL GRAPHIC SCALE

NOTE:
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10/30/19

LEGEND

- EARTHEN CONTAINMENT DIKE
- EARTHEN CONTAINMENT DIKE BORROW AREA
- MARSH CREATION FILL
- EXISTING GROUND
- PIPELINE

REV.	DATE	DESCRIPTION	BY

COASTAL PROTECTION AND RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

MARSH CREATION AREA SECTIONS

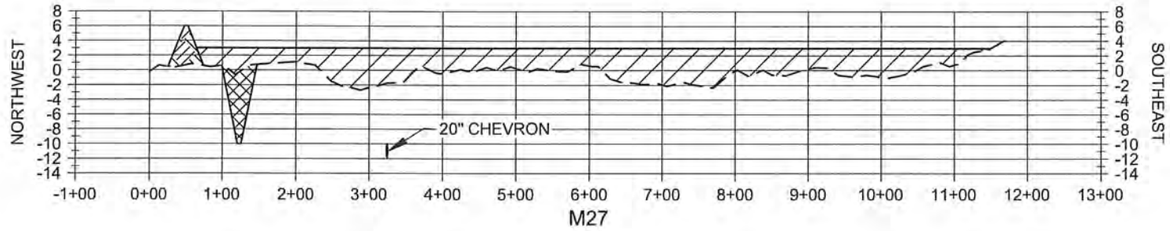
DESIGNED BY: A. TAYLOR, P.E.
APPROVED BY: S. HAYNES, P.E.

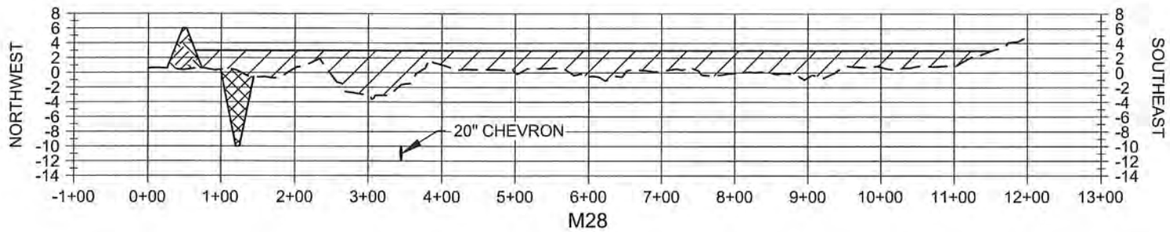
CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT

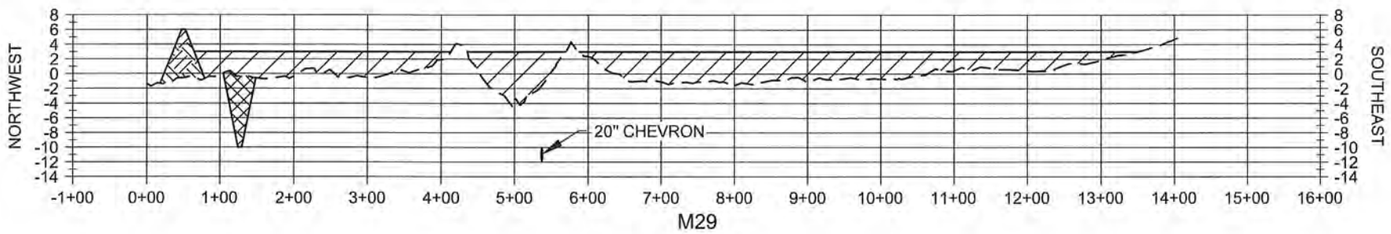
STATE PROJECT NUMBER: BA-0171
DRAWN BY: K. CANTU

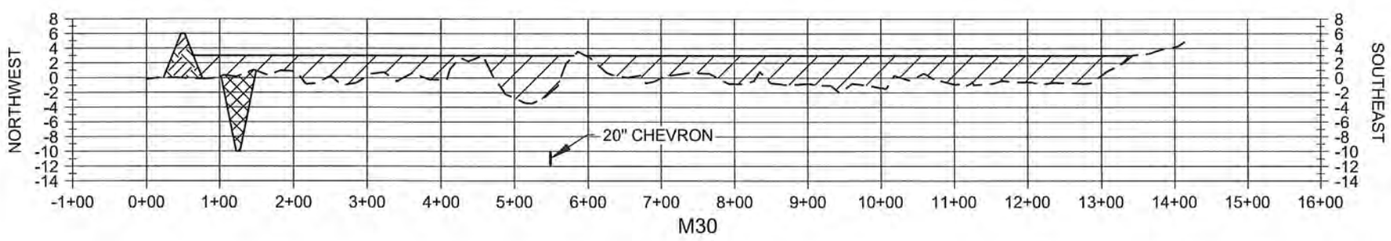
DATE: OCT. 2019

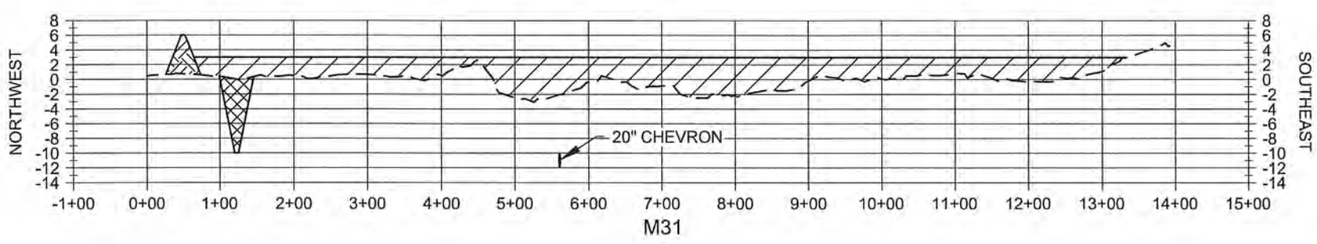
SHEET 45 OF 53











HORIZONTAL GRAPHIC SCALE
200' 100' 0 200' 400'
20' 10' 0 20' 40'
VERTICAL GRAPHIC SCALE

NOTE:
ALL ELEVATIONS ARE GIVEN IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

STATE OF LOUISIANA
SHANNON McCLAIN HAYNES
License No. 30552
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
10/30/19

STATE OF LOUISIANA
AMANDA M. TAYLOR
License No. 41999
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
Amanda Taylor
10/30/19

LEGEND

- EARTHEN CONTAINMENT DIKE
- EARTHEN CONTAINMENT DIKE BORROW AREA
- MARSH CREATION FILL
- EXISTING GROUND
- PIPELINE

REV.	DATE	DESCRIPTION	BY

COASTAL PROTECTION AND RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

MARSH CREATION AREA SECTIONS

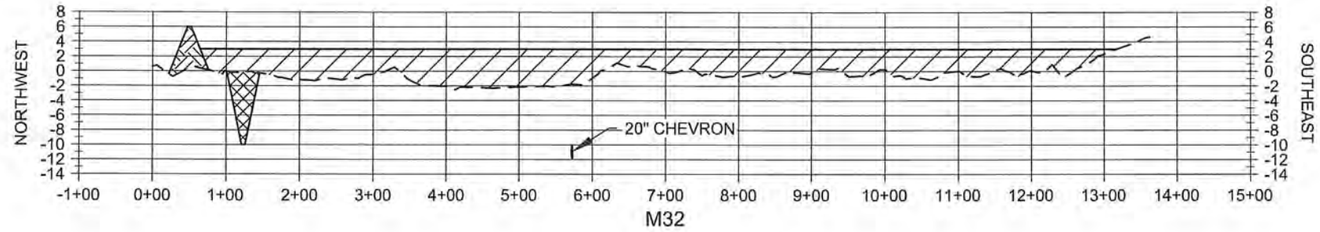
DESIGNED BY: A. TAYLOR, P.E.
APPROVED BY: S. HAYNES, P.E.

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT

STATE PROJECT NUMBER: BA-0171
DRAWN BY: K. CANTU

DATE: OCT. 2019

SHEET 46 OF 53



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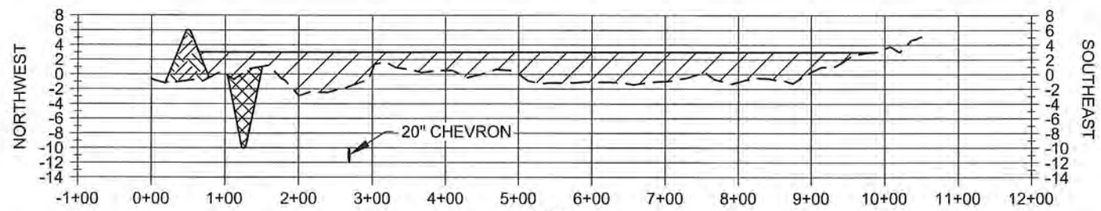

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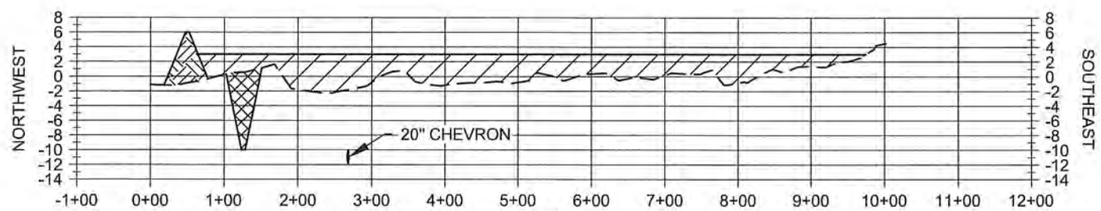

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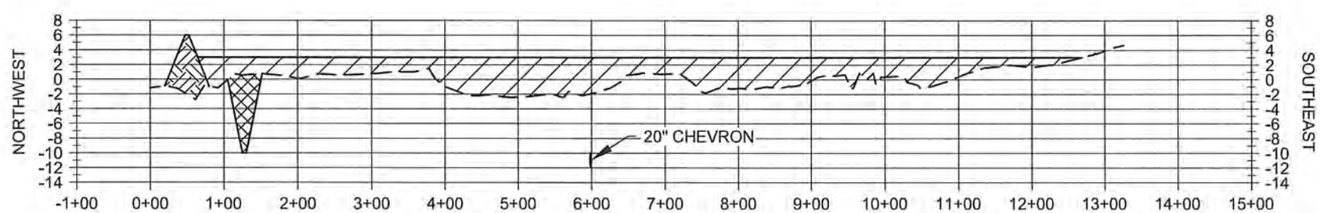

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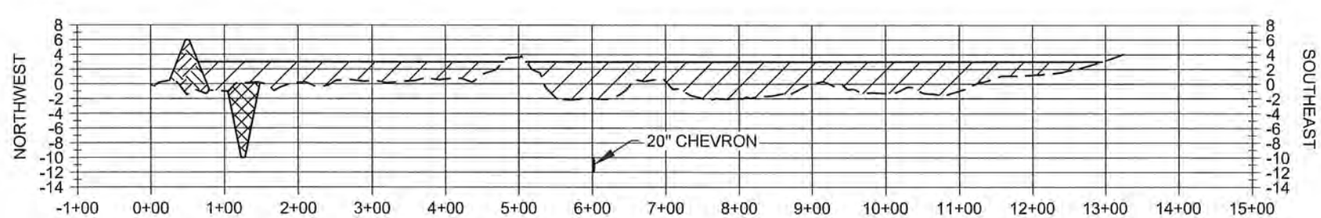

M36

HORIZONTAL GRAPHIC SCALE
200' 100' 0 200' 400'
20' 10' 0 20' 40'
VERTICAL GRAPHIC SCALE

NOTE:
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STATE OF LOUISIANA
AMANDA M. TAYLOR
License No. 41999
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
10/30/19

LEGEND

- EARTHEN CONTAINMENT DIKE
- EARTHEN CONTAINMENT DIKE BORROW AREA
- MARSH CREATION FILL
- EXISTING GROUND
- PIPELINE

REV.	DATE	DESCRIPTION	BY

COASTAL PROTECTION AND RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

MARSH CREATION AREA SECTIONS

DESIGNED BY: A. TAYLOR, P.E.
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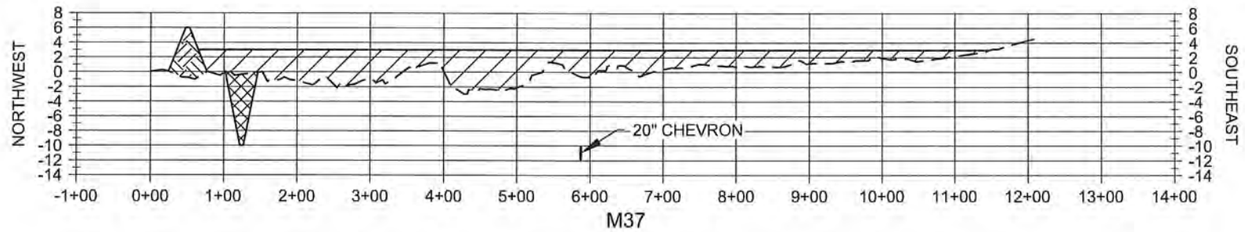
CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT

STATE PROJECT NUMBER BA-0171
DRAWN BY: K. CANTU

DATE: OCT. 2019

SHEET 47 OF 53



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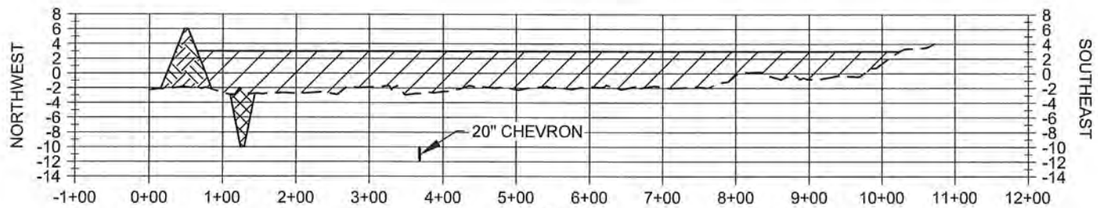

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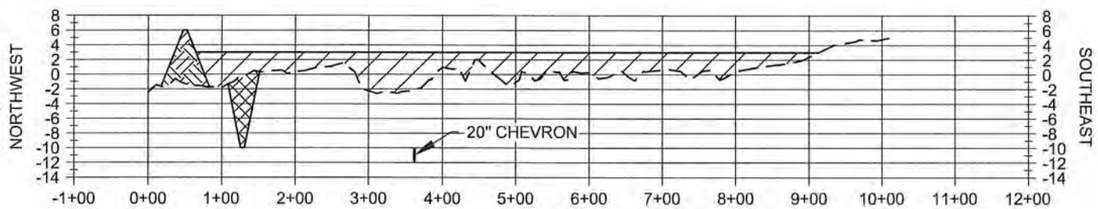

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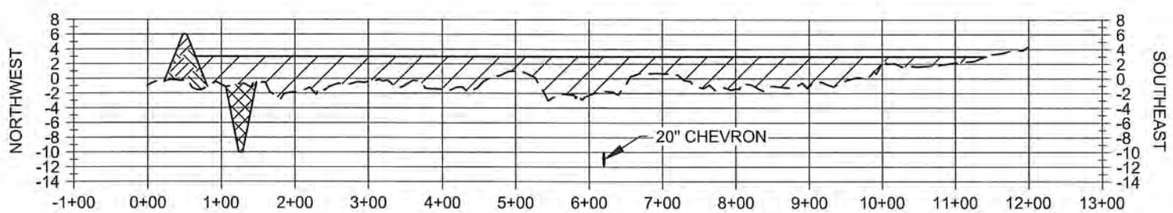

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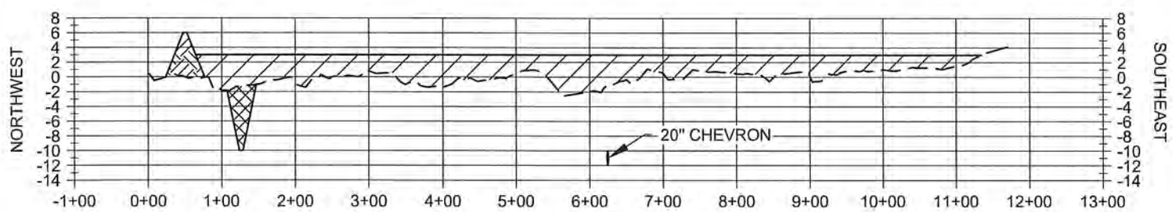

M41

HORIZONTAL GRAPHIC SCALE

200' 100' 0 200' 400'

20' 10' 0 20' 40'

VERTICAL GRAPHIC SCALE

NOTE:
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STATE OF LOUISIANA
AMANDA M. TAYLOR
License No. 41999
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
10/30/19

LEGEND

- EARTHEN CONTAINMENT DIKE
- EARTHEN CONTAINMENT DIKE BORROW AREA
- MARSH CREATION FILL
- EXISTING GROUND
- PIPELINE

REV.	DATE	DESCRIPTION	BY

COASTAL PROTECTION AND RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

MARSH CREATION AREA SECTIONS

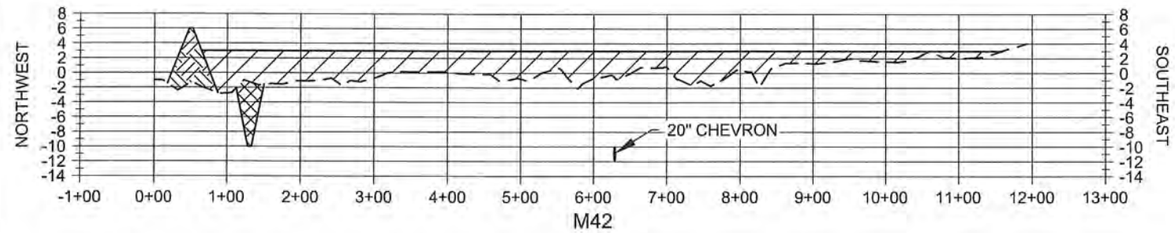
DESIGNED BY: A. TAYLOR, P.E.
APPROVED BY: S. HAYNES, P.E.

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT

STATE PROJECT NUMBER: BA-0171
DRAWN BY: K. CANTU

DATE: OCT. 2019

SHEET 48 OF 53



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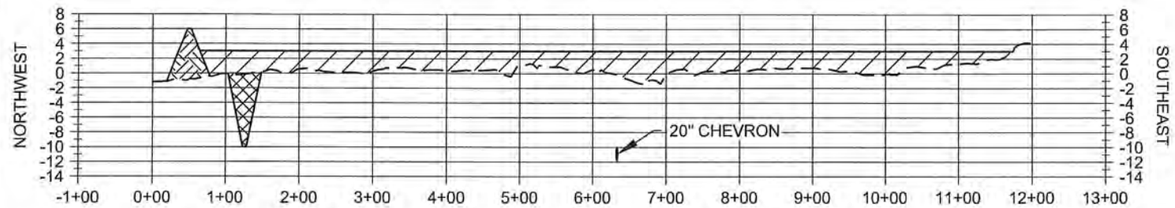

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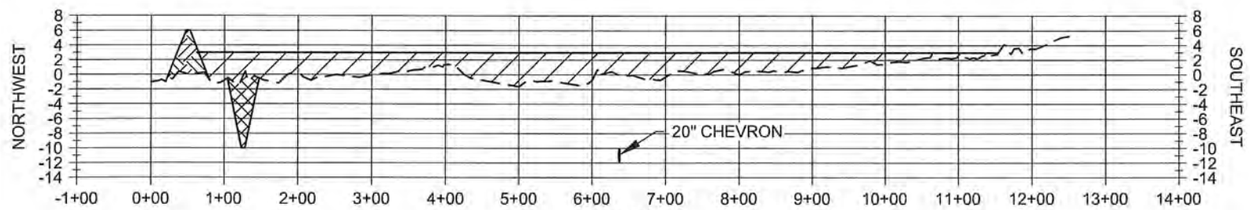

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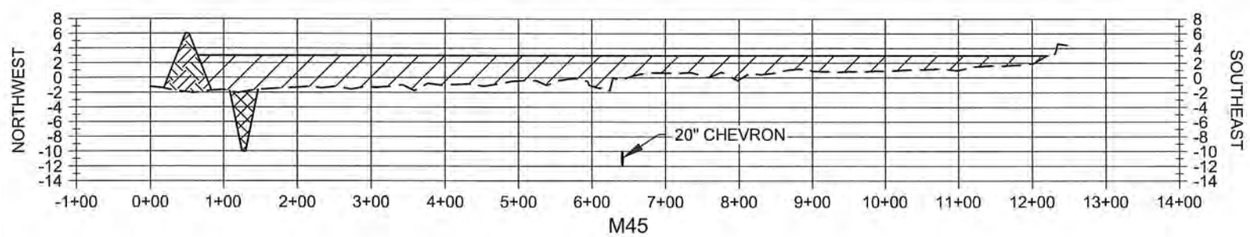

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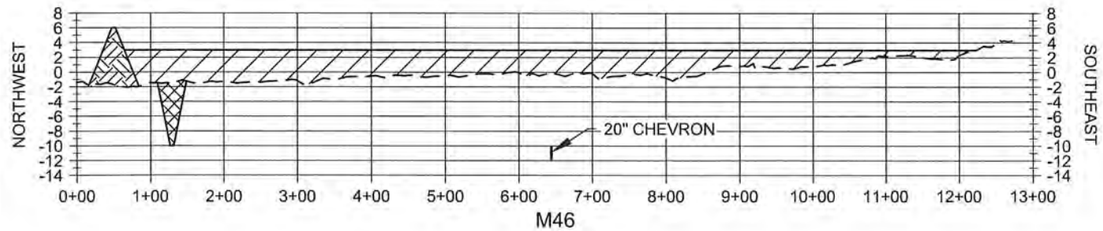

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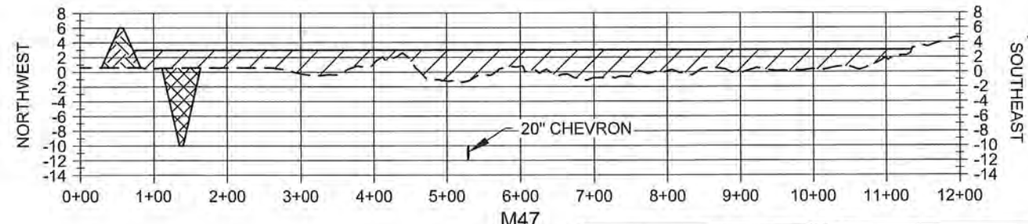

M47

HORIZONTAL GRAPHIC SCALE
200' 100' 0 200' 400'
20' 10' 0 20' 40'
VERTICAL GRAPHIC SCALE

NOTE:
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AMANDA M. TAYLOR
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IN
CIVIL ENGINEERING
10/30/19

LEGEND

- EARTHEN CONTAINMENT DIKE
- EARTHEN CONTAINMENT DIKE BORROW AREA
- MARSH CREATION FILL
- EXISTING GROUND
- PIPELINE

REV.	DATE	DESCRIPTION	BY

COASTAL PROTECTION AND RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

MARSH CREATION AREA SECTIONS

DESIGNED BY: A. TAYLOR, P.E.
APPROVED BY: S. HAYNES, P.E.

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT

STATE PROJECT NUMBER: BA-0171
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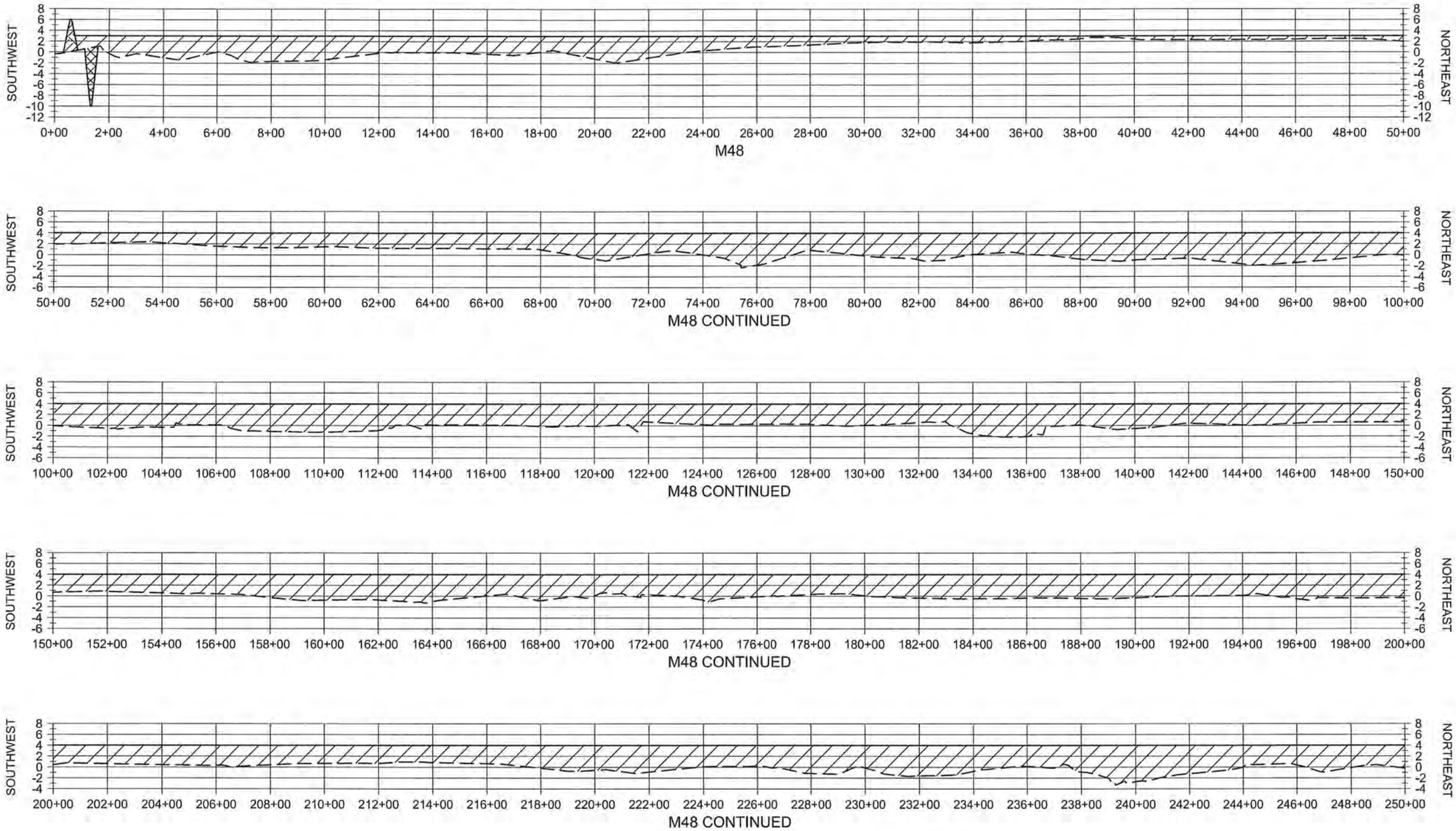
DATE: OCT. 2019

SHEET 49 OF 53



HORIZONTAL GRAPHIC SCALE
400' 200' 0 400' 800'
20' 10' 0 20' 40'
VERTICAL GRAPHIC SCALE

NOTE:
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STATE OF LOUISIANA
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10/30/2019

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License No. 41999
PROFESSIONAL ENGINEER
IN CIVIL ENGINEERING
10/30/19

LEGEND

- EARTHEN CONTAINMENT DIKE
- EARTHEN CONTAINMENT DIKE BORROW AREA
- MARSH CREATION FILL
- EXISTING GROUND

REV.	DATE	DESCRIPTION	BY

COASTAL PROTECTION AND RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

MARSH CREATION AREA SECTIONS

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CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT

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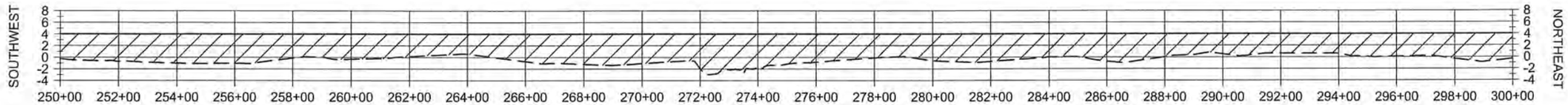
DRAWN BY: K. CANTU

DATE: OCT. 2019

SHEET 50 OF 53



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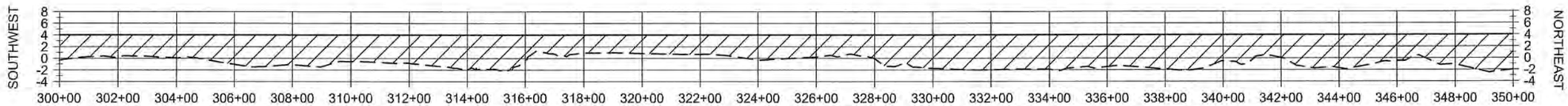

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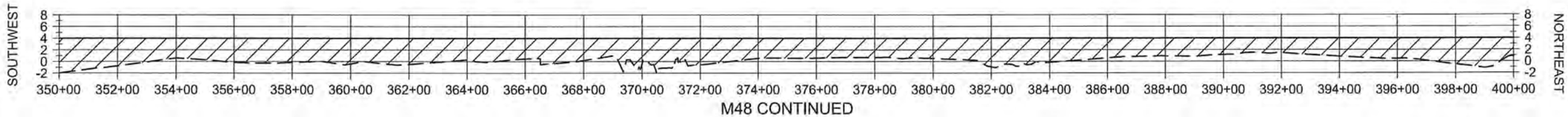

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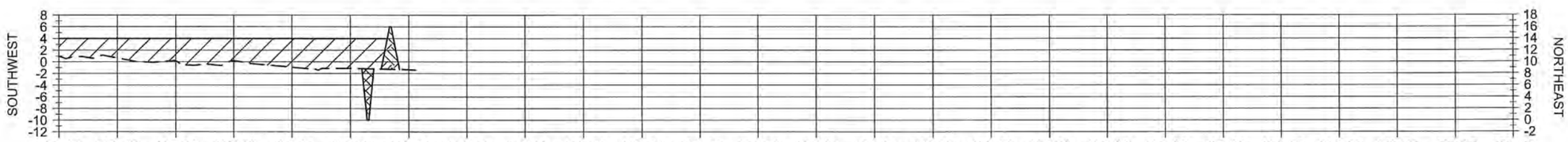

M48 CONTINUED

HORIZONTAL GRAPHIC SCALE
400' 200' 0 400' 800'
20' 10' 0 20' 40'
VERTICAL GRAPHIC SCALE

NOTE:
ALL ELEVATIONS ARE GIVEN IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

STATE OF LOUISIANA
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STATE OF LOUISIANA
AMANDA M. TAYLOR
License No. 41999
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
10/30/19

LEGEND

- EARTHEN CONTAINMENT DIKE
- EARTHEN CONTAINMENT DIKE BORROW AREA
- MARSH CREATION FILL
- EXISTING GROUND

REV.	DATE	DESCRIPTION	BY

COASTAL PROTECTION AND RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

MARSH CREATION AREA SECTIONS

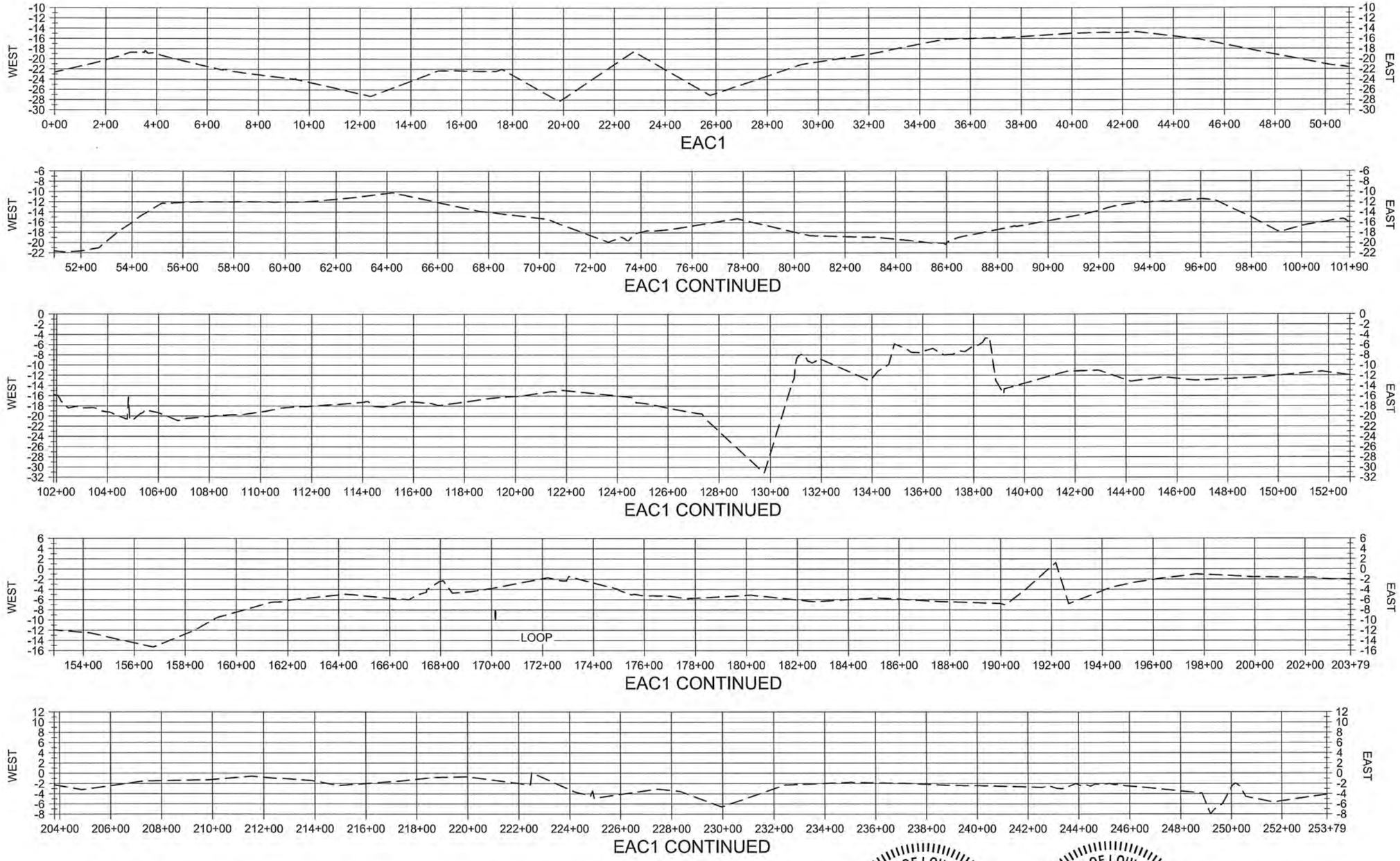
DESIGNED BY: A. TAYLOR, P.E.
APPROVED BY: S. HAYNES, P.E.

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT

STATE PROJECT NUMBER: BA-0171
DRAWN BY: K. CANTU

DATE: OCT. 2019

SHEET 51 OF 53



HORIZONTAL GRAPHIC SCALE
400' 200' 0 400' 800'
20' 10' 0 20' 40'
VERTICAL GRAPHIC SCALE

NOTE:
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AMANDA M. TAYLOR
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PROFESSIONAL ENGINEER
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CIVIL ENGINEERING
10/30/19

LEGEND
- - - EXISTING GROUND
I PIPELINE

REV.	DATE	DESCRIPTION	BY

COASTAL PROTECTION AND RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

EQUIPMENT ACCESS CORRIDOR SECTIONS

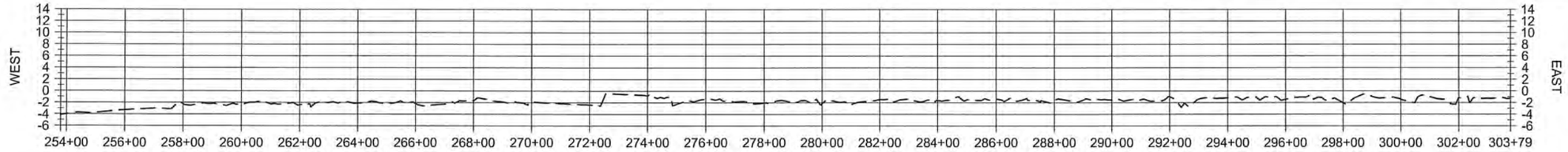
DESIGNED BY: A. TAYLOR, P.E.
APPROVED BY: S. HAYNES, P.E.

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT

STATE PROJECT NUMBER: BA-0171
DRAWN BY: K. CANTU

DATE: OCT. 2019

SHEET 52 OF 53



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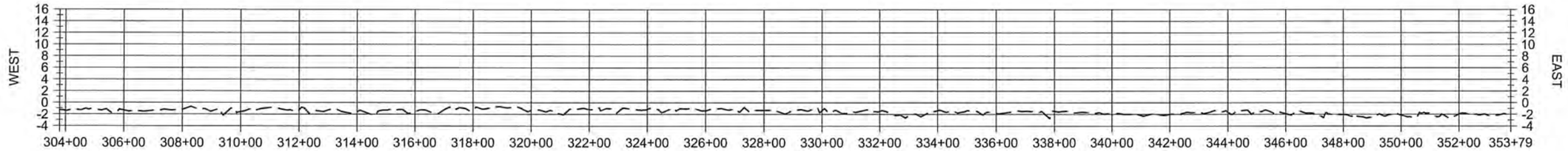

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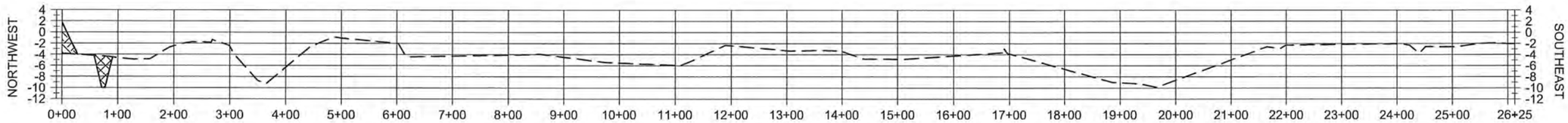
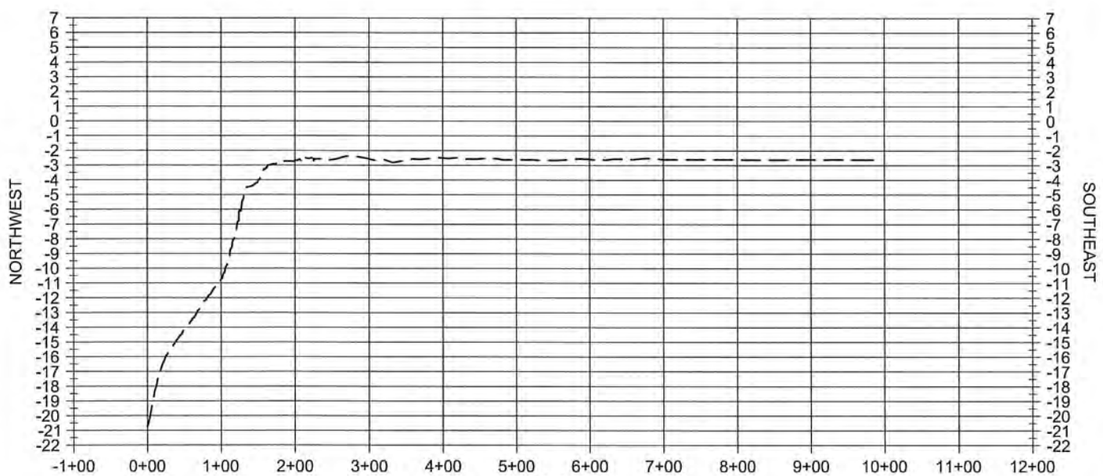


EAC4

HORIZONTAL GRAPHIC SCALE
400' 200' 0 400' 800'
20' 10' 0 20' 40'
VERTICAL GRAPHIC SCALE



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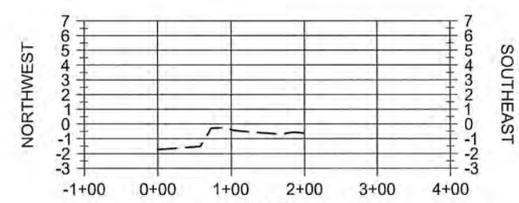

EAC3

HORIZONTAL GRAPHIC SCALE
200' 100' 0 200' 400'
10' 5' 0 10' 20'
VERTICAL GRAPHIC SCALE

NOTE:
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10/30/19

LEGEND
— — — EXISTING GROUND

REV.	DATE	DESCRIPTION	BY

COASTAL PROTECTION AND RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

EQUIPMENT ACCESS CORRIDOR SECTIONS

DESIGNED BY: A. TAYLOR, P.E.
APPROVED BY: S. HAYNES, P.E.

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT

STATE PROJECT NUMBER: BA-0171
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SHEET 53 OF 53