

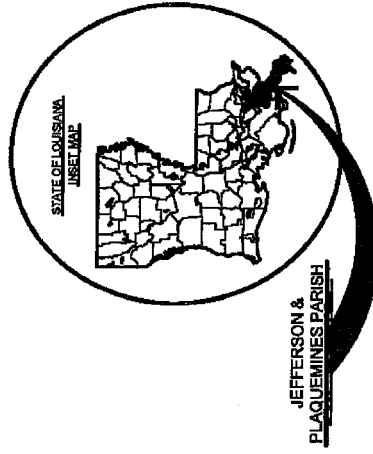
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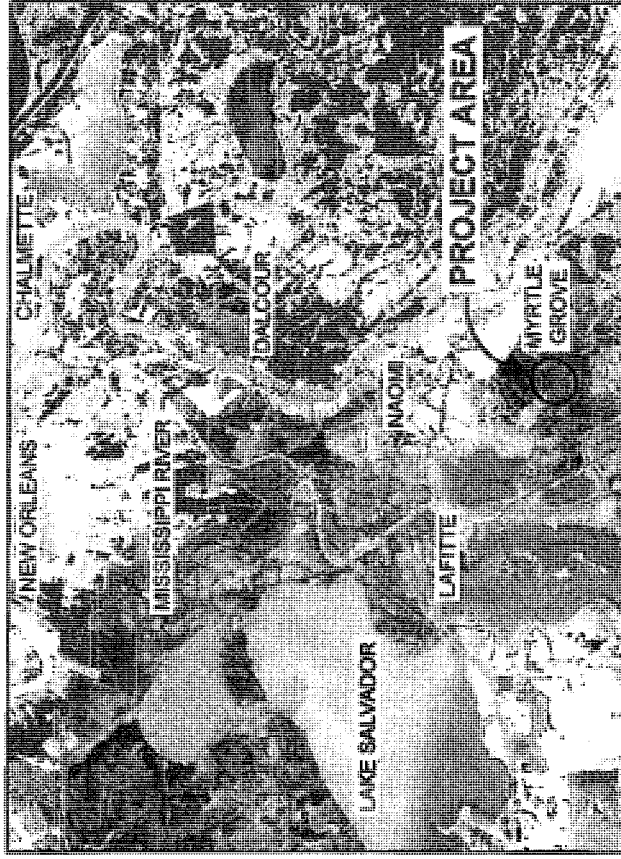
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## STATE OF LOUISIANA COASTAL PROTECTION & RESTORATION AUTHORITY

### BAYOU DUPONT MARSH AND RIDGE CREATION BA-48 JEFFERSON & PLAQUEMINES PARISHES



JEFFERSON &  
PLAQUEMINES PARISH



40,000' 20,000' 0' 40,000' 80,000'

APPLICATION BY:

NATIONAL MARINE FISHERIES SERVICE  
LSU, SOUTH STADIUM DRIVE  
BATON ROUGE, LA 70803

COASTAL PROTECTION AND  
RESTORATION AUTHORITY  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

BAYOU DUPONT MARSH  
AND RIDGE CREATION

TITLE SHEET

DRAWN BY: KRISTI CANTU

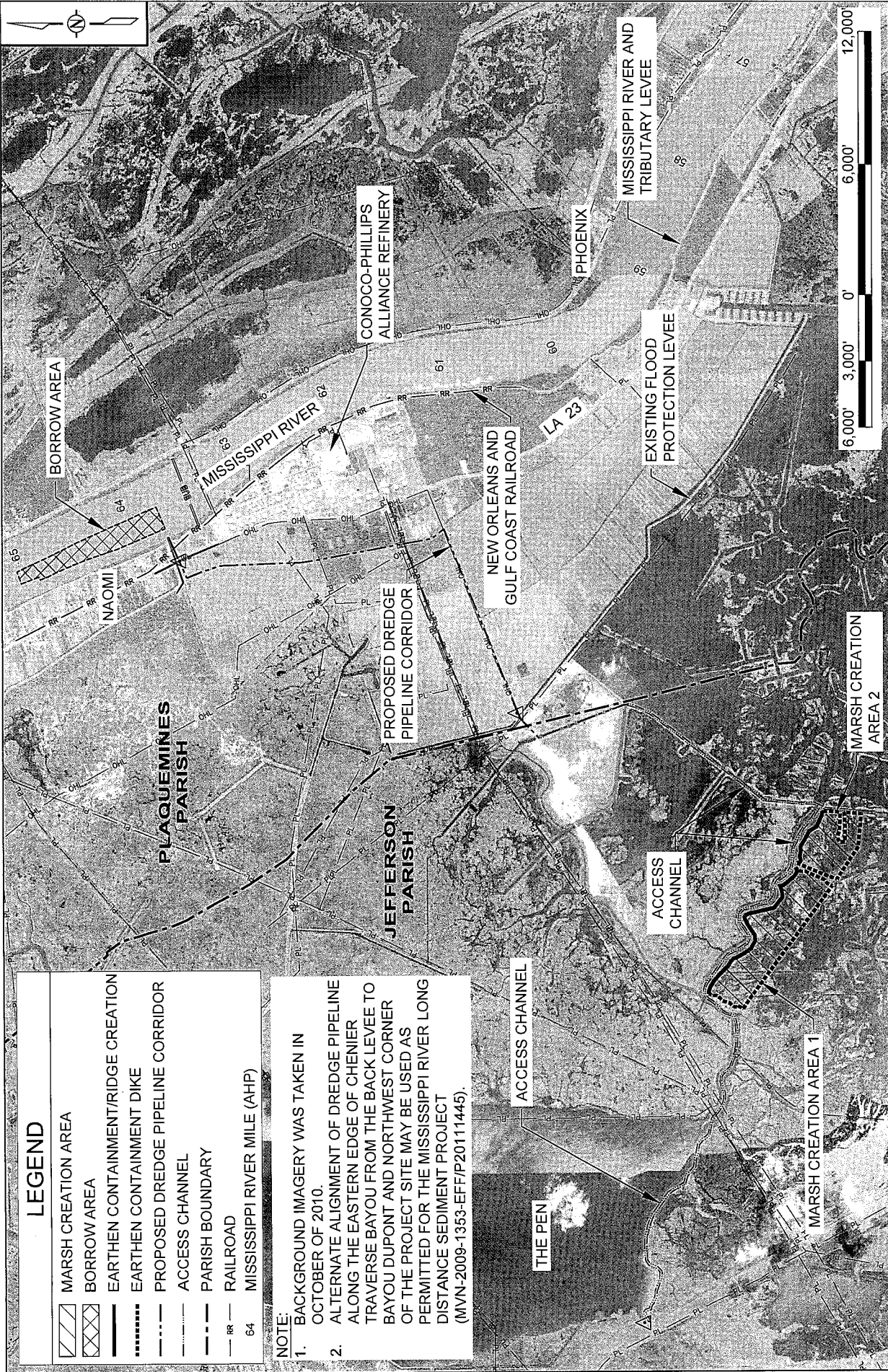
DESIGNED BY: RUSS JOFFRON, P.E.

FEDERAL PROJECT NUMBER: BA-48

SHEET 1 OF 35

DATE: JULY 2011

STATE PROJECT NUMBER: BA-48



## LEGEND

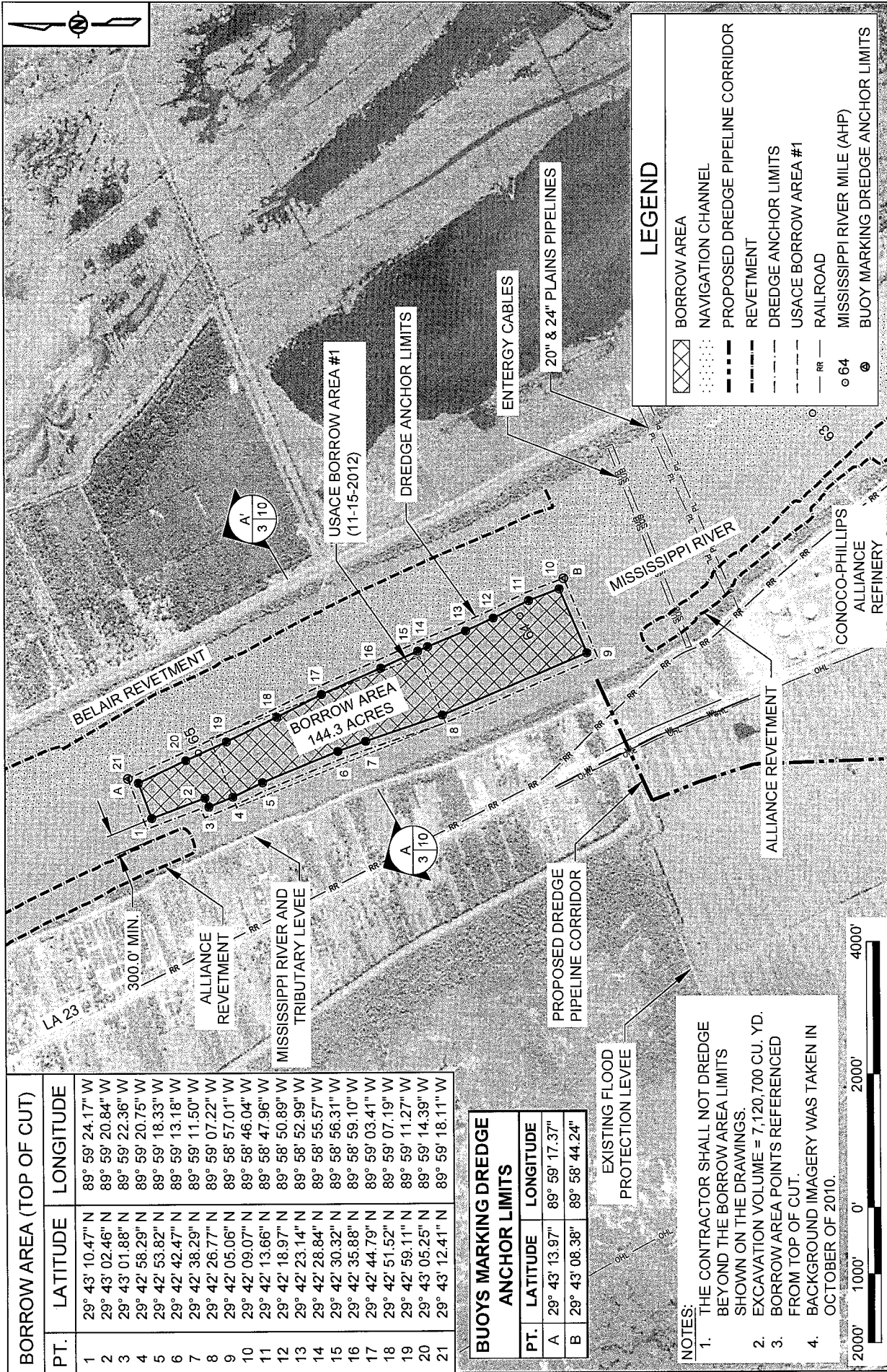
- MARSH CREATION AREA
- BORROW AREA
- EARTHEN CONTAINMENT/RIDGE CREATION
- EARTHEN CONTAINMENT DIKE
- PROPOSED DREDGE PIPELINE CORRIDOR
- ACCESS CHANNEL
- PARISH BOUNDARY
- RAILROAD
- MISSISSIPPI RIVER MILE (AHP)

NOTE:

- BACKGROUND IMAGERY WAS TAKEN IN OCTOBER OF 2010.
- ALTERNATE ALIGNMENT OF DREDGE PIPELINE ALONG THE EASTERN EDGE OF CHENIER TRVERSE BAYOU FROM THE BACK LEVEE TO BAYOU DUPONT AND NORTHWEST CORNER OF THE PROJECT SITE MAY BE USED AS PERMITTED FOR THE MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PROJECT (MVN-2009-1353-EFF/P/20111445).

APPLICATION BY: NATIONAL MARINE FISHERIES SERVICE LSU, SOUTH STADIUM DRIVE BATON ROUGE, LA 70803	COASTAL PROTECTION AND RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801		BAYOU DUPONT MARSH AND RIDGE CREATION	PROJECT LAYOUT
	DESIGNED BY: RUSS JOFFRION, P.E.	APPROVED BY: MAURY CHATELLIER, P.E.	STATE PROJECT NUMBER: BA-48 FEDERAL PROJECT NUMBER: BA-48	DATE: JULY 2011 (MOD MAR. 20, 2013) SHEET 2 OF 35





BORROW AREA (TOP OF CUT)		
PT.	LATITUDE	LONGITUDE
1	29° 43' 10.47" N	89° 59' 24.17" W
2	29° 43' 02.46" N	89° 59' 20.84" W
3	29° 43' 01.88" N	89° 59' 22.36" W
4	29° 42' 58.29" N	89° 59' 20.75" W
5	29° 42' 53.82" N	89° 59' 18.33" W
6	29° 42' 42.47" N	89° 59' 13.18" W
7	29° 42' 38.29" N	89° 59' 11.50" W
8	29° 42' 26.77" N	89° 59' 07.22" W
9	29° 42' 05.06" N	89° 58' 57.01" W
10	29° 42' 09.07" N	89° 58' 46.04" W
11	29° 42' 13.66" N	89° 58' 47.96" W
12	29° 42' 18.97" N	89° 58' 50.89" W
13	29° 42' 23.14" N	89° 58' 52.99" W
14	29° 42' 28.84" N	89° 58' 55.57" W
15	29° 42' 30.32" N	89° 58' 56.31" W
16	29° 42' 35.88" N	89° 58' 59.10" W
17	29° 42' 44.79" N	89° 59' 03.41" W
18	29° 42' 51.52" N	89° 59' 07.19" W
19	29° 42' 59.11" N	89° 59' 11.27" W
20	29° 43' 05.25" N	89° 59' 14.39" W
21	29° 43' 12.41" N	89° 59' 18.11" W

BUOYS MARKING DREDGE ANCHOR LIMITS	
PT.	LONGITUDE
A	89° 59' 17.37" W
B	89° 58' 44.24" W

- NOTES:
1. THE CONTRACTOR SHALL NOT DREDGE BEYOND THE BORROW AREA LIMITS SHOWN ON THE DRAWINGS.
  2. EXCAVATION VOLUME = 7,120,700 CU. YD.
  3. BORROW AREA POINTS REFERENCED FROM TOP OF CUT.
  4. BACKGROUND IMAGERY WAS TAKEN IN OCTOBER OF 2010.



**LEGEND**

- BORROW AREA
- NAVIGATION CHANNEL
- PROPOSED DREDGE PIPELINE CORRIDOR
- REVETMENT
- DREDGE ANCHOR LIMITS
- USACE BORROW AREA #1
- RAILROAD
- MISSISSIPPI RIVER MILE (AHP)
- BUOY MARKING DREDGE ANCHOR LIMITS

**COASTAL PROTECTION AND RESTORATION AUTHORITY**  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

APPLICATION BY:  
NATIONAL MARINE FISHERIES SERVICE  
LSU, SOUTH STADIUM DRIVE  
BATON ROUGE, LA 70803

DESIGNED BY: RUSS JOFFRION, P.E. APPROVED BY: MAURY CHATELLIER, P.E.

DRAWN BY: KRISTI CANTU

BAYOU DUPONT MARSH AND RIDGE CREATION

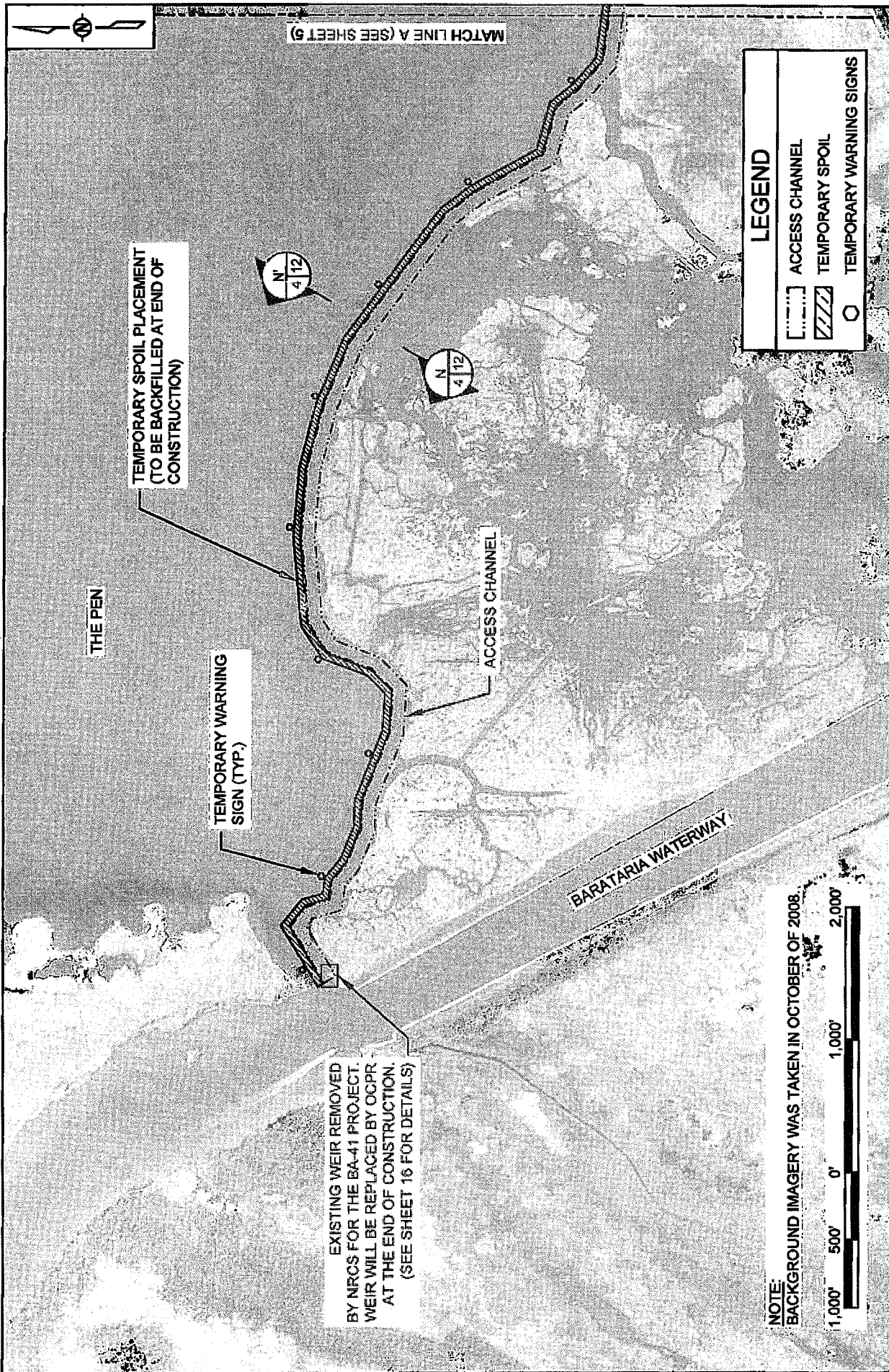
STATE PROJECT NUMBER: BA-48

FEDERAL PROJECT NUMBER: BA-48

ALLIANCE ANCHORAGE BORROW AREA LAYOUT

DATE: JULY 2011 (MOD DEC. 12, 2012)

SHEET 3 OF 35



**LEGEND**

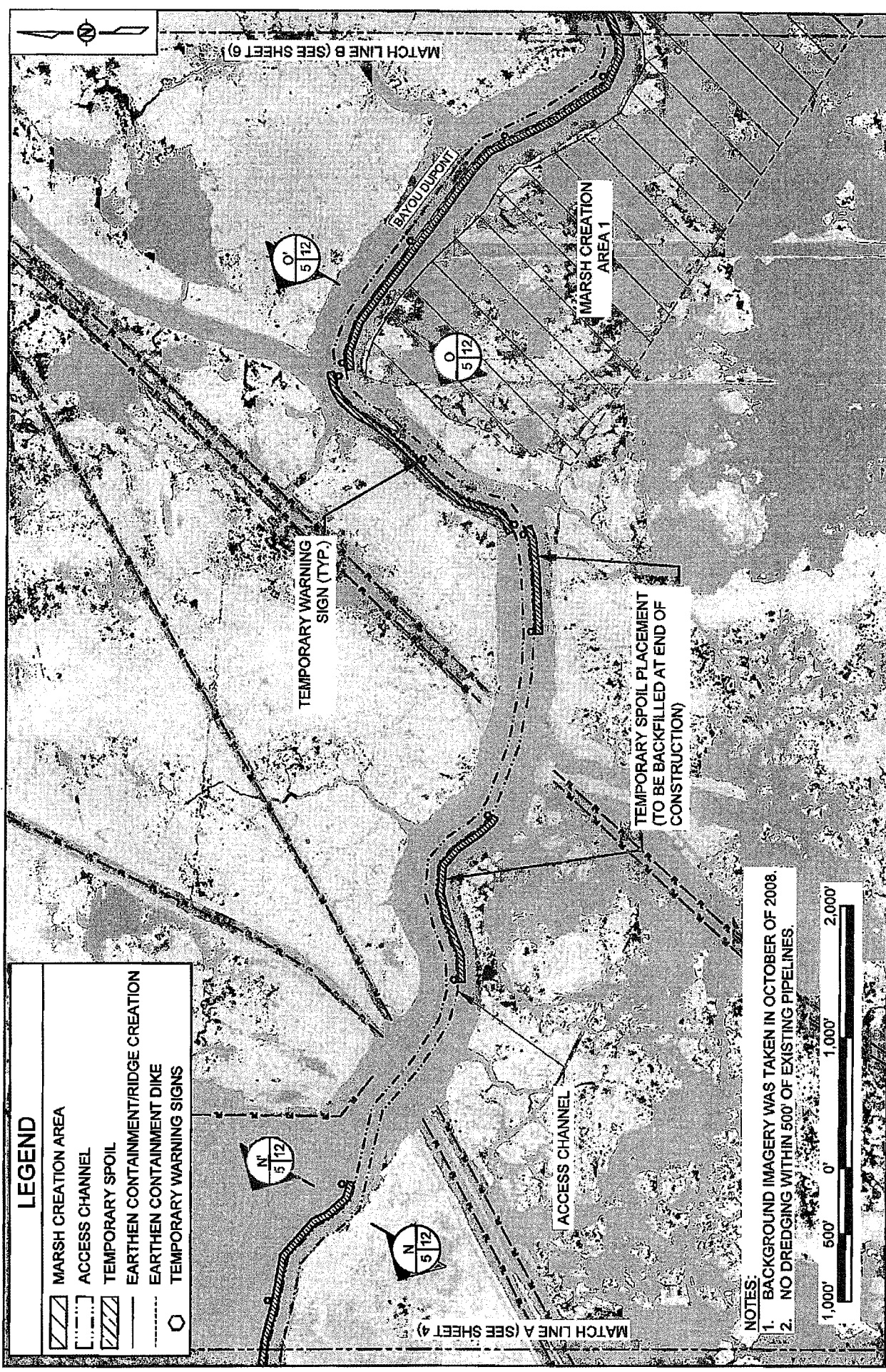
ACCESS CHANNEL  
 TEMPORARY SPOIL  
 TEMPORARY WARNING SIGNS

NOTE:  
BACKGROUND IMAGERY WAS TAKEN IN OCTOBER OF 2008.

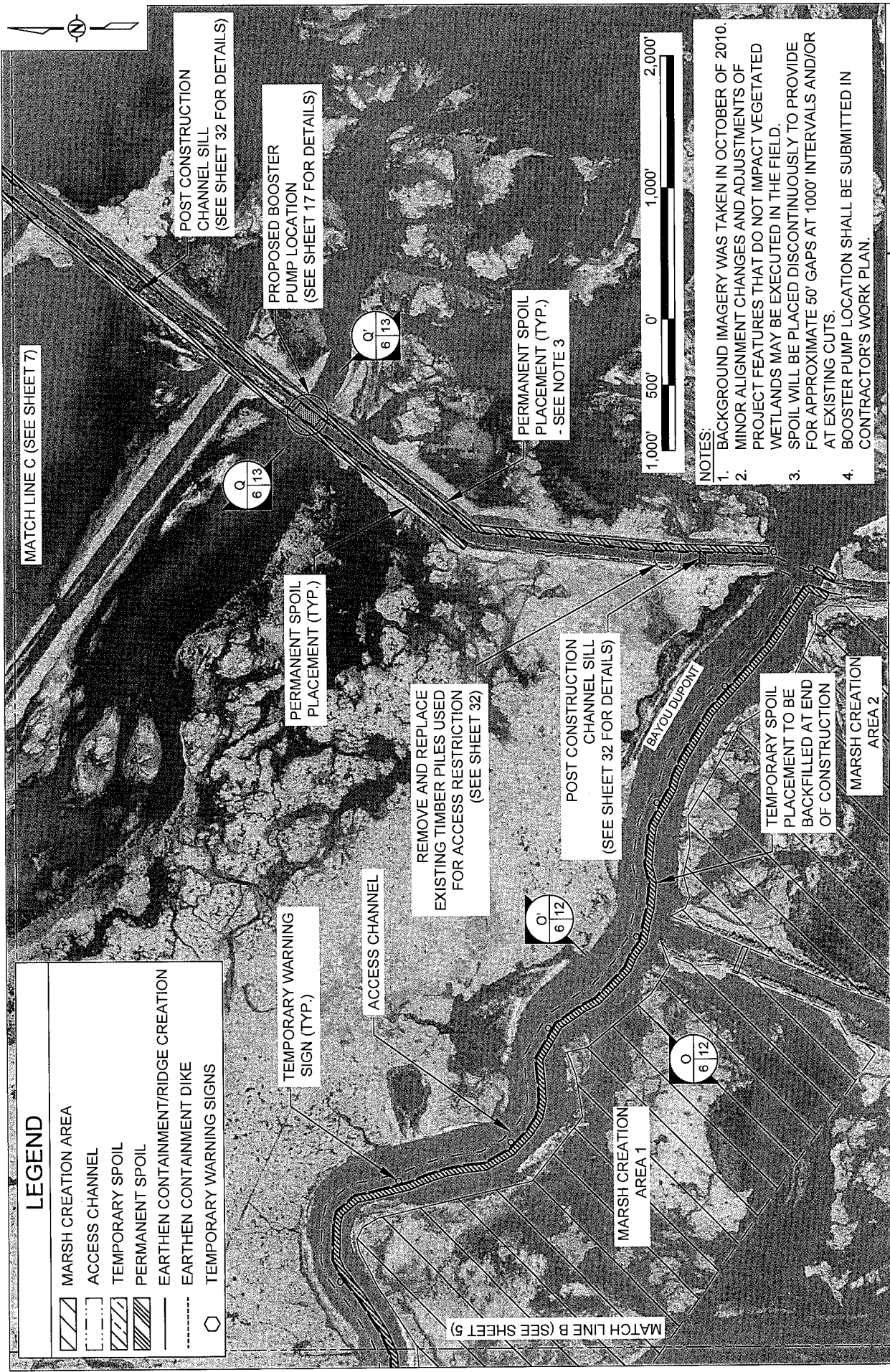


APPLICATION BY: NATIONAL MARINE FISHERIES SERVICE LSU SOUTH STADIUM DRIVE BATON ROUGE, LA 70803	<b>COASTAL PROTECTION AND RESTORATION AUTHORITY</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BAYOU DUPONT MARSH AND RIDGE CREATION	PLAN VIEW
DRAWN BY: KRISTI CANTU	DESIGNED BY: RUSS JOFFRION, P.E. APPROVED BY: MAURY CHATELLIER, P.E.	STATE PROJECT NUMBER: BA-46 FEDERAL PROJECT NUMBER: BA-46	DATE: JULY 2011 SHEET 4 OF 35





APPLICATION BY: NATIONAL MARINE FISHERIES SERVICE LSU SOUTH STADIUM DRIVE BATON ROUGE, LA 70803	<b>COASTAL PROTECTION AND RESTORATION AUTHORITY</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BAYOU DUPONT MARSH AND RIDGE CREATION	PLAN VIEW
DRAWN BY: KRISTI CANTU	DESIGNED BY: RUSS JOFFRION, P.E. APPROVED BY: MAURY CHATELLIER, P.E.	STATE PROJECT NUMBER: BA-48 FEDERAL PROJECT NUMBER: BA-48	DATE: JULY 2011 SHEET 5 OF 35



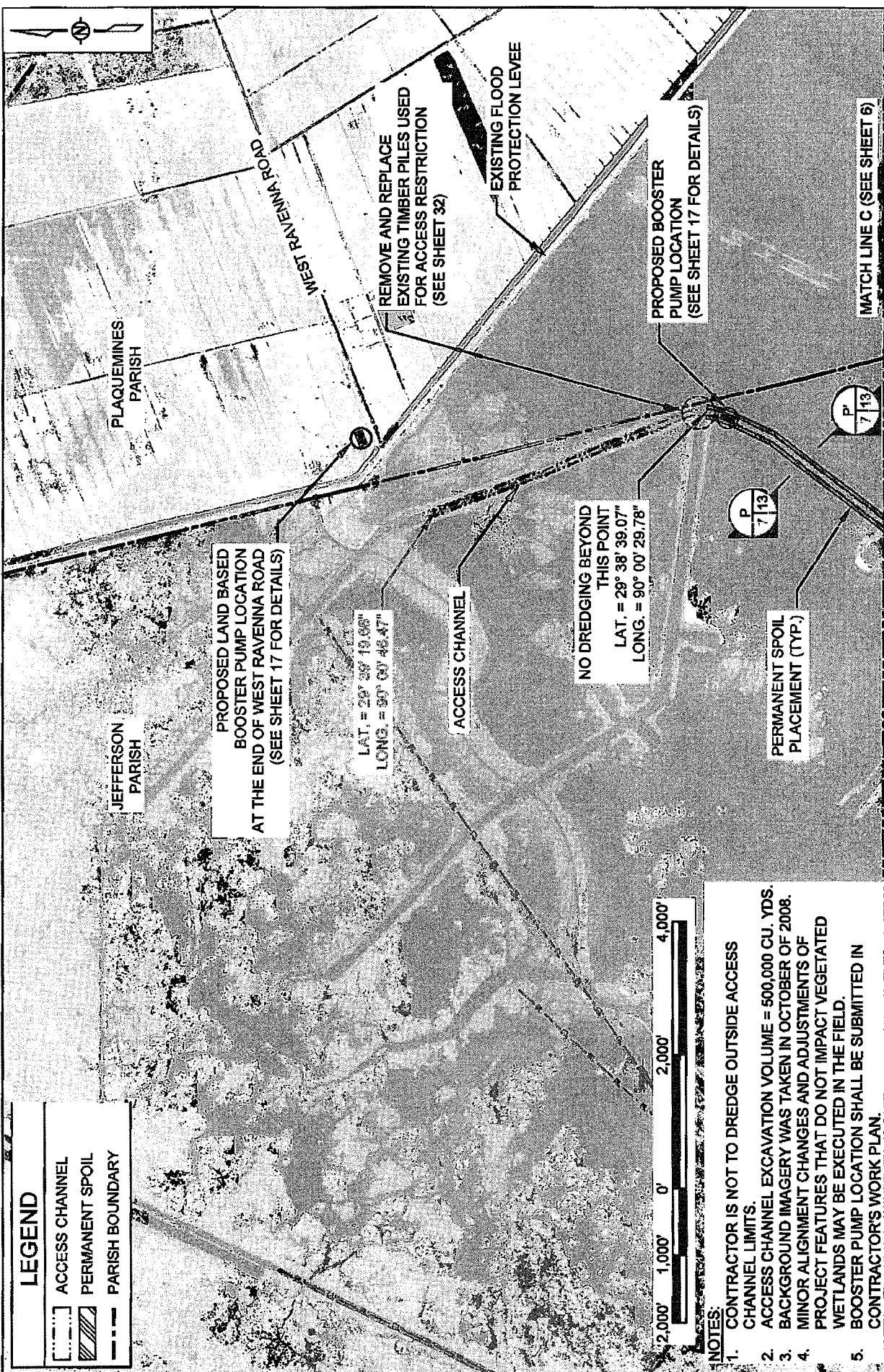
- NOTES:
1. BACKGROUND IMAGERY WAS TAKEN IN OCTOBER OF 2010.
  2. MINOR ALIGNMENT CHANGES AND ADJUSTMENTS OF PROJECT FEATURES THAT DO NOT IMPACT VEGETATED WETLANDS MAY BE EXECUTED IN THE FIELD.
  3. SPOIL WILL BE PLACED DISCONTINUOUSLY TO PROVIDE FOR APPROXIMATE 50' GAPS AT 1000' INTERVALS AND/OR AT EXISTING CUTS.
  4. BOOSTER PUMP LOCATION SHALL BE SUBMITTED IN CONTRACTOR'S WORK PLAN.



LEGEND	
	MARSH CREATION AREA
	ACCESS CHANNEL
	TEMPORARY SPOIL
	PERMANENT SPOIL
	EARTHEN CONTAINMENT/RIDGE CREATION
	EARTHEN CONTAINMENT DIKE
	TEMPORARY WARNING SIGNS

APPLICATION BY: NATIONAL MARINE FISHERIES SERVICE LSU, SOUTH STADIUM DRIVE BATON ROUGE, LA 70803	COASTAL PROTECTION AND RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801		BAYOU DUPONT MARSH AND RIDGE CREATION	PLAN VIEW
	DESIGNED BY: RUSS JOFFRION, P.E.	APPROVED BY: MAURY CHATELLIER, P.E.	STATE PROJECT NUMBER: BA-48 FEDERAL PROJECT NUMBER: BA-48	DATE: JULY 2011 (MOD. MAR. 20, 2013) SHEET 6 OF 35



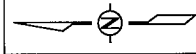


**LEGEND**

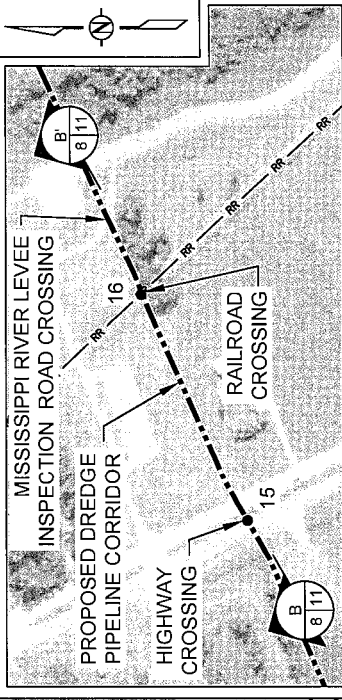
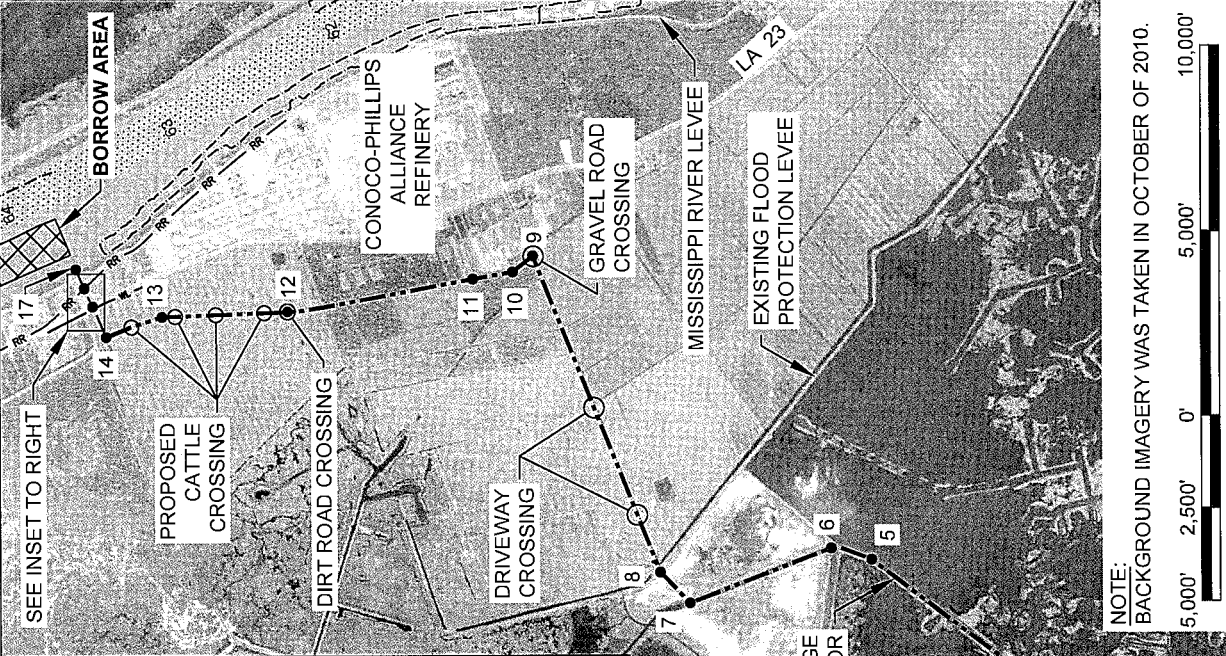
- ACCESS CHANNEL
- PERMANENT SPOIL
- PARISH BOUNDARY

- NOTES:**
1. CONTRACTOR IS NOT TO DREDGE OUTSIDE ACCESS CHANNEL LIMITS.
  2. ACCESS CHANNEL EXCAVATION VOLUME = 500,000 CU. YDS.
  3. BACKGROUND IMAGERY WAS TAKEN IN OCTOBER OF 2008.
  4. MINOR ALIGNMENT CHANGES AND ADJUSTMENTS OF PROJECT FEATURES THAT DO NOT IMPACT VEGETATED WETLANDS MAY BE EXECUTED IN THE FIELD.
  5. BOOSTER PUMP LOCATION SHALL BE SUBMITTED IN CONTRACTOR'S WORK PLAN.

APPLICATION BY: NATIONAL MARINE FISHERIES SERVICE LSU, SOUTH STADIUM DRIVE BATON ROUGE, LA 70803	<b>COASTAL PROTECTION AND RESTORATION AUTHORITY</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801		BAYOU DUPONT MARSH AND RIDGE CREATION	PLAN VIEW
	DESIGNED BY: RUSS JOFFRION, P.E. / APPROVED BY: MAURY CHATELLIER, P.E.			
	DRAWN BY: KRISTI CANTU			
			STATE PROJECT NUMBER: BA-48	DATE: JULY 2011
			FEDERAL PROJECT NUMBER: BA-48	SHEET 7 OF 35



CROSSINGS		
CUT/FILL	CUT & FILL VOLUME (CU. YDS.)	AREA (ACRES)
<b>CRUSHED STONE FILL</b>		
LEVEE INSPECTION ROAD	400	0.16
GRAVEL ROAD	400	0.16
FLOOD PROTECTION LEVEE	400	0.16
DIRT ROAD	400	0.16
DRIVEWAY X 2	800	0.32
	2,400	0.96
<b>DIRT FILL</b>		
HIGHWAY	3,130	0.17
RAILROAD	2,590	0.16
CATTLE X 4	1,590	0.64
	7,310	0.97
<b>MISSISSIPPI RIVER BORROW AREA</b>		
CANAL CROSSING	1,920	1.9
	11,630	3.83
<b>TOTAL</b>		



SCALE: 1" = 400'

### PROPOSED DREDGE PIPELINE CORRIDOR

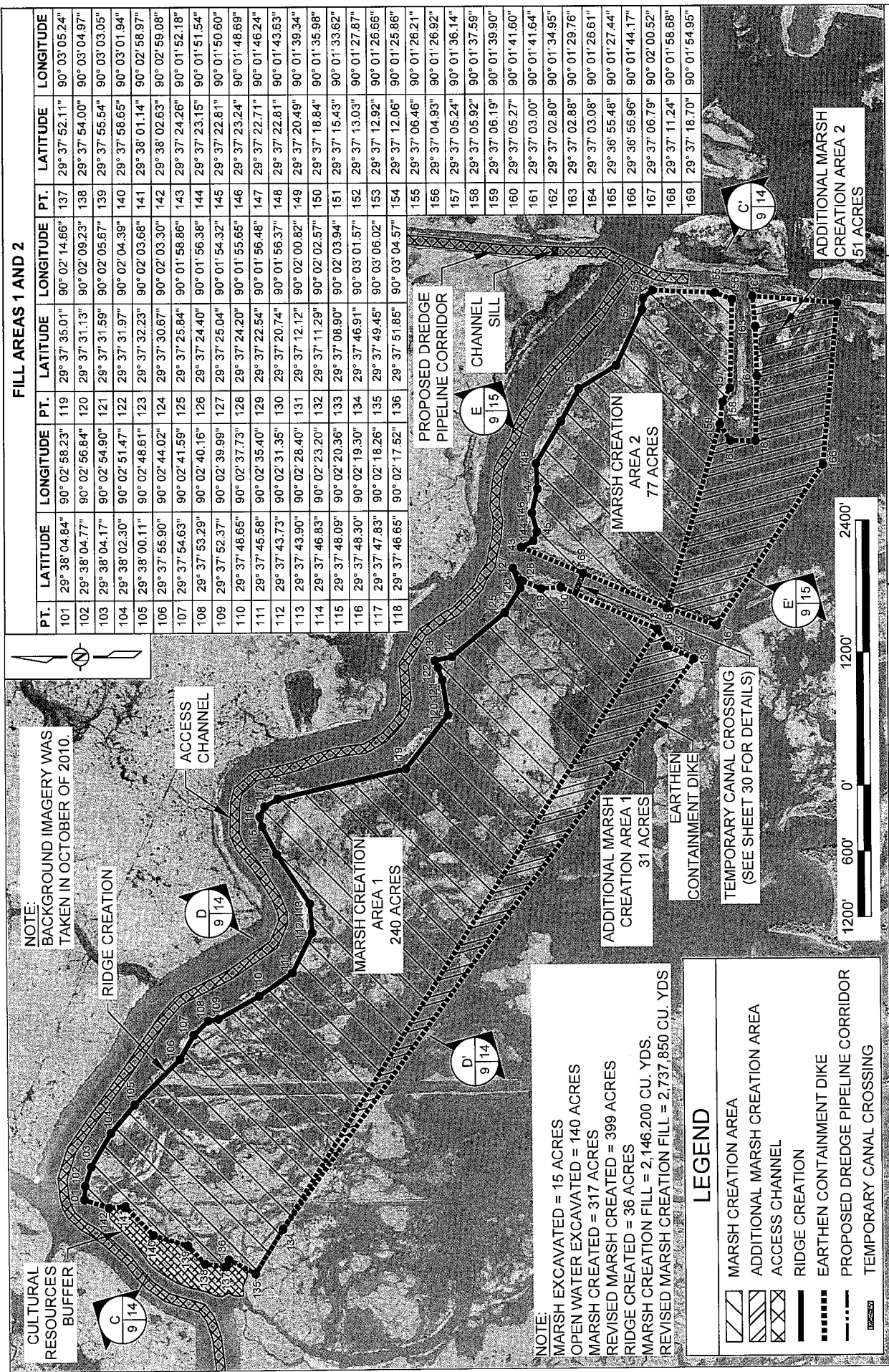
PT.	LATITUDE	LONGITUDE
1	29° 37' 11.18"	90° 01' 24.30"
2	29° 37' 16.41"	90° 01' 21.44"
3	29° 37' 22.94"	90° 01' 21.58"
4	29° 37' 38.71"	90° 01' 19.40"
5	29° 38' 30.16"	90° 00' 33.62"
6	29° 38' 40.98"	90° 00' 29.97"
7	29° 39' 19.18"	90° 00' 46.11"
8	29° 39' 27.06"	90° 00' 36.52"
9	29° 40' 00.10"	89° 58' 59.20"
10	29° 40' 05.58"	89° 59' 04.03"
11	29° 40' 16.32"	89° 59' 06.00"
12	29° 41' 06.43"	89° 59' 15.15"
13	29° 41' 40.40"	89° 59' 16.32"
14	29° 41' 55.64"	89° 59' 22.28"
15	29° 41' 59.20"	89° 59' 12.86"
16	29° 42' 01.43"	89° 59' 07.24"
17	29° 42' 03.65"	89° 59' 01.44"

### LEGEND

	MARSH CREATION AREA
	BORROW AREA
	EARTHEN CONTAINMENT/RIDGE CREATION
	EARTHEN CONTAINMENT DIKE
	PROPOSED DREDGE PIPELINE CORRIDOR
	RAILROAD
	MISSISSIPPI RIVER MILE (AHP)

APPLICATION BY:  NATIONAL MARINE FISHERIES SERVICE LSU, SOUTH STADIUM DRIVE BATON ROUGE, LA. 70803	COASTAL PROTECTION AND RESTORATION AUTHORITY  460 LAUREL STREET  BATON ROUGE, LOUISIANA 70801		BAYOU DUPONT MARSH AND RIDGE CREATION	DREDGE PIPELINE CORRIDOR LAYOUT
DRAWN BY: KRISTI CANTU	DESIGNED BY: RUSS JOFFRION, P.E.	APPROVED BY: MAURY CHATELLIER, P.E.	STATE PROJECT NUMBER: BA-48	DATE: JULY 2011 (MOD. MAR. 20, 2013)
			FEDERAL PROJECT NUMBER: BA-48	SHEET 8 OF 35





**FILL AREAS 1 AND 2**

PT.	LATITUDE	LONGITUDE	PT.	LATITUDE	LONGITUDE	PT.	LATITUDE	LONGITUDE
101	29° 38' 04.84"	90° 02' 58.23"	119	29° 37' 35.01"	90° 02' 14.66"	137	29° 37' 52.11"	90° 03' 05.24"
102	29° 38' 04.77"	90° 02' 56.84"	120	29° 37' 31.13"	90° 02' 09.23"	138	29° 37' 54.00"	90° 03' 04.97"
103	29° 38' 04.17"	90° 02' 54.90"	121	29° 37' 31.59"	90° 02' 05.67"	139	29° 37' 55.54"	90° 03' 03.05"
104	29° 38' 02.30"	90° 02' 51.47"	122	29° 37' 31.97"	90° 02' 04.39"	140	29° 37' 58.65"	90° 03' 01.94"
105	29° 38' 00.11"	90° 02' 48.61"	123	29° 37' 32.23"	90° 02' 03.68"	141	29° 38' 01.14"	90° 02' 58.97"
106	29° 37' 55.90"	90° 02' 44.02"	124	29° 37' 30.67"	90° 02' 03.30"	142	29° 38' 02.63"	90° 02' 59.08"
107	29° 37' 54.63"	90° 02' 41.59"	125	29° 37' 25.84"	90° 01' 58.86"	143	29° 37' 24.26"	90° 01' 52.18"
108	29° 37' 53.29"	90° 02' 40.16"	126	29° 37' 24.40"	90° 01' 56.38"	144	29° 37' 23.15"	90° 01' 51.54"
109	29° 37' 52.37"	90° 02' 39.99"	127	29° 37' 25.04"	90° 01' 54.32"	145	29° 37' 22.81"	90° 01' 50.60"
110	29° 37' 48.65"	90° 02' 37.73"	128	29° 37' 24.20"	90° 01' 55.65"	146	29° 37' 23.24"	90° 01' 48.69"
111	29° 37' 45.58"	90° 02' 35.40"	129	29° 37' 22.54"	90° 01' 56.48"	147	29° 37' 22.71"	90° 01' 46.24"
112	29° 37' 43.73"	90° 02' 31.35"	130	29° 37' 20.74"	90° 01' 56.37"	148	29° 37' 22.81"	90° 01' 43.63"
113	29° 37' 43.90"	90° 02' 28.40"	131	29° 37' 12.12"	90° 02' 00.82"	149	29° 37' 20.49"	90° 01' 39.34"
114	29° 37' 46.83"	90° 02' 23.20"	132	29° 37' 11.29"	90° 02' 02.57"	150	29° 37' 18.84"	90° 01' 35.98"
115	29° 37' 48.09"	90° 02' 20.36"	133	29° 37' 08.90"	90° 02' 03.94"	151	29° 37' 15.43"	90° 01' 33.62"
116	29° 37' 48.30"	90° 02' 19.30"	134	29° 37' 46.91"	90° 03' 01.57"	152	29° 37' 13.03"	90° 01' 27.87"
117	29° 37' 47.83"	90° 02' 18.26"	135	29° 37' 49.45"	90° 03' 06.02"	153	29° 37' 12.92"	90° 01' 26.66"
118	29° 37' 46.65"	90° 02' 17.52"	136	29° 37' 51.85"	90° 03' 04.57"	154	29° 37' 12.06"	90° 01' 25.86"
						155	29° 37' 06.46"	90° 01' 26.21"
						156	29° 37' 04.93"	90° 01' 26.92"
						157	29° 37' 05.24"	90° 01' 36.14"
						158	29° 37' 05.92"	90° 01' 37.59"
						159	29° 37' 06.19"	90° 01' 39.90"
						160	29° 37' 05.27"	90° 01' 41.60"
						161	29° 37' 03.00"	90° 01' 41.64"
						162	29° 37' 02.80"	90° 01' 34.95"
						163	29° 37' 02.88"	90° 01' 29.76"
						164	29° 37' 03.08"	90° 01' 26.61"
						165	29° 36' 55.48"	90° 01' 27.44"
						166	29° 36' 56.96"	90° 01' 44.17"
						167	29° 37' 06.79"	90° 02' 00.52"
						168	29° 37' 11.24"	90° 01' 58.68"
						169	29° 37' 18.70"	90° 01' 54.95"

**LEGEND**

- MARSH CREATION AREA
- ADDITIONAL MARSH CREATION AREA
- ACCESS CHANNEL
- RIDGE CREATION
- EARTHEN CONTAINMENT DIKE
- PROPOSED DREDGE PIPELINE CORRIDOR
- TEMPORARY CANAL CROSSING

APPLICATION BY:  
NATIONAL MARINE FISHERIES SERVICE  
LSU, SOUTH STADIUM DRIVE  
BATON ROUGE, LA 70803

COASTAL PROTECTION AND  
RESTORATION AUTHORITY  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

BAYOU DUPONT MARSH  
AND RIDGE CREATION

MARSH CREATION  
AREA LAYOUT

DRAWN BY: KRISTI CANTU

DESIGNED BY: RUSS JOFFRION, P.E.

APPROVED BY: MAURY CHATELLIER, P.E.

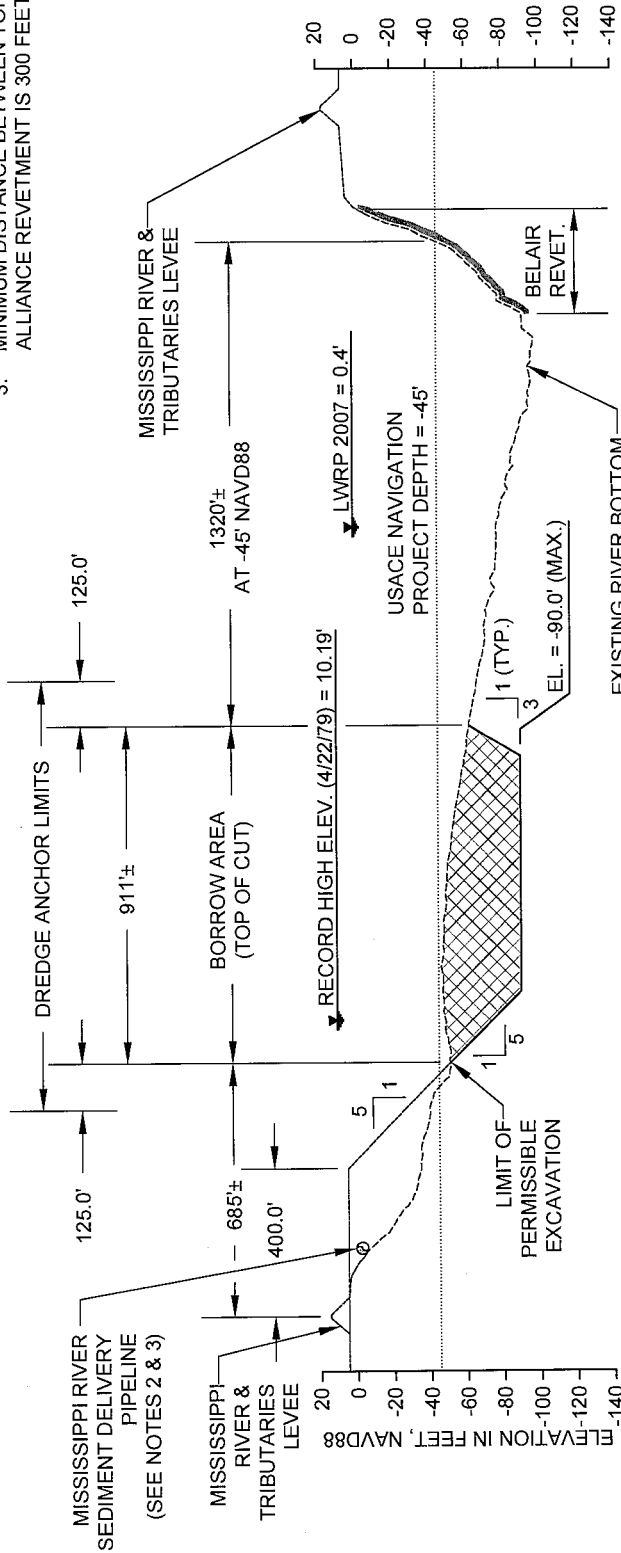
FEDERAL PROJECT NUMBER: BA-48

STATE PROJECT NUMBER: BA-48

DATE: JULY 2011 (MOD. APR. 1, 2013)  
SHEET 9 OF 35

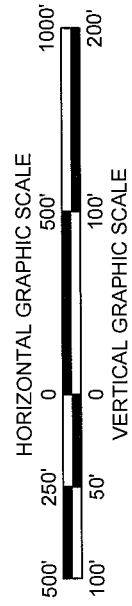
**NOTES:**

1. ALL ELEVATIONS ARE GIVEN IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) U.S. SURVEY FEET.
2. RIVER BOTTOM PROFILE BASED ON SURVEY DONE ON AUGUST 17, 2011.
3. MINIMUM DISTANCE BETWEEN TOP OF CUT AND TOE OF ALLIANCE REVETMENT IS 300 FEET.



**BORROW AREA**

A-A'  
10+3



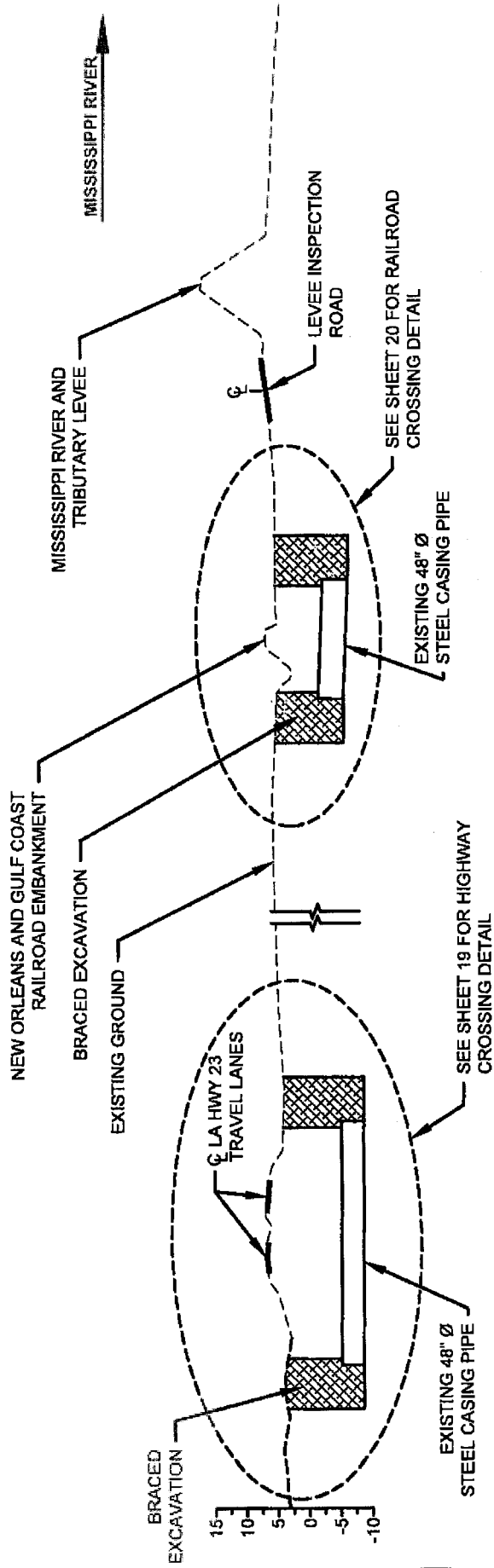
LEGEND	
---	EXISTING RIVER BOTTOM
▨	BORROW AREA

- DREDGING NOTES:**
1. THE CONTRACTOR WILL BE REQUIRED TO ANCHOR WITHIN THE DREDGE ANCHOR LIMITS SHOWN ON THE DRAWINGS. ANCHORING BEYOND THE DREDGE ANCHOR LIMITS SHOWN ON THE DRAWINGS IS NOT ALLOWED.
  2. THE DREDGE ANCHOR LIMIT COORDINATES, POINTS A AND B, AND ALL DREDGE ANCHORS SHALL BE MARKED WITH BUOYS DURING DREDGING OPERATIONS.
  3. THE CONTRACTOR WILL BE REQUIRED TO STAY WITHIN THE BORROW AREA LIMITS SHOWN ON THE DRAWINGS. DREDGING BEYOND THE BORROW AREA LIMITS SHOWN ON THE DRAWINGS IS NOT ALLOWED.
  4. THE CONTRACTOR WILL BE REQUIRED TO SUBMIT A DAILY COMMUNICATION PLAN TO THE OWNER, THE USACE OPERATIONS DIVISION, AND MNSA DELINEATING THE LOCATION OF THE DREDGE, ATTENDANT PLANT, ANCHOR BUOYS, AND FLOATING PIPELINE AS PER THE OWNER SPECIFICATIONS.

<b>APPLICATION BY:</b> NATIONAL MARINE FISHERIES SERVICES LSU SOUTH STADIUM DRIVE BATON ROUGE, LA 70803	<b>COASTAL PROTECTION AND RESTORATION AUTHORITY</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801		BAYOU DUPONT MARSH AND RIDGE CREATION	TYPICAL SECTION
	DESIGNED BY: RUSS JOFFRION, P.E. APPROVED BY: MAURY CHATELIER, P.E.	STATE PROJECT NUMBER: BA-48 FEDERAL PROJECT NUMBER: BA-48	DATE: JULY 2011 (MOD DEC. 12, 2012)	SHEET 10 OF 35

**DRAWN BY:** KRISTI CANTU





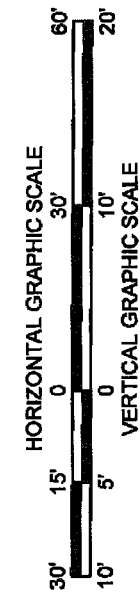
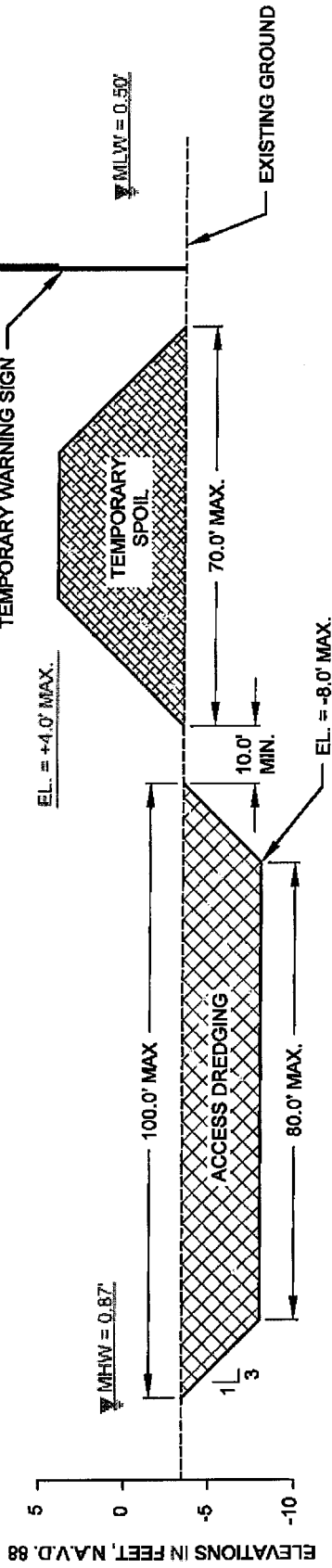
**DREDGE PIPELINE CORRIDOR  
HIGHWAY & RAILROAD CROSSING**



**NOTE:**  
ALL ELEVATIONS ARE GIVEN IN THE NORTH AMERICAN VERTICAL  
DATUM OF 1988 (NAVD 88) U.S. SURVEY FEET.

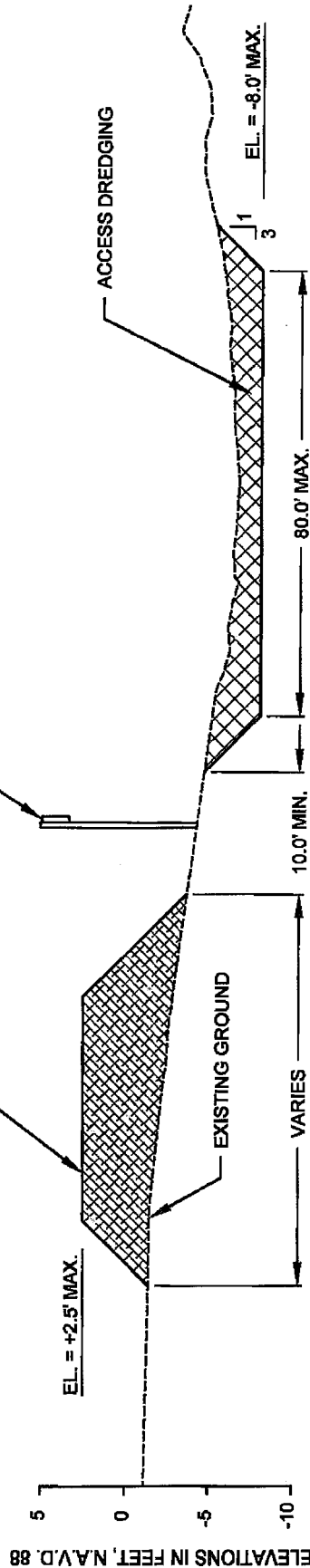
LEGEND	
---	EXISTING GROUND
[Hatched Box]	BRACED EXCAVATION

APPLICATION BY: NATIONAL MARINE FISHERIES SERVICES LSU SOUTH STADIUM DRIVE BATON ROUGE, LA 70803	<b>COASTAL PROTECTION AND RESTORATION AUTHORITY</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801		BAYOU DUPONT MARSH AND RIDGE CREATION		TYPICAL SECTIONS	
	DESIGNED BY: RUSS JOFFRION, P.E.		STATE PROJECT NUMBER: BA-48		DATE: JULY 2011 (MOD. 11/15/12)	
	DRAWN BY: KRISTI CANTU		FEDERAL PROJECT NUMBER: BA-48		SHEET 11 OF 35	



### ACCESS CHANNEL & TEMPORARY SPOIL

NOTE:  
ALL ELEVATIONS ARE GIVEN IN THE  
NORTH AMERICAN VERTICAL DATUM OF  
1988 (NAVD 88) U.S. SURVEY FEET.

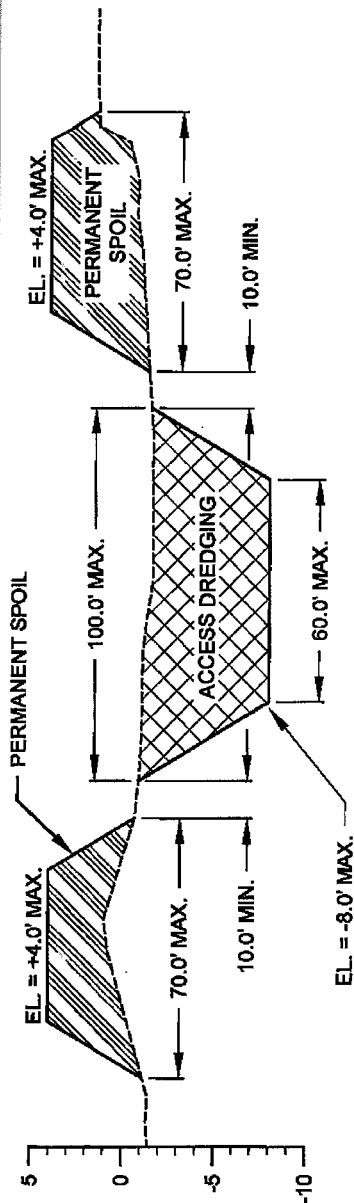


### ACCESS CHANNEL & TEMPORARY SPOIL

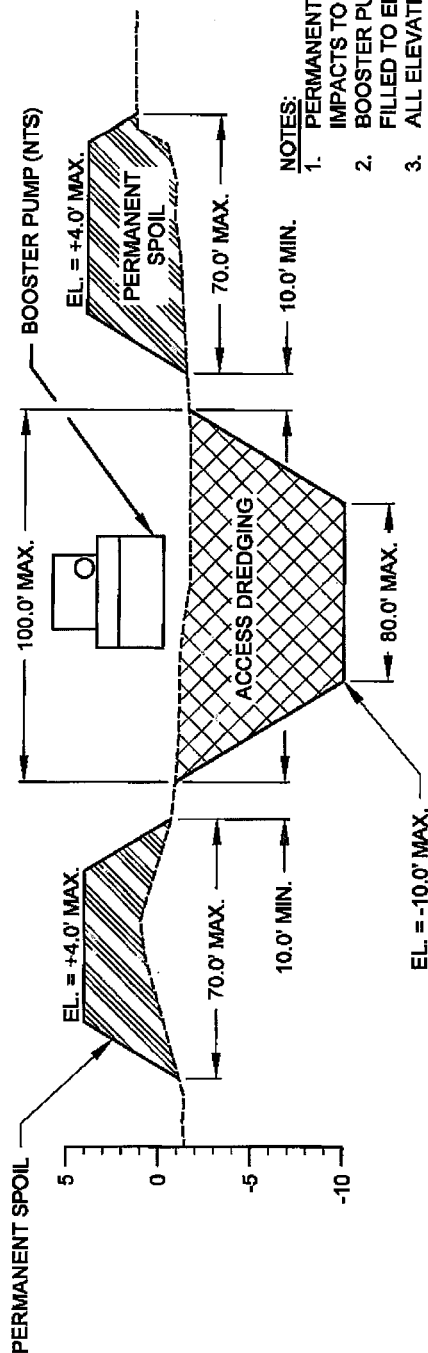
LEGEND
EXISTING GROUND/WATER BOTTOM
ACCESS DREDGING
TEMPORARY SPOIL

APPLICATION BY: NATIONAL MARINE FISHERIES SERVICE LSU, SOUTH STADIUM DRIVE BATON ROUGE, LA 70803	COASTAL PROTECTION AND RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BAYOU DUPONT MARSH AND RIDGE CREATION	TYPICAL SECTIONS
DRAWN BY: KRISTI CANTU	DESIGNED BY: RUSS JOFFRION, P.E.	STATE PROJECT NUMBER: BA-48	DATE: JULY 2011
	APPROVED BY: MAURY CHATELLIER, P.E.	FEDERAL PROJECT NUMBER: BA-48	SHEET 12 OF 35





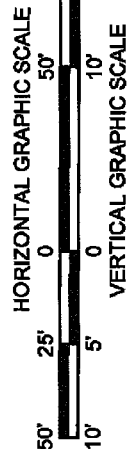
### ACCESS CHANNEL & PERMANENT SPOIL



- NOTES:
1. PERMANENT SPOIL TO BE PLACED TO AVOID IMPACTS TO EXISTING MARSH.
  2. BOOSTER PUMP LOCATION TO BE BACK FILLED TO ELEVATION -8.0' NAVD88.
  3. ALL ELEVATIONS ARE GIVEN IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) U.S. SURVEY FEET.

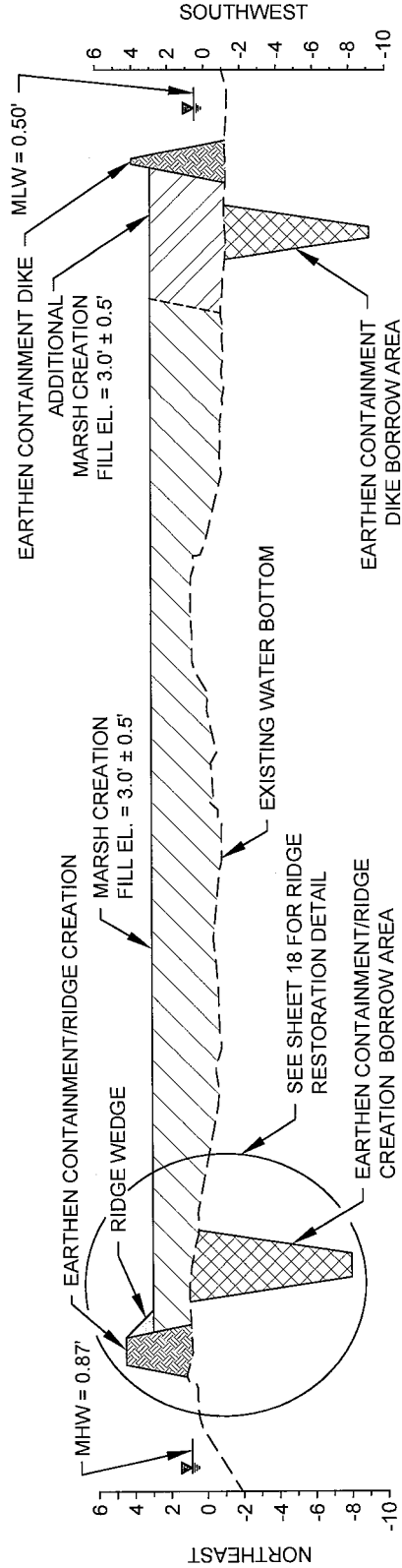
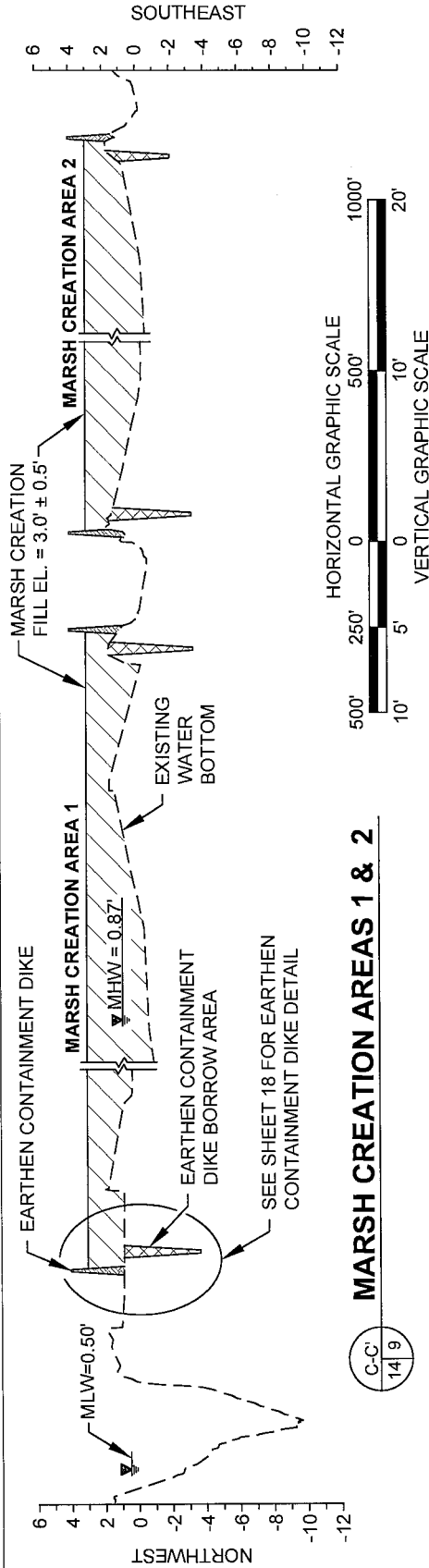
LEGEND	
---	EXISTING GROUND/WATER BOTTOM
XXXX	ACCESS DREDGING
////	PERMANENT SPOIL

### ACCESS CHANNEL FOR BOOSTER PUMP



APPLICATION BY: NATIONAL MARINE FISHERIES SERVICE LSU, SOUTH STADIUM DRIVE BATON ROUGE, LA 70803	COASTAL PROTECTION AND RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801		BAYOU DUPONT MARSH AND RIDGE CREATION	TYPICAL SECTIONS
	DESIGNED BY: RUSS JOFFRION, P.E.	APPROVED BY: MAURY CHATELLIER, P.E.	STATE PROJECT NUMBER: BA-48 FEDERAL PROJECT NUMBER: BA-48	DATE: JULY 2011 SHEET 13 OF 35

DRAWN BY: KRISTI CANTU



### MARSH CREATION AREA 1

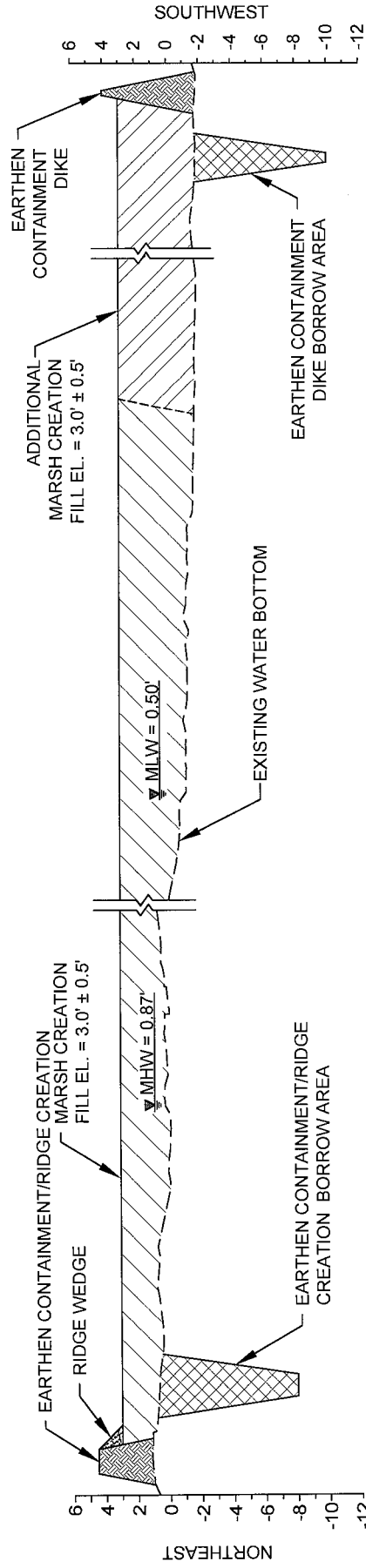
D-D' 14 | 9

LEGEND	
---	EXISTING GROUNDWATER BOTTOM
XXXX	BORROW AREA
XXXX	EARTHEN CONTAINMENT/RIDGE CREATION
XXXX	MARSH FILL
XXXX	ADDITIONAL MARSH FILL
XXXX	RIDGE WEDGE

NOTE: ALL ELEVATIONS ARE GIVEN IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) U.S. SURVEY FEET.

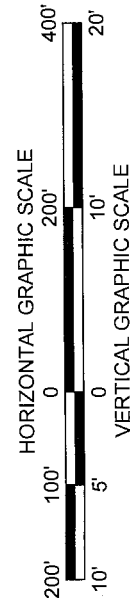
APPLICATION BY: NATIONAL MARINE FISHERIES SERVICE LSU SOUTH STADIUM DRIVE BATON ROUGE, LA 70803	<b>COASTAL PROTECTION AND RESTORATION AUTHORITY</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BAYOU DUPONT MARSH AND RIDGE CREATION	TYPICAL SECTIONS
DRAWN BY: KRISTI CANTU	DESIGNED BY: RUSS JOFFRION, P.E. APPROVED BY: MAURY CHATELLIER, P.E.	STATE PROJECT NUMBER: BA-48 FEDERAL PROJECT NUMBER: BA-48	DATE: JULY 2011 (MOD. APRIL 11, 2013) SHEET 14 OF 35





## MARSH CREATION AREA 2

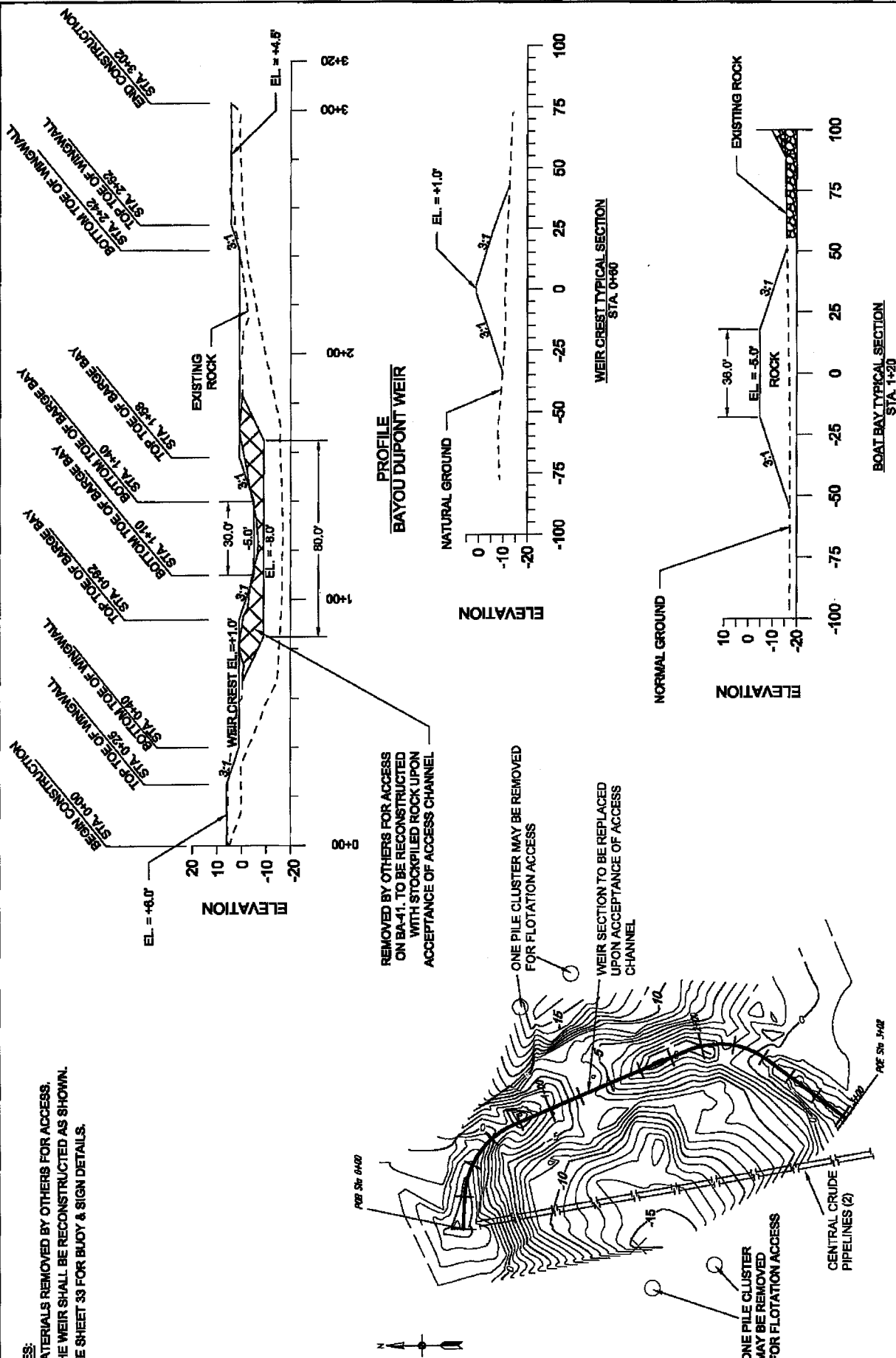
E-E'  
15' 9"



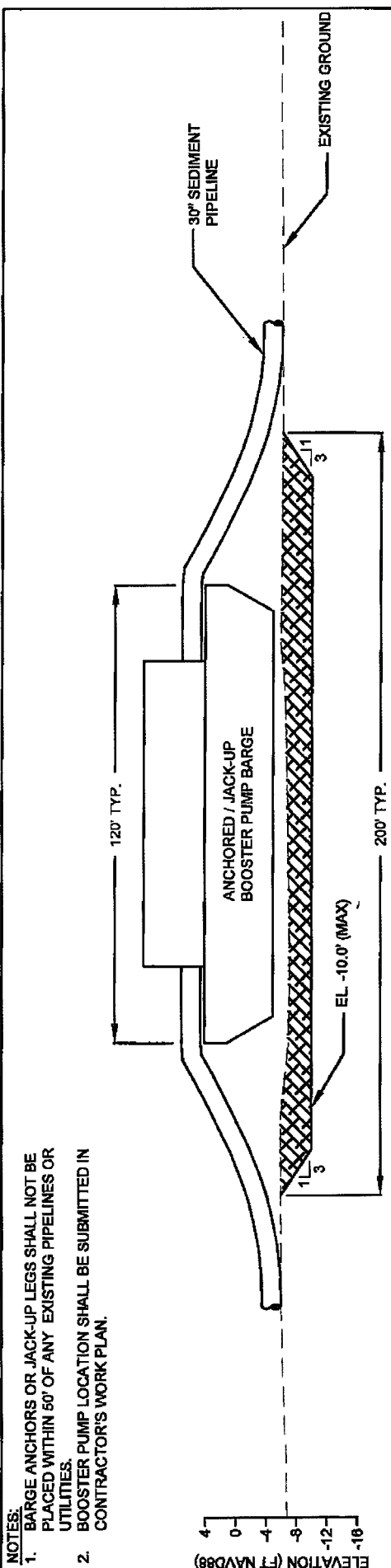
LEGEND	
---	EXISTING GROUND/WATER BOTTOM
XXXX	BORROW AREA
XXXX	EARTHEN CONTAINMENT/RIDGE CREATION
XXXX	MARSH FILL
XXXX	ADDITIONAL MARSH FILL
XXXX	RIDGE WEDGE

APPLICATION BY: NATIONAL MARINE FISHERIES SERVICE LSU, SOUTH STADIUM DRIVE BATON ROUGE, LA 70803	COASTAL PROTECTION AND RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801		BAYOU DUPONT MARSH AND RIDGE CREATION	TYPICAL SECTIONS
	DESIGNED BY: RUSS JOFFRION, P.E. DRAWN BY: KRISTI CANTU	APPROVED BY: MAURY CHATELLIER, P.E. DATE: JULY 2011 (MOD. APRIL 11, 2013)	STATE PROJECT NUMBER: BA-48 FEDERAL PROJECT NUMBER: BA-48	SHEET 15 OF 35

- NOTES:
1. MATERIALS REMOVED BY OTHERS FOR ACCESS.
  2. THE WEIR SHALL BE RECONSTRUCTED AS SHOWN.
  3. SEE SHEET 33 FOR BUOY & SIGN DETAILS.

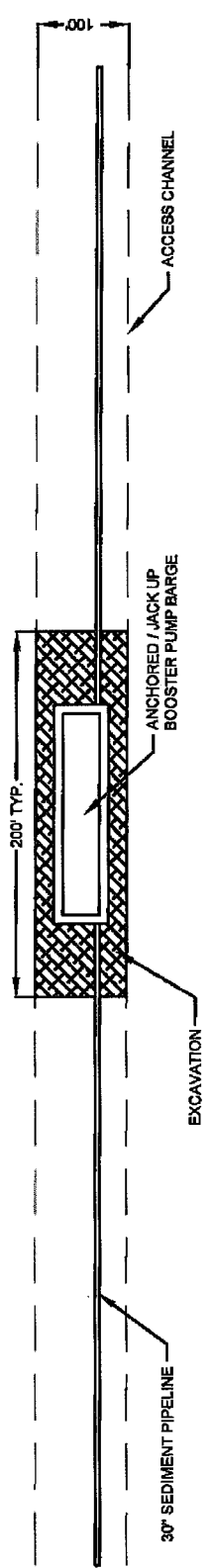


APPLICATION BY: NATIONAL MARINE FISHERIES SERVICE LSU, SOUTH STADIUM DRIVE BATON ROUGE, LA 70803	COASTAL PROTECTION AND RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	DESIGNED BY: RUSS JOFFRON, P.E. APPROVED BY: MAURY CHATELIER, P.E.
DRAWN BY: KRISTI CANTU	STATE PROJECT NUMBER: BA-48 FEDERAL PROJECT NUMBER: BA-48	BAYOU DUPONT MARSH AND RIDGE CREATION BAYOU DUPONT WEIR DETAILS DATE: JULY 2011 SHEET 16 OF 35



**BOOSTER PUMP LOCATION PROFILE SECTION**

NOT TO SCALE



**BOOSTER PUMP LOCATION PLAN VIEW**

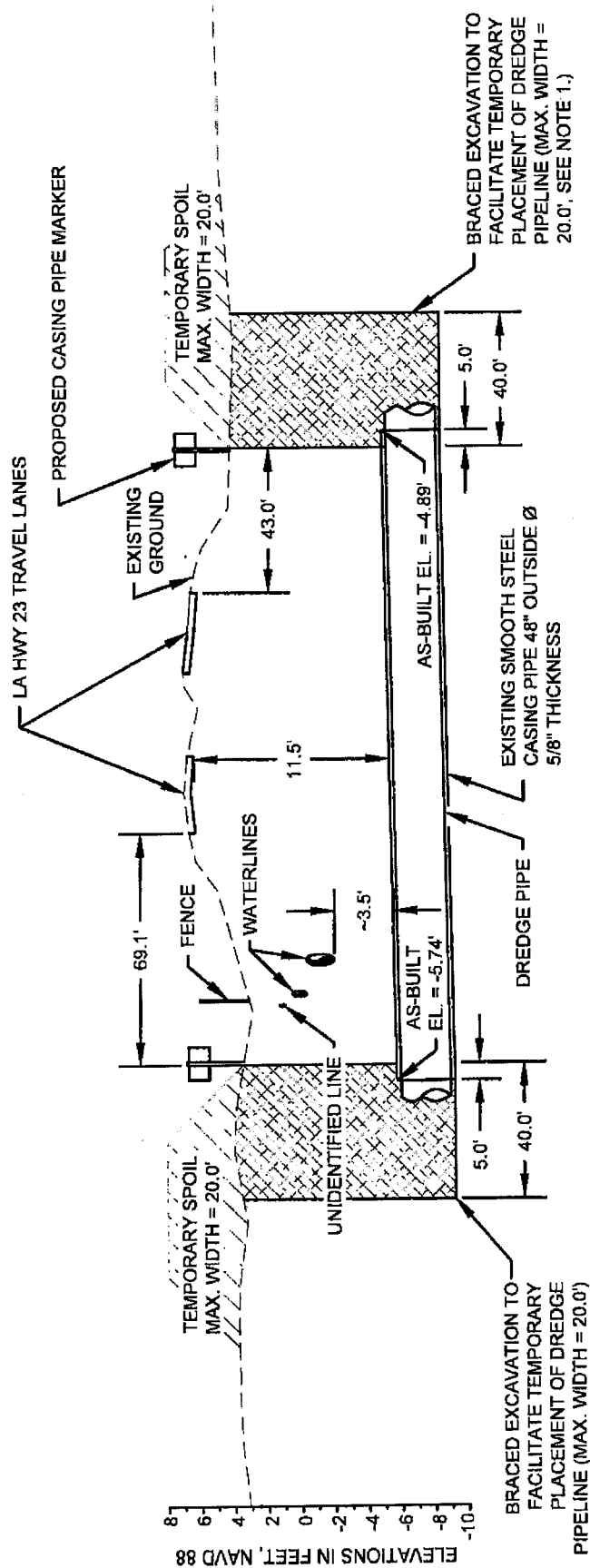
NOT TO SCALE

EXCAVATION FOR  
BOOSTER COOLING

APPLICATION BY: NATIONAL MARINE FISHERIES SERVICE LSU, SOUTH STADIUM DRIVE BATON ROUGE, LA 70803	<b>COASTAL PROTECTION AND RESTORATION AUTHORITY</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BAYOU DUPONT MARSH AND RIDGE CREATION	BOOSTER PUMP SITE TYPICAL DETAILS
DRAWN BY: KRISTI CANTU	DESIGNED BY: RUSS JOFFRION, P.E. APPROVED BY: MAURY CHATELLEIR, P.E.	STATE PROJECT NUMBER: BA-48 FEDERAL PROJECT NUMBER: BA-48	DATE: JULY 2011 SHEET 17 OF 35



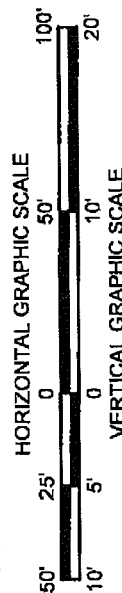
APPLICATION BY:  NATIONAL MARINE FISHERIES SERVICE LSU, SOUTH STADIUM DRIVE BATON ROUGE, LA 70803	<b>COASTAL PROTECTION AND RESTORATION AUTHORITY</b> 490 LAUREL STREET BATON ROUGE, LOUISIANA 70801		BAYOU DUPONT MARSH AND RIDGE CREATION	EARTHEN CONTAINMENT DIKE AND RIDGE DETAILS
DRAWN BY: KRISTI CANTU	DESIGNED BY: RUSS JOFFRION, P.E. APPROVED BY: MAURY CHATELLIER, P.E.		STATE PROJECT NUMBER: BA-48	DATE: JULY 2011
			FEDERAL PROJECT NUMBER: BA-48	SHEET 18 OF 35



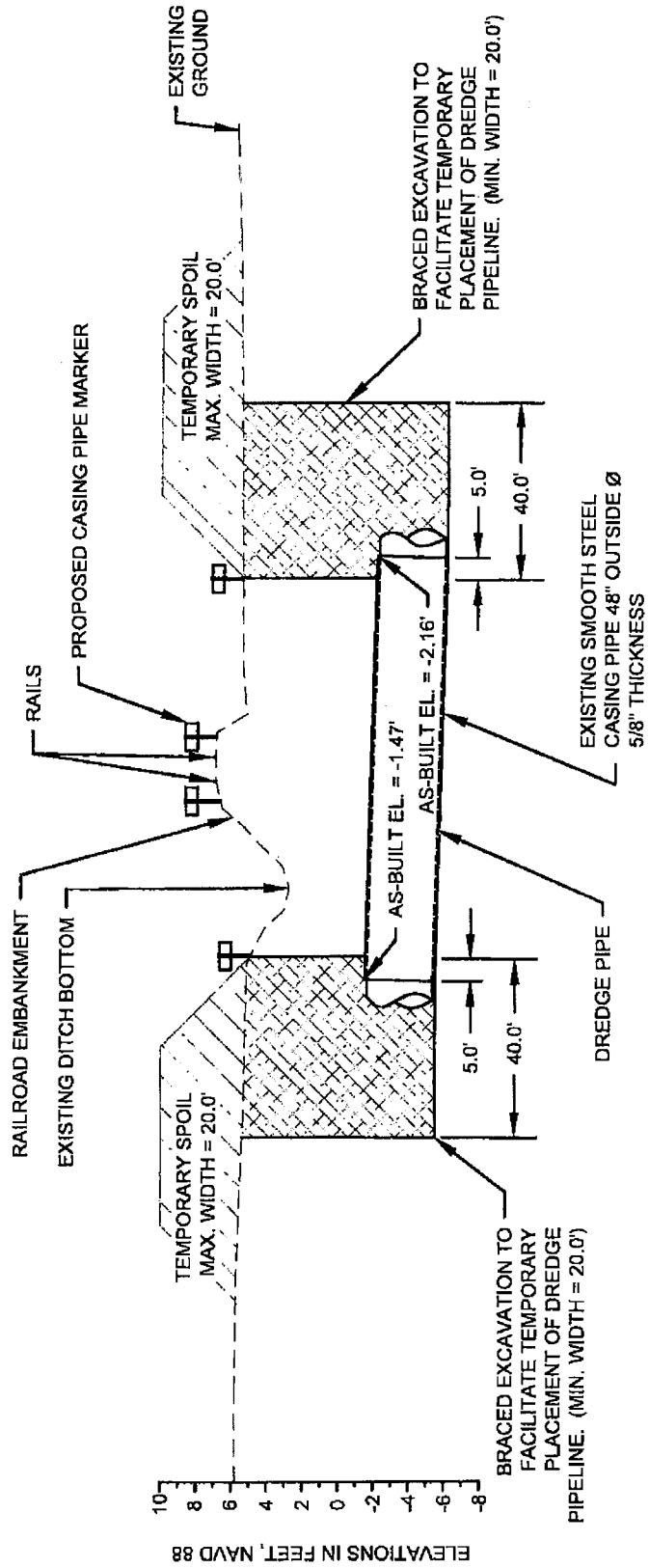
# **HIGHWAY CROSSING DETAIL**

LEGEND	
---	EXISTING GROUND
	BRACED EXCAVATION

- NOTES:**
- TEMPORARY SPOIL SHALL BE PLACED ADJACENT THE EXCAVATION PIT ON BOTH SIDES.
  - THE TEMPORARY SPOIL SHALL BE BACKFILLED INTO EXCAVATION PIT AFTER COMPLETION OF CONSTRUCTION.



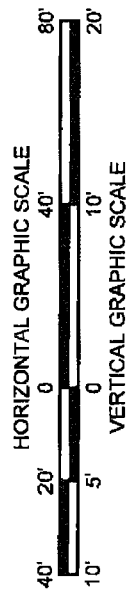
APPLICATION BY: NATIONAL MARINE FISHERIES SERVICE LSU, SOUTH STADIUM DRIVE BATON ROUGE, LA 70803	COASTAL PROTECTION AND RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801		BAYOU DUPONT MARSH AND RIDGE CREATION	HIGHWAY CROSSING DETAIL
			STATE PROJECT NUMBER: BA-48	
DRAWN BY: KRISTI CANTU	DESIGNED BY: RUSS JOFFRION, P.E.		APPROVED BY: MAURY CHATELLIER P.E.	
			FEDERAL PROJECT NUMBER: BA-48	SHEET 19 OF 35



## RAILROAD CROSSING DETAIL

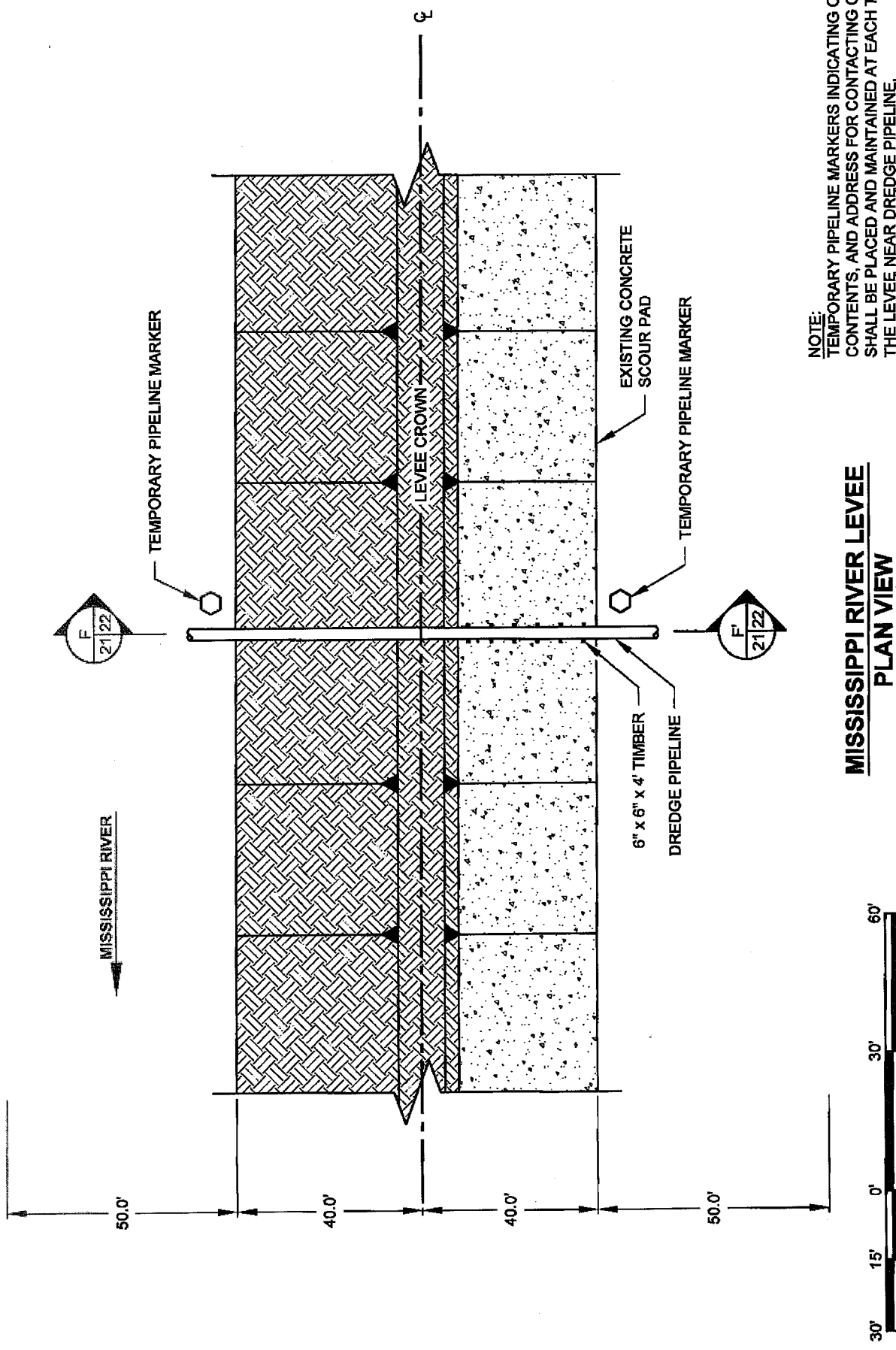
LEGEND	
---	EXISTING GROUND
▨	BRACED EXCAVATION
▩	TEMPORARY SPOIL

- NOTES:**
- TEMPORARY SPOIL SHALL BE PLACED ADJACENT THE EXCAVATION PIT ON BOTH SIDES.
  - THE TEMPORARY SPOIL SHALL BE BACKFILLED INTO EXCAVATION PIT AFTER COMPLETION OF CONSTRUCTION.



APPLICATION BY: NATIONAL MARINE FISHERIES SERVICE LSU, SOUTH STADIUM DRIVE BATON ROUGE, LA 70803	<b>COASTAL PROTECTION AND RESTORATION AUTHORITY</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BAYOU DUPONT MARSH AND RIDGE CREATION	RAILROAD CROSSING DETAIL
DESIGNED BY: RUSS JOFFRION, P.E.		STATE PROJECT NUMBER: BA-48	DATE: JULY 2011 (MOD. 11/15/12)
DRAWN BY: KRISTI CANTU		FEDERAL PROJECT NUMBER: BA-48	SHEET 20 OF 35

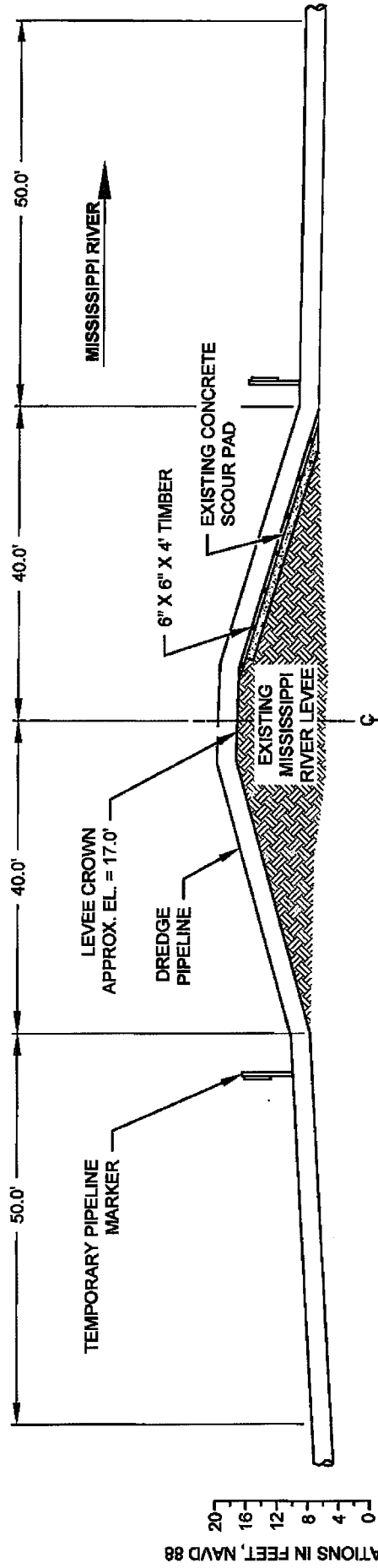




**NOTE:**  
 TEMPORARY PIPELINE MARKERS INDICATING OWNER,  
 CONTENTS, AND ADDRESS FOR CONTACTING OWNER  
 SHALL BE PLACED AND MAINTAINED AT EACH TOE OF  
 THE LEVEE NEAR DREDGE PIPELINE.

# **MISSISSIPPI RIVER LEVEE** **PLAN VIEW**

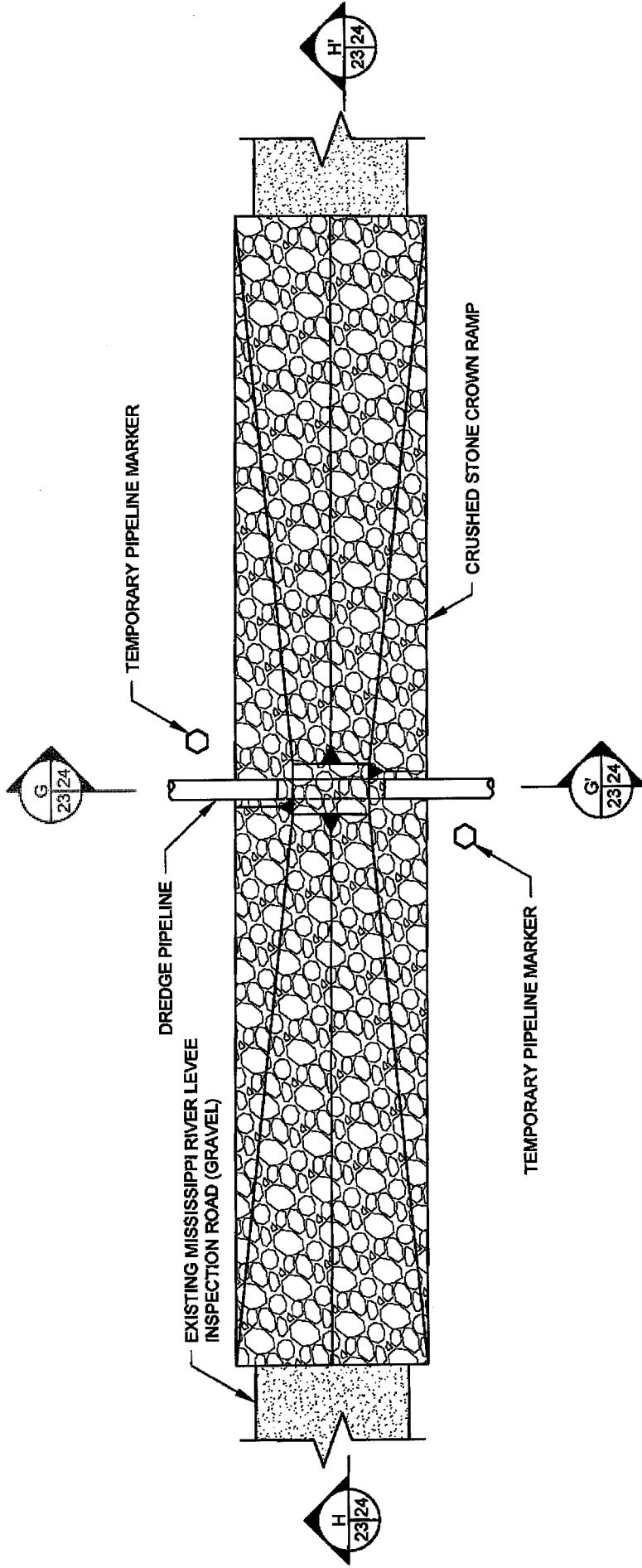
APPLICATION BY: NATIONAL MARINE FISHERIES SERVICES LSU, SOUTH STADIUM DRIVE BATON ROUGE, LA 70803	<b>COASTAL PROTECTION AND RESTORATION AUTHORITY</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BAYOU DU PONT MARSH AND RIDGE CREATION	MISSISSIPPI RIVER LEVEE CROSSING DETAIL DATE: JULY 2011 (MOD DECEMBER 2011) SHEET 21 OF 35
DESIGNED BY: KRISTI CANTU	DESIGNED BY: RUSS JOFFRONI, P.E. APPROVED BY: MAURY CHATELIER, P.E.	STATE PROJECT NUMBER: BA-48 FEDERAL PROJECT NUMBER: BA-48	



# **SECTION F-F'**

- NOTES:**
1. TEMPORARY PIPELINE MARKERS INDICATING OWNER, CONTENTS, AND ADDRESS FOR CONTACTING OWNER SHALL BE PLACED AND MAINTAINED AT EACH TOE OF THE LEVEE NEAR DREDGE PIPELINE.
  2. NO EXCAVATION NEAR MISSISSIPPI RIVER AND TRIBUTARY LEVEE.

<p>APPLICATION BY: NATIONAL MARINE FISHERIES SERVICES LSU, SOUTH STADIUM DRIVE BATON ROUGE, LA 70803</p>	<p><b>COASTAL PROTECTION AND RESTORATION AUTHORITY</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>	<p>BAYOU DUPONT MARSH AND RIDGE CREATION</p>	<p>MISSISSIPPI RIVER LEVEE CROSSING DETAIL</p>
<p>DRAWN BY: KRISTI CANTU</p>	<p>DESIGNED BY: RUSS JOFFRION, P.E.</p>	<p>APPROVED BY: MAURY CHATELLIER, P.E.</p>	<p>DATE: JULY 2011 (MOD DECEMBER 2011) SHEET 22 OF 35</p>



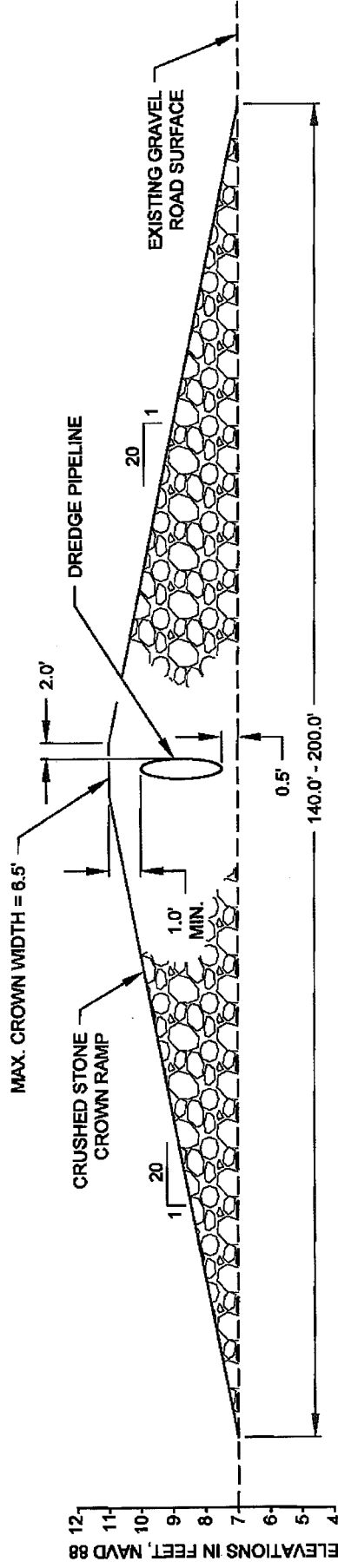
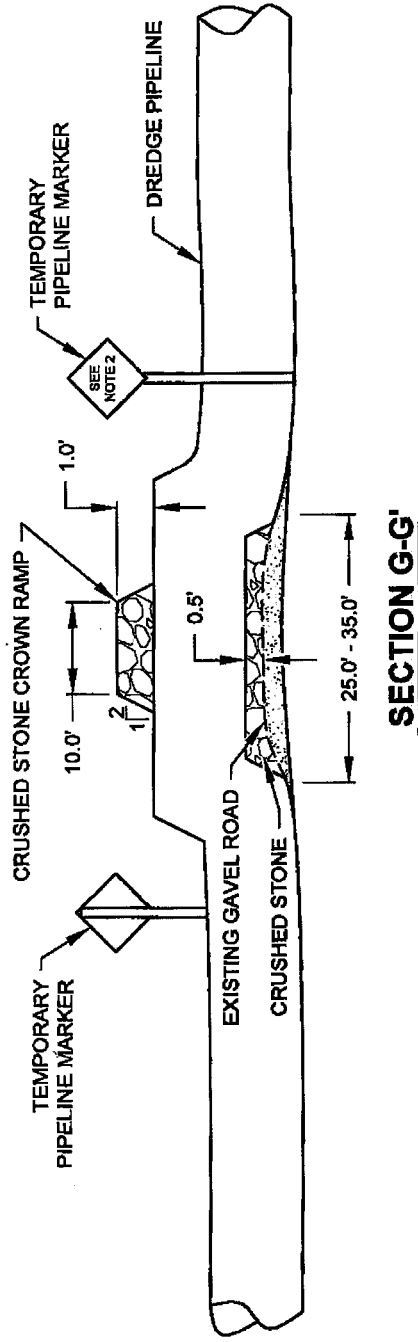
- NOTES:**
1. THE CROWN RAMP OVER THE PIPELINE CROSSINGS SHALL CONSIST OF CRUSHED STONE FOR FULL WIDTH (10' MINIMUM) AND LENGTH OF RAMP. THE CRUSHED STONE MATERIAL SHALL CONFORM TO DOTD 2006 SPECIFICATION 1003.04 (a).
  2. TEMPORARY PIPELINE MARKERS INDICATING OWNER, CONTENTS, AND ADDRESS FOR CONTACTING OWNER SHALL BE PLACED AND MAINTAINED AT EACH TOE OF THE LEVEE NEAR DREDGE PIPELINE.

**MISSISSIPPI RIVER LEVEE  
INSPECTION ROAD  
PLAN VIEW**

<p>APPLICATION BY: NATIONAL MARINE FISHERIES SERVICES LSU, SOUTH STADIUM DRIVE BATON ROUGE, LA 70803</p>	<p><b>COASTAL PROTECTION AND RESTORATION AUTHORITY</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>	<p>BAYOU DUPONT MARSH AND RIDGE CREATION</p>	<p>LEVEE INSPECTION ROAD CROSSING DETAIL</p>
<p>DRAWN BY: KRISTI CANTU</p>	<p>DESIGNED BY: RUSS JOFFRION, P.E. APPROVED BY: MAURY CHATELIER, P.E.</p>	<p>STATE PROJECT NUMBER: BA-48 FEDERAL PROJECT NUMBER: BA-48</p>	<p>DATE: JULY 2011 SHEET 23 OF 35</p>



ELEVATIONS IN FEET, NAVD 88



NOTES:

1. MISSISSIPPI RIVER LEVEE INSPECTION ROAD IS AT THE LANDSIDE TOE OF THE MISSISSIPPI RIVER LEVEE.
2. TEMPORARY PIPELINE MARKERS INDICATING OWNER, CONTENTS, AND ADDRESS FOR CONTACTING OWNER SHALL BE PLACED AND MAINTAINED AT EACH TOE OF THE LEVEE NEAR DREDGE PIPELINE.

HORIZONTAL GRAPHIC SCALE



VERTICAL GRAPHIC SCALE

APPLICATION BY:

NATIONAL MARINE FISHERIES SERVICE  
LSU, SOUTH STADIUM DRIVE  
BATON ROUGE, LA 70803

COASTAL PROTECTION AND  
RESTORATION AUTHORITY  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DRAWN BY: KRISTI CANTU

DESIGNED BY: RUSS JOFFRON, P.E.

APPROVED BY: MAURY CHATELIER, P.E.

BAYOU DUPONT MARSH  
AND RIDGE CREATION

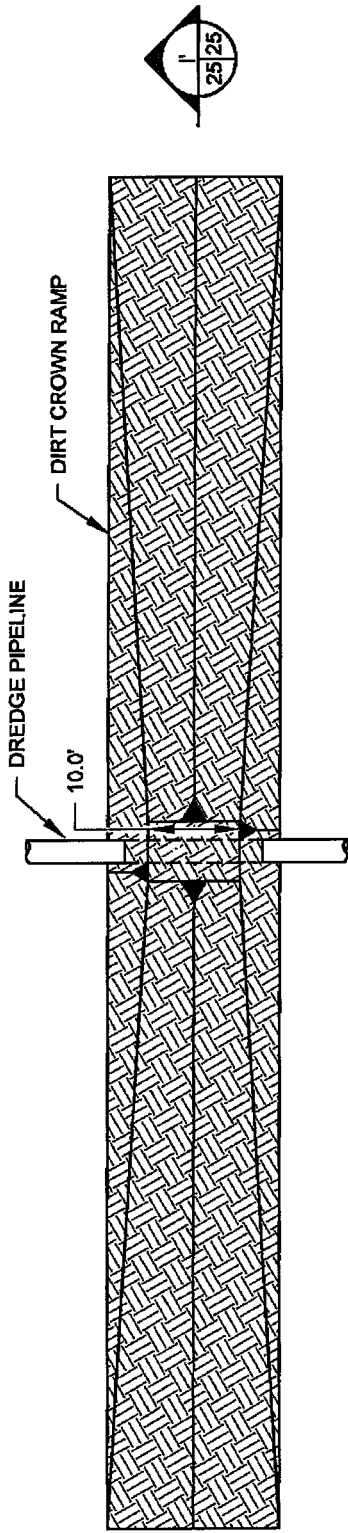
LEVEE INSPECTION ROAD  
CROSSING DETAILS

DATE: JULY 2011

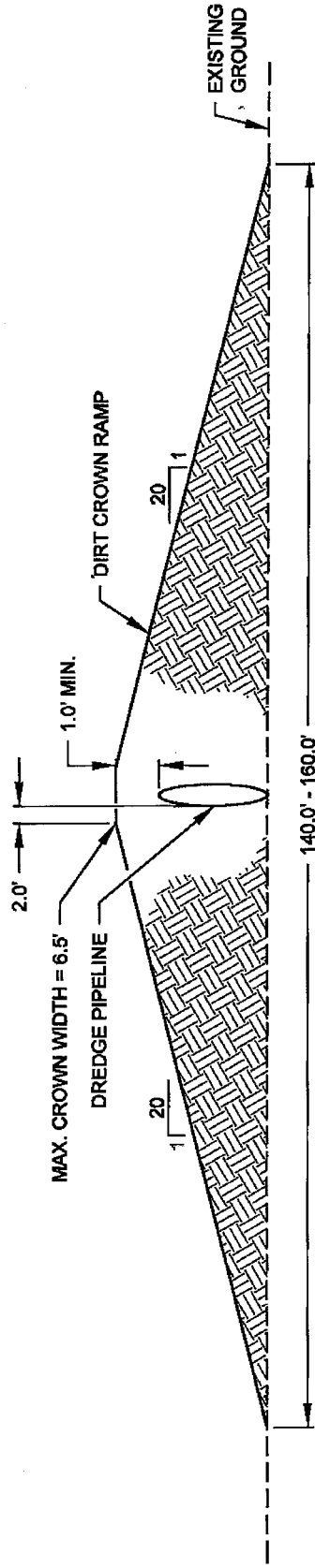
STATE PROJECT NUMBER: BA-48

SHEET 24 OF 35

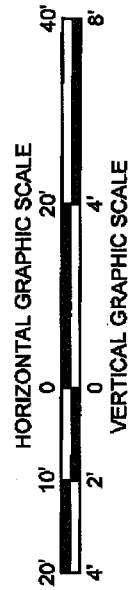
FEDERAL PROJECT NUMBER: BA-48



**CATTLE CROSSING PLAN VIEW**



**SECTION I-I'**



APPLICATION BY:  
NATIONAL MARINE FISHERIES SERVICE  
LSU, SOUTH STADIUM DRIVE  
BATON ROUGE, LA 70803

**COASTAL PROTECTION AND  
RESTORATION AUTHORITY**  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DRAWN BY: KRISTI CANTU

DESIGNED BY: RUSS JOFFRON, P.E. APPROVED BY: MAURY CHATELLIER, P.E.

BAYOU DUPONT MARSH  
AND RIDGE CREATION

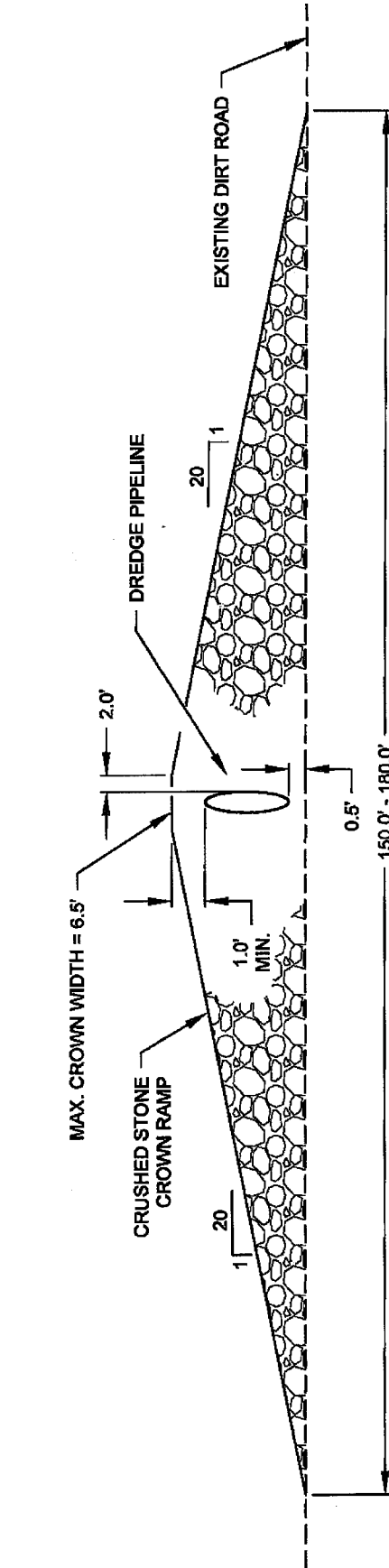
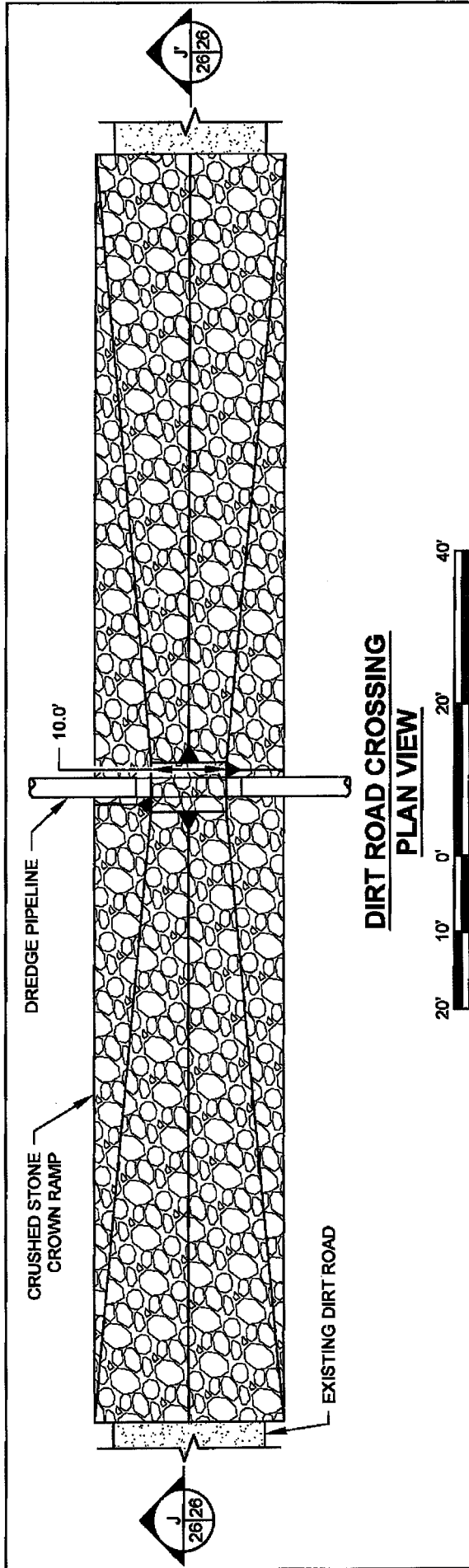
CATTLE CROSSING  
DETAILS

STATE PROJECT NUMBER: BA-48

DATE: JULY 2011

FEDERAL PROJECT NUMBER: BA-48

SHEET 25 OF 35



# SECTION J-J'

HORIZONTAL GRAPHIC SCALE

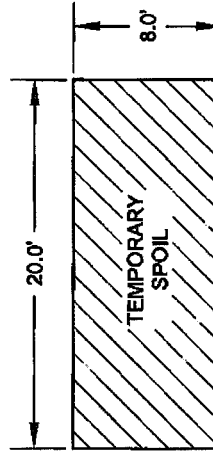
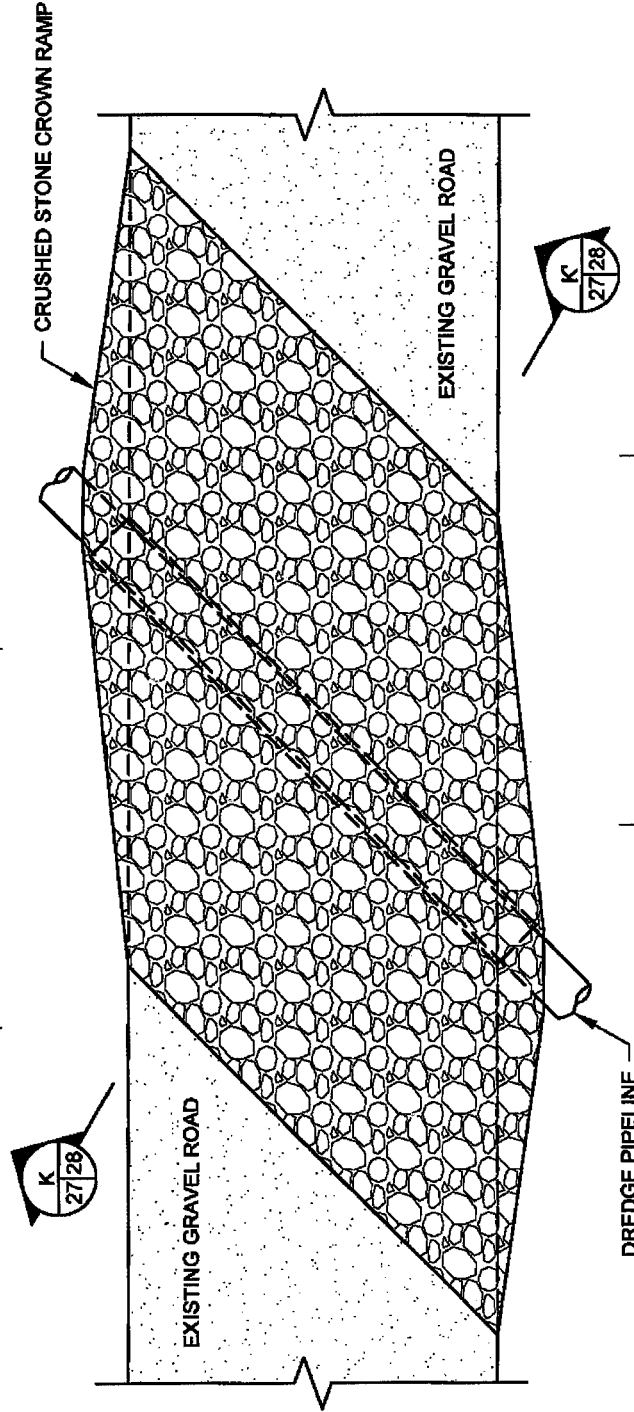
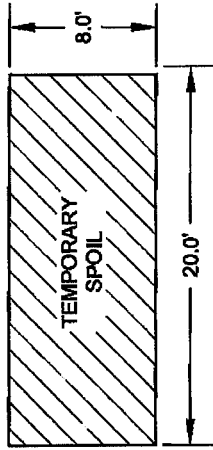


VERTICAL GRAPHIC SCALE

**NOTE:**  
THE CROWN RAMP OVER THE PIPELINE CROSSINGS SHALL CONSIST OF CRUSHED STONE FOR FULL WIDTH (10' MINIMUM) AND LENGTH OF RAMP. THE CRUSHED STONE MATERIAL SHALL CONFORM TO DOTD 2006 SPECIFICATION 1003.04 (a).

<p>APPLICATION BY: NATIONAL MARINE FISHERIES SERVICE LSJ, SOUTH STADIUM DRIVE BATON ROUGE, LA 70803</p>	<p><b>COASTAL PROTECTION AND RESTORATION AUTHORITY</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>	<p>BAYOU DUPONT MARSH AND RIDGE CREATION</p>	<p>DIRT ROAD CROSSING DETAILS</p>
<p>DRAWN BY: KRISTI CANTU</p>	<p>DESIGNED BY: RUSS JOFFRION, P.E.</p>	<p>STATE PROJECT NUMBER: BA-48</p>	<p>DATE: JULY 2011</p>
		<p>FEDERAL PROJECT NUMBER: BA-48</p>	<p>SHEET 26 OF 35</p>





# **GRAVEL ROAD CROSSING** **PLAN VIEW**



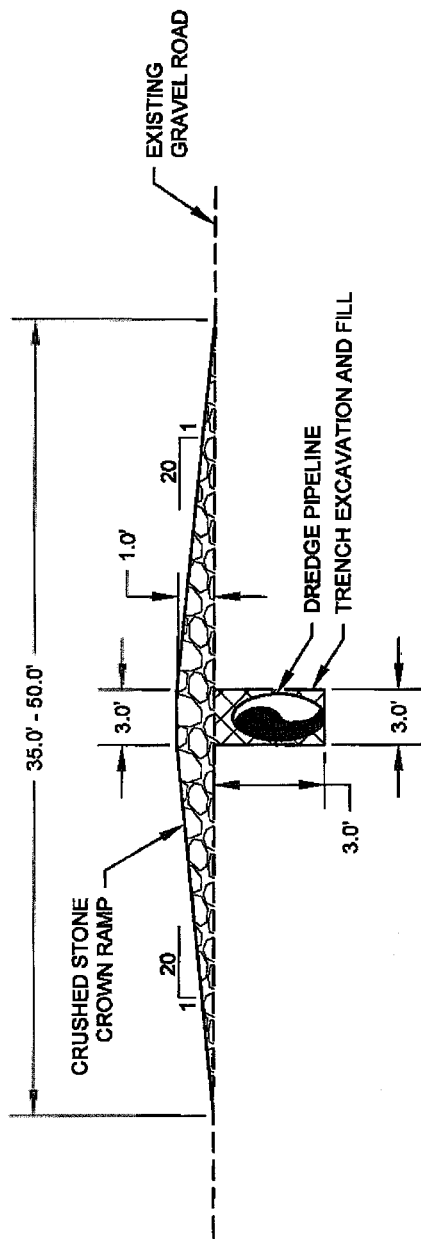
## **NOTES:**

1. THE CROWN RAMP OVER THE PIPELINE CROSSINGS SHALL CONSIST OF CRUSHED STONE FOR FULL WIDTH AND LENGTH OF RAMP. THE CRUSHED STONE MATERIAL SHALL CONFORM TO DOTD 2006 SPECIFICATION 1003.04 (a).
2. AFTER CONSTRUCTION THE DREDGE PIPELINE SHALL BE REMOVED AND THE TEMPORARY SPOIL SHALL BE BACKFILLED INTO THE TRENCH. THE ROAD SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITIONS.

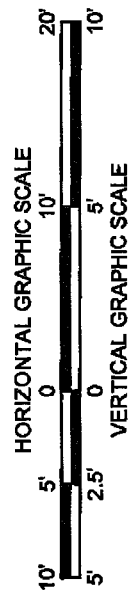
APPLICATION BY: NATIONAL MARINE FISHERIES SERVICE LSU, SOUTH STADIUM DRIVE BATON ROUGE, LA 70803	<b>COASTAL PROTECTION AND RESTORATION AUTHORITY</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BAYOU DUPONT MARSH AND RIDGE CREATION  STATE PROJECT NUMBER: BA-48 FEDERAL PROJECT NUMBER: BA-48	GRAVEL ROAD CROSSING DETAIL  DATE: JULY 2011 SHEET 27 OF 35
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DRAWN BY: KRISTI CANTU

DESIGNED BY: RUSS JOFFRION, P.E. APPROVED BY: MAURY CHATELLIER, P.E.

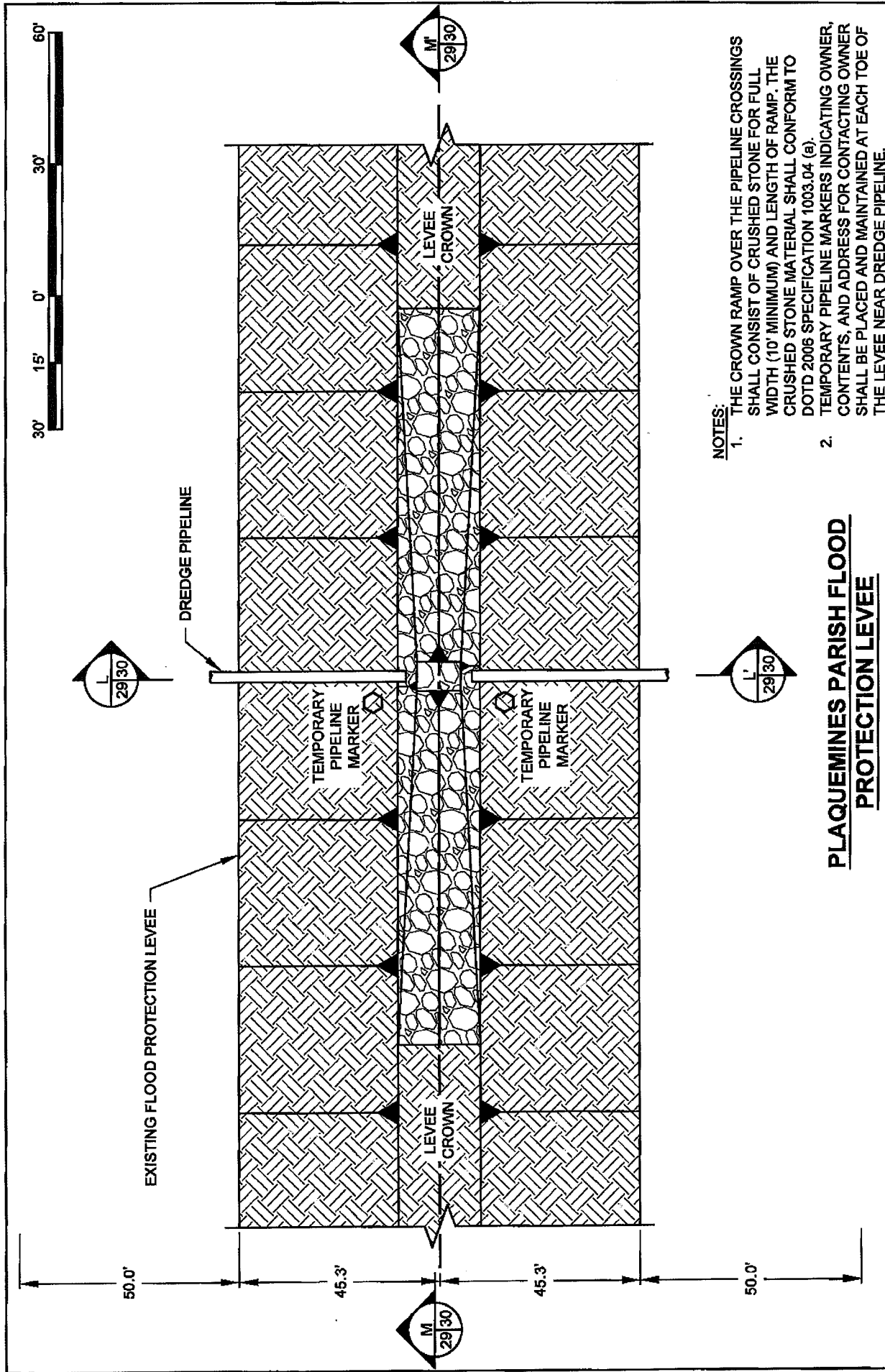


### SECTION K-K'



**NOTE:**  
THE CROWN RAMP OVER THE PIPELINE CROSSINGS SHALL CONSIST OF CRUSHED STONE FOR FULL WIDTH AND LENGTH OF RAMP. THE CRUSHED STONE MATERIAL SHALL CONFORM TO DOTD 2006 SPECIFICATION 1003.04 (a).

APPLICATION BY: NATIONAL MARINE FISHERIES SERVICE LSU, SOUTH STADIUM DRIVE BATON ROUGE, LA 70803	<b>COASTAL PROTECTION AND RESTORATION AUTHORITY</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BAYOU DUPONT MARSH AND RIDGE CREATION  STATE PROJECT NUMBER: BA-48 FEDERAL PROJECT NUMBER: BA-48	GRAVEL ROAD CROSSING DETAIL  DATE: JULY 2011 SHEET 28 OF 35
DRAWN BY: KRISTI CANTU	DESIGNED BY: RUSS JOFFRION, P.E.		

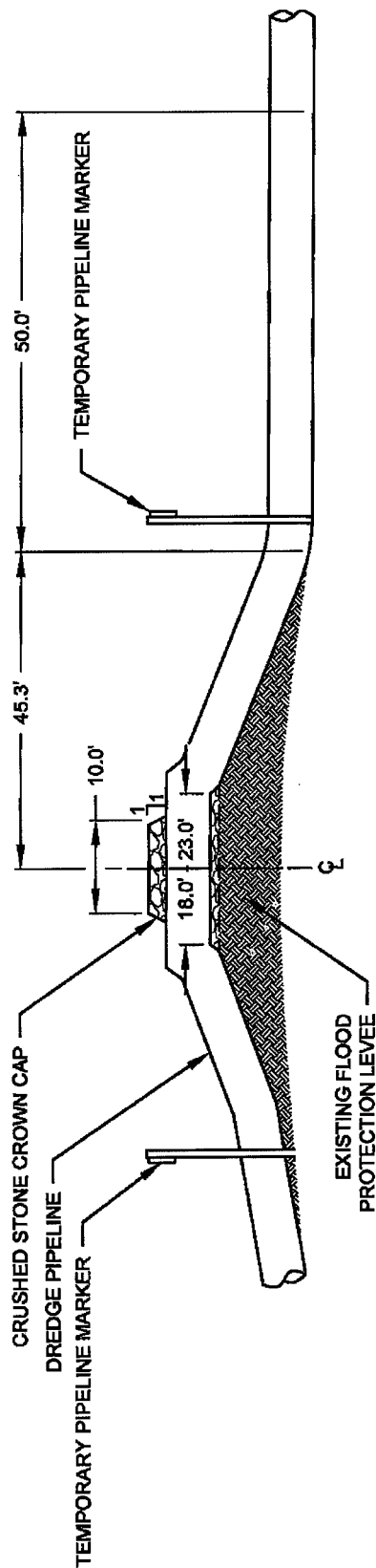


**NOTES:**

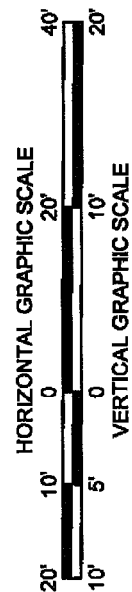
1. THE CROWN RAMP OVER THE PIPELINE CROSSINGS SHALL CONSIST OF CRUSHED STONE FOR FULL WIDTH (10' MINIMUM) AND LENGTH OF RAMP. THE CRUSHED STONE MATERIAL SHALL CONFORM TO DOTD 2006 SPECIFICATION 1003.04 (a).
2. TEMPORARY PIPELINE MARKERS INDICATING OWNER, CONTENTS, AND ADDRESS FOR CONTACTING OWNER SHALL BE PLACED AND MAINTAINED AT EACH TOE OF THE LEVEE NEAR DREDGE PIPELINE.

**PLAQUEMINES PARISH FLOOD  
PROTECTION LEVEE**

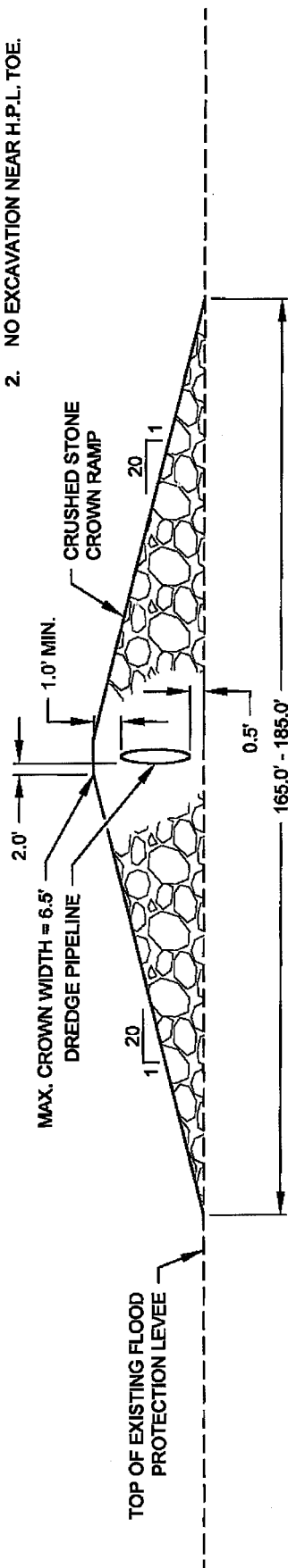
<p>APPLICATION BY: NATIONAL MARINE FISHERIES SERVICE LSU SOUTH STADIUM DRIVE BATON ROUGE, LA 70803</p>	<p>COASTAL PROTECTION AND RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>	<p>BAYOU DUPONT MARSH AND RIDGE CREATION</p>	<p>FLOOD PROTECTION LEVEE CROSSING DETAILS</p>
<p>DRAWN BY: KRISTI CANTU</p>	<p>DESIGNED BY: RUSS JOFFRION, P.E.</p>	<p>APPROVED BY: MAURY CHATELLIER, P.E.</p>	<p>DATE: JULY 2011 (MOD DECEMBER 2011) SHEET 29 OF 35</p>



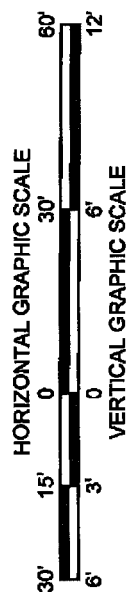
**SECTION L-L'**



- NOTES:**
1. TEMPORARY PIPELINE MARKERS INDICATING OWNER, CONTENTS, AND ADDRESS FOR CONTACTING OWNER SHALL BE PLACED AND MAINTAINED AT EACH TOE OF THE LEVEE NEAR THE DREDGE PIPELINE.
  2. NO EXCAVATION NEAR H.P.L. TOE.

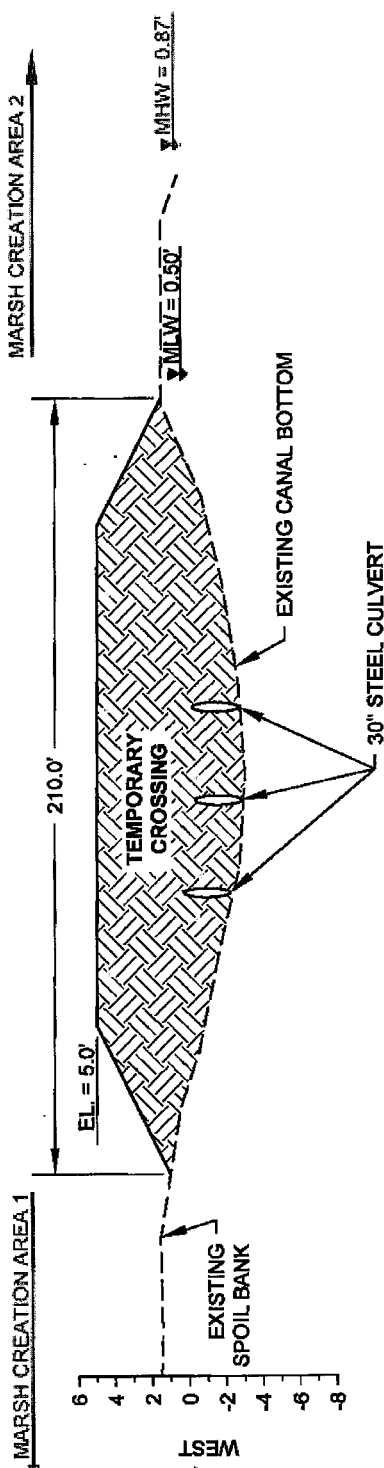


**SECTION M-M'**

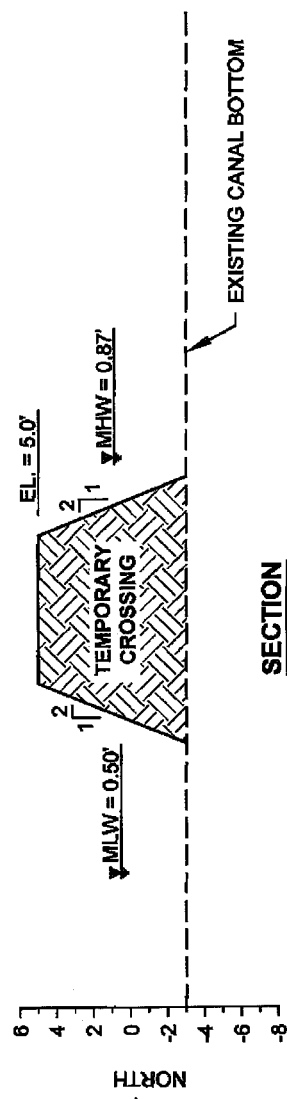


<p>APPLICATION BY: NATIONAL MARINE FISHERIES SERVICE LSU, SOUTH STADIUM DRIVE BATON ROUGE, LA 70803</p>	<p><b>COASTAL PROTECTION AND RESTORATION AUTHORITY</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>	<p>BAYOU DUPONT MARSH AND RIDGE CREATION</p>	<p>FLOOD PROTECTION LEVEE CROSSING DETAILS</p>
<p>DRAWN BY: KRISTI CANTU</p>	<p>DESIGNED BY: RUSS JOFFRON, P.E. APPROVED BY: MAURY CHATELLIER, P.E.</p>	<p>STATE PROJECT NUMBER: BA-48</p>	<p>DATE: JULY 2011 (MOD DECEMBER 2011)</p>
		<p>FEDERAL PROJECT NUMBER: BA-48</p>	<p>SHEET 30 OF 35</p>

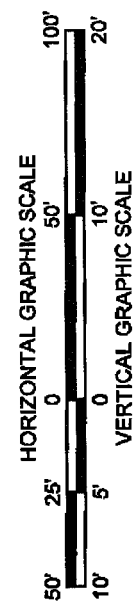




**PROFILE  
TEMPORARY CROSSING**

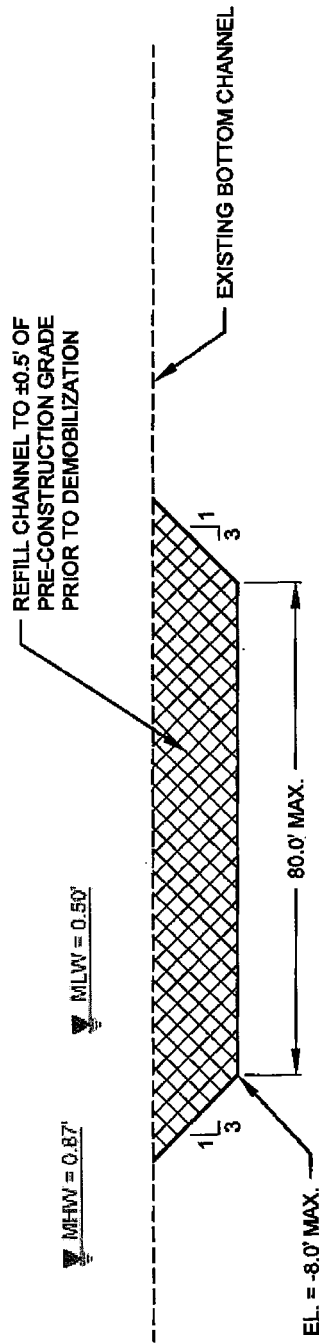


**SECTION  
TEMPORARY CROSSING**

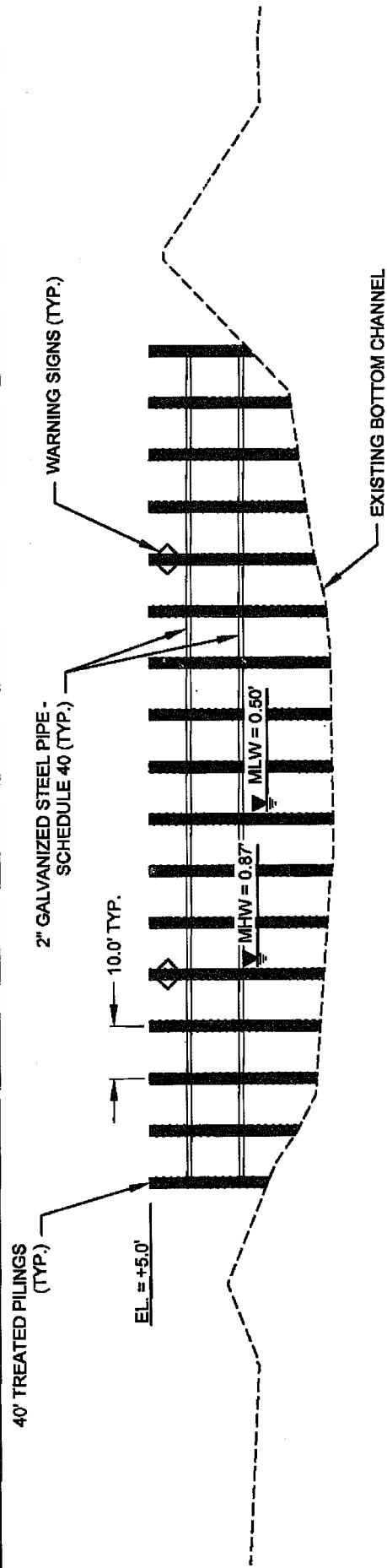


- NOTES:**
1. THE TEMPORARY CROSSING SHALL BE CONSTRUCTED USING MATERIAL HYDRAULICALLY DREDGED FROM THE BORROW AREA IN THE MISSISSIPPI RIVER.
  2. TEMPORARY CROSSINGS SHALL BE REMOVED PRIOR TO DEMOBILIZATION.

APPLICATION BY: NATIONAL MARINE FISHERIES SERVICE LSU, SOUTH STADIUM DRIVE BATON ROUGE, LA 70803	<b>COASTAL PROTECTION AND RESTORATION AUTHORITY</b> 460 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BAYOU DUPONT MARSH AND RIDGE CREATION	TEMPORARY CANAL CROSSING DETAILS
DRAWN BY: KRISTI CANTU	DESIGNED BY: RUSS JOFFRION, P.E. / APPROVED BY: MAURY CHATELLIER, P.E.	STATE PROJECT NUMBER: BA-48 FEDERAL PROJECT NUMBER: BA-48	DATE: JULY 2011 SHEET 31 OF 35



**TYPICAL CHANNEL SILL DETAIL**

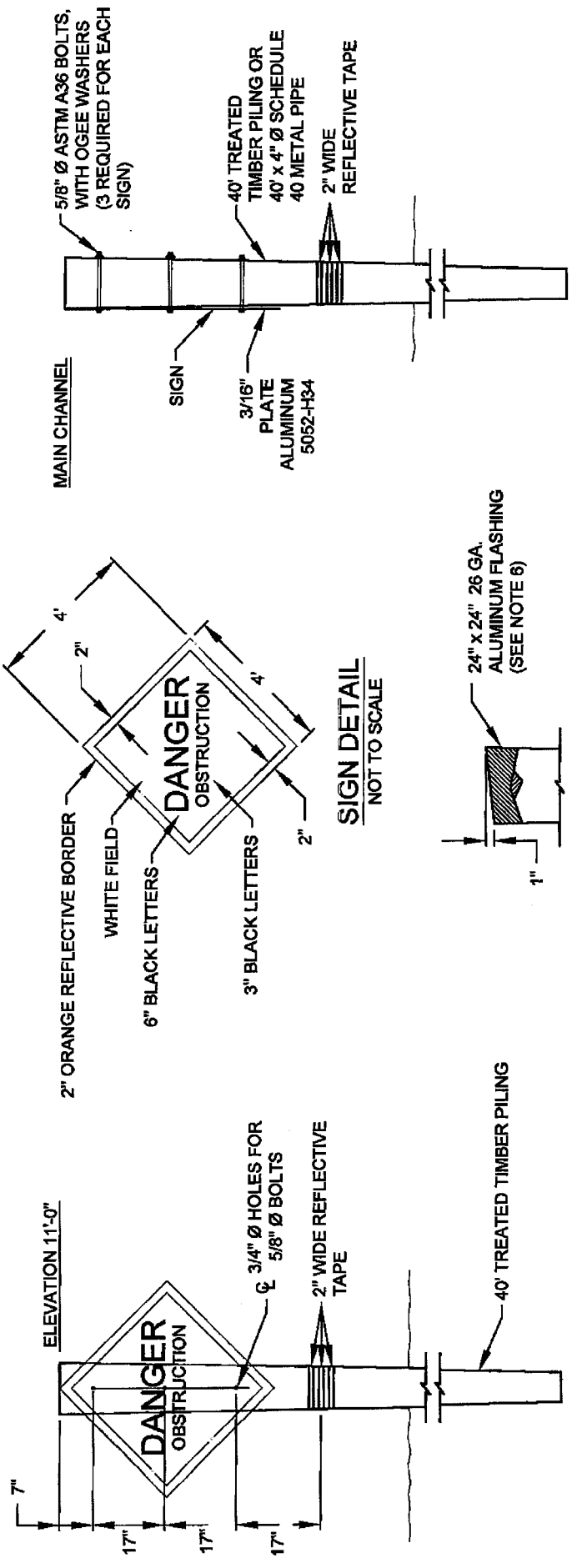


**TYPICAL ACCESS RESTRICTION DETAIL**

**NOTE:**  
REMOVE AND REPLACE  
EXISTING TIMBER PILES USED  
FOR ACCESS RESTRICTIONS.



APPLICATION BY: NATIONAL MARINE FISHERIES SERVICE LSU SOUTH STADIUM DRIVE BATON ROUGE, LA 70803	<b>COASTAL PROTECTION AND RESTORATION AUTHORITY</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BAYOU DUPONT MARSH AND RIDGE CREATION	CANAL SILL AND ACCESS RESTRICTION DETAILS
DESIGNED BY: KRISTI CANTU	DESIGNED BY: RUSS JOFFRION, P.E. APPROVED BY: MAURY CHATELLIER, P.E.	STATE PROJECT NUMBER: BA-48	DATE: JULY 2011
DRAWN BY: KRISTI CANTU	FEDERAL PROJECT NUMBER: BA-48	SHEET 32 OF 36	SHEET 32 OF 36



**WARNING SIGN ELEVATION**  
NOT TO SCALE

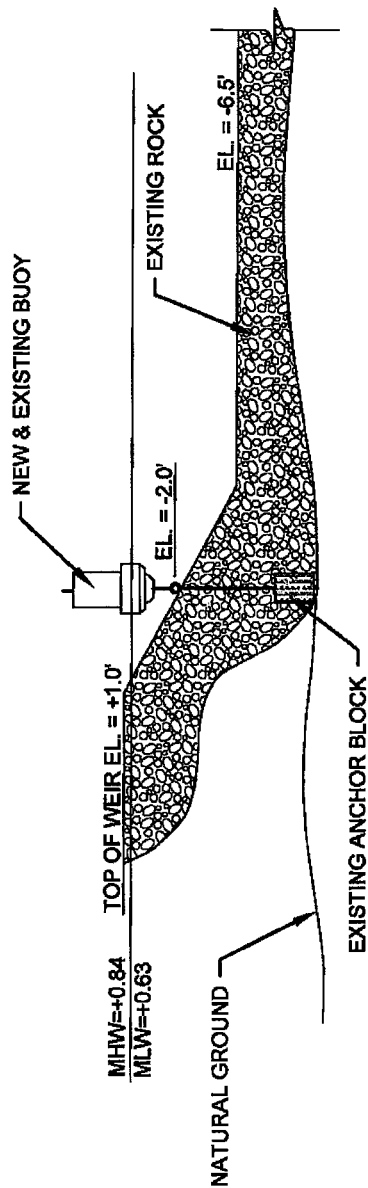
**TYPICAL TIMBER PILE CAP**  
NOT TO SCALE

**WARNING SIGN SIDE DETAIL**  
NOT TO SCALE

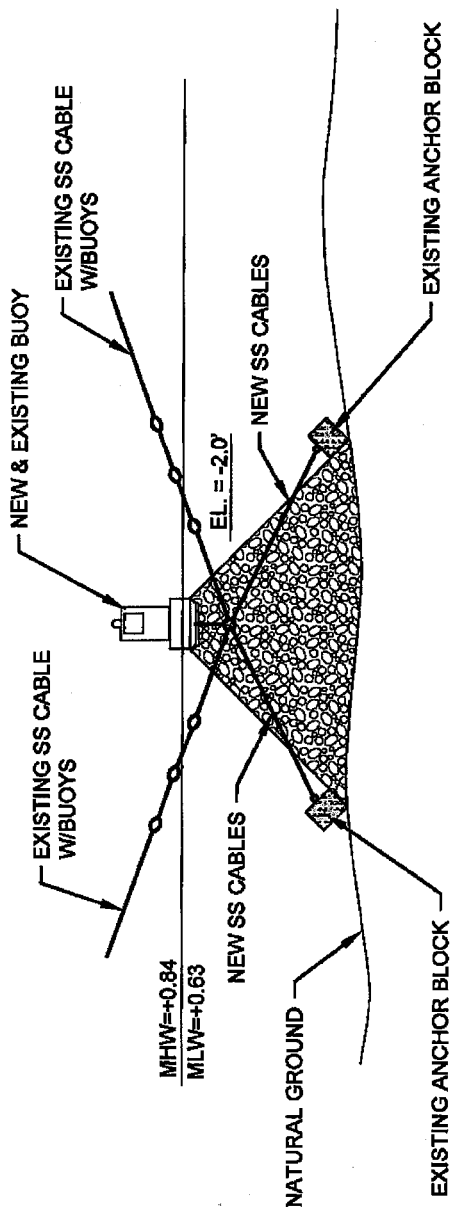
**WARNING SIGN NOTES:**

1. FORTY-TWO (42) PERMANENT WARNING SIGNS, INCLUDING TIMBER PILES, SHALL BE INSTALLED AT LOCATIONS SHOWN ON SHEETS 3 - 8. 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](http://www.access.gpo.gov/nara/cfr/waisidx_02/33cfr330_02.html)
2. NEOPRENE WASHERS SHALL BE PLACED BETWEEN THE SIGN AND THE PILING AT ALL POINTS OF CONTACT.
3. HARDWARE FOR TIMBER CONNECTIONS SHALL 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.
4. 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 AWWA P2 TO A MINIMUM RETENTION OF 20 PCF AND CAPPED ACCORDING TO LA DOTD SPECIFICATION 812.06.
5. TIMBER PILING SHALL BE 40' IN LENGTH WITH A NOMINAL 12" DIAMETER BUTT AND 7" MINIMUM DIAMETER AT THE TIP.
6. 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.

APPLICATION BY: NATIONAL MARINE FISHERIES SERVICE LSU, SOUTH STADIUM DRIVE BATON ROUGE, LA 70803	<b>COASTAL PROTECTION AND RESTORATION AUTHORITY</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BAYOU DUPONT MARSH AND RIDGE CREATION  STATE PROJECT NUMBER: BA-48 FEDERAL PROJECT NUMBER: BA-48	SIGN DETAILS  DATE: JULY 2011 SHEET 33 OF 35
DRAWN BY: KRISTI CANTU	DESIGNED BY: RUSS JOFFRION, P.E. APPROVED BY: MAURY CHATELIER, P.E.		



**ELEVATION - BUOY DETAILS**  
**TYPE A**

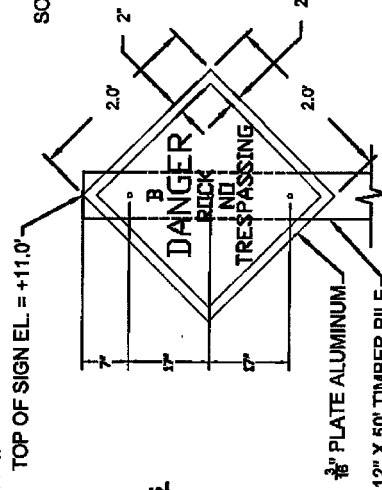
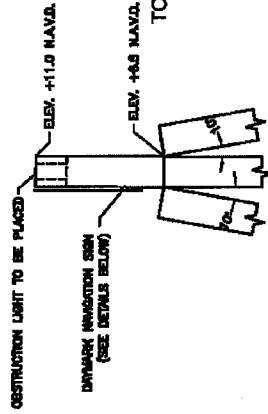
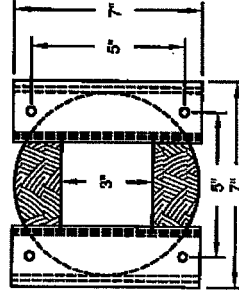
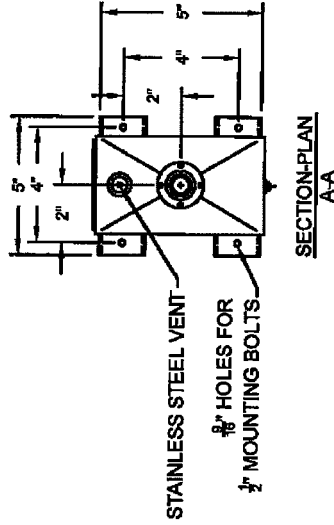
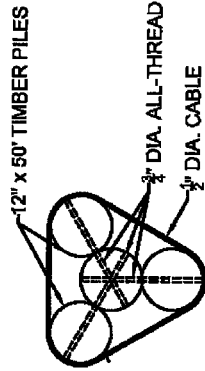
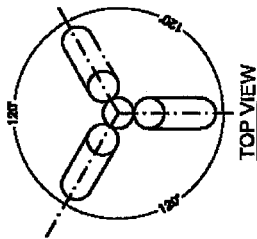


**SECTION - BUOY DETAILS**  
**TYPE A**

APPLICATION BY: NATIONAL MARINE FISHERIES SERVICE LSU, SOUTH STADIUM DRIVE BATON ROUGE, LA 70803	<b>COASTAL PROTECTION AND RESTORATION AUTHORITY</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BAYOU DUPONT MARSH AND RIDGE CREATION	BUOY DETAILS
DRAWN BY: KRISTI CANTU	DESIGNED BY: RUSS JOFFRION, P.E. APPROVED BY: MAURY CHATELLIER, P.E.	STATE PROJECT NUMBER: BA-48	DATE: JULY 2011
		FEDERAL PROJECT NUMBER: BA-48	SHEET 34 OF 35

**NOTES:**

1. ALL 3/4" DIA. ALL THREAD TIE RODS SHALL BE SECURED BY NOTCHED IN PLACE OGEE WASHERS AND TACK WELDED NUTS.
2. 6 WRAPS OF 1/2" DIA. CABLE MEETING ASTM A-416 AND ASTM A-882/A-882M-92 BETWEEN THE 3-3/4" DIA. ALL-THREAD ASTM A-815 GR60 GALVANIZED AND EPOXY COATED TIE RODS.
3. THE 1/2" DIA. CABLE SHALL BE SECURED USING 3 STAINLESS STEEL CLAMPS.
4. THE 3/4" DIA. ALL-THREAD TIE RODS SHALL BE A MINIMUM OF 6" BELOW TOP OF BATTER PILE AND AND 3" VERTICAL CLEARANCE FROM ADJACENT TIE ROD.
5. TIMBER PILING SHALL BE 50 FEET IN LENGTH WITH A NOMINAL 12-INCH DIAMETER BUTT AND 7-INCH MINIMUM DIAMETER AT THE TIP.



ELEVATION VIEW APPLIES TO SIGNS C AND D

DAYMARK NAVIGATION AID  
DANGER SIGN APPLIES TO  
SIGNS C AND D

**NOTES:**

1. SEE SHEETS 4-7 FOR SIGN PLACEMENT LOCATIONS.
2. ALL DAYMARK NAVIGATION AIDES SHALL ABIDE BY U.S.C.G. REGULATIONS.
3. SIGNS SHALL BE SECURED TO TIMBER PILE WITH 3-5/8" x 8" STAINLESS STEEL LAG SCREW WITH 1 1/4" O.D. STAINLESS STEEL WASHER.
4. SIGNS A, B, AND D SHALL BE INSTALLED ON SINGLE 50 PILES.

ELEVATION  
MOUNTING DETAILS-2.5 SEC.  
DAYLIGHT ALUM.

ELEVATION  
2.5 SEC. DAYLIGHT  
ALUM.

APPLICATION BY:

NATIONAL MARINE FISHERIES SERVICE  
LSU SOUTH STADIUM DRIVE  
BATON ROUGE, LA 70803

**COASTAL PROTECTION AND  
RESTORATION AUTHORITY**  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

BAYOU DUPONT MARSH  
AND RIDGE CREATION

NAVIGATIONAL AID  
DETAILS

DRAWN BY: KRISTI CANTU

DESIGNED BY: RUSS JOFFRION, P.E.

FEDERAL PROJECT NUMBER: BA-48

STATE PROJECT NUMBER: BA-48

DATE: JULY 2011

SHEET 36 OF 35