STATE OF LOUISIANA
COASTAL PROTECTION AND RESTORATION AUTHORITY

NEW ORLEANS LANDBRIDGE SHORELINE STABILIZATION & MARSH CREATION PROJECT

PO-0169
ORLEANS PARISH

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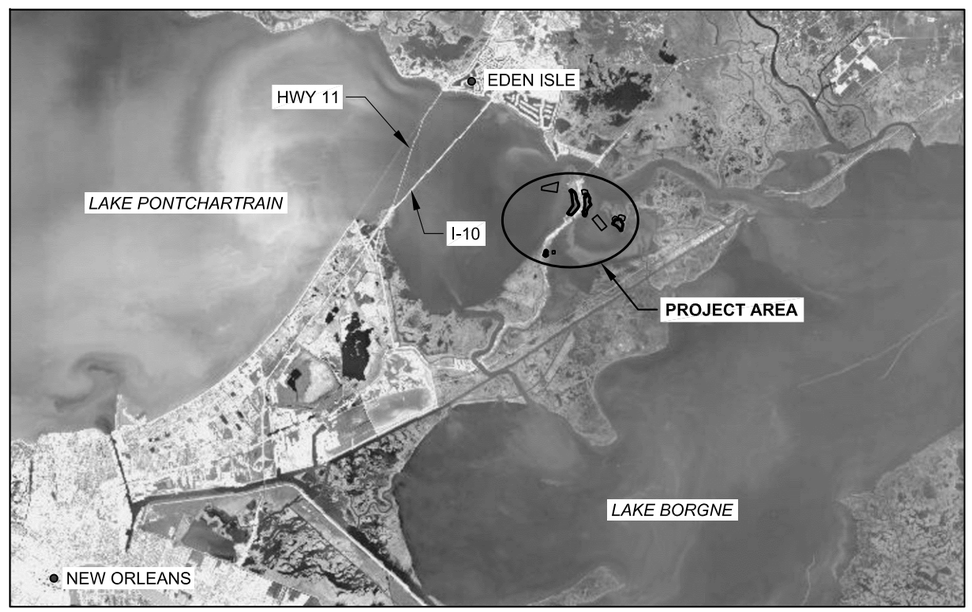
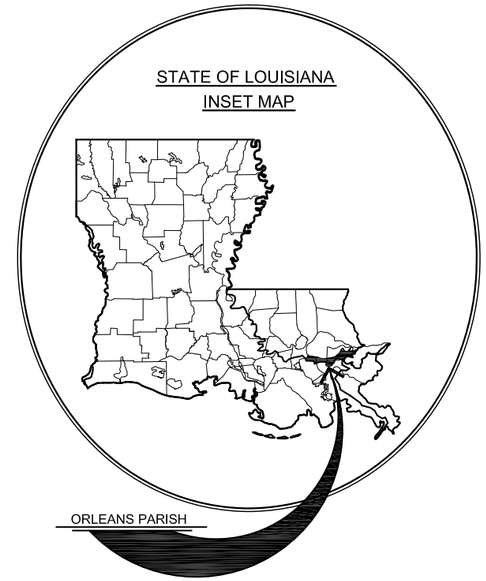




PRELIMINARY

DOCUMENTS ARE NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE, SALES, OR AS THE BASIS FOR THE ISSUANCE OF A PERMIT.

LICENSURE CLASSIFICATION REQUIREMENTS
MAJOR CLASSIFICATION: HEAVY CONSTRUCTION
SUBCLASSIFICATION: DREDGING

REV.	DATE	DESCRIPTION	BY

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

TITLE SHEET

DESIGNED BY: GREG MATTSON, P.E. - 0042397
APPROVED BY: SHANNON HAYNES, P.E. - 0030552

NEW ORLEANS LANDBRIDGE SHORELINE STABILIZATION & MARSH CREATION PROJECT

STATE PROJECT NUMBER: PO-0169
DRAWN BY: SHANE FAUST

DATE: OCTOBER 2018

GENERAL NOTES:

1. THE EQUIPMENT ACCESS TO THE PROJECT SITE SHALL BE THROUGH NAVIGABLE WATERWAYS AND SHALL NOT IMPACT EXISTING WATER BOTTOMS OR WETLANDS UNLESS OTHERWISE NOTED.
2. 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.
3. THE CONTRACTOR SHALL MAINTAIN AIDS TO NAVIGATION DURING CONSTRUCTION AND HAVE ADEQUATE NAVIGATIONAL EQUIPMENT ON THE DREDGE TO AVOID DREDGING IN RESTRICTED AREAS. ANY DAMAGE TO EXISTING AIDS TO NAVIGATION SHALL BE REPAIRED BY THE CONTRACTOR TO U.S. COAST GUARD STANDARDS AT THE EXPENSE OF THE CONTRACTOR.
4. THE MARSH CREATION AREAS, BORROW AREAS, CONTAINMENT DIKES, AND ARTICULATED CONCRETE MATS MAY BE REVISED BY THE ENGINEER THROUGHOUT THE WORK TO REFLECT CHANGES IN FIELD CONDITIONS.
5. THE CONTRACTOR SHALL PERFORM A MAGNETOMETER SURVEY OF THE DREDGE PIPELINE CORRIDOR, BORROW AREAS, ACCESS CHANNELS, AND MARSH CREATION AREAS PRIOR TO EXCAVATION OR DREDGING. DRAWINGS SHOWING THE TRACK LINES, COORDINATES, AMPLITUDE, SIGNATURE TYPE, AND DURATION OF ALL INFRASTRUCTURE AND ANOMALIES SHALL BE SUBMITTED TO THE ENGINEER IN THE PRECONSTRUCTION SURVEY.
6. THE CONTRACTOR IS RESPONSIBLE FOR CONTAINING THE HYDRAULICALLY DREDGED MATERIAL WITHIN THE BOUNDARIES OF THE MARSH CREATION AREAS.
7. THE BACKGROUND IMAGERY WAS TAKEN IN 2016.
8. THE PIPELINE AND UTILITY LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL LOCATE AND MARK ALL PIPELINES AND UTILITIES LOCATED WITHIN 250 FT. OF THE WORK PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL MAINTAIN THESE MARKERS DURING CONSTRUCTION. VERIFIED PIPELINES REFERENCE THE PIPELINE LOCATION (X, Y, Z) DATA BASED IN THE DESIGN SURVEY(S).

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.

   PLACE HOLDER
   CONTACT:
   PHONE:

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

BRYAN BURCH & GEORGE E. BURCH	PARK INVESTMENTS, LTD.	GRAND MARSH CHEF PASS, LLC.	CHEF MENTUER LAND CO., LTD.
CONTACT: BRYAN BURCH	CONTACT: LOUIS S. FRANK	CONTACT: GARY J. GAMBEL	CONTACT:
PHONE: (985) 764-8972	PHONE: (985) 832-3556	PHONE: (985) 340-2007	PHONE:

3. MODIFICATIONS TO THE DREDGE PIPELINE CORRIDOR AND EQUIPMENT ACCESS CORRIDOR SHALL REQUIRE APPROVAL BY THE ENGINEER.

DESIGN NOTES:

1. ALL ELEVATIONS ARE GIVEN IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) U.S. SURVEY FEET, GEOID 12A. 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
CRMS PO SM-25	6.34'	618,174.14	3,792,271.06

2. THE EXISTING ELEVATIONS SHOWN ON THE PLANS ARE BASED ON THE DESIGN SURVEYS PERFORMED FROM JULY 2016, SEPTEMBER 2016 AND SEPTEMBER 2018 BY CHUSTZ SURVEYING, LLC. THE DESIGN SURVEY REPORT IS PROVIDED IN THE SPECIFICATIONS.
3. DATA FROM STATION CRMS3784 WAS USED TO CALCULATE THE MHW AND MLW. ELEVATIONS ARE REFERENCED TO NAVD 88, US FEET, GEOID 12A. MHW = +0.99' AND MLW = +0.05' WITHIN PROJECT AREA.
4. A GEOTECHNICAL INVESTIGATION WAS PERFORMED BY S&ME,INC. ON JUNE 2017 TO JULY 2017. THE BORING LOCATIONS ARE SHOWN ON THE PLANS. THE GEOTECHNICAL INVESTIGATION REPORT IS PROVIDED IN THE SPECIFICATIONS.

LEGEND - SECTION VIEWS

- NON-WOVEN GEOTEXTILE FABRIC
- CONSTRUCTED MARSH FILL
- EARTHEN CONTAINMENT DIKE
- BORROW AREA
- EXISTING WATER BOTTOM
- EQUIPMENT ACCESS CORRIDOR
- MARSH NOURISHMENT AREA
- EARTHEN PLUG
- OVER-DREDGE

SUMMARY OF ESTIMATED QUANTITIES

ITEM No.	DESCRIPTION	UNIT	ESTIMATED QUANTITY[1]
1	HYDRAULIC DREDGE MOBILIZATION/DEMOBILIZATION (TS-100)	LS	1
2	DREDGE PIPELINE MOBILIZATION, INSTALLATION & DEMOBILIZATION (TS-101)	LS	1
3	GENERAL MOBILIZATION/DEMOBILIZATION (TS-102)	LS	1
4	SURVEYS (TS-210)	LS	1
5	GRADE STAKES (TS-220)	EACH	35
6	SETTLEMENT PLATES (TS-250)	EACH	5
7	INSTRUMENTED SETTLEMENT PLATES (TS-251)	LS	3
8	EARTHEN CONTAINMENT DIKES (TS-300)	LF	30,240
9	HYDRAULIC DREDGING AND MARSH FILL (TS-400)[2]	CY	1,308,322
10	GEOTEXTILE FABRIC (TS-640)[3]	SY	93,380
11	ARTICULATED CONCRETE BLOCK MAT (TS-750)	SY	52,210

1. THE QUANTITIES SHOWN WERE CALCULATED FROM THE DESIGN SURVEY. 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 MARSH CREATION BORROW AREA.
3. GEOTEXTILE FABRIC SHALL BE PLACED BENEATH ARTICULATED CONCRETE MAT AND UNDERNEATH THE BASE OF THE SHORELINE DIKES OF MCA2 & MCA4.

LEGEND - PLAN VIEWS

- ARMORED EARTHEN CONTAINMENT DIKE
- DREDGE PIPELINE CORRIDOR
- EARTHEN CONTAINMENT DIKE
- EARTHEN CONTAINMENT DIKE BORROW AREA
- EARTHEN PLUG
- EQUIPMENT ACCESS CORRIDOR
- INSTRUMENTED SETTLEMENT PLATE
- MARSH CREATION AREA
- MARSH CREATION BORROW AREA
- MARSH NOURISHMENT AREA
- SP-1 SETTLEMENT PLATE
- B-1 SOIL BORING
- SURVEY MONUMENT
- SURVEY TRANSECT
- TEMPORARY SPOIL
- PL VERIFIED PIPELINE
- UNCONTAINED MCA BOUNDARY
- PL UNVERIFIED PIPELINE

ABBREVIATIONS:

ACM	ARTICULATED CONCRETE MAT
CMF	CONSTRUCTED MARSH FILL
CPT	CONE PENETRATION TEST
CY	CUBIC YARD
DP	DREDGE PIPELINE
DPC	DREDGE PIPE CORRIDOR
EAC	EQUIPMENT ACCESS CORRIDOR
ECD	EARTHEN CONTAINMENT DIKE
ECDBA	EARTHEN CONTAINMENT DIKE BORROW AREA
EB	EXISTING BOTTOM
EP	EARTHEN PLUG
EPBA	EARTHEN PLUG BORROW AREA
EL	ELEVATION
FT	FOOT
GR	GEOTEXTILE REINFORCEMENT
ISP	INSTRUMENTED SETTLEMENT PLATE
LF	LINEAR FOOT
LS	LUMP SUM
MCA	MARSH CREATION AREA
MCBA	MARSH CREATION BORROW AREA
MNA	MARSH NOURISHMENT AREA
NTS	NOT TO SCALE
OD	OVER-DREDGE
PL	PIPELINE
RB	ROCK BREAKWATER
SB	SOIL BORING
SF	SQUARE FOOT
SM	SURVEY MONUMENT
SP	SETTLEMENT PLATE
ST	SURVEY TRANSECT
SY	SQUARE YARD
TS	TEMPORARY SPOIL

REV.	DATE	DESCRIPTION	BY

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

GENERAL NOTES

DESIGNED BY: GREG MATTSON, P.E. - 0042397
APPROVED BY: SHANNON HAYNES, P.E. - 0030552

NEW ORLEANS LANDBRIDGE SHORLEINE STABILIZATION & MARSH CRAETION PROJECT

STATE PROJECT NUMBER: PO-0169
DRAWN BY: SHANE FAUST

DATE: OCTOBER 2018

ESTIMATED QUANTITIES		
MCBA	**VOLUME** (CY)	**AREA** (ACRES)
MCBA 1	1,524,000	97
MCBA 2	1,363,870	87
MCBA 3	106,670	7
TOTAL	**2,994,540**	**191**
MCA	**VOLUME** (CY)	**AREA** (ACRES)
MCA 1	556,550	110
MCA 2	433,010	83
MCA 3	94,910	15
MCA 4	223,850	61
TOTAL	**1,308,320**	**269**
ECD	**VOLUME** (CY)	**LENGTH** (LN. FT.)
MCA 1	41,606	12,268
MCA 2	62,495	10,870
MCA 4	34,640	7,102
TOTAL	**138,741**	**30,240**
ACM	**AREA** (SY)	**LENGTH** (LN. FT.)
MCA 1	16,570	4,971
MCA 2	23,200	6,961
MCA 4	12,440	3,731
TOTAL	**52,210**	**15,663**

NOTES:
1. GEOTEXTILE REINFORCEMENT SHALL BE PLACED AT THE BASE OF THE SHORELINE ECDS FOR MCA2 & MCA4 AND BENEATH ALL ACMS.
2. MCA3 IS UNCONFINED.

REV.	DATE	DESCRIPTION	BY

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

PROJECT LAYOUT

DESIGNED BY: GREG MATTSON, P.E. - 0042397
APPROVED BY: SHANNON HAYNES, P.E. - 0030552

NEW ORLEANS LANDBRIDGE SHORELINE STABILIZATION & MARSH CREATION

STATE PROJECT NUMBER: PO-0169
DRAWN BY: SHANE FAUST

DATE: OCTOBER 2018

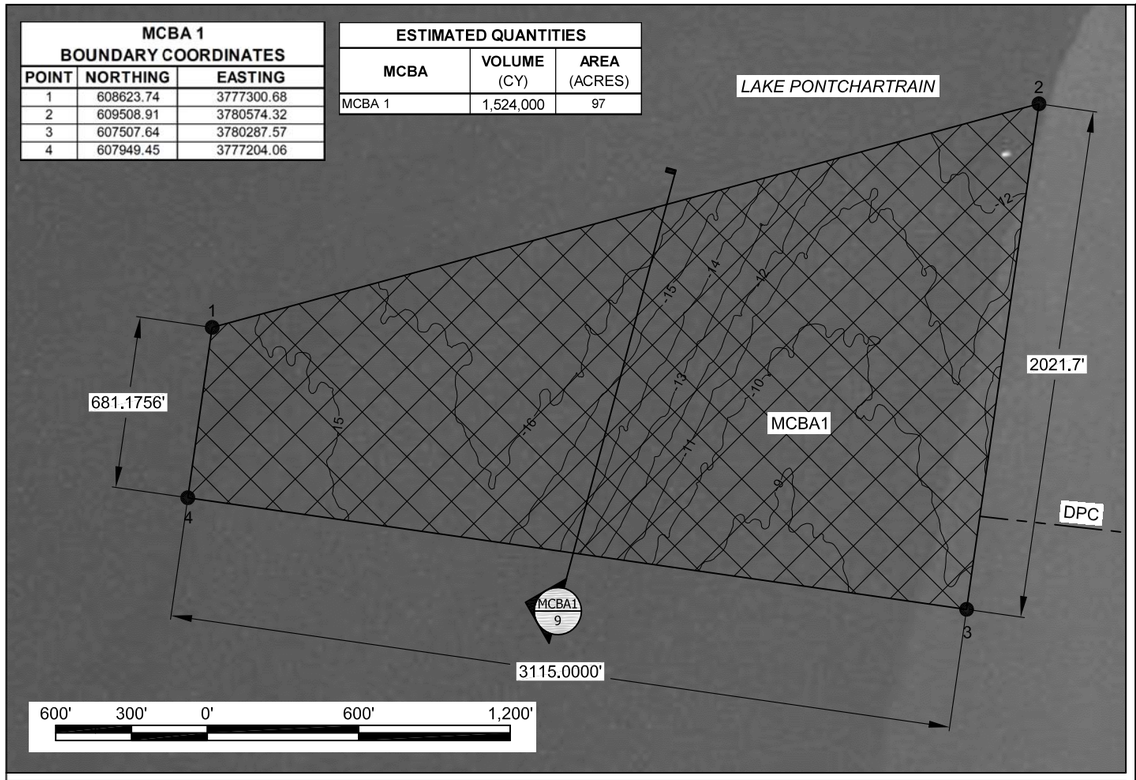
SHEET 3 OF 31

MCBA 1 BOUNDARY COORDINATES

POINT	NORTHING	EASTING
1	608623.74	3777300.68
2	609508.91	3780574.32
3	607507.64	3780287.57
4	607949.45	3777204.06

ESTIMATED QUANTITIES

MCBA	VOLUME (CY)	AREA (ACRES)
MCBA 1	1,524,000	97

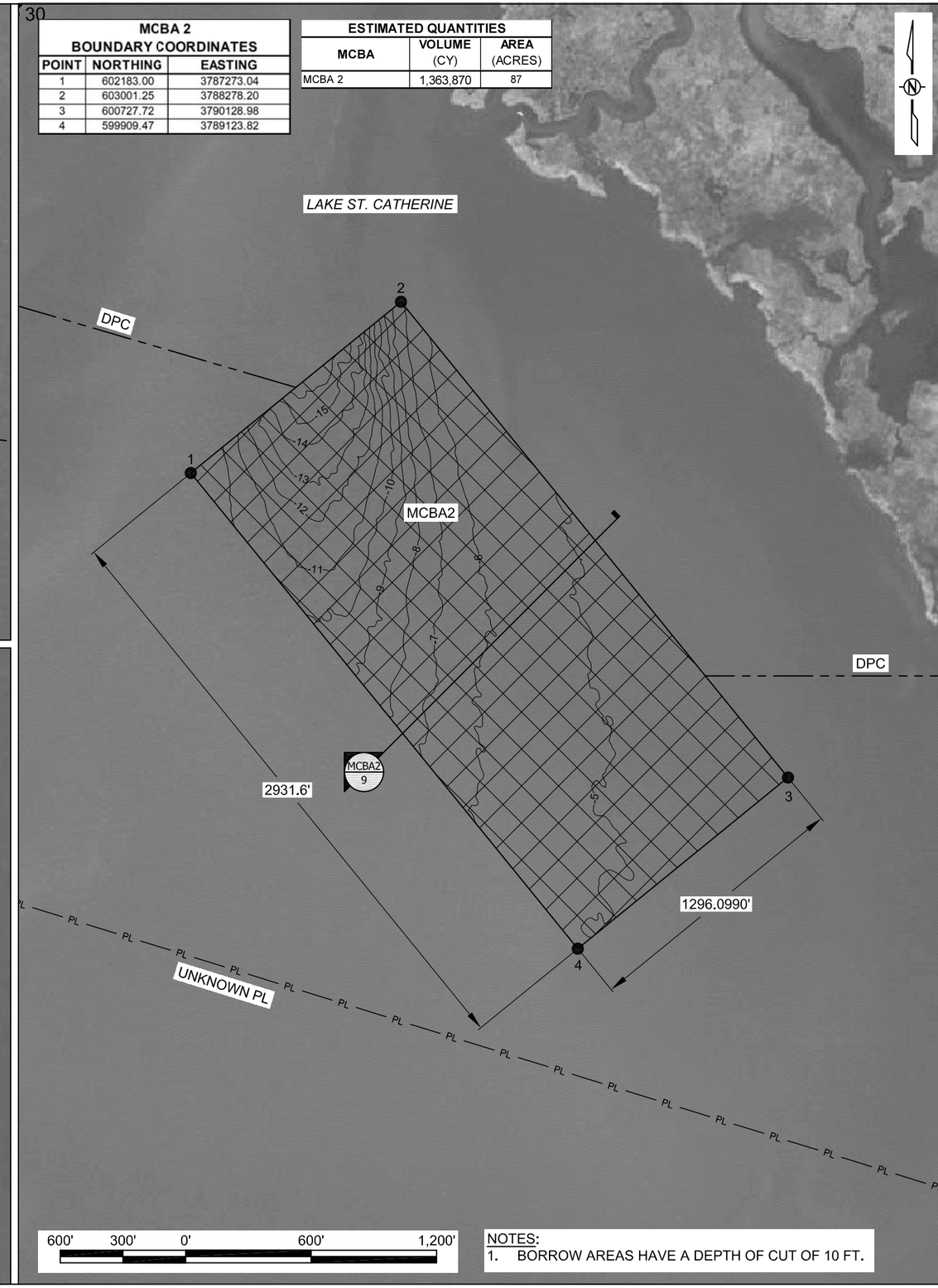


MCBA 2 BOUNDARY COORDINATES

POINT	NORTHING	EASTING
1	602183.00	3787273.04
2	603001.25	3788278.20
3	600727.72	3790128.98
4	599909.47	3789123.82

ESTIMATED QUANTITIES

MCBA	VOLUME (CY)	AREA (ACRES)
MCBA 2	1,363,870	87



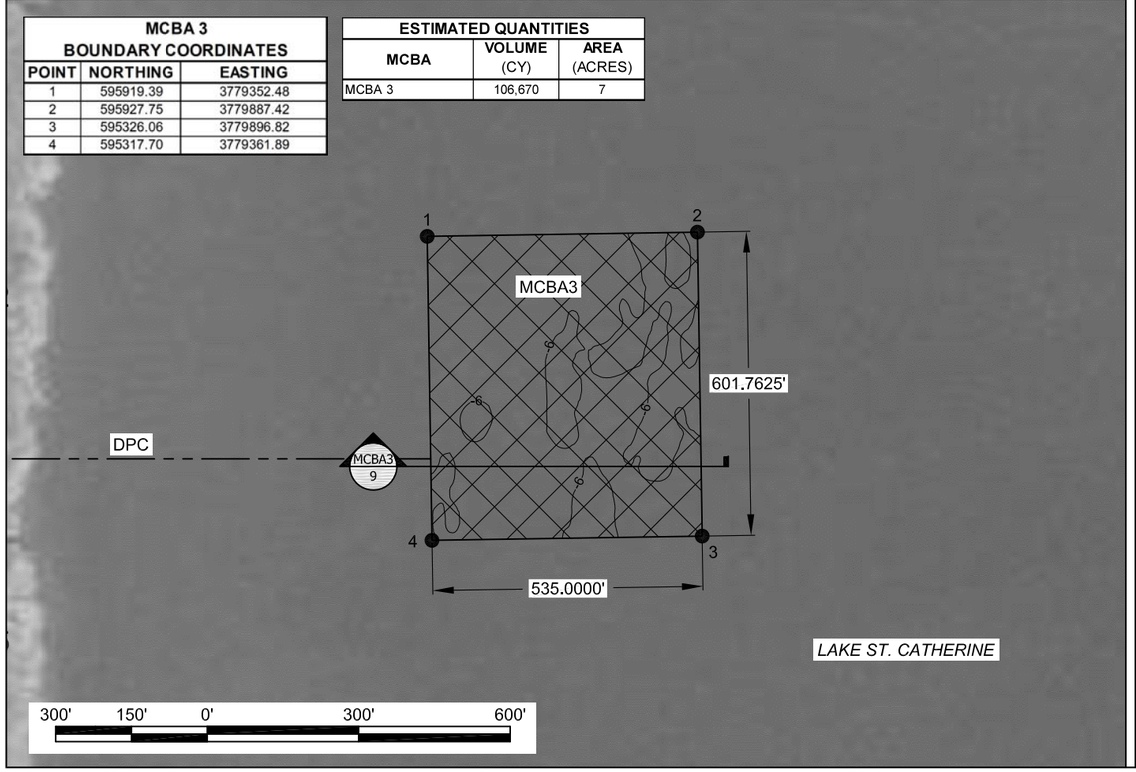
NOTES:
1. BORROW AREAS HAVE A DEPTH OF CUT OF 10 FT.

MCBA 3 BOUNDARY COORDINATES

POINT	NORTHING	EASTING
1	595919.39	3779352.48
2	595927.75	3779887.42
3	595326.06	3779896.82
4	595317.70	3779361.89

ESTIMATED QUANTITIES

MCBA	VOLUME (CY)	AREA (ACRES)
MCBA 3	106,670	7



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

BORROW AREAS 1, 2 & 3
PLAN VIEW

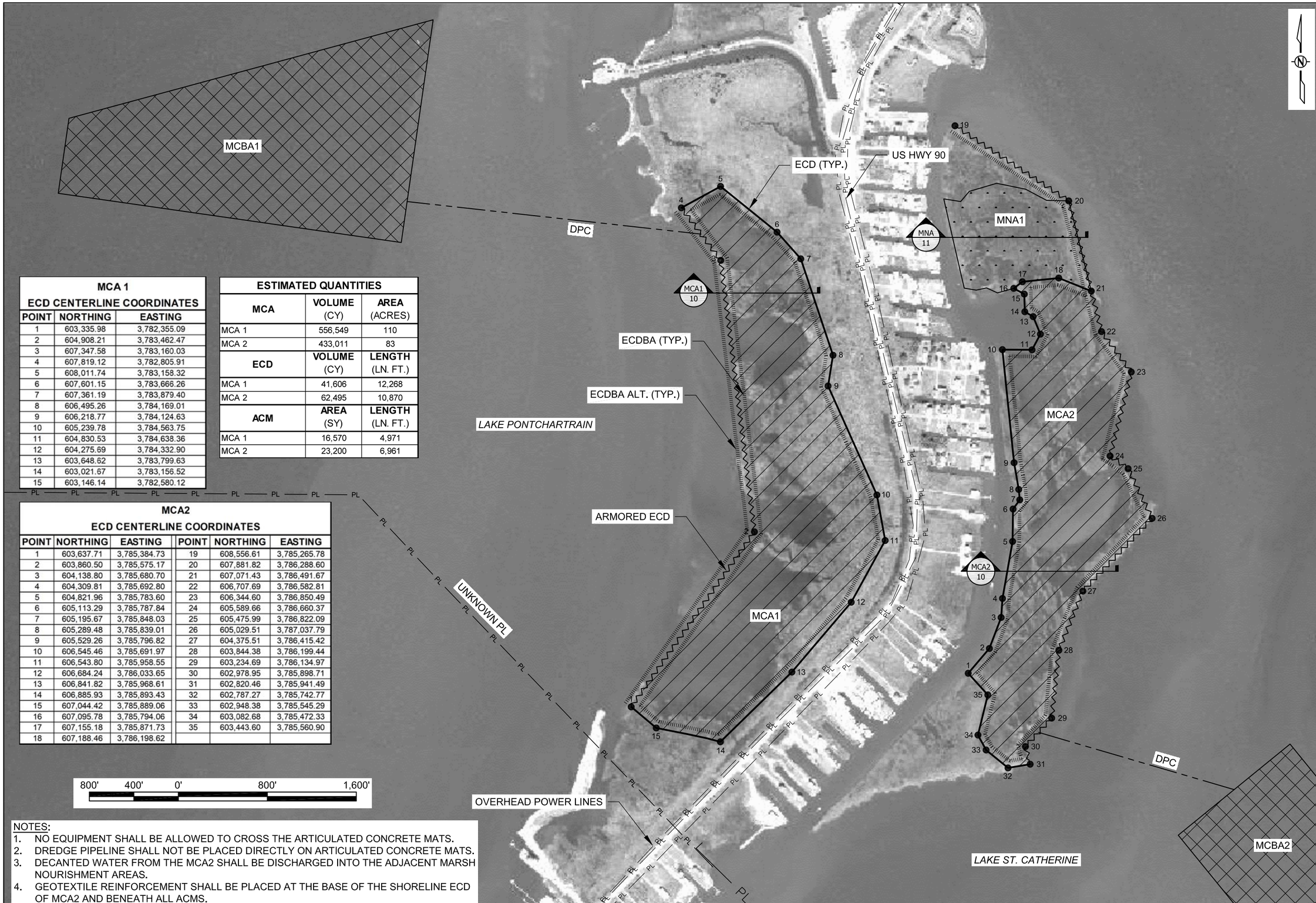
DESIGNED BY: GREG MATTSON, P.E. - 0042397
APPROVED BY: SHANNON HAYNES, P.E. - 0030552

NEW ORLEANS LANDBRIDGE SHORELINE STABILIZATION & MARSH CREATION

STATE PROJECT NUMBER: PO-0169
DRAWN BY: SHANE FAUST

DATE: OCTOBER 2018

SHEET 4 OF 31



MCA 1 ECD CENTERLINE COORDINATES		
POINT	NORTHING	EASTING
1	603,335.98	3,782,355.09
2	604,908.21	3,783,462.47
3	607,347.58	3,783,160.03
4	607,819.12	3,782,805.91
5	608,011.74	3,783,158.32
6	607,601.15	3,783,666.26
7	607,361.19	3,783,879.40
8	606,495.26	3,784,169.01
9	606,218.77	3,784,124.63
10	605,239.78	3,784,563.75
11	604,830.53	3,784,638.36
12	604,275.69	3,784,332.90
13	603,648.62	3,783,799.63
14	603,021.67	3,783,156.52
15	603,146.14	3,782,580.12

ESTIMATED QUANTITIES		
MCA	VOLUME (CY)	AREA (ACRES)
MCA 1	556,549	110
MCA 2	433,011	83
ECD	VOLUME (CY)	LENGTH (LN. FT.)
MCA 1	41,606	12,268
MCA 2	62,495	10,870
ACM	AREA (SY)	LENGTH (LN. FT.)
MCA 1	16,570	4,971
MCA 2	23,200	6,961

MCA2 ECD CENTERLINE COORDINATES					
POINT	NORTHING	EASTING	POINT	NORTHING	EASTING
1	603,637.71	3,785,384.73	19	608,556.61	3,785,265.78
2	603,860.50	3,785,575.17	20	607,881.82	3,786,288.60
3	604,138.80	3,785,680.70	21	607,071.43	3,786,491.67
4	604,309.81	3,785,692.80	22	606,707.69	3,786,582.81
5	604,821.96	3,785,783.60	23	606,344.60	3,786,850.49
6	605,113.29	3,785,787.84	24	605,589.66	3,786,660.37
7	605,195.67	3,785,848.03	25	605,475.99	3,786,822.09
8	605,289.48	3,785,839.01	26	605,029.51	3,787,037.79
9	605,529.26	3,785,796.82	27	604,375.51	3,786,415.42
10	606,545.46	3,785,691.97	28	603,844.38	3,786,199.44
11	606,543.80	3,785,958.55	29	603,234.69	3,786,134.97
12	606,684.24	3,786,033.65	30	602,978.95	3,785,898.71
13	606,841.82	3,785,968.61	31	602,820.46	3,785,941.49
14	606,885.93	3,785,893.43	32	602,787.27	3,785,742.77
15	607,044.42	3,785,889.06	33	602,948.38	3,785,545.29
16	607,095.78	3,785,794.06	34	603,082.68	3,785,472.33
17	607,155.18	3,785,871.73	35	603,443.60	3,785,560.90
18	607,188.46	3,786,198.62			

NOTES:
1. NO EQUIPMENT SHALL BE ALLOWED TO CROSS THE ARTICULATED CONCRETE MATS.
2. DREDGE PIPELINE SHALL NOT BE PLACED DIRECTLY ON ARTICULATED CONCRETE MATS.
3. DECANTED WATER FROM THE MCA2 SHALL BE DISCHARGED INTO THE ADJACENT MARSH NOURISHMENT AREAS.
4. GEOTEXTILE REINFORCEMENT SHALL BE PLACED AT THE BASE OF THE SHORELINE ECD OF MCA2 AND BENEATH ALL ACMS.

REV.	DATE	DESCRIPTION	BY

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

MARSH CREATION AREAS 1 & 2 PLAN VIEW

DESIGNED BY: GREG MATTSON, P.E. - 0042397
APPROVED BY: SHANNON HAYNES, P.E. - 0030552

NEW ORLEANS LANDBRIDGE SHORELINE STABILIZATION & MARSH CREATION

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DATE: OCTOBER 2018

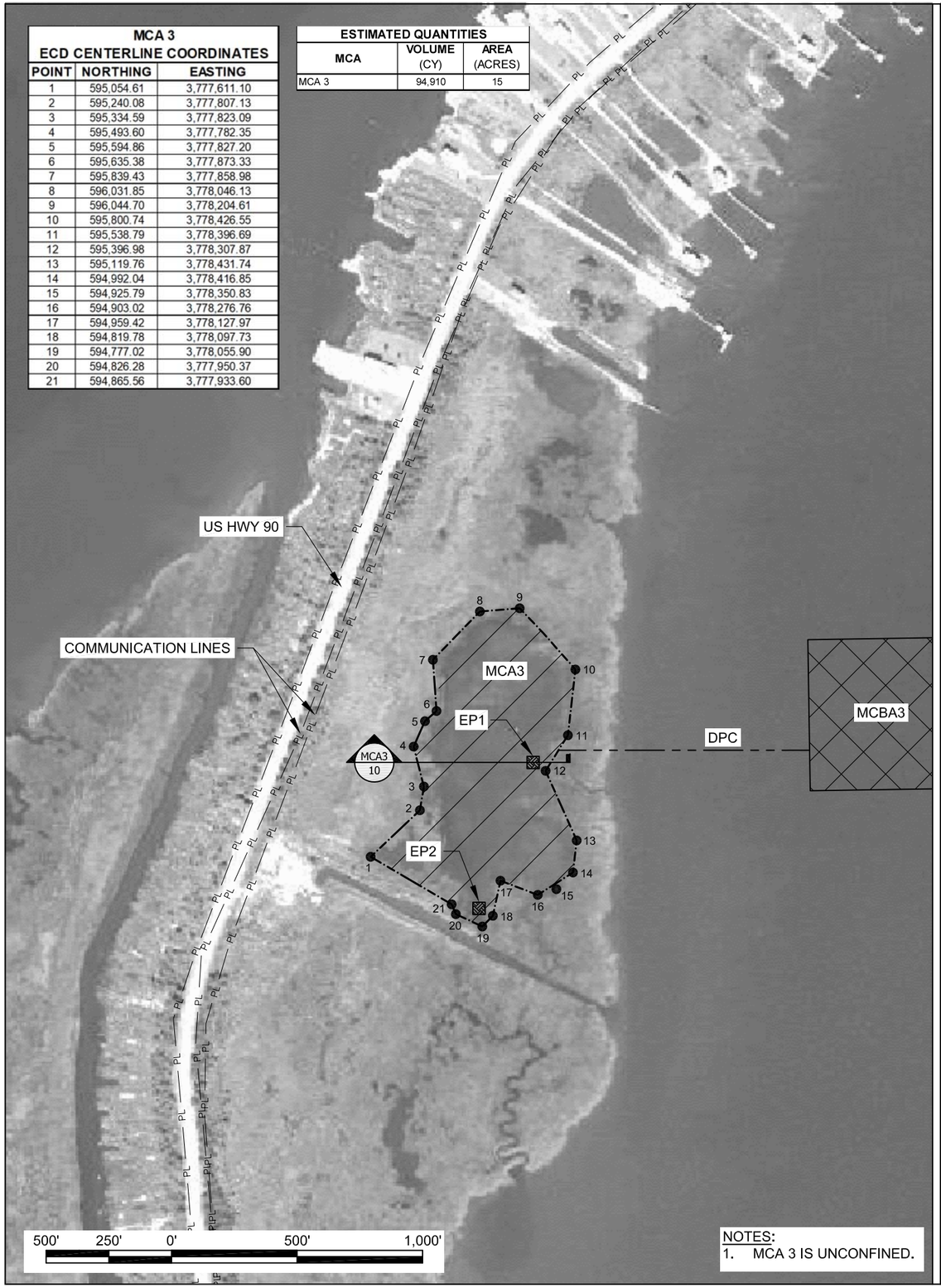
SHEET 5 OF 31

MCA 3 ECD CENTERLINE COORDINATES

POINT	NORTHING	EASTING
1	595,054.61	3,777,611.10
2	595,240.08	3,777,807.13
3	595,334.59	3,777,823.09
4	595,493.60	3,777,782.35
5	595,594.86	3,777,827.20
6	595,635.38	3,777,873.33
7	595,839.43	3,777,858.98
8	596,031.85	3,778,046.13
9	596,044.70	3,778,204.61
10	595,800.74	3,778,426.55
11	595,538.79	3,778,396.69
12	595,396.98	3,778,307.87
13	595,119.76	3,778,431.74
14	594,992.04	3,778,416.85
15	594,925.79	3,778,350.83
16	594,903.02	3,778,276.76
17	594,959.42	3,778,127.97
18	594,819.78	3,778,097.73
19	594,777.02	3,778,055.90
20	594,826.28	3,777,950.37
21	594,865.56	3,777,933.60

ESTIMATED QUANTITIES

MCA	VOLUME (CY)	AREA (ACRES)
MCA 3	94,910	15



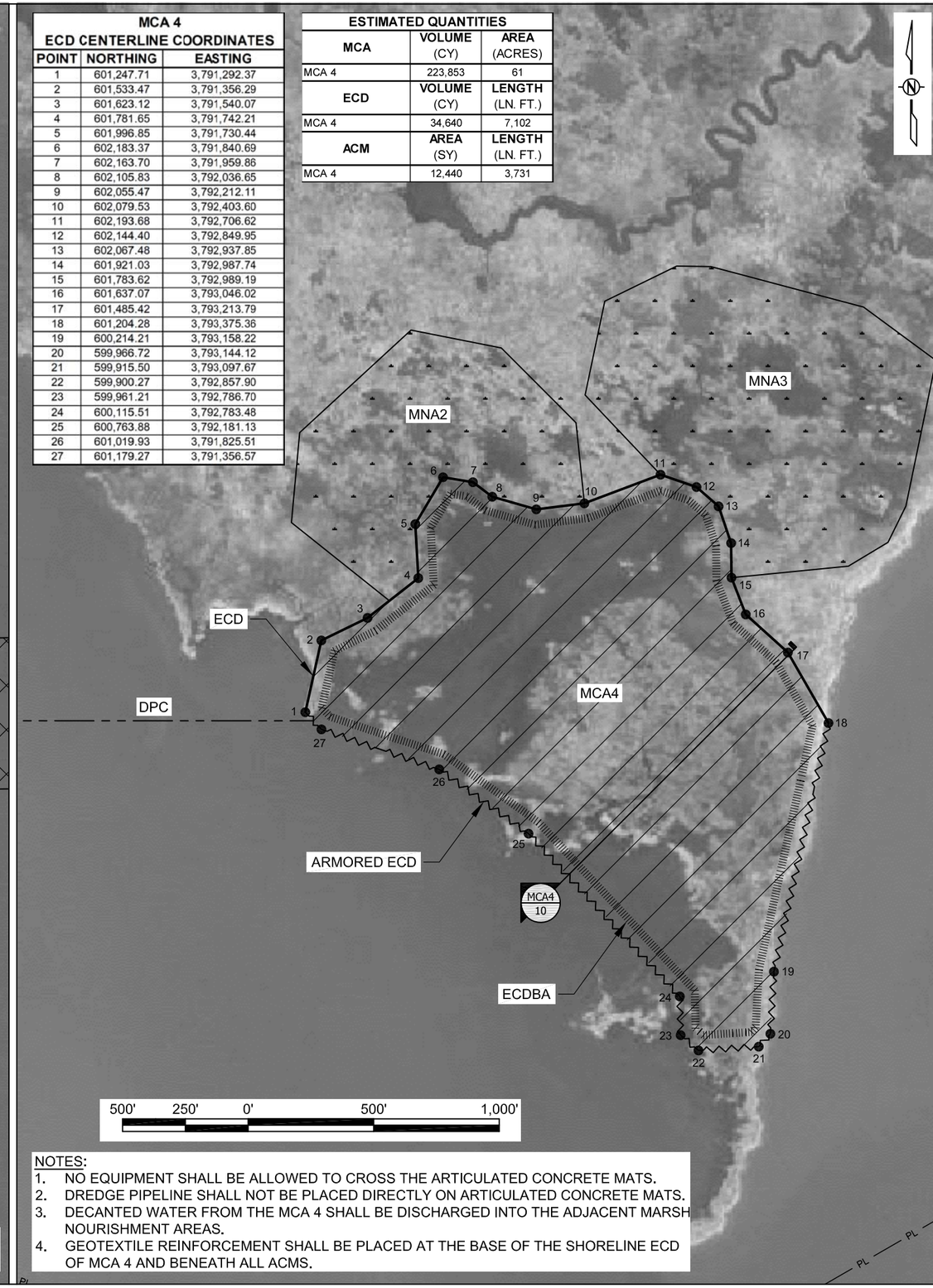
NOTES:
1. MCA 3 IS UNCONFINED.

MCA 4 ECD CENTERLINE COORDINATES

POINT	NORTHING	EASTING
1	601,247.71	3,791,292.37
2	601,533.47	3,791,356.29
3	601,623.12	3,791,540.07
4	601,781.65	3,791,742.21
5	601,996.85	3,791,730.44
6	602,183.37	3,791,840.69
7	602,163.70	3,791,959.86
8	602,105.83	3,792,036.65
9	602,055.47	3,792,212.11
10	602,079.53	3,792,403.60
11	602,193.68	3,792,706.62
12	602,144.40	3,792,849.95
13	602,067.48	3,792,937.85
14	601,921.03	3,792,987.74
15	601,783.62	3,792,989.19
16	601,637.07	3,793,046.02
17	601,485.42	3,793,213.79
18	601,204.28	3,793,375.36
19	600,214.21	3,793,158.22
20	599,966.72	3,793,144.12
21	599,915.50	3,793,097.67
22	599,900.27	3,792,857.90
23	599,961.21	3,792,786.70
24	600,115.51	3,792,783.48
25	600,763.88	3,792,181.13
26	601,019.93	3,791,825.51
27	601,179.27	3,791,356.57

ESTIMATED QUANTITIES

MCA	VOLUME (CY)	AREA (ACRES)
MCA 4	223,853	61
ECD	**VOLUME (CY)**	**LENGTH (LN. FT.)**
MCA 4	34,640	7,102
ACM	**AREA (SY)**	**LENGTH (LN. FT.)**
MCA 4	12,440	3,731



NOTES:
1. NO EQUIPMENT SHALL BE ALLOWED TO CROSS THE ARTICULATED CONCRETE MATS.
2. DREDGE PIPELINE SHALL NOT BE PLACED DIRECTLY ON ARTICULATED CONCRETE MATS.
3. DECANTED WATER FROM THE MCA 4 SHALL BE DISCHARGED INTO THE ADJACENT MARSH NOURISHMENT AREAS.
4. GEOTEXTILE REINFORCEMENT SHALL BE PLACED AT THE BASE OF THE SHORELINE ECD OF MCA 4 AND BENEATH ALL ACMS.

REV.	DATE	DESCRIPTION	BY

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

MARSH CREATION
AREAS 3 & 4 PLAN VIEW

DESIGNED BY: GREG MATTSON, P.E. - 0042397
APPROVED BY: SHANNON HAYNES, P.E. - 0030552

NEW ORLEANS LANDBRIDGE
SHORELINE STABILIZATION &
MARSH CREATION

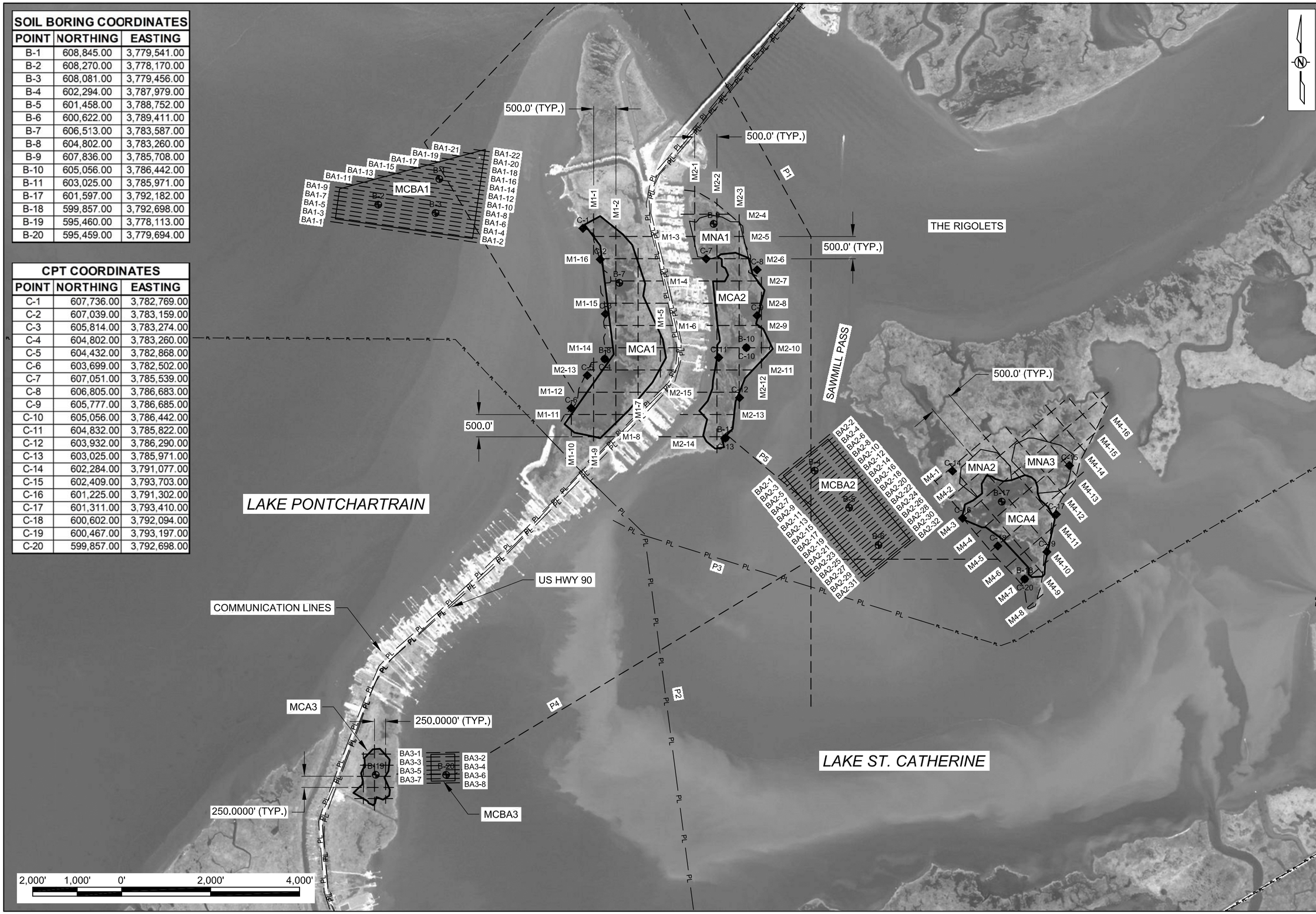
STATE PROJECT NUMBER: PO-0169
DRAWN BY: SHANE FAUST

DATE: OCTOBER 2018

SHEET 6 OF 31

SOIL BORING COORDINATES		
POINT	NORTHING	EASTING
B-1	608,845.00	3,779,541.00
B-2	608,270.00	3,778,170.00
B-3	608,081.00	3,779,456.00
B-4	602,294.00	3,787,979.00
B-5	601,458.00	3,788,752.00
B-6	600,622.00	3,789,411.00
B-7	606,513.00	3,783,587.00
B-8	604,802.00	3,783,260.00
B-9	607,836.00	3,785,708.00
B-10	605,056.00	3,786,442.00
B-11	603,025.00	3,785,971.00
B-17	601,597.00	3,792,182.00
B-18	599,857.00	3,792,698.00
B-19	595,460.00	3,778,113.00
B-20	595,459.00	3,779,694.00

CPT COORDINATES		
POINT	NORTHING	EASTING
C-1	607,736.00	3,782,769.00
C-2	607,039.00	3,783,159.00
C-3	605,814.00	3,783,274.00
C-4	604,802.00	3,783,260.00
C-5	604,432.00	3,782,868.00
C-6	603,699.00	3,782,502.00
C-7	607,051.00	3,785,539.00
C-8	606,805.00	3,786,683.00
C-9	605,777.00	3,786,685.00
C-10	605,056.00	3,786,442.00
C-11	604,832.00	3,785,822.00
C-12	603,932.00	3,786,290.00
C-13	603,025.00	3,785,971.00
C-14	602,284.00	3,791,077.00
C-15	602,409.00	3,793,703.00
C-16	601,225.00	3,791,302.00
C-17	601,311.00	3,793,410.00
C-18	600,602.00	3,792,094.00
C-19	600,467.00	3,793,197.00
C-20	599,857.00	3,792,698.00



REV.	DATE	DESCRIPTION	BY

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

DESIGN DATA COLLECTION LAYOUT

DESIGNED BY: GREG MATTSON, P.E. - 0042397
APPROVED BY: SHANNON HAYNES, P.E. - 0030552

NEW ORLEANS LANDBRIDGE SHORELINE STABILIZATION & MARSH CREATION

STATE PROJECT NUMBER: PO-0169
DRAWN BY: SHANE FAUST

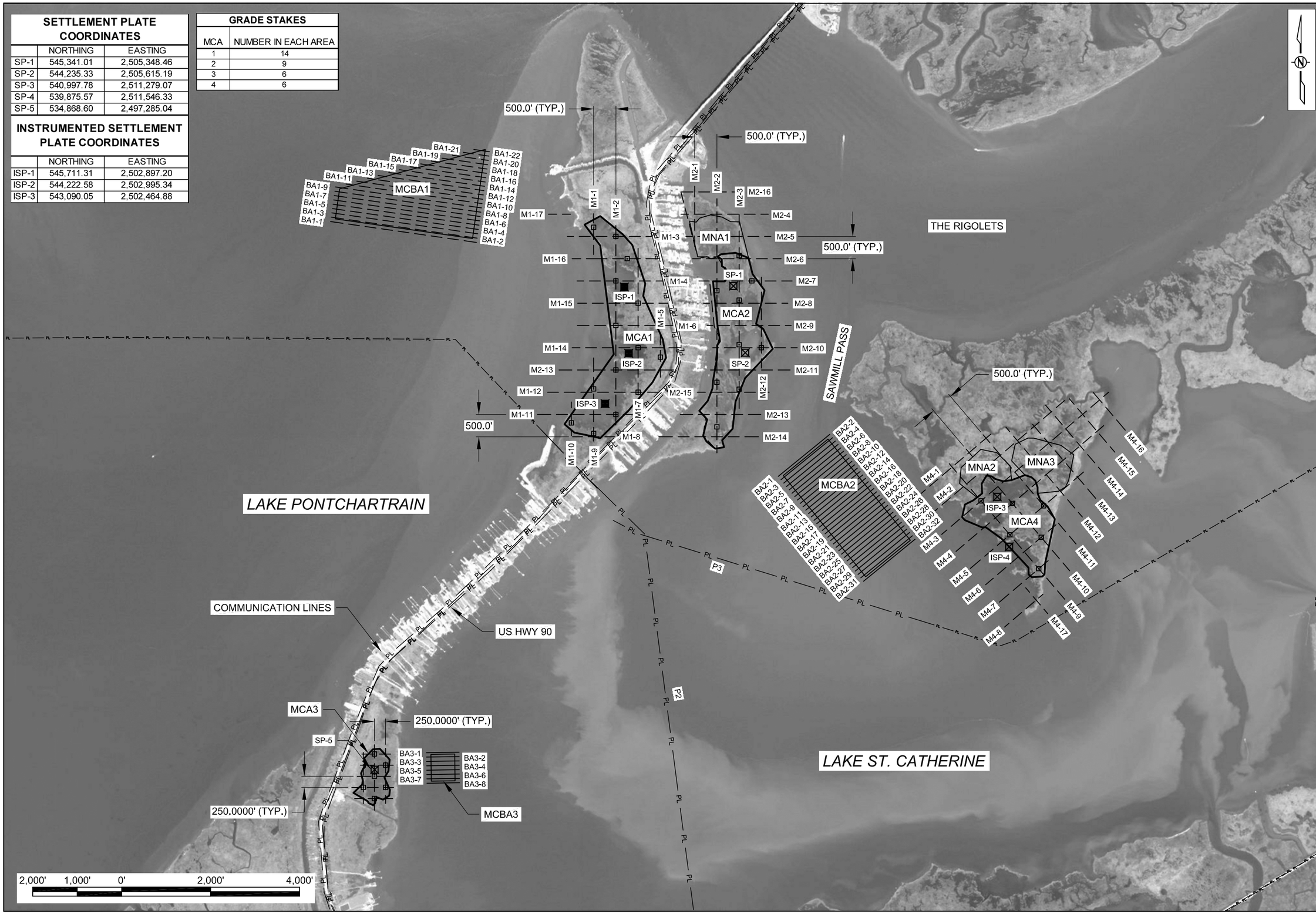
DATE: OCTOBER 2018

SHEET 7 OF 31

SETTLEMENT PLATE COORDINATES		
	NORTHING	EASTING
SP-1	545,341.01	2,505,348.46
SP-2	544,235.33	2,505,615.19
SP-3	540,997.78	2,511,279.07
SP-4	539,875.57	2,511,546.33
SP-5	534,868.60	2,497,285.04

INSTRUMENTED SETTLEMENT PLATE COORDINATES		
	NORTHING	EASTING
ISP-1	545,711.31	2,502,897.20
ISP-2	544,222.58	2,502,995.34
ISP-3	543,090.05	2,502,464.88

GRADE STAKES	
MCA	NUMBER IN EACH AREA
1	14
2	9
3	6
4	6



REV.	DATE	DESCRIPTION	BY

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

CONSTRUCTION SURVEY LAYOUT

DESIGNED BY: GREG MATTSON, P.E. - 0042397
APPROVED BY: SHANNON HAYNES, P.E. - 0030552

NEW ORLEANS LANDBRIDGE SHORELINE STABILIZATION & MARSH CREATION

STATE PROJECT NUMBER: PO-0169
DRAWN BY: SHANE FAUST

DATE: OCTOBER 2018

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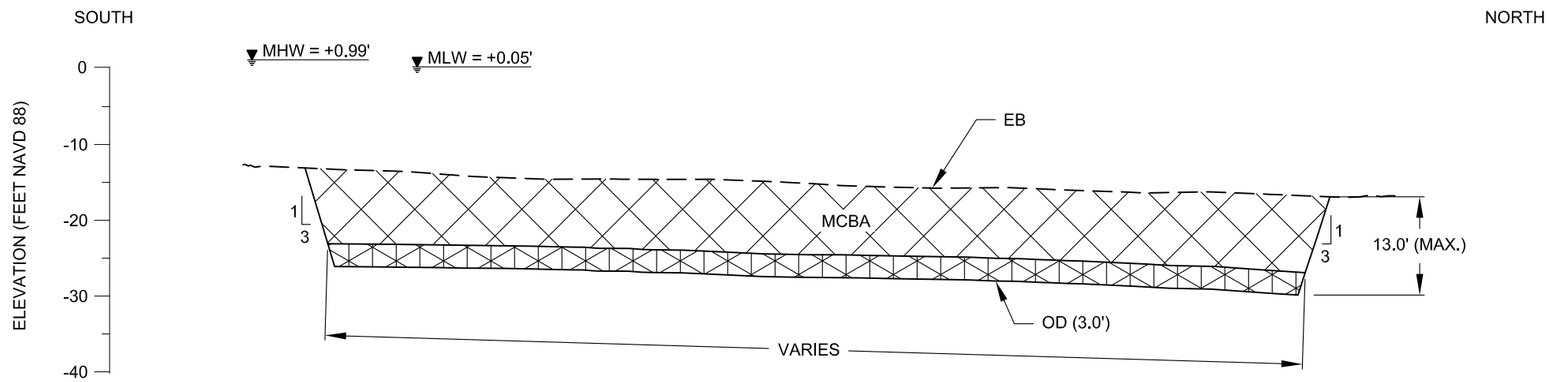
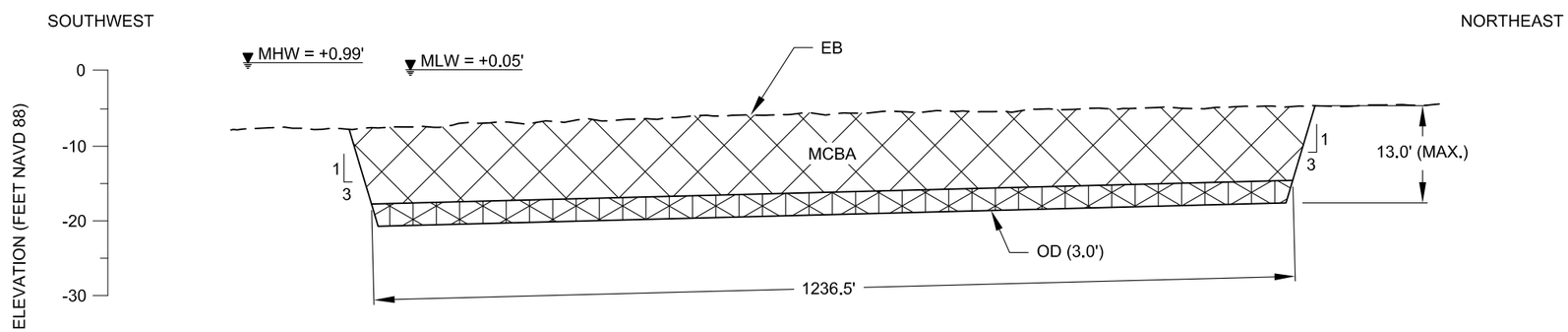
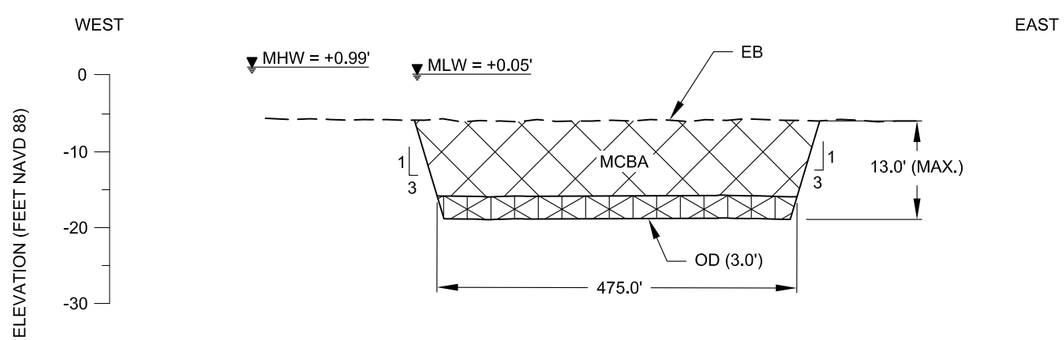


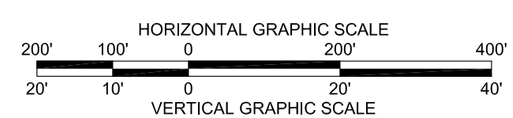
BA1 / 4 BORROW AREA TYPICAL SECTION



BA2 / 4 BORROW AREA TYPICAL SECTION



BA3 / 4 BORROW AREA TYPICAL SECTION



REV.	DATE	DESCRIPTION	BY

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

BORROW AREA TYPICAL SECTIONS

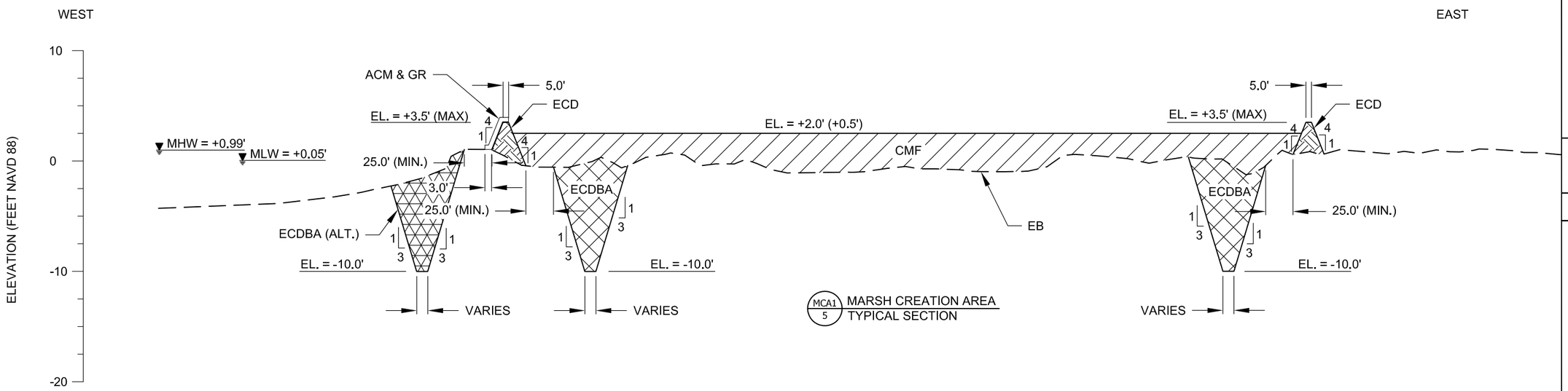
DESIGNED BY: GREG MATSON, P.E. - 0042397
APPROVED BY: SHANNON HAYNES, P.E. - 0030552

NEW ORLEANS LANDBRIDGE SHORELINE STABILIZATION & MARSH CREATION PROJECT

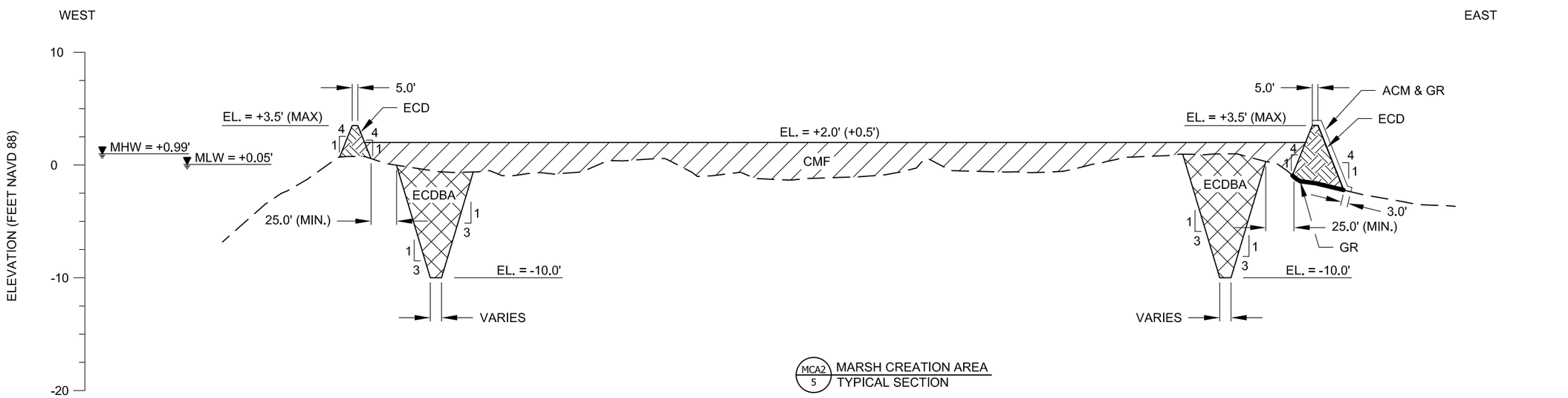
STATE PROJECT NUMBER: PO-0169
DRAWN BY: SHANE FAUST

DATE: OCTOBER 2018

SHEET 9 OF 31



MCA1 / 5 MARSH CREATION AREA TYPICAL SECTION



MCA2 / 5 MARSH CREATION AREA TYPICAL SECTION

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

REV.	DATE	DESCRIPTION	BY

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150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

MARSH CREATION AREA TYPICAL SECTIONS

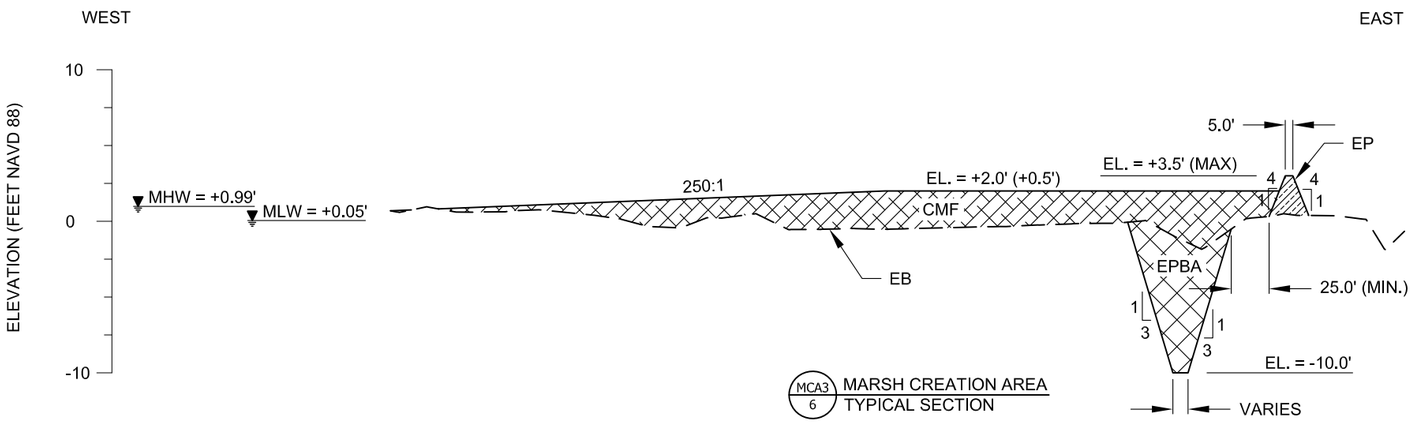
DESIGNED BY: GREG MATSON, P.E. - 0042397
APPROVED BY: SHANNON HAYNES, P.E. - 0030552

NEW ORLEANS LANDBRIDGE SHORELINE STABILIZATION & MARSH CREATION PROJECT

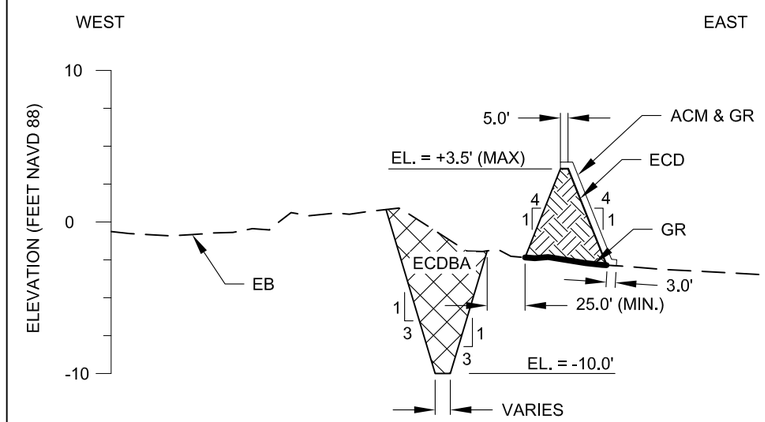
STATE PROJECT NUMBER: PO-0169
DRAWN BY: SHANE FAUST

DATE: OCTOBER 2018

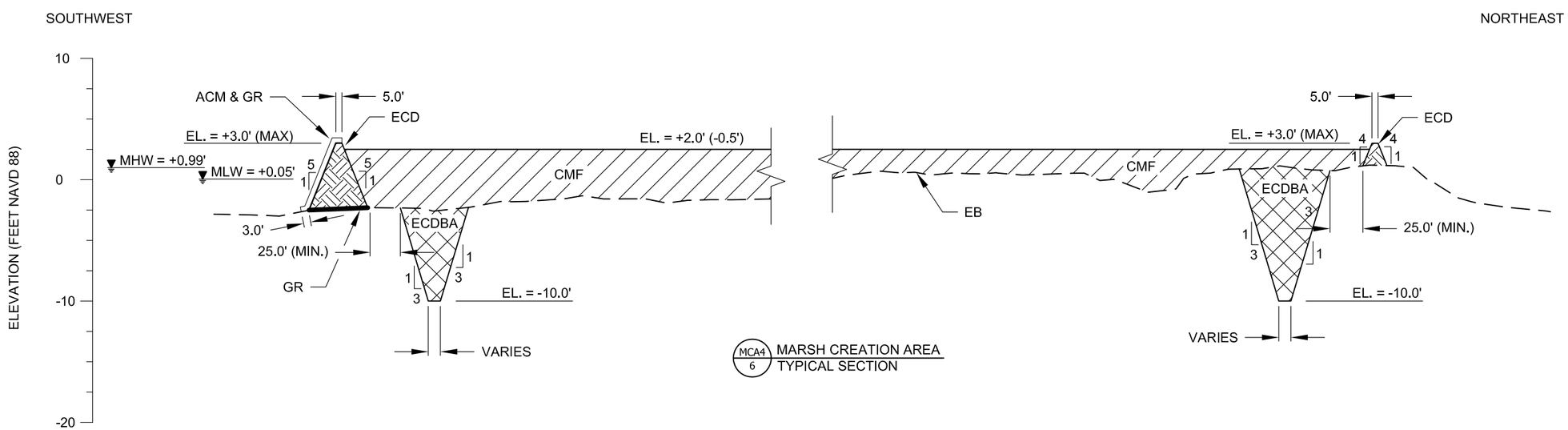
SHEET 10 OF 31



MCA3 / 6 MARSH CREATION AREA TYPICAL SECTION



MNA / 5 MARSH NOURISHMENT AREA TYPICAL SECTION



MCA4 / 6 MARSH CREATION AREA TYPICAL SECTION

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

REV.	DATE	DESCRIPTION	BY

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

MARSH CREATION AREA AND EARTHEN PLUG TYPICAL SECTIONS

DESIGNED BY: GREG MATSON, P.E. - 0042397
APPROVED BY: SHANNON HAYNES, P.E. - 0030552

NEW ORLEANS LANDBRIDGE SHORELINE STABILIZATION & MARSH CREATION PROJECT

STATE PROJECT NUMBER: PO-0169
DRAWN BY: SHANE FAUST

DATE: OCTOBER 2018

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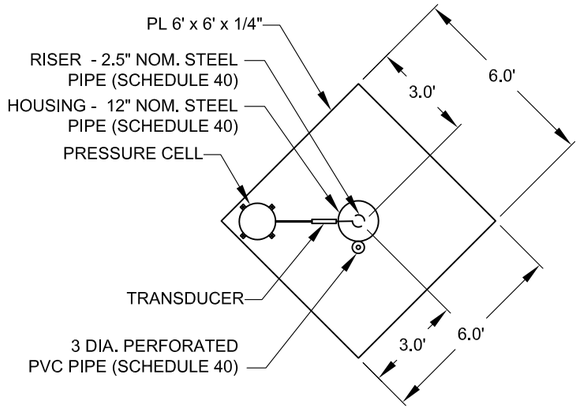
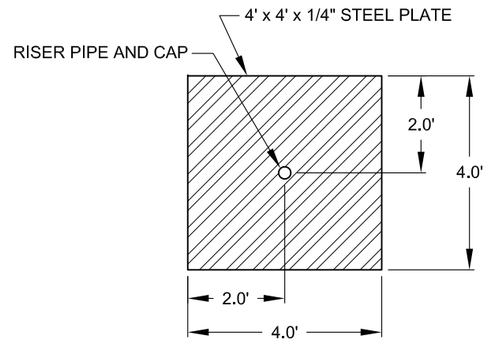
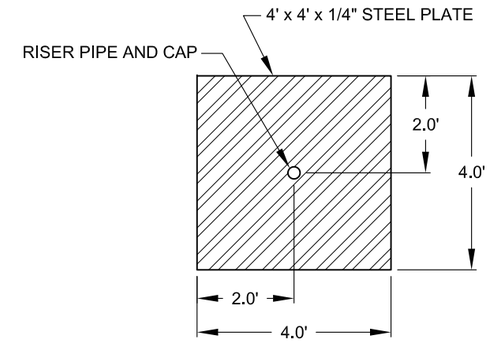


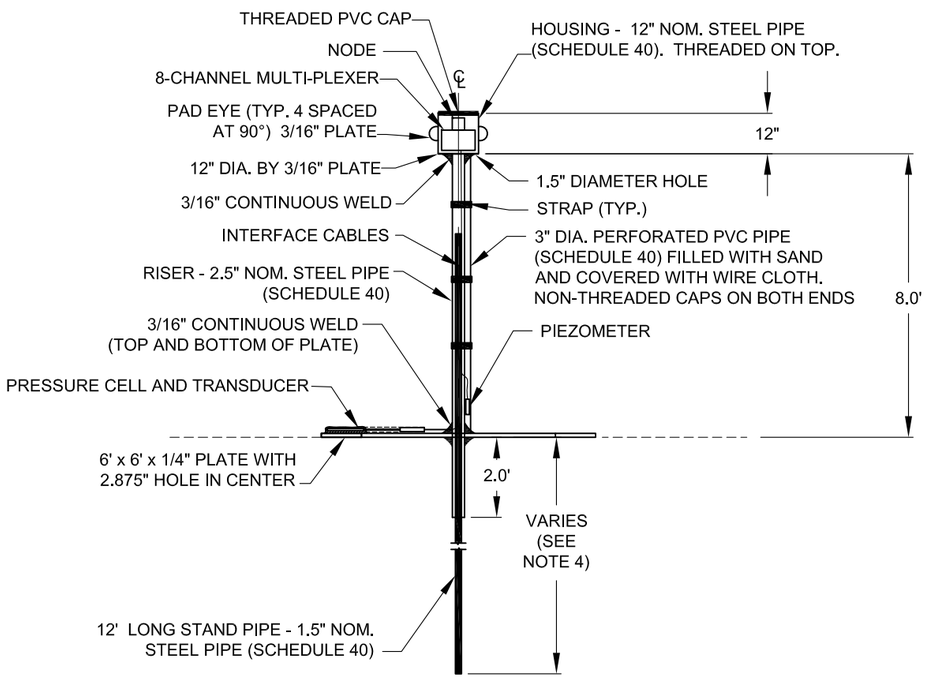
PLAN VIEW



PLAN VIEW

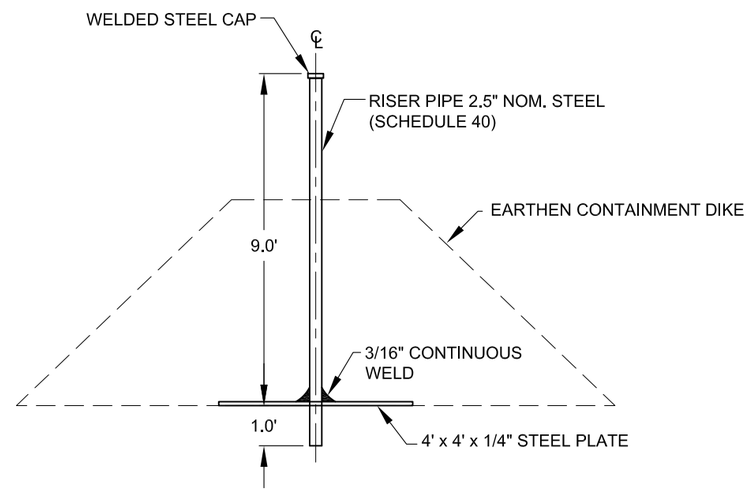


PLAN VIEW



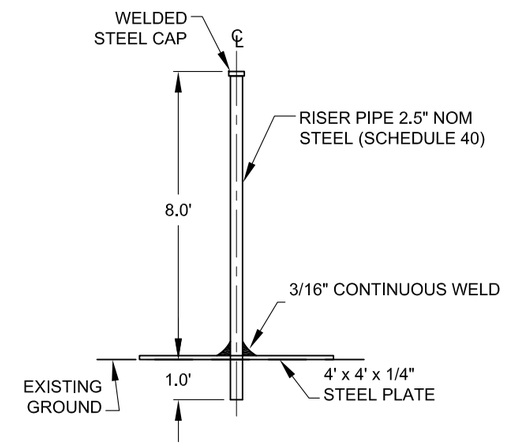
PROFILE VIEW

ISP
NTS



PROFILE VIEW

ECD SP
NTS



PROFILE VIEW

MCA SP
NTS

NOTES:
1. SETTLEMENT PLATES SHALL BE INSTALLED AT THE LOCATIONS SHOWN ON THE PLANS.
2. INSTRUMENTED SETTLEMENT PLATES TO BE INSTALLED IN MCA3 AT THE LOCATIONS SHOWN ON THE PLANS.
3. CONTRACTOR SHALL FABRICATE INSTRUMENTED SETTLEMENT PLATES AND PROCURE INSTRUMENTATION. CPRA IS TO INSTALL INSTRUMENTATION ONTO SETTLEMENT PLATES IN THE FIELD WITH ASSISTANCE FROM CONTRACTOR.
4. CONTRACTOR TO DRIVE STAND PIPE BELOW GRADE TO THE DEPTH DETERMINED BY THE ENGINEER IN THE FIELD.

REV.	DATE	DESCRIPTION	BY

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

SETTLEMENT PLATE DETAILS

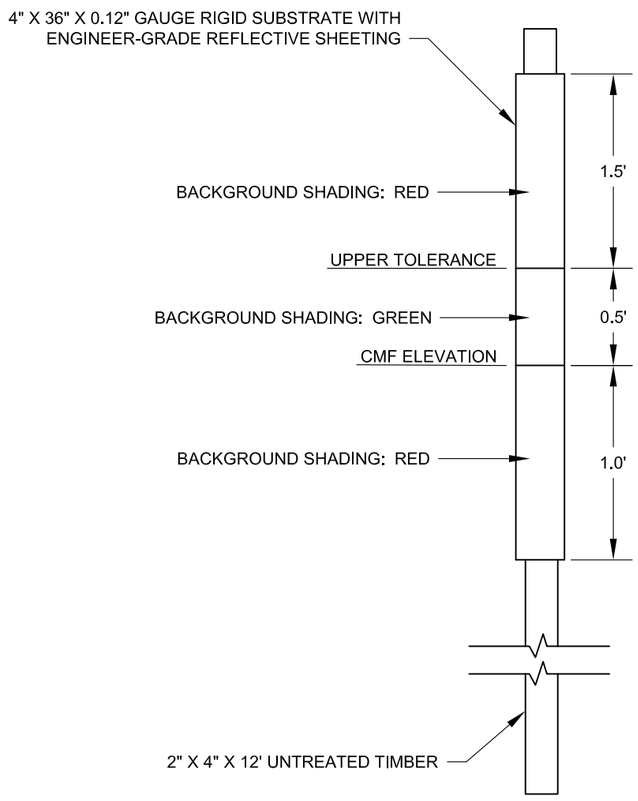
DESIGNED BY: GREG MATTSON, P.E. - 0042397
APPROVED BY: SHANNON HAYNES, P.E. - 0030552

NEW ORLEANS LANDBRIDGE SHORELINE STABILIZATION & MARSH CREATION PROJECT

STATE PROJECT NUMBER: PO-0169
DRAWN BY: SHANE FAUST

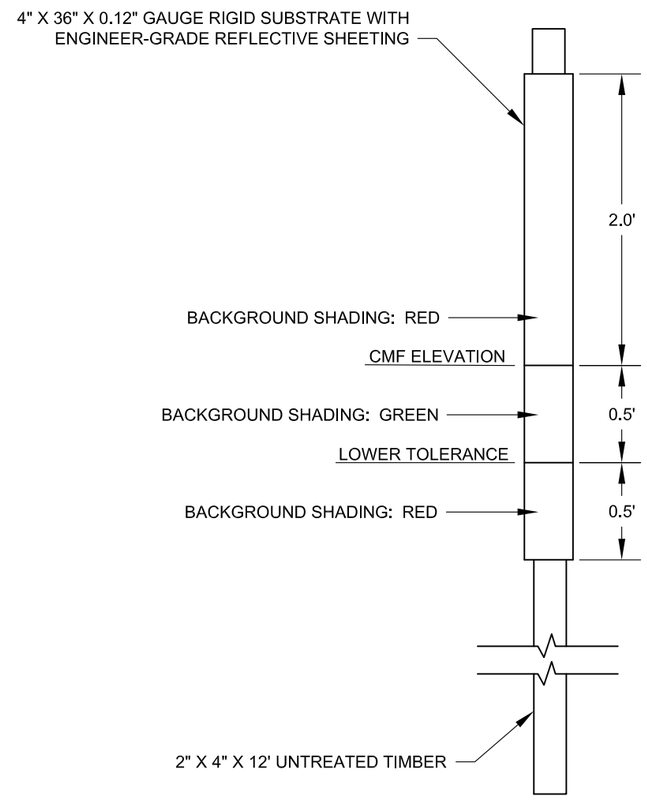
DATE: OCTOBER 2018

SHEET 12 OF 31



MCA1, 2 & 3 GRADE STAKE DETAIL

NTS



MCA4 GRADE STAKE DETAIL

NTS

GRADE STAKES	
MCA	CMF ELEVATION (NAVD88)
1	+2.0
2	+2.0
3	+2.0
4	+2.0

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150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

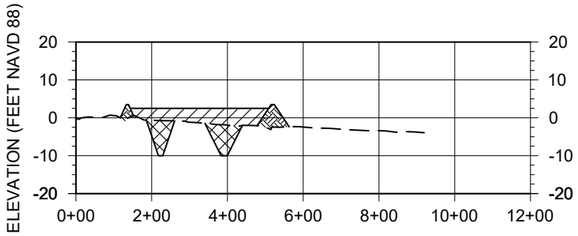
GRADE STAKE DETAILS

DESIGNED BY: GREG MATTSON, P.E. - 0042397
APPROVED BY: SHANNON HAYNES, P.E. - 0030552

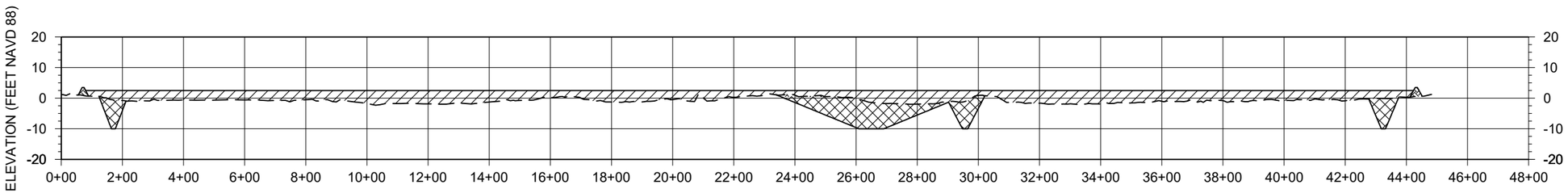
NEW ORLEANS LANDBRIDGE SHORELINE STABILIZATION & MARSH CREATION PROJECT

STATE PROJECT NUMBER: PO-0169
DRAWN BY: SHANE FAUST

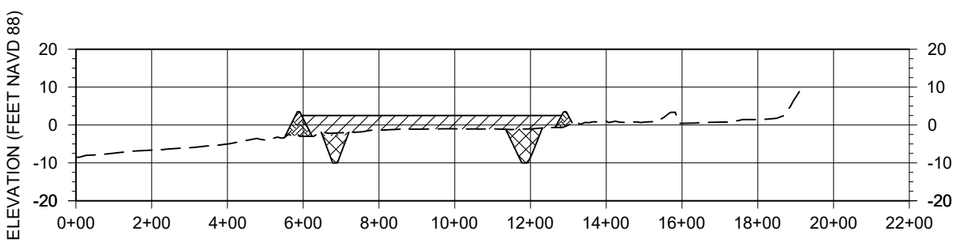
DATE: OCTOBER 2018



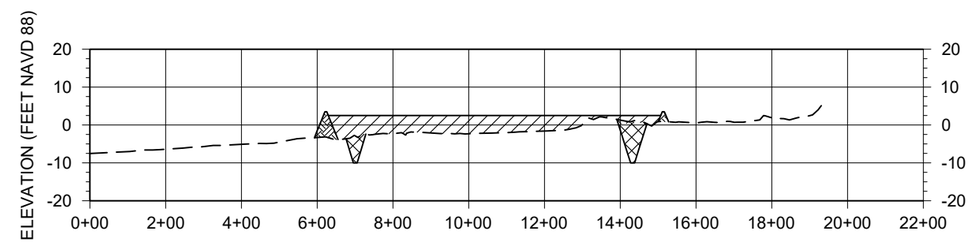
M1-1



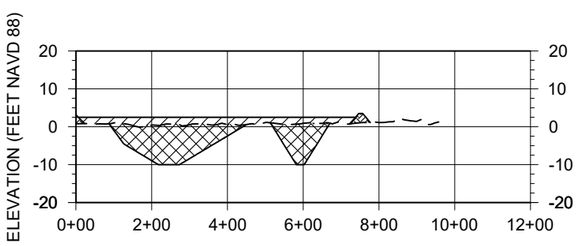
M1-2



M1-3



M1-4



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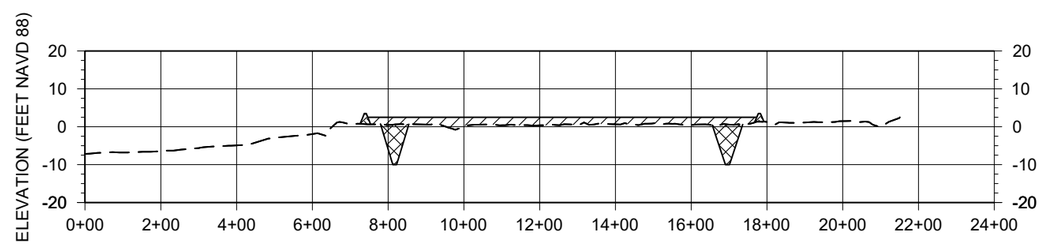
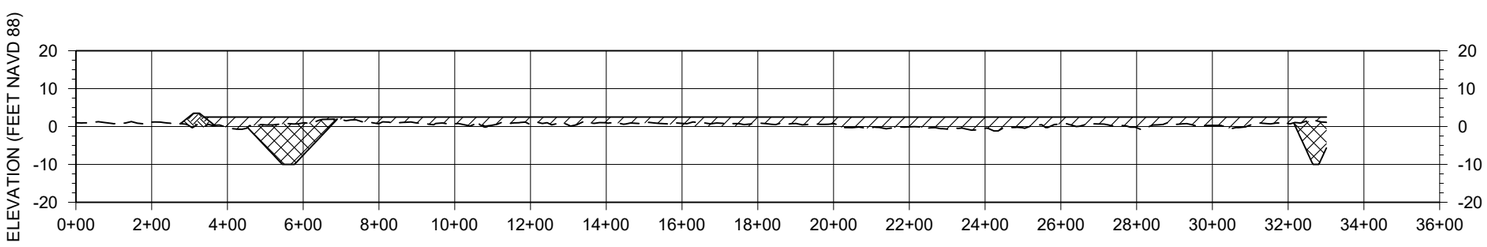


M1-6



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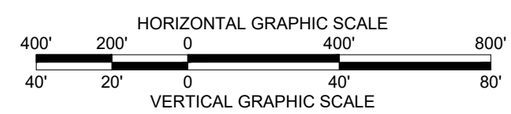


REV.	DATE	DESCRIPTION	BY

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

MARSH CREATION AREA SECTIONS

DESIGNED BY: GREG MATTSON, P.E. - 0042397

APPROVED BY: SHANNON HAYNES, P.E. - 0030552

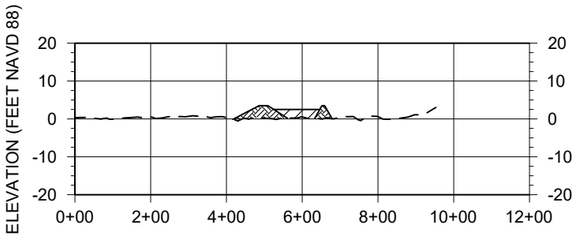
NEW ORLEANS LANDBRIDGE SHORELINE STABILIZATION & MARSH CREATION PROJECT

STATE PROJECT NUMBER: PO-0169

DRAWN BY: SHANE FAUST

DATE: OCTOBER 2018

SHEET 14 OF 31



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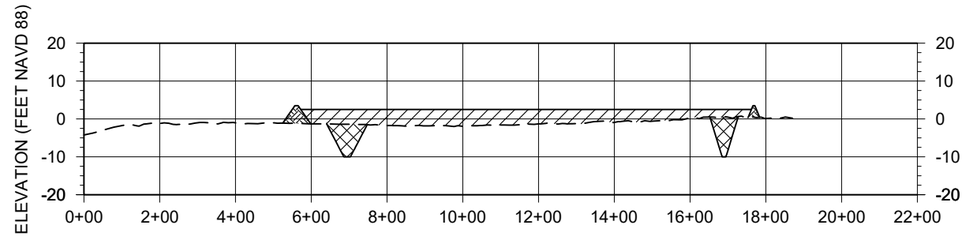

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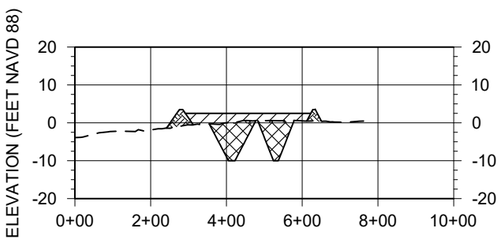

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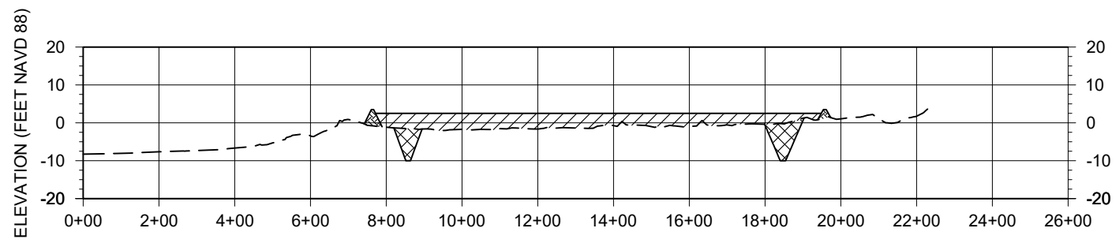
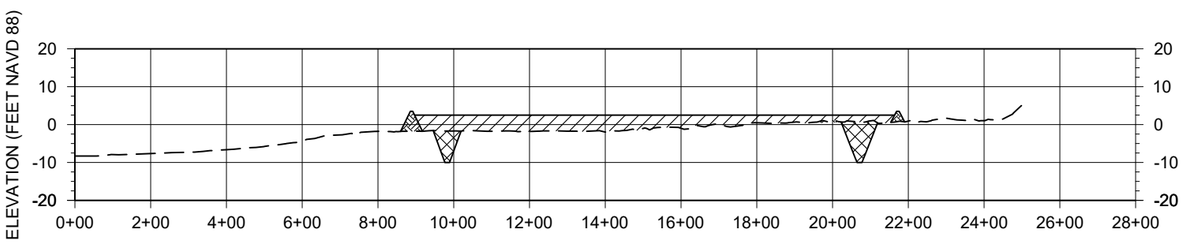
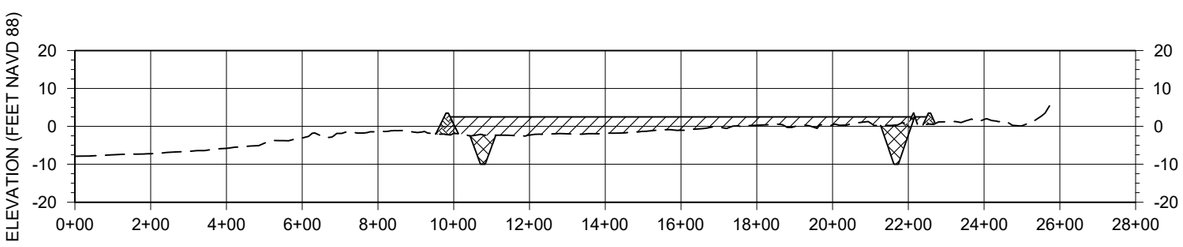


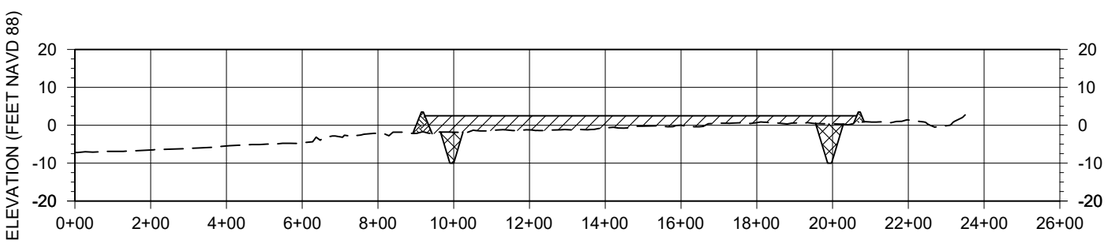
M1-11



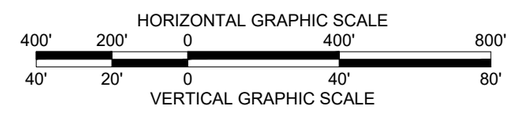
M1-12



M1-13



M1-14



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

MARSH CREATION AREA SECTIONS

DESIGNED BY: GREG MATTSON, P.E. - 0042397

APPROVED BY: SHANNON HAYNES, P.E. - 0030552

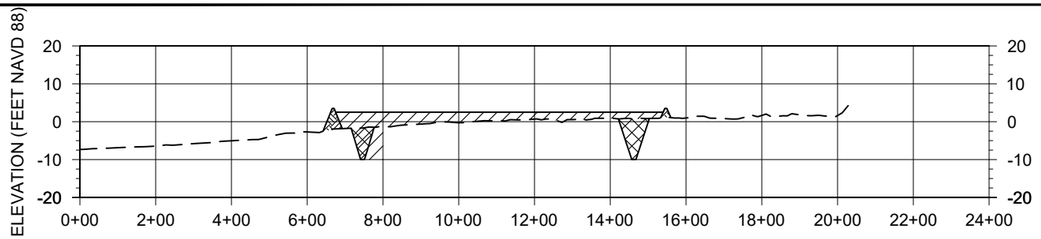
NEW ORLEANS LANDBRIDGE SHORELINE STABILIZATION & MARSH CREATION PROJECT

STATE PROJECT NUMBER: PO-0169

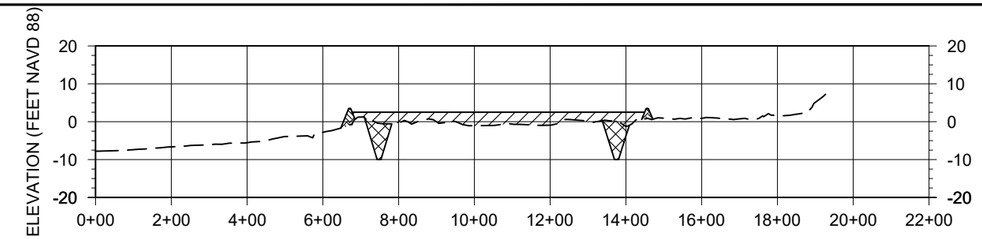
DRAWN BY: SHANE FAUST

DATE: OCTOBER 2018

SHEET 15 OF 31



M1-15



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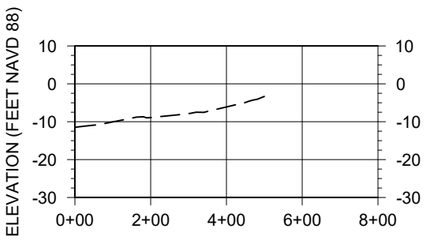

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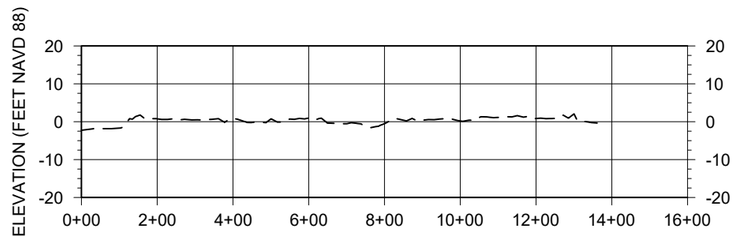

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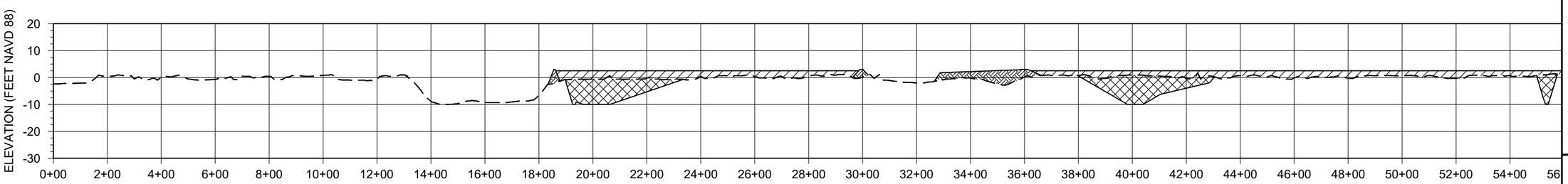

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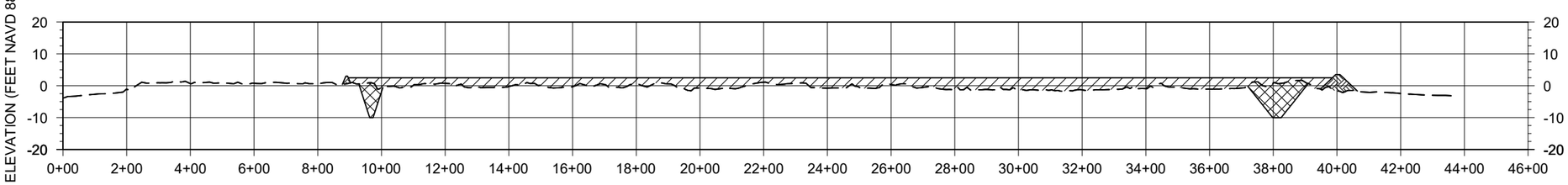

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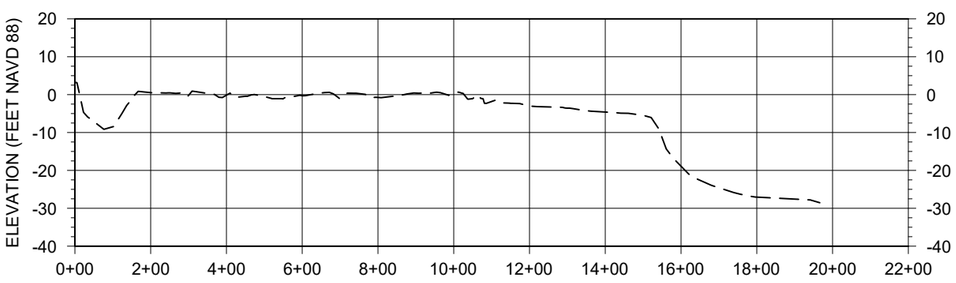


M2-4

HORIZONTAL GRAPHIC SCALE
400' 200' 0 400' 800'
40' 20' 0 40' 80'
VERTICAL GRAPHIC SCALE

REV.	DATE	DESCRIPTION	BY

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

MARSH CREATION AREA SECTIONS

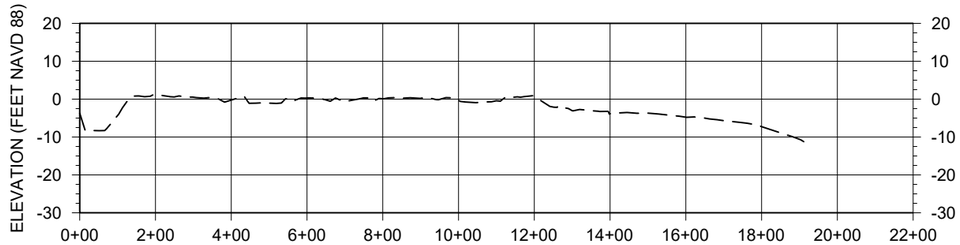
DESIGNED BY: GREG MATTSON, P.E. - 0042397
APPROVED BY: SHANNON HAYNES, P.E. - 0030552

NEW ORLEANS LANDBRIDGE SHORELINE STABILIZATION & MARSH CREATION PROJECT

STATE PROJECT NUMBER: PO-0169
DRAWN BY: SHANE FAUST

DATE: OCTOBER 2018

SHEET 16 OF 31



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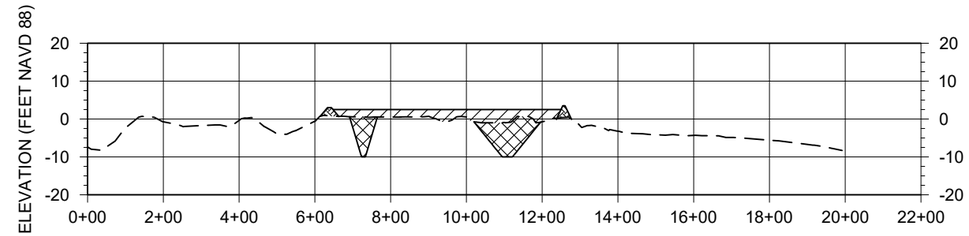

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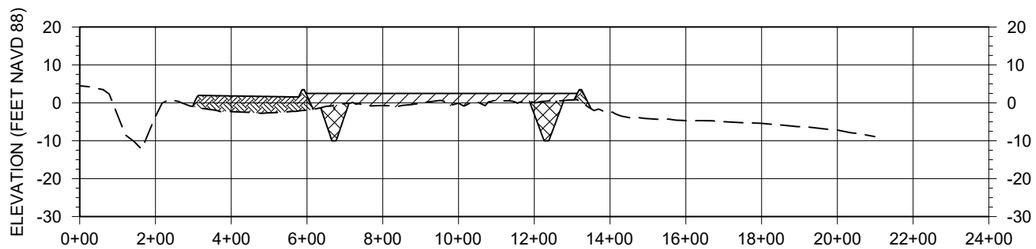

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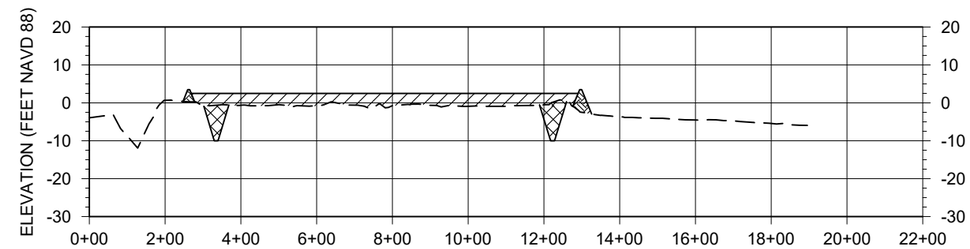

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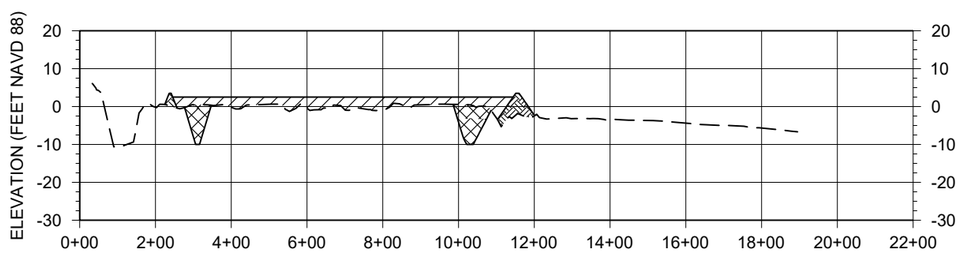

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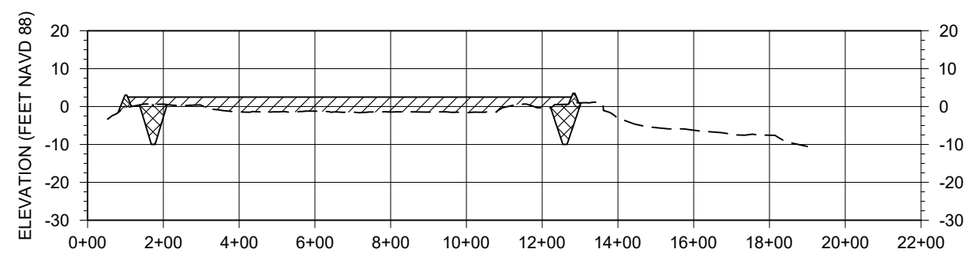

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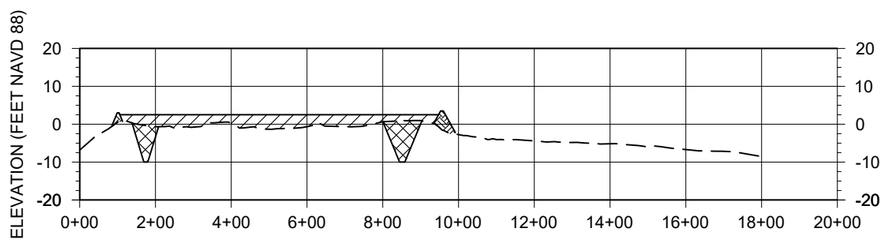

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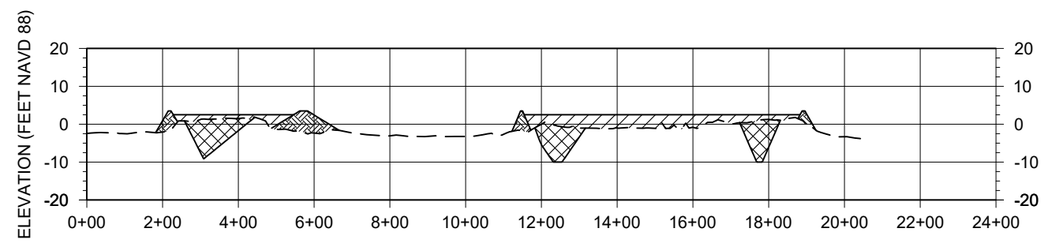


M2-12

HORIZONTAL GRAPHIC SCALE

400' 200' 0 400' 800'

40' 20' 0 40' 80'

VERTICAL GRAPHIC SCALE

REV.	DATE	DESCRIPTION	BY

COASTAL PROTECTION AND RESTORATION AUTHORITY

150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

MARSH CREATION AREA SECTIONS

DESIGNED BY: GREG MATTSON, P.E. - 0042397

APPROVED BY: SHANNON HAYNES, P.E. - 0030552

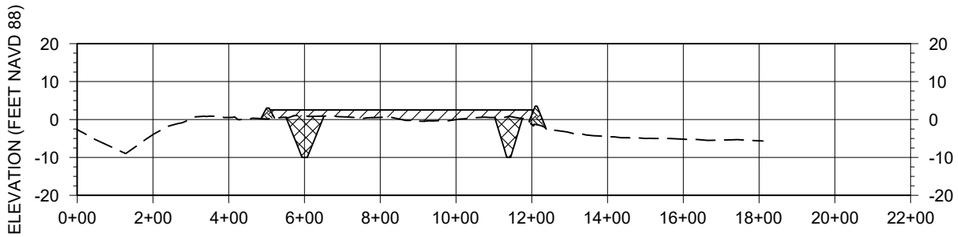
NEW ORLEANS LANDBRIDGE SHORELINE STABILIZATION & MARSH CREATION PROJECT

STATE PROJECT NUMBER: PO-0169

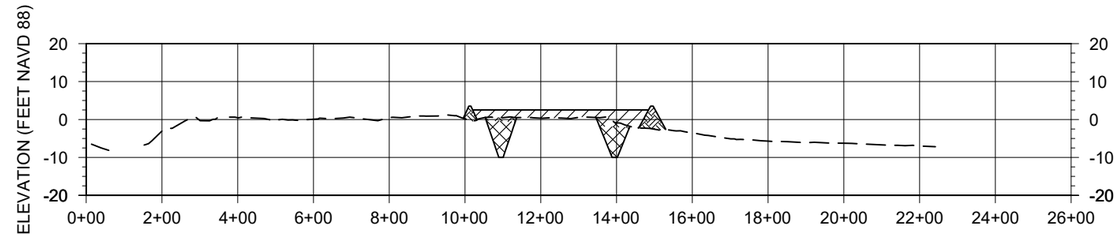
DRAWN BY: SHANE FAUST

DATE: OCTOBER 2018

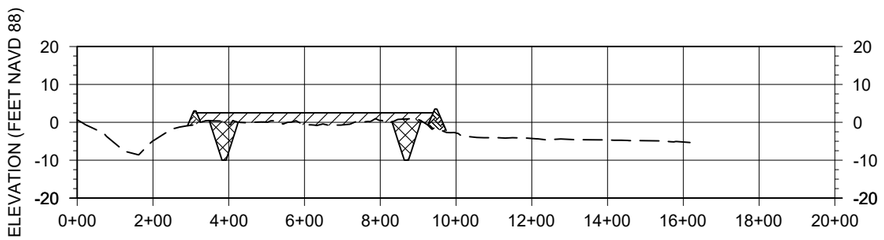
SHEET 17 OF 31



M2-13



M2-14



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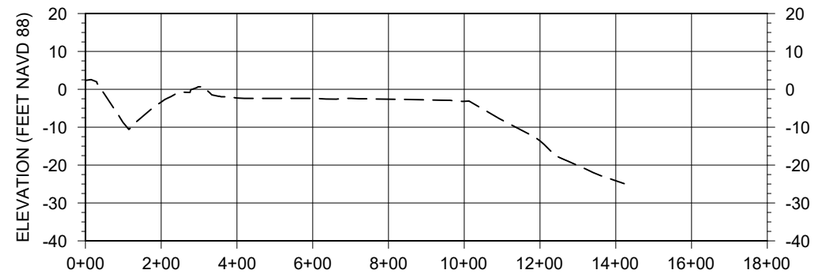

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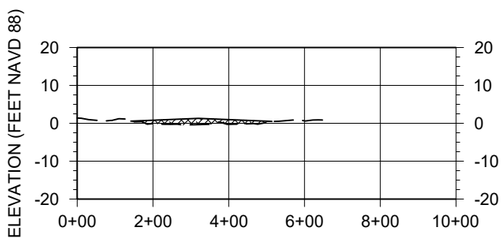
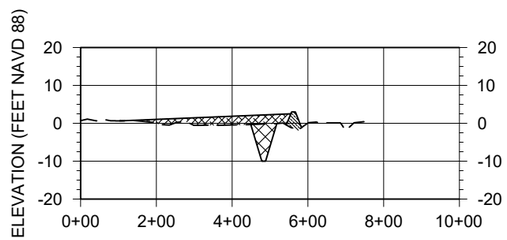


M3-1



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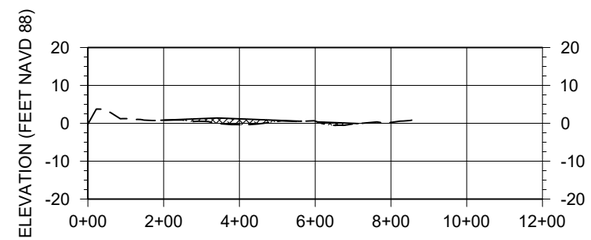

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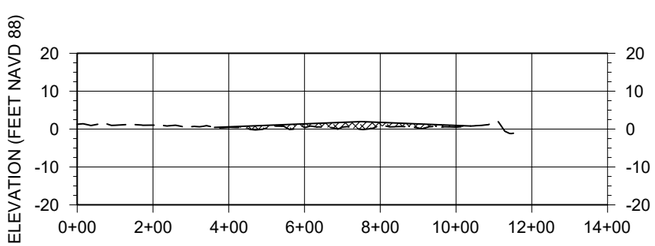

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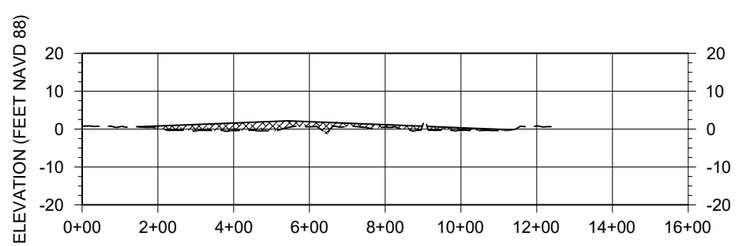


M3-5

HORIZONTAL GRAPHIC SCALE

400' 200' 0 400' 800'

40' 20' 0 40' 80'

VERTICAL GRAPHIC SCALE

REV.	DATE	DESCRIPTION	BY

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

MARSH CREATION AREA SECTIONS

DESIGNED BY: GREG MATTSON, P.E. - 0042397

APPROVED BY: SHANNON HAYNES, P.E. - 0030552

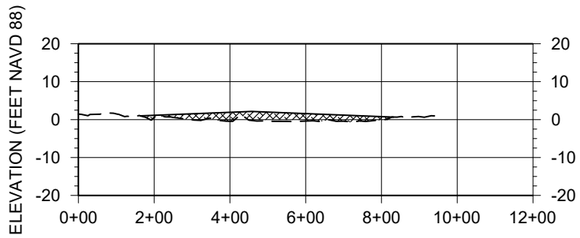
NEW ORLEANS LANDBRIDGE SHORELINE STABILIZATION & MARSH CREATION PROJECT

STATE PROJECT NUMBER: PO-0169

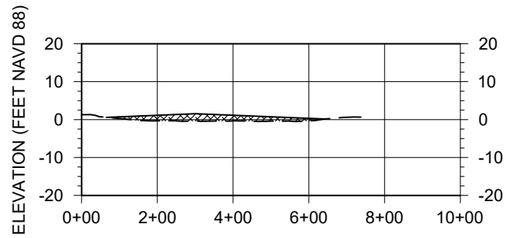
DRAWN BY: SHANE FAUST

DATE: OCTOBER 2018

SHEET 18 OF 31



M3-6



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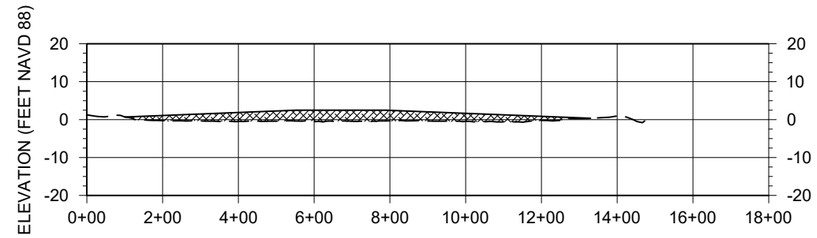

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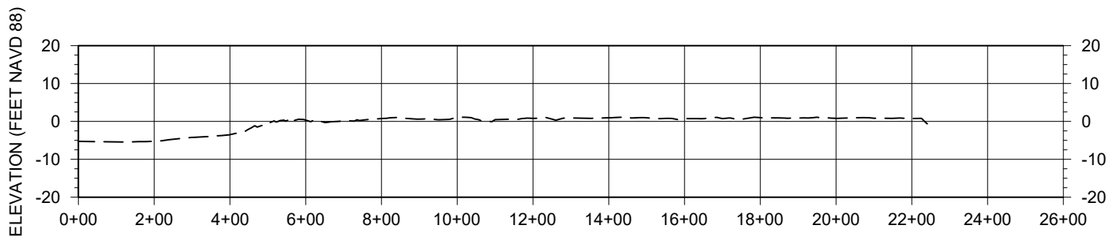
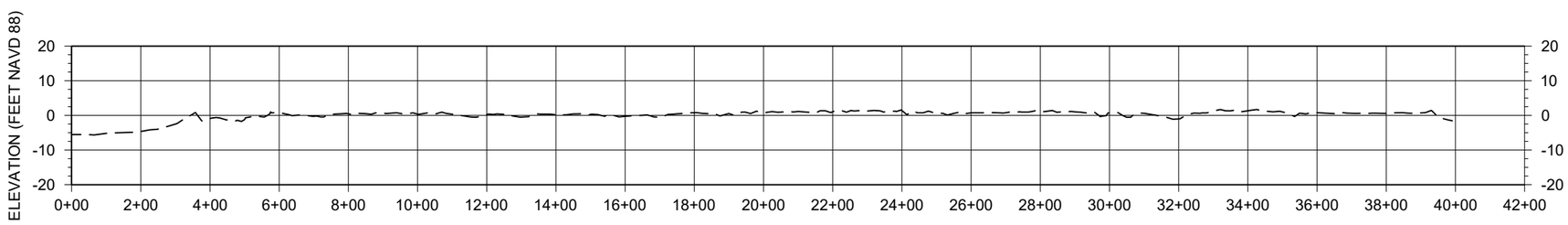
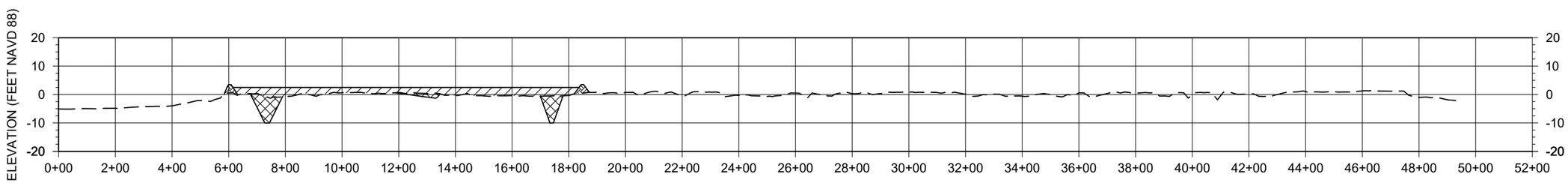


M4-1



M4-2



M4-3

HORIZONTAL GRAPHIC SCALE

400' 200' 0 400' 800'

40' 20' 0 40' 80'

VERTICAL GRAPHIC SCALE

REV.	DATE	DESCRIPTION	BY

COASTAL PROTECTION AND RESTORATION AUTHORITY

150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

MARSH CREATION AREA SECTIONS

DESIGNED BY: GREG MATTSON, P.E. - 0042397

APPROVED BY: SHANNON HAYNES, P.E. - 0030552

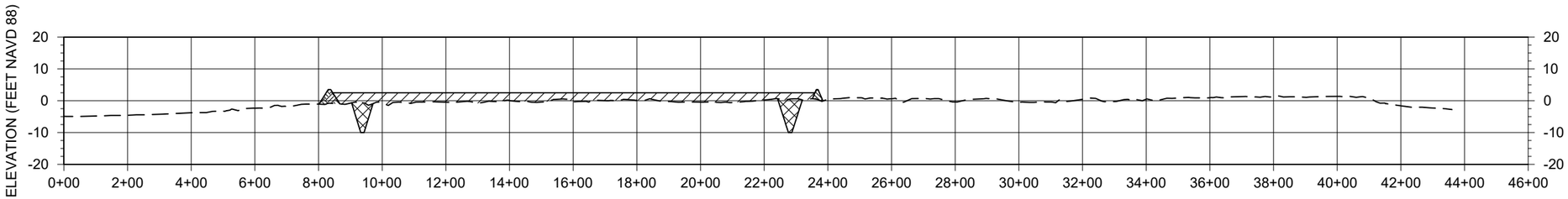
NEW ORLEANS LANDBRIDGE SHORELINE STABILIZATION & MARSH CREATION PROJECT

STATE PROJECT NUMBER: PO-0169

DRAWN BY: SHANE FAUST

DATE: OCTOBER 2018

SHEET 19 OF 31



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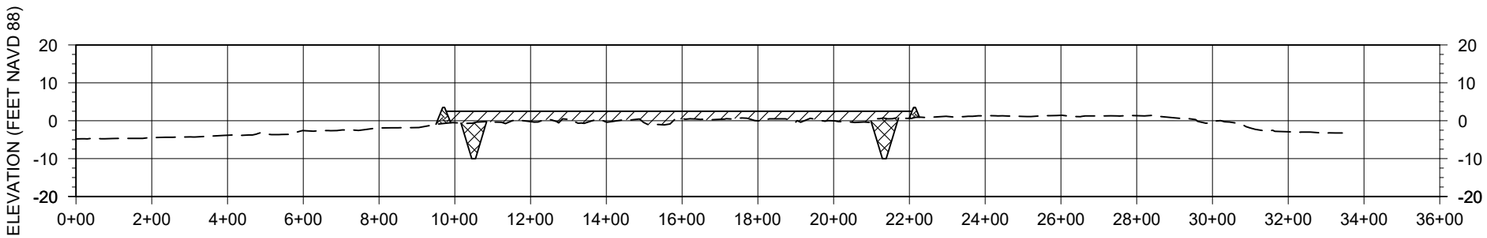
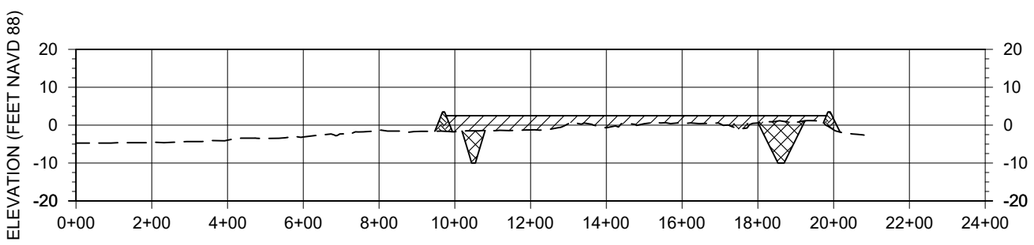


M4-5



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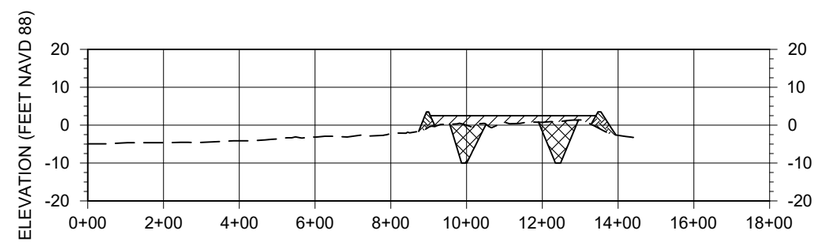
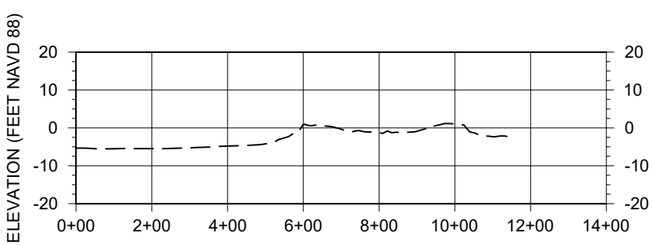


M4-7



M4-8

HORIZONTAL GRAPHIC SCALE

400' 200' 0 400' 800'

40' 20' 0 40' 80'

VERTICAL GRAPHIC SCALE

REV.	DATE	DESCRIPTION	BY

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

MARSH CREATION AREA SECTIONS

DESIGNED BY: GREG MATTSON, P.E. - 0042397

APPROVED BY: SHANNON HAYNES, P.E. - 0030552

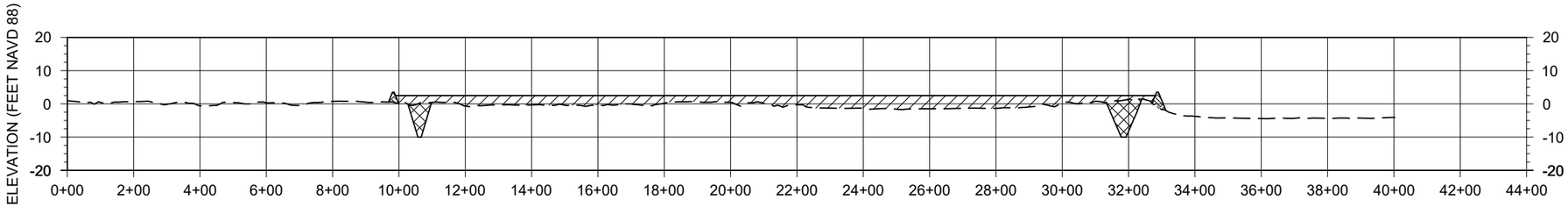
NEW ORLEANS LANDBRIDGE SHORELINE STABILIZATION & MARSH CREATION PROJECT

STATE PROJECT NUMBER: PO-0169

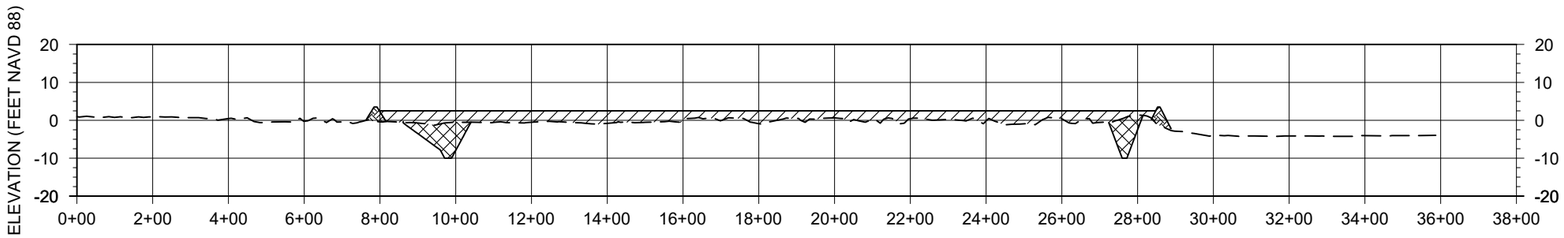
DRAWN BY: SHANE FAUST

DATE: OCTOBER 2018

SHEET 20 OF 31



M4-9



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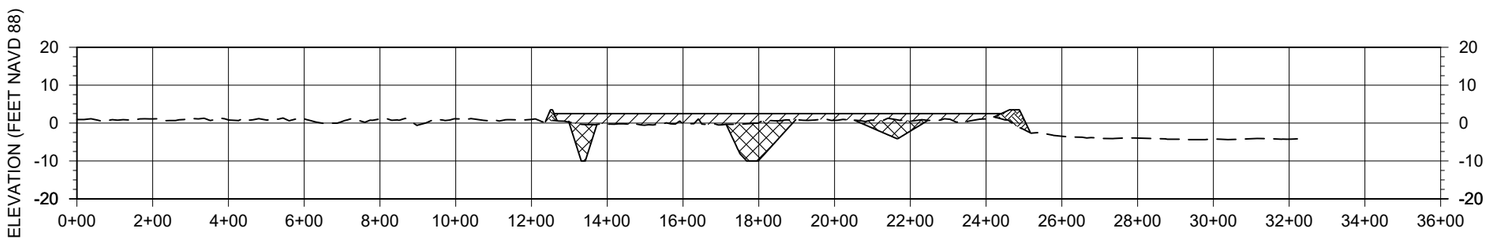

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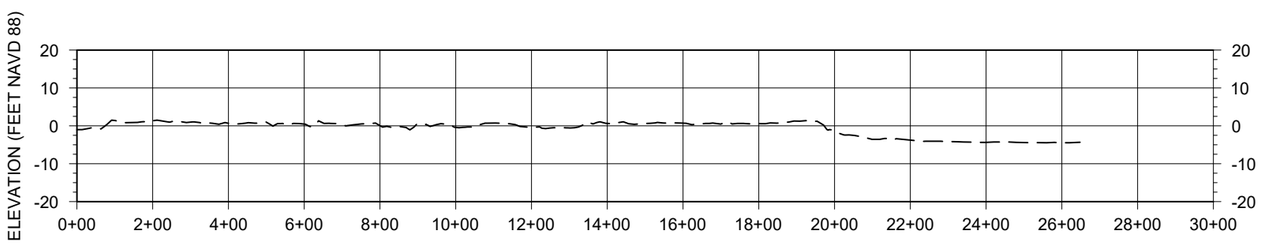

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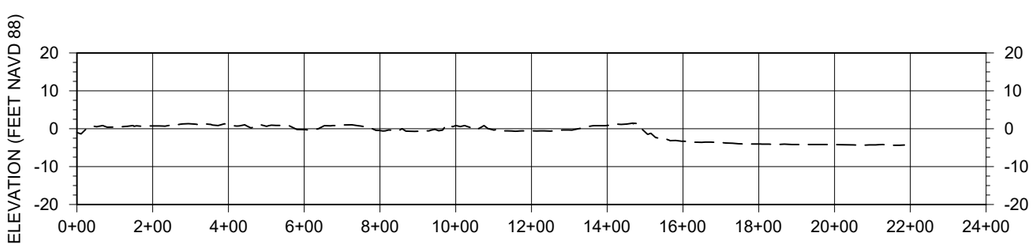


M4-13

HORIZONTAL GRAPHIC SCALE

400' 200' 0 400' 800'

40' 20' 0 40' 80'

VERTICAL GRAPHIC SCALE

REV.	DATE	DESCRIPTION	BY

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

MARSH CREATION AREA SECTIONS

DESIGNED BY: GREG MATTSON, P.E. - 0042397

APPROVED BY: SHANNON HAYNES, P.E. - 0030552

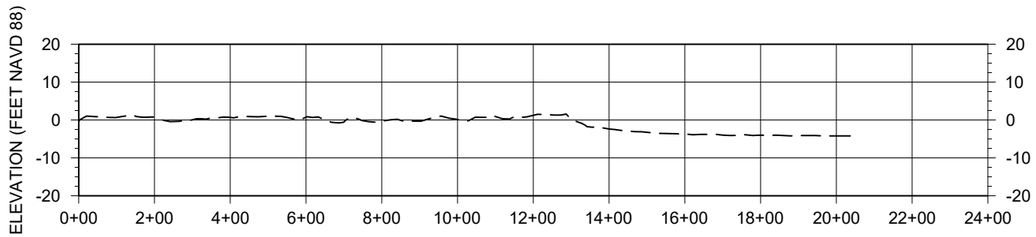
NEW ORLEANS LANDBRIDGE SHORELINE STABILIZATION & MARSH CREATION PROJECT

STATE PROJECT NUMBER: PO-0169

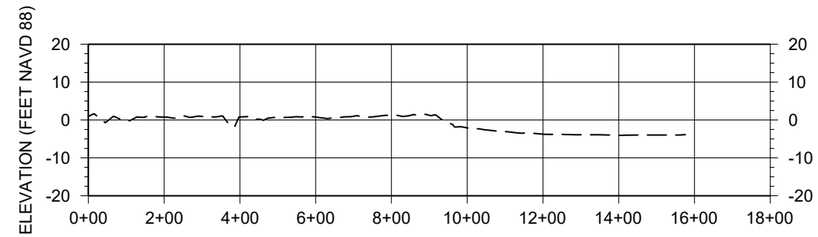
DRAWN BY: SHANE FAUST

DATE: OCTOBER 2018

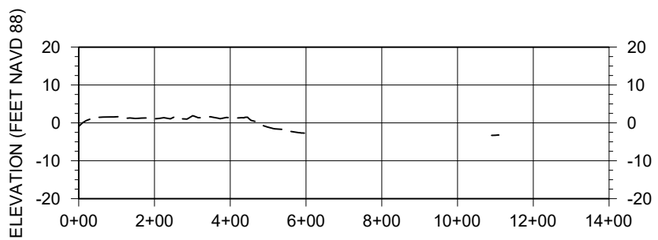
SHEET 21 OF 31



M4-14



M4-15



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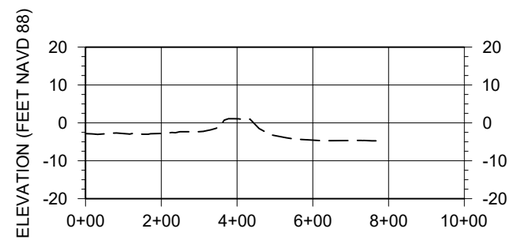

M4-17

HORIZONTAL GRAPHIC SCALE

400' 200' 0 400' 800'

40' 20' 0 40' 80'

VERTICAL GRAPHIC SCALE

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NEW ORLEANS LANDBRIDGE SHORELINE STABILIZATION & MARSH CREATION PROJECT

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SHEET 22 OF 31