STATE OF LOUISIANA
DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION

NORTH LAKE MECHANT LANDBRIDGE RESTORATION PROJECT

TE-44
TERREBONNE PARISH

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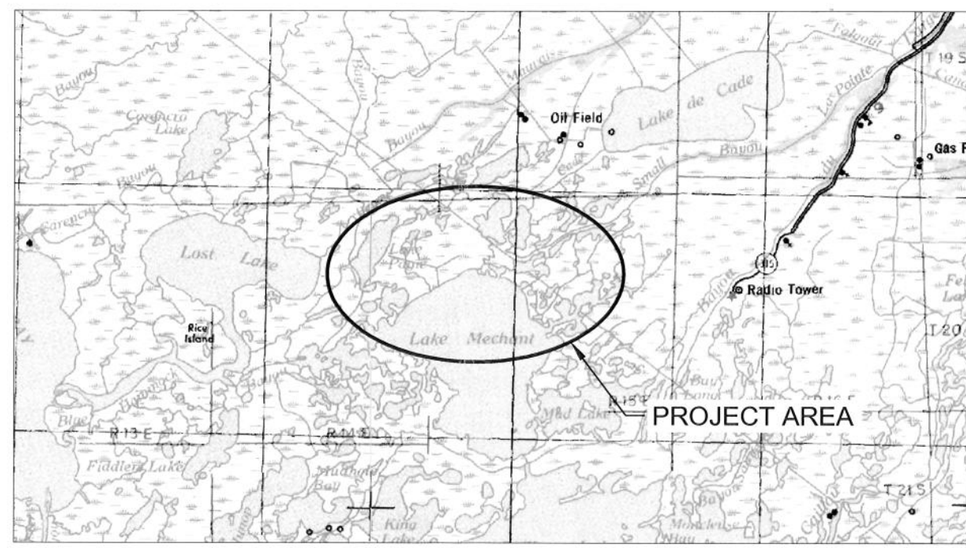


20,000' 10,000' 0' 20,000' 40,000'

STATE OF LOUISIANA
INSET MAP

STATE OF LOUISIANA
JERRY S. CARROLL
REG. No. 24418
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING
1-17-08

FEDERAL PROJECT SPONSOR

STATE PROJECT SPONSOR

CED DIRECTOR

CED ENGINEER MANAGER

1-17-08
CED PROJECT ENGINEER

TYPE OF CONSTRUCTION

CLASSIFICATION III (Heavy Construction)
SHORELINE PROTECTION AND MARSH CREATION
HYDRAULIC DREDGING

REV.	DATE	DESCRIPTION	BY

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

DRAWN BY: SHANE FAUST
DESIGNED BY: JERRY CARROLL, P.E.

NORTH LAKE MECHANT LANDBRIDGE RESTORATION PROJECT
STATE PROJECT NUMBER: TE-44
FEDERAL PROJECT NUMBER: N/A
APPROVED BY: LUKE LE BAS, P.E.

TITLE SHEET
DATE: JANUARY 2008
SHEET 1 OF 65

GENERAL NOTES

1. ALL ELEVATIONS ARE GIVEN IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88). ALL HORIZONTAL COORDINATES ARE GIVEN IN THE NORTH AMERICAN DATUM OF 1983 (NAD 83, LOUISIANA STATE PLANE SOUTH ZONE US FEET). BACKGROUND IMAGERY WAS TAKEN AFTER HURRICANES KATRINA AND RITA (FALL 2005).
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NAVIGATING FROM A NAVIGABLE WATER BODY TO THE PROJECT AREA. THE CONTRACTOR MUST ACCESS THE PROJECT AREA FROM THE NORTH THROUGH BAYOU DECADE AND BAYOU RACCOURCI (SEE SHEET 3). ACCESS FROM THE SOUTH THROUGH LAKE MECHANT WILL NOT BE PERMITTED. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR NAVIGATING WITHIN THE LIMITS OF THE PROJECT PLAN AREA AND DREDGING ONLY WITHIN THE LIMITS OF THE FLOTATION AND ACCESS CHANNELS. THE LDNR PROJECT ENGINEER OR HIS REPRESENTATIVE SHALL MONITOR THE EQUIPMENT LOCATION DURING CONSTRUCTION.
3. THE PROJECT FOOTPRINT ENCOMPASSES LAND OWNED BY APACHE LOUISIANA MINERALS, INC. AND LOUISIANA LAND AND EXPLORATION COMPANY (LL&E), A SUBSIDIARY OF BURLINGTON RESOURCES (BR). LANDS OWNED BY THESE COMPANIES ARE DEPICTED ON SHEET 3. THEIR CONTACT INFORMATION IS AS FOLLOWS:

   APACHE LOUISIANA MINERALS, INC.
   CONTACT: TIM ALLEN
   PHONE: (985) 879-3528

   LL&E/BR
   CONTACT: JEFF DEBLIEUX
   PHONE: (985) 853-3009

   THE CONTRACTOR SHALL OBTAIN A TEMPORARY ACCESS AND CONSTRUCTION PERMIT FROM LL&E PRIOR TO MOBILIZATION OF EQUIPMENT OR PERFORMING ANY WORK ON THE PROJECT. THE CONTRACTOR SHALL FURNISH LL&E AN INSURANCE CERTIFICATE NAMING THEM AS INSURED IN AN AMOUNT NOT LESS THAN $1 MILLION. A COPY OF THE APPLICATION HAS BEEN INCLUDED IN APPENDIX A OF THE SPECIFICATIONS. THE CONTRACTOR SHALL SUBMIT THE PERMIT APPLICATION AND INSURANCE CERTIFICATE TO THE ENGINEER PRIOR TO CONSTRUCTION.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING PIPELINE AND UTILITY OPERATORS 5 WORKING DAYS IN ADVANCE OF THE WORK. ALL PIPELINES AND UNDERGROUND UTILITIES SHALL BE MARKED FOR THE DURATION OF CONSTRUCTION BY THE CONTRACTOR OR PIPELINE OR UTILITY REPRESENTATIVE. THE CONTRACTOR SHALL NOT ANCHOR, SPUD, OR EXCAVATE WITHIN 50 FEET OF ANY PIPELINE. CROSSING OF PIPELINES SHALL BE MADE WITH FLOATING EQUIPMENT ONLY. THE FOLLOWING IS A LIST OF UTILITIES AND PIPELINE OPERATORS KNOWN TO HAVE PIPELINES IN THE VICINITY. PIPELINE LOCATIONS SHOWN ON SHEET 3 ARE APPROXIMATIONS. THE OWNER IS NOT LIABLE FOR EXACT LOCATIONS. THE CONTRACTOR MUST CALL LOUISIANA ONE CALL AT 1-800-272-3020 AT LEAST 48 HOURS PRIOR TO PERFORMING ANY EXCAVATION OR DEMOLITION ACTIVITY. THE CONTRACTOR SHALL, AT ALL TIMES, COMPLY WITH THE LOUISIANA UNDERGROUND UTILITIES AND FACILITIES DAMAGE PREVENTION LAW.

   TENNESSEE GAS
   CONTACT: LARRY SLOWIK
   PHONE: (985) 879-3516 EXT. 2022
   PIPE SIZE: 24" AND 2"

   TEXAS GAS
   CONTACT: DEXTER FAULK
   PHONE: (985) 631-0186
   PIPE SIZE: 20"
5. THE WORK SPECIFIED ON SHEET 11 MAY REQUIRE DE-ENERGIZATION OF A SOUTH LOUISIANA ELECTRIC COOPERATIVE ASSOCIATION (SLECA) POWER LINE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING SLECA AND LDNR A MINIMUM OF 2 WEEKS IN ADVANCE OF PERFORMING ANY WORK WITHIN 500 FEET OF THE SLECA POWER LINE. POWER LINES WILL NOT BE DE-ENERGIZED DURING THE SHRIMP TRAWLING SEASON, AUGUST 15 THROUGH NOVEMBER 15 OF A CALENDAR YEAR. FURTHERMORE, THE POWER LINE WILL BE DE-ENERGIZED FROM MONDAY AT 9:00 AM UNTIL THE FOLLOWING THURSDAY AT 4:00 PM FOR SUCH TIME AS IS REQUIRED FOR THE CONSTRUCTION OF SAID WORK WITH THE EXCEPTION OF SHRIMP TRAWLING SEASON.

   SLECA
   CONTACT: TODD SULLIVAN
   PHONE: (985) 876-6880
6. ELEVATIONS SHOWN ON PLANS ARE BASED ON SURVEYS PERFORMED IN JUNE 2002 AND OCTOBER 2003 BY ABMB ENGINEERS, INC.
7. THE ALIGNMENT OF THE PROJECT FEATURES MAY BE REVISED BY THE LDNR PROJECT ENGINEER AT THE TIME OF CONSTRUCTION TO REFLECT CHANGES IN FIELD CONDITIONS.
8. 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.
9. 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.
10. MATERIAL STOCKPILED LAKEWARD OF FLOTATION AND ACCESS CHANNELS SHALL BE DEPOSITED IN AREAS SHOWN ON THE PLANS AND PLACED SUCH THAT IT IS READILY AVAILABLE TO BE USED TO BACK FILL FLOTATION AND ACCESS CHANNELS. ONLY MATERIAL DREDGED FROM FLOTATION AND ACCESS CHANNELS SHALL BE BACK FILLED INTO SAID CHANNELS.
11. MEAN HIGH WATER (MHW) AND MEAN LOW WATER (MLW) WERE CALCULATED FROM THE NOAA GRAND ISLE TIDAL GAGE AND A USGS GAGE IN BAYOU RACCOURCI. DATA FROM 01/01/1984 TO 12/31/2002 WAS USED. ELEVATIONS ARE REFERENCED TO NAVD 88, US FEET. MHW=1.45' AND MLW =0.27'. THE USGS GAGE IN BAYOU RACCOURCI IS NO LONGER IN USE.
12. THE CONTRACTOR SHALL PERFORM A MAGNETOMETER SURVEY OF THE FLOATATION ACCESS CHANNELS, THE BORROW AREA AND ALL PROPOSED PIPELINE ACCESS CORRIDORS (SEE SHEET 3, NOTE #2). 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 MOBILIZATION FOR CONSTRUCTION. MAGNETOMETER LINES SHALL BE RUN ALONG THE CENTERLINE ALIGNMENT OF FLOTATION ACCESS CHANNELS. ADDITIONAL MAGNETOMETER LINES SHALL BE RUN PERPENDICULAR TO THE FLOTATION ACCESS CHANNEL, BEGINNING AT THE EDGE OF THE PERMANENT OR TEMPORARY SPOIL PLACEMENT AND EXTENDING 25.0' BEYOND THE PERMANENT OR TEMPORARY SPOIL, AND SHALL BE SPACED A MAXIMUM OF 500.0' APART. MAGNETOMETER LINES IN THE BORROW AREA SHALL FORM A GRID PATTERN WITH A MAXIMUM OFFSET OF 500.0' APART AND SHALL BE ORIENTED NORTH/SOUTH AND EAST/WEST. THE DRAWINGS SHALL BE STAMPED BY A REGISTERED PROFESSIONAL SURVEYOR LICENSED IN LOUISIANA. SEE SPECIFICATION SECTION "TS 3.5 MAGNETOMETER SURVEY" FOR ADDITIONAL REQUIREMENTS.
13. ALL EQUIPMENT SHALL BE FLOATING AT ALL TIMES DURING TRANSIT TO AND FROM THE PROJECT SITE.

SUMMARY OF ESTIMATED QUANTITIES

ITEM No.	DESCRIPTION	UNIT	ESTIMATED QUANTITY
1	MOBILIZATION AND DEMOBILIZATION	LS	1
2	SURVEYING	LS	1
3	GRADE STAKES	EACH	138
4	EARTHEN CONTAINMENT DIKES	LIN. FT.	86,600
5	HYDRAULIC DREDGING	CU. YDS.	4,970,000
6	FLOTATION ACCESS CHANNELS	LS	1
7	RIPRAP	TONS	12,000
8	WOVEN GEOTEXTILE FABRIC	SQ. YDS.	25,000
9	NON-WOVEN GEOTEXTILE FABRIC	SQ. YDS.	16,535
10	CONCRETE MATS	SQ. YDS.	16,535
11	STEEL SHEET PILING	SQ. FT.	21,788
12	EARTHWORK	CU. YDS.	12,600
13	EXISTING WEIR REMOVAL	LS	1
14	SETTLEMENT PLATES	EACH	7
15	WARNING SIGNS	EACH	9

STATE OF LOUISIANA
JERRY S. CARROLL
REG. No. 24418
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING
3-27-08

QUANTITY NOTES:

1. QUANTITIES SHOWN ARE FOR BIDDING PURPOSES ONLY AND WERE CALCULATED ACCORDING TO CONDITIONS SURVEYED IN JUNE 2002 AND OCTOBER 2003. THE OWNER RESERVES THE RIGHT TO ADJUST QUANTITIES WITHOUT ADJUSTMENT OF THE UNIT PRICE.
2. HYDRAULIC DREDGING QUANTITIES FOR MARSH CREATION AND MARSH NOURISHMENT AREA ARE BASED ON BORROW AREA CUT VOLUME. ACTUAL QUANTITIES FOR PAYMENT WILL BE BASED ON SURVEYS PERFORMED AS PART OF THIS CONTRACT AS REQUIRED IN "TS-3 SURVEYING" OF THE SPECIFICATIONS.
3. EARTHWORK QUANTITIES ARE BASED ON FILL IN PLACE. SETTLEMENT OF EARTHEN MATERIAL PLACED BY BUCKET IS NOT INCLUDED IN THE BID QUANTITIES.

REV.	DATE	DESCRIPTION	BY
1	03/27/2008	REVISED ITEM NOS. 9 & 10 IN SUMMARY OF ESTIMATED QUANTITIES	SF

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

DRAWN BY: SHANE FAUST | DESIGNED BY: JERRY CARROLL, P.E.

NORTH LAKE MECHANT LANDBRIDGE RESTORATION PROJECT

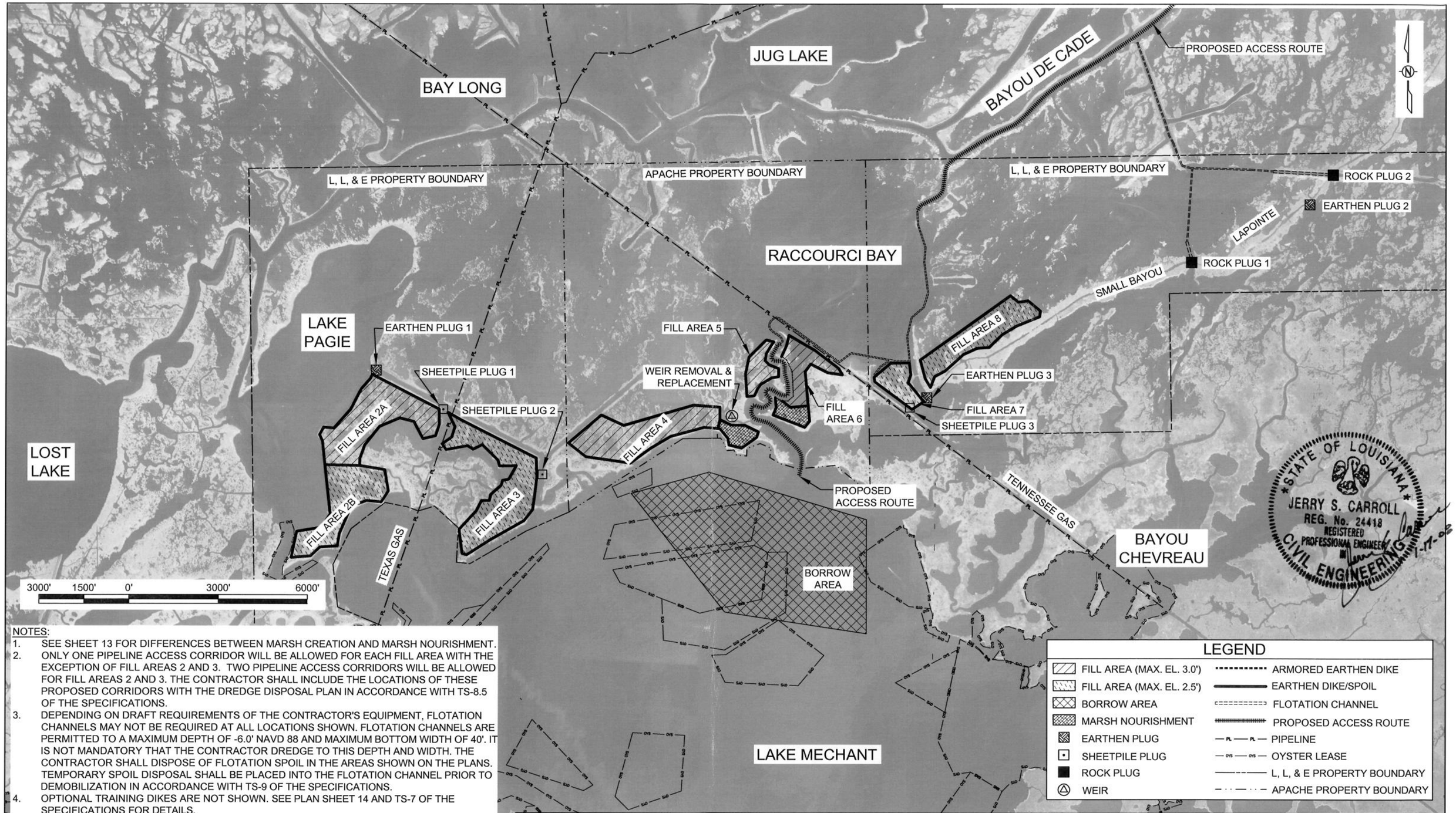
STATE PROJECT NUMBER: TE-44

FEDERAL PROJECT NUMBER: N/A

APPROVED BY: LUKE LE BAS, P.E.

GENERAL NOTES

DATE: JANUARY 2008



NOTES:

1. SEE SHEET 13 FOR DIFFERENCES BETWEEN MARSH CREATION AND MARSH NOURISHMENT.
2. ONLY ONE PIPELINE ACCESS CORRIDOR WILL BE ALLOWED FOR EACH FILL AREA WITH THE EXCEPTION OF FILL AREAS 2 AND 3. TWO PIPELINE ACCESS CORRIDORS WILL BE ALLOWED FOR FILL AREAS 2 AND 3. THE CONTRACTOR SHALL INCLUDE THE LOCATIONS OF THESE PROPOSED CORRIDORS WITH THE DREDGE DISPOSAL PLAN IN ACCORDANCE WITH TS-8.5 OF THE SPECIFICATIONS.
3. DEPENDING ON DRAFT REQUIREMENTS OF THE CONTRACTOR'S EQUIPMENT, FLOTATION CHANNELS MAY NOT BE REQUIRED AT ALL LOCATIONS SHOWN. FLOTATION CHANNELS ARE PERMITTED TO A MAXIMUM DEPTH OF -6.0' NAVD 88 AND MAXIMUM BOTTOM WIDTH OF 40'. IT IS NOT MANDATORY THAT THE CONTRACTOR DREDGE TO THIS DEPTH AND WIDTH. THE CONTRACTOR SHALL DISPOSE OF FLOTATION SPOIL IN THE AREAS SHOWN ON THE PLANS. TEMPORARY SPOIL DISPOSAL SHALL BE PLACED INTO THE FLOTATION CHANNEL PRIOR TO DEMOBILIZATION IN ACCORDANCE WITH TS-9 OF THE SPECIFICATIONS.
4. OPTIONAL TRAINING DIKES ARE NOT SHOWN. SEE PLAN SHEET 14 AND TS-7 OF THE SPECIFICATIONS FOR DETAILS.
5. THE OWNER HAS ACQUIRED OYSTER LEASE AREAS IMPACTED BY PROPOSED PROJECT FEATURES. THE AREA ACQUIRED CONSISTS OF OYSTER LEASES WITHIN THE FILL AREA AND BORROW AREA BOUNDARIES, PLUS A 150.0' BUFFER AREA SURROUNDING THE BOUNDARIES. THE CONTRACTOR SHALL NOT IMPACT OYSTER LEASE AREAS OUTSIDE OF THE ACQUIRED LEASE AREA. WHERE THE CONTRACTOR CROSSES AN OYSTER LEASE AREA WITH THE DREDGE DISCHARGE PIPELINE, THE PIPELINE SHALL BE FLOATING ACROSS THE LEASE AREA.

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FEDERAL PROJECT NUMBER: N/A
APPROVED BY: LUKE LE BAS, P.E.

PROJECT FEATURES

DATE: JANUARY 2008
SHEET 3 OF 65

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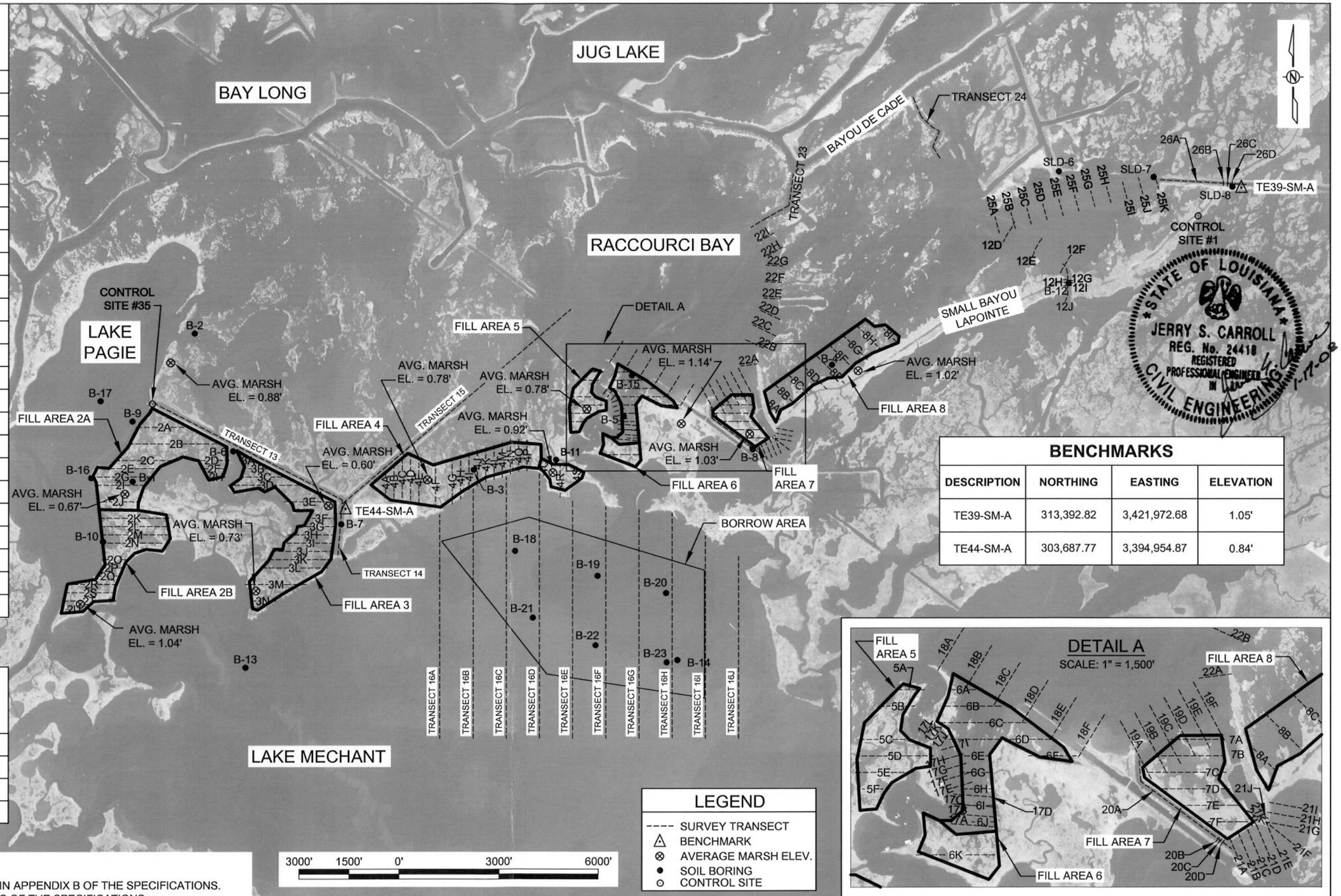
NORTH LAKE MECHANT LANDBRIDGE RESTORATION PROJECT BORINGS

BORINGS	NORTHING	EASTING
B-1	304,514.13	3,388,542.86
B-2	308,992.59	3,390,409.38
B-3	304,873.12	3,398,801.84
B-4	308,036.98	3,409,592.42
B-5	306,488.07	3,403,321.04
B-6	305,432.30	3,391,567.13
B-7	303,224.06	3,394,824.05
B-8	305,483.10	3,407,211.70
B-9	306,332.37	3,388,537.49
B-10	302,693.27	3,387,656.00
B-11	305,172.15	3,401,286.21
B-12	310,499.40	3,416,751.94
B-13	298,887.71	3,391,937.54
B-14	299,111.41	3,404,939.22
B-15	307,725.32	3,403,571.78
B-16	304,619.58	3,387,299.86
B-17	306,947.76	3,387,579.83
B-18	302,417.26	3,400,046.36
B-19	301,661.63	3,402,534.14
B-20	301,139.74	3,404,596.48
B-21	300,399.18	3,400,583.02
B-22	299,564.19	3,402,471.88
B-23	299,044.43	3,404,613.25

SOUTH LAKE DECADE FRESHWATER/SEDIMENT INTRODUCTION BORINGS

BORING	NORTHING	EASTING
SLD-6	313,880.24	3,416,452.65
SLD-7	313,709.18	3,419,320.32
SLD-8	313,419.02	3,421,698.54



BENCHMARKS

DESCRIPTION	NORTHING	EASTING	ELEVATION
TE39-SM-A	313,392.82	3,421,972.68	1.05'
TE44-SM-A	303,687.77	3,394,954.87	0.84'

LEGEND

- ---- SURVEY TRANSECT
- △ BENCHMARK
- ⊗ AVERAGE MARSH ELEV.
- ● SOIL BORING
- ○ CONTROL SITE

NOTES:

1. SEE SHEET 33-65 FOR CROSS SECTIONS.
2. BENCHMARK DATA SHEETS ARE INCLUDED IN APPENDIX B OF THE SPECIFICATIONS.
3. BORING LOGS ARE INCLUDED IN APPENDIX C OF THE SPECIFICATIONS.
4. SURVEY PERFORMED IN JUNE 2002 AND OCTOBER 2003 BY ABMB ENGINEERS, INC.
5. CONTRACTOR WILL BE ALLOWED TO PLACE TEMPORARY SHEETING AT THE DESIGNATED CONTROL SITE LOCATIONS TO ASSIST IN CONSTRUCTION AND MAINTENANCE OF THE EARTHEN CONTAINMENT DIKE. ALL TEMPORARY SHEETING AND THE LOCATIONS FOR PLACEMENT THERE OF SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION AND SHALL BE CAREFULLY REMOVED UPON PROJECT COMPLETION. SEE SHEET 65 FOR SECTIONS OF THE DESIGNATED CONTROL SITE LOCATIONS.

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COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

DRAWN BY: SHANE FAUST
DESIGNED BY: JERRY CARROLL, P.E.

NORTH LAKE MECHANT LANDBRIDGE RESTORATION PROJECT

STATE PROJECT NUMBER: TE-44
FEDERAL PROJECT NUMBER:
APPROVED BY: LUKE LE BAS, P.E.

EXISTING SURVEY AND BORING LAYOUT

DATE: JANUARY 2008
SHEET 4 OF 65

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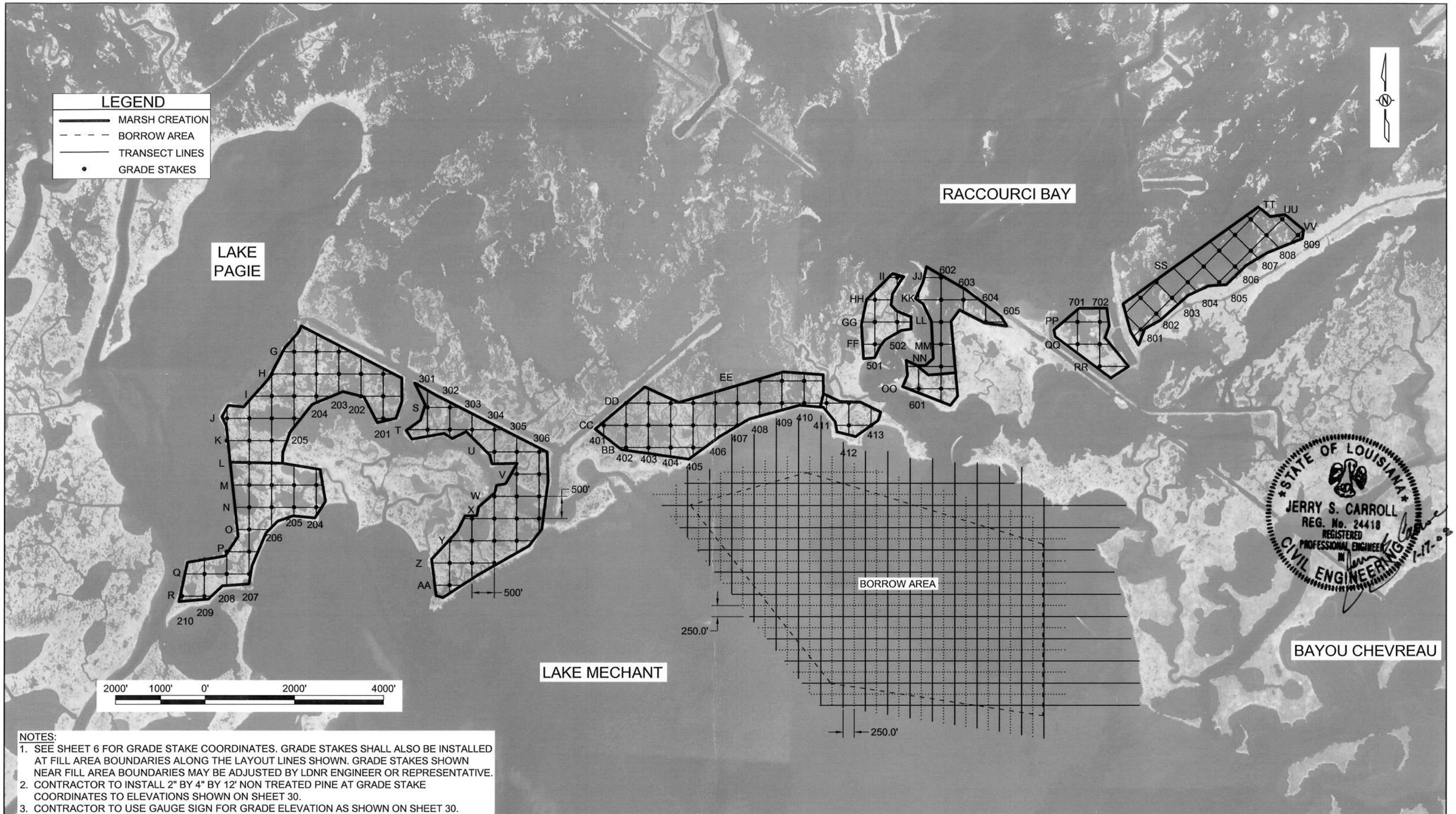

NOTES:

1. SEE SHEET 6 FOR GRADE STAKE COORDINATES. GRADE STAKES SHALL ALSO BE INSTALLED AT FILL AREA BOUNDARIES ALONG THE LAYOUT LINES SHOWN. GRADE STAKES SHOWN NEAR FILL AREA BOUNDARIES MAY BE ADJUSTED BY LDNR ENGINEER OR REPRESENTATIVE.
2. CONTRACTOR TO INSTALL 2" BY 4" BY 12' NON TREATED PINE AT GRADE STAKE COORDINATES TO ELEVATIONS SHOWN ON SHEET 30.
3. CONTRACTOR TO USE GAUGE SIGN FOR GRADE ELEVATION AS SHOWN ON SHEET 30.
4. BORROW AREA TRANSECTS SHALL BE SPACED 250' APART IN NORTH-SOUTH AND EAST-WEST DIRECTIONS AND SHALL EXTEND FROM THE SHORELINE TO 500' BEYOND THE BORROW AREA, WHERE SHOWN.
5. ALL TRANSECTS SHOWN SHALL BE INCLUDED IN PRE-CONSTRUCTION AND AS-BUILT SURVEYS AS SPECIFIED IN TS-3 OF THE SPECIFICATIONS.
6. PLACEMENT OF THE DREDGE DISCHARGE WILL NOT BE ALLOWED WITHIN 100' OF ANY GRADE STAKE OR MARSH CREATION BOUNDARY OR CONTAINMENT DIKE.

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CONSTRUCTION SURVEY & GRADE STAKE LAYOUT

DATE: JANUARY 2008
SHEET 5 OF 65

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200
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DD, 402 X = 3396406.50 Y = 305003.26
DD, 403 X = 3396906.50 Y = 305003.26
DD, 404 X = 3397406.50 Y = 305003.26
DD, 405 X = 3397906.50 Y = 305003.26
DD, 406 X = 3398406.50 Y = 305003.26
DD, 407 X = 3398906.50 Y = 305003.26
DD, 408 X = 3399406.50 Y = 305003.26
DD, 409 X = 3399906.50 Y = 305003.26
DD, 410 X = 3400406.50 Y = 305003.26

400 Cont.
DD, 411 X = 3400906.50 Y = 305003.26
DD, 412 X = 3401406.50 Y = 305003.26
EE, 408 X = 3399406.50 Y = 305503.26
EE, 409 X = 3399906.50 Y = 305503.26
EE, 410 X = 3400406.50 Y = 305503.26

500
FF, 501 X = 3401989.61 Y = 306327.22
GG, 501 X = 3401989.61 Y = 306827.22
GG, 502 X = 3402489.61 Y = 306827.22
HH, 501 X = 3401989.61 Y = 307327.22
II, 502 X = 3402489.61 Y = 307827.22

600
JJ, 602 X = 3403469.03 Y = 307827.22
KK, 602 X = 3403469.03 Y = 307327.22
KK, 603 X = 3403969.03 Y = 307327.22
LL, 602 X = 3403469.03 Y = 306827.22
LL, 604 X = 3404469.03 Y = 306827.22
MM, 602 X = 3403469.03 Y = 306327.22
NN, 602 X = 3403469.03 Y = 305827.22
OO, 601 X = 3402969.03 Y = 305327.22
OO, 602 X = 3403469.03 Y = 305327.22

700
PP, 701 X = 3406537.96 Y = 306827.22
PP, 702 X = 3407037.96 Y = 306827.22
QQ, 701 X = 3406537.96 Y = 306327.22
QQ, 702 X = 3407037.96 Y = 306327.22
RR, 702 X = 3407037.96 Y = 305827.22

800
SS, 802 X = 3407958.85 Y = 307367.68
SS, 803 X = 3408312.40 Y = 307721.23
TT, 801 X = 3407958.85 Y = 306660.57
TT, 802 X = 3408312.40 Y = 307014.13
TT, 803 X = 3408665.96 Y = 307367.68
TT, 804 X = 3409019.51 Y = 307721.23

800 Cont.
TT, 805 X = 3409373.06 Y = 308074.79
TT, 806 X = 3409726.62 Y = 308428.34
TT, 807 X = 3410080.17 Y = 308781.89
TT, 808 X = 3410433.72 Y = 309135.45
UU, 805 X = 3409726.62 Y = 307721.23
UU, 806 X = 3410080.17 Y = 308074.79
UU, 807 X = 3410433.72 Y = 308428.34
UU, 808 X = 3410787.28 Y = 308781.89
UU, 809 X = 3411140.83 Y = 309135.45
VV, 809 X = 3411494.38 Y = 308781.89

STATE OF LOUISIANA
JERRY S. CARROLL
REG. No. 24418
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING
1-17-08

REV.	DATE	DESCRIPTION	BY

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

DRAWN BY: SHANE FAUST
DESIGNED BY: JERRY CARROLL, P.E.

NORTH LAKE MECHANT LANDBRIDGE RESTORATION PROJECT

STATE PROJECT NUMBER: TE-44

FEDERAL PROJECT NUMBER:

APPROVED BY: LUKE LE BAS, P.E.

GRADE STAKE COORDINATES

DATE: JANUARY 2008

SHEET 6 OF 65

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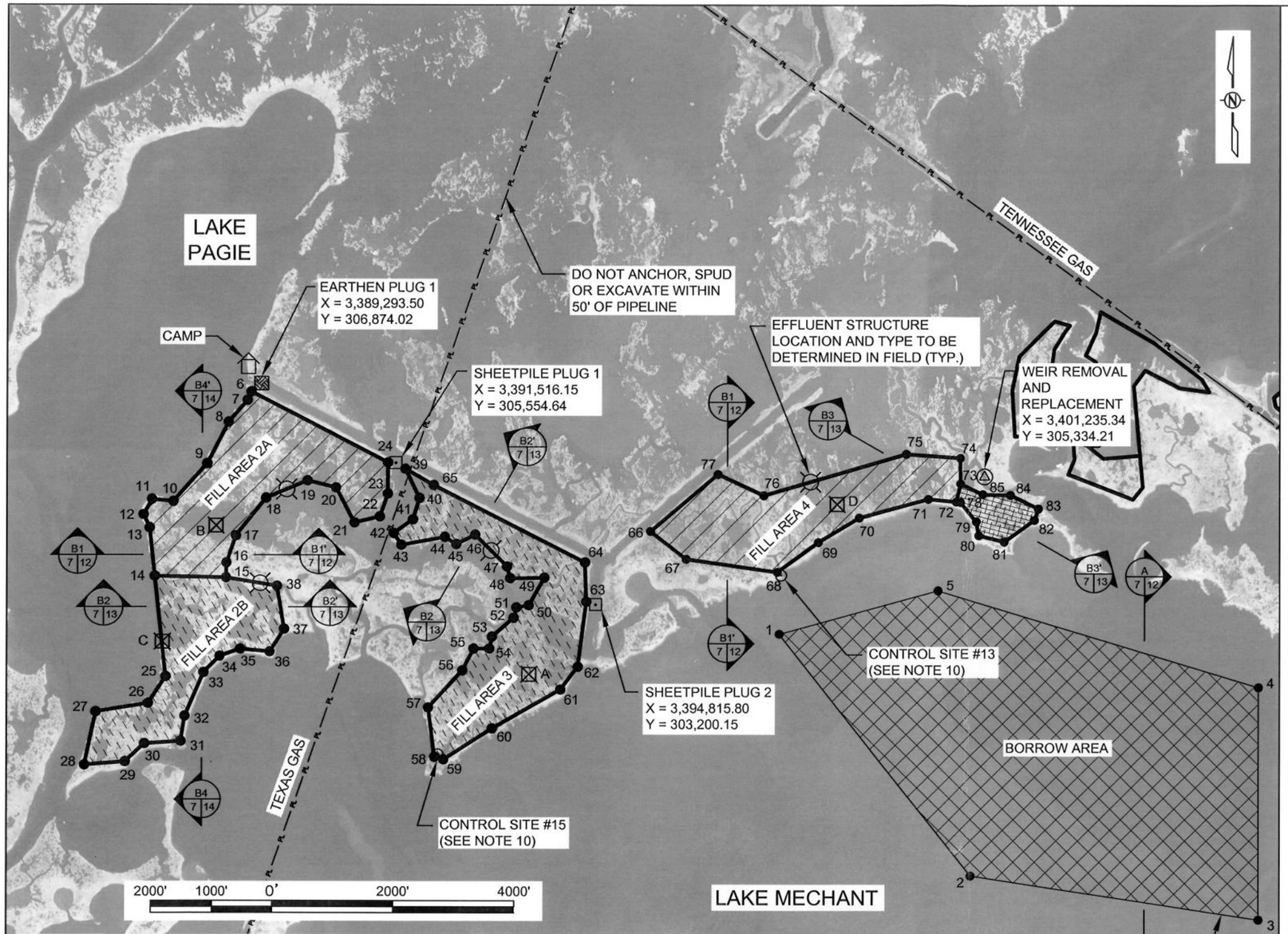

BORROW AREA		
PT.	NORTHING	EASTING
1	302,713.79	3,397,843.66
2	298,694.64	3,401,009.55
3	297,968.60	3,405,758.38
4	301,831.94	3,405,758.38
5	303,439.84	3,400,464.61

FILL AREA 3		
PT.	NORTHING	EASTING
39	305,455.86	3,391,672.39
40	304,970.69	3,391,907.52
41	304,615.80	3,391,797.96
42	304,387.56	3,391,480.90
43	304,195.01	3,391,608.94
44	304,324.47	3,392,327.26
45	304,206.86	3,392,517.03
46	304,362.38	3,392,830.77
47	303,836.70	3,393,355.49
48	303,640.89	3,393,408.32
49	303,649.70	3,393,969.46
50	303,192.32	3,393,713.30
51	303,155.33	3,393,509.83
52	302,984.48	3,393,465.22
53	302,670.23	3,393,108.59
54	302,472.11	3,393,065.83
55	302,471.32	3,392,805.59
56	302,111.14	3,392,620.81
57	301,492.22	3,392,056.19
58	300,671.29	3,392,159.61
59	300,630.33	3,392,310.21
60	301,145.93	3,393,109.73
61	301,792.87	3,394,234.57
62	302,171.56	3,394,522.84
63	303,249.81	3,394,661.11
64	303,904.31	3,394,637.82
65	305,187.58	3,392,141.41

SETTLEMENT PLATE COORDINATES		
PT.	NORTHING	EASTING
A	308,992.50	3,390,409.39
B	304,514.34	3,388,542.91
C	302,585.08	3,387,665.49
D	304,873.12	3,398,801.84

FILL AREA 2A		
PT.	NORTHING	EASTING
6	306,737.15	3,389,123.09
7	306,596.56	3,389,063.32
8	306,234.00	3,388,749.31
9	305,544.03	3,388,392.01
10	304,915.11	3,387,839.80
11	304,950.45	3,387,490.08
12	304,696.51	3,387,353.63
13	304,477.60	3,387,453.40
14	303,673.95	3,387,539.56
15	303,649.94	3,388,710.04
16	303,897.45	3,388,716.39
17	304,345.41	3,388,874.39
18	304,974.18	3,389,371.72
19	305,260.07	3,390,055.04
20	305,142.28	3,390,527.15
21	304,563.39	3,390,834.25
22	304,663.64	3,391,252.60
23	305,044.86	3,391,384.21
24	305,562.06	3,391,385.30

FILL AREA 4		
PT.	NORTHING	EASTING
66	304,419.83	3,395,716.05
67	303,958.03	3,396,303.45
68	303,743.61	3,397,807.95
69	304,238.75	3,398,487.02
70	304,646.01	3,399,166.35
71	304,957.80	3,400,302.69
72	304,915.59	3,400,762.53
73	305,214.11	3,400,835.56
74	305,642.39	3,400,831.50
75	305,706.15	3,399,942.67
76	305,015.67	3,397,583.49
77	305,367.82	3,396,826.50

FILL AREA 2B		
PT.	NORTHING	EASTING
14	303,673.95	3,387,539.56
25	302,007.57	3,387,718.20
26	301,562.26	3,387,430.05
27	301,421.42	3,386,585.11
28	300,538.01	3,386,398.24
29	300,592.46	3,387,060.21
30	300,892.37	3,387,371.81
31	300,932.49	3,387,965.66
32	301,350.88	3,388,030.82
33	302,075.05	3,388,338.50
34	302,346.54	3,388,603.25
35	302,465.75	3,388,948.99
36	302,418.71	3,389,434.20
37	302,796.20	3,389,672.06
38	303,510.01	3,389,553.10
15	303,649.94	3,388,710.04

**FILL AREA 4		
PT.	NORTHING	EASTING
72	304,915.59	3,400,762.53
78	304,909.04	3,400,833.91
79	304,586.66	3,401,097.84
80	304,355.48	3,401,140.20
81	304,248.77	3,401,558.33
82	304,610.04	3,402,057.22
83	304,799.15	3,402,122.97
84	305,025.91	3,401,661.97
85	305,038.54	3,401,204.33
73	305,214.11	3,400,835.56

**MARSH NOURISHMENT

STATE OF LOUISIANA
JERRY S. CARROLL
REG. No. 24418
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING
1-17-08

NOTES:

1. CONTRACTOR TO NOTIFY PIPELINE COMPANIES A MINIMUM OF 5 WORKING DAYS IN ADVANCE OF ANY CONSTRUCTION.
2. SEE TS-8.6 OF THE SPECIFICATIONS FOR DEWATERING DETAILS.
3. CONTRACTOR IS TO MAINTAIN CONTAINMENT DIKES TO ELEVATIONS SHOWN IN APPROPRIATE SECTION VIEWS FOR THE DURATION OF CONSTRUCTION.
4. SEE SHEET 30 FOR WARNING SIGN DETAILS.
5. SEE SHEET 20 FOR EARTHEN PLUG 1 DETAILS.
6. SEE SHEET 23 FOR SHEETPILE PLUG 1 DETAILS.
7. SEE SHEET 24 FOR SHEETPILE PLUG 2 DETAILS
8. SEE SHEET 27-29 FOR WEIR REMOVAL AND REPLACEMENT DETAILS.
9. SEE SHEETS 30 & 31 FOR SETTLEMENT PLATE DETAILS.
10. CONTRACTOR WILL BE ALLOWED TO PLACE TEMPORARY SHEETING AT THE DESIGNATED CONTROL SITE LOCATIONS TO ASSIST IN CONSTRUCTION AND MAINTENANCE OF THE EARTHEN CONTAINMENT DIKE. ALL TEMPORARY SHEETING AND THE LOCATIONS FOR PLACEMENT THEREOF SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION AND SHALL BE CAREFULLY REMOVED UPON PROJECT COMPLETION. SEE SHEET 65 FOR SECTIONS OF THE DESIGNATED CONTROL SITE LOCATIONS.

LEGEND

- FILL AREA (MAX. EL. 3.0')
- FILL AREA (MAX. EL. 2.5')
- BORROW AREA
- MARSH NOURISHMENT
- EARTHEN PLUG
- WEIR
- SHEETPILE PLUG
- SETTLEMENT PLATE
- EXISTING CAMP
- CONTAINMENT DIKE
- PL — PIPELINE
- EFFLUENT STRUCTURE

REV.	DATE	DESCRIPTION	BY

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

DRAWN BY: SHANE FAUST
DESIGNED BY: JERRY CARROLL, P.E.

NORTH LAKE MECHANT LANDBRIDGE RESTORATION PROJECT

STATE PROJECT NUMBER: TE-44
FEDERAL PROJECT NUMBER: N/A
APPROVED BY: LUKE LE BAS, P.E.

PROJECT AREA (WEST)

DATE: JANUARY 2008
SHEET 7 OF 65

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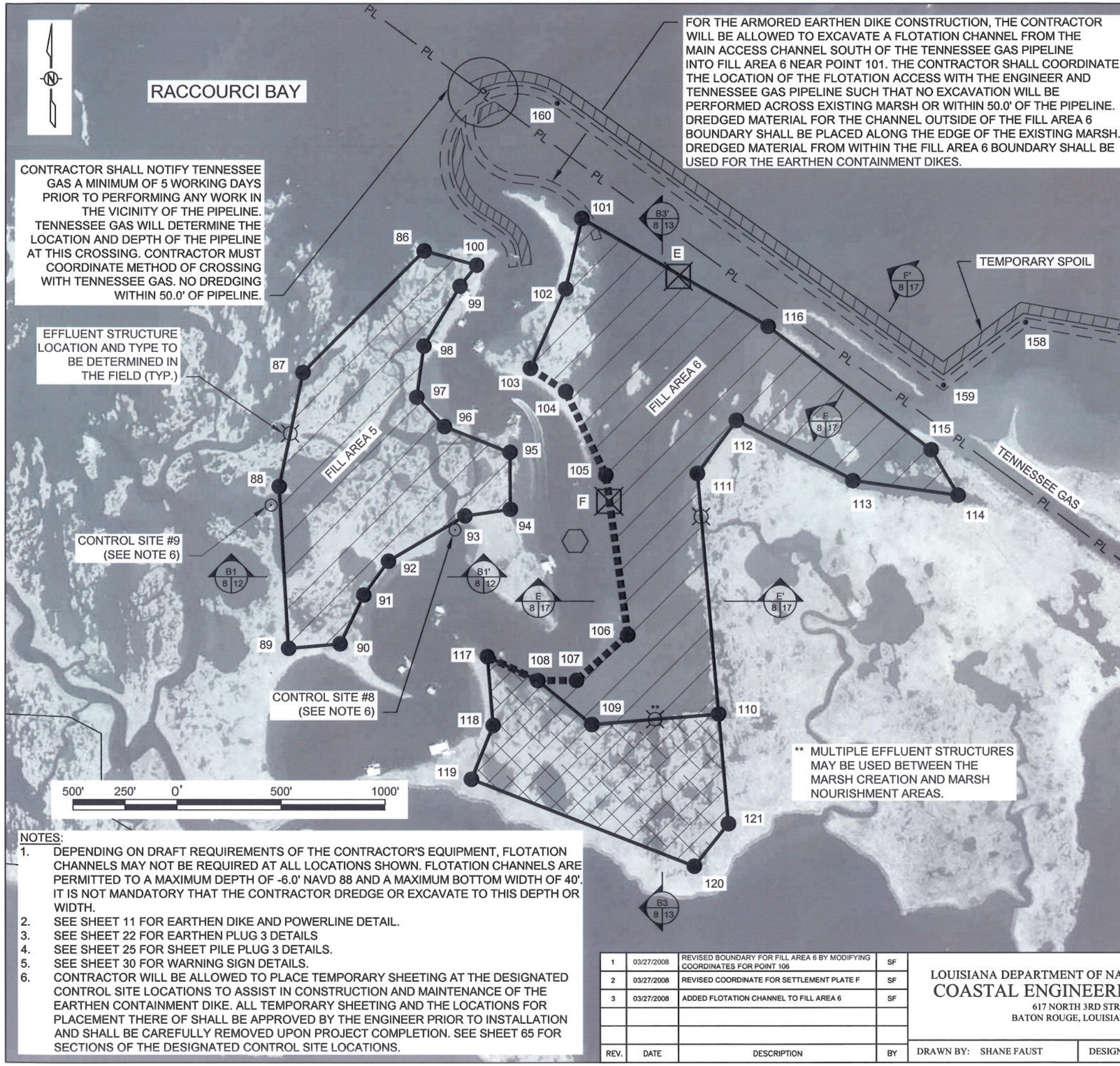


FILL AREA 5		
PT.	NORTHING	EASTING
86	307,915.30	3,402,385.21
87	307,329.50	3,401,803.03
88	306,780.62	3,401,688.91
89	306,002.96	3,401,733.97
90	306,024.66	3,401,981.85
91	306,258.71	3,402,095.11
92	306,421.74	3,402,214.05
93	306,639.14	3,402,582.40
94	306,671.18	3,402,799.13
95	306,942.90	3,402,798.22
96	307,069.13	3,402,483.61
97	307,210.11	3,402,350.38
98	307,456.69	3,402,384.08
99	307,745.16	3,402,558.35
100	307,846.44	3,402,638.55

FILL AREA 6		
PT.	NORTHING	EASTING
101	308,071.37	3,403,142.27
102	307,731.70	3,403,064.64
103	307,349.30	3,402,895.10
104	307,237.74	3,403,064.52
105	306,834.33	3,403,256.16
106	306,066.17	3,403,361.63
107	305,847.96	3,403,116.08
108	305,847.34	3,402,931.10
109	305,636.08	3,403,189.37
110	305,686.52	3,403,795.39
111	306,842.87	3,403,694.23
112	307,098.05	3,403,880.11
113	306,808.03	3,404,445.75
114	306,737.99	3,404,939.85
115	306,956.75	3,404,811.66
116	307,551.11	3,404,031.70

**FILL AREA 6		
PT.	NORTHING	EASTING
108	305,847.34	3,402,931.10
117	305,962.70	3,402,689.98
118	305,632.48	3,402,717.63
119	305,373.53	3,402,613.17
120	304,954.86	3,403,679.34
121	305,159.46	3,403,841.51
110	305,686.52	3,403,795.39
109	305,636.08	3,403,189.37

**MARSH NOURISHMENT

SETTLEMENT PLATE COORDINATES		
PT.	NORTHING	EASTING
E	307,791.97	3,403,603.39
F	306,709.05	3,403,273.36
G	308,036.91	3,409,592.50

FLOTATION ACCESS CHANNEL		
PT.	NORTHING	EASTING
158	307,570.33	3,405,262.53
159	307,267.26	3,404,870.42
160	308,626.90	3,403,023.46

STATE OF LOUISIANA
JERRY S. CARROLL
REG. No. 24418
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING
3-27-08

LEGEND

- FILL AREA (MAX. EL. 3.0')
- FILL AREA (MAX. EL. 2.5')
- TEMPORARY SPOIL
- PERMANENT SPOIL
- MARSH NOURISHMENT
- EARTHEN PLUG
- SHEETPILE PLUG
- WARNING SIGN
- SETTLEMENT PLATE
- EFFLUENT STRUCTURE
- CONTROL SITE
- PL — PIPELINE
- FLOTATION ACCESS CHANNEL
- ARMORED EARTHEN DIKE
- CONTAINMENT DIKE

NOTES:

1. DEPENDING ON DRAFT REQUIREMENTS OF THE CONTRACTOR'S EQUIPMENT, FLOTATION CHANNELS MAY NOT BE REQUIRED AT ALL LOCATIONS SHOWN. FLOTATION CHANNELS ARE PERMITTED TO A MAXIMUM DEPTH OF -6.0' NAVD 88 AND A MAXIMUM BOTTOM WIDTH OF 40'. IT IS NOT MANDATORY THAT THE CONTRACTOR DREDGE OR EXCAVATE TO THIS DEPTH OR WIDTH.
2. SEE SHEET 11 FOR EARTHEN DIKE AND POWERLINE DETAIL.
3. SEE SHEET 22 FOR EARTHEN PLUG 3 DETAILS
4. SEE SHEET 25 FOR SHEET PILE PLUG 3 DETAILS.
5. SEE SHEET 30 FOR WARNING SIGN DETAILS.
6. CONTRACTOR WILL BE ALLOWED TO PLACE TEMPORARY SHEETING AT THE DESIGNATED CONTROL SITE LOCATIONS TO ASSIST IN CONSTRUCTION AND MAINTENANCE OF THE EARTHEN CONTAINMENT DIKE. ALL TEMPORARY SHEETING AND THE LOCATIONS FOR PLACEMENT THERE OF SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION AND SHALL BE CAREFULLY REMOVED UPON PROJECT COMPLETION. SEE SHEET 65 FOR SECTIONS OF THE DESIGNATED CONTROL SITE LOCATIONS.

REV.	DATE	DESCRIPTION	BY
1	03/27/2008	REVISED BOUNDARY FOR FILL AREA 6 BY MODIFYING COORDINATES FOR POINT 106	SF
2	03/27/2008	REVISED COORDINATE FOR SETTLEMENT PLATE F	SF
3	03/27/2008	ADDED FLOTATION CHANNEL TO FILL AREA 6	SF

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

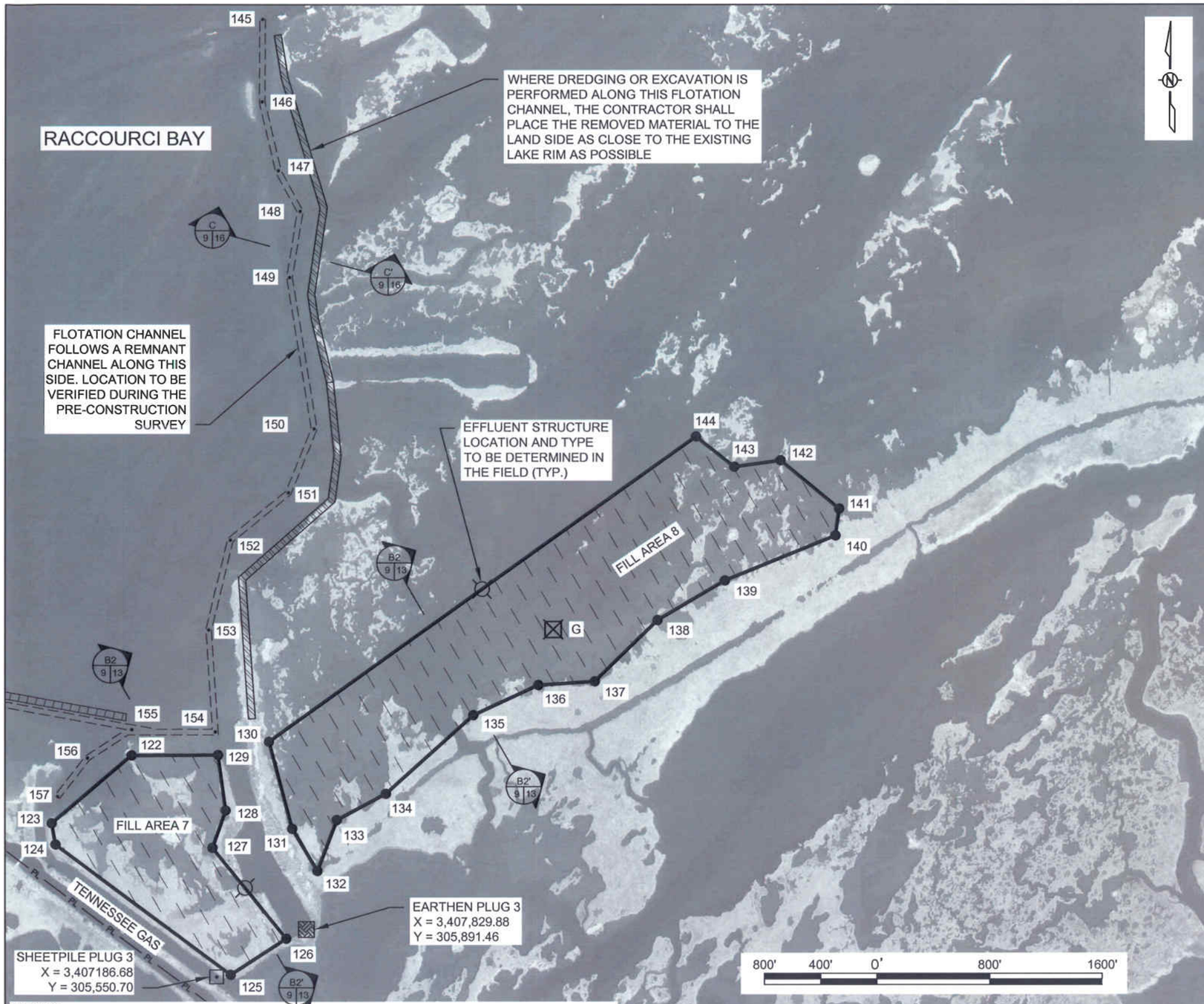
DRAWN BY: SHANE FAUST
DESIGNED BY: JERRY CARROLL, P.E.

NORTH LAKE MECHANT LANDBRIDGE RESTORATION PROJECT

STATE PROJECT NUMBER: TE-44
FEDERAL PROJECT NUMBER: N/A
APPROVED BY: LUKE LE BAS, P.E.

PROJECT AREA (MIDDLE)

DATE: JANUARY 2008



FILL AREA 7		
PT.	NORTHING	EASTING
122	307,136.54	3,406,578.48
123	306,650.72	3,406,007.52
124	306,499.29	3,406,034.59
125	305,567.21	3,407,287.53
126	305,826.18	3,407,685.80
127	306,474.87	3,407,156.93
128	306,742.89	3,407,250.71
129	307,138.68	3,407,197.12

CHANNEL CENTER		
PT.	NORTHING	EASTING
145	312,410.00	3,407,515.00
146	311,818.00	3,407,512.00
147	311,323.00	3,407,629.00
148	311,031.00	3,407,786.00
149	310,557.00	3,407,710.00
150	309,472.00	3,407,886.00
151	309,015.00	3,407,702.00
152	308,676.00	3,407,285.00
153	308,033.00	3,407,130.00
154	307,303.81	3,407,181.68
155	307,320.68	3,406,580.01
156	307,117.36	3,406,263.14
157	306,841.25	3,406,049.39

FILL AREA 8		
PT.	NORTHING	EASTING
130	307,233.88	3,407,561.43
131	306,611.20	3,407,728.21
132	306,309.80	3,407,908.92
133	306,673.93	3,408,046.61
134	306,862.03	3,408,397.32
135	307,423.83	3,409,021.08
136	307,638.61	3,409,485.85
137	307,665.28	3,409,887.56
138	308,103.24	3,410,333.83
139	308,385.76	3,410,811.63
140	308,706.76	3,411,598.14
141	308,898.78	3,411,624.00
142	309,245.80	3,411,208.58
143	309,200.17	3,410,877.76
144	309,416.39	3,410,607.06

SETTLEMENT PLATE COORDINATES		
PT.	NORTHING	EASTING
E	307,791.97	3,403,603.39
F	306,709.05	3,403,262.07
G	308,036.91	3,409,592.50

STATE OF LOUISIANA
JERRY S. CARROLL
REG. No. 24418
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING
3-27-08

LEGEND

- FILL AREA (MAX. EL. 3.0')
- FILL AREA (MAX. EL. 2.5')
- TEMPORARY SPOIL
- PERMANENT SPOIL
- MARSH NOURISHMENT
- EARTHEN PLUG
- SHEETPILE PLUG
- WARNING SIGN
- SETTLEMENT PLATE
- EFFLUENT STRUCTURE
- PL — PIPELINE
- FLOTATION ACCESS CHANNEL
- ARMORED EARTHEN DIKE
- CONTAINMENT DIKE

NOTES:

1. DEPENDING ON DRAFT REQUIREMENTS OF THE CONTRACTOR'S EQUIPMENT, FLOTATION CHANNELS MAY NOT BE REQUIRED AT ALL LOCATIONS SHOWN. FLOTATION CHANNELS ARE PERMITTED TO A MAXIMUM DEPTH OF -6.0' NAVD 88 AND A MAXIMUM BOTTOM WIDTH OF 40'. IT IS NOT MANDATORY THAT THE CONTRACTOR DREDGE OR EXCAVATE TO THIS DEPTH OR WIDTH.
2. SEE SHEET 22 FOR EARTHEN PLUG 3 DETAILS
3. SEE SHEET 25 FOR SHEET PILE PLUG 3 DETAILS.
4. SEE SHEET 30 FOR WARNING SIGN DETAILS.

REV.	DATE	DESCRIPTION	BY
1	03/27/2008	LABELED AND PROVIDED COORDINATES FOR SHEETPILE PLUG 3	SF
2	03/27/2008	REVISED NOTE FOR PLACEMENT OF ACCESS CHANNEL DREDGED MATERIAL.	SF

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

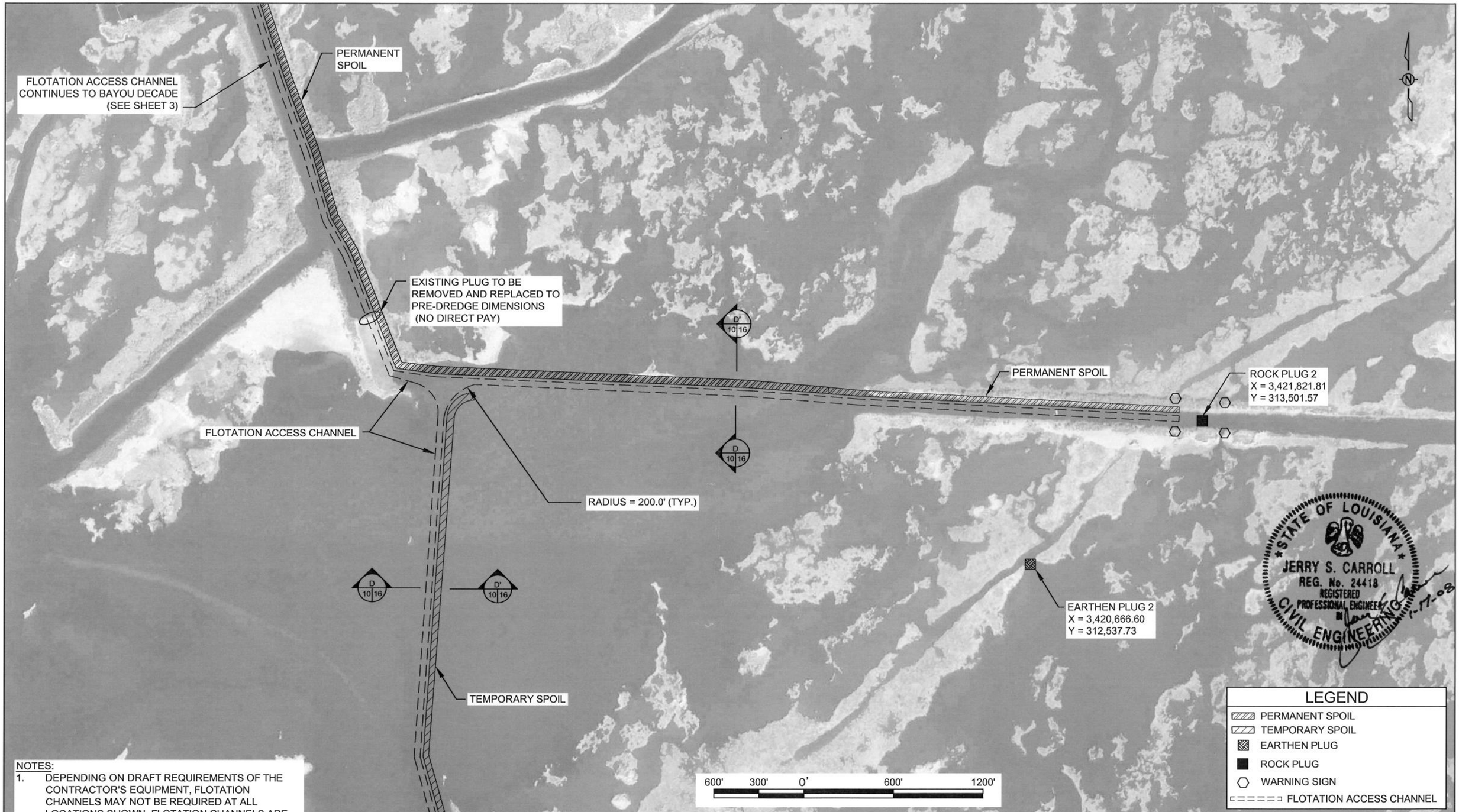
DRAWN BY: SHANE FAUST
DESIGNED BY: JERRY CARROLL, P.E.

NORTH LAKE MECHANT LANDBRIDGE RESTORATION PROJECT

STATE PROJECT NUMBER: TE-44
FEDERAL PROJECT NUMBER: N/A
APPROVED BY: LUKE LE BAS, P.E.

PROJECT AREA (MIDDLE)

DATE: JANUARY 2008
SHEET 9 OF 65



STATE OF LOUISIANA
JERRY S. CARROLL
REG. No. 24418
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING
1-17-08

NOTES:

1. DEPENDING ON DRAFT REQUIREMENTS OF THE CONTRACTOR'S EQUIPMENT, FLOTATION CHANNELS MAY NOT BE REQUIRED AT ALL LOCATIONS SHOWN. FLOTATION CHANNELS ARE PERMITTED TO A MAXIMUM DEPTH OF -6.0' NAVD 88 AND A MAXIMUM WIDTH OF 40.0'. IT IS NOT MANDATORY THAT THE CONTRACTOR DREDGE OR EXCAVATE TO THIS DEPTH OR WIDTH.
2. SEE SHEET 18 FOR ROCK PLUG 1 DETAILS
3. SEE SHEET 19 FOR ROCK PLUG 2 DETAILS.
4. SEE SHEET 21 FOR EARTHEN PLUG 2 DETAILS.

REV.	DATE	DESCRIPTION	BY

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

DRAWN BY: SHANE FAUST
DESIGNED BY: JERRY CARROLL, P.E.

NORTH LAKE MECHANT LANDBRIDGE RESTORATION PROJECT

STATE PROJECT NUMBER: TE-44
FEDERAL PROJECT NUMBER: N/A
APPROVED BY: LUKE LE BAS, P.E.

PROJECT AREA (EAST)

DATE: JANUARY 2008
SHEET 10 OF 65

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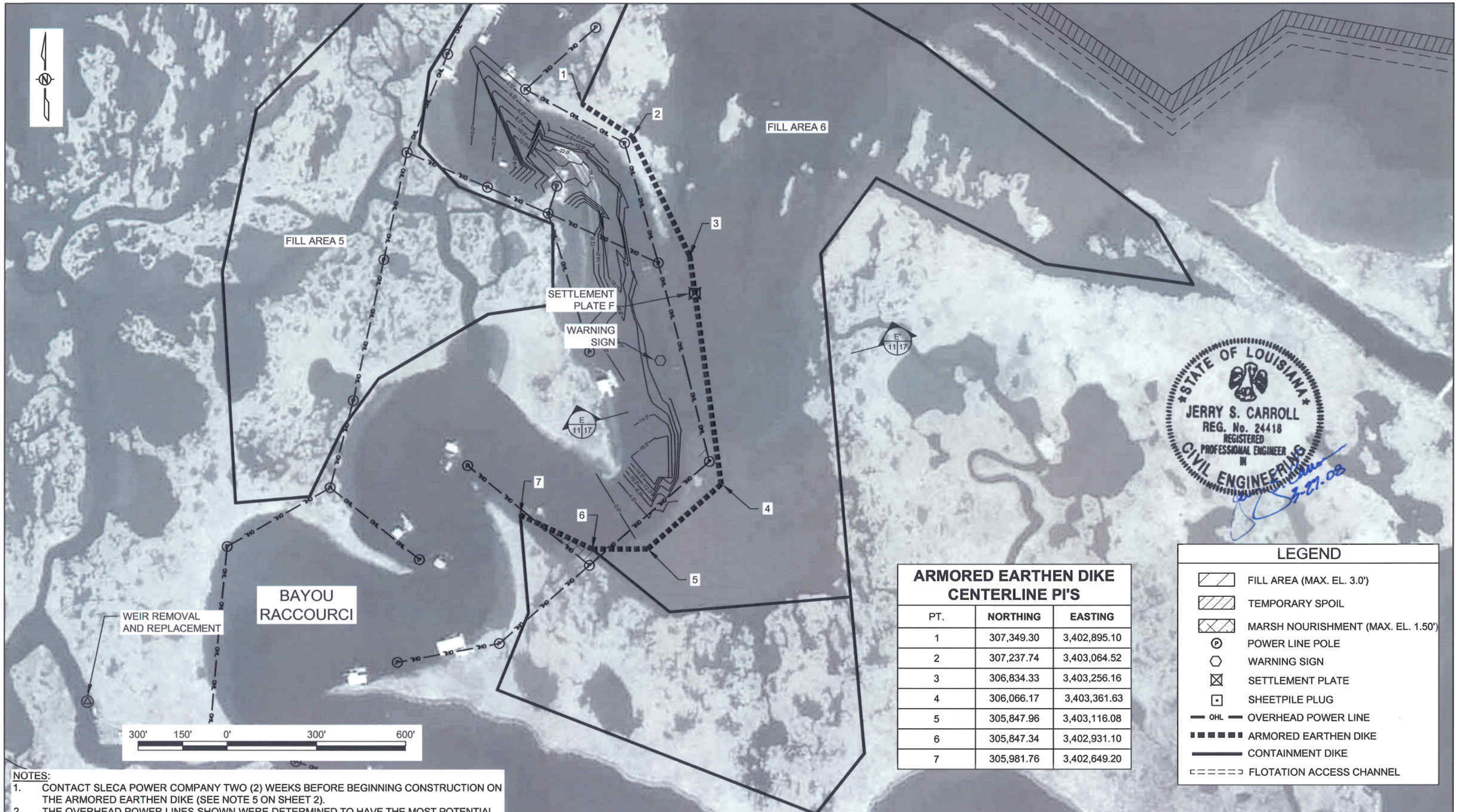


ARMORED EARTHEN DIKE CENTERLINE PI'S

PT.	NORTHING	EASTING
1	307,349.30	3,402,895.10
2	307,237.74	3,403,064.52
3	306,834.33	3,403,256.16
4	306,066.17	3,403,361.63
5	305,847.96	3,403,116.08
6	305,847.34	3,402,931.10
7	305,981.76	3,402,649.20

LEGEND

- FILL AREA (MAX. EL. 3.0')
- TEMPORARY SPOIL
- MARSH NOURISHMENT (MAX. EL. 1.50')
- POWER LINE POLE
- WARNING SIGN
- SETTLEMENT PLATE
- SHEETPILE PLUG
- OHL — OVERHEAD POWER LINE
- ARMORED EARTHEN DIKE
- CONTAINMENT DIKE
- FLOTATION ACCESS CHANNEL

NOTES:

1. CONTACT SLECA POWER COMPANY TWO (2) WEEKS BEFORE BEGINNING CONSTRUCTION ON THE ARMORED EARTHEN DIKE (SEE NOTE 5 ON SHEET 2).
2. THE OVERHEAD POWER LINES SHOWN WERE DETERMINED TO HAVE THE MOST POTENTIAL TO IMPACT CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH SLECA TO DETERMINE IF OTHER LINES IN THE VICINITY OF BAYOU RACOURCCI MAY CONFLICT WITH ACCESS OF CONSTRUCTION EQUIPMENT OR OTHER CONSTRUCTION ACTIVITIES.
3. NO DREDGING WILL BE ALLOWED WITHIN 50 FEET OF ANY POWER LINE POLE.
4. THE ARMORED EARTHEN DIKE CORE SHALL BE CONSTRUCTED OF IN-SITU MATERIAL IN A MINIMUM OF 2 LIFTS BEFORE BEING ARMORED.

REV.	DATE	DESCRIPTION	BY
1	03/27/2008	REVISED COORDINATES OF CENTERLINE P.I. POINT 4	SF

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

DRAWN BY: SHANE FAUST
DESIGNED BY: JERRY CARROLL, P.E.

NORTH LAKE MECHANT LANDBRIDGE RESTORATION PROJECT

STATE PROJECT NUMBER: TE-44

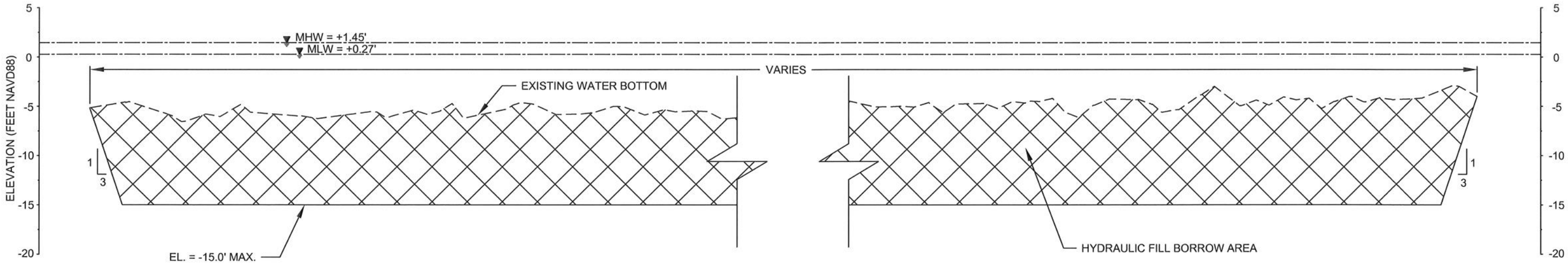
FEDERAL PROJECT NUMBER: N/A

APPROVED BY: LUKE LE BAS, P.E.

ARMORED EARTHEN DIKE AND POWERLINE DETAIL

DATE: JANUARY 2008

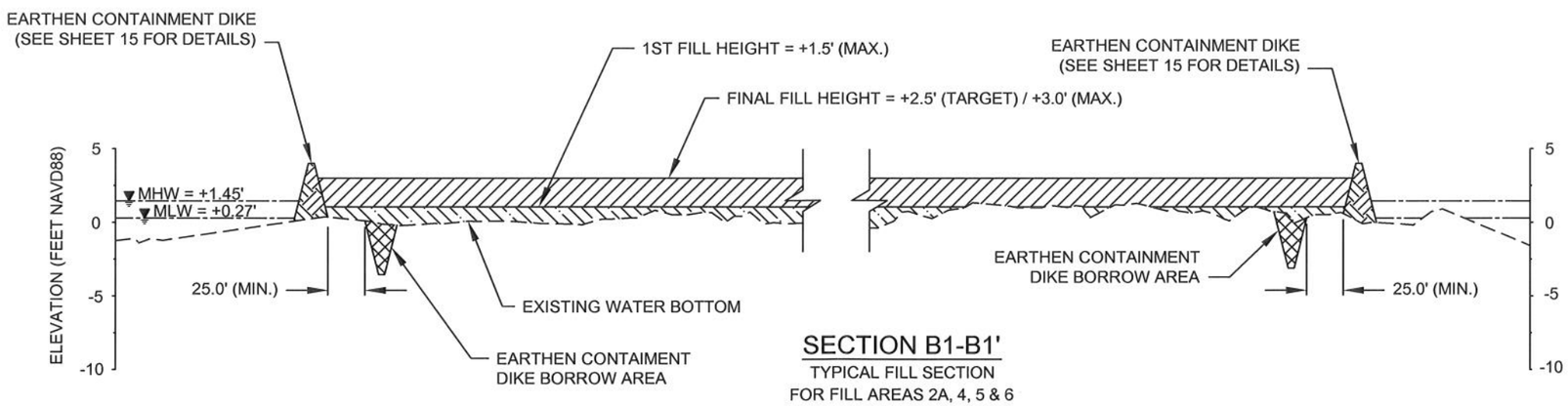
SHEET 11 OF 65



SECTION A-A'

TYPICAL BORROW SECTION
(SEE SHEET 7)

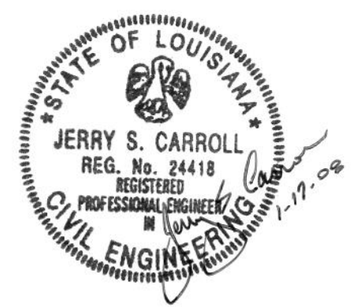
HORIZONTAL GRAPHIC SCALE
100' 50' 0 100' 200'
10' 5' 0 10' 20'
VERTICAL GRAPHIC SCALE



SECTION B1-B1'

TYPICAL FILL SECTION
FOR FILL AREAS 2A, 4, 5 & 6

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



NOTES:

1. IN MARSH CREATION AREAS, HYDRAULIC FILL SHALL BE PLACED USING A MINIMUM OF TWO LIFTS. HYDRAULIC FILL FOR MARSH NOURISHMENT AREAS SHALL BE PLACED USING ONE LIFT.
2. REFER TO TS-8 OF THE SPECIFICATIONS FOR DREDGING PLACEMENT AND PAYMENT DETAILS.
3. CONTRACTOR SHALL SUBMIT A DREDGE DISPOSAL PLAN PRIOR TO CONSTRUCTION IN ACCORDANCE WITH TS-8.4 OF THE SPECIFICATIONS. THE PLAN SHALL INCLUDE A TIMELINE OF ALL DREDGING OPERATIONS.

REV.	DATE	DESCRIPTION	BY

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

DRAWN BY: SHANE FAUST
DESIGNED BY: JERRY CARROLL, P.E.

NORTH LAKE MECHANT LANDBRIDGE RESTORATION PROJECT

STATE PROJECT NUMBER: TE-44
FEDERAL PROJECT NUMBER: N/A
APPROVED BY: LUKE LE BAS, P.E.

BORROW AND FILL AREA SECTION VIEWS

DATE: JANUARY 2008
SHEET 12 OF 65

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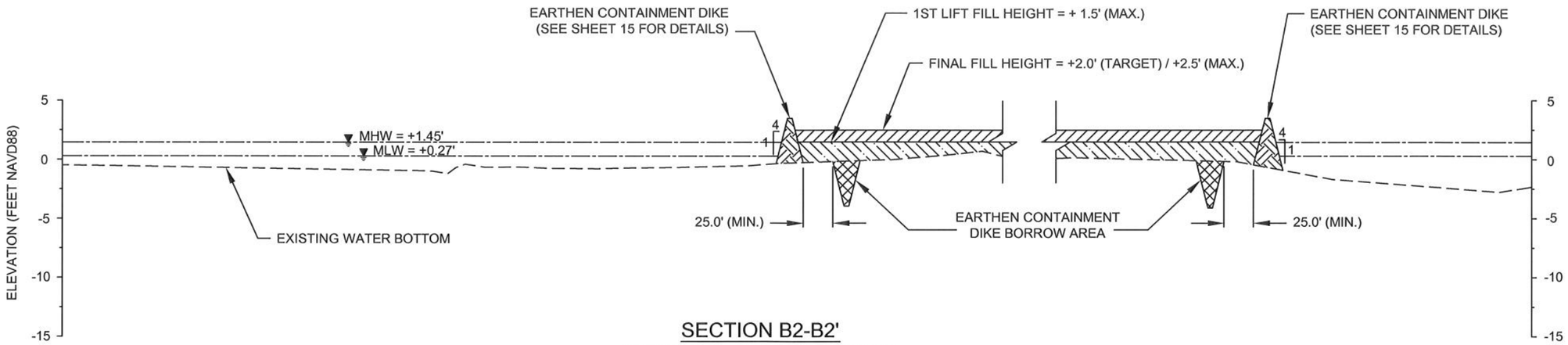
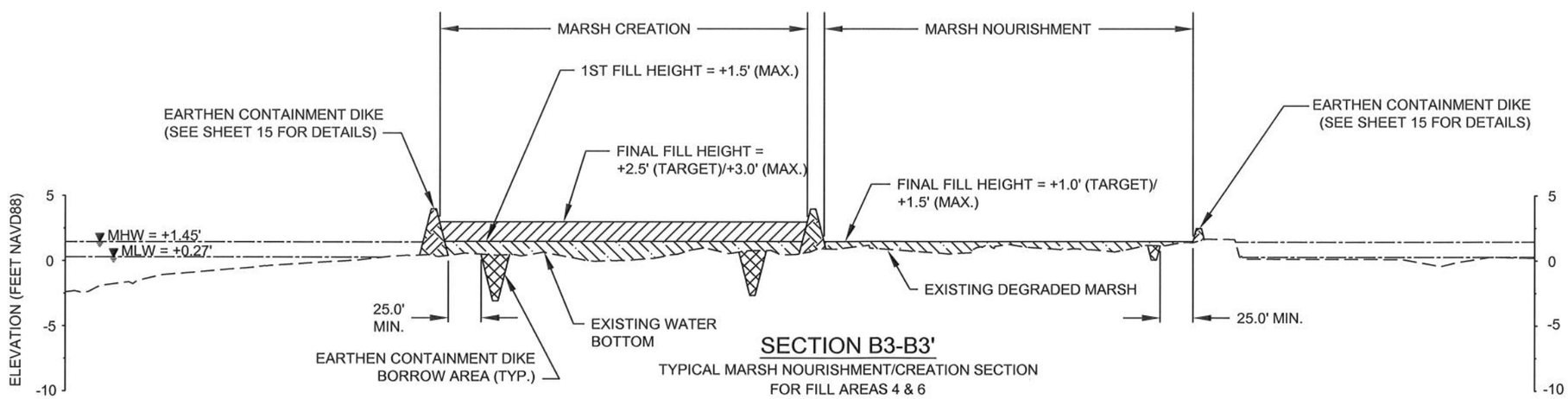


SECTION B2-B2'

TYPICAL MARSH CREATION FILL SECTION
FOR FILL AREAS 2B, 3, 7 & 8

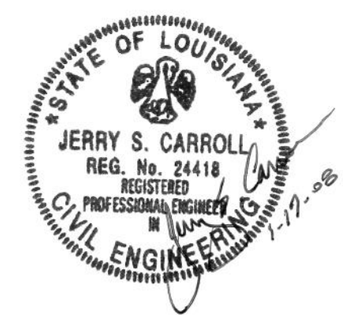
HORIZONTAL GRAPHIC SCALE
100' 50' 0 100' 200'
10' 5' 0 10' 20'
VERTICAL GRAPHIC SCALE



SECTION B3-B3'

TYPICAL MARSH NOURISHMENT/CREATION SECTION
FOR FILL AREAS 4 & 6

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



NOTES:

1. IN MARSH CREATION AREAS, HYDRAULIC FILL SHALL BE PLACED USING A MINIMUM OF TWO LIFTS. HYDRAULIC FILL FOR MARSH NOURISHMENT AREAS SHALL BE PLACED USING ONE LIFT.
2. REFER TO TS-8 OF THE SPECIFICATIONS FOR DREDGING PLACEMENT AND PAYMENT DETAILS.
3. CONTRACTOR SHALL SUBMIT A DREDGE DISPOSAL PLAN PRIOR TO CONSTRUCTION IN ACCORDANCE WITH TS-8.4 OF THE SPECIFICATIONS. THE PLAN SHALL INCLUDE A TIMELINE OF ALL DREDGING OPERATIONS.

REV.	DATE	DESCRIPTION	BY

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

DRAWN BY: SHANE FAUST
DESIGNED BY: JERRY CARROLL, P.E.

NORTH LAKE MECHANT LANDBRIDGE RESTORATION PROJECT

STATE PROJECT NUMBER: TE-44
FEDERAL PROJECT NUMBER: N/A
APPROVED BY: LUKE LE BAS, P.E.

BORROW AND FILL AREA SECTION VIEWS

DATE: JANUARY 2008
SHEET 13 OF 65

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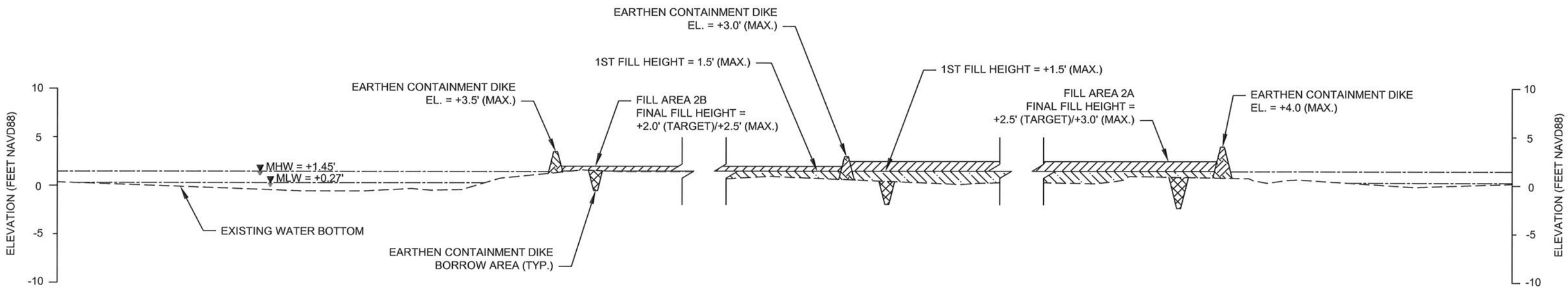

SECTION B4-B4'

TYPICAL MARSH CREATION FILL SECTION
FOR FILL AREAS 2A & 2B

HORIZONTAL GRAPHIC SCALE

100' 50' 0 100' 200'

10' 5' 0 10' 20'

VERTICAL GRAPHIC SCALE

STATE OF LOUISIANA
JERRY S. CARROLL
REG. No. 24418
REGISTERED
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
1-17-08

NOTES:

1. IN MARSH CREATION AREAS, HYDRAULIC FILL SHALL BE PLACED USING A MINIMUM OF TWO LIFTS. HYDRAULIC FILL FOR MARSH NOURISHMENT AREAS SHALL BE PLACED USING ONE LIFT.
2. REFER TO TS-8 OF THE SPECIFICATIONS FOR DREDGING PLACEMENT AND PAYMENT DETAILS.
3. CONTRACTOR SHALL SUBMIT A DREDGE DISPOSAL PLAN PRIOR TO CONSTRUCTION IN ACCORDANCE WITH TS-8.4 OF THE SPECIFICATIONS. THE PLAN SHALL INCLUDE A TIMELINE OF ALL DREDGING OPERATIONS.

REV.	DATE	DESCRIPTION	BY

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

DRAWN BY: SHANE FAUST
DESIGNED BY: JERRY CARROLL, P.E.

NORTH LAKE MECHANT LANDBRIDGE RESTORATION PROJECT

STATE PROJECT NUMBER: TE-44

FEDERAL PROJECT NUMBER: N/A

APPROVED BY: LUKE LE BAS, P.E.

BORROW AND FILL AREA SECTION VIEWS

DATE: JANUARY 2008

SHEET 14 OF 65

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MARSH CREATION CONTAINMENT DIKE HEIGHT

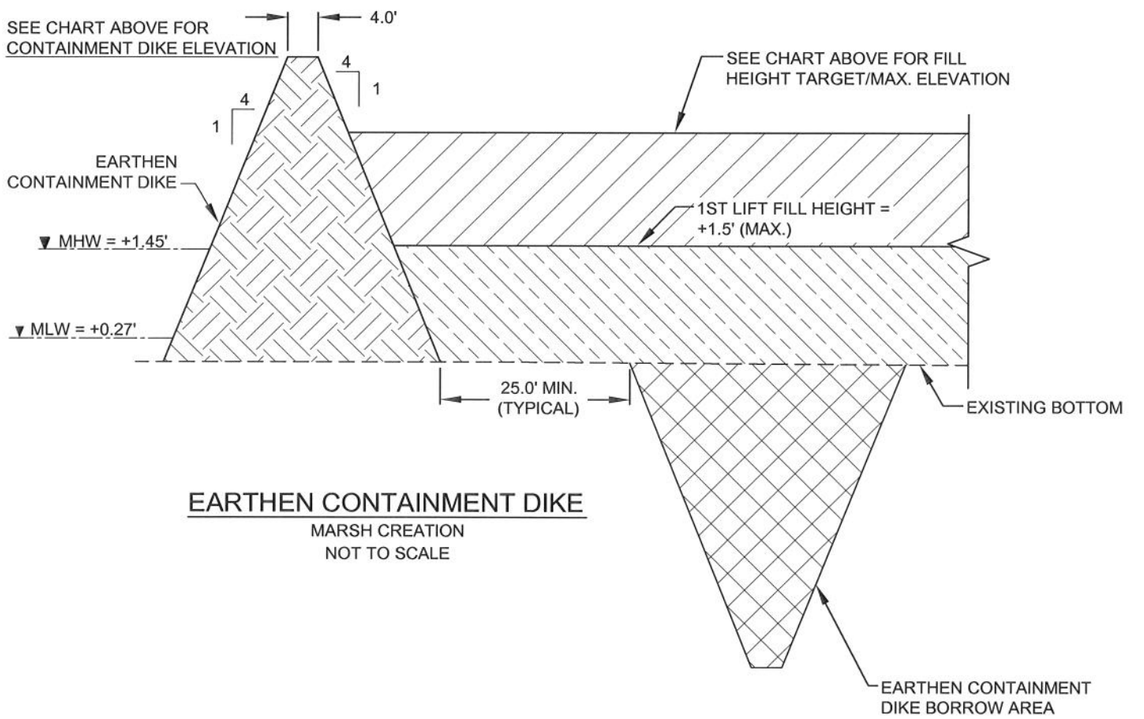
FILL AREA	ELEVATION
2A	4.0'
2B	3.5'
3	3.5'
4	4.0'
5	4.0'
6	4.0'
7	3.5'
8	3.5'

MARSH CREATION FILL HEIGHT

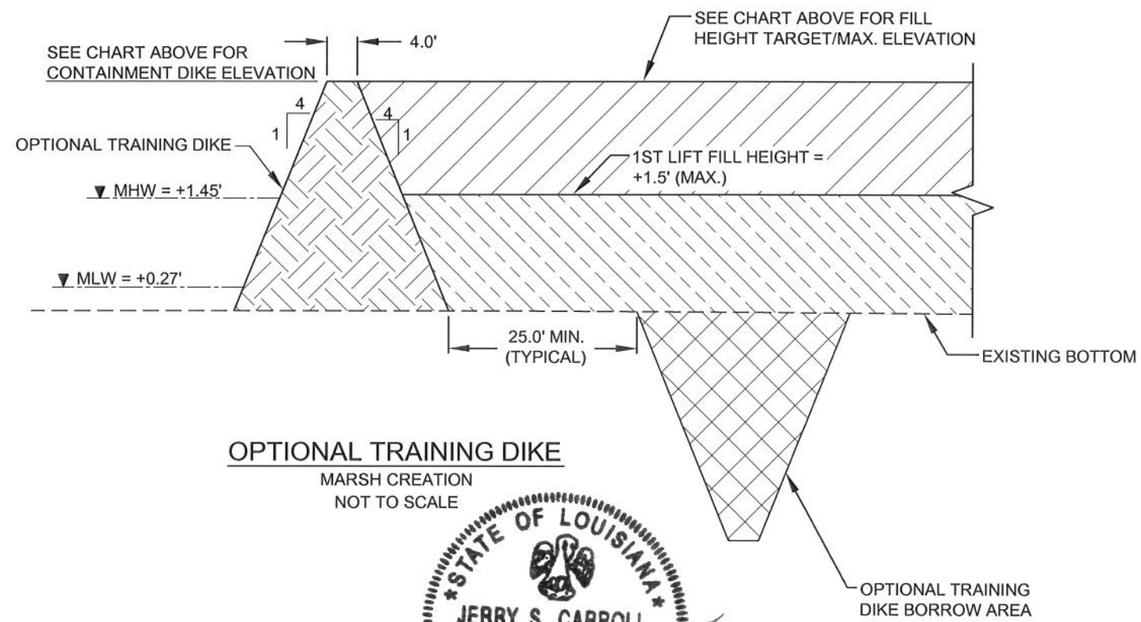
FILL AREA	TARGET ELEVATION/MAX.
2A	2.5'/3.0'
2B	2.0'/2.5'
3	2.0'/2.5'
4	2.5'/3.0'
5	2.5'/3.0'
6	2.5/3.0'
7	2.0'/2.5'
8	2.0'/2.5'

MARSH CREATION OPTIONAL CONTAINMENT DIKE HEIGHT

FILL AREA	ELEVATION
2A	3.0'
2B	2.5'
3	2.5'
4	3.0'
5	3.0'
6	3.0'
7	2.5'
8	2.5'



EARTHEN CONTAINMENT DIKE
MARSH CREATION
NOT TO SCALE



OPTIONAL TRAINING DIKE
MARSH CREATION
NOT TO SCALE

STATE OF LOUISIANA
JERRY S. CARROLL
REG. No. 24418
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING
1-17-08

NOTES:
1. SEE SHEETS 7 AND 8 FOR LOCATIONS OF FILL AREAS.
2. CONTRACTOR SHALL SUBMIT A DREDGE DISPOSAL PLAN PRIOR TO CONSTRUCTION IN ACCORDANCE WITH TS-8.4 OF THE SPECIFICATIONS. THE PLAN SHALL INCLUDE THE LOCATION OF ALL PROPOSED OPTIONAL TRAINING DIKES. NO EXISTING WETLAND VEGETATION SHALL BE DREDGED OR FILLED BY OPTIONAL TRAINING DIKE CONSTRUCTION UNLESS OTHERWISE APPROVED BY THE ENGINEER.
3. SEE SECTION TS-7 FOR OPTIONAL TRAINING DIKE SPECIFICATIONS.

REV.	DATE	DESCRIPTION	BY

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

DRAWN BY: KRISTI CANTU
DESIGNED BY: MITCH ANDRUS, P.E.

NORTH LAKE MECHANT LANDBRIDGE RESTORATION PROJECT
STATE PROJECT NUMBER: TE-44
FEDERAL PROJECT NUMBER: N/A
APPROVED BY: LUKE LEBAS, P.E.

MARSH CREATION SECTION VIEWS
DATE: JANUARY 2008
SHEET 15 OF 65

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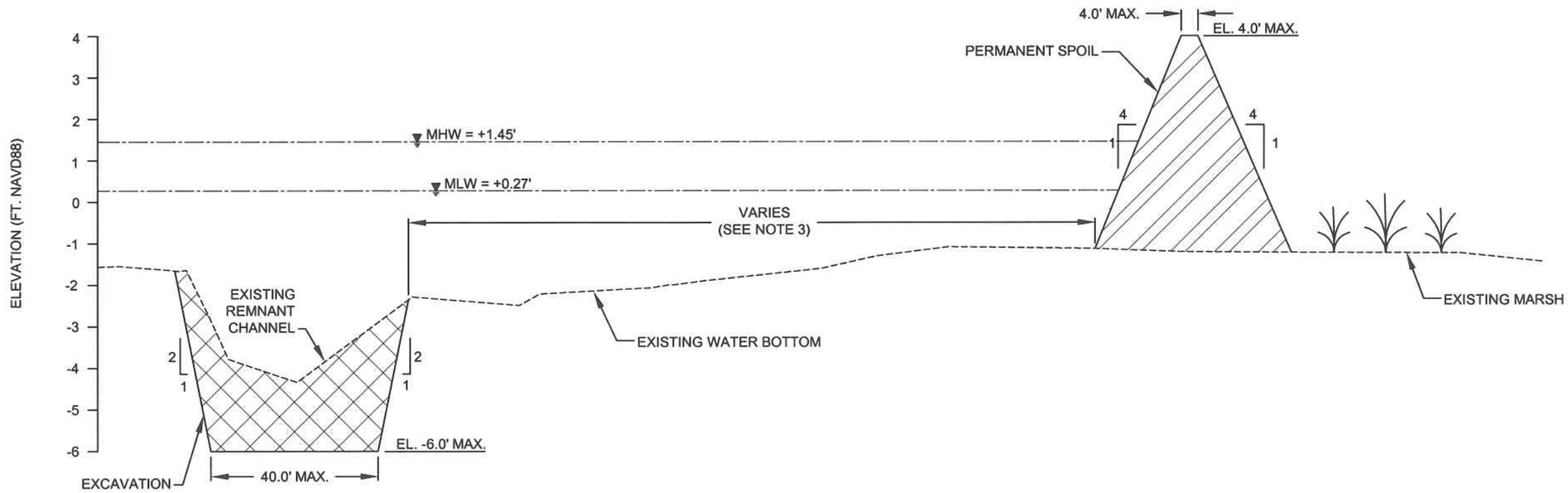
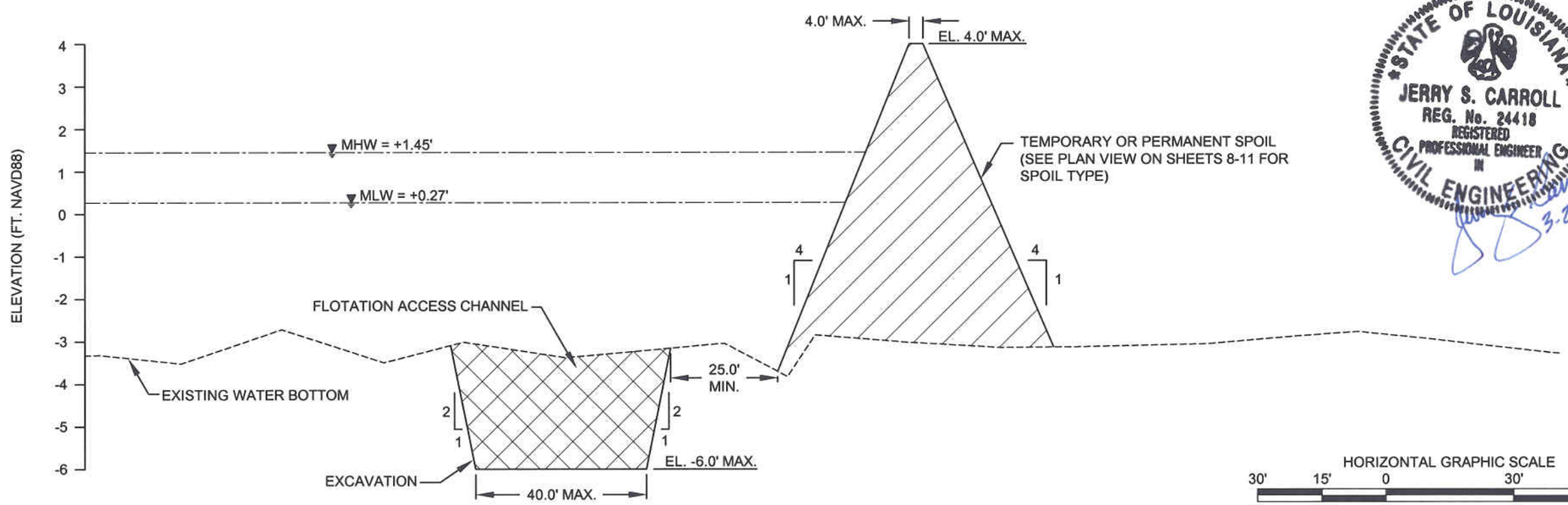
SECTION C-C'

FLOTATION ACCESS CHANNEL
(SEE SHEET 9)



SECTION D-D'

FLOTATION ACCESS CHANNEL
(SEE SHEET 10)



HORIZONTAL GRAPHIC SCALE
30' 15' 0 30' 60'
3' 1.5' 0 3' 6'
VERTICAL GRAPHIC SCALE

NOTES:

1. DEPENDING ON DRAFT REQUIREMENTS OF THE CONTRACTOR'S EQUIPMENT, FLOTATION CHANNELS MAY NOT BE REQUIRED AT ALL LOCATIONS SHOWN. FLOTATION CHANNELS ARE PERMITTED TO A MAXIMUM DEPTH OF -6.0' NAVD 88. IT IS NOT MANDATORY THAT THE CONTRACTOR DREDGE TO THIS DEPTH. THE CONTRACTOR SHALL DISPOSE OF FLOATATION SPOIL IN THE AREAS SHOWN ON THE PLANS. TEMPORARY SPOIL DISPOSAL SHALL BE PLACED INTO THE FLOTATION CHANNEL PRIOR TO DEMOBILIZATION IN ACCORDANCE WITH TS-9 OF THE SPECIFICATIONS.
2. FOR SECTION C-C' THE FLOTATION ACCESS CHANNEL FOLLOWS A REMNANT CHANNEL. DREDGED MATERIAL SHALL BE PLACED TO THE LAND SIDE AS CLOSE TO THE EXISTING LAKE RIM AS POSSIBLE.

REV.	DATE	DESCRIPTION	BY
1	03/27/2008	REVISED NOTE 2. DELETED NOTE 3. REVISED PLAN VIEW LOCATIONS FOR SECTION C-C' & D-D'.	SF

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

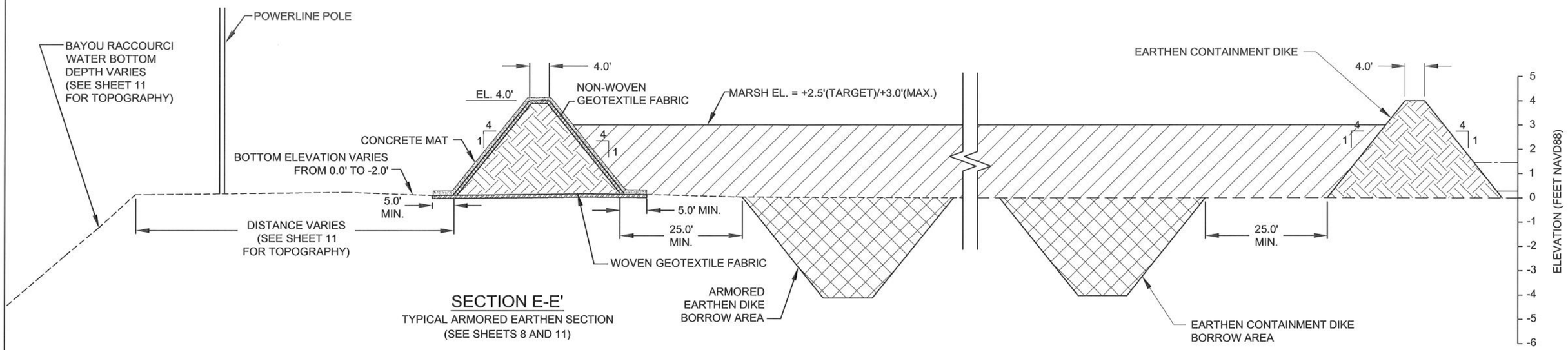
DRAWN BY: SHANE FAUST
DESIGNED BY: JERRY CARROLL, P.E.

NORTH LAKE MECHANT LANDBRIDGE RESTORATION PROJECT

STATE PROJECT NUMBER: TE-44
FEDERAL PROJECT NUMBER: N/A
APPROVED BY: LUKE LE BAS, P.E.

FLOTATION ACCESS CHANNEL SECTIONS

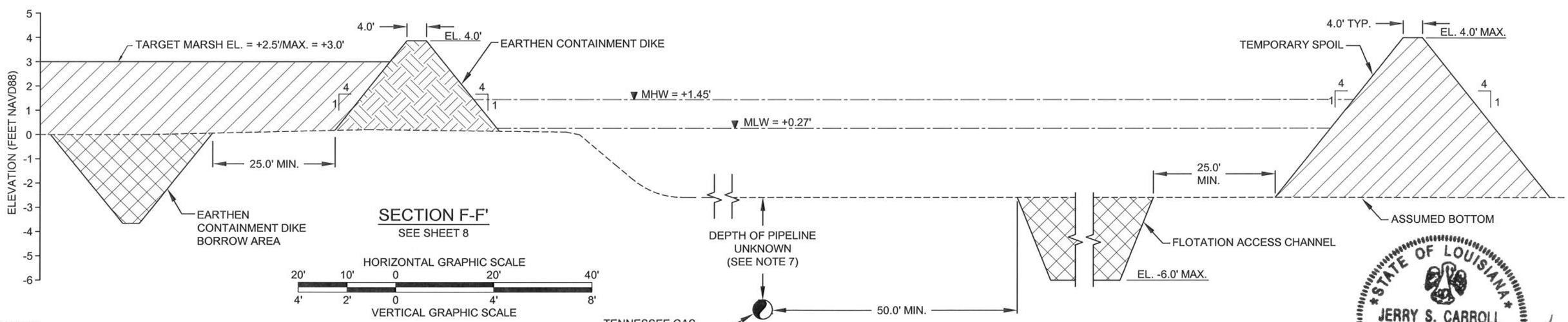
DATE: JANUARY 2008
SHEET 16 OF 65



SECTION E-E'

TYPICAL ARMORED EARTHEN SECTION
(SEE SHEETS 8 AND 11)

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



SECTION F-F'

SEE SHEET 8

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

NOTES:

1. TEMPORARY SPOIL SHALL BE BACK-FILLED INTO CHANNEL PRIOR TO DEMOBILIZATION IN ACCORDANCE WITH TS-9 OF THE SPECIFICATIONS.
2. FOR THE CONSTRUCTION OF THE ARMORED EARTHEN DIKE, WOVEN GEOTEXTILE FABRIC SHALL BE PLACED PRIOR TO CONSTRUCTION OF IN-SITU EARTHEN DIKE.
3. CORE OF ARMORED EARTHEN DIKE TO BE CONSTRUCTED OF IN-SITU EARTHEN MATERIAL IN A MINIMUM OF 2 LIFTS. ELEVATION OF THE EARTHEN DIKE MUST BE APPROVED BY THE ENGINEER OR INSPECTOR PRIOR TO PLACEMENT OF NON-WOVEN GEOTEXTILE AND CONCRETE MATS IN ACCORDANCE WITH TS-6 OF THE SPECIFICATIONS.
4. NON-WOVEN GEOTEXTILE TO BE PLACED OVER IN-SITU EARTHEN DIKE PRIOR TO CONCRETE MAT PLACEMENT.
5. SEE TS-11 AND TS-12 FOR WOVEN GEOTEXTILE AND NON-WOVEN GEOTEXTILE SPECIFICATIONS. SEE SHEET 31 FOR CONCRETE MAT DETAILS.
6. SEE SHEET 11 FOR POWER LINE AND POLE LOCATIONS AND RESTRICTIONS.
7. PIPELINE LOCATION AND DEPTH WILL BE DETERMINED AND MARKED BY TENNESSEE GAS. NO DREDGING WILL BE ALLOWED WITHIN 50.0' OF PIPELINE.

STATE OF LOUISIANA
JERRY S. CARROLL
REG. No. 24418
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING
1-17-08

REV.	DATE	DESCRIPTION	BY

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

NORTH LAKE MECHANT LANDBRIDGE RESTORATION PROJECT

STATE PROJECT NUMBER: TE-44

FEDERAL PROJECT NUMBER: N/A

ARMORED EARTHEN DIKE

DATE: JANUARY 2008

DRAWN BY: SHANE FAUST | DESIGNED BY: JERRY CARROLL, P.E. | APPROVED BY: LUKE LE BAS, P.E.

SHEET 17 OF 65

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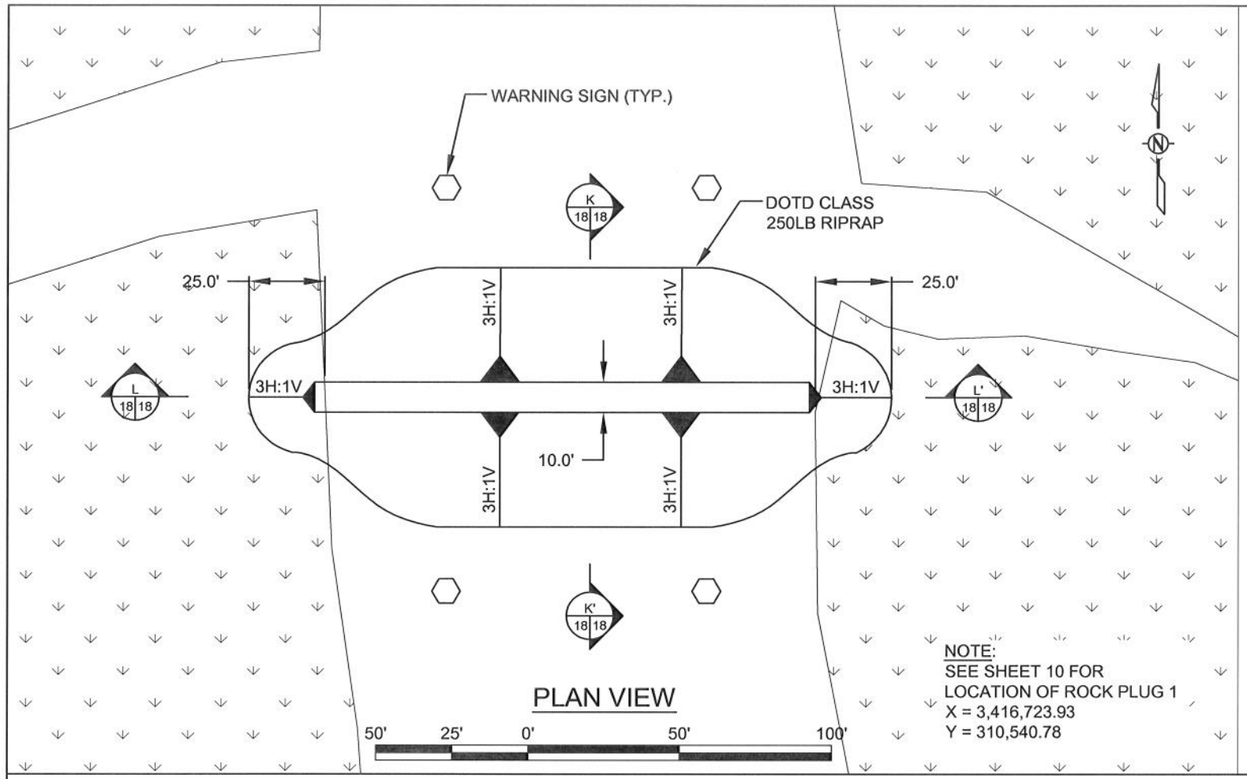
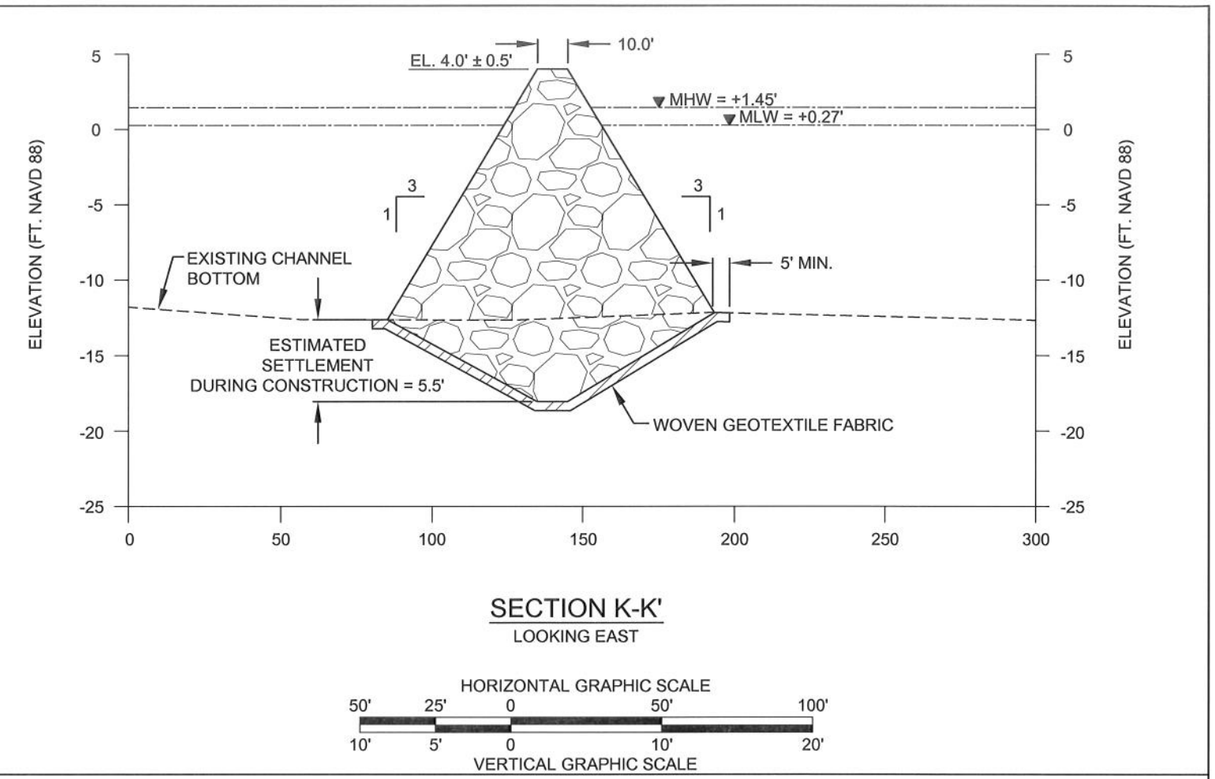
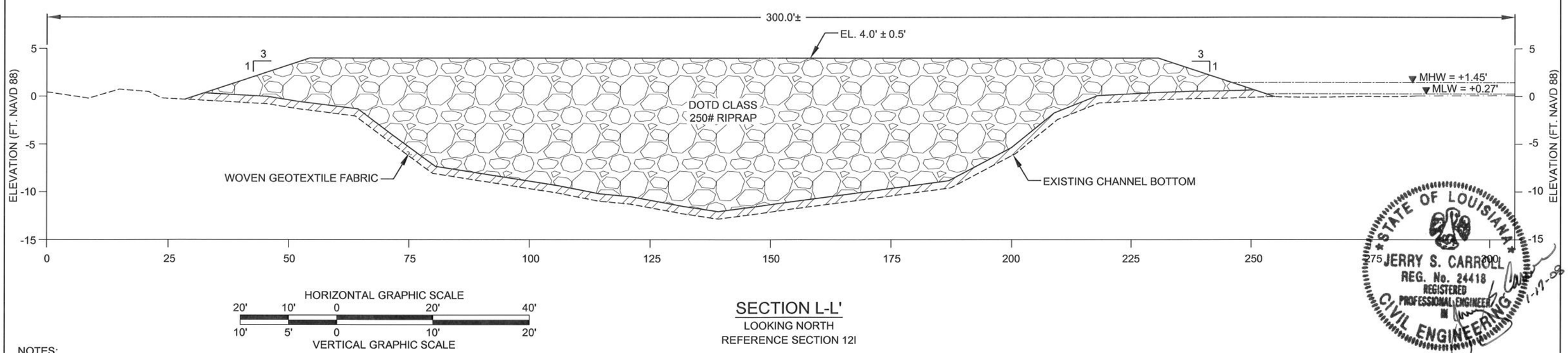


PLAN VIEW

NOTE:
SEE SHEET 10 FOR
LOCATION OF ROCK PLUG 1
X = 3,416,723.93
Y = 310,540.78



SECTION K-K'
LOOKING EAST



SECTION L-L'
LOOKING NORTH
REFERENCE SECTION 12I

STATE OF LOUISIANA
JERRY S. CARROLL
REG. No. 24418
REGISTERED
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
1-17-08

NOTES:
1. ROCK QUANTITY = 9,000 TONS
2. WOVEN GEOTEXTILE FABRIC AREA = 4,000 SQ. YARDS.
3. SEE SHEET 30 FOR WOVEN GEOTEXTILE LAYOUT AND TS-11 OF THE SPECIFICATIONS FOR PHYSICAL REQUIREMENTS.
4. THE ROCK PLUG SHALL BE CONSTRUCTED IN LIFTS. THE HEIGHT OF EACH LIFT SHALL NOT EXCEED FIVE FEET.
5. ACTUAL LOCATIONS OF THE WARNING SIGNS SHALL BE DETERMINED BY DNR FIELD ENGINEER.

REV.	DATE	DESCRIPTION	BY

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

DRAWN BY: SHANE FAUST
DESIGNED BY: JERRY CARROLL, P.E.

NORTH LAKE MECHANT LANDBRIDGE RESTORATION PROJECT

STATE PROJECT NUMBER: TE-44
FEDERAL PROJECT NUMBER: N/A
APPROVED BY: LUKE LE BAS, P.E.

ROCK PLUG 1
DETAILS

DATE: JANUARY 2008
SHEET 18 OF 65

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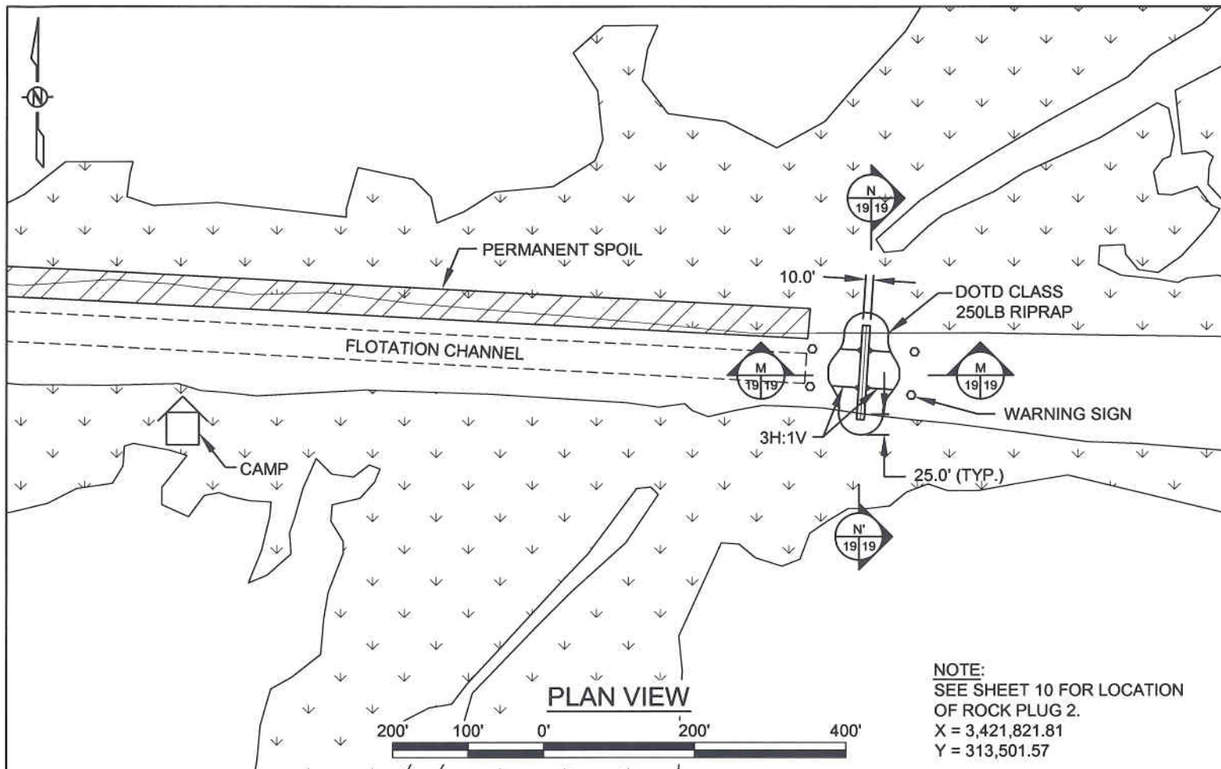
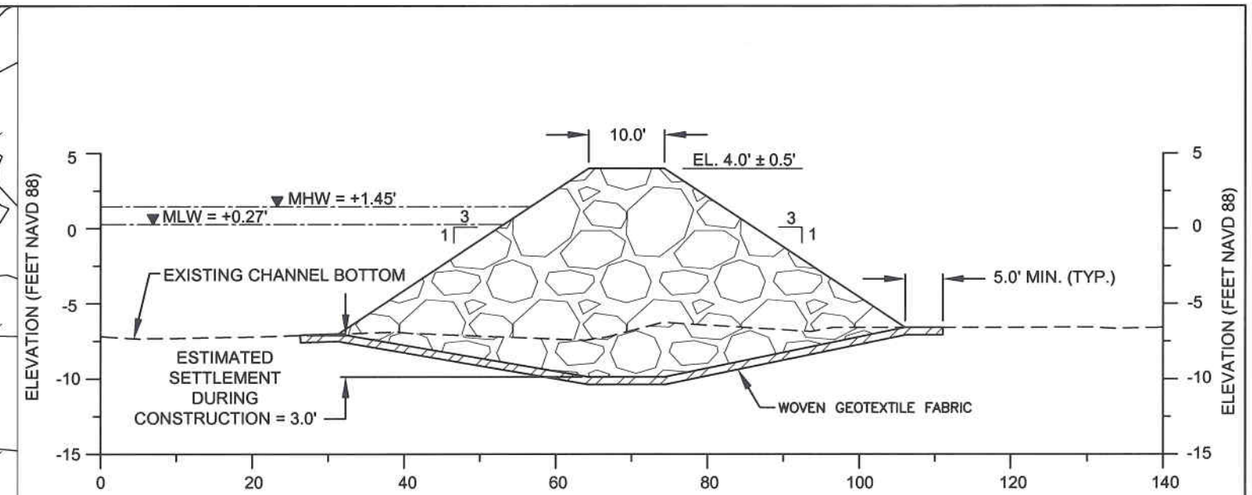


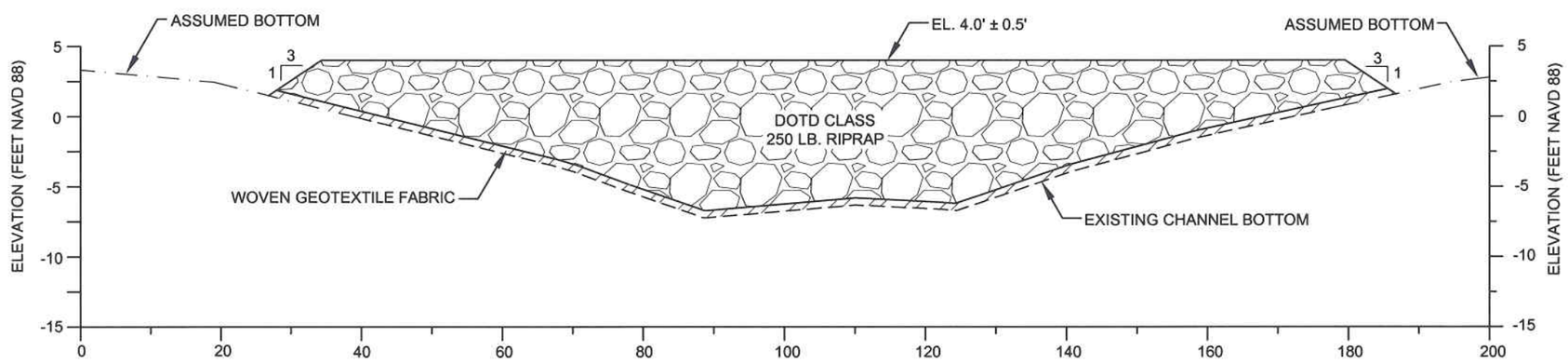
PLAN VIEW

NOTE:
SEE SHEET 10 FOR LOCATION OF ROCK PLUG 2.
X = 3,421,821.81
Y = 313,501.57



SECTION M-M'
LOOKING NORTH

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



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

SECTION N-N'
LOOKING EAST
REFERENCE SECTION 26D

STATE OF LOUISIANA
JERRY S. CARROLL
REG. No. 24418
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING
3-27-08

NOTES:
1. ROCK QUANTITY = 3,000 TONS.
2. WOVEN GEOTEXTILE AREA = 2,250 SQ. YARDS.
3. SEE SHEET 30 FOR WOVEN GEOTEXTILE LAYOUT AND TS-11 OF THE SPECIFICATIONS FOR PHYSICAL REQUIREMENTS.
4. THE ROCK PLUG SHALL BE CONSTRUCTED IN LIFTS. THE HEIGHT OF EACH LIFT SHALL NOT EXCEED FIVE FEET.
5. ACTUAL LOCATIONS OF THE WARNING SIGNS SHALL BE DETERMINED BY THE LDNR FIELD ENGINEER.

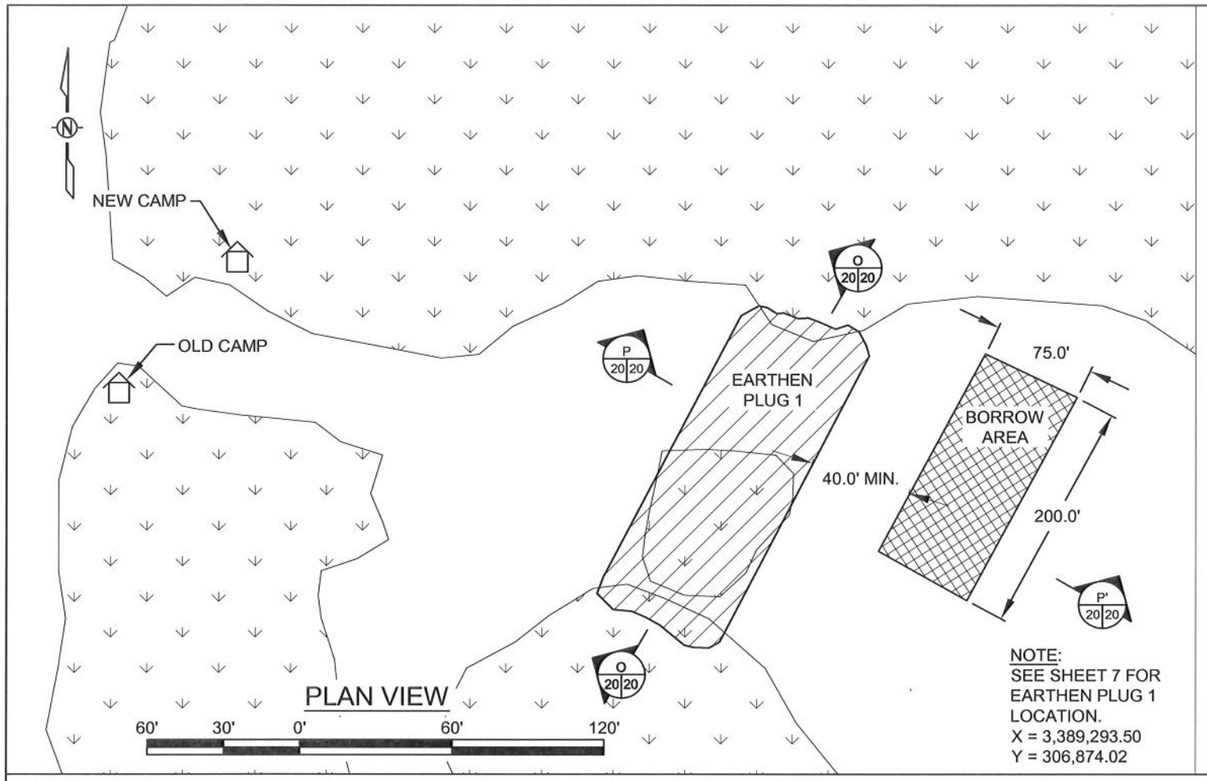
REV.	DATE	DESCRIPTION	BY
1	03/27/2008	REVISED QUANTITY IN NOTE 1	SF

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

DRAWN BY: SHANE FAUST
DESIGNED BY: JERRY CARROLL, P.E.

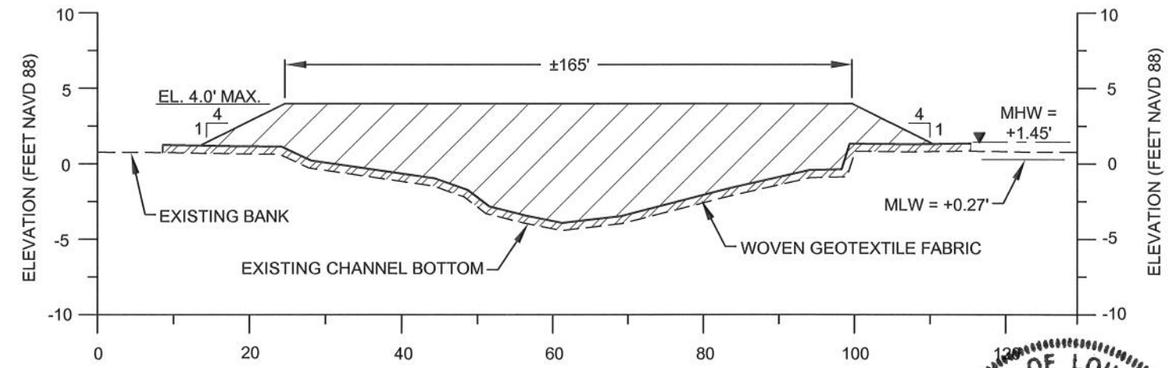
NORTH LAKE MECHANT LANDBRIDGE RESTORATION PROJECT
STATE PROJECT NUMBER: TE-44
FEDERAL PROJECT NUMBER: N/A
APPROVED BY: LUKE LE BAS, P.E.

ROCK PLUG 2 DETAILS
DATE: JANUARY 2008
SHEET 19 OF 65



PLAN VIEW

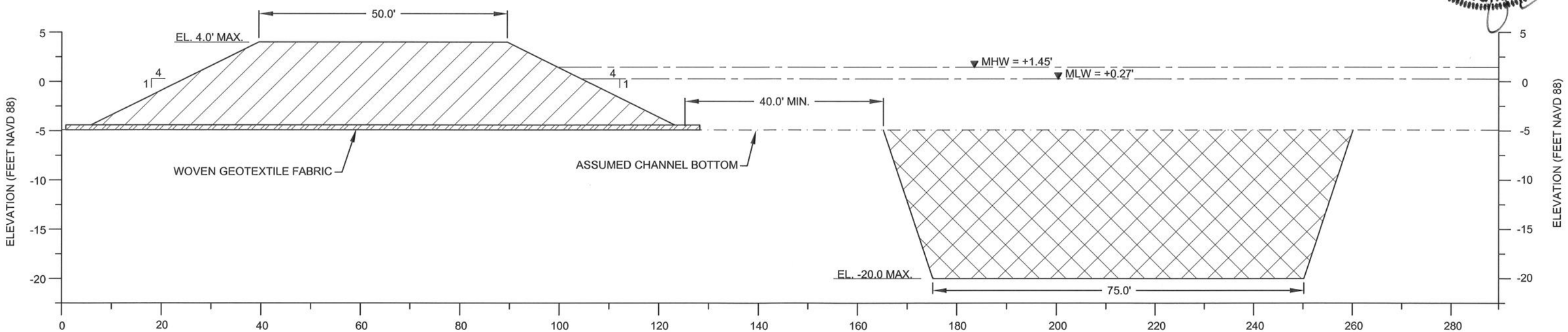
NOTE:
SEE SHEET 7 FOR EARTHEN PLUG 1 LOCATION.
X = 3,389,293.50
Y = 306,874.02



SECTION O-O'
LOOKING WEST

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

STATE OF LOUISIANA
JERRY S. CARROLL
REG. No. 24418
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING
1-17-08



SECTION P-P'
LOOKING NORTH

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

NOTES:
1. FILL VOLUME = 3,300 CU. YARDS.
2. WOVEN GEOTEXTILE AREA = 2,900 SQ. YARDS.
3. EARTHEN PLUGS SHALL BE CONSTRUCTED USING A MINIMUM OF 2 LIFTS.
4. SEE SHEET 30 FOR WOVEN GEOTEXTILE LAYOUT AND TS-11 OF THE SPECIFICATIONS FOR PHYSICAL REQUIREMENTS.

REV.	DATE	DESCRIPTION	BY

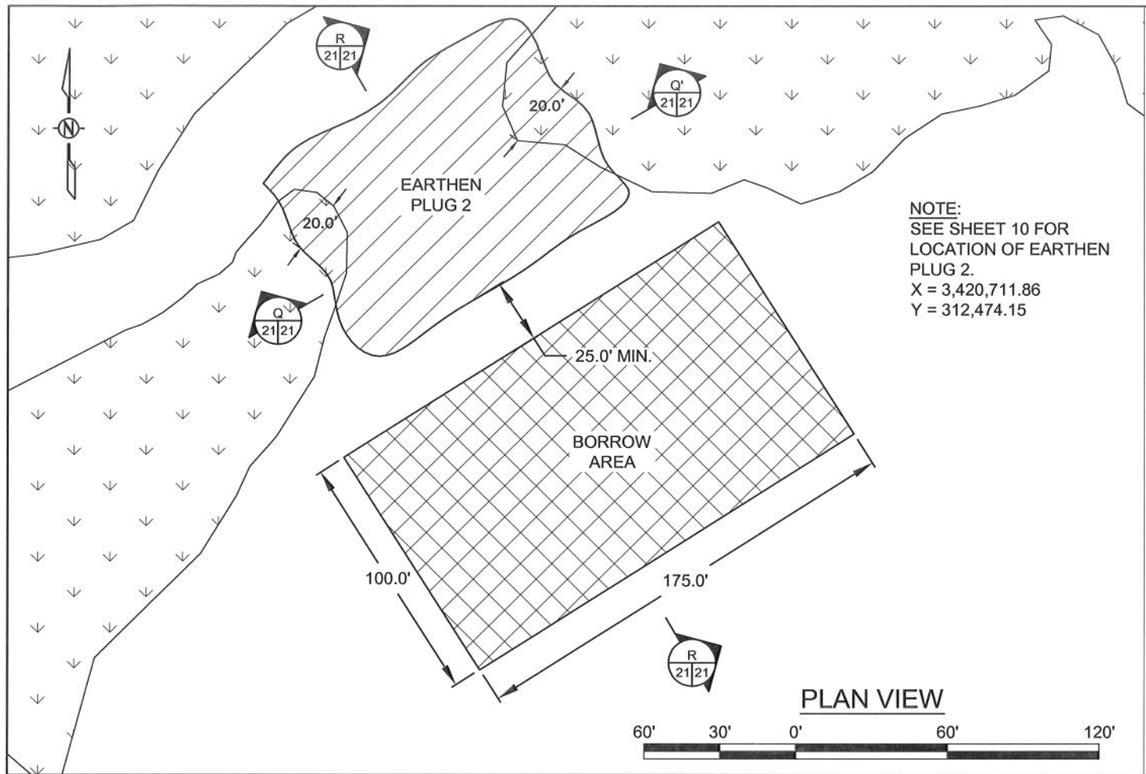
LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

DRAWN BY: SHANE FAUST
DESIGNED BY: JERRY CARROLL, P.E.

NORTH LAKE MECHANT LANDBRIDGE RESTORATION PROJECT
STATE PROJECT NUMBER: TE-44
FEDERAL PROJECT NUMBER: N/A
APPROVED BY: LUKE LE BAS, P.E.

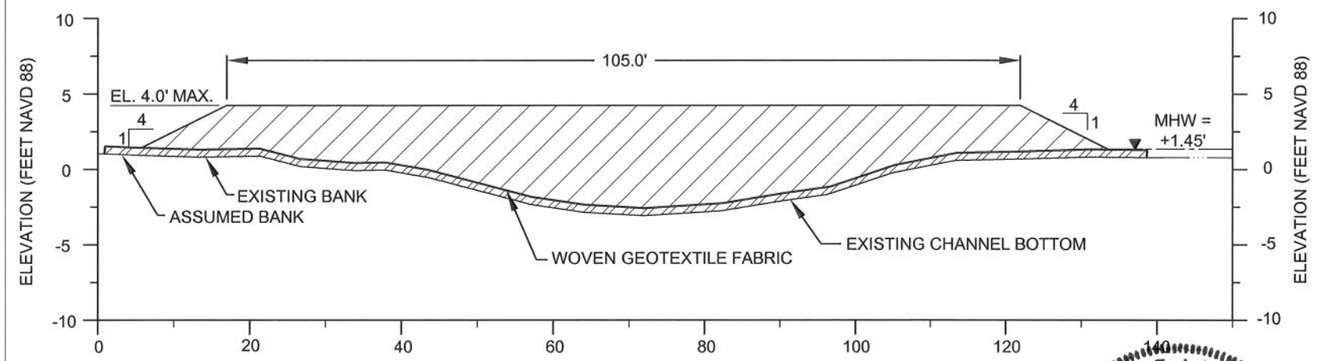
EARTHEN PLUG 1
DATE: JANUARY 2008
SHEET 20 OF 65

G:\Users\Autocad\BASINS\TE\TE-44 Lake Mechant\Final Plan Set\2007 revisons\C20 Earth Plug 1.dwg



NOTE:
SEE SHEET 10 FOR LOCATION OF EARTHEN PLUG 2.
X = 3,420,711.86
Y = 312,474.15

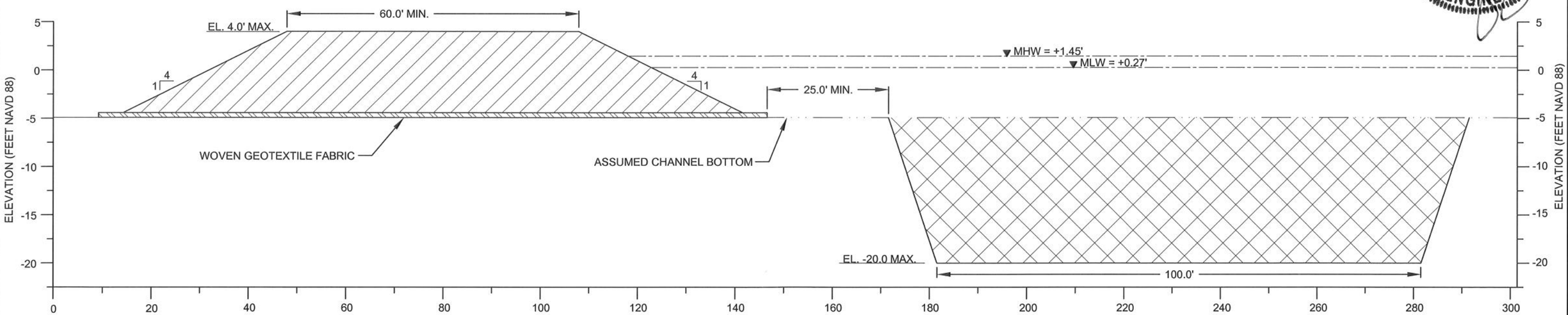
PLAN VIEW



SECTION Q-Q'
LOOKING NORTH
REFERENCE CONTROL SITE #1

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

STATE OF LOUISIANA
JERRY S. CARROLL
REG. No. 24418
REGISTERED
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
1-17-08



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

SECTION R-R'
LOOKING EAST

NOTES:
1. FILL VOLUME = 2,500 CU. YARDS.
2. WOVEN GEOTEXTILE AREA = 2,200 SQ. YARDS.
3. EARTHEN PLUGS SHALL BE CONSTRUCTION USING A MINIMUM OF 2 LIFTS.
4. SEE SHEET 30 FOR WOVEN GEOTEXTILE LAYOUT AND TS-11 OF THE SPECIFICATIONS FOR PHYSICAL REQUIREMENTS.

REV.	DATE	DESCRIPTION	BY

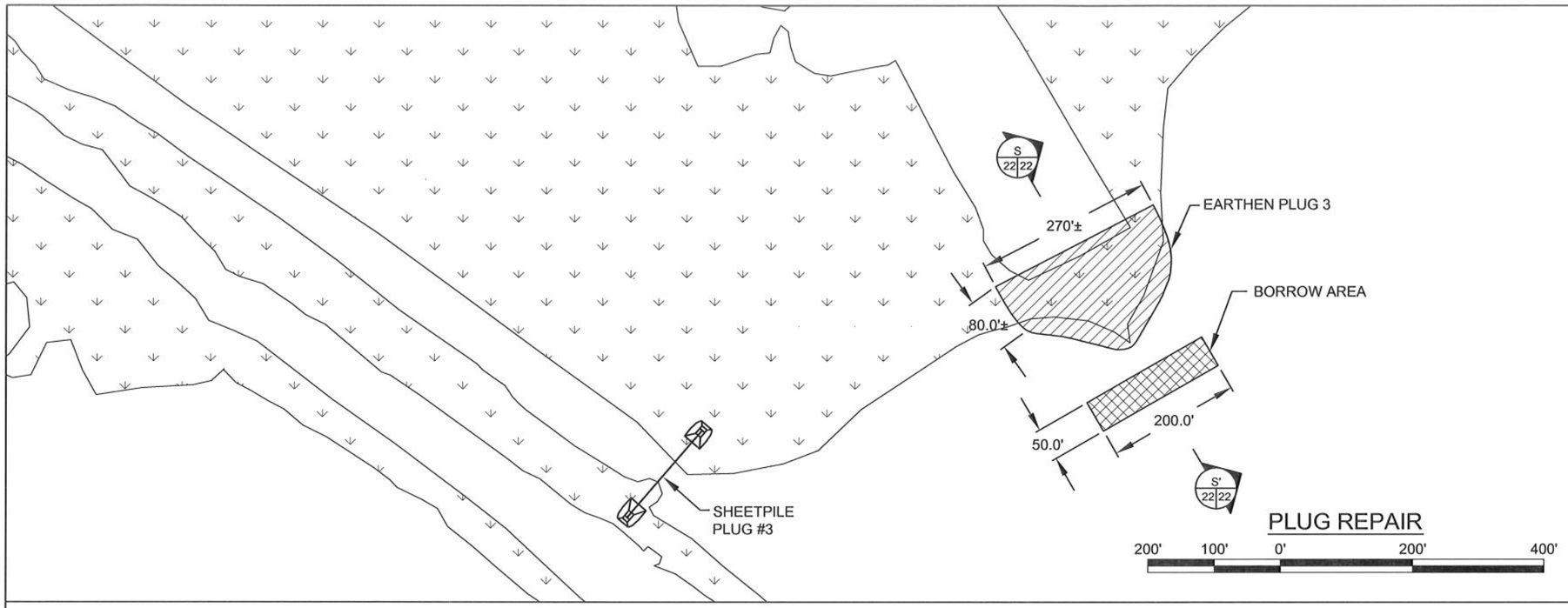
LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

DRAWN BY: KRISTI CANTU
DESIGNED BY: MITCH ANDRUS, P.E.

NORTH LAKE MECHANT LANDBRIDGE RESTORATION PROJECT
STATE PROJECT NUMBER: TE-44
FEDERAL PROJECT NUMBER: N/A
APPROVED BY: LUKE LEBAS, P.E.

EARTHEN PLUG 2
DATE: JANUARY 2008
SHEET 21 OF 65

G:\Users\Autocad\BASINS\TE\TE-44 Lake Mechant\Final Plan Set\2007 revisons\C21 Earth Plug 2.dwg



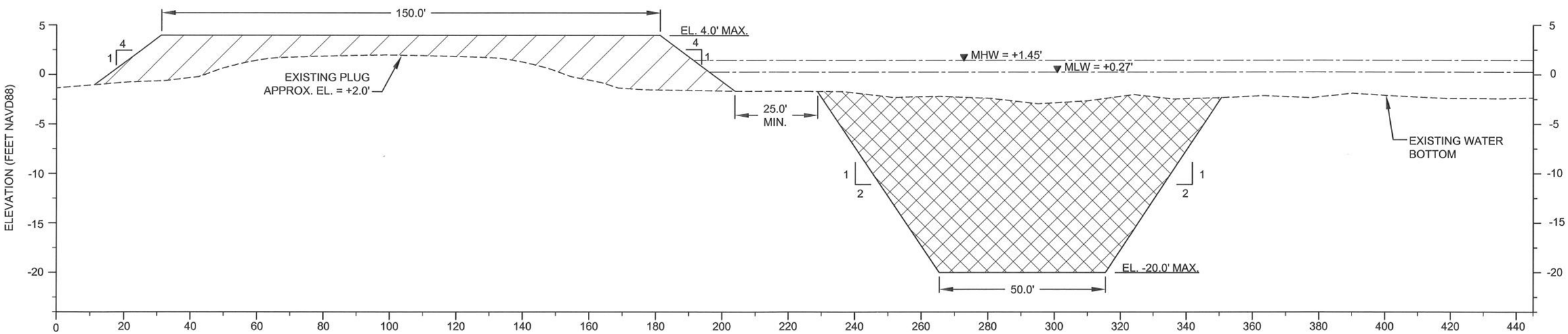
PLUG REPAIR

200' 100' 0' 200' 400'

STATE OF LOUISIANA
JERRY S. CARROLL
REG. No. 24418
REGISTERED
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
1-17-08

NOTES:

1. SEE SHEET 9 FOR LOCATION OF EARTHEN PLUG 3.
   X = 3,407,829.88
   Y = 305,891.46
2. SEE SHEET 25 FOR SHEET PILE PLUG 3 DETAIL.
3. FILL VOLUME = 5,200 CU. YARDS.
4. REFER TO SECTIONS 21J, 21K, & 21L ON SHEET 63 FOR EXISTING PLUG TOPOGRAPHY SURVEYED OCTOBER 2003.
5. MULTIPLE LIFTS ARE NOT REQUIRED AT THIS LOCATION.
6. NO WOVEN GEOTEXTILE IS REQUIRED FOR THIS PLUG SITE.



SECTION S-S'

LOOKING EAST

HORIZONTAL GRAPHIC SCALE
30' 15' 0 30' 60'
10' 5' 0 10' 20'
VERTICAL GRAPHIC SCALE

REV.	DATE	DESCRIPTION	BY

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

DRAWN BY: SHANE FAUST
DESIGNED BY: JERRY CARROLL, P.E.

NORTH LAKE MECHANT LANDBRIDGE RESTORATION PROJECT

STATE PROJECT NUMBER: TE-44
FEDERAL PROJECT NUMBER: N/A
APPROVED BY: LUKE LEBAS, P.E.

EARTHEN PLUG 3

DATE: JANUARY 2008
SHEET 22 OF 65

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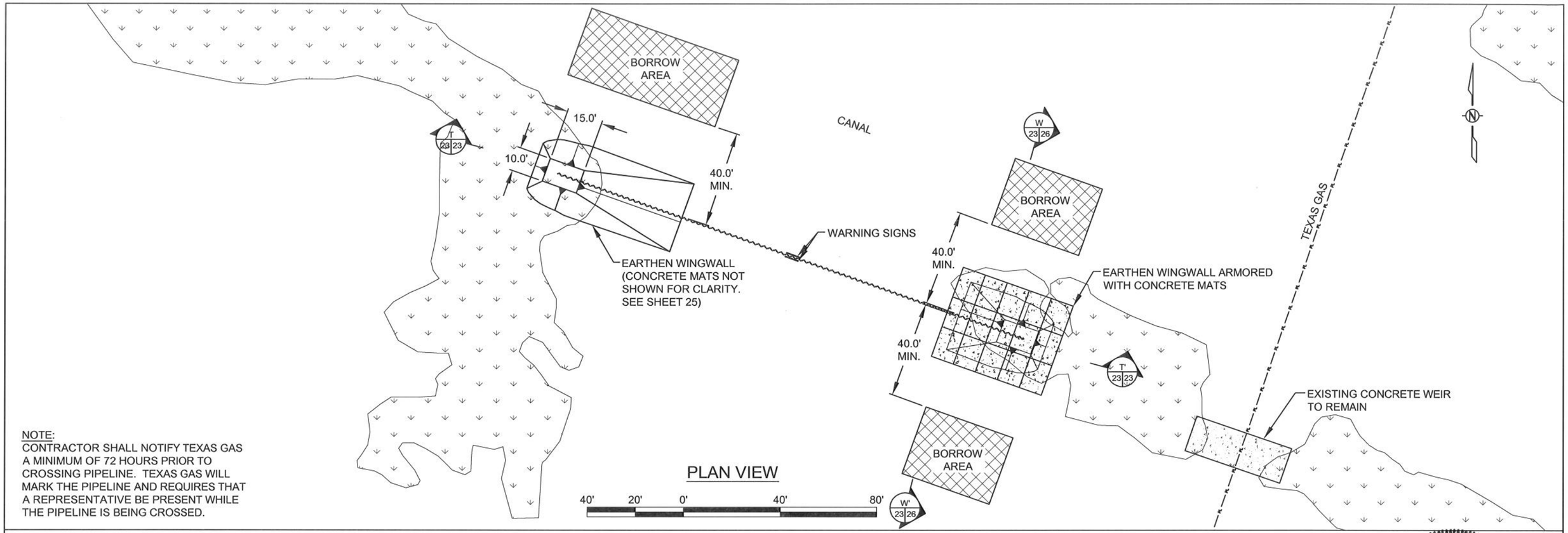
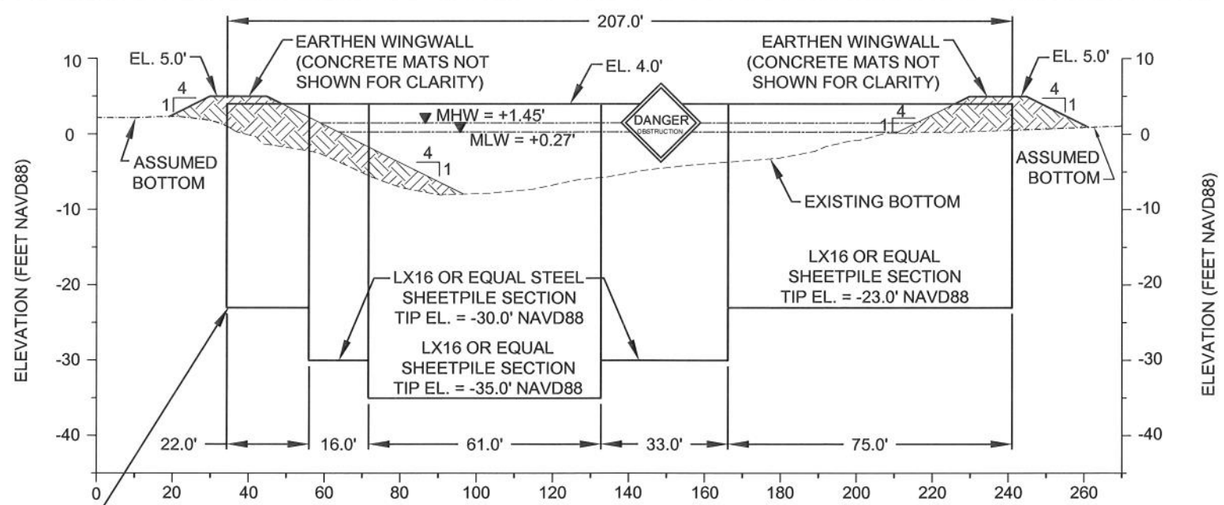


PLAN VIEW

NOTE:
CONTRACTOR SHALL NOTIFY TEXAS GAS A MINIMUM OF 72 HOURS PRIOR TO CROSSING PIPELINE. TEXAS GAS WILL MARK THE PIPELINE AND REQUIRES THAT A REPRESENTATIVE BE PRESENT WHILE THE PIPELINE IS BEING CROSSED.



SECTION T-T'
LOOKING NORTH

HORIZONTAL GRAPHIC SCALE
40' 20' 0 40' 80'
20' 10' 0 20' 40'
VERTICAL GRAPHIC SCALE

STATE OF LOUISIANA
JERRY S. CARROLL
REG. No. 24418
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING
1-17-08

NOTES:
1. SEE SHEET 7 FOR SHEETPILE PLUG 1 LOCATION.
   X = 3,391,516.15
   Y = 305,554.64
2. SEE SHEET 26 FOR TYPICAL SECTIONS AND SHEET 32 FOR DESIGN DETAILS.
3. THE COST OF THE WARNING SIGNS ATTACHED TO THE STEEL SHEETING SHALL BE INCLUDED IN THE STEEL SHEET PILE ITEM.
4. SEE SHEET 30 FOR WARNING SIGN DETAIL.
5. WARNING SIGNS SHALL BE PLACED ON EACH SIDE OF THE STRUCTURE.

REV.	DATE	DESCRIPTION	BY

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

DRAWN BY: SHANE FAUST
DESIGNED BY: JERRY CARROLL, P.E.

NORTH LAKE MECHANT LANDBRIDGE RESTORATION PROJECT
STATE PROJECT NUMBER: TE-44
FEDERAL PROJECT NUMBER: N/A
APPROVED BY: LUKE LEBAS, P.E.

SHEETPILE PLUG 1
DATE: JANUARY 2008
SHEET 23 OF 65

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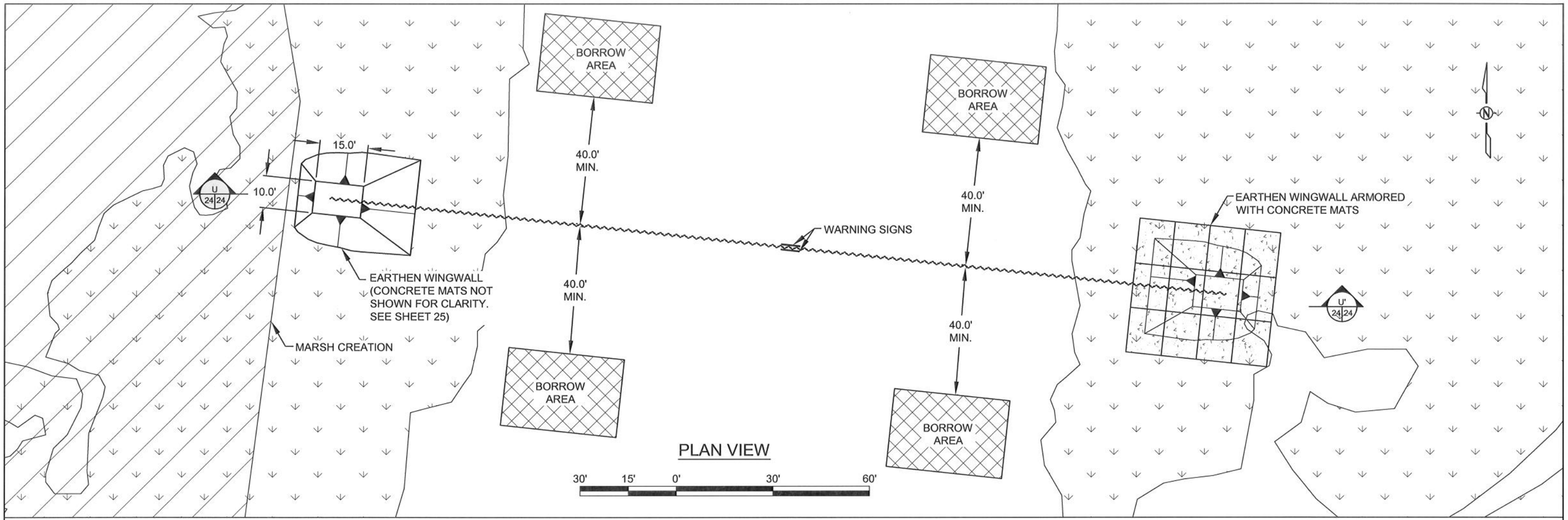

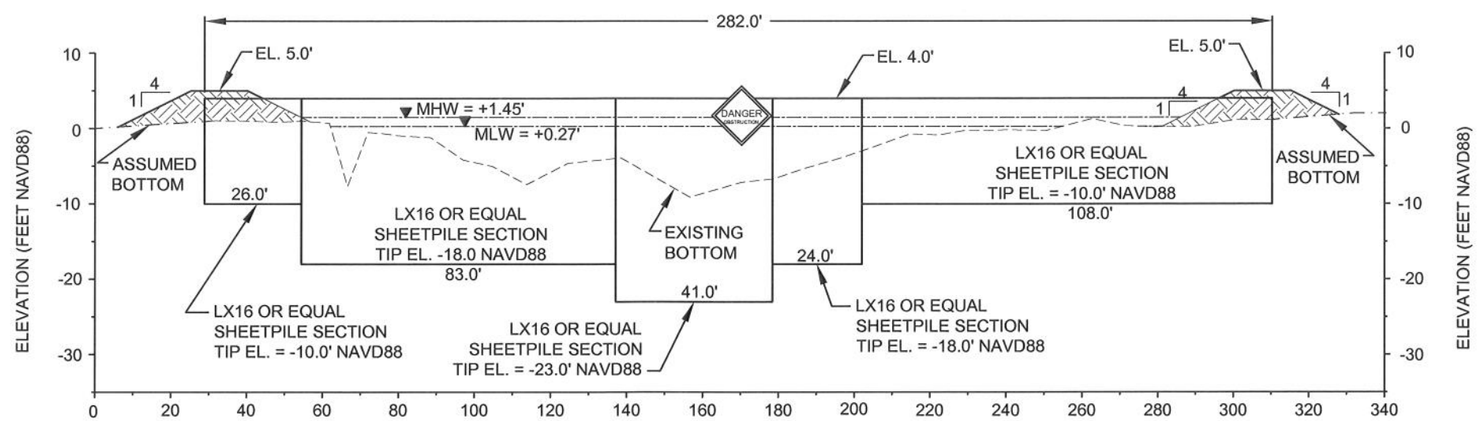

SECTION U-U'

LOOKING NORTH

HORIZONTAL GRAPHIC SCALE

40' 20' 0 40' 80'

20' 10' 0 20' 40'

VERTICAL GRAPHIC SCALE

NOTES:

1. SEE SHEET 7 FOR SHEET PILE PLUG 2 LOCATION.
   X = 3,394,815.80
   Y = 303,200.15
2. SEE SHEET 26 FOR TYPICAL SECTIONS AND SHEET 32 FOR DESIGN DETAILS.
3. THE COST OF THE WARNING SIGNS ATTACHED TO THE STEEL SHEETING SHALL BE INCLUDED IN THE STEEL SHEET PILING ITEM.
4. SEE SHEET 30 FOR WARNING SIGN DETAIL.
5. WARNING SIGNS SHALL BE PLACED ON EACH SIDE OF THE STRUCTURE.

STATE OF LOUISIANA
JERRY S. CARROLL
REG. No. 24418
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING
1-17-08

REV.	DATE	DESCRIPTION	BY

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

DRAWN BY: SHANE FAUST
DESIGNED BY: JERRY CARROLL, P.E.

NORTH LAKE MECHANT LANDBRIDGE RESTORATION PROJECT

STATE PROJECT NUMBER: TE-44

FEDERAL PROJECT NUMBER: N/A

APPROVED BY: LUKE LEBAS, P.E.

SHEETPILE PLUG 2

DATE: JANUARY 2008

SHEET 24 OF 65

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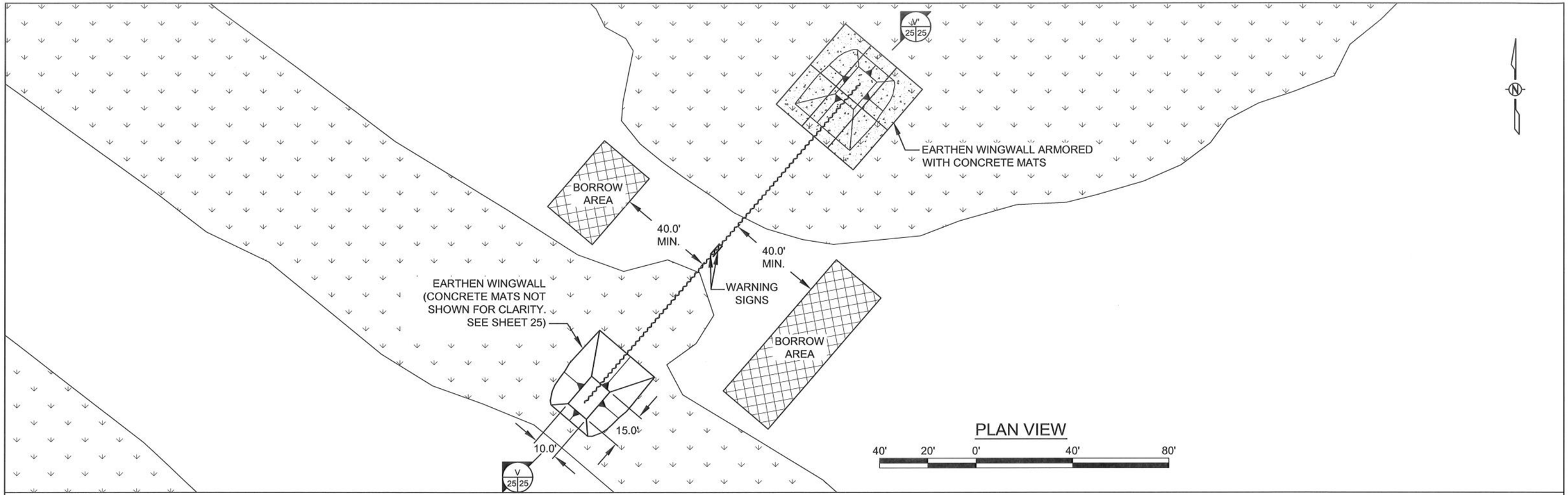

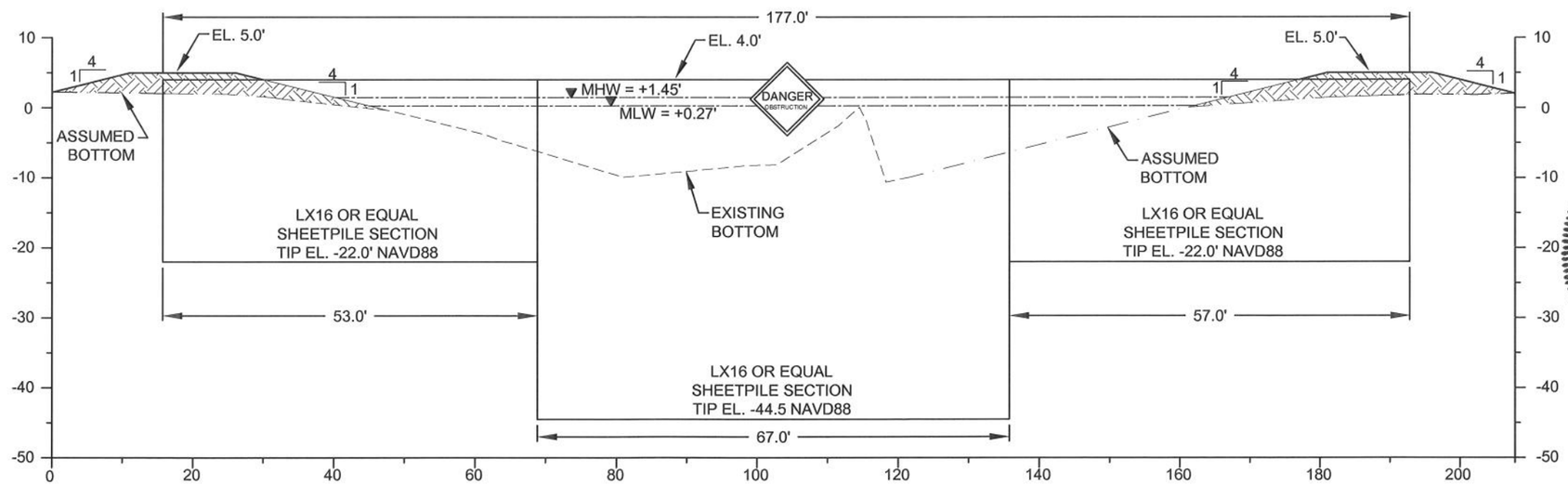

SECTION V-V'
LOOKING NORTH

40' 20' 0' 40' 80'

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

STATE OF LOUISIANA
JERRY S. CARROLL
REG. No. 24418
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING
1-17-08

NOTES:
1. SEE SHEET 8 FOR SHEETPILE PLUG 3 LOCATION.
   X = 3,407,186.68
   Y = 305,550.70
2. SEE SHEET 26 FOR TYPICAL SECTIONS AND SHEET 32 FOR DESIGN DETAILS.
3. THE COST OF THE WARNING SIGNS ATTACHED TO THE STEEL SHEETING SHALL BE INCLUDED IN THE STEEL SHEETPILING ITEM.
4. SEE SHEET 30 FOR WARNING SIGN DETAIL.
5. WARNING SIGNS SHALL BE PLACED ON EACH SIDE OF THE STRUCTURE.

REV.	DATE	DESCRIPTION	BY

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

DRAWN BY: SHANE FAUST
DESIGNED BY: JERRY CARROLL, P.E.

NORTH LAKE MECHANT LANDBRIDGE RESTORATION PROJECT

STATE PROJECT NUMBER: TE-44
FEDERAL PROJECT NUMBER: N/A
APPROVED BY: LUKE LEBAS, P.E.

SHEETPILE PLUG 3

DATE: JANUARY 2008
SHEET 25 OF 65

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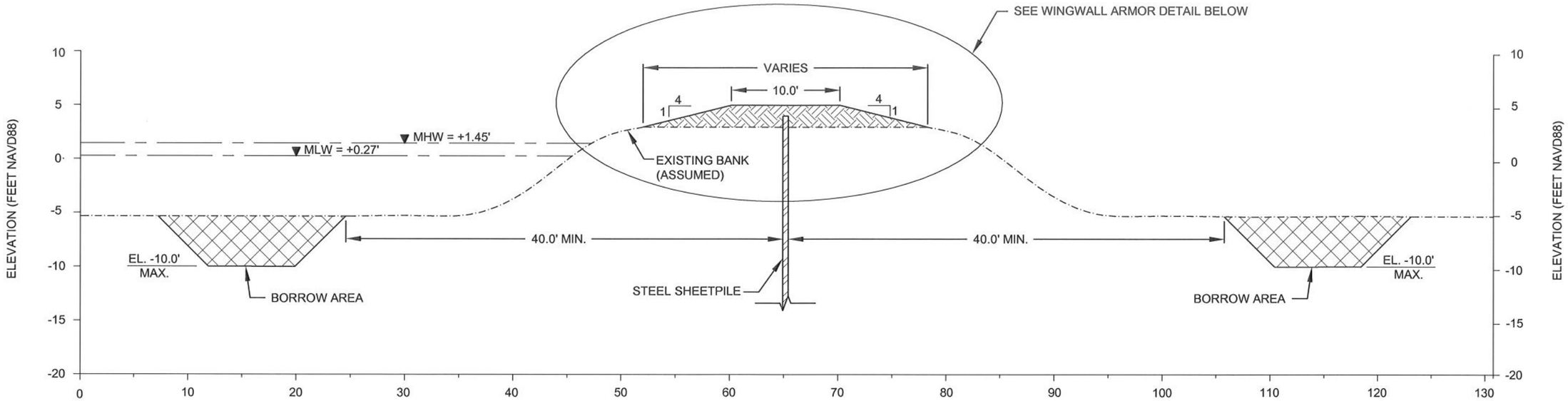


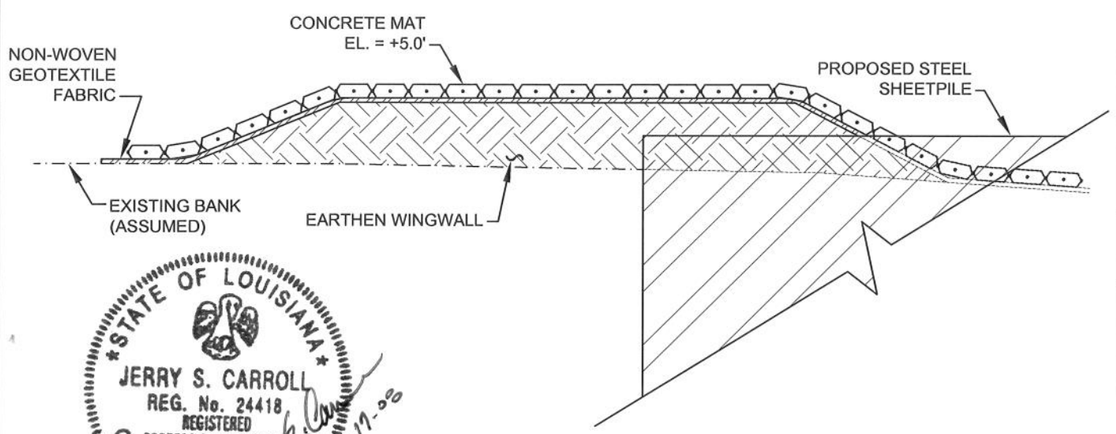
SECTION W-W'

LOOKING EAST

10' 5' 0' 10' 20'

NOTES:

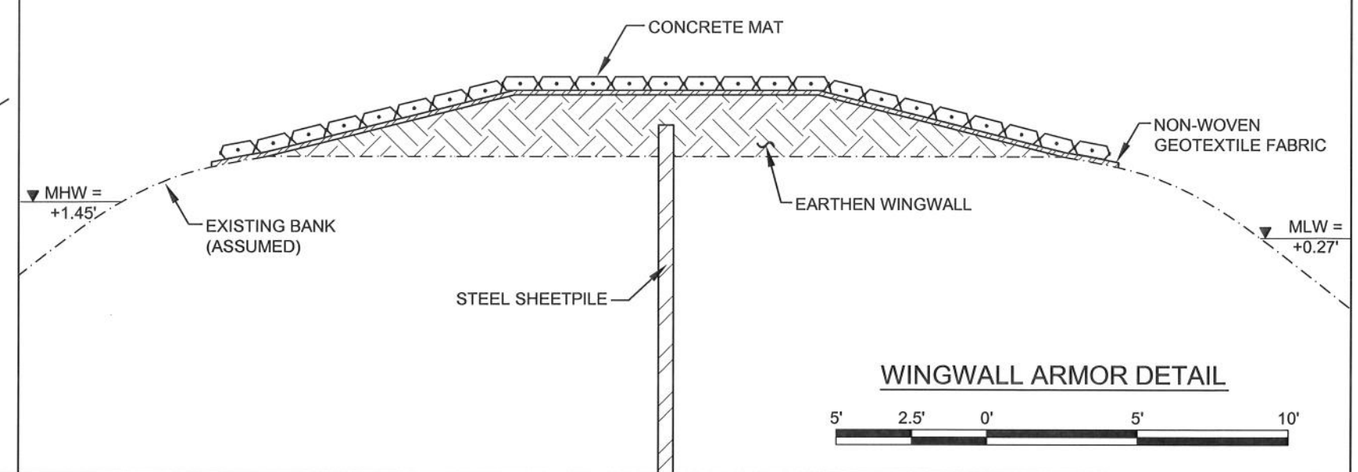
1. SEE SHEET 22, 23, AND 24 FOR SHEETPILE TIP ELEVATIONS.
2. SEE SHEET 31 FOR CONCRETE MAT DETAILS AND TS-13.



STATE OF LOUISIANA
JERRY S. CARROLL
REG. No. 24418
REGISTERED
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
1-11-08

PROFILE

5' 2.5' 0' 5' 10'



WINGWALL ARMOR DETAIL

5' 2.5' 0' 5' 10'

REV.	DATE	DESCRIPTION	BY

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

DRAWN BY: SHANE FAUST
DESIGNED BY: JERRY CARROLL, P.E.

NORTH LAKE MECHANT LANDBRIDGE RESTORATION PROJECT

STATE PROJECT NUMBER: TE-44

FEDERAL PROJECT NUMBER: N/A

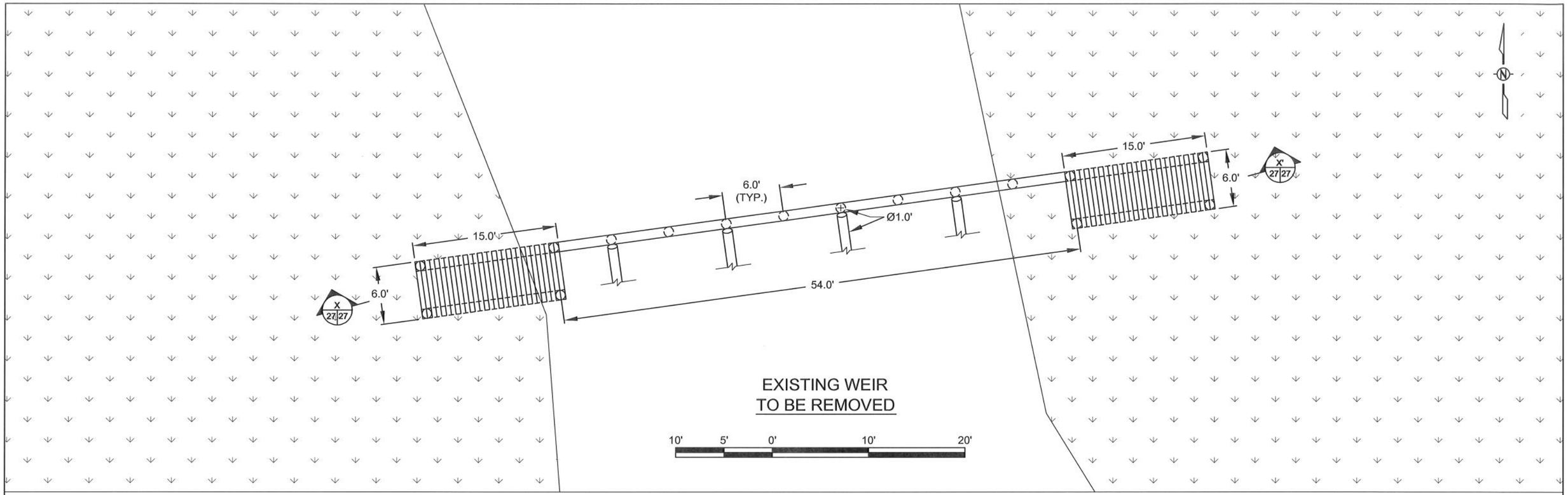
APPROVED BY: LUKE LEBAS, P.E.

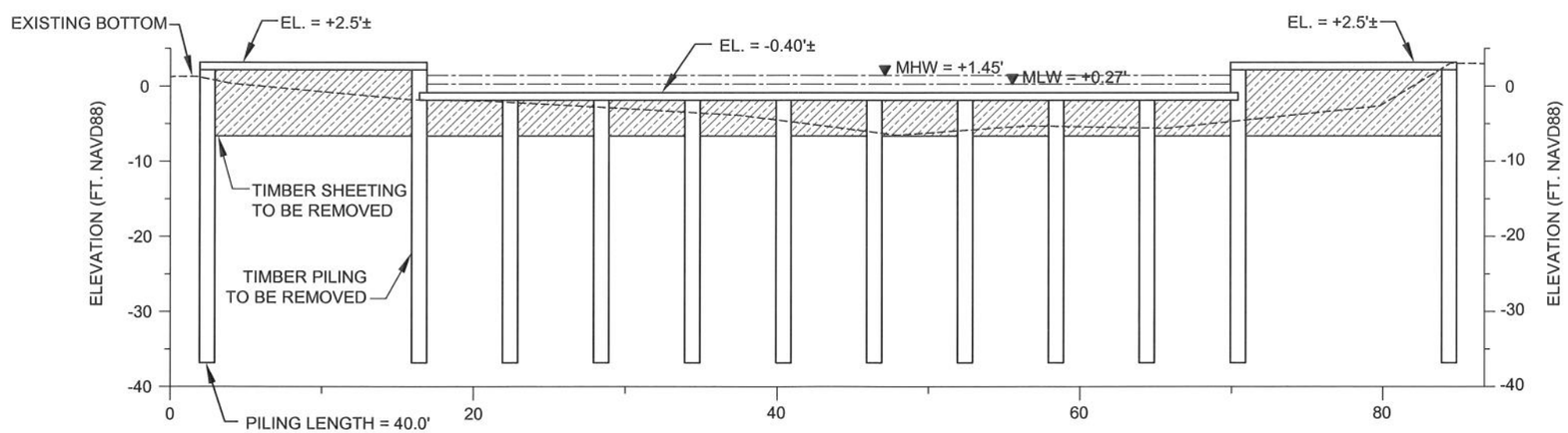
SHEETPILE TYPICALS

DATE: JANUARY 2008

SHEET 26 OF 65

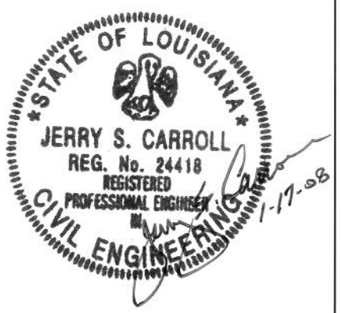
G:\Users\Autocad\BASINS\TE\TE-44 Lake Mechant\Final Plan Set\2007 revisons\C26 Sheetpile Typicals.dwg





SECTION X-X'

LOOKING NORTH



HORIZONTAL GRAPHIC SCALE

10' 5' 0 10' 20'

20' 10' 0 20' 40'

VERTICAL GRAPHIC SCALE

NOTES:

1. SEE SHEET 7 FOR LOCATION OF WEIR.
   X = 3,401,235.34
   Y = 305,334.21
2. WEIR TO BE REMOVED AND REPLACED WITH A STEEL SHEETPILE WEIR SHOWN ON SHEET 28.
3. CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION, REMOVAL AND DISPOSAL OF THE EXISTING STRUCTURE. THE EXISTING STRUCTURE CONDITION MAY NOT BE AS DEPICTED.
4. THE MATERIAL SHALL BE DISPOSED OF IN ACCORDANCE WITH TITLE 33, PART VII, SUB-PART 1 (SOLID WASTE) OF THE LOUISIANA ENVIRONMENTAL REGULATORY CODE, LATEST REVISION.
5. CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL COSTS ASSOCIATED WITH THE DEMOLITION, REMOVAL AND DISPOSAL OF THE EXISTING STRUCTURE.
6. ANY STRUCTURE PENETRATING THE MUDLINE MUST BE REMOVED IN ITS ENTIRETY WITH AS LITTLE SOIL DISTURBANCE AS POSSIBLE. IF THIS IS NOT POSSIBLE, ANY AND ALL SUCH STRUCTURES SHALL BE REMOVED TO FOUR (4) FEET BELOW THE MUDLINE OR LOWER.
7. SEE TS-16 FOR WEIR REMOVAL SPECIFICATIONS.

REV.	DATE	DESCRIPTION	BY

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

DRAWN BY: SHANE FAUST
DESIGNED BY: JERRY CARROLL, P.E.

NORTH LAKE MECHANT LANDBRIDGE RESTORATION PROJECT

STATE PROJECT NUMBER: TE-44

FEDERAL PROJECT NUMBER: N/A

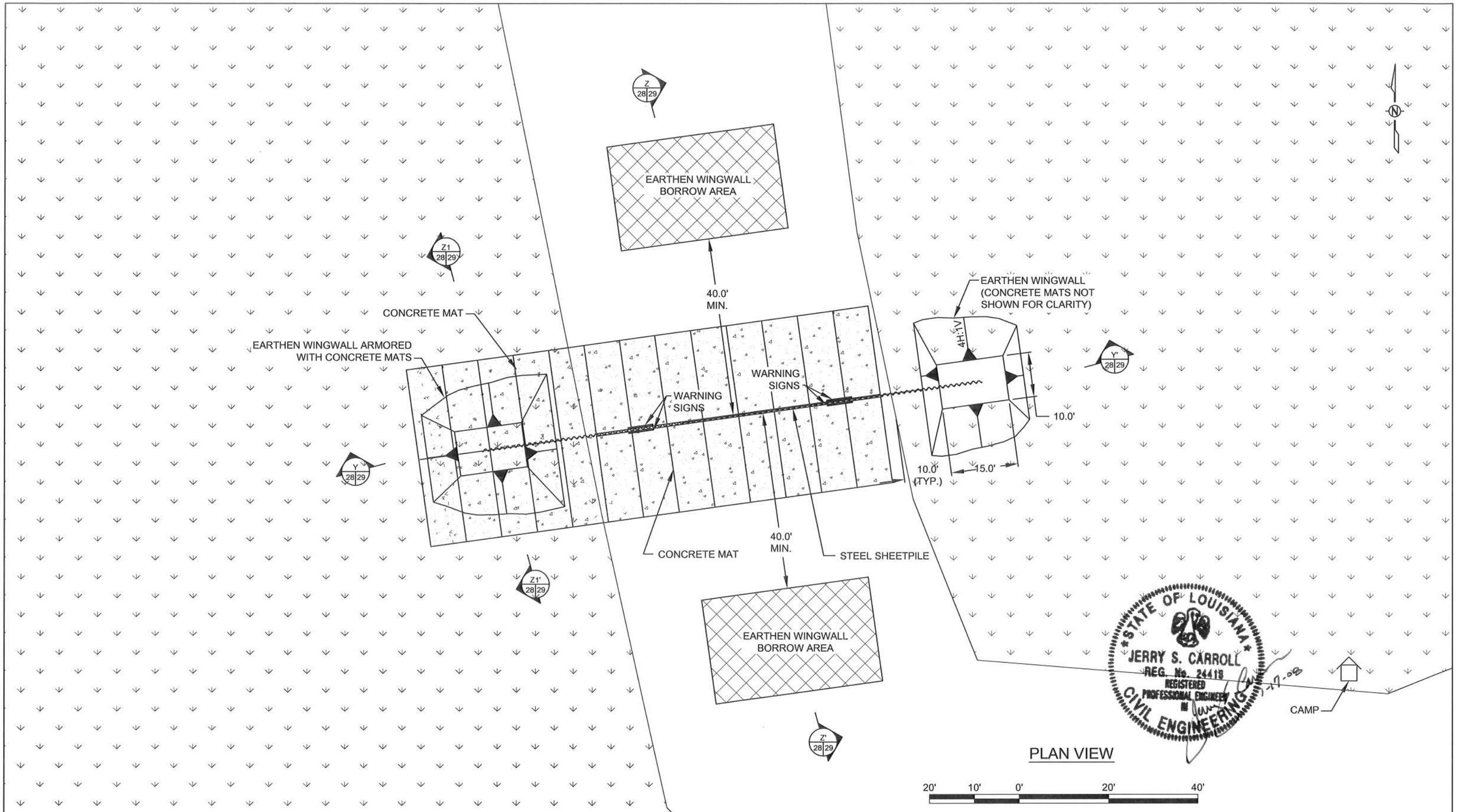
APPROVED BY: LUKE LEBAS, P.E.

EXISTING WEIR REMOVAL

DATE: JANUARY 2008

SHEET 27 OF 65

G:\Users\Autocad\BASINS\TE\TE-44 Lake Mechant\Final Plan Set\2007 revisons\C27 Weir Removal.dwg



NOTES:

1. SEE SHEET 7 FOR LOCATION OF EXISTING WEIR.
2. SEE SHEET 29 FOR SECTIONS AND DESIGN DETAILS.
3. DEPENDING ON SITE AND SOIL CONDITIONS AFTER EXISTING WEIR REMOVAL, THE EXACT LOCATION OF THE REPLACEMENT WEIR MAY BE MODIFIED BY THE LDNR PROJECT ENGINEER.
4. SEE SHEET 26 FOR WING WALL DETAILS.

REV.	DATE	DESCRIPTION	BY

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

DRAWN BY: SHANE FAUST | DESIGNED BY: JERRY CARROLL, P.E.

NORTH LAKE MECHANT LANDBRIDGE RESTORATION PROJECT

STATE PROJECT NUMBER: TE-44

FEDERAL PROJECT NUMBER: N/A

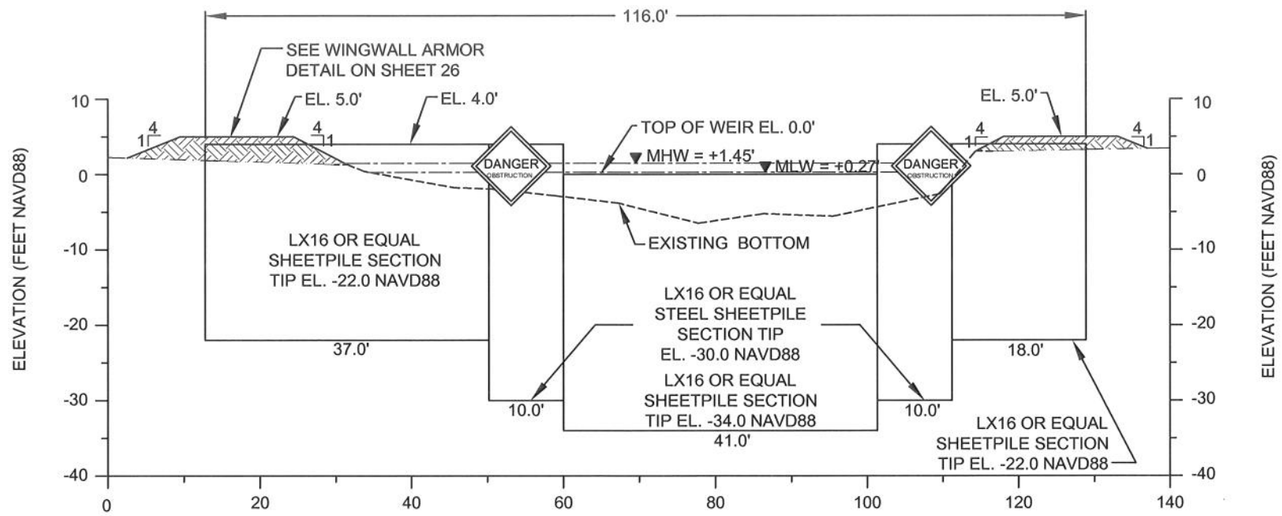
APPROVED BY: LUKE LEBAS, P.E.

WEIR REPLACEMENT PLAN VIEW

DATE: JANUARY 2008

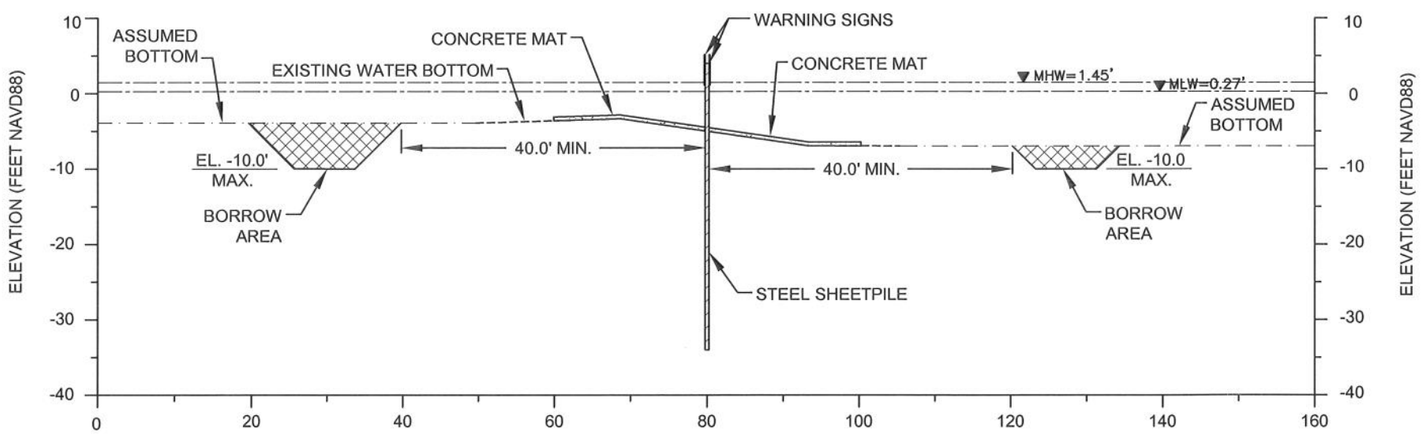
SHEET 28 OF 65

G:\Users\Autocad\BASINS\TE\TE-44 Lake Mechant\Final Plan Set\2007 revisons\C28-29 Replacement Weir.dwg



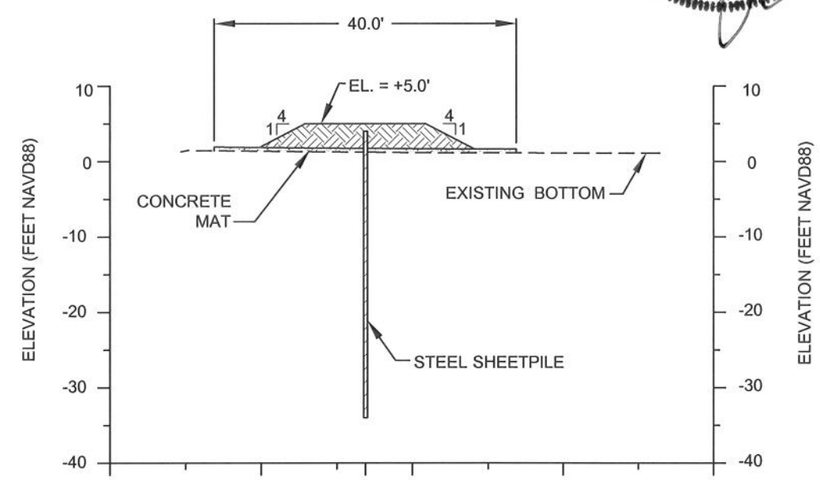
SECTION Y-Y'

LOOKING NORTH



SECTION Z-Z'

LOOKING EAST



SECTION Z1-Z1'

LOOKING WEST

HORIZONTAL GRAPHIC SCALE

20' 10' 0 20' 40'

VERTICAL GRAPHIC SCALE

20' 10' 0 20' 40'

STATE OF LOUISIANA
JERRY S. CARROLL
REG. No. 24418
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING
1-17-08

NOTES:

1. SEE SHEET 26 FOR TYPICAL SECTIONS AND SHEET 32 FOR DESIGN DETAILS.
2. COST OF WARNING SIGNS SHALL BE INCLUDED IN COST OF STEEL SHEETPILING.
3. SEE SHEET 30 FOR WARNING SIGN DETAIL.

REV.	DATE	DESCRIPTION	BY

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

DRAWN BY: SHANE FAUST
DESIGNED BY: JERRY CARROLL, P.E.

NORTH LAKE MECHANT LANDBRIDGE RESTORATION PROJECT

STATE PROJECT NUMBER: TE-44

FEDERAL PROJECT NUMBER: N/A

APPROVED BY: LUKE LEBAS, P.E.

WEIR REPLACEMENT SECTION VIEWS

DATE: JANUARY 2008

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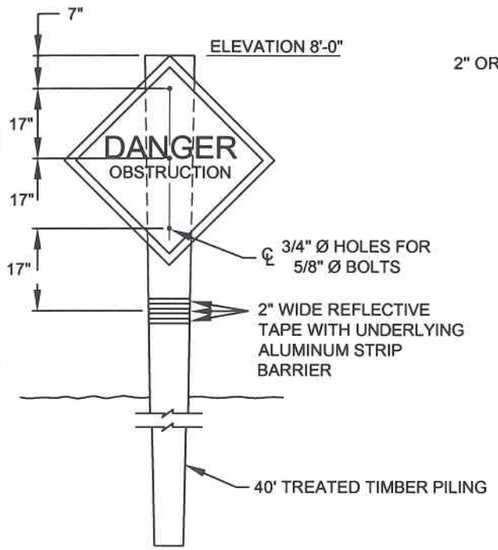
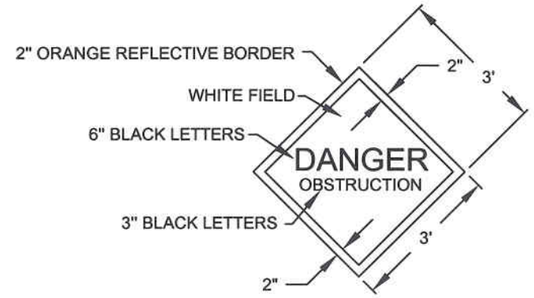
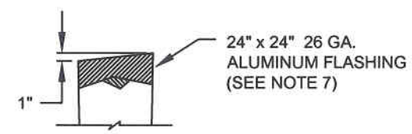


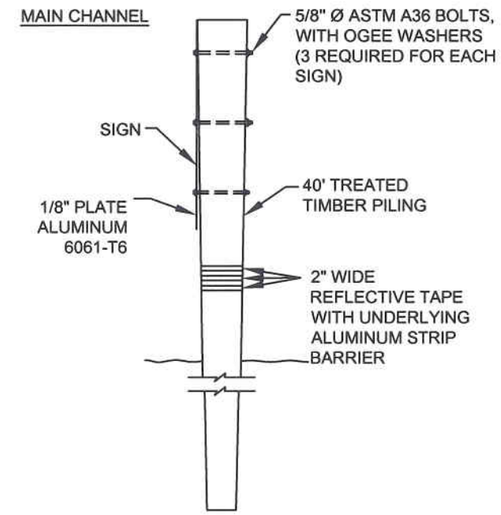
WARNING SIGN ELEVATION
NOT TO SCALE



SIGN DETAIL
NOT TO SCALE



TYPICAL TIMBER PILE CAP
NOT TO SCALE



WARNING SIGN SIDE DETAIL
NOT TO SCALE

GENERAL NOTES:
1. NINE PERMANENT WARNING SIGNS, INCLUDING TIMBER PILES, SHALL BE INSTALLED AT LOCATIONS SHOWN ON SHEETS 8 AND 9.
2. THE 2" BORDER ON THE WARNING SIGN WILL BE A REFLECTIVE MATERIAL OF ORANGE COLOR. THE LETTERING FIELD WILL BE A REFLECTIVE MATERIAL OF WHITE COLOR. THE LETTERING FOR THE WARNING SIGNS WILL BE BLACK. ALL SIGNS MUST MEET U.S. COAST GUARD STANDARDS; IN ACCORDANCE WITH 33 CFR 330.4 (a) (1) WHICH CAN BE DOWNLOADED AT http://www.access.gpo.gov/nara/cfr/waisidx_02/33cfr330_02.html
3. NEOPRENE WASHERS SHALL BE PLACED BETWEEN THE SIGN AND THE PILING AT ALL POINTS OF CONTACT.
4. HARDWARE FOR TIMBER CONNECTIONS SHALL NOT BE HOT DIP GALVANIZED IN ACCORDANCE WITH SECTION 811.5 OF THE LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, AS PUBLISHED BY THE LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT, LATEST EDITION.
5. TIMBER PILES SHALL CONFORM TO SECTIONS 804 AND 1014 OF THE LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, AS PUBLISHED BY THE LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT, LATEST EDITION. PILES SHALL BE TREATED WITH A CREOSOTE SOLUTION CONFORMING TO AWPA P2 TO A MINIMUM RETENTION OF 20 PCF AND CAPPED ACCORDING TO LA DOTD SPECIFICATION 812.06.
6. TIMBER PILINGS SHALL BE 40' IN LENGTH WITH A NORMAL 12" DIAMETER BUTT AND 7" MINIMUM DIAMETER AT THE TIP.
7. THE TOP OF THE PILES SHALL BE COATED WITH COAL TAR EPOXY PAINT PRIOR TO PLACING CAP. THE PILE CAP SHALL BE ATTACHED USING ALUMINUM OR STAINLESS STEEL NAILS.
8. THE WOVEN GEOTEXTILE FABRIC SHALL EXTEND PAST PLUG OR DIKE EDGE BY A MINIMUM OF THREE (3) FEET ON ALL SIDES. ANY SEAM PARALLEL TO PLUG OR DIKE CENTERLINE SHALL BE SEWN. THE MINIMUM OVERLAP AT THE ROLL/GEOTEXTILE PANEL ENDS, PERPENDICULAR TO THE PLUG OR DIKE CENTERLINE, SHALL BE FIVE (5) FEET UNLESS OTHER WISE DIRECTED BY THE ENGINEER.
9. SEE SECTION TS-12 FOR NON-WOVEN GEOTEXTILE FABRIC SPECIFICATIONS.

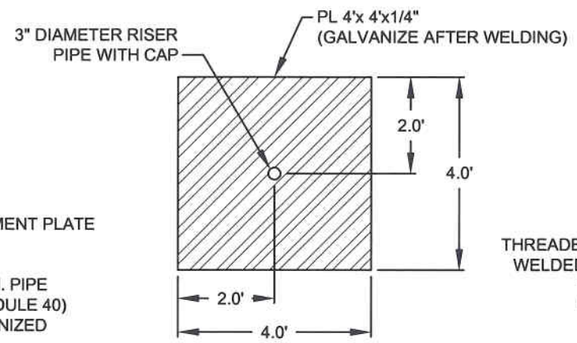
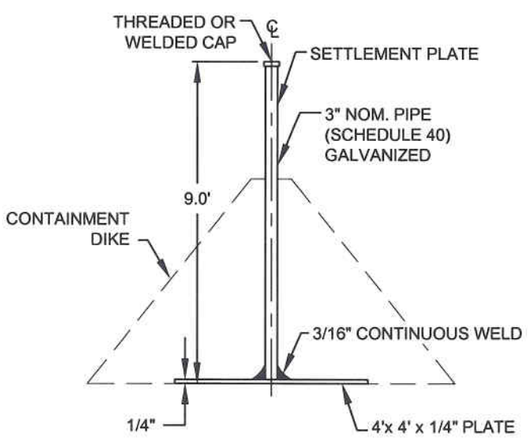
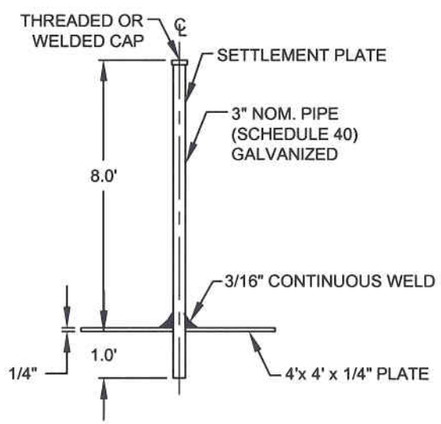


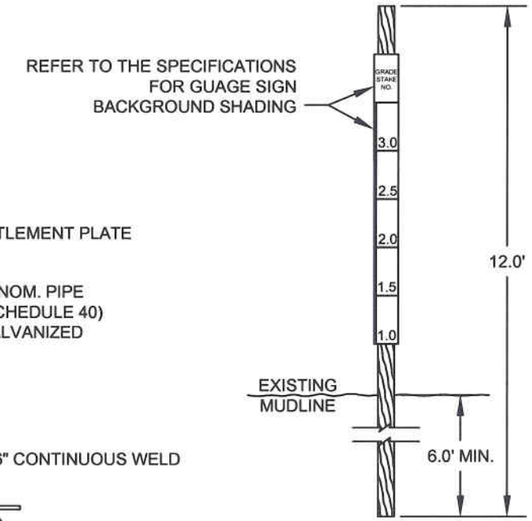
PLATE DETAIL
NOT TO SCALE



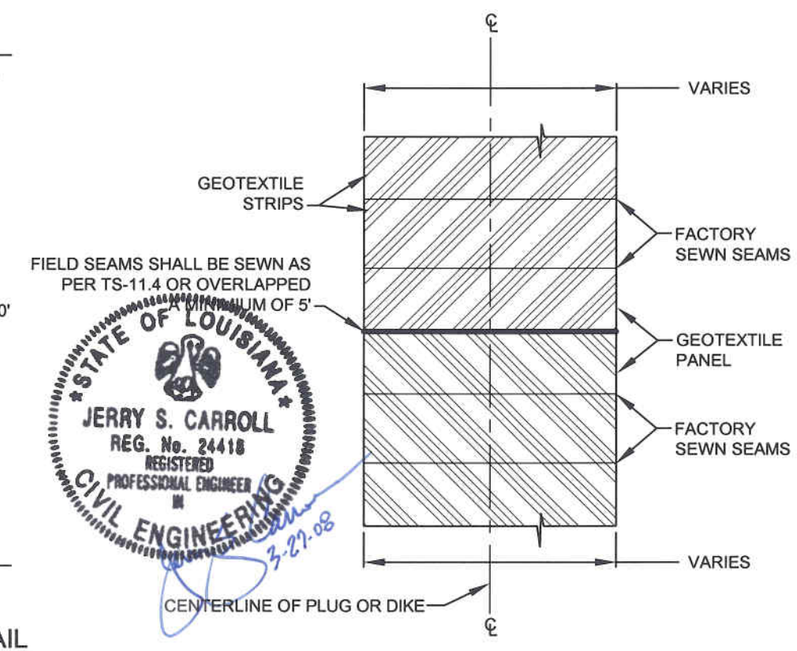
CONTAINMENT DIKE SETTLEMENT PLATE
NOT TO SCALE



MARSH CREATION SETTLEMENT PLATE
NOT TO SCALE



GRADE STAKE DETAIL
NOT TO SCALE



STATE OF LOUISIANA
JERRY S. CARROLL
REG. No. 24418
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING
3-27-08

WOVEN GEOTEXTILE LAYOUT
NOT TO SCALE

SETTLEMENT PLATE NOTES:
1. THREE CONTAINMENT DIKE SETTLEMENT PLATES AND FOUR MARSH CREATION SETTLEMENT PLATES SHALL BE INSTALLED AT LOCATIONS SHOWN ON SHEETS 7, 8 AND 9.
2. THE SETTLEMENT PLATES SHALL BE SURVEYED BY THE CONTRACTOR AND WITNESSED BY THE DNR INSPECTOR UPON INSTALLATION AND WEEKLY UNTIL CONSTRUCTION IS COMPLETE.
3. SETTLEMENT PLATES SHALL BE BUILT USING ASTM A36 STEEL AND HOT-DIPPED GALVANIZED AFTER FABRICATION PER SPECIFICATION TS-17.

REV.	DATE	DESCRIPTION	BY
1	03/27/2008	REVISED GRADE STAKE DETAIL	SF

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

DRAWN BY: SHANE FAUST | DESIGNED BY: JERRY CARROLL, P.E.

NORTH LAKE MECHANT LANDBRIDGE RESTORATION PROJECT

STATE PROJECT NUMBER: TE-44

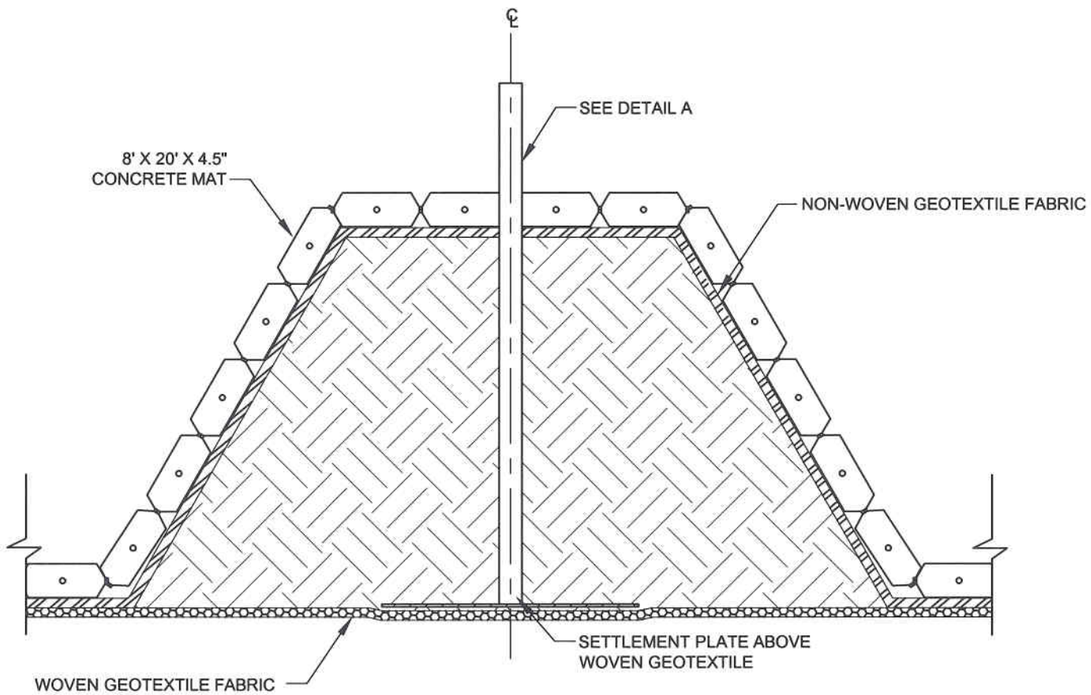
FEDERAL PROJECT NUMBER: N/A

APPROVED BY: LUKE LEBAS, P.E.

DETAILS

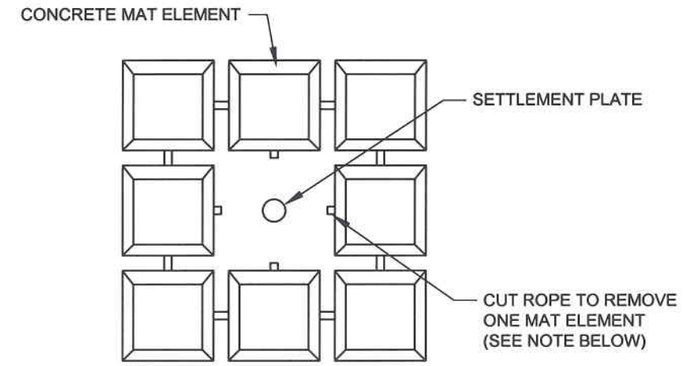
DATE: JANUARY 2008

SHEET 30 OF 65



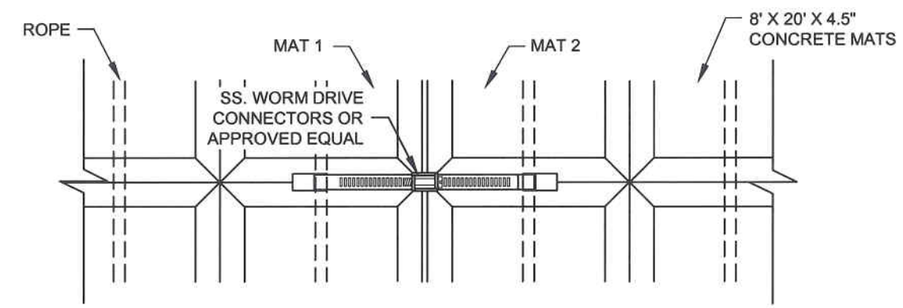
ARMORED EARTHEN DIKE
SETTLEMENT PLATE DETAIL

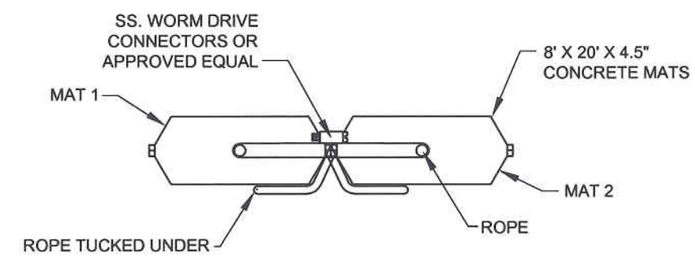
NOT TO SCALE



DETAIL A

NOT TO SCALE





NOTE:
ALL CONNECTORS SHALL BE A 316 STAINLESS STEEL. CONNECTORS SHALL BE PROVIDED BY THE MAT MANUFACTURER AND SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.

STATE OF LOUISIANA
JERRY S. CARROLL
REG. No. 24418
REGISTERED
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING

3-27-08

NOTES:
1. THE CONTRACTOR SHALL BE ALLOWED TO REMOVE ONE MAT ELEMENT FOR THE PLACEMENT OF THE CONCRETE MAT OVER THE SETTLEMENT PLATE. (SEE DETAIL "A").
2. ONE SETTLEMENT PLATE SHALL BE INSTALLED ALONG THE CENTERLINE OF THE CONCRETE MAT STRUCTURE AS SHOWN, OR AS DIRECTED BY THE LDNR PROJECT ENGINEER. APPROXIMATE LOCATION OF THE SETTLEMENT PLATE IS SHOWN ON SHEET 8. ACTUAL LOCATION WILL BE DETERMINED IN THE FIELD. FOR INSTALLATION METHOD REFER TO THE PROJECT SPECIFICATIONS TS-17. SETTLEMENT PLATES SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION.
3. SEE SPECIFICATION SECTION TS-12, NON-WOVEN GEOTEXTILE FABRIC, FOR STRENGTH AND PLACEMENT REQUIREMENTS.
4. SEE SPECIFICATION SECTION TS-13, CONCRETE MATS FOR MATERIAL AND PHYSICAL REQUIREMENTS.

REV.	DATE	DESCRIPTION	BY
1	03/27/2008	ADDED NOTE 4 & CHANGED NOTE FOR MAT CONNECTORS	SF

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

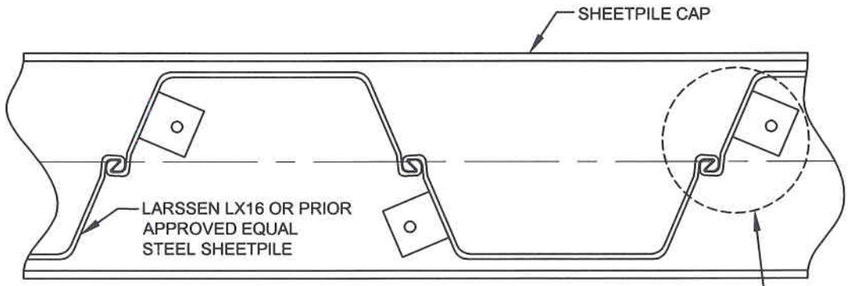
DRAWN BY: KRISTI CANTU
DESIGNED BY: MITCH ANDRUS, P.E.

NORTH LAKE MECHANT LANDBRIDGE RESTORATION PROJECT

STATE PROJECT NUMBER: TE-44
FEDERAL PROJECT NUMBER: N/A
APPROVED BY: LUKE LEBAS, P.E.

DETAILS

DATE: JANUARY 2008
SHEET 31 OF 65

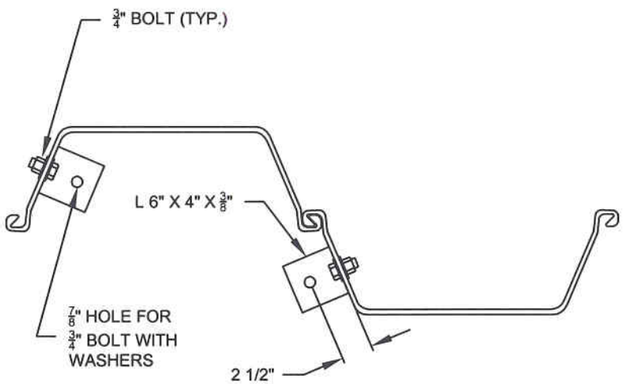


SHEET PILE CAP

PLAN VIEW
SCALE: 1" = 1'

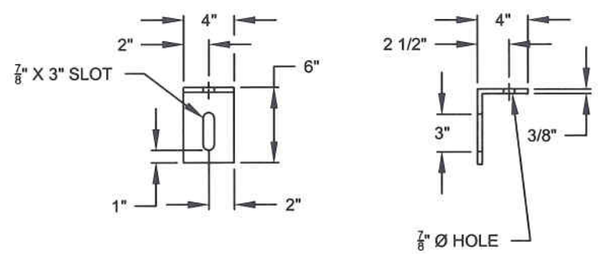
SEE DETAIL A
& DETAIL B,
THIS SHEET

NOTE:
THE SHEETPILE CAP IS TO BE BOLTED TO THE SHEETPILING AT LOCATIONS SHOWN. USE L6" X 4" X $\frac{3}{8}$" STEEL CLIP.



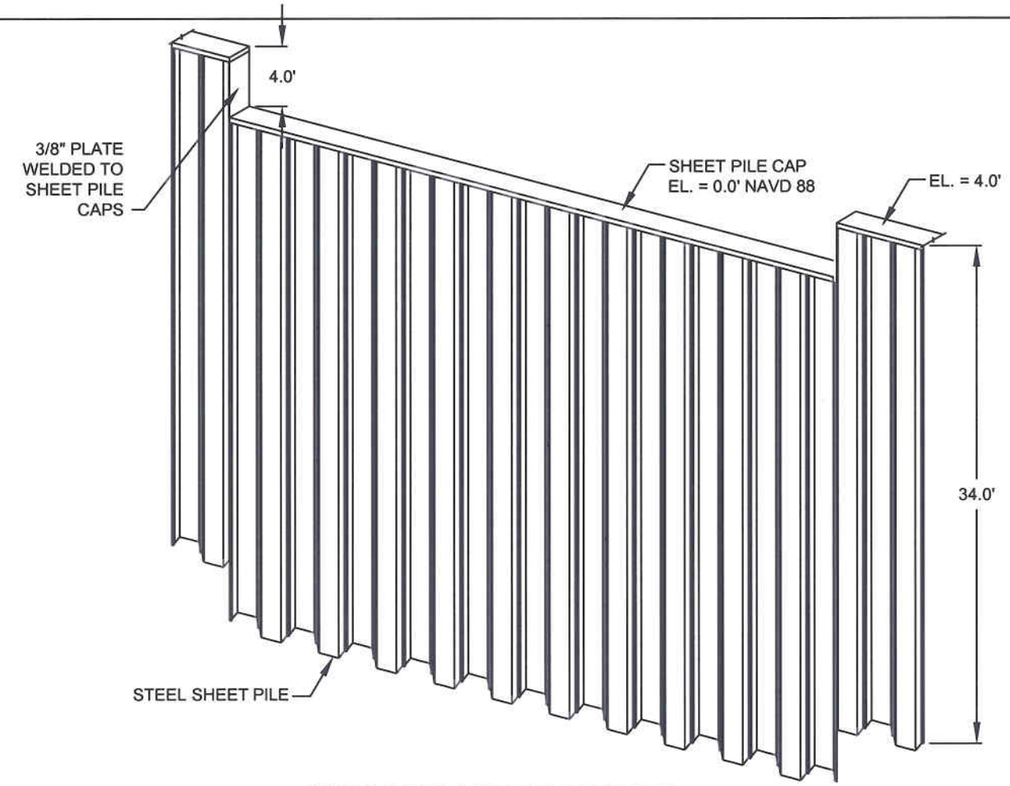
DETAIL A

PLAN VIEW
SCALE: 1" = 1'



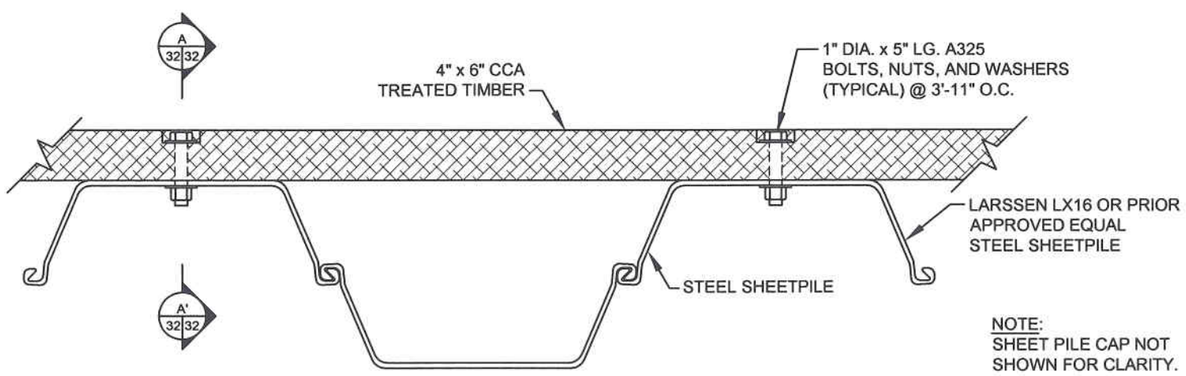
DETAIL B

SIDE & TOP VIEW
SCALE: 1" = 1'



WEIR REPLACEMENT DETAIL

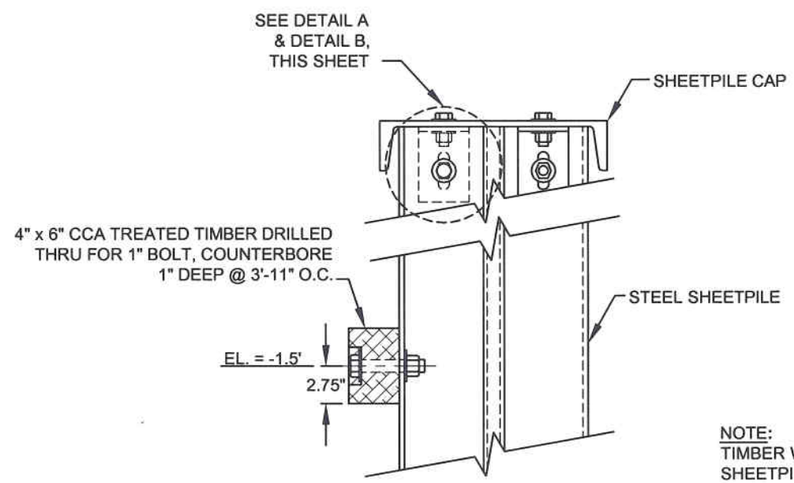
NOT TO SCALE



NOTE:
SHEET PILE CAP NOT SHOWN FOR CLARITY.

WALER CONNECTION DETAIL

SCALE: 1" = 1'



SECTION A-A'

SCALE: 1" = 1'

NOTE:
TIMBER WALER FOR WEIR PORTION OF SHEETPILE SHALL BE AT EL. = -1.5'

STATE OF LOUISIANA
JERRY S. CARROLL
REG. No. 24418
REGISTERED
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
3-27-08

REV.	DATE	DESCRIPTION	BY
1	03/27/2008	DETAILS FOR CONNECTION OF SHEET PILE CAP REVISED FROM WELDED TO BOLTED CONNECTION	SF
2	03/27/2008	NOTED ELEVATION OF WALER FOR WEIR SECTION	SF

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

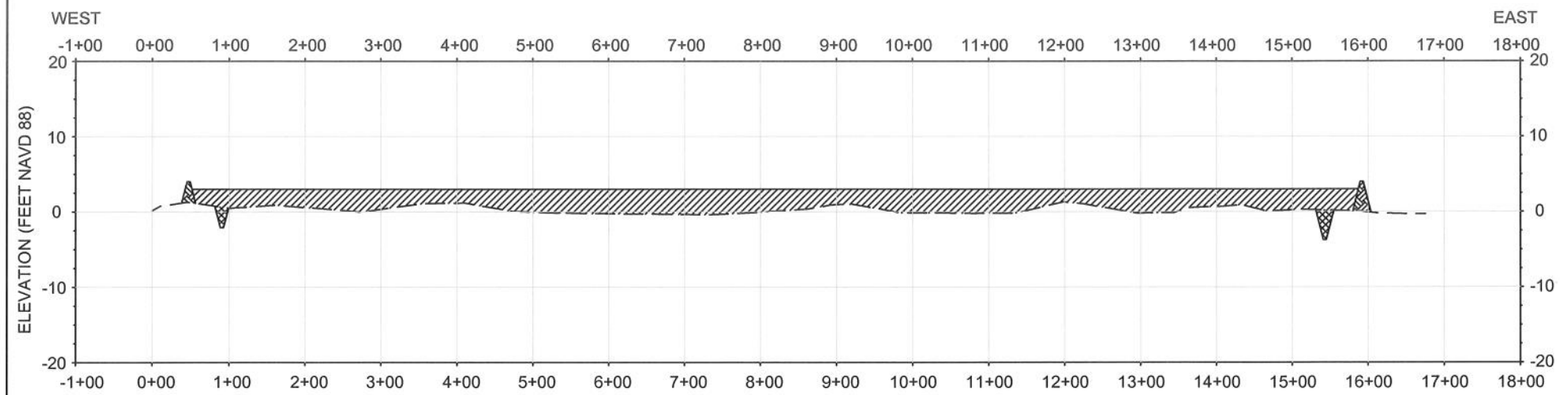
DRAWN BY: SHANE FAUST
DESIGNED BY: JERRY CARROLL, P.E.

NORTH LAKE MECHANT LANDBRIDGE RESTORATION PROJECT

STATE PROJECT NUMBER: TE-44
FEDERAL PROJECT NUMBER: N/A
APPROVED BY: LUKE LEBAS, P.E.

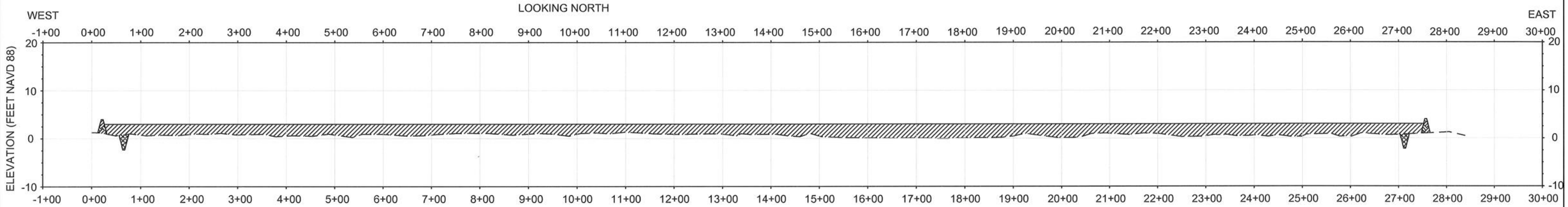
WEIR AND STEEL SHEET PILE DETAILS

DATE: JANUARY 2008
SHEET 32 OF 65



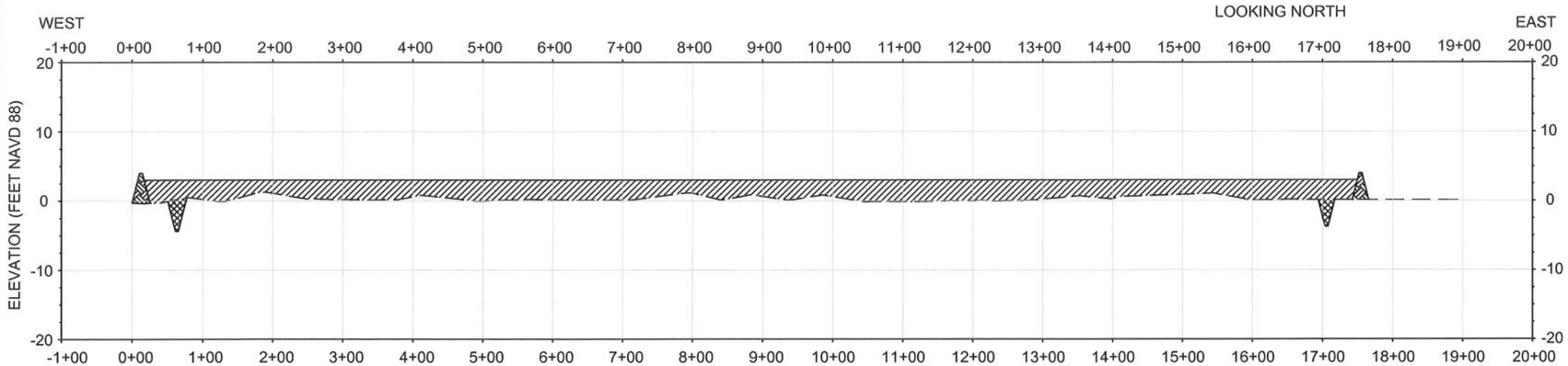
2A PROFILE

FILL AREA 2A
LOOKING NORTH



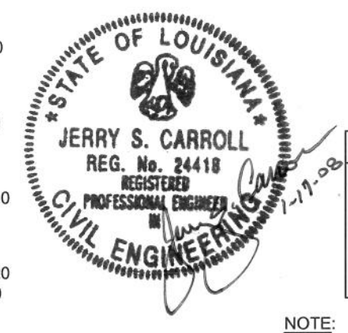
2B PROFILE

FILL AREA 2A
LOOKING NORTH



2C PROFILE

FILL AREA 2A
LOOKING NORTH



LEGEND

- ---- EXISTING BOTTOM
- EARTHEN CONTAINMENT DIKE
- FILL AREA
- BORROW AREA

NOTE:
SEE SHEET 14 FOR ELEVATION OF CONTAINMENT DIKE AND TARGET/MAX. ELEVATION OF MARSH FILL HEIGHT.

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

REV.	DATE	DESCRIPTION	BY

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

DRAWN BY: SHANE FAUST
DESIGNED BY: JERRY CARROLL, P.E.

NORTH LAKE MECHANT LANDBRIDGE RESTORATION PROJECT

STATE PROJECT NUMBER: TE-44
FEDERAL PROJECT NUMBER: N/A
APPROVED BY: LUKE LE BAS, P.E.

SECTIONS

DATE: JANUARY 2008
SHEET 33 OF 65

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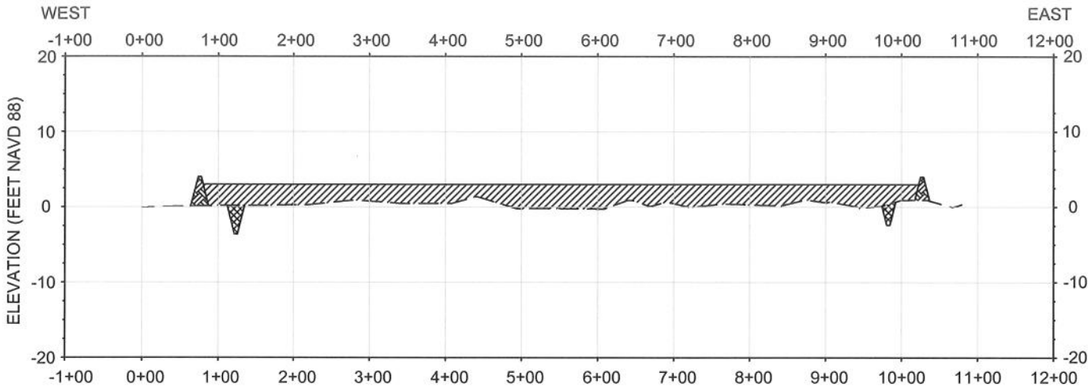
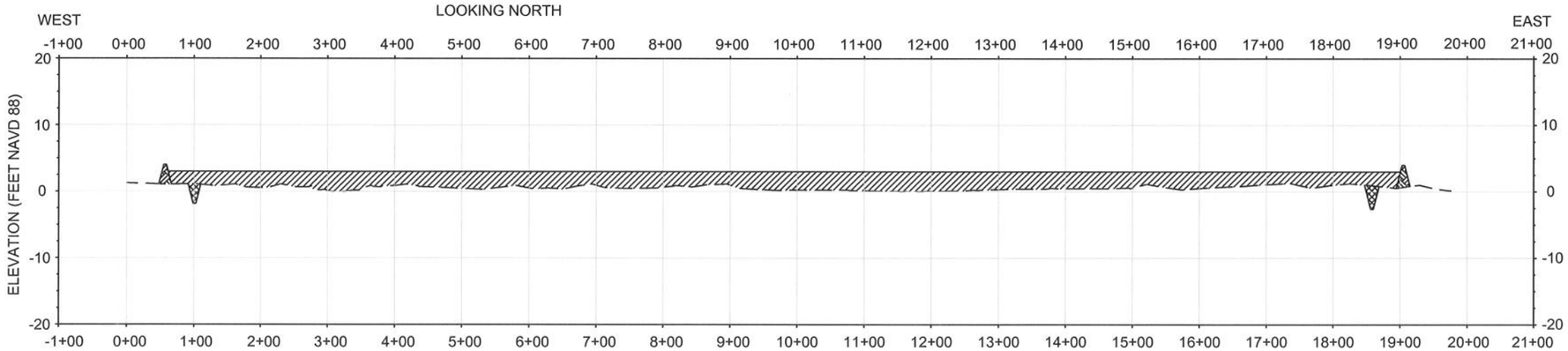


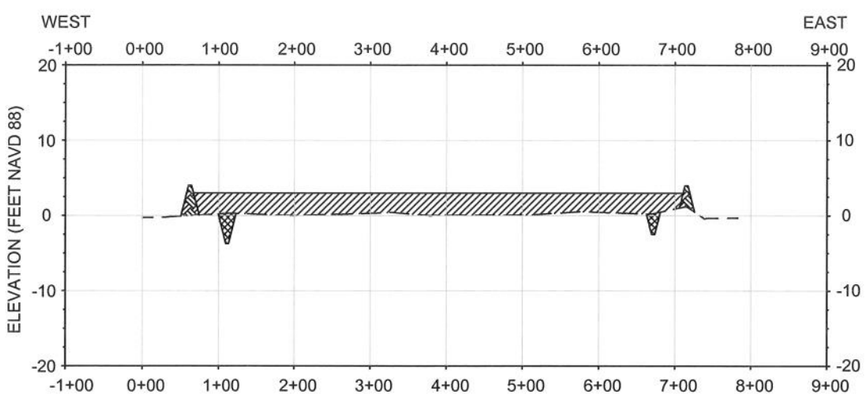
2D PROFILE

FILL AREA 2A
LOOKING NORTH



2E PROFILE

FILL AREA 2A
LOOKING NORTH



2F PROFILE

FILL AREA 2A
LOOKING NORTH

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

STATE OF LOUISIANA
JERRY S. CARROLL
REG. No. 24418
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING
1-17-08

LEGEND
---- EXISTING BOTTOM
EARTHEN CONTAINMENT DIKE
FILL AREA
BORROW AREA

NOTE:
SEE SHEET 14 FOR ELEVATION OF CONTAINMENT DIKE AND TARGET/MAX. ELEVATION OF MARSH FILL HEIGHT.

REV.	DATE	DESCRIPTION	BY

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

DRAWN BY: SHANE FAUST
DESIGNED BY: JERRY CARROLL, P.E.

NORTH LAKE MECHANT LANDBRIDGE RESTORATION PROJECT
STATE PROJECT NUMBER: TE-44
FEDERAL PROJECT NUMBER: N/A
APPROVED BY: LUKE LE BAS, P.E.

SECTIONS
DATE: JANUARY 2008
SHEET 34 OF 65

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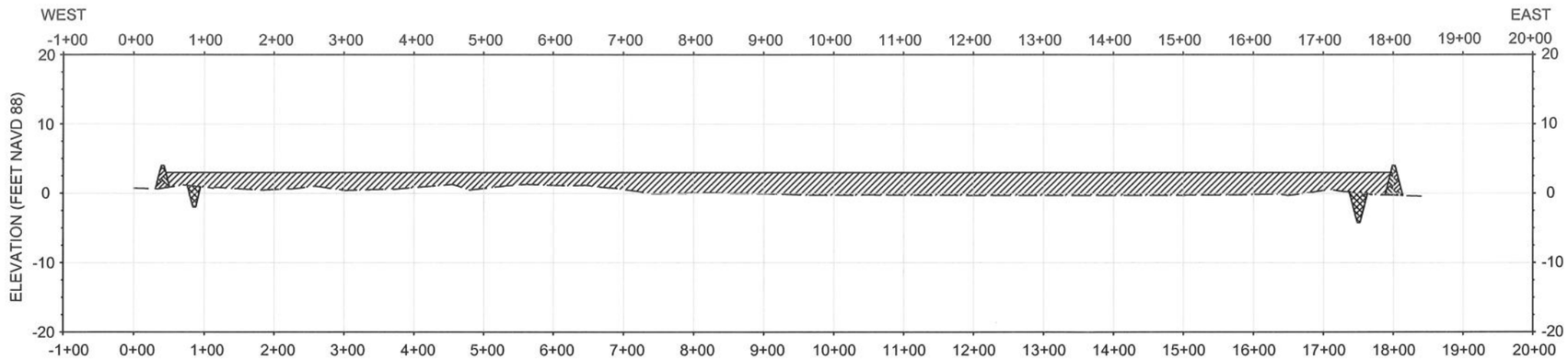
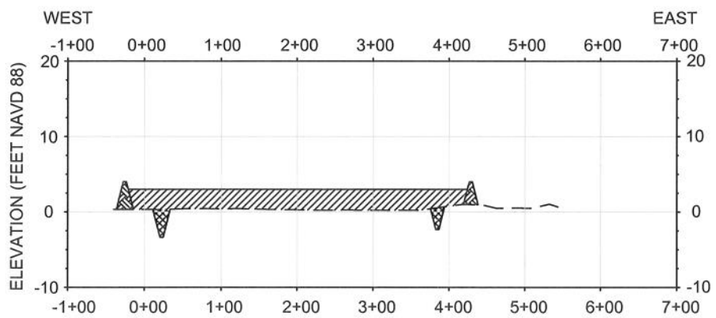


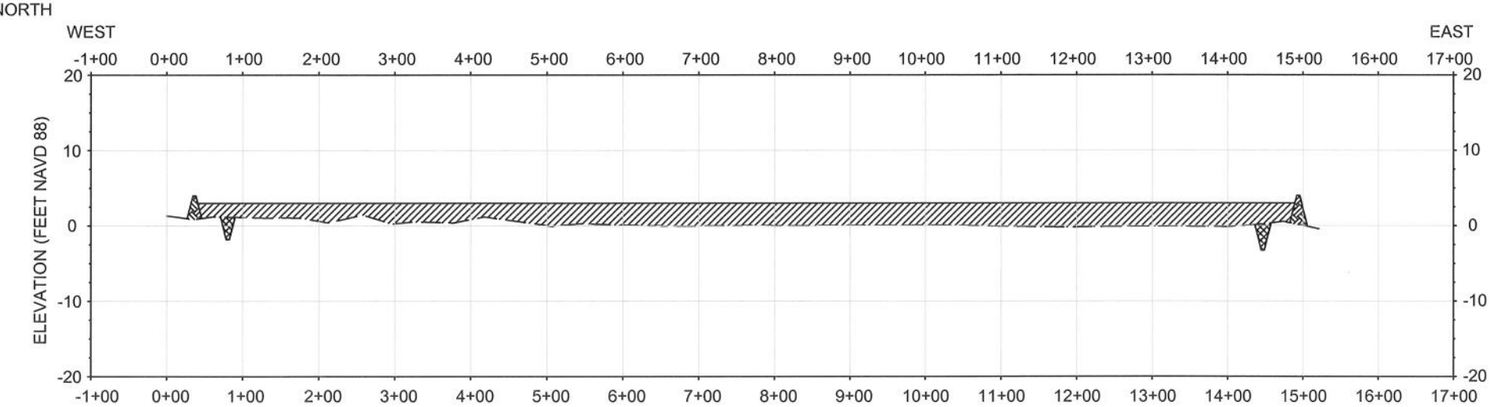
2G PROFILE

FILL AREA 2A
LOOKING NORTH



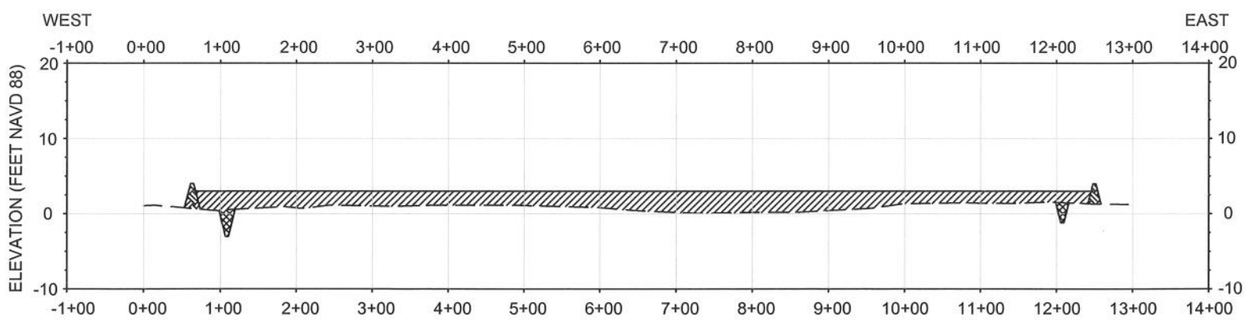
2H PROFILE

FILL AREA 2A
LOOKING NORTH



2I PROFILE

FILL AREA 2A
LOOKING NORTH



2J PROFILE

FILL AREA 2A
LOOKING NORTH

STATE OF LOUISIANA
JERRY S. CARROLL
REG. No. 24418
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING
1-17-08

LEGEND

- ---- EXISTING BOTTOM
- EARTHEN CONTAINMENT DIKE
- FILL AREA
- BORROW AREA

NOTE:
SEE SHEET 14 FOR ELEVATION OF CONTAINMENT DIKE AND TARGET/MAX. ELEVATION OF MARSH FILL HEIGHT.

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

REV.	DATE	DESCRIPTION	BY

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

DRAWN BY: SHANE FAUST
DESIGNED BY: JERRY CARROLL, P.E.

NORTH LAKE MECHANT LANDBRIDGE RESTORATION PROJECT

STATE PROJECT NUMBER: TE-44
FEDERAL PROJECT NUMBER: N/A
APPROVED BY: LUKE LE BAS, P.E.

SECTIONS

DATE: JANUARY 2008
SHEET 35 OF 65

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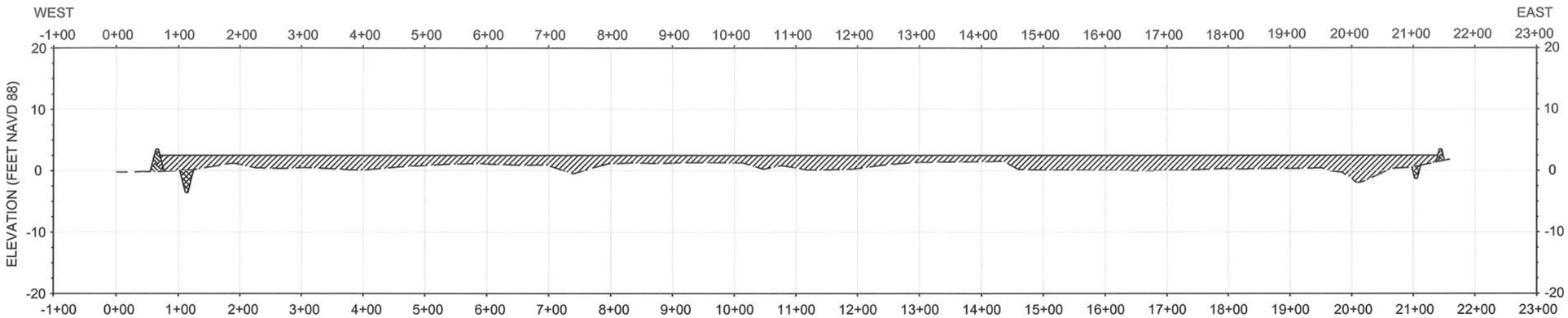
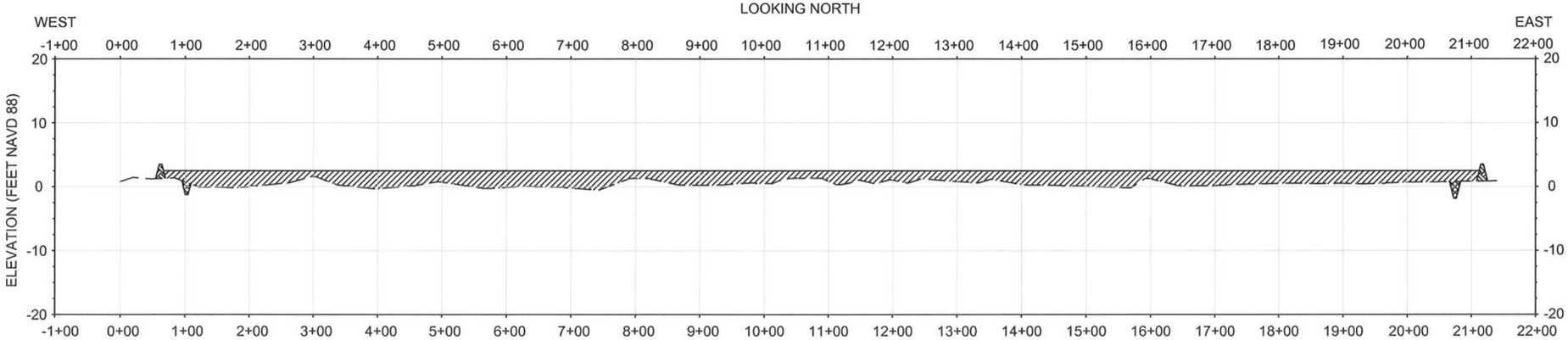


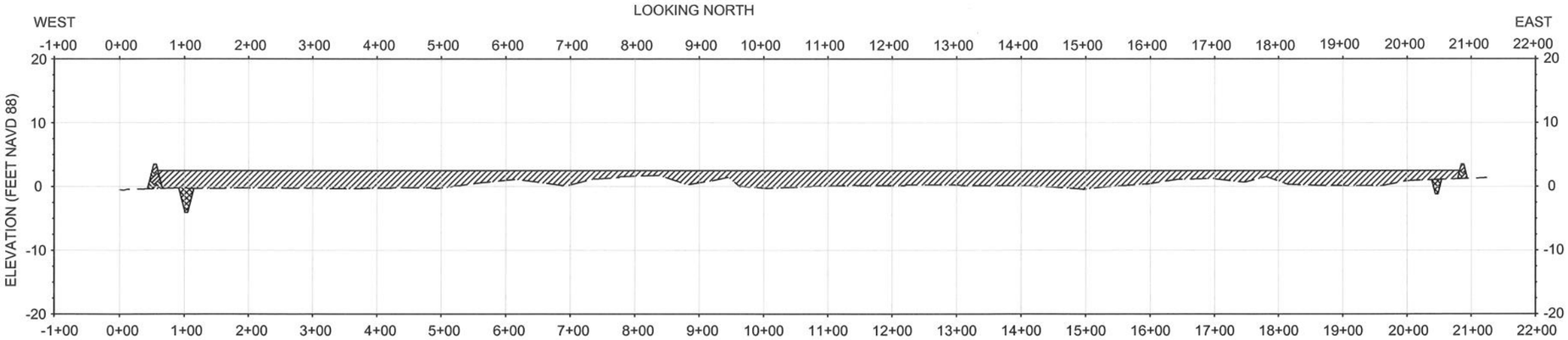
2K PROFILE

FILL AREA 2B
LOOKING NORTH



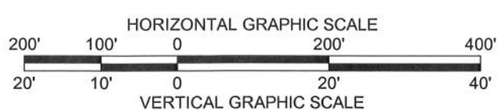
2L PROFILE

FILL AREA 2B
LOOKING NORTH



2M PROFILE

FILL AREA 2B
LOOKING NORTH



LEGEND

- ---- EXISTING BOTTOM
- EARTHEN CONTAINMENT DIKE
- FILL AREA
- BORROW AREA

NOTE:
SEE SHEET 14 FOR ELEVATION OF CONTAINMENT DIKE AND TARGET/MAX. ELEVATION OF MARSH FILL HEIGHT.

REV.	DATE	DESCRIPTION	BY

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

DRAWN BY: SHANE FAUST
DESIGNED BY: JERRY CARROLL, P.E.

NORTH LAKE MECHANT LANDBRIDGE RESTORATION PROJECT

STATE PROJECT NUMBER: TE-44
FEDERAL PROJECT NUMBER: N/A
APPROVED BY: LUKE LE BAS, P.E.

SECTIONS

DATE: JANUARY 2008
SHEET 36 OF 65

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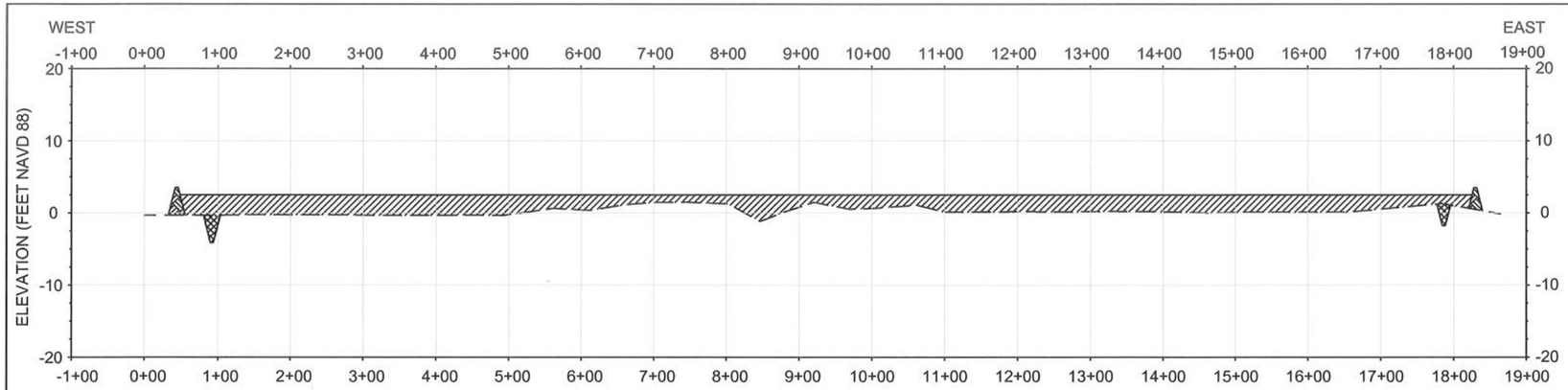
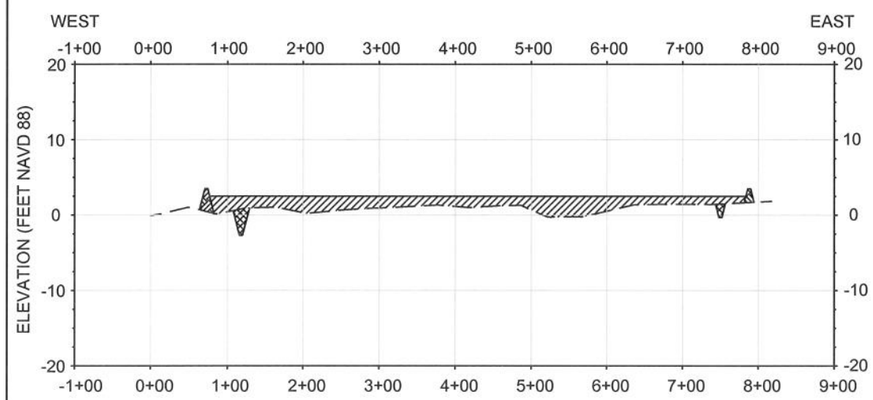


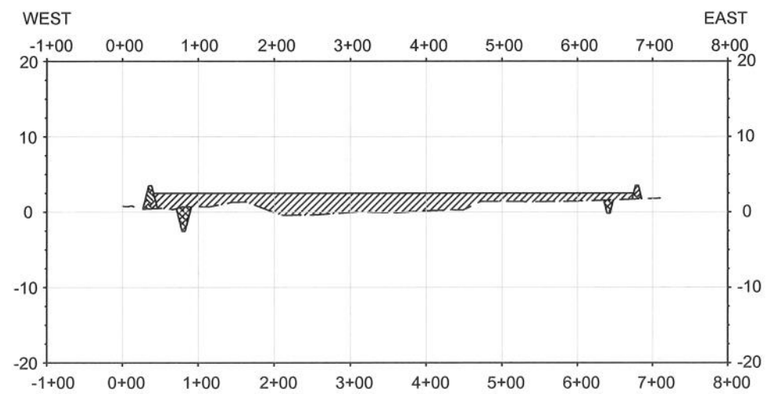
2N PROFILE

FILL AREA 2B
LOOKING NORTH



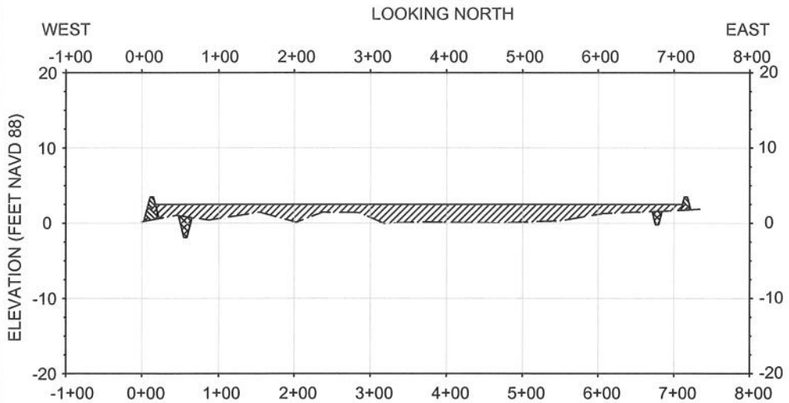
2O PROFILE

FILL AREA 2B
LOOKING NORTH



2P PROFILE

FILL AREA 2B
LOOKING NORTH



2Q PROFILE

FILL AREA 2B
LOOKING NORTH

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

STATE OF LOUISIANA
JERRY S. CARROLL
REG. No. 24418
REGISTERED
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
1-17-08

LEGEND
---- EXISTING BOTTOM
EARTHEN CONTAINMENT DIKE
FILL AREA
BORROW AREA

NOTE:
SEE SHEET 14 FOR ELEVATION OF CONTAINMENT DIKE AND TARGET/MAX. ELEVATION OF MARSH FILL HEIGHT.

REV.	DATE	DESCRIPTION	BY

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

DRAWN BY: SHANE FAUST
DESIGNED BY: JERRY CARROLL, P.E.

NORTH LAKE MECHANT LANDBRIDGE RESTORATION PROJECT

STATE PROJECT NUMBER: TE-44
FEDERAL PROJECT NUMBER: N/A
APPROVED BY: LUKE LE BAS, P.E.

SECTIONS

DATE: JANUARY 2008
SHEET 37 OF 65

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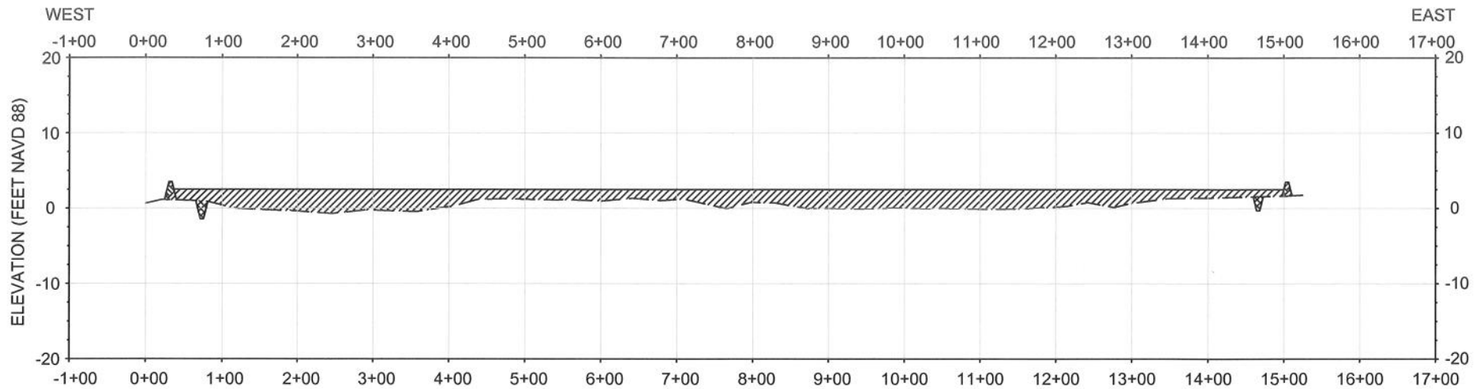
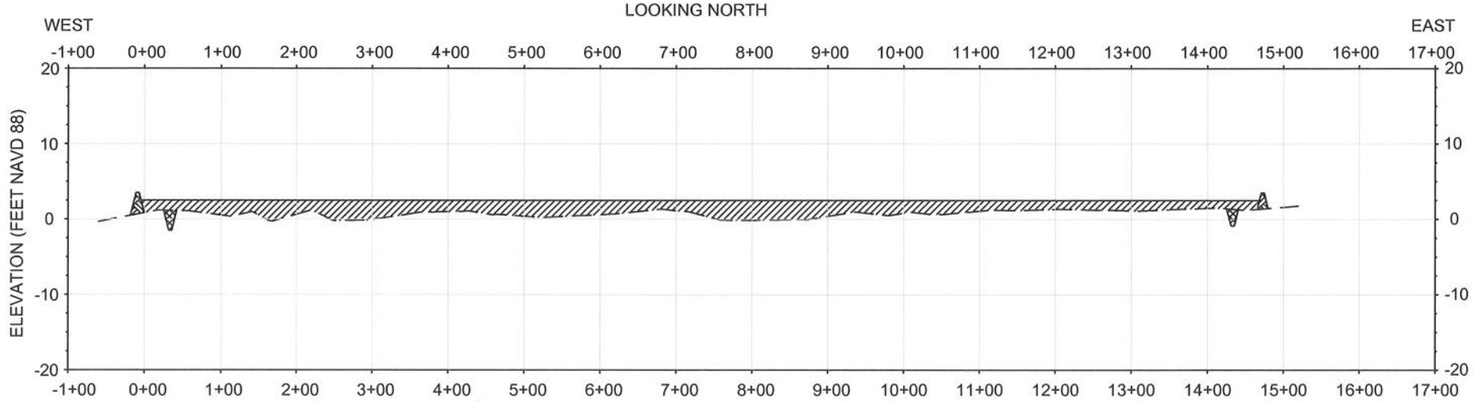


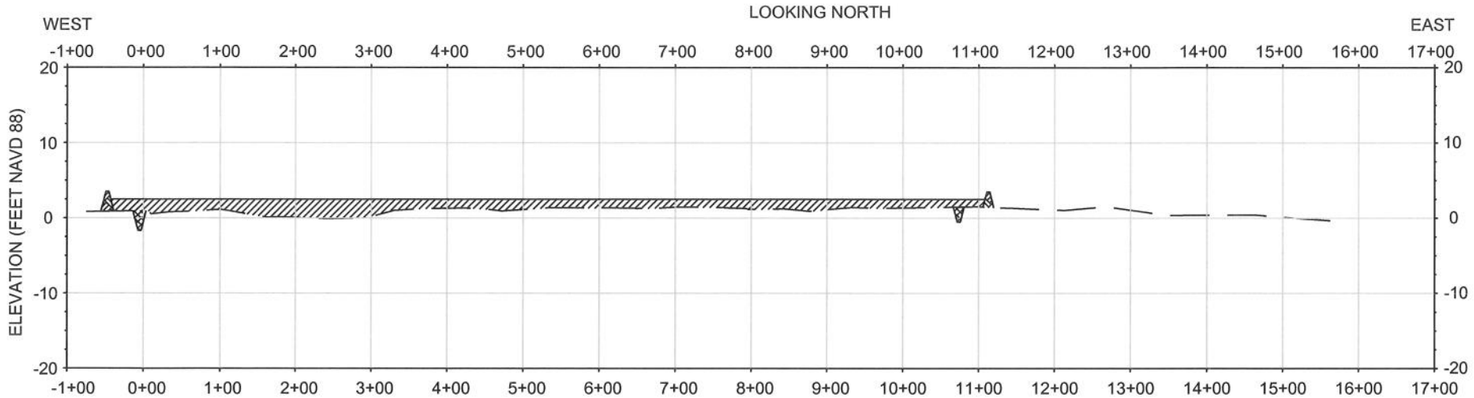
2R PROFILE

FILL AREA 2B
LOOKING NORTH



2S PROFILE

FILL AREA 2B
LOOKING NORTH



2T PROFILE

FILL AREA 2B
LOOKING NORTH

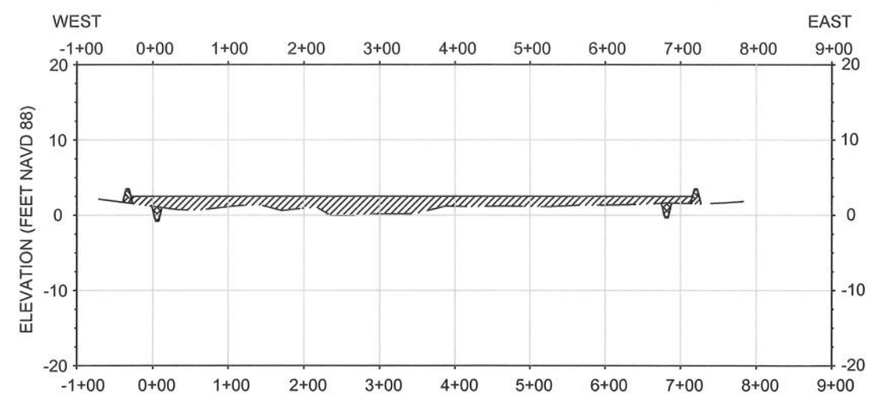
HORIZONTAL GRAPHIC SCALE
200' 100' 0 200' 400'
20' 10' 0 20' 40'
VERTICAL GRAPHIC SCALE

LEGEND

- ---- EXISTING BOTTOM
- EARTHEN CONTAINMENT DIKE
- FILL AREA
- BORROW AREA

NOTE:
SEE SHEET 14 FOR ELEVATION OF CONTAINMENT DIKE AND TARGET/MAX. ELEVATION OF MARSH FILL HEIGHT.

STATE OF LOUISIANA
JERRY S. CARROLL
REG. No. 24418
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING
1-17-08



2U PROFILE

FILL AREA 2B
LOOKING NORTH

REV.	DATE	DESCRIPTION	BY

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

DRAWN BY: SHANE FAUST
DESIGNED BY: JERRY CARROLL, P.E.

NORTH LAKE MECHANT LANDBRIDGE RESTORATION PROJECT
STATE PROJECT NUMBER: TE-44
FEDERAL PROJECT NUMBER: N/A
APPROVED BY: LUKE LE BAS, P.E.

SECTIONS
DATE: JANUARY 2008
SHEET 38 OF 65

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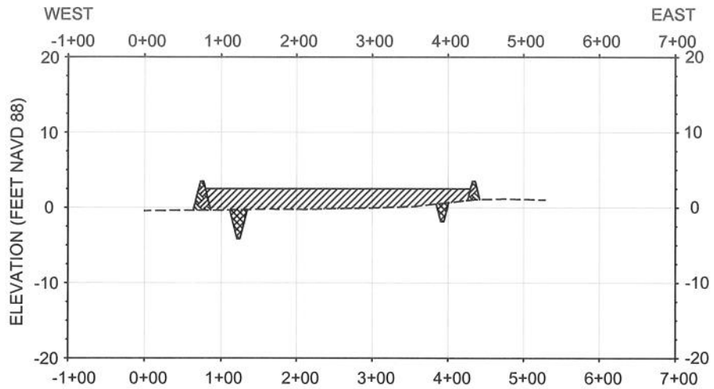
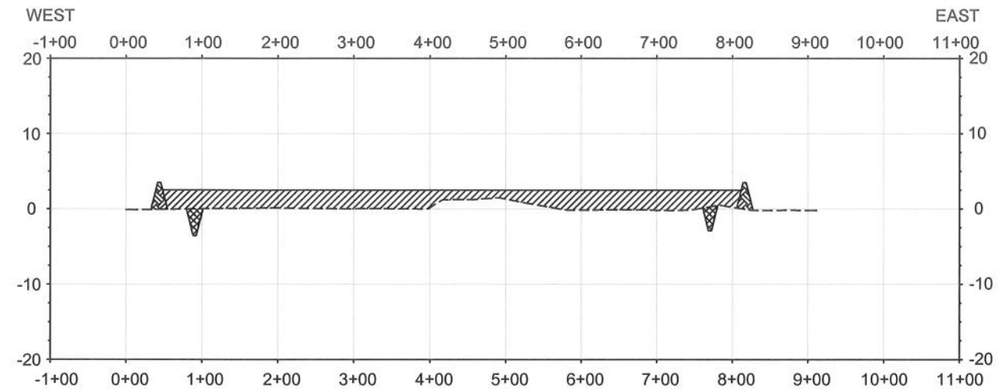


3A PROFILE
LOOKING NORTH

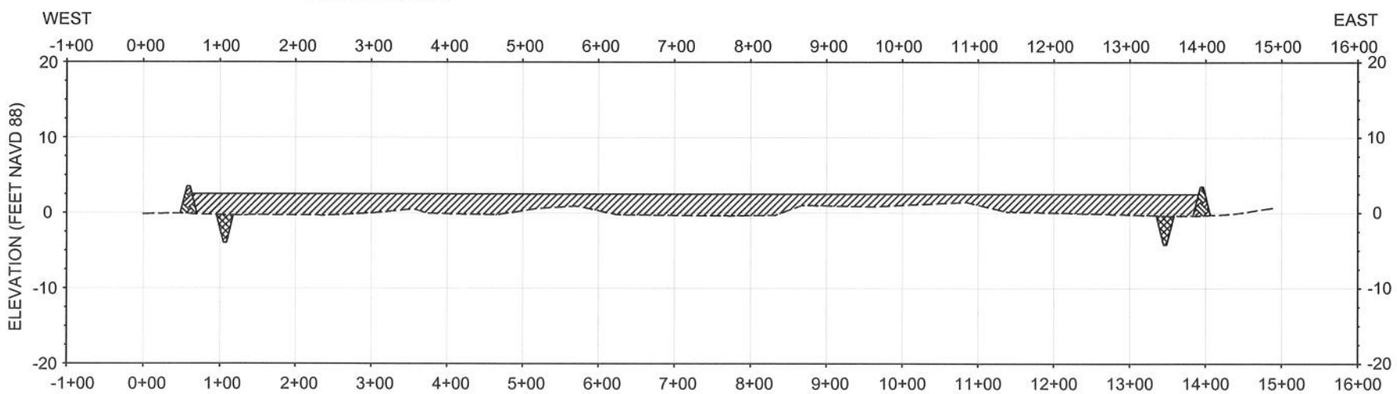


3B PROFILE
LOOKING NORTH

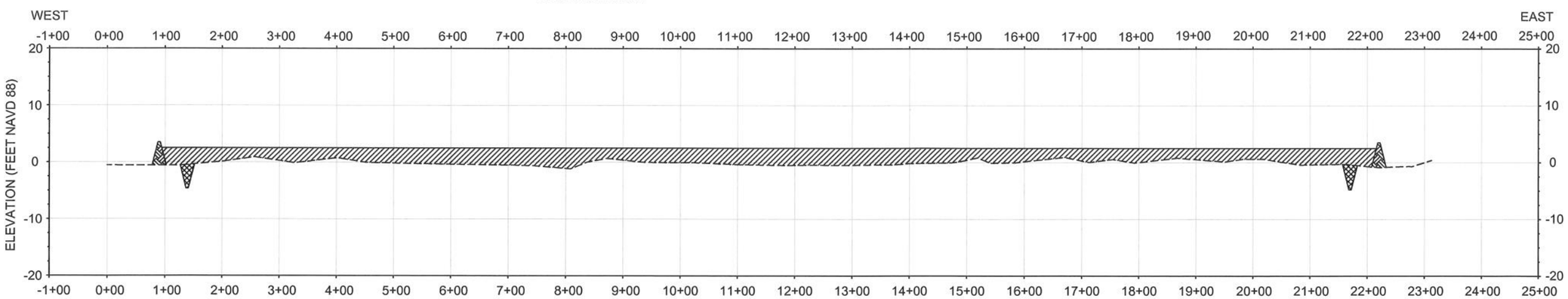
LEGEND

- ------ EXISTING BOTTOM
- EARTHEN CONTAINMENT DIKE
- FILL AREA
- BORROW AREA

NOTE:
SEE SHEET 14 FOR ELEVATION OF CONTAINMENT DIKE AND TARGET/MAX. ELEVATION OF MARSH FILL HEIGHT.



3C PROFILE
LOOKING NORTH



3D PROFILE
LOOKING NORTH

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

REV.	DATE	DESCRIPTION	BY

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

DRAWN BY: SHANE FAUST
DESIGNED BY: JERRY CARROLL, P.E.

NORTH LAKE MECHANT LANDBRIDGE RESTORATION PROJECT

STATE PROJECT NUMBER: TE-44
FEDERAL PROJECT NUMBER: N/A
APPROVED BY: LUKE LE BAS, P.E.

SECTIONS

DATE: JANUARY 2008
SHEET 39 OF 65

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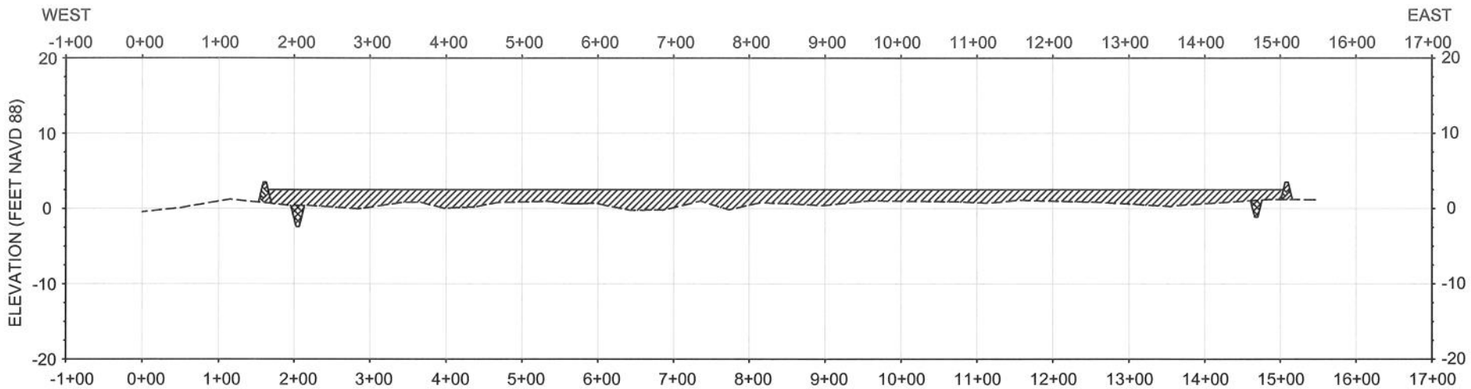
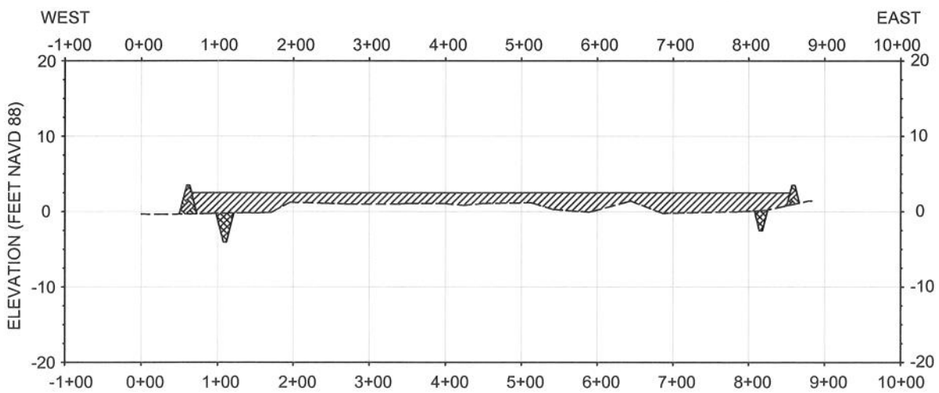
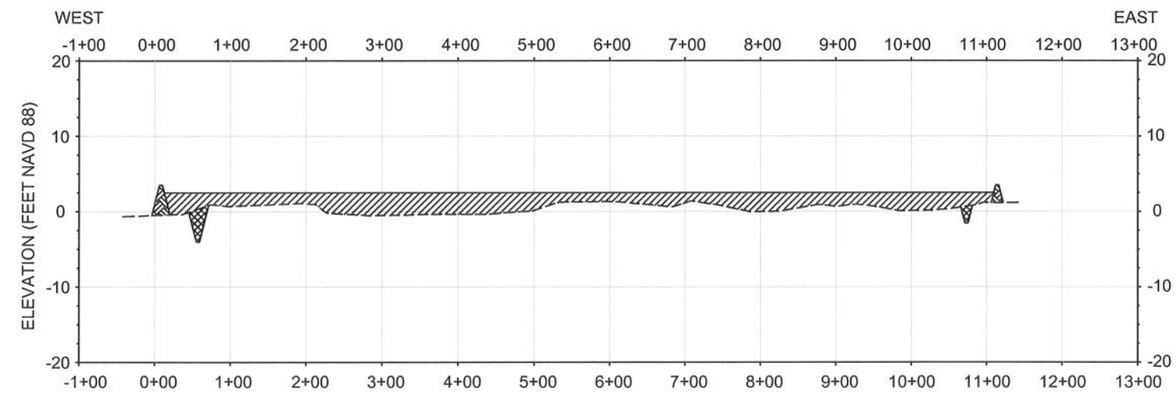


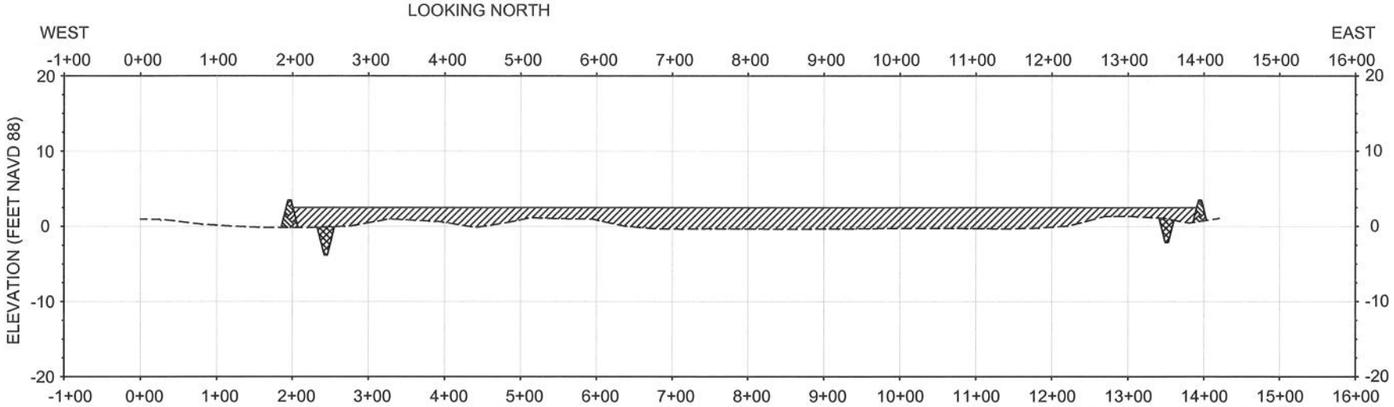
3E PROFILE
LOOKING NORTH





3G PROFILE
LOOKING NORTH

3F PROFILE
LOOKING NORTH



STATE OF LOUISIANA
JERRY S. CARROLL
REG. No. 24418
REGISTERED
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
1-17-08

LEGEND	
------	EXISTING BOTTOM
	EARTHEN CONTAINMENT DIKE
	FILL AREA
	BORROW AREA

NOTE:
SEE SHEET 14 FOR ELEVATION OF CONTAINMENT DIKE AND TARGET/MAX. ELEVATION OF MARSH FILL HEIGHT.

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

3H PROFILE
LOOKING NORTH

REV.	DATE	DESCRIPTION	BY

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

DRAWN BY: SHANE FAUST
DESIGNED BY: JERRY CARROLL, P.E.

NORTH LAKE MECHANT LANDBRIDGE RESTORATION PROJECT

STATE PROJECT NUMBER: TE-44
FEDERAL PROJECT NUMBER: N/A
APPROVED BY: LUKE LE BAS, P.E.

SECTIONS

DATE: JANUARY 2008
SHEET 40 OF 65

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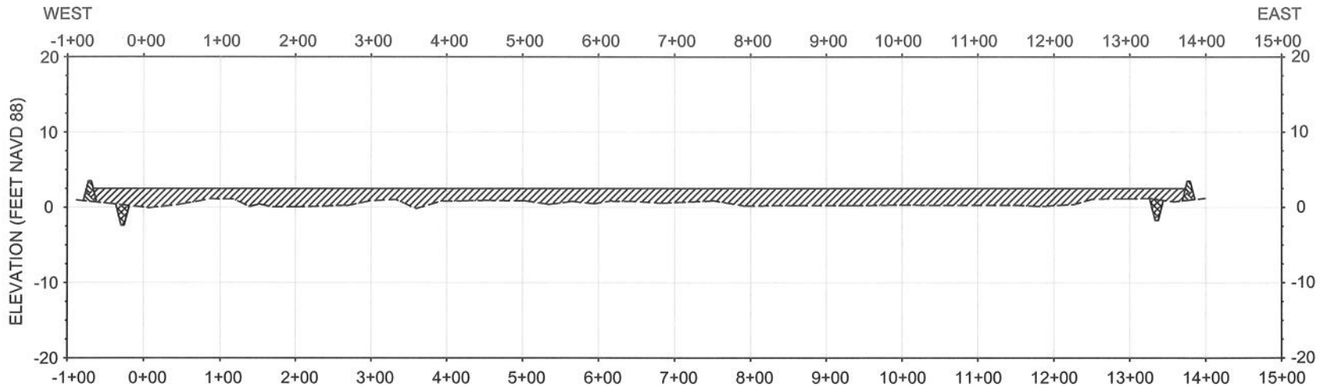
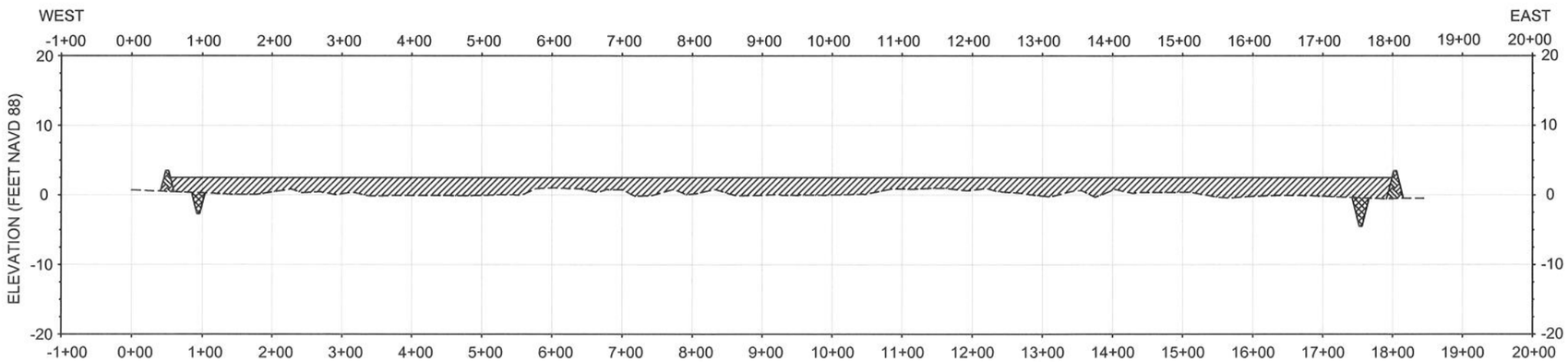
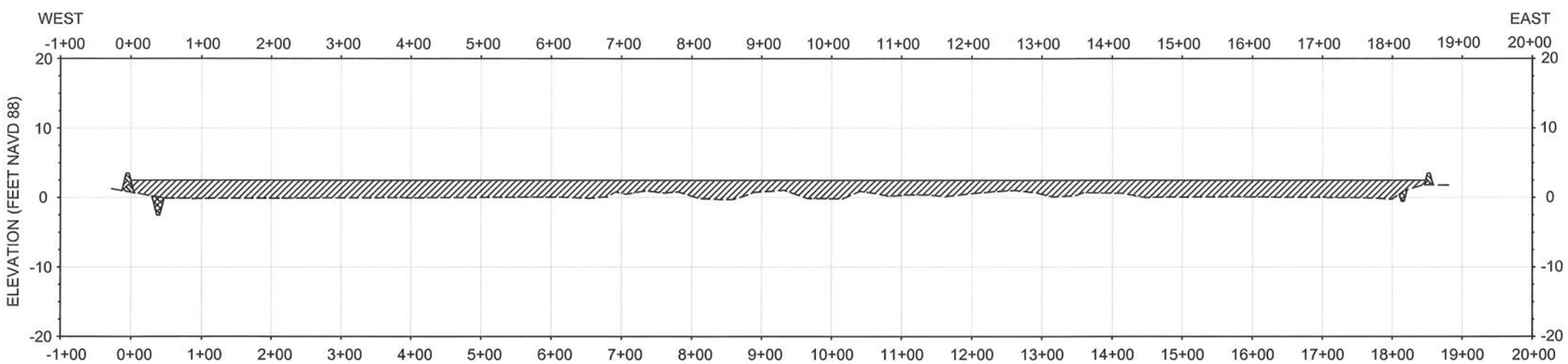


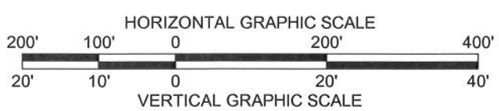
3I PROFILE
LOOKING NORTH



3J PROFILE
LOOKING NORTH



3K PROFILE
LOOKING NORTH



STATE OF LOUISIANA
JERRY S. CARROLL
REG. No. 24418
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING
1-17-08

LEGEND
------- EXISTING BOTTOM
EARTHEN CONTAINMENT DIKE
FILL AREA
BORROW AREA

NOTE:
SEE SHEET 14 FOR ELEVATION OF CONTAINMENT DIKE AND TARGET/MAX. ELEVATION OF MARSH FILL HEIGHT.

REV.	DATE	DESCRIPTION	BY

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

DRAWN BY: SHANE FAUST
DESIGNED BY: JERRY CARROLL, P.E.

NORTH LAKE MECHANT LANDBRIDGE RESTORATION PROJECT
STATE PROJECT NUMBER: TE-44
FEDERAL PROJECT NUMBER: N/A
APPROVED BY: LUKE LE BAS, P.E.

SECTIONS
DATE: JANUARY 2008
SHEET 41 OF 65

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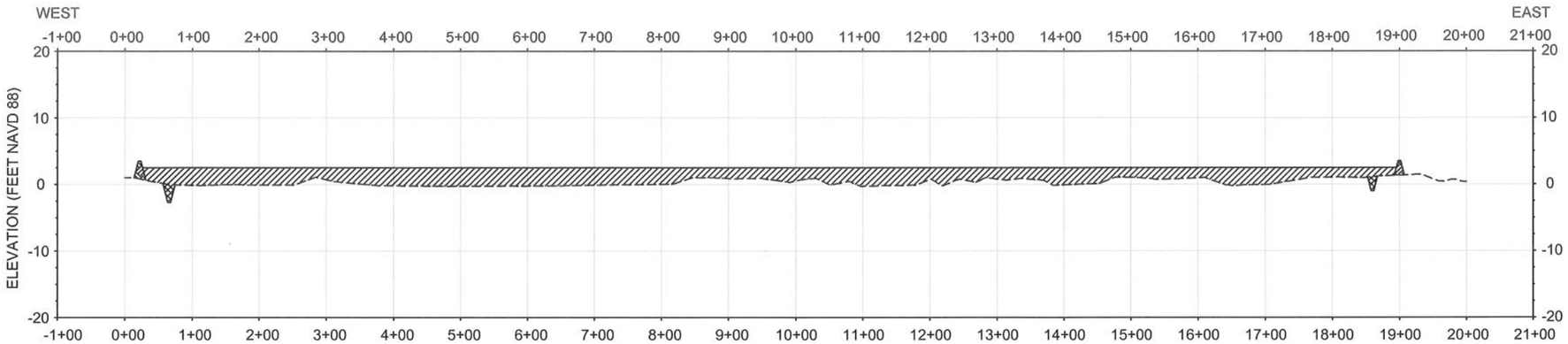

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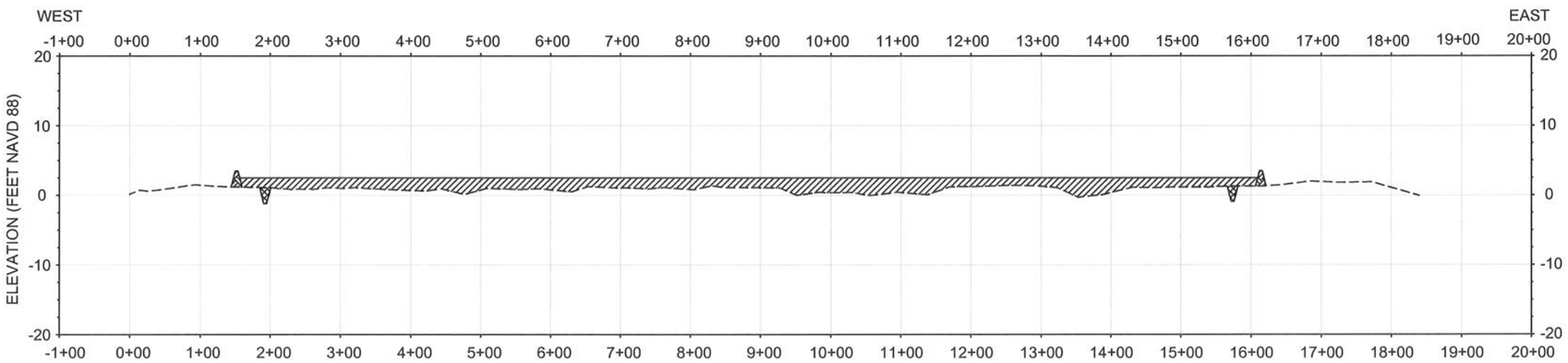
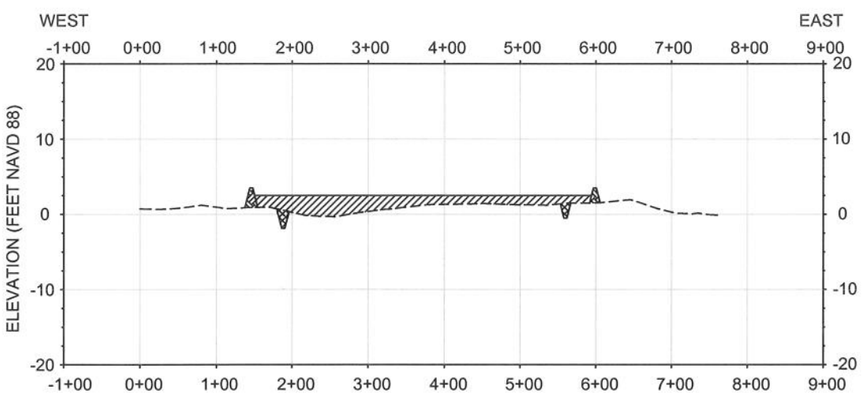
LOOKING NORTH



3M PROFILE
LOOKING NORTH



3N PROFILE
LOOKING NORTH

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

STATE OF LOUISIANA
JERRY S. CARROLL
REG. No. 24418
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING
1-17-08

LEGEND
------- EXISTING BOTTOM
EARTHEN CONTAINMENT DIKE
FILL AREA
BORROW AREA

NOTE:
SEE SHEET 14 FOR ELEVATION OF CONTAINMENT DIKE AND TARGET/MAX. ELEVATION OF MARSH FILL HEIGHT.

REV.	DATE	DESCRIPTION	BY

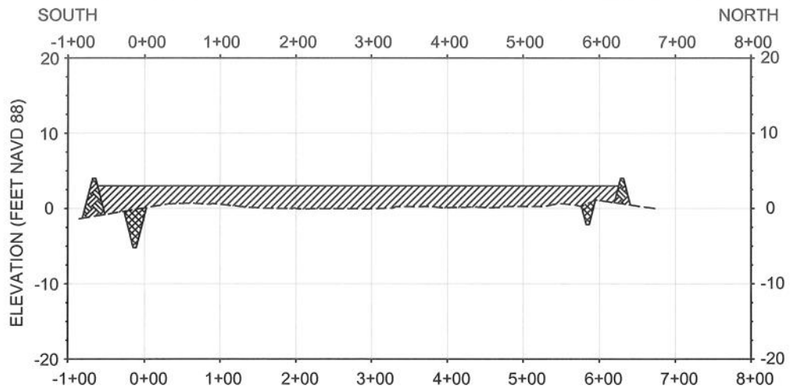
LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

DRAWN BY: SHANE FAUST
DESIGNED BY: JERRY CARROLL, P.E.

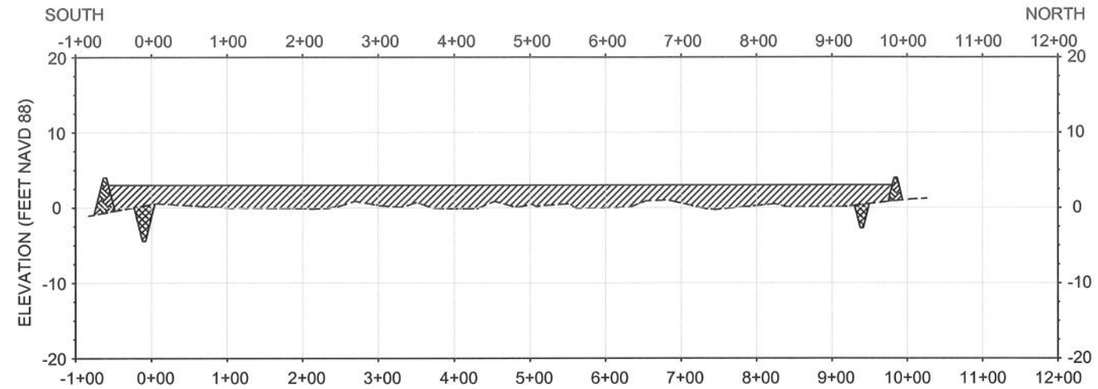
NORTH LAKE MECHANT LANDBRIDGE RESTORATION PROJECT
STATE PROJECT NUMBER: TE-44
FEDERAL PROJECT NUMBER: N/A
APPROVED BY: LUKE LE BAS, P.E.

SECTIONS
DATE: JANUARY 2008
SHEET 42 OF 65

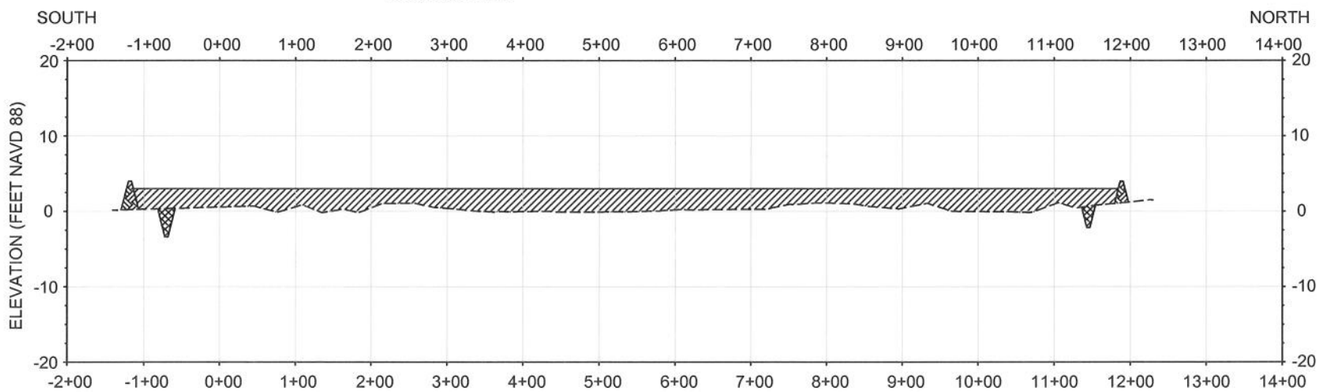
G:\Users\Autocad\BASINS\TE\TE-44 Lake Mechant\Final Plan Set\2007 revisons\C39-42 Sections (3).dwg



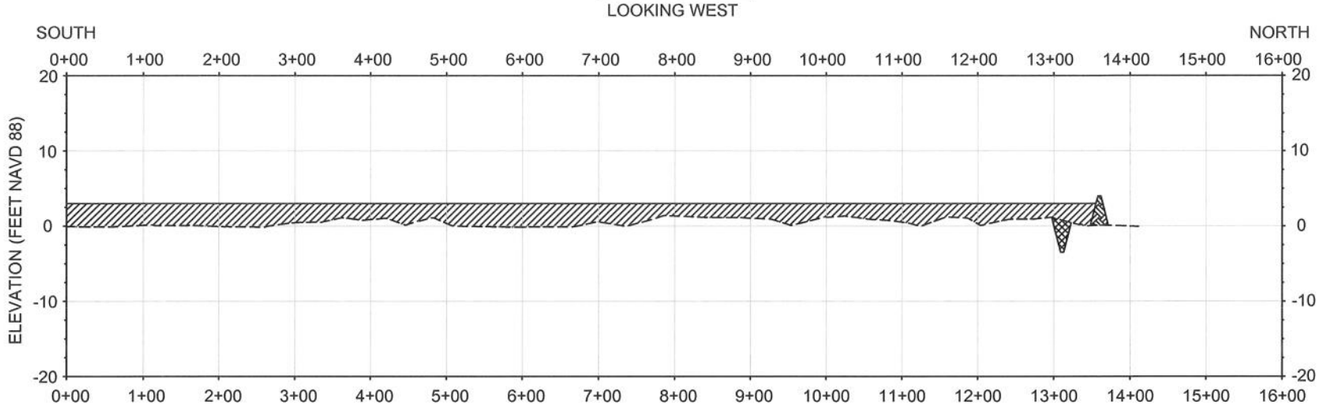
4A PROFILE
LOOKING WEST



4B PROFILE
LOOKING WEST



4C PROFILE
LOOKING WEST



4D PROFILE
LOOKING WEST

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

STATE OF LOUISIANA
JERRY S. CARROLL
REG. No. 24418
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING
1-17-08

LEGEND	
------	EXISTING BOTTOM
	EARTHEN CONTAINMENT DIKE
	FILL AREA
	BORROW AREA

NOTE:
SEE SHEET 14 FOR ELEVATION OF CONTAINMENT DIKE AND TARGET/MAX. ELEVATION OF MARSH FILL HEIGHT.

REV.	DATE	DESCRIPTION	BY

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

DRAWN BY: SHANE FAUST
DESIGNED BY: JERRY CARROLL, P.E.

NORTH LAKE MECHANT LANDBRIDGE RESTORATION PROJECT
STATE PROJECT NUMBER: TE-44
FEDERAL PROJECT NUMBER: N/A
APPROVED BY: LUKE LE BAS, P.E.

SECTIONS
DATE: JANUARY 2008
SHEET 43 OF 65

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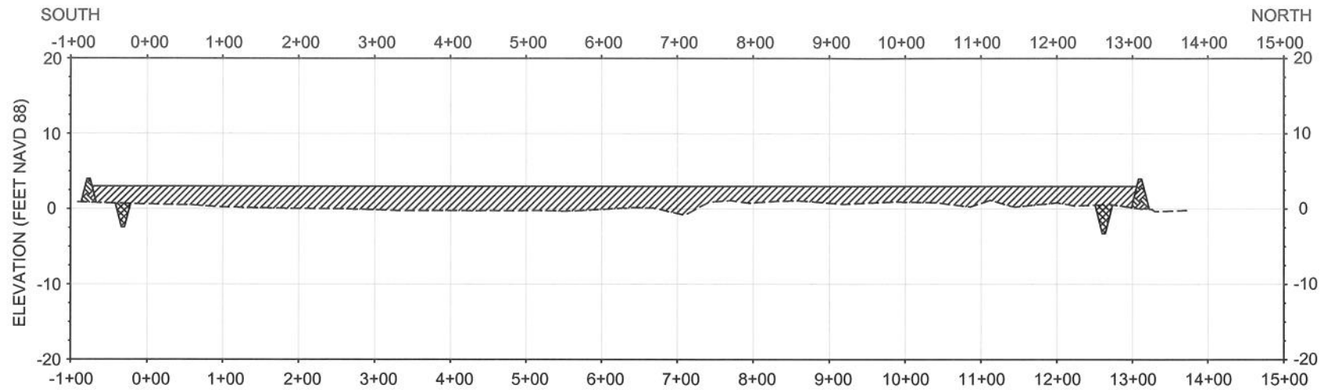
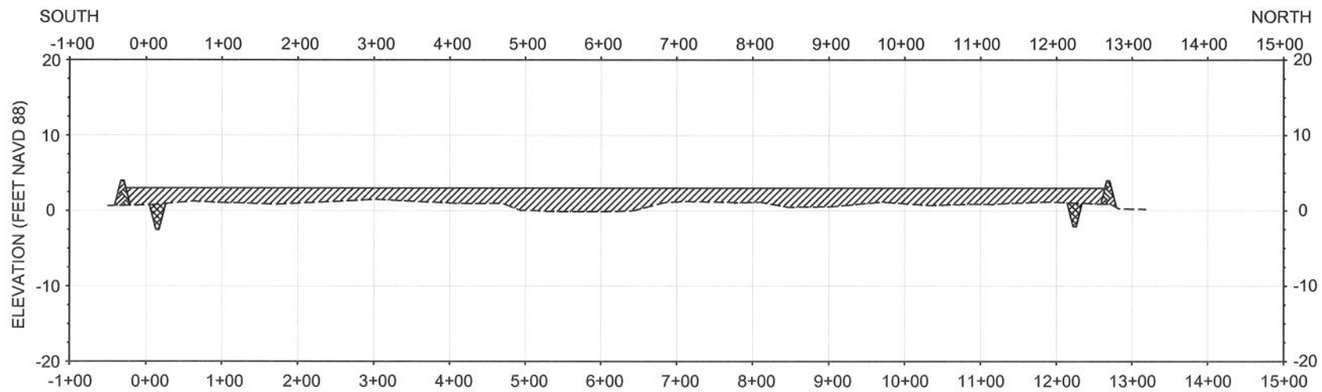
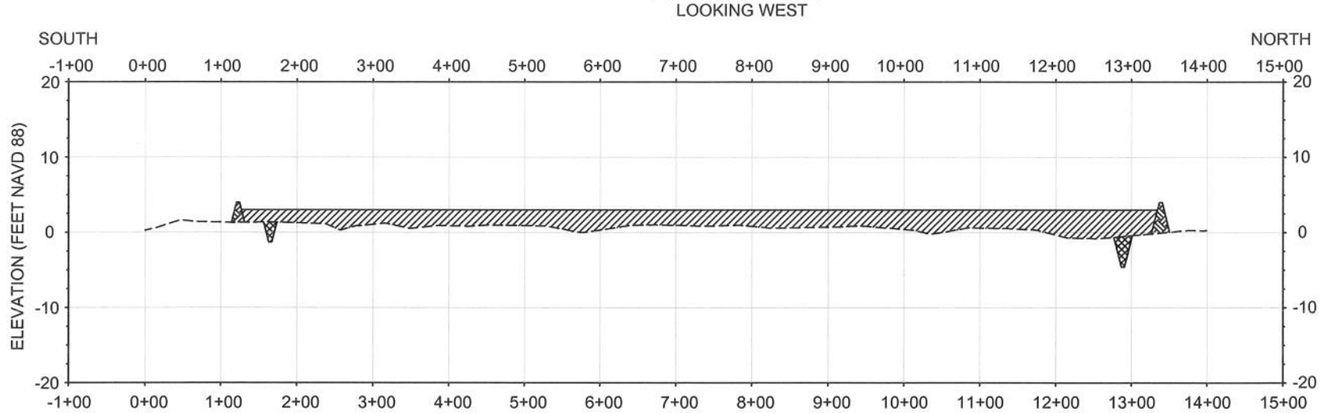


4E PROFILE
LOOKING WEST



4F PROFILE
LOOKING WEST



4G PROFILE
LOOKING WEST

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

STATE OF LOUISIANA
JERRY S. CARROLL
REG. No. 24418
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING
1-17-08

LEGEND

- ------ EXISTING BOTTOM
- EARTHEN CONTAINMENT DIKE
- FILL AREA
- BORROW AREA

NOTE:
SEE SHEET 14 FOR ELEVATION OF CONTAINMENT DIKE AND TARGET/MAX. ELEVATION OF MARSH FILL HEIGHT.

REV.	DATE	DESCRIPTION	BY

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

DRAWN BY: SHANE FAUST
DESIGNED BY: JERRY CARROLL, P.E.

NORTH LAKE MECHANT LANDBRIDGE RESTORATION PROJECT

STATE PROJECT NUMBER: TE-44
FEDERAL PROJECT NUMBER: N/A
APPROVED BY: LUKE LE BAS, P.E.

SECTIONS

DATE: JANUARY 2008
SHEET 44 OF 65

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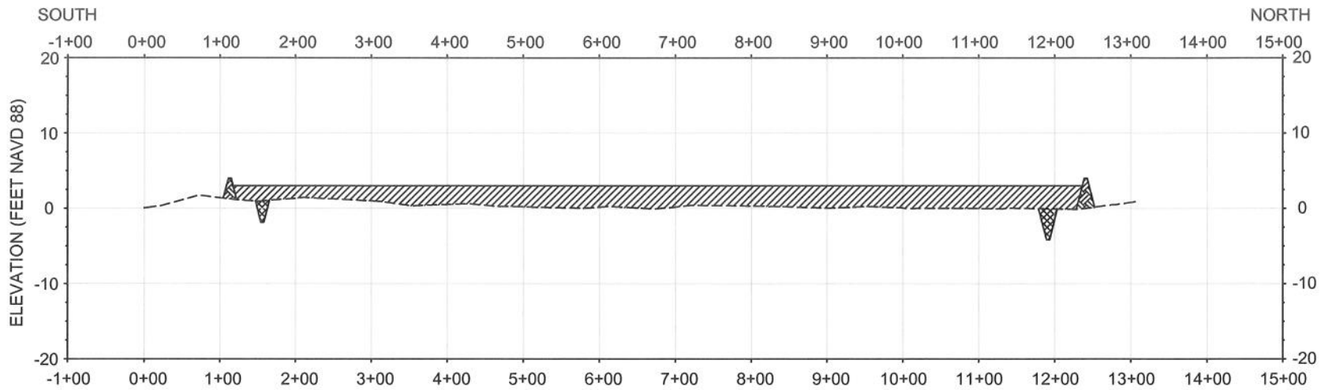
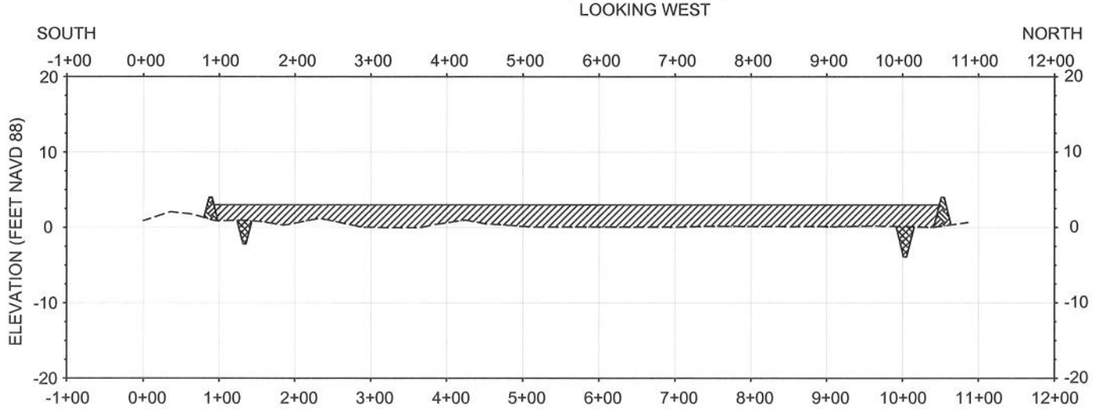


4H PROFILE
LOOKING WEST

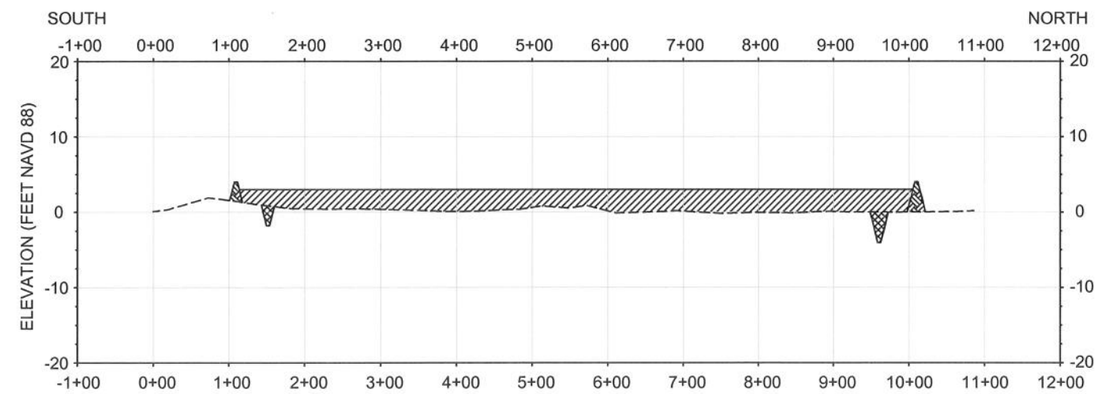
LEGEND
------ EXISTING BOTTOM
EARTHEN CONTAINMENT DIKE
FILL AREA
BORROW AREA

STATE OF LOUISIANA
JERRY S. CARROLL
REG. No. 24418
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING
1-17-08

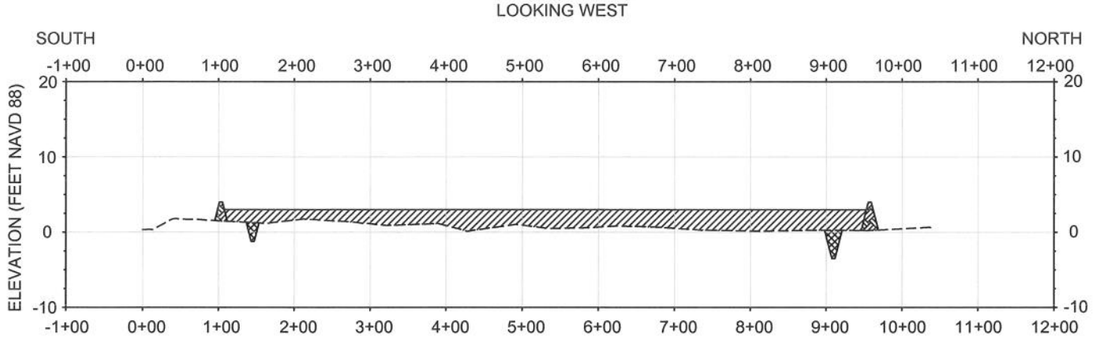
NOTE:
SEE SHEET 14 FOR ELEVATION OF CONTAINMENT DIKE AND TARGET/MAX. ELEVATION OF MARSH FILL HEIGHT.



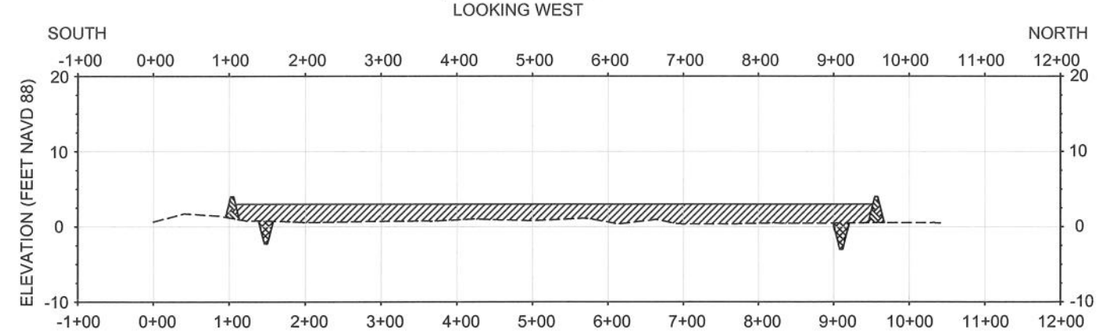
4I PROFILE
LOOKING WEST



4J PROFILE
LOOKING WEST



4K PROFILE
LOOKING WEST



4L PROFILE
LOOKING WEST

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

REV.	DATE	DESCRIPTION	BY

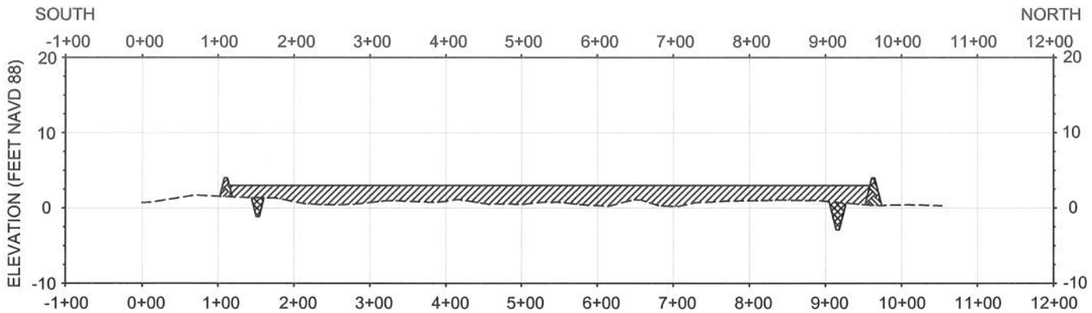
LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

DRAWN BY: SHANE FAUST
DESIGNED BY: JERRY CARROLL, P.E.

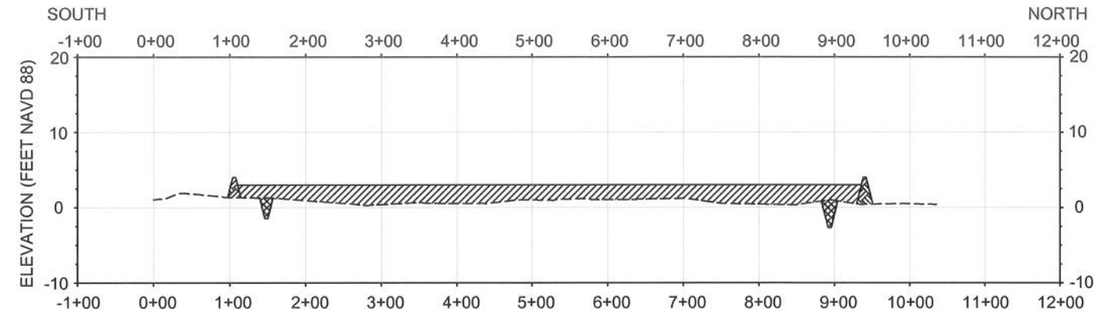
NORTH LAKE MECHANT LANDBRIDGE RESTORATION PROJECT
STATE PROJECT NUMBER: TE-44
FEDERAL PROJECT NUMBER: N/A
APPROVED BY: LUKE LE BAS, P.E.

SECTIONS
DATE: JANUARY 2008
SHEET 45 OF 65

G:\Users\Autocad\BASINS\TE\TE-44 Lake Mechant\Final Plan Set\2007 revisons\C43-46 Sections (4).dwg



4M PROFILE
LOOKING WEST



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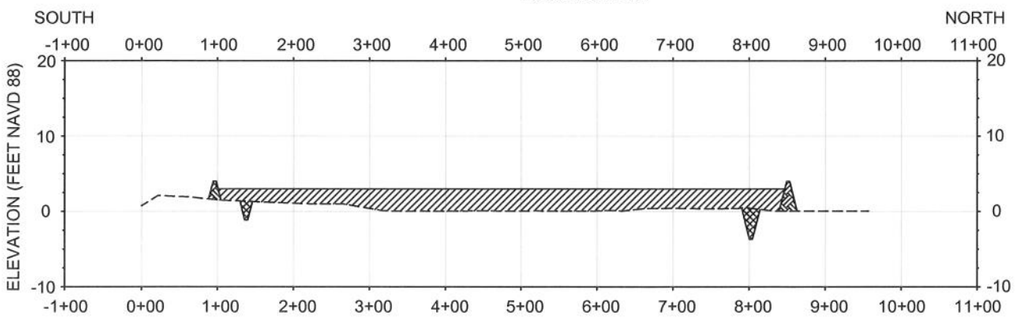

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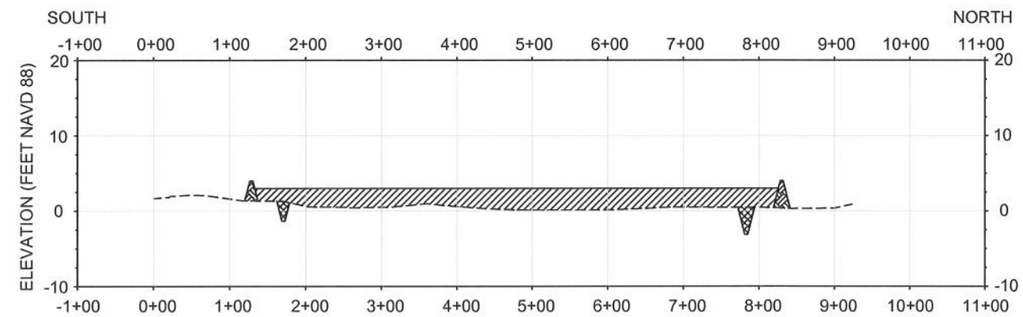

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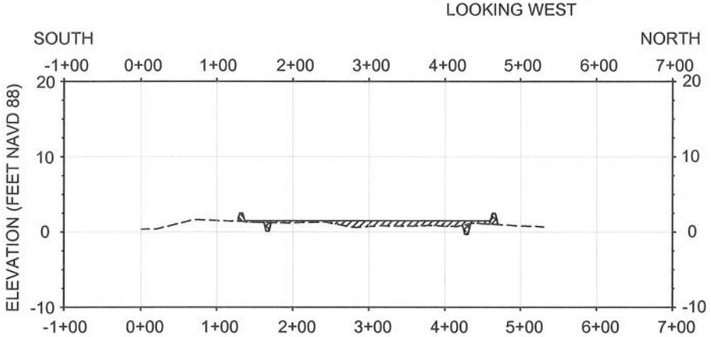

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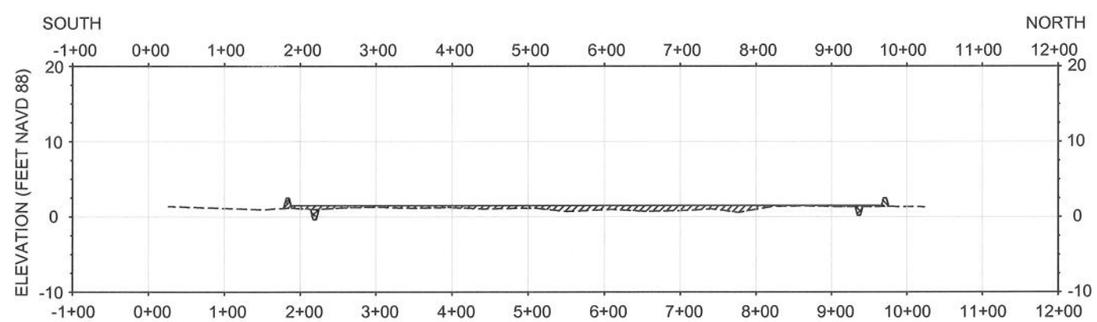

4R PROFILE
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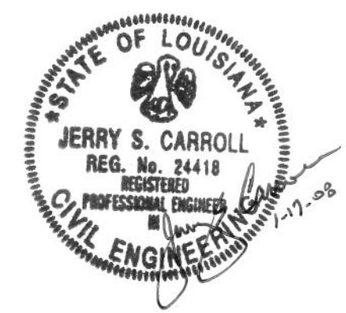


LEGEND
------ EXISTING BOTTOM
EARTHEN CONTAINMENT DIKE
FILL AREA
BORROW AREA

NOTE:
SEE SHEET 14 FOR ELEVATION OF CONTAINMENT DIKE AND TARGET/MAX. ELEVATION OF MARSH FILL HEIGHT.

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

REV.	DATE	DESCRIPTION	BY

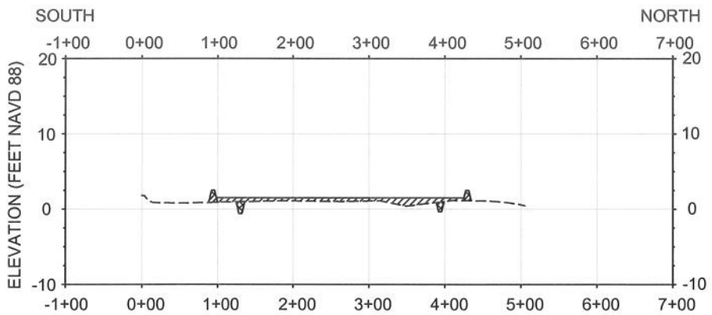
LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

DRAWN BY: SHANE FAUST
DESIGNED BY: JERRY CARROLL, P.E.

NORTH LAKE MECHANT LANDBRIDGE RESTORATION PROJECT
STATE PROJECT NUMBER: TE-44
FEDERAL PROJECT NUMBER: N/A
APPROVED BY: LUKE LE BAS, P.E.

SECTIONS
DATE: JANUARY 2008
SHEET 46 OF 65

G:\Users\Autocad\BASINS\TE\TE-44 Lake Mechant\Final Plan Set\2007 revisons\C43-46 Sections (4).dwg



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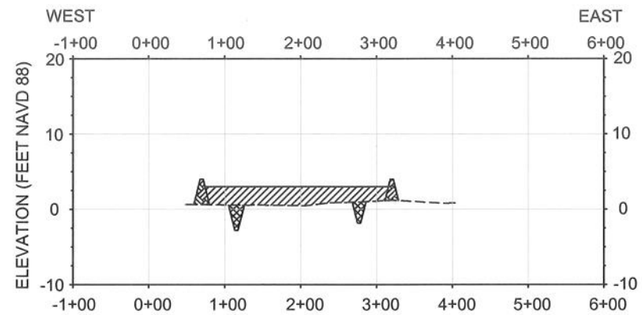
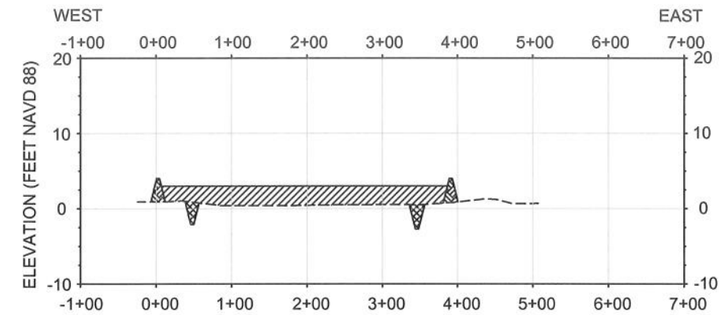
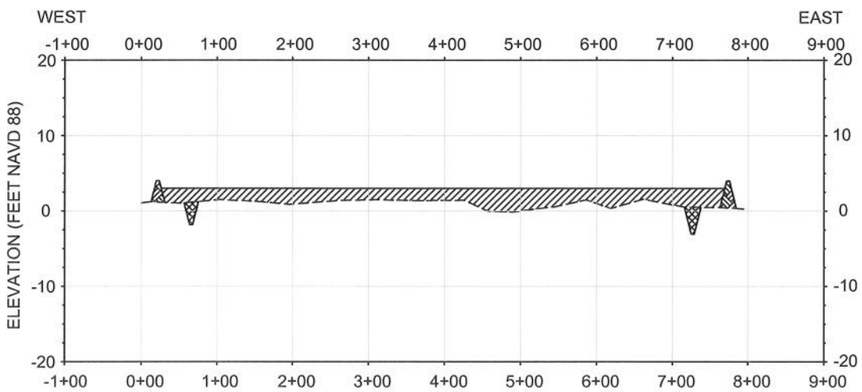
LOOKING WEST



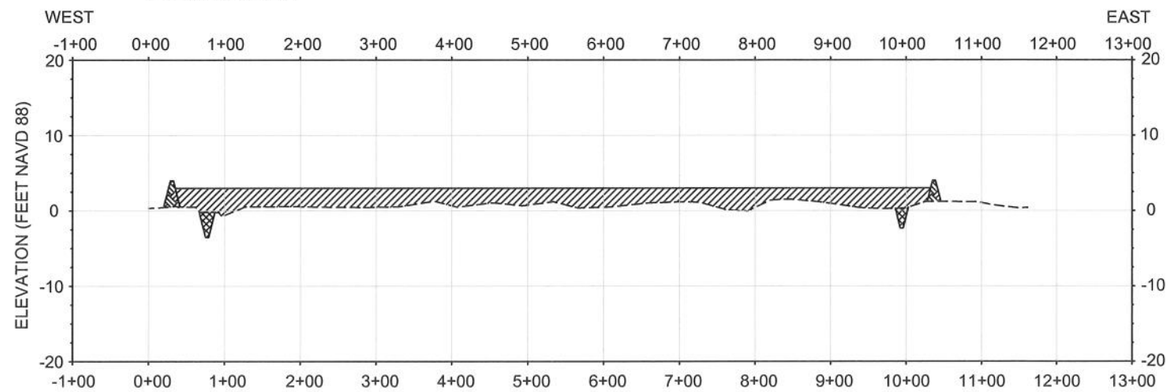
5A PROFILE
LOOKING NORTH



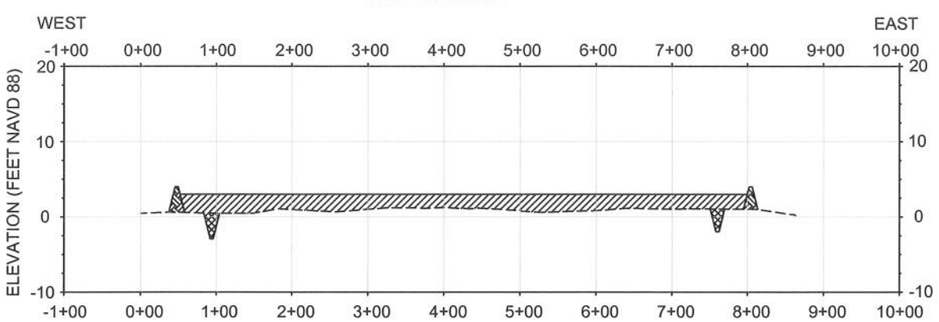
5B PROFILE
LOOKING NORTH



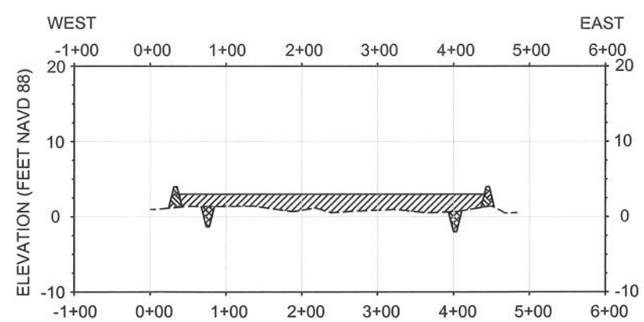
5C PROFILE
LOOKING NORTH



5D PROFILE
LOOKING NORTH



5E PROFILE
LOOKING NORTH



5F PROFILE
LOOKING NORTH

STATE OF LOUISIANA
JERRY S. CARROLL
REG. No. 24418
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING
1-17-08

LEGEND

- ------ EXISTING BOTTOM
- EARTHEN CONTAINMENT DIKE
- FILL AREA
- BORROW AREA

NOTE:
SEE SHEET 14 FOR ELEVATION OF CONTAINMENT DIKE AND TARGET/MAX. ELEVATION OF MARSH FILL HEIGHT.

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

REV.	DATE	DESCRIPTION	BY

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

DRAWN BY: SHANE FAUST
DESIGNED BY: JERRY CARROLL, P.E.

NORTH LAKE MECHANT LANDBRIDGE RESTORATION PROJECT
STATE PROJECT NUMBER: TE-44
FEDERAL PROJECT NUMBER: N/A
APPROVED BY: LUKE LE BAS, P.E.

SECTIONS
DATE: JANUARY 2008
SHEET 47 OF 64

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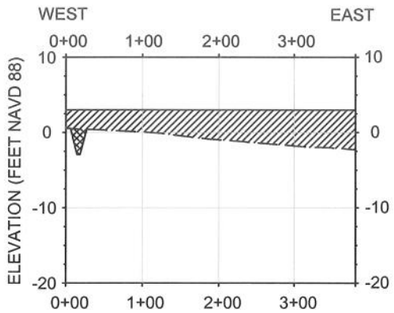
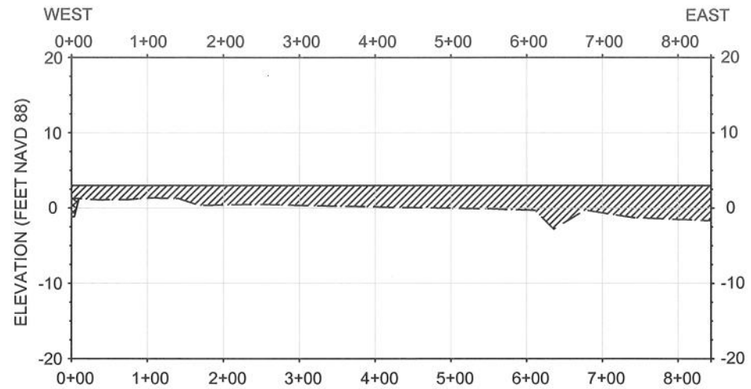
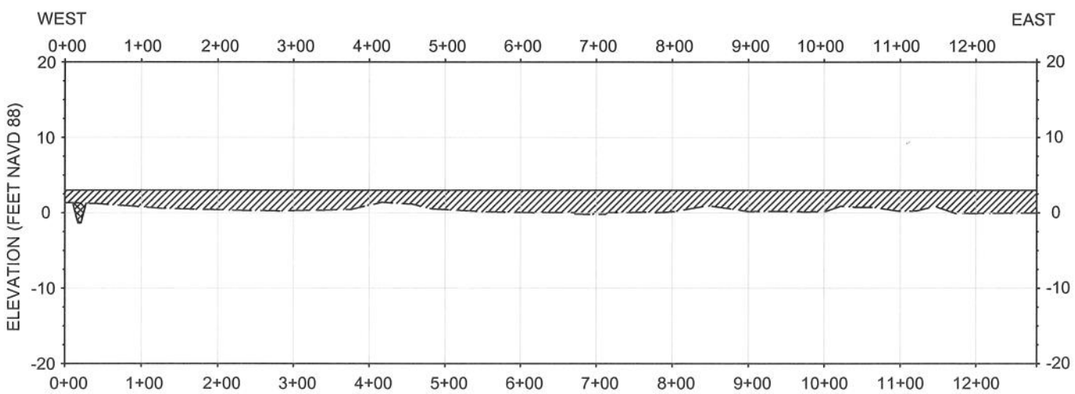


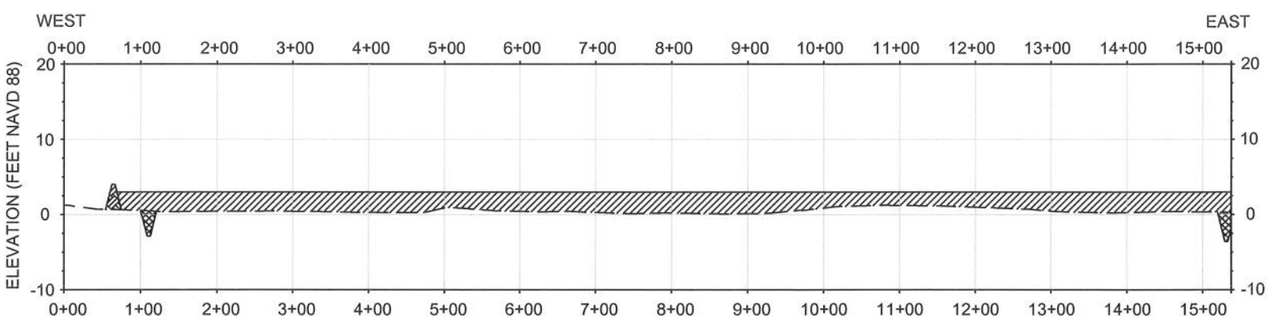
6A PROFILE



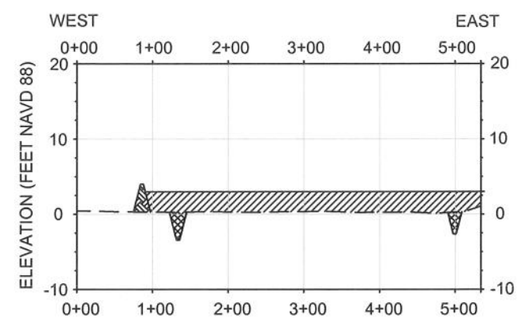
6B PROFILE



6C PROFILE



6D PROFILE



6E PROFILE

LEGEND

- EXISTING BOTTOM
- EARTHEN CONTAINMENT DIKE
- FILL AREA
- BORROW AREA

NOTE:
SEE SHEET 14 FOR ELEVATION OF CONTAINMENT DIKE AND TARGET/MAX. ELEVATION OF MARSH FILL HEIGHT.

STATE OF LOUISIANA
JERRY S. CARROLL
REG. No. 24418
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING

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

REV.	DATE	DESCRIPTION	BY

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

DRAWN BY: SHANE FAUST
DESIGNED BY: JERRY CARROLL, P.E.

NORTH LAKE MECHANT LANDBRIDGE RESTORATION PROJECT

STATE PROJECT NUMBER: TE-44
FEDERAL PROJECT NUMBER: N/A
APPROVED BY: LUKE LE BAS, P.E.

SECTIONS

DATE: JANUARY 2008
SHEET 48 OF 65

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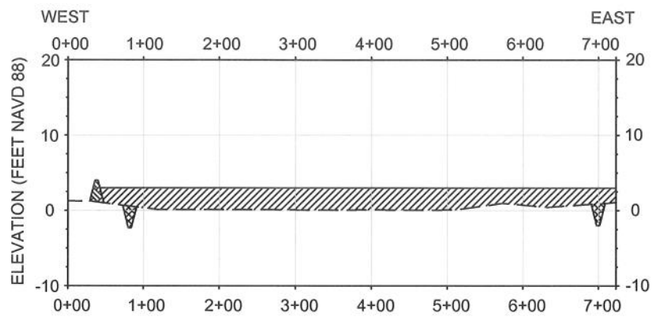
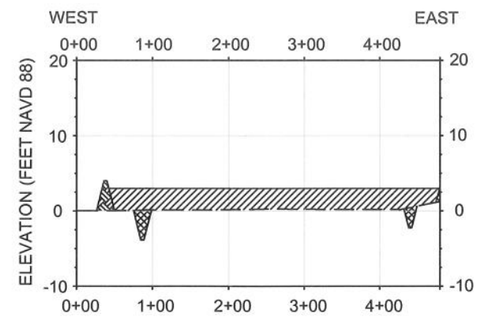
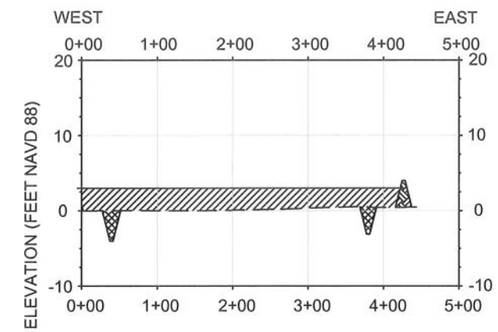


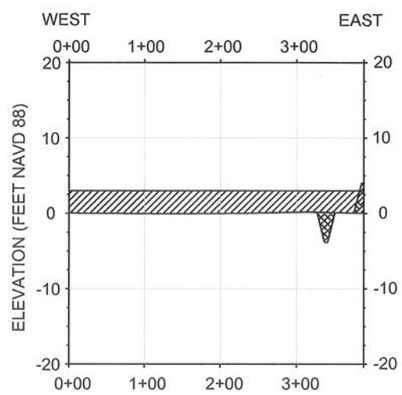
6F PROFILE



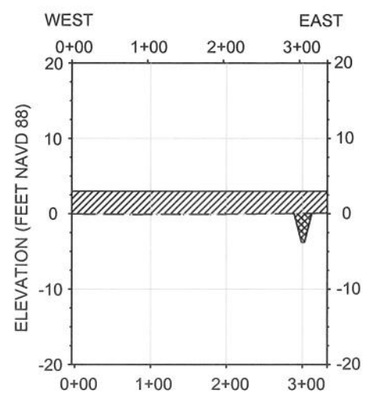
6G PROFILE



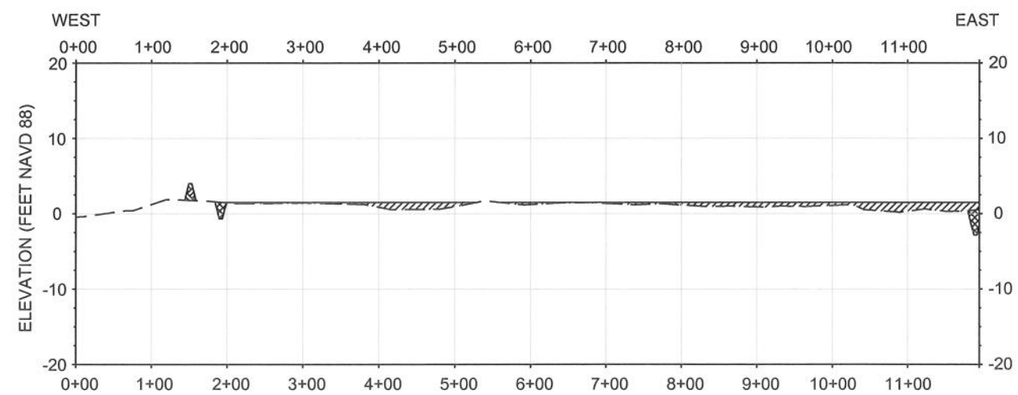
6H PROFILE



6I PROFILE



6J PROFILE



6K PROFILE

STATE OF LOUISIANA
JERRY S. CARROLL
REG. No. 24418
REGISTERED
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
1-17-08

LEGEND
------- EXISTING BOTTOM
EARTHEN CONTAINMENT DIKE
FILL AREA
BORROW AREA

NOTE:
SEE SHEET 14 FOR ELEVATION OF CONTAINMENT DIKE AND TARGET/MAX. ELEVATION OF MARSH FILL HEIGHT.

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

REV.	DATE	DESCRIPTION	BY

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

DRAWN BY: SHANE FAUST
DESIGNED BY: JERRY CARROLL, P.E.

NORTH LAKE MECHANT LANDBRIDGE RESTORATION PROJECT
STATE PROJECT NUMBER: TE-44
FEDERAL PROJECT NUMBER: N/A
APPROVED BY: LUKE LE BAS, P.E.

SECTIONS
DATE: JANUARY 2008
SHEET 49 OF 65

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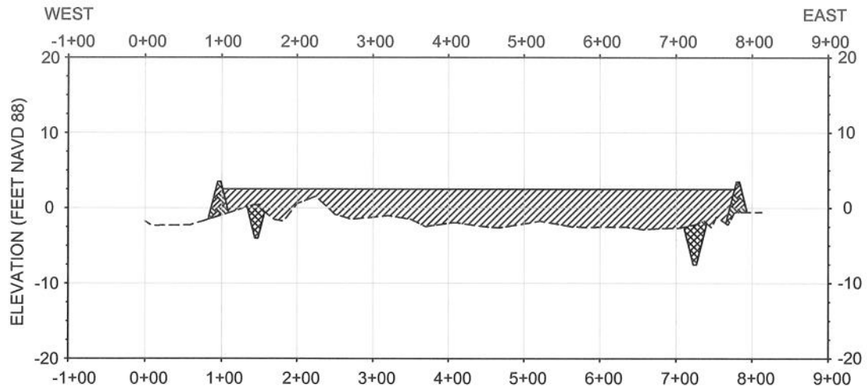
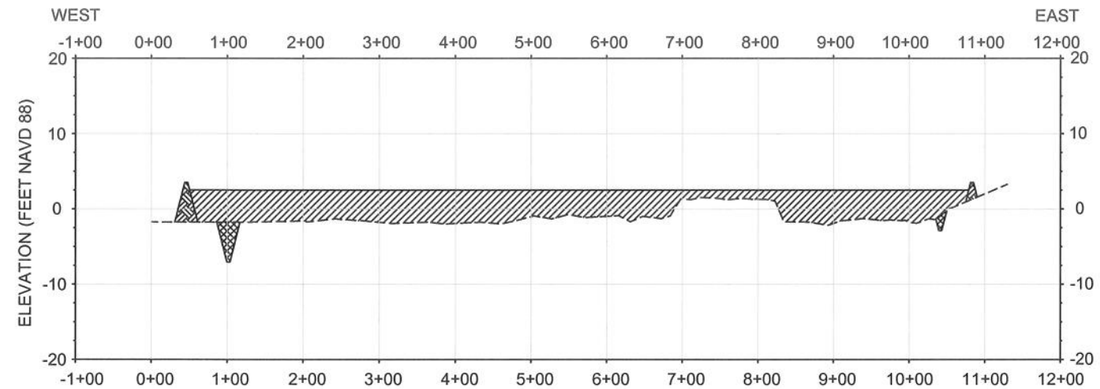
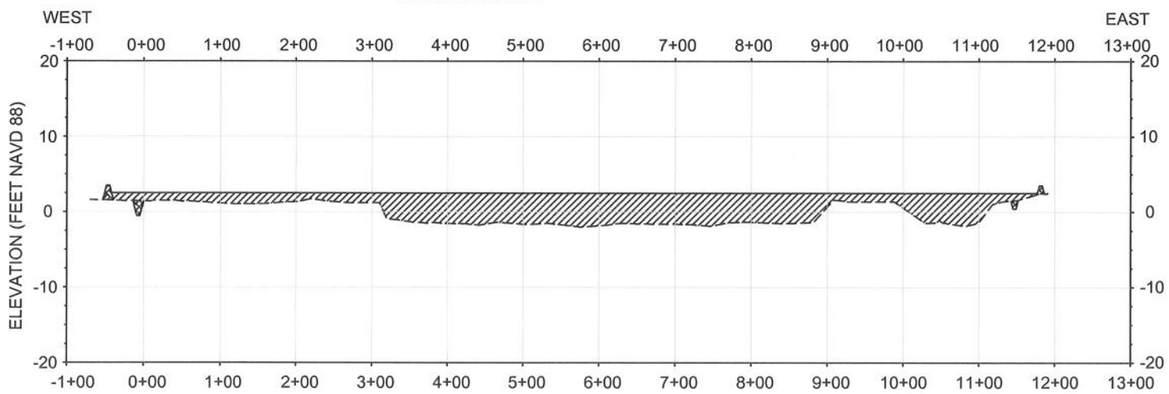


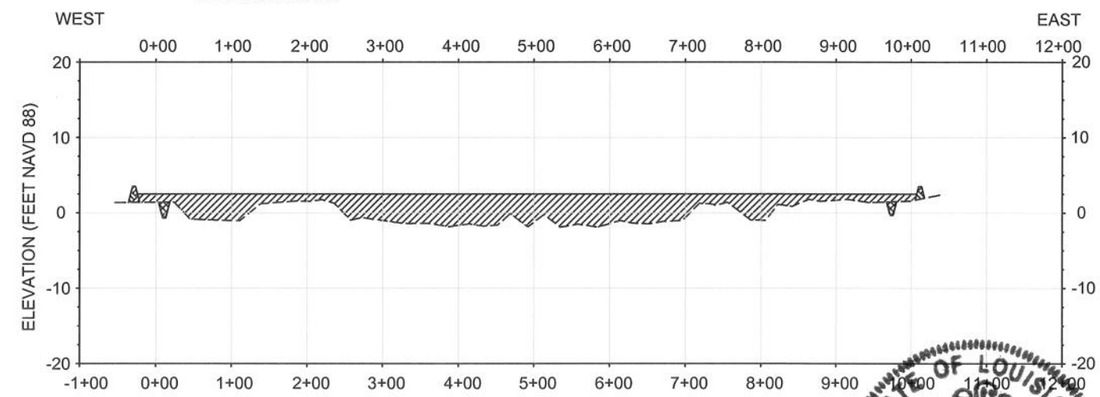
7A PROFILE
LOOKING NORTH



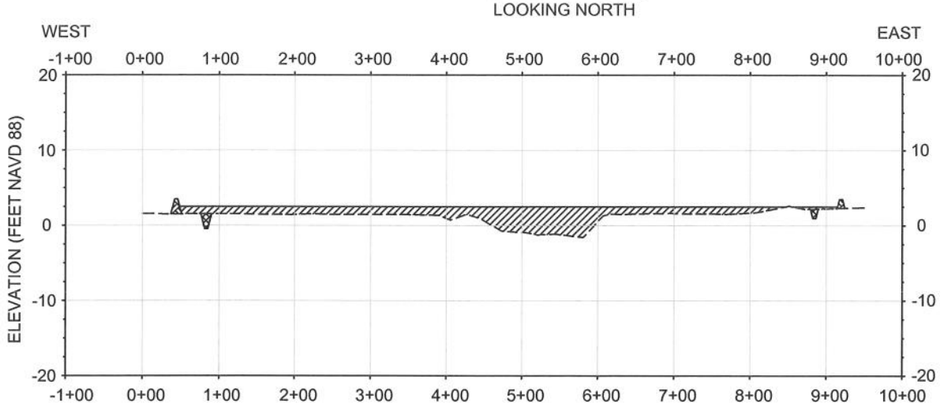
7B PROFILE
LOOKING NORTH



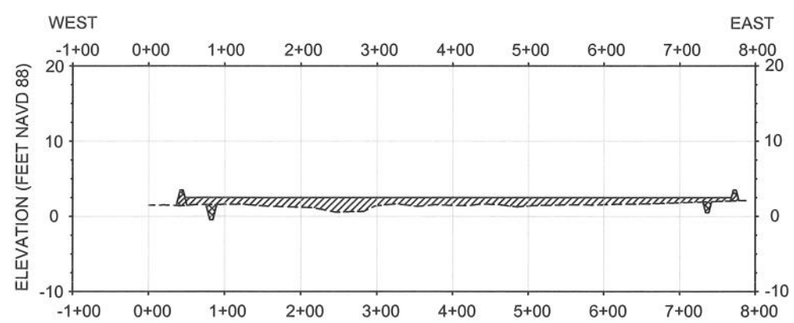
7C PROFILE
LOOKING NORTH



7D PROFILE
LOOKING NORTH



7E PROFILE
LOOKING NORTH



7F PROFILE
LOOKING NORTH

STATE OF LOUISIANA
JERRY S. CARROLL
REG. No. 24418
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING
1-17-08

LEGEND
- EXISTING BOTTOM
- EARTHEN CONTAINMENT DIKE
- FILL AREA
- BORROW AREA

NOTE:
SEE SHEET 14 FOR ELEVATION OF CONTAINMENT DIKE AND TARGET/MAX. ELEVATION OF MARSH FILL HEIGHT.

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

REV.	DATE	DESCRIPTION	BY

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

DRAWN BY: SHANE FAUST
DESIGNED BY: JERRY CARROLL, P.E.

NORTH LAKE MECHANT LANDBRIDGE RESTORATION PROJECT
STATE PROJECT NUMBER: TE-44
FEDERAL PROJECT NUMBER: N/A
APPROVED BY: LUKE LE BAS, P.E.

SECTIONS
DATE: JANUARY 2008
SHEET 50 OF 64

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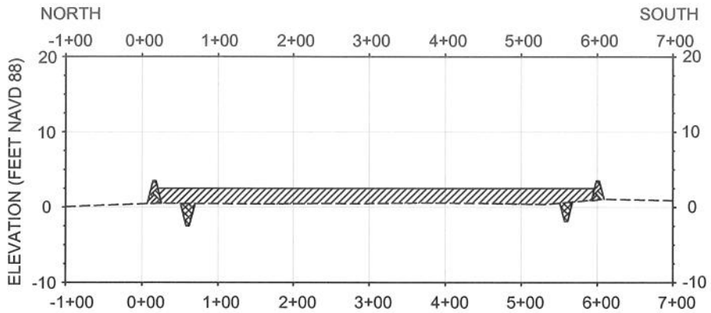
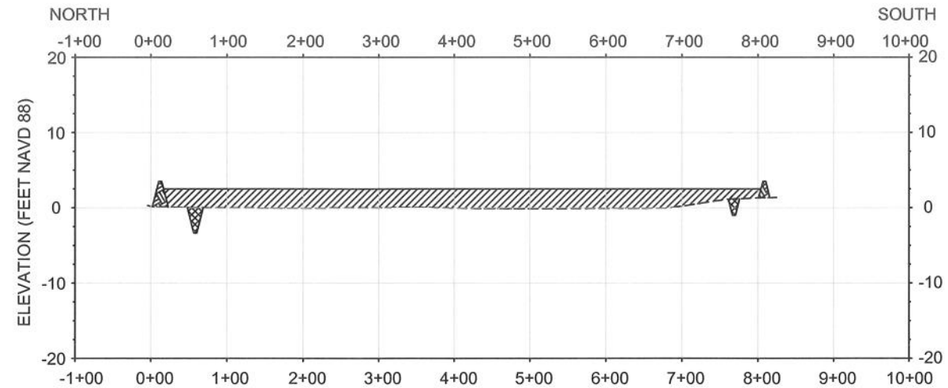
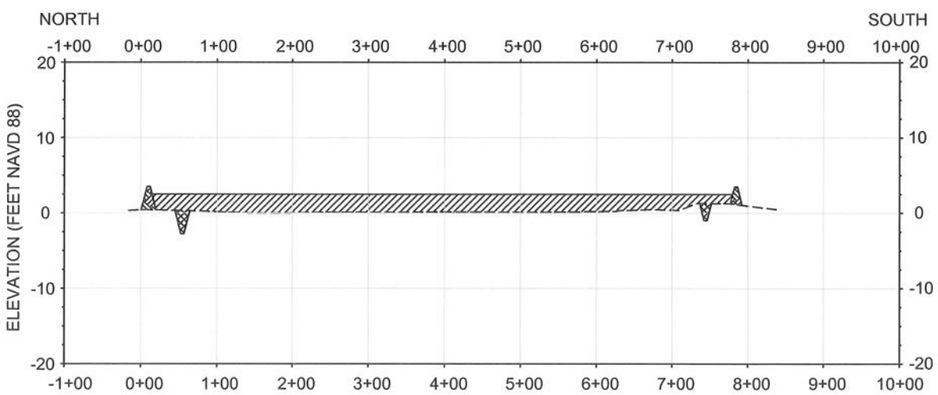


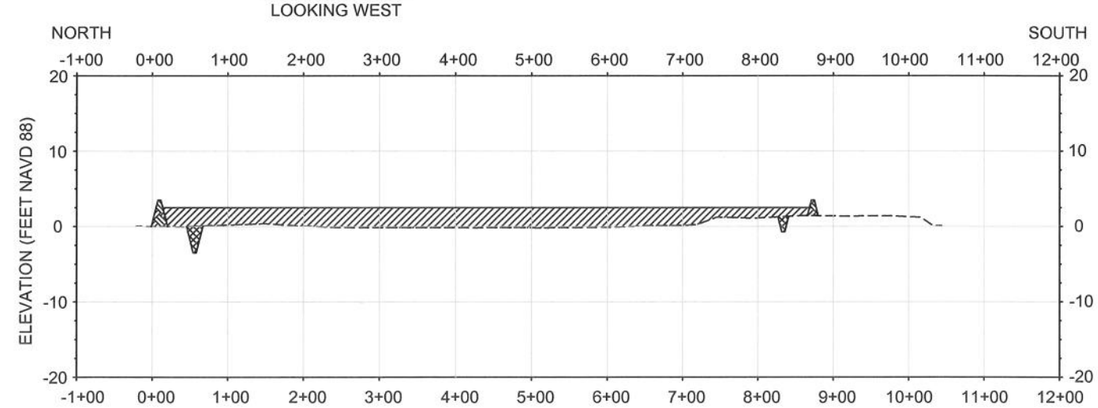
8A PROFILE
LOOKING WEST



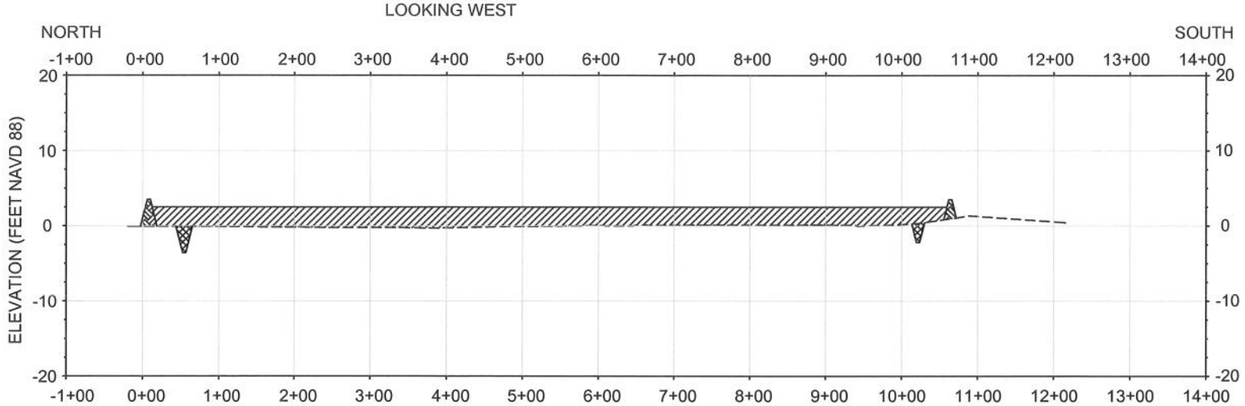
8B PROFILE
LOOKING WEST



8C PROFILE
LOOKING WEST



8D PROFILE
LOOKING WEST



8E PROFILE
LOOKING WEST

STATE OF LOUISIANA
JERRY S. CARROLL
REG. No. 24418
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING
1-17-08

LEGEND	
------	EXISTING BOTTOM
	EARTHEN CONTAINMENT DIKE
	FILL AREA
	BORROW AREA

NOTE:
SEE SHEET 14 FOR ELEVATION OF CONTAINMENT DIKE AND TARGET/MAX. ELEVATION OF MARSH FILL HEIGHT.

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

REV.	DATE	DESCRIPTION	BY

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

DRAWN BY: SHANE FAUST
DESIGNED BY: JERRY CARROLL, P.E.

NORTH LAKE MECHANT LANDBRIDGE RESTORATION PROJECT
STATE PROJECT NUMBER: TE-44
FEDERAL PROJECT NUMBER: N/A
APPROVED BY: LUKE LE BAS, P.E.

SECTIONS
DATE: JANUARY 2008
SHEET 51 OF 65

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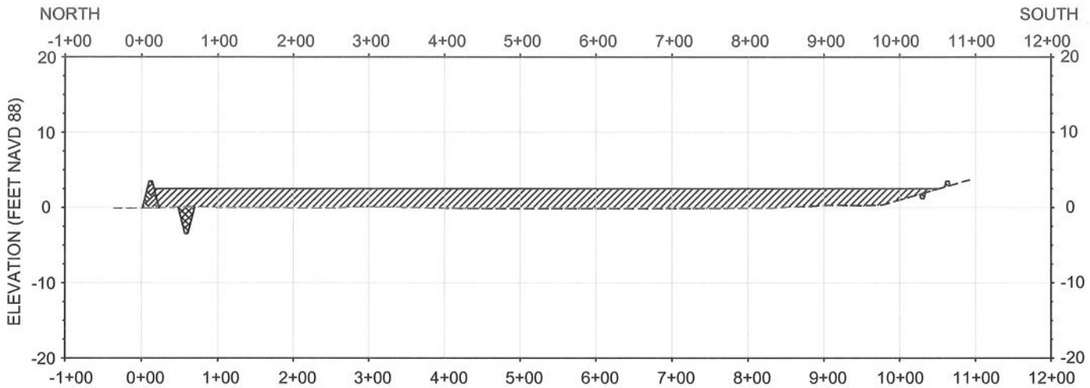
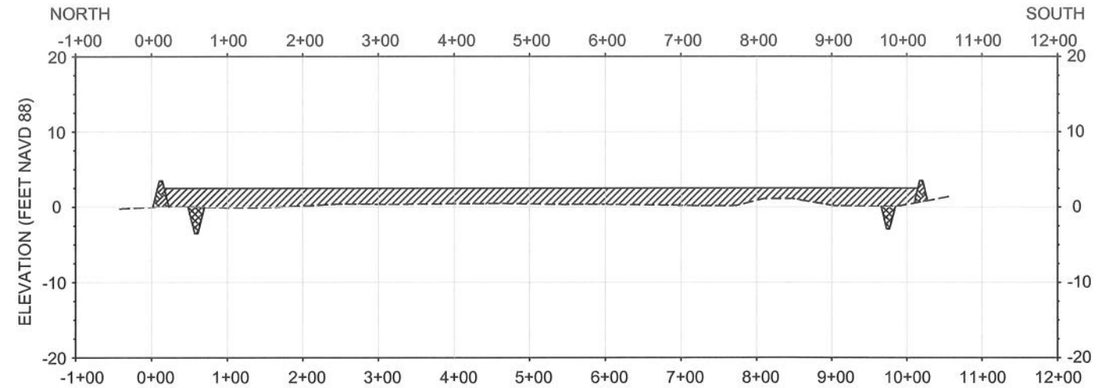
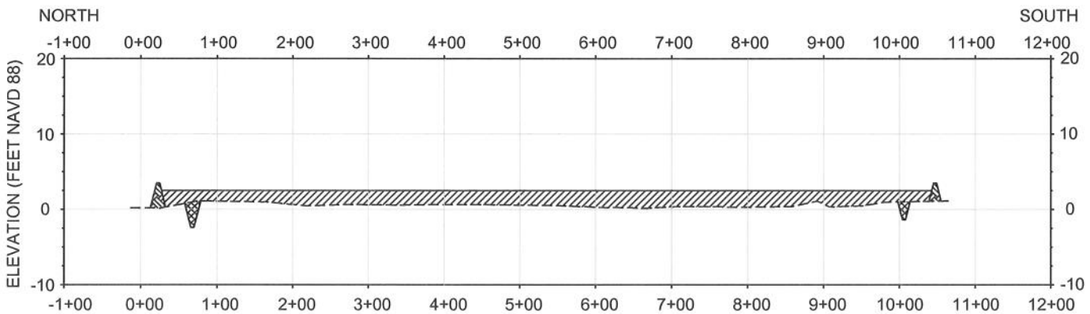


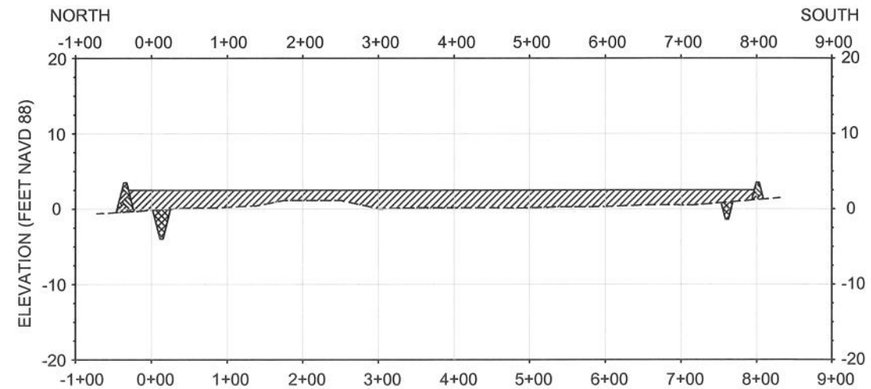
8F PROFILE
LOOKING WEST



8G PROFILE
LOOKING WEST



8H PROFILE
LOOKING WEST



8I PROFILE
LOOKING WEST

STATE OF LOUISIANA
JERRY S. CARROLL
REG. No. 24418
REGISTERED
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
1-17-08

LEGEND	
-------	EXISTING BOTTOM
	EARTHEN CONTAINMENT DIKE
	FILL AREA
	BORROW AREA

NOTE:
SEE SHEET 14 FOR ELEVATION OF CONTAINMENT DIKE AND TARGET/MAX. ELEVATION OF MARSH FILL HEIGHT.

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

REV.	DATE	DESCRIPTION	BY

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

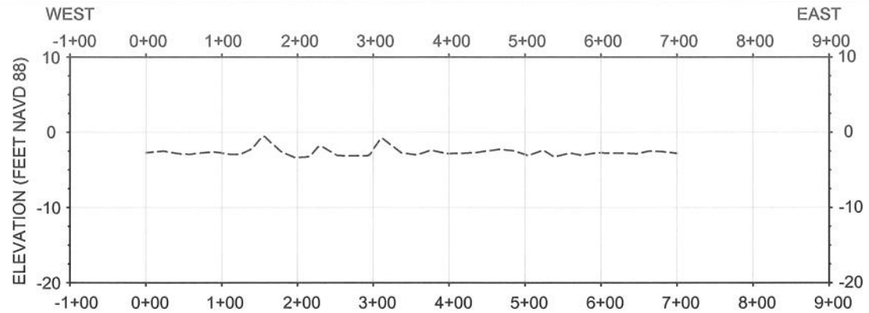
DRAWN BY: SHANE FAUST
DESIGNED BY: JERRY CARROLL, P.E.

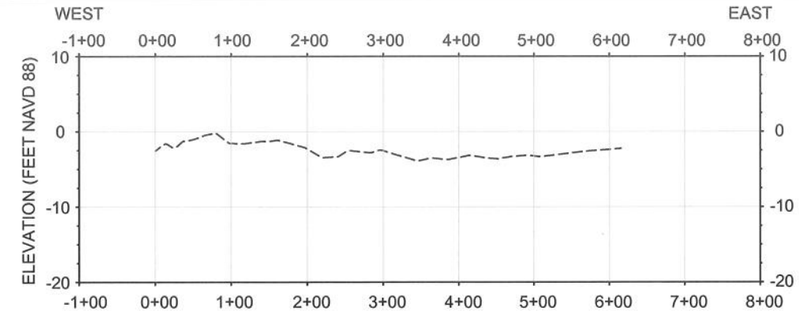
NORTH LAKE MECHANT LANDBRIDGE RESTORATION PROJECT

STATE PROJECT NUMBER: TE-44
FEDERAL PROJECT NUMBER: N/A
APPROVED BY: LUKE LE BAS, P.E.

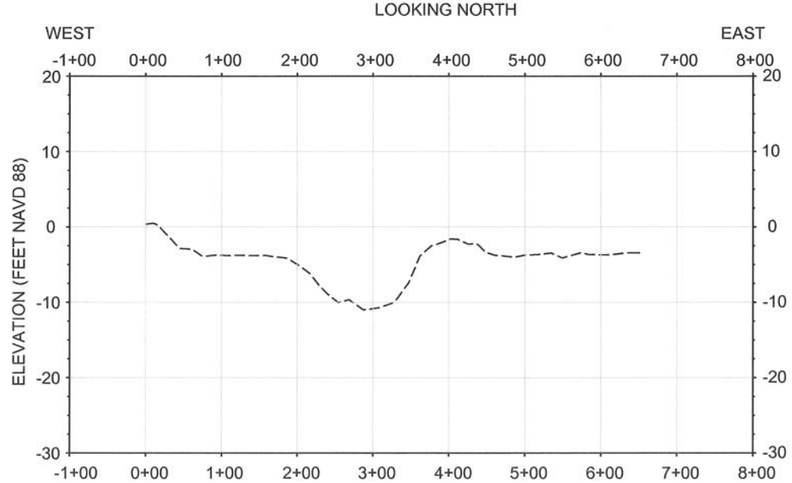
SECTIONS
DATE: JANUARY 2008
SHEET 52 OF 65

G:\Users\Autocad\BASINS\TE\TE-44 Lake Mechant\Final Plan Set\2007 revisons\C51-52 Sections (8).dwg

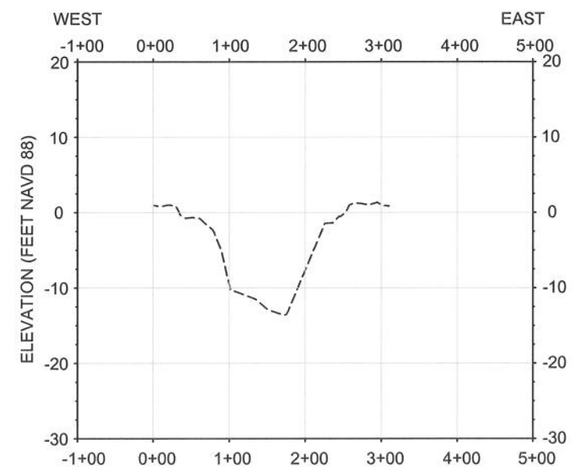




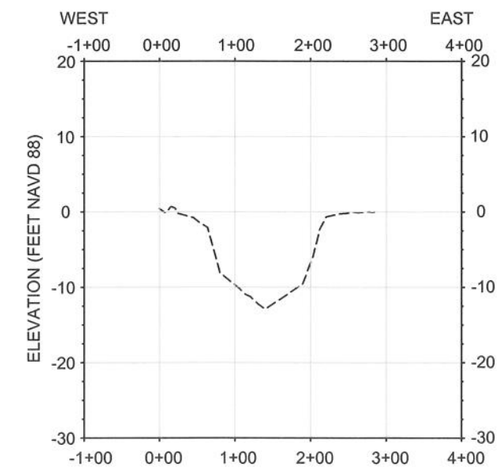
12D PROFILE
LOOKING NORTH



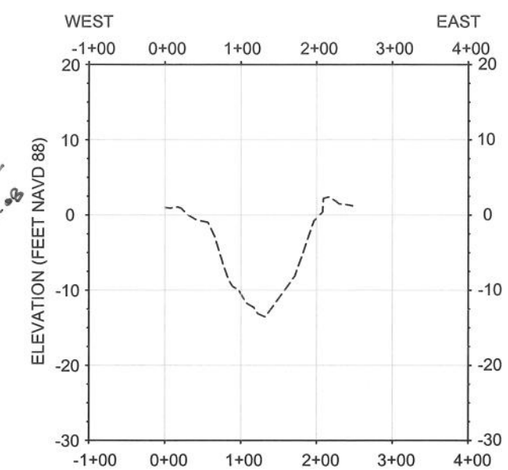
12E PROFILE
LOOKING NORTH



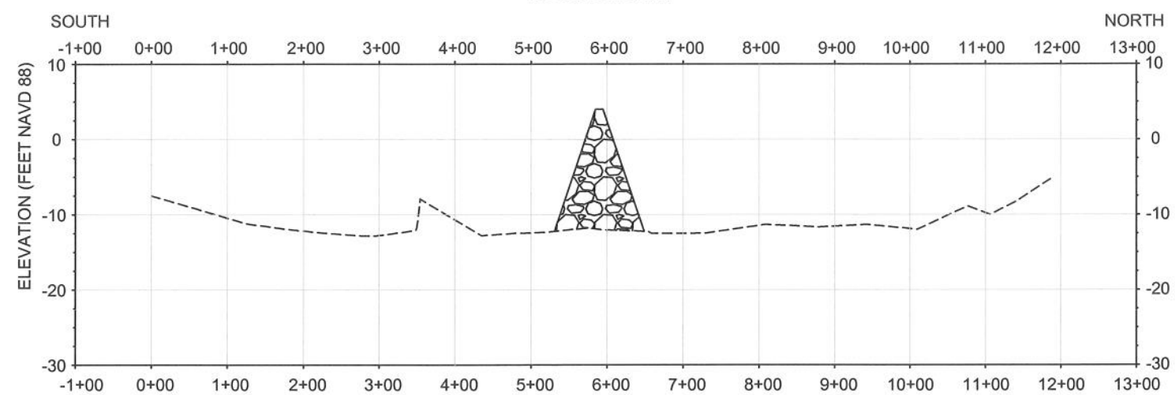
12F PROFILE
LOOKING NORTH



12G PROFILE
LOOKING NORTH



12H PROFILE
LOOKING NORTH



12J PROFILE
LOOKING NORTH

STATE OF LOUISIANA
JERRY S. CARROLL
REG. No. 24418
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING
1-17-08

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

12I PROFILE
LOOKING NORTH

REV.	DATE	DESCRIPTION	BY

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

DRAWN BY: SHANE FAUST
DESIGNED BY: JERRY CARROLL, P.E.

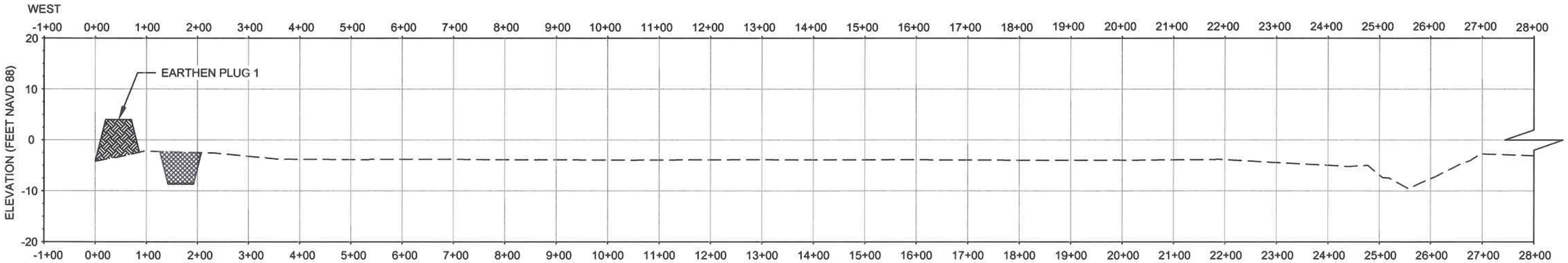
NORTH LAKE MECHANT LANDBRIDGE RESTORATION PROJECT

STATE PROJECT NUMBER: TE-44
FEDERAL PROJECT NUMBER: N/A
APPROVED BY: LUKE LE BAS, P.E.

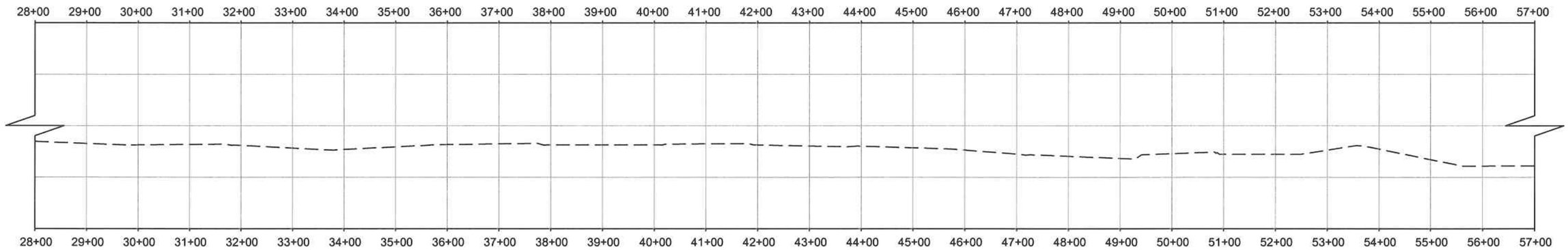
SECTIONS

DATE: JANUARY 2008
SHEET 53 OF 64

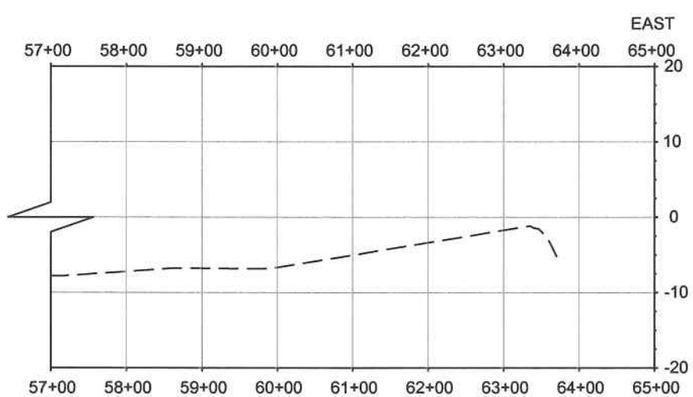
G:\Users\Autocad\BASINS\TE\TE-44 Lake Mechant\Final Plan Set\2007 revisons\C53 Sections (12).dwg



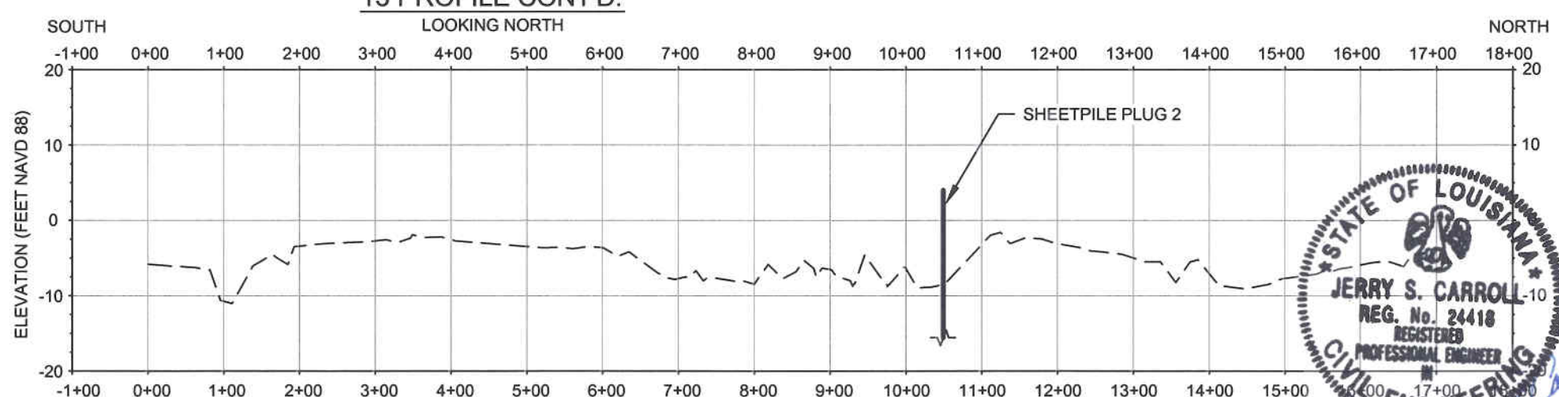
13 PROFILE
LOOKING NORTH



13 PROFILE CONT'D.
LOOKING NORTH



13 PROFILE CONT'D.
LOOKING NORTH



14 PROFILE
LOOKING WEST

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

STATE OF LOUISIANA
JERRY S. CARROLL
REG. No. 24418
REGISTERED PROFESSIONAL ENGINEER IN
CIVIL ENGINEERING
3-27-08

REV.	DATE	DESCRIPTION	BY
1	03/27/2008	REVISED TRANSECT 13 & 14 PROFILES	SF

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

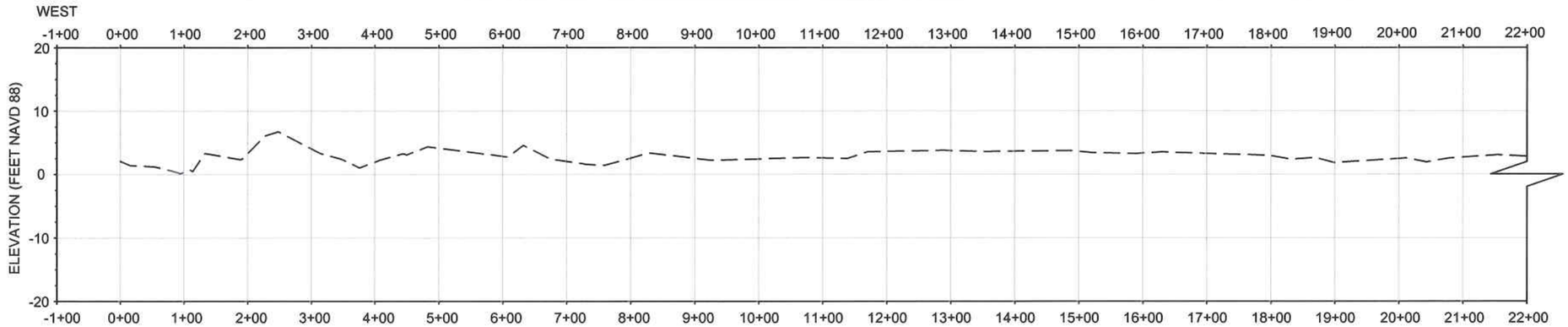
DRAWN BY: SHANE FAUST
DESIGNED BY: JERRY CARROLL, P.E.

NORTH LAKE MECHANT LANDBRIDGE RESTORATION PROJECT

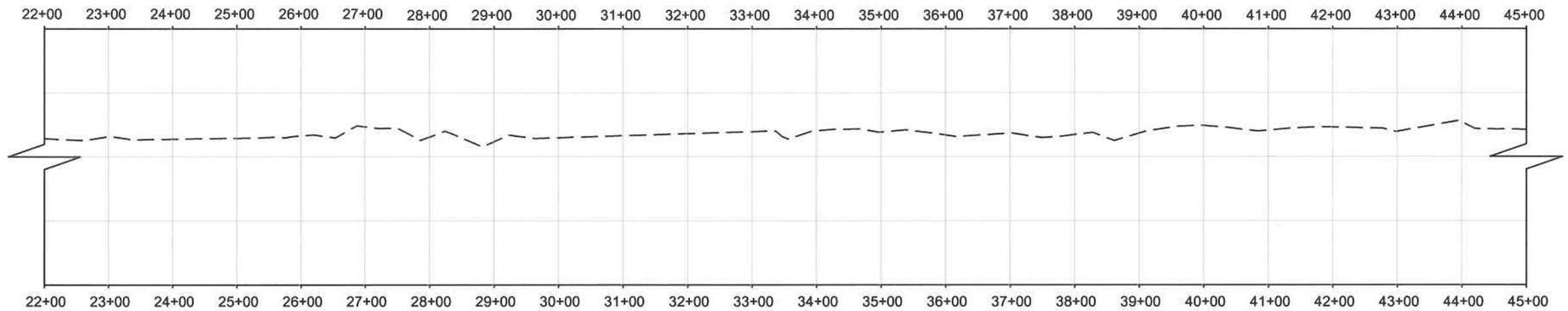
STATE PROJECT NUMBER: TE-44
FEDERAL PROJECT NUMBER: N/A
APPROVED BY: LUKE LE BAS, P.E.

SECTIONS

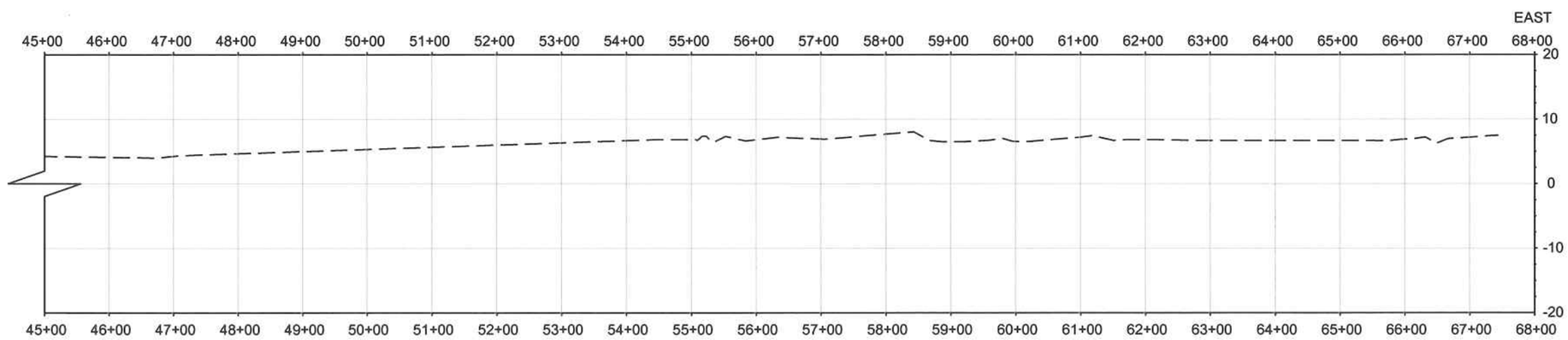
DATE: JANUARY 2008
SHEET 54 OF 65



15 PROFILE
LOOKING NORTH



15 PROFILE CONT'D.
LOOKING NORTH



STATE OF LOUISIANA
JERRY S. CARROLL
REG. No. 24418
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING
3-27-08

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

15 PROFILE CONT'D.
LOOKING NORTH

REV.	DATE	DESCRIPTION	BY
1	03/27/2008	REVISED TRANSECT 15 PROFILE	SF

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

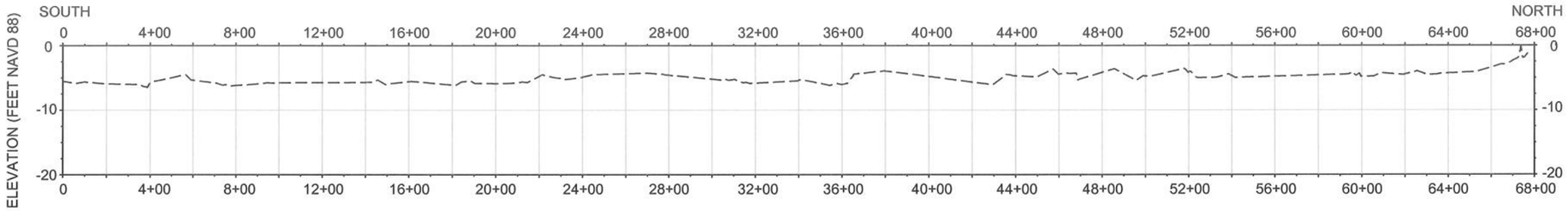
DRAWN BY: SHANE FAUST
DESIGNED BY: JERRY CARROLL, P.E.

NORTH LAKE MECHANT LANDBRIDGE RESTORATION PROJECT

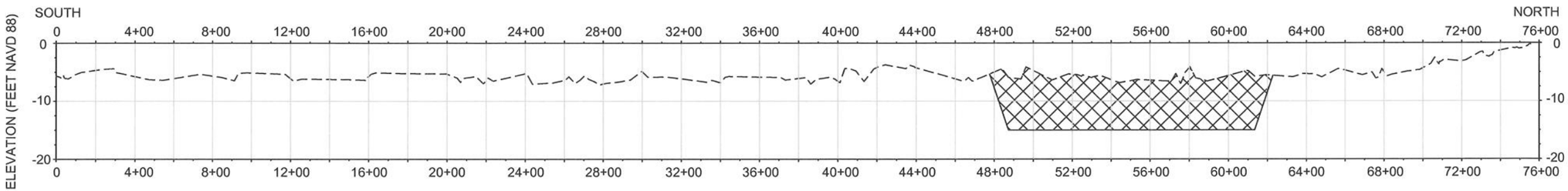
STATE PROJECT NUMBER: TE-44
FEDERAL PROJECT NUMBER: N/A
APPROVED BY: LUKE LE BAS, P.E.

SECTIONS

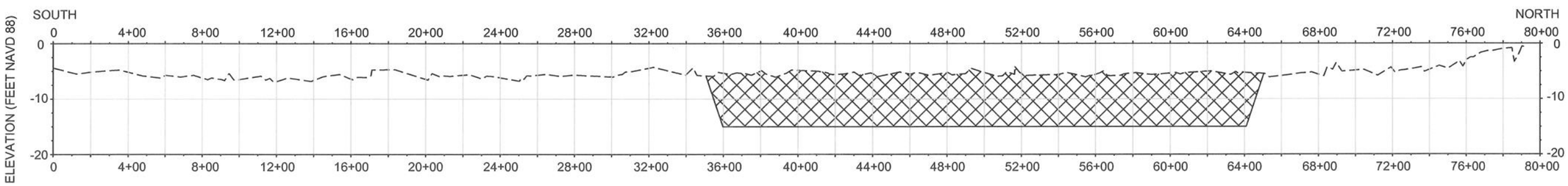
DATE: JANUARY 2008
SHEET 55 OF 65



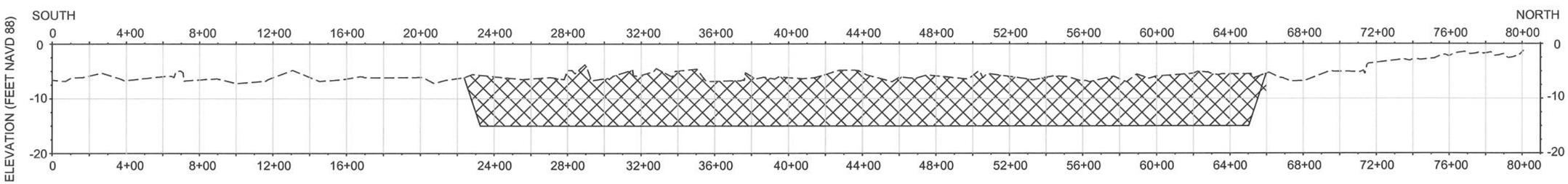
16A PROFILE
LOOKING NORTH



16B PROFILE
LOOKING NORTH



16C PROFILE
LOOKING NORTH



16D PROFILE
LOOKING NORTH

STATE OF LOUISIANA
JERRY S. CARROLL
REG. No. 24418
REGISTERED
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
1-17-08

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

REV.	DATE	DESCRIPTION	BY

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

DRAWN BY: SHANE FAUST
DESIGNED BY: JERRY CARROLL, P.E.

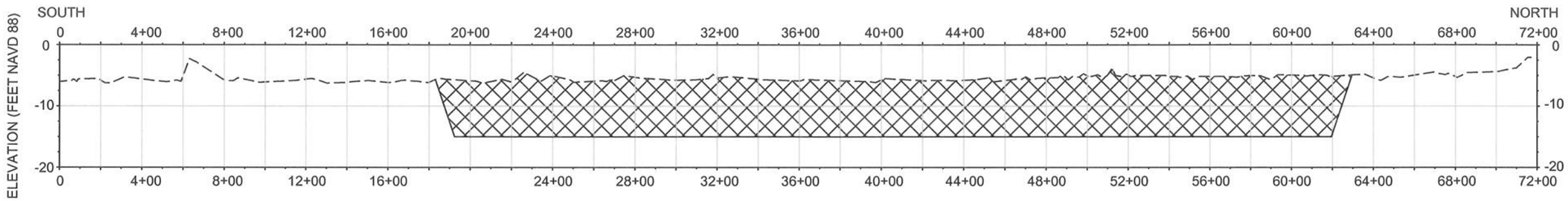
NORTH LAKE MECHANT LANDBRIDGE RESTORATION PROJECT

STATE PROJECT NUMBER: TE-44
FEDERAL PROJECT NUMBER: N/A
APPROVED BY: LUKE LE BAS, P.E.

BORROW AND FILL AREA SECTION VIEWS

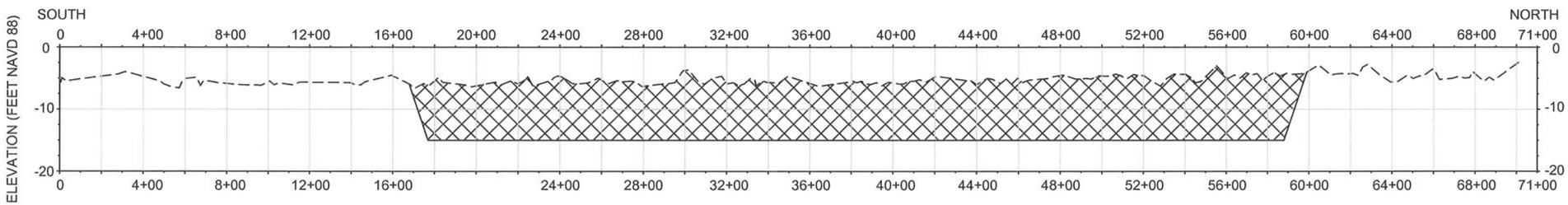
DATE: JANUARY 2008
SHEET 56 OF 65

G:\Users\Autocad\BASINS\TE\TE-44 Lake Mechant\Final Plan Set\2007 revisons\C56-58 Sections (16).dwg



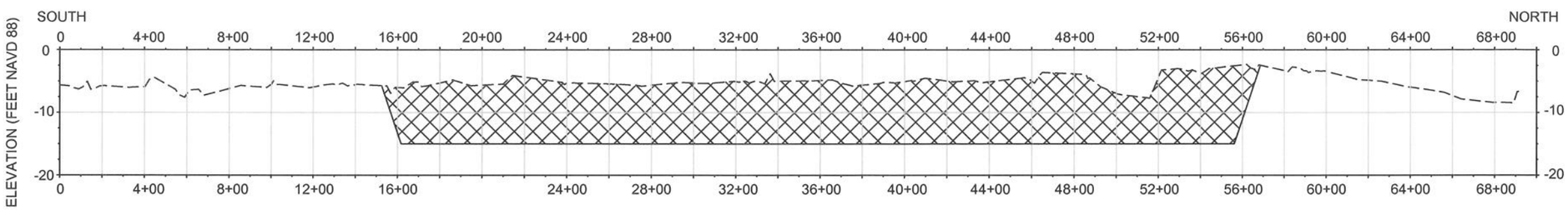
16E PROFILE

LOOKING NORTH



16F PROFILE

LOOKING NORTH



16G PROFILE

LOOKING NORTH

STATE OF LOUISIANA
JERRY S. CARROLL
REG. No. 24418
REGISTERED PROFESSIONAL ENGINEER IN
CIVIL ENGINEERING
1-17-08

HORIZONTAL GRAPHIC SCALE

100' 50' 0 100' 200'

10' 5' 0 10' 20'

VERTICAL GRAPHIC SCALE

REV.	DATE	DESCRIPTION	BY

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

DRAWN BY: SHANE FAUST
DESIGNED BY: JERRY CARROLL, P.E.

NORTH LAKE MECHANT LANDBRIDGE RESTORATION PROJECT

STATE PROJECT NUMBER: TE-44

FEDERAL PROJECT NUMBER: N/A

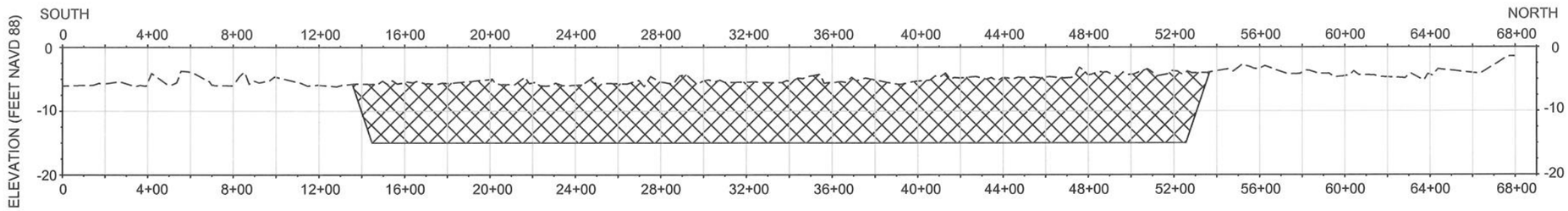
APPROVED BY: LUKE LE BAS, P.E.

BORROW AND FILL AREA SECTION VIEWS

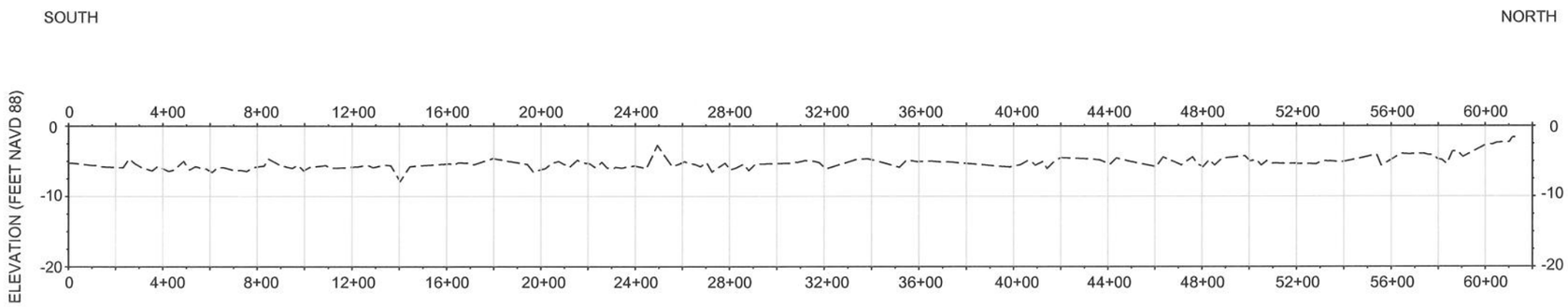
DATE: JANUARY 2008

SHEET 57 OF 65

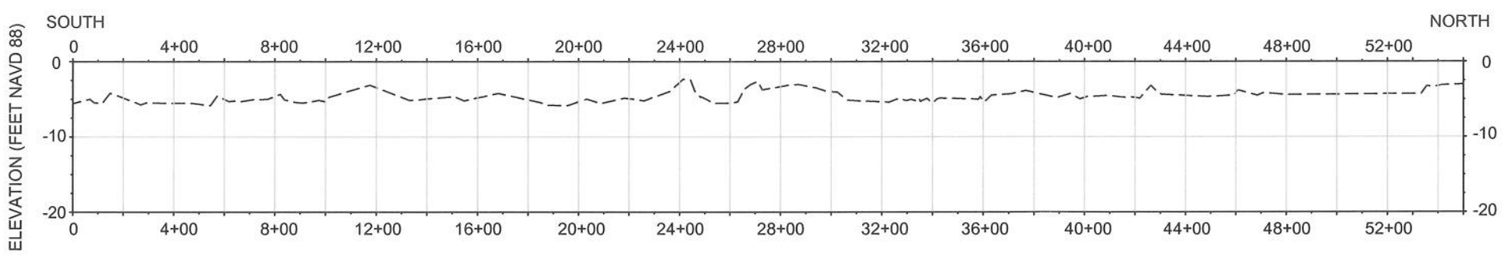
G:\Users\Autocad\BASINS\TE\TE-44 Lake Mechant\Final Plan Set\2007 revisons\C56-58 Sections (16).dwg



16H PROFILE
LOOKING NORTH



16I PROFILE
LOOKING NORTH



16J PROFILE
LOOKING NORTH

STATE OF LOUISIANA
JERRY S. CARROLL
REG. No. 24418
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING
1-17-08

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

REV.	DATE	DESCRIPTION	BY

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

DRAWN BY: SHANE FAUST
DESIGNED BY: JERRY CARROLL, P.E.

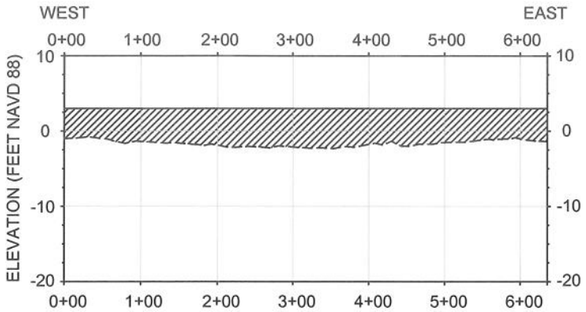
NORTH LAKE MECHANT LANDBRIDGE RESTORATION PROJECT

STATE PROJECT NUMBER: TE-44
FEDERAL PROJECT NUMBER: N/A
APPROVED BY: LUKE LE BAS, P.E.

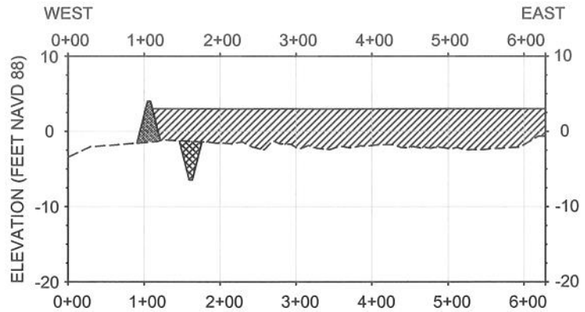
BORROW AND FILL AREA SECTION VIEWS

DATE: JANUARY 2008
SHEET 58 OF 65

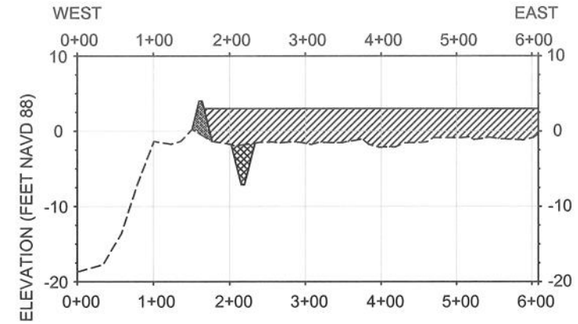
G:\Users\Autocad\BASINS\TE\TE-44 Lake Mechant\Final Plan Set\2007 revisons\C56-58 Sections (16).dwg



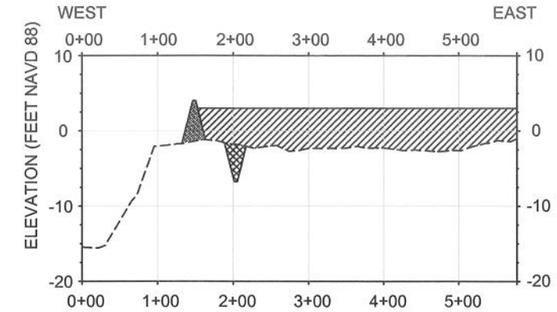
17A PROFILE
LOOKING NORTH



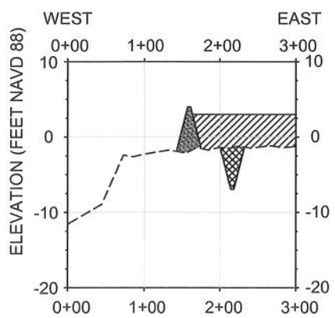
17B PROFILE
LOOKING NORTH



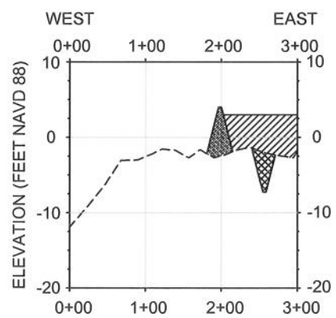
17C PROFILE
LOOKING NORTH



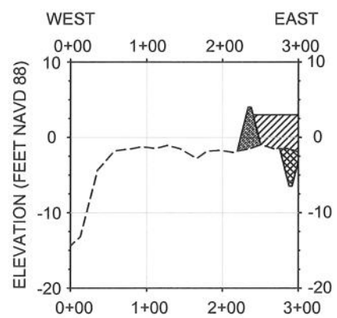
17D PROFILE
LOOKING NORTH



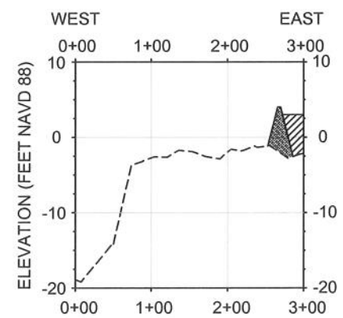
17E PROFILE
LOOKING NORTH



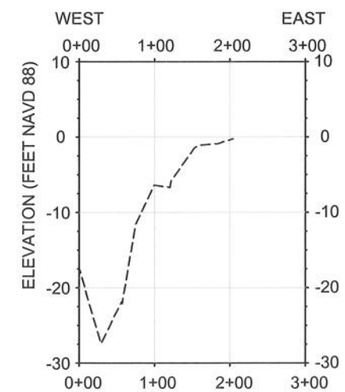
17F PROFILE
LOOKING NORTH



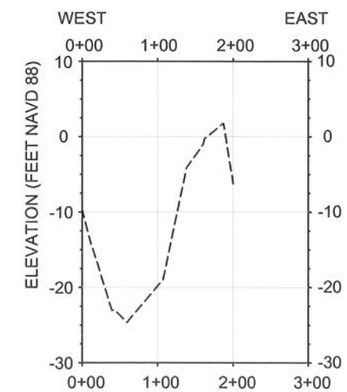
17G PROFILE
LOOKING NORTH



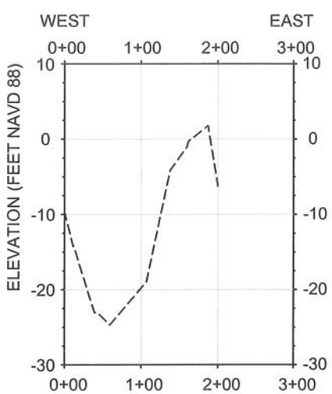
17H PROFILE
LOOKING NORTH



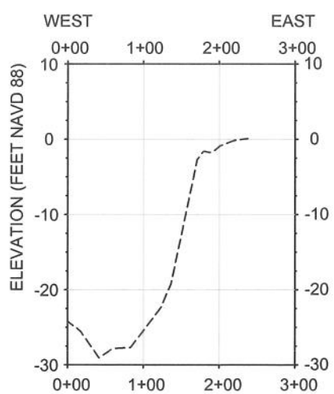
17I PROFILE
LOOKING NORTH



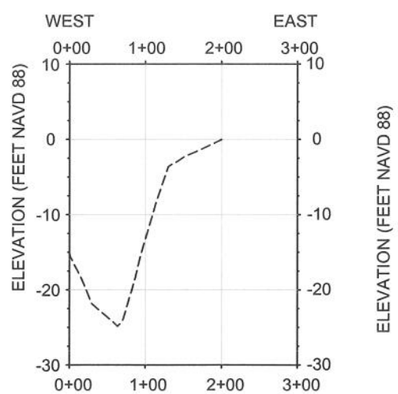
17J PROFILE
LOOKING NORTH



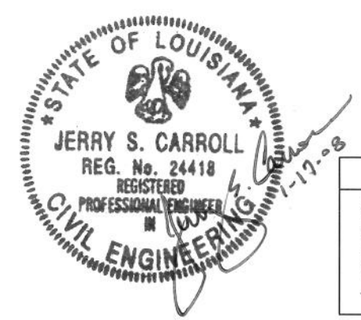
17J PROFILE
LOOKING NORTH



17K PROFILE
LOOKING NORTH



17L PROFILE
LOOKING NORTH



LEGEND
FILL AREA
BORROW AREA
ARMORED EARTHEN DIKE
EXISTING GROUND

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

REV.	DATE	DESCRIPTION	BY

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

DRAWN BY: SHANE FAUST
DESIGNED BY: JERRY CARROLL, P.E.

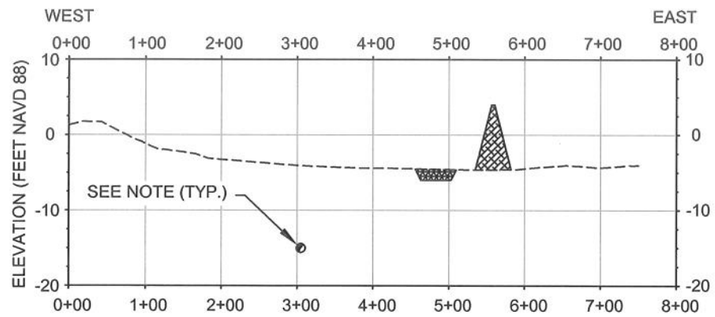
NORTH LAKE MECHANT LANDBRIDGE RESTORATION PROJECT

STATE PROJECT NUMBER: TE-44
FEDERAL PROJECT NUMBER: N/A
APPROVED BY: LUKE LE BAS, P.E.

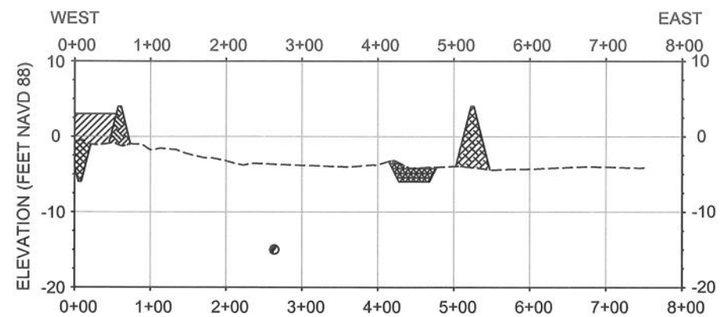
SECTIONS

DATE: OCTOBER 2007
SHEET 59 OF 65

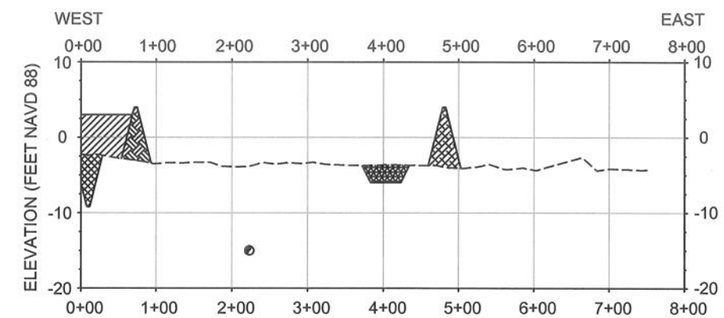
G:\Users\Autocad\BASINS\TE\TE-44 Lake Mechant\Final Plan Set\2007 revisons\C59 Sections (17).dwg



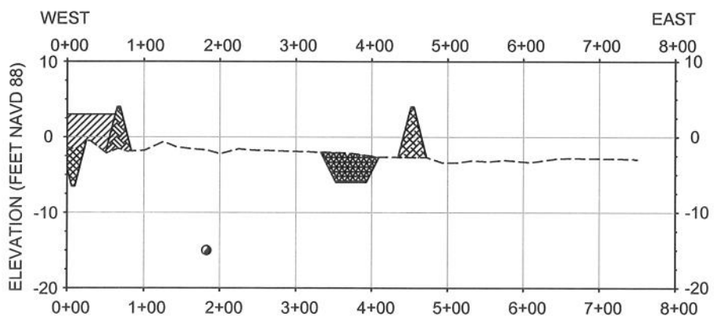
18A PROFILE
LOOKING NORTH



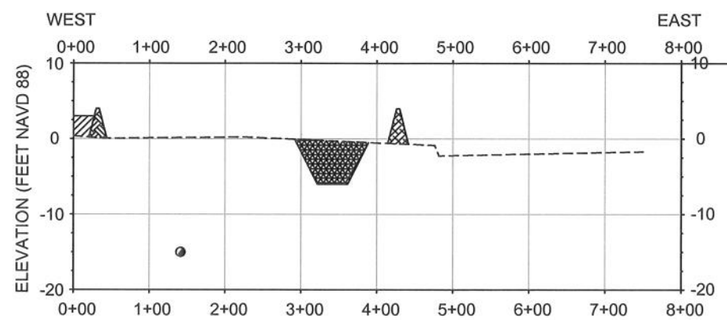
18B PROFILE
LOOKING NORTH



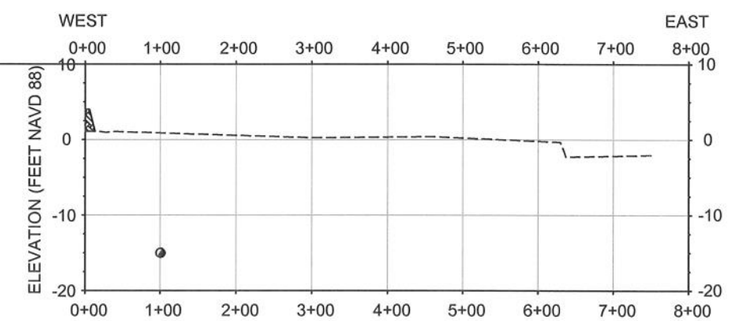
18C PROFILE
LOOKING NORTH



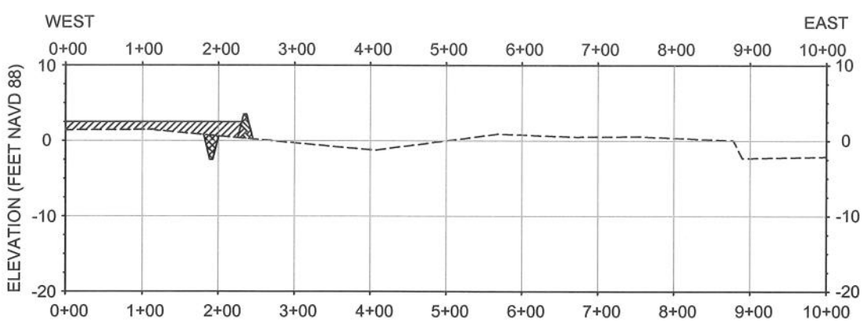
18D PROFILE
LOOKING NORTH



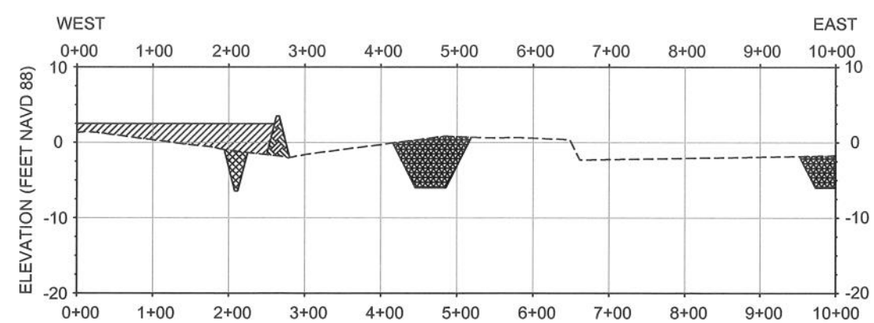
18E PROFILE
LOOKING NORTH



18F PROFILE
LOOKING NORTH



19A PROFILE
LOOKING NORTH



19B PROFILE
LOOKING NORTH

STATE OF LOUISIANA
JERRY S. CARROLL
REG. No. 24418
REGISTERED
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
1-17-08

LEGEND

- FILL AREA
- BORROW AREA
- EARTHEN CONTAINMENT DIKE
- TEMPORARY SPOIL
- FLOATATION CHANNEL
- EXISTING GROUND
- PIPELINE

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

NOTE:
PIPELINE LOCATION AND DEPTH WILL BE DETERMINED AND MARKED BY TENNESSEE GAS. NO DREDGING WILL BE ALLOWED WITH 50' OF PIPELINE.

REV.	DATE	DESCRIPTION	BY

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

DRAWN BY: SHANE FAUST
DESIGNED BY: JERRY CARROLL, P.E.

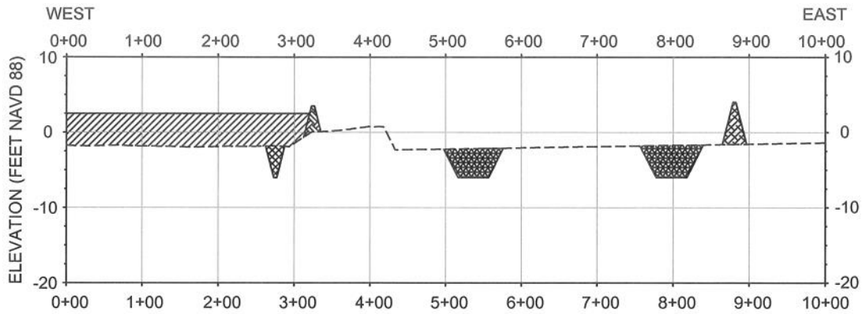
NORTH LAKE MECHANT LANDBRIDGE RESTORATION PROJECT

STATE PROJECT NUMBER: TE-44
FEDERAL PROJECT NUMBER: N/A
APPROVED BY: LUKE LE BAS, P.E.

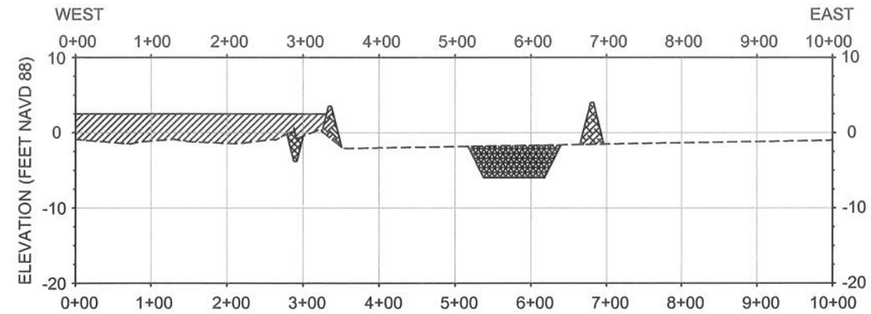
SECTIONS

DATE: JANUARY 2008
SHEET 60 OF 65

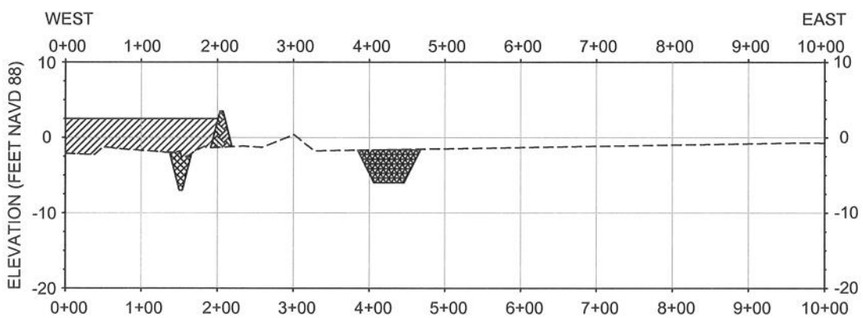
G:\Users\Autocad\BASINS\TE\TE-44 Lake Mechant\Final Plan Set\2007 revisons\C60 Sections (18).dwg



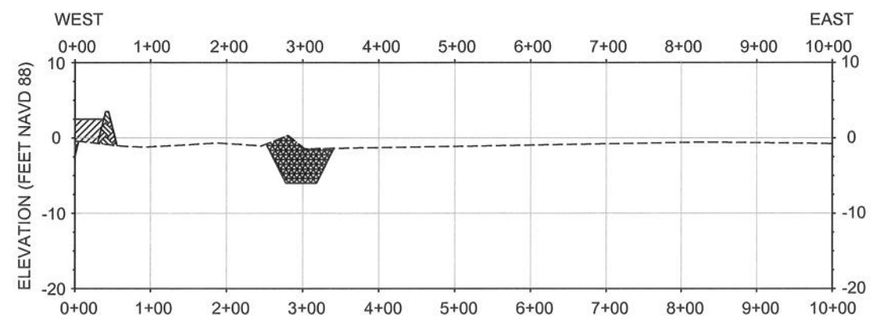
19C PROFILE
LOOKING NORTH



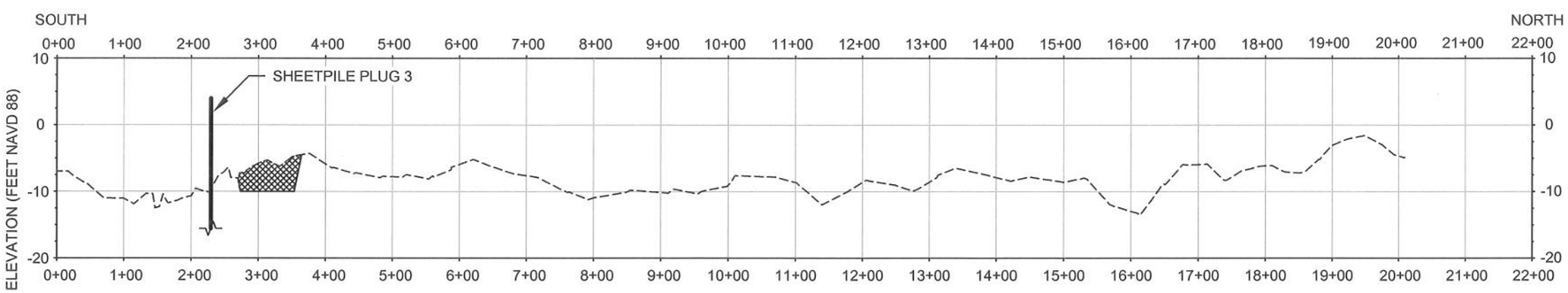
19D PROFILE
LOOKING NORTH



19E PROFILE
LOOKING NORTH



19F PROFILE
LOOKING NORTH



20A PROFILE
LOOKING NORTH

STATE OF LOUISIANA
JERRY S. CARROLL
REG. No. 24418
REGISTERED
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
1-17-08

LEGEND

- FILL AREA
- BORROW AREA
- EARTHEN CONTAINMENT DIKE
- TEMPORARY SPOIL
- FLOATATION CHANNEL
- EXISTING GROUND

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

REV.	DATE	DESCRIPTION	BY

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

DRAWN BY: SHANE FAUST
DESIGNED BY: JERRY CARROLL, P.E.

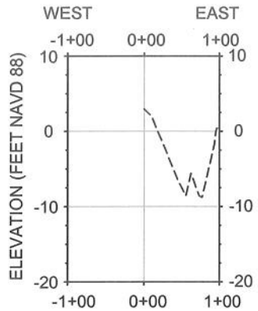
NORTH LAKE MECHANT LANDBRIDGE RESTORATION PROJECT

STATE PROJECT NUMBER: TE-44
FEDERAL PROJECT NUMBER: N/A
APPROVED BY: LUKE LE BAS, P.E.

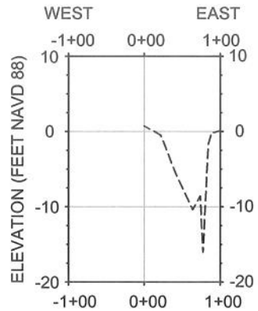
SECTIONS

DATE: JANUARY 2008
SHEET 61 OF 65

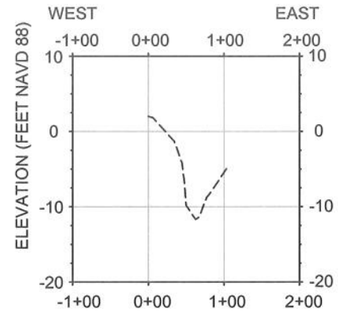
G:\Users\Autocad\BASINS\TE\TE-44 Lake Mechant\Final Plan Set\2007 revisons\C61 Sections (19).dwg



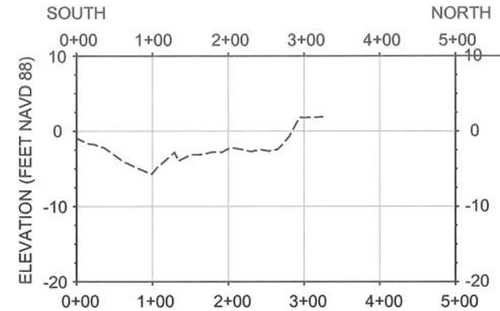
20B PROFILE
LOOKING NORTH



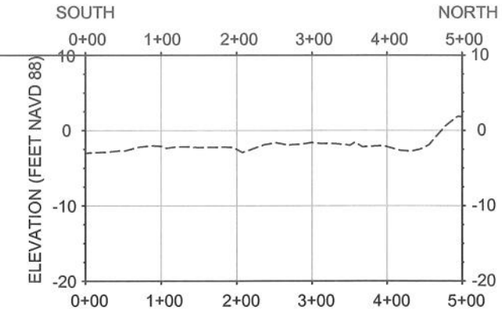
20C PROFILE
LOOKING NORTH



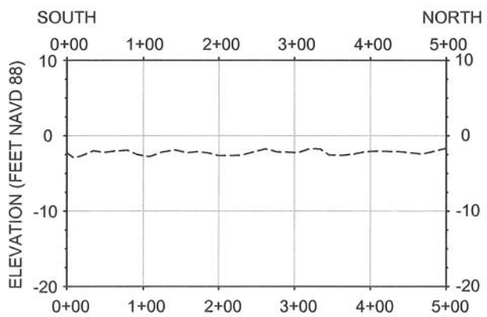
20D PROFILE
LOOKING NORTH



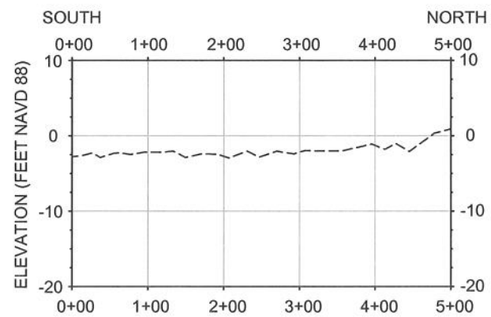
21A PROFILE
LOOKING WEST



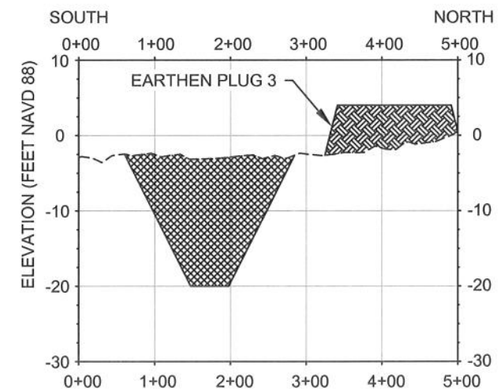
21B PROFILE
LOOKING WEST



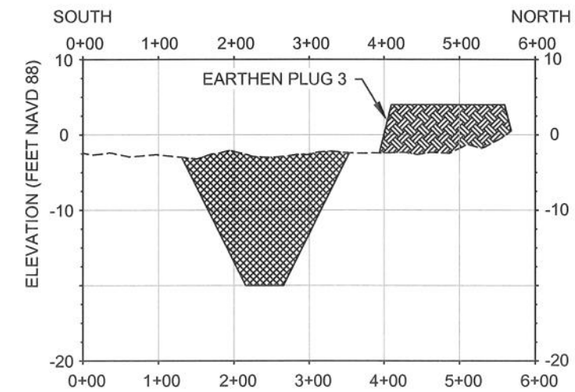
21C PROFILE
LOOKING WEST



21D PROFILE
LOOKING WEST



21E PROFILE
LOOKING WEST



21F PROFILE
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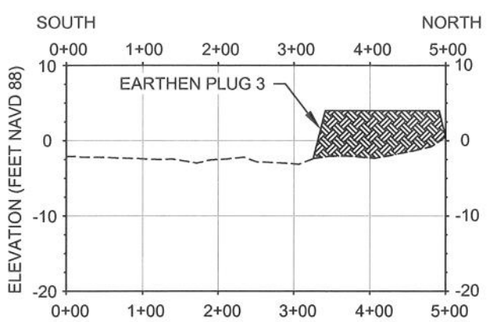
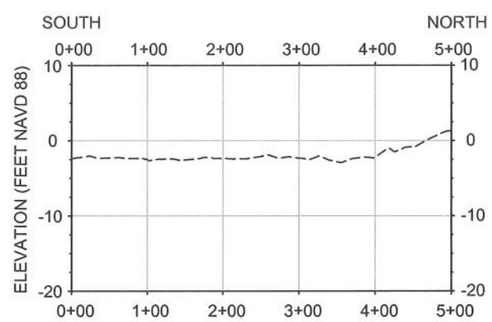
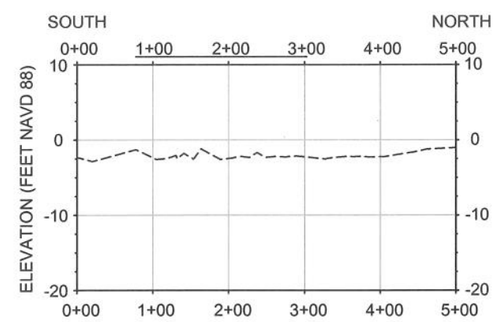


21G PROFILE
LOOKING WEST



21H PROFILE
LOOKING WEST



21I PROFILE
LOOKING WEST

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

REV.	DATE	DESCRIPTION	BY

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

DRAWN BY: SHANE FAUST
DESIGNED BY: JERRY CARROLL, P.E.

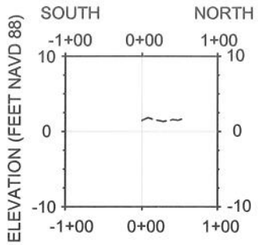
NORTH LAKE MECHANT LANDBRIDGE RESTORATION PROJECT

STATE PROJECT NUMBER: TE-44
FEDERAL PROJECT NUMBER: N/A
APPROVED BY: LUKE LE BAS, P.E.

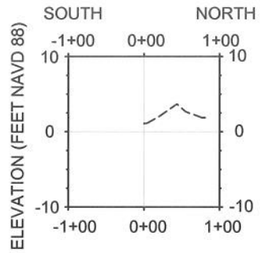
SECTIONS

DATE: JANUARY 2008
SHEET 62 OF 65

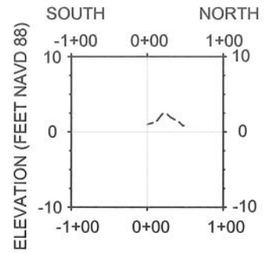
G:\Users\Autocad\BASINS\TE\TE-44 Lake Mechant\Final Plan Set\2007 revisons\C62 Sections (20-21).dwg



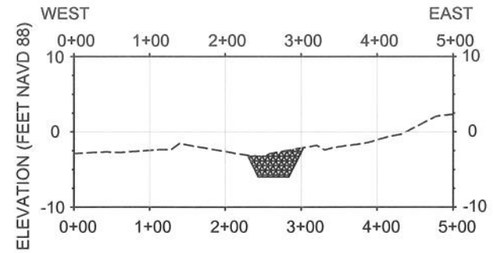
21J PROFILE
LOOKING WEST



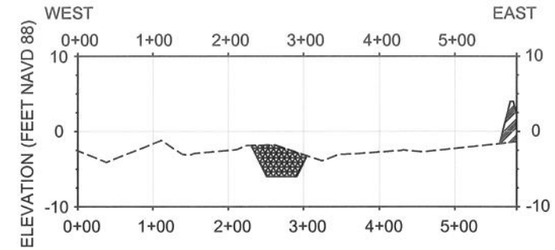
21K PROFILE
LOOKING WEST



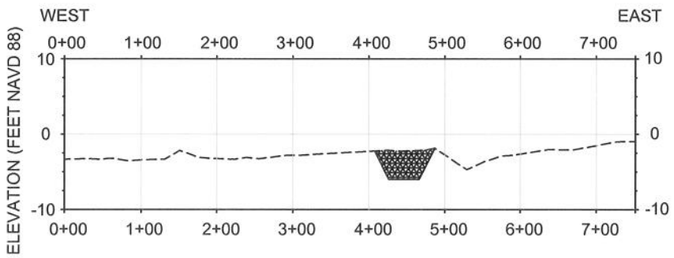
21L PROFILE
LOOKING WEST



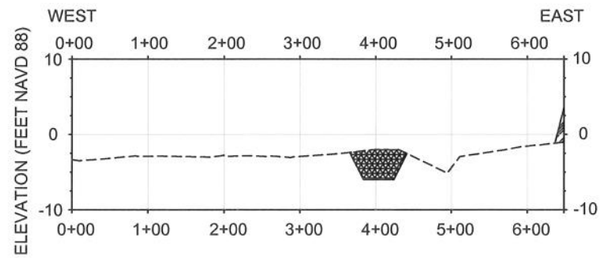
22A PROFILE
LOOKING NORTH



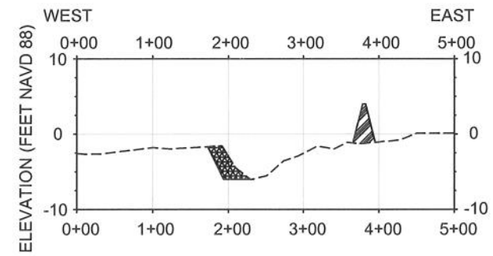
22B PROFILE
LOOKING NORTH



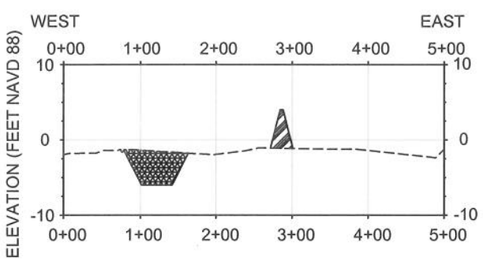
22C PROFILE
LOOKING NORTH



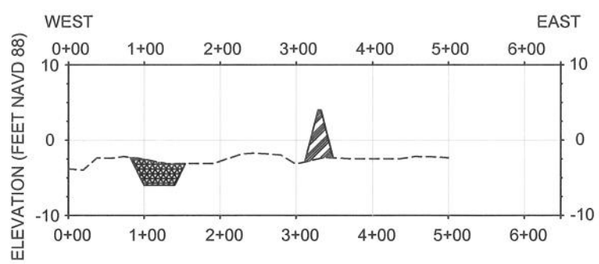
22D PROFILE
LOOKING NORTH



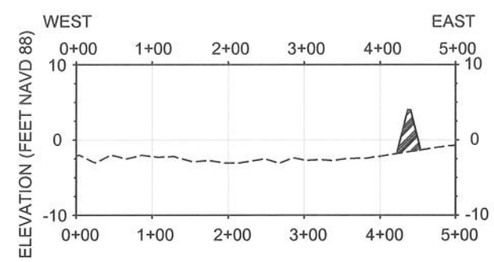
22E PROFILE
LOOKING NORTH



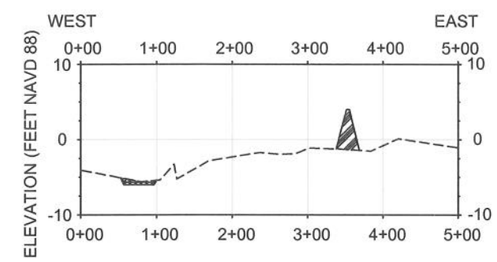
22F PROFILE
LOOKING NORTH



22G PROFILE
LOOKING NORTH



22H PROFILE
LOOKING NORTH



22I PROFILE
LOOKING NORTH

STATE OF LOUISIANA
JERRY S. CARROLL
REG. No. 24418
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING
1-17-08

LEGEND
PERMANENT SPOIL
FLOATATION CHANNEL
EXISTING GROUND

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

REV.	DATE	DESCRIPTION	BY

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

DRAWN BY: SHANE FAUST
DESIGNED BY: JERRY CARROLL, P.E.

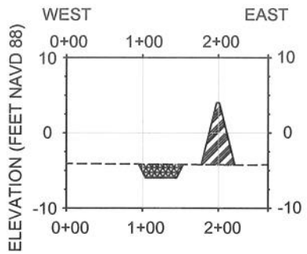
NORTH LAKE MECHANT LANDBRIDGE RESTORATION PROJECT

STATE PROJECT NUMBER: TE-44
FEDERAL PROJECT NUMBER: N/A
APPROVED BY: LUKE LE BAS, P.E.

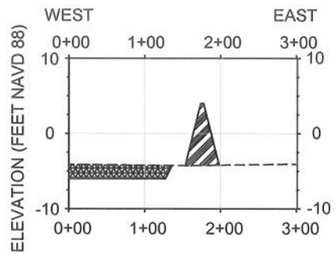
SECTIONS

DATE: JANUARY 2008
SHEET 63 OF 65

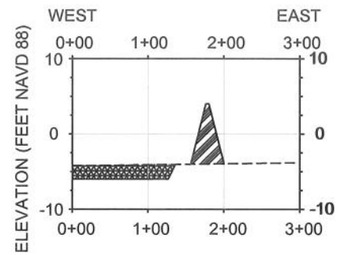
G:\Users\Autocad\BASINS\TE\TE-44 Lake Mechant\Final Plan Set\2007 revisons\C63 Sections (21-22).dwg



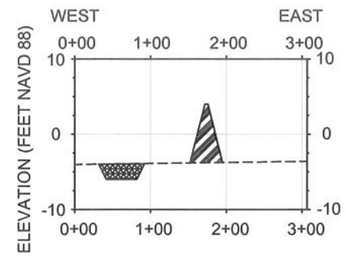
25A PROFILE
LOOKING NORTH



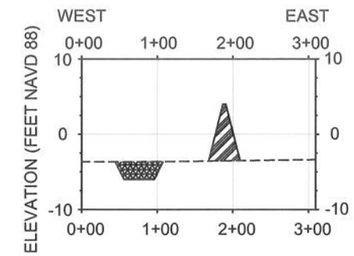
25B PROFILE
LOOKING NORTH



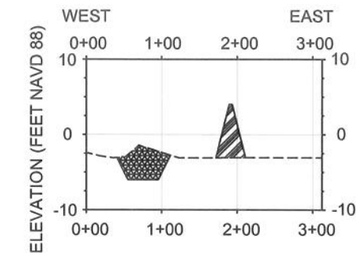
25C PROFILE
LOOKING NORTH



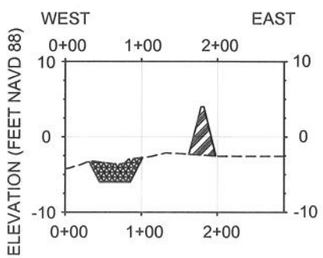
25D PROFILE
LOOKING NORTH



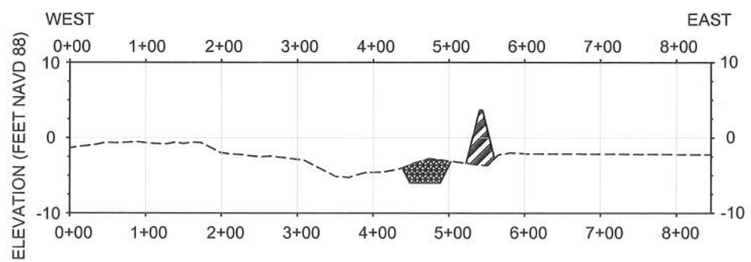
25E PROFILE
LOOKING NORTH



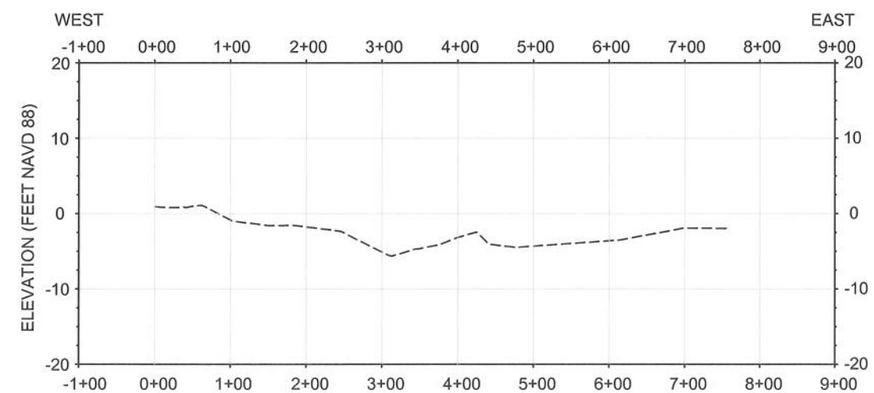
25F PROFILE
LOOKING NORTH



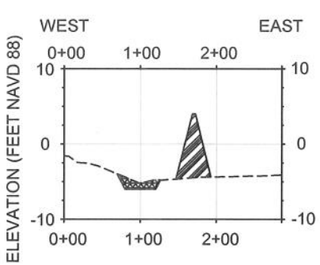
25G PROFILE
LOOKING NORTH



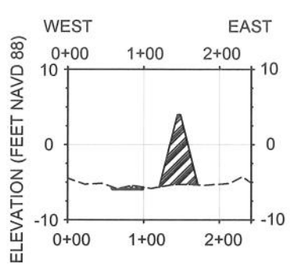
22H PROFILE
LOOKING NORTH



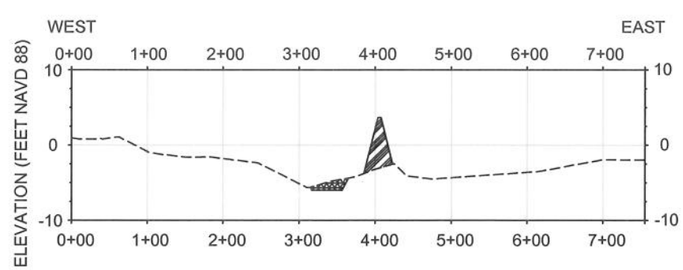
25I PROFILE
LOOCKING NORTH



25J PROFILE
LOOKING NORTH



25I PROFILE
LOOKING NORTH



22I PROFILE
LOOKING NORTH

STATE OF LOUISIANA
JERRY S. CARROLL
REG. No. 24418
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING
1-17-08

LEGEND	
▨	PERMANENT SPOIL
▧	FLOATATION CHANNEL
----	EXISTING GROUND

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

REV.	DATE	DESCRIPTION	BY

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

DRAWN BY: SHANE FAUST
DESIGNED BY: JERRY CARROLL, P.E.

NORTH LAKE MECHANT LANDBRIDGE RESTORATION PROJECT

STATE PROJECT NUMBER: TE-44
FEDERAL PROJECT NUMBER: N/A
APPROVED BY: LUKE LE BAS, P.E.

SECTIONS

DATE: JANUARY 2008
SHEET 64 OF 65

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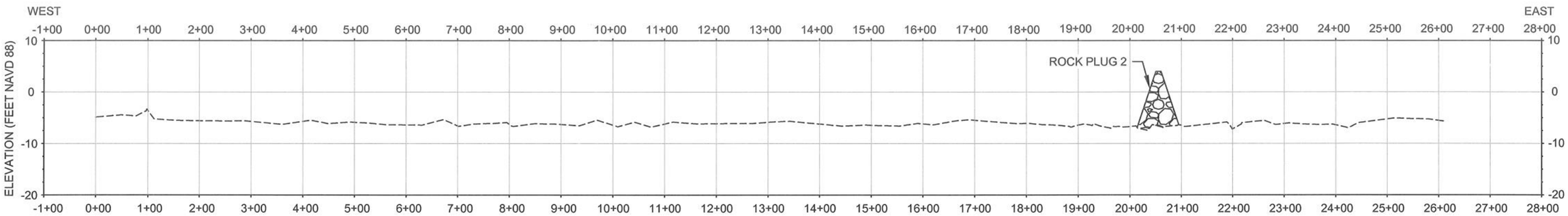
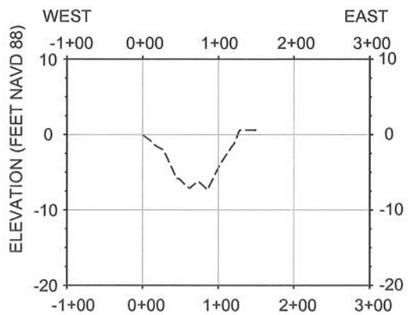


26A PROFILE
LOOKING NORTH



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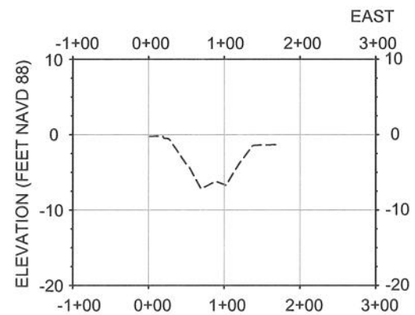
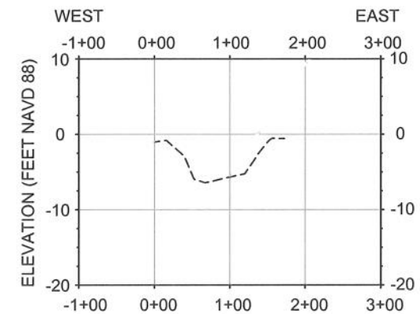
LOOKING NORTH

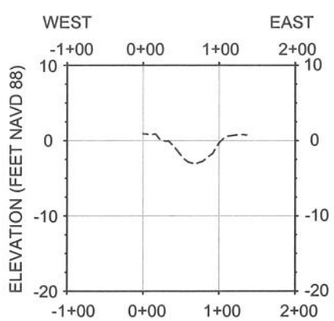


26C PROFILE
LOOKING NORTH

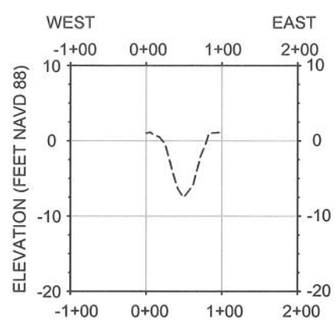


26D PROFILE
LOOKING NORTH

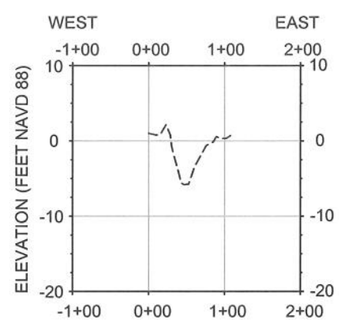
STATE OF LOUISIANA
JERRY S. CARROLL
REG. No. 24418
REGISTERED
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
1-17-08



CONTROL SITE #1
LOOKING NORTH



CONTROL SITE #8
LOOKING NORTH



CONTROL SITE #9
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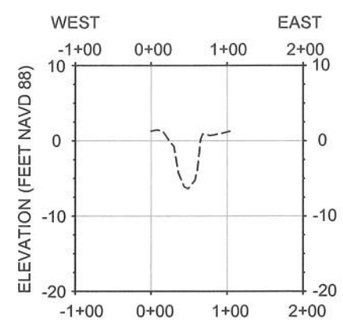

CONTROL SITE #13
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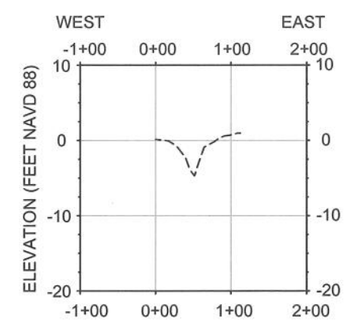

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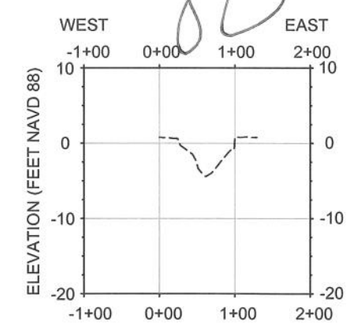

CONTROL SITE #35
LOOKING NORTH

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

REV.	DATE	DESCRIPTION	BY

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

DRAWN BY: SHANE FAUST
DESIGNED BY: JERRY CARROLL, P.E.

NORTH LAKE MECHANT LANDBRIDGE RESTORATION PROJECT
STATE PROJECT NUMBER: TE-44
FEDERAL PROJECT NUMBER: N/A
APPROVED BY: LUKE LE BAS, P.E.

SECTIONS
DATE: JANUARY 2008
SHEET 65 OF 65

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