



DEPARTMENT OF THE ARMY
NEW ORLEANS DISTRICT, CORPS OF ENGINEERS
P.O. BOX 60267
NEW ORLEANS, LOUISIANA 70160-0267

REPLY TO
ATTENTION OF

Operations Division
Eastern Evaluation Section

JUL 31 2014

SUBJECT: MVN-2009-1353-EPP

Coastal Protection & Restoration Authority of Louisiana &
Louisiana Department of Transportation & Development
c/o Moffat & Nichol
301 Main Street, Suite 800
Baton Rouge, Louisiana 70825

Gentlemen:

Revised drawings, enclosed in forty one sheets, furnished with your Department of the Army permit application dated June 5, 2014, to dredge to construct a sediment pipeline corridor and marsh restoration/nourishment area which will include a 200' x 200' temporary construction staging area within the permitted corridor, located within the Mississippi River, between 67 to 60 miles above Head of Passes, crossing and south of Highway 23, near Naomi, in Plaquemines and Jefferson Parishes, Louisiana, are approved and will be included in your plans for the work authorized by the Secretary of the Army in a permit dated February 19, 2013, from the District Engineer at New Orleans, Louisiana. These drawings shall supersede those authorized on February 19, 2013.

The time for completion of this work is extended to July 31, 2019.

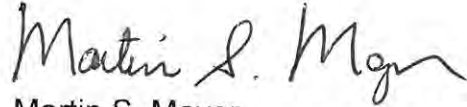
The conditions to which the work is made subject, excepting the time limit for construction remain in full force and effect.

The approval is subject to the following terms and conditions.

1. If the proposed project requires any additional work not expressly permitted herein, the permittee must apply for an amendment to this authorization.

A copy of the first page of this permit approval letter must be conspicuously displayed at the project site. Also, you must keep a copy of this signed letter, with attached drawings, at the project site until the work is completed.

BY AUTHORITY OF THE SECRETARY OF THE ARMY:

A handwritten signature in black ink, appearing to read "Martin S. Mayer". The signature is written in a cursive style with a large initial "M".

Martin S. Mayer
Chief, Regulatory Branch
for

Richard L. Hansen
Colonel, US Army
District Commander

Enclosure

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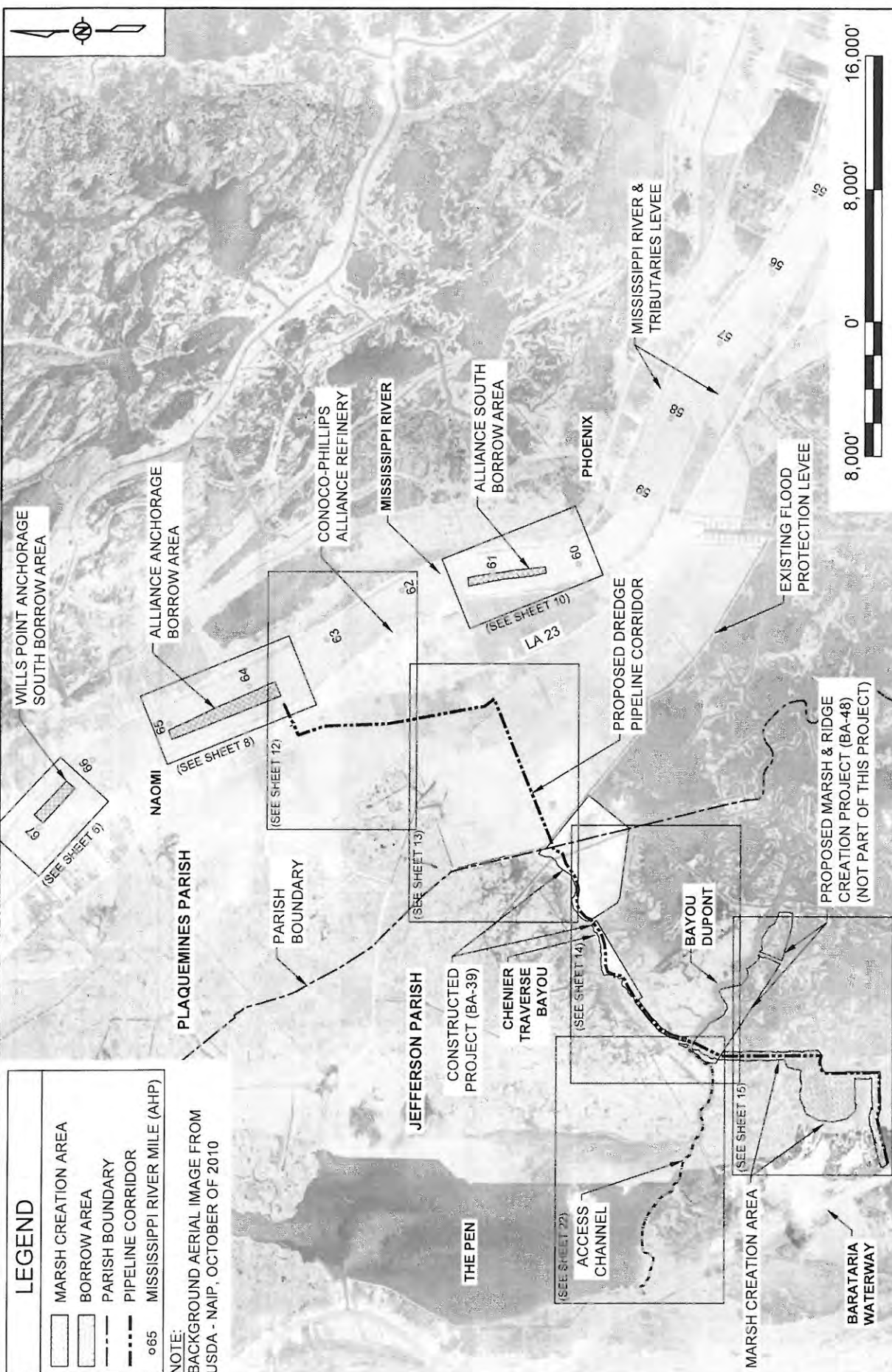
STATE OF LOUISIANA
COASTAL PROTECTION AND RESTORATION AUTHORITY

MISSISSIPPI RIVER
LONG DISTANCE SEDIMENT PIPELINE
STATE PROJECT No. BA-43 EB
JEFFERSON & PLUMIERES PARISHES, LOUISIANA



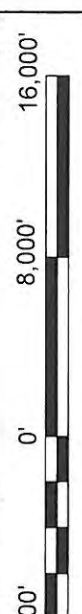
**THIS DRAWING SET IS FOR PERMITTING PURPOSES
ONLY AND NOT TO BE USED FOR CONSTRUCTION**

BY	DESCRIPTION	DATE	MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE	TITLE SHEET
SA	REVISION 3	03/09/12	STATE PROJECT NUMBER BA-43 (EB)	DATE: MARCH 9, 2012
SA	CDM COMMENT RESPONSE	11/19/11		
SA	REVISION 1	10/21/11	FEDERAL PROJECT NUMBER N/A	SHEET 1 OF 41
DRAWN BY: YC			APPROVED BY: MAURY CHATELIER, P.E.	
			COASTAL PROTECTION & RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	



LEGEND	
[Symbol]	MARSH CREATION AREA
[Symbol]	BORROW AREA
[Symbol]	PARISH BOUNDARY
[Symbol]	PIPELINE CORRIDOR
o65	MISSISSIPPI RIVER MILE (AHP)

NOTE:
BACKGROUND AERIAL IMAGE FROM
USDA - NAIP, OCTOBER OF 2010



BY	DESCRIPTION	DATE	DESIGNED BY: SA		DRAWN BY: YC	
SA	REVISION 3	03/09/12	MOFFATT & NIGROU		PROJECT LAYOUT	
SA	CDM COMMENT RESPONSE	11/18/11	ONE AMERICAN PLACE 301 MAIN STREET, SUITE 600 BATON ROUGE, LA 70825 225-927-7783		MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE	
SA	REVISION 1	10/21/11	450 LAUREL STREET BATON ROUGE, LOUISIANA 70801		STATE PROJECT NUMBER: BA-43 (EB)	
			APPROVED BY: MAURY CHATELIER, P.E.		FEDERAL PROJECT NUMBER: N/A	
					DATE: MARCH 9, 2012	
					SHEET 2 OF 41	


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

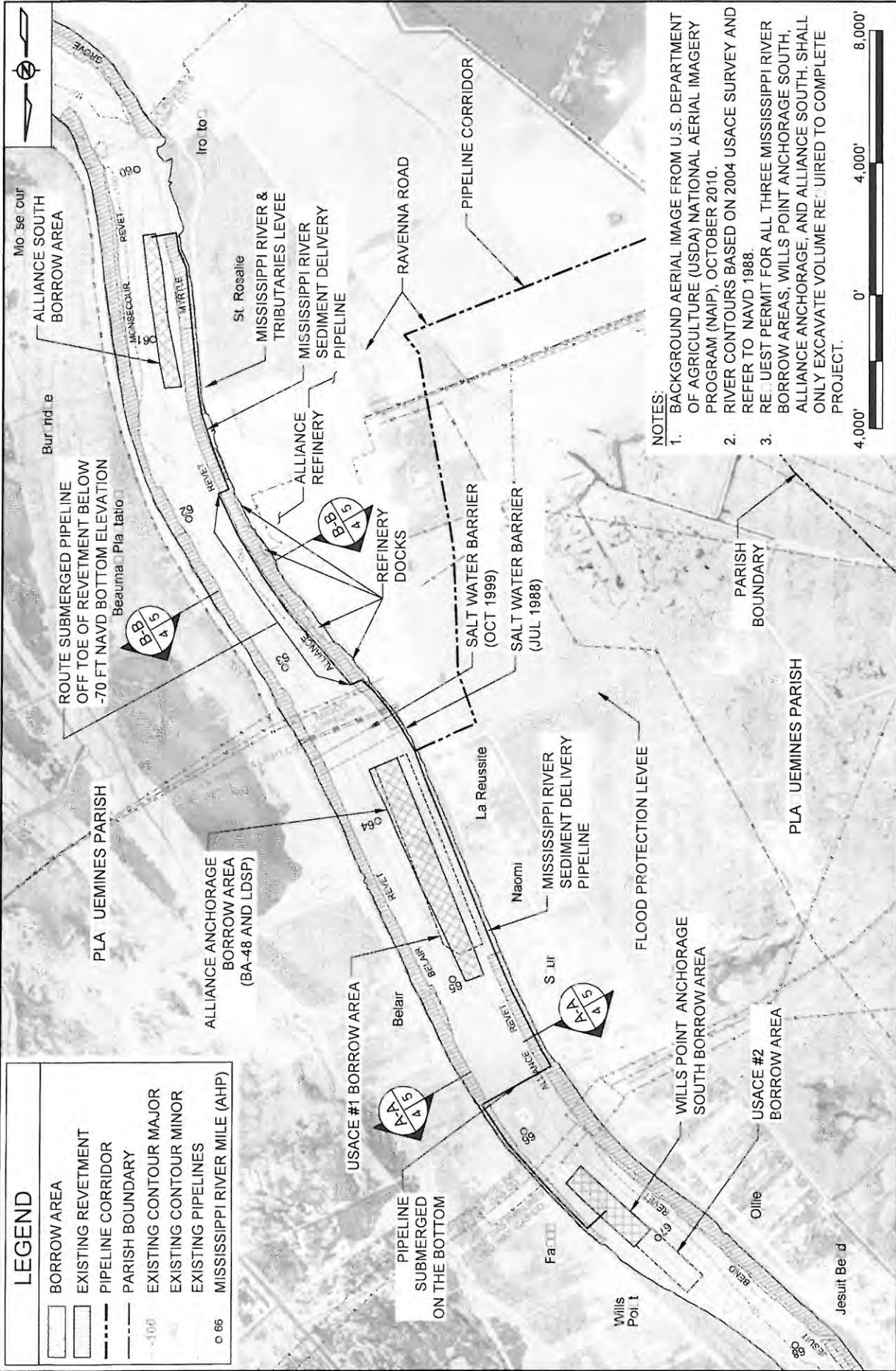
GENERAL NOTES:

1. BACKGROUND AERIAL IMAGES FROM U.S. DEPARTMENT OF AGRICULTURE (USDA) NATIONAL AERIAL IMAGERY PROGRAM (NAIP), OCTOBER OF 2010.
2. COORDINATES ARE NAD83, LOUISIANA STATE PLANE, SOUTHERN ONE, U.S. SURVEY FEET.
3. ALL ELEVATIONS ARE IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88), U.S. SURVEY FEET.
4. ALL RIVER DATUMS SHOWN BASED ON HISTORIC DATA FOR MISSISSIPPI RIVER AT ALLIANCE (01390) RIVER MILE 62.5. RECORDS AVAILABLE FROM APRIL 2, 1977 TO DATE.
5. THE CONTRACTOR SHALL NOT EXCAVATE WITHIN 500' OF ANY PIPELINE IN THE MISSISSIPPI RIVER OR WITHIN 50' OF ANY OTHER PIPELINE EXCEPT FOR NAOMI SIPHON PIPES.
6. NO EXCAVATION SHALL BE PERMITTED WITHIN 25 FEET OF THE NAOMI SIPHON PIPES. THE EDGE OF THE DREDGE SLURRY PIPELINE SHALL BE PLACED A MINIMUM OF 25 FEET FROM THE EDGE OF THE NAOMI SIPHON PIPES.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING PIPELINE AND UTILITY OPERATORS AT THE TIME OF CONSTRUCTION. ALL PIPELINES AND UNDERGROUND UTILITIES SHALL BE FIELD LOCATED AND MARKED.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING PIPELINE AND UTILITY OPERATORS 72 HOURS PRIOR TO ANY EXCAVATION.
9. NO CONSTRUCTION EQUIPMENT OR ACTIVITIES MAY OPERATE, TRANSIT, STAGE, OR STORE OUTSIDE OF THE CONSTRUCTION LIMITS.
10. THIS DRAWING SET IS FOR PERMITTING PURPOSES ONLY AND IS NOT TO BE USED FOR CONSTRUCTION.
11. ESTIMATED RAGE OF FULLY-LOADED DRAFTS FOR VESSELS TO BE USED DURING CONSTRUCTION:
 - a. 4,000 HP TUGS 15-20 FT
 - 2,000 HP TUGS 10-14 FT
 - WORK BOATS, TENDERS 6-8 FT
 - d. CREW BOATS 2-4 FT
 - e. BOOSTER PUMP BARGES, WORK BARGES, FUEL BARGES 4-6 FT
 - SMALL BARGE-MOUNTED CLAMSHELL OR EXCAVATOR 4-6 FT
 - LARGE HYDRAULIC DREDGE 10 FT

DREDGING NOTES:

1. THE CONTRACTOR WILL BE REQUIRED TO ANCHOR WITHIN THE DREDGE ANCHOR LIMITS SHOWN IN SHEETS 6, 8 AND 10.
2. DREDGE ANCHOR LIMITS SHALL BE MARKED WITH BUOYS AS SHOWN IN SHEETS 6, 8 AND 10.
3. DREDGING BEYOND THE BORROW AREA LIMITS SHOWN WILL BE NOT ALLOWED.
4. DREDGING WILL BE ALLOWED TO A MAXIMUM DEPTH OF -90 FT NAVD88.
5. 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.

BY	DESCRIPTION	DATE	 ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70825 225-827-7133	COASTAL PROTECTION & RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE	GENERAL NOTE RE: GING
SA	REVISION 3	03/09/12				
SA	CDM COMMENT RESPONSE	11/18/11				
SA	REVISION 1	10/21/11				
DRAWN BY: YC			DESIGNED BY: SA	APPROVED BY: MAURY CHATELIER, P.E.	STATE PROJECT NUMBER: BA-43 (EB)	DATE: MARCH 9, 2012
					FEDERAL PROJECT NUMBER: N/A	SHEET 3 OF 41



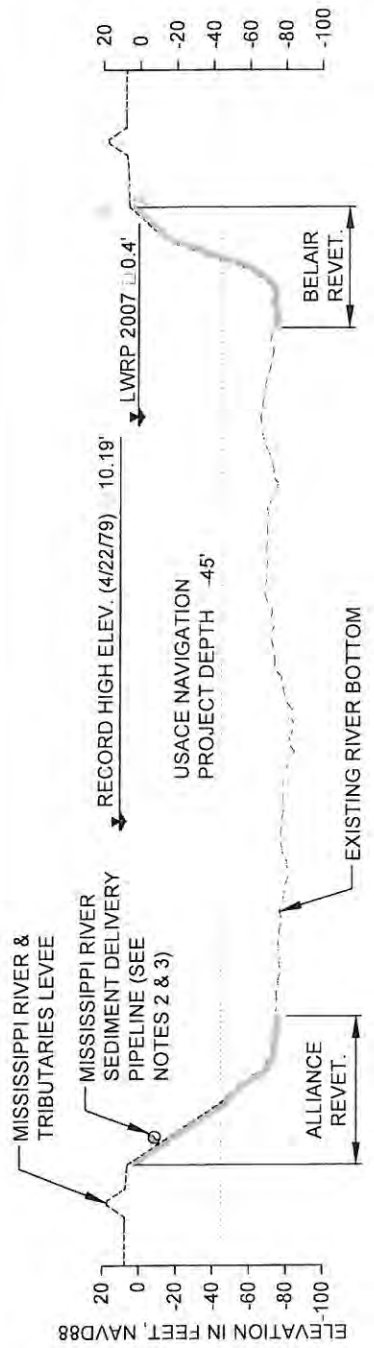
NOTES:

1. BACKGROUND AERIAL IMAGE FROM U.S. DEPARTMENT OF AGRICULTURE (USDA) NATIONAL AERIAL IMAGERY PROGRAM (NAIP), OCTOBER 2010.
2. RIVER CONTOURS BASED ON 2004 USACE SURVEY AND REFER TO NAVD 1988.
3. REQUIRMENT PERMIT FOR ALL THREE MISSISSIPPI RIVER BORROW AREAS, WILLS POINT ANCHORAGE SOUTH, ALLIANCE ANCHORAGE, AND ALLIANCE SOUTH. SHALL ONLY EXCAVATE VOLUME REQUIRED TO COMPLETE PROJECT.

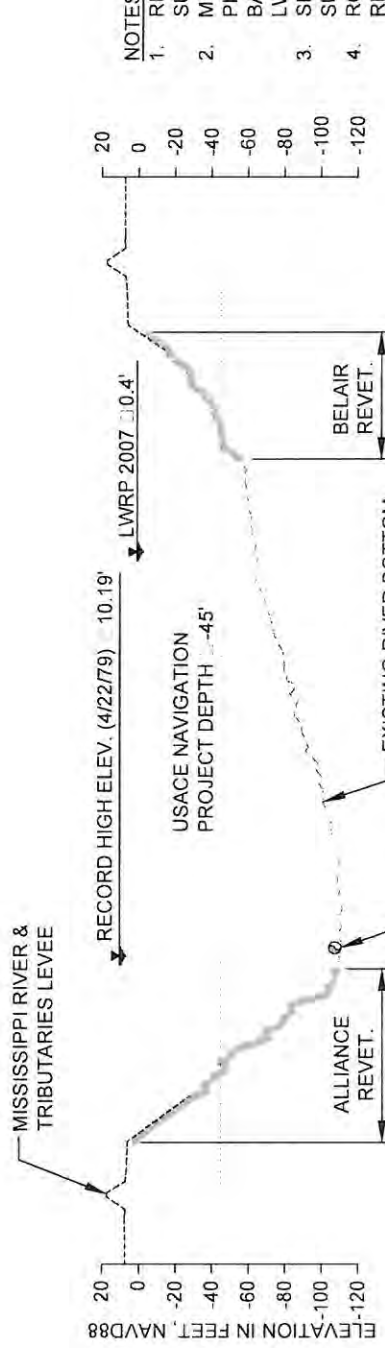
LEGEND	
[Symbol]	BORROW AREA
[Symbol]	EXISTING REVETMENT
[Symbol]	PIPELINE CORRIDOR
[Symbol]	PARISH BOUNDARY
[Symbol]	EXISTING CONTOUR MAJOR
[Symbol]	EXISTING CONTOUR MINOR
[Symbol]	EXISTING PIPELINES
[Symbol]	MISSISSIPPI RIVER MILE (AHP)

BY	DESCRIPTION	DATE	COASTAL PROTECTION & RESTORATION AUTHORITY	
SA	REVISION 3	03/09/12	450 LAUREL STREET BATON ROUGE, LOUISIANA 70801 APPROVED BY: MAURY CHATELLIER, P. E.	
SA	CDM COMMENT RESPONSE	11/18/11		
SA	REVISION 1	10/21/11		
SA	DESIGNED BY: SA			
DRAWN BY: YC			STATE PROJECT NUMBER: BA-43 (EB)	DATE: MARCH 9, 2012
			FEDERAL PROJECT NUMBER: N/A	SHEET 4 OF 41
			MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE	BORROW AREA

LEGEND	
—	AUGUST 2011 SURVEY
---	EXISTING REVETMENT
○	SEDIMENT DELIVERY PIPELINE

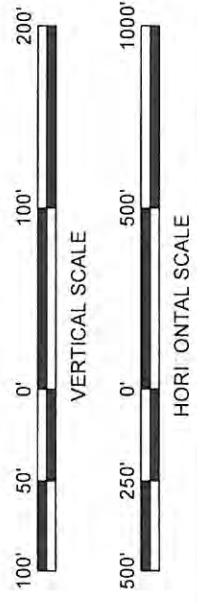



AA
4
TYPICAL MISSISSIPPI RIVER PIPELINE SECTION
RIVER MILE 65.6



B-B
4
TYPICAL MISSISSIPPI RIVER PIPELINE SECTION
RIVER MILE 62.5

- NOTES:
1. RIVER BOTTOM PROFILES BASED ON OSI SURVEY DATED AUGUST 17, 2011.
 2. MISSISSIPPI RIVER SEDIMENT DELIVERY PIPELINE TO BE ROUTED ALONG RIVER BANK AT AN OFFSET 30 FEET FROM THE LWRP.
 3. SEDIMENT DELIVERY PIPELINE MAY BE SUBMERGED OR FLOATING.
 4. ROUTE SUBMERGED PIPELINE OFF TOE OF REVETMENT BELOW -70 FEET NAVD BOTTOM ELEVATION.



BY	DESCRIPTION	DATE	 ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70825 225-927-7783	COASTAL PROTECTION & RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE	TYPICAL MISSISSIPPI RIVER PIPELINE SECTION
	SA	REVISION 3				
SA	CDM COMMENT RESPONSE	11/18/11				
SA	REVISION 1	10/21/11				
DRAWN BY: YC		DESIGNED BY: SA		APPROVED BY: MAURY CHATELLIER, P.E.		
			STATE PROJECT NUMBER: BA-43 (EB)	DATE: MARCH 9, 2012		
			FEDERAL PROJECT NUMBER: N/A	SHEET 5 OF 41		



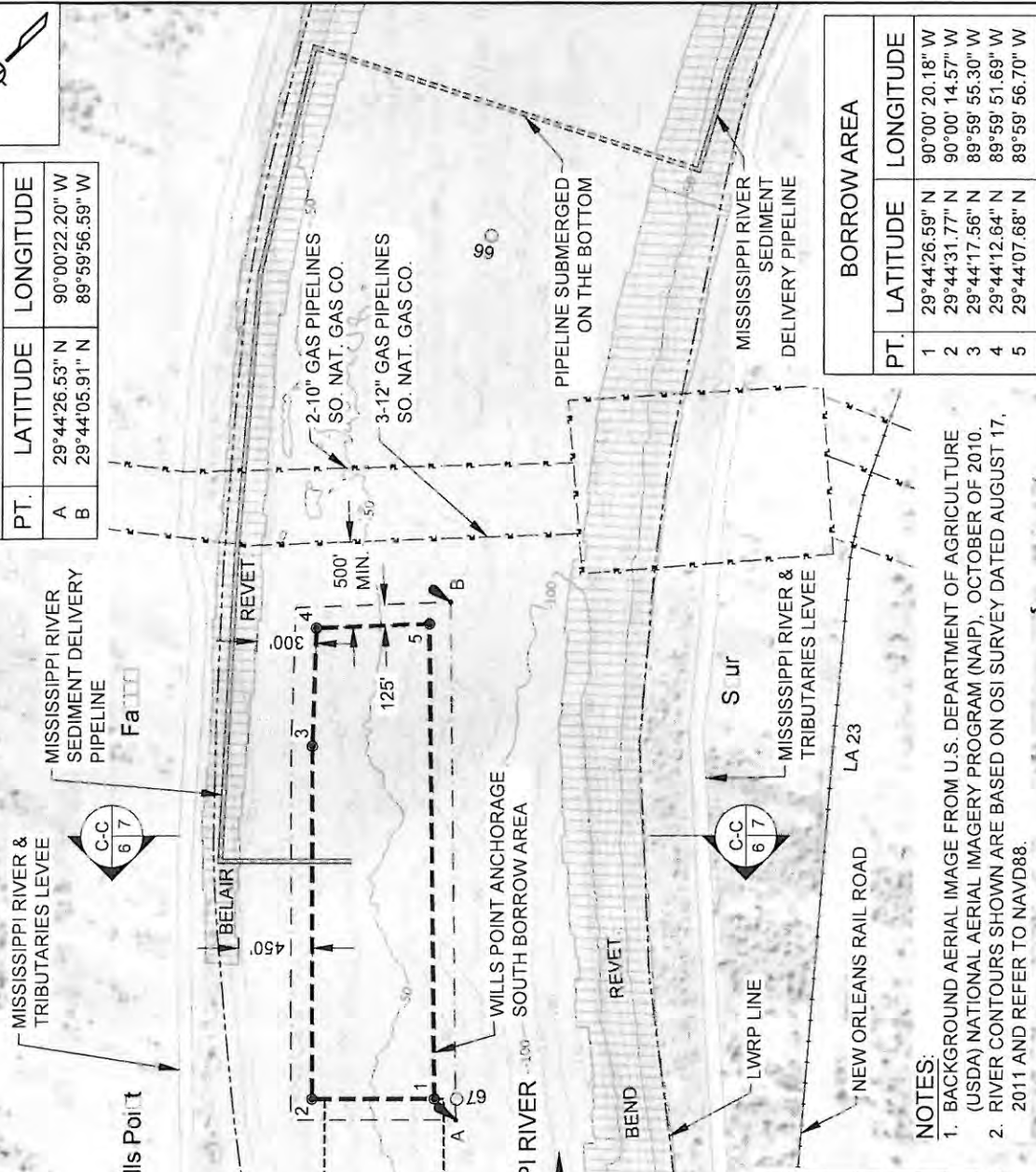
BUOYS MARKING DREDGE ANCHOR LIMITS

PT.	LATITUDE	LONGITUDE
A	29°44'26.53" N	90°00'22.20" W
B	29°44'05.91" N	89°59'56.59" W

LEGEND

- EXISTING REVETMENT
- LDSP BORROW AREA PERIMETER (TOP OF CUT)
- USACE BORROW AREA PERIMETER (TOP OF CUT)
- DREDGE ANCHOR LIMITS
- LWRP LINE
- RAIL ROAD
- CONTOUR MAJOR
- CONTOUR MINOR
- MISSISSIPPI RIVER MILE (AHP)
- BUOY MARKING DREDGE ANCHOR LIMITS

O 65



BORROW AREA

PT.	LATITUDE	LONGITUDE
1	29°44'26.59" N	90°00'20.18" W
2	29°44'31.77" N	90°00'14.57" W
3	29°44'17.56" N	89°59'55.30" W
4	29°44'12.64" N	89°59'51.69" W
5	29°44'07.68" N	89°59'56.70" W

WILLIS POINT SOUTH BORROW AREA PARAMETERS

BORROW AREA ACREAGE	45.2 AC.
BORROW AREA LENGTH	2,800'
BORROW AREA WIDTH	680' TO 715'
BORROW AREA THICKNESS	10' TO 40'
BORROW AREA VOLUME (-90° NAVD88 MAX.)	2.38 MCY

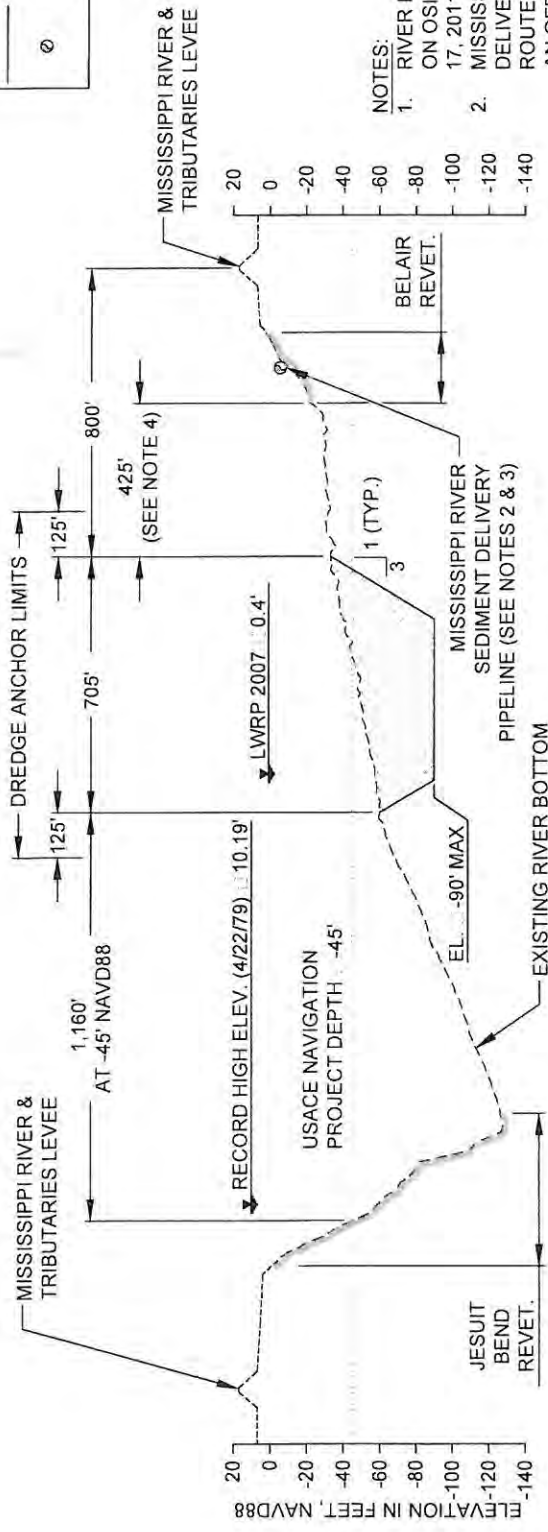
1,000' 500' 0' 1,000' 2,000'

NOTES:

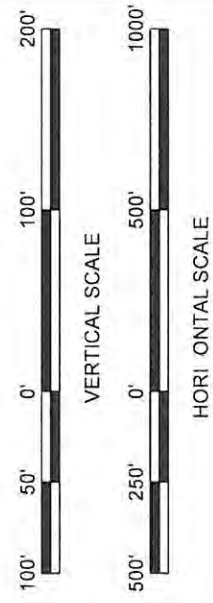
- BACKGROUND AERIAL IMAGE FROM U.S. DEPARTMENT OF AGRICULTURE (USDA) NATIONAL AERIAL IMAGERY PROGRAM (NAIP), OCTOBER OF 2010.
- RIVER CONTOURS SHOWN ARE BASED ON OSI SURVEY DATED AUGUST 17, 2011 AND REFER TO NAVD88.

<p>BY: DESCRIPTION DATE</p> <p>SA REVISION 3 03/09/12</p> <p>SA CDM COMMENT RESPONSE 11/18/11</p> <p>SA REVISION 1 10/21/11</p> <p>DRAWN BY: YC</p>	<p>DESIGNED BY: SA</p> <p>APPROVED BY: MAURY CHATELIER, P.E.</p>	<p>COASTAL PROTECTION & RESTORATION AUTHORITY</p> <p>450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p> <p>MOFFATT & NICROUL 225-927-7753</p>	<p>MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE</p>	<p>WILLIS POINT BORROW AREA LAYOUT</p>
			<p>STATE PROJECT NUMBER: BA-43 (EB)</p>	<p>DATE: MARCH 9, 2012</p>
<p>FEDERAL PROJECT NUMBER: N/A</p>			<p>SHEET 6 OF 41</p>	

LEGEND	
[Symbol]	BORROW AREA
[Symbol]	AUGUST 2011 SURVEY
[Symbol]	APPROX. EXISTING GRADE
[Symbol]	EXISTING REVETMENT
[Symbol]	DESIGN
[Symbol]	SEDIMENT DELIVERY PIPELINE

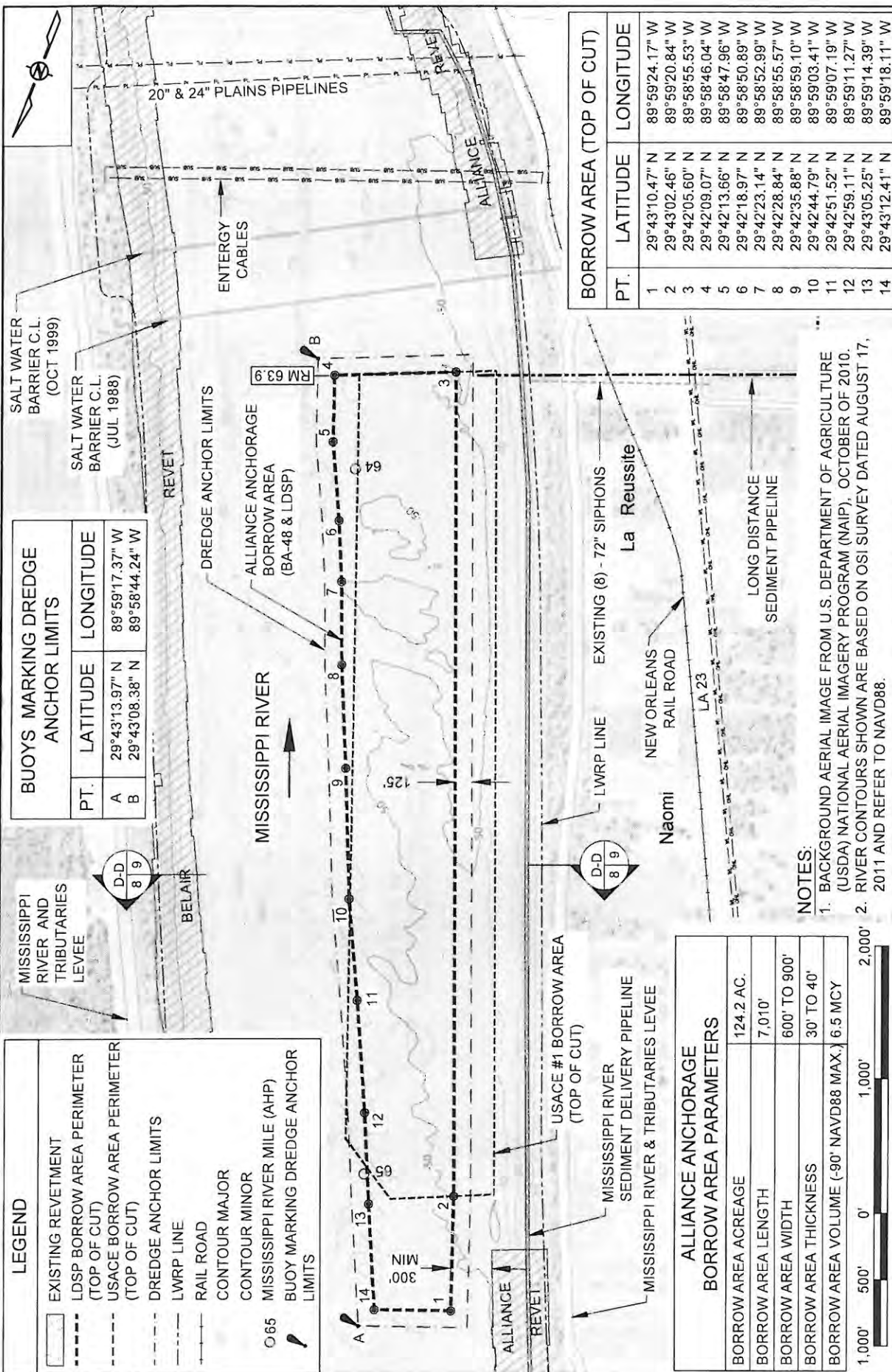


- NOTES:
1. RIVER BOTTOM PROFILE BASED ON OSI SURVEY DATED AUGUST 17, 2011.
 2. MISSISSIPPI RIVER SEDIMENT DELIVERY PIPELINE TO BE ROUTED ALONG RIVER BANK AT AN OFFSET 30 FEET FROM THE LWRP.
 3. SEDIMENT DELIVERY PIPELINE MAY BE SUBMERGED OR FLOATING.
 4. MINIMUM DISTANCE BETWEEN TOP OF CUT AND TOE OF BELAIR REVETMENT VARIES FROM 300 TO 450 FEET.



WILLS POINT ANCHORAGE SOUTH
RIVER MILE 66.7

BY	DESCRIPTION	DATE	<p>MOFFATT & NICHOL ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70825 225-927-7753</p>	<p>COASTAL PROTECTION & RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>	<p>MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE</p>	<p>WILLS POINT ANCHORAGE SOUTH BORROW AREA TYPICAL SECTION</p>
SA	REVISION 3	03/09/12				
SA	CDM COMMENT RESPONSE	11/18/11				
SA	REVISION 1	102/1/11				
DRAWN BY: YC		DESIGNED BY: SA		APPROVED BY: MAURY CHATELIER, P.E.		<p>STATE PROJECT NUMBER: BA-43 (EB)</p> <p>FEDERAL PROJECT NUMBER: N/A</p>
				DATE: MARCH 9, 2012		



BUOYS MARKING DREDGE ANCHOR LIMITS

PT.	LATITUDE	LONGITUDE
A	29°43'13.97" N	89°59'17.37" W
B	29°43'08.38" N	89°58'44.24" W

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°42'05.60" N	89°58'55.53" W
4	29°42'09.07" N	89°58'46.04" W
5	29°42'13.66" N	89°58'47.96" W
6	29°42'18.97" N	89°58'50.89" W
7	29°42'23.14" N	89°58'52.99" W
8	29°42'28.84" N	89°58'55.57" W
9	29°42'35.88" N	89°58'59.10" W
10	29°42'44.79" N	89°59'03.41" W
11	29°42'51.52" N	89°59'07.19" W
12	29°42'59.11" N	89°59'11.27" W
13	29°43'05.25" N	89°59'14.39" W
14	29°43'12.41" N	89°59'18.11" W

ALLIANCE ANCHORAGE BORROW AREA PARAMETERS

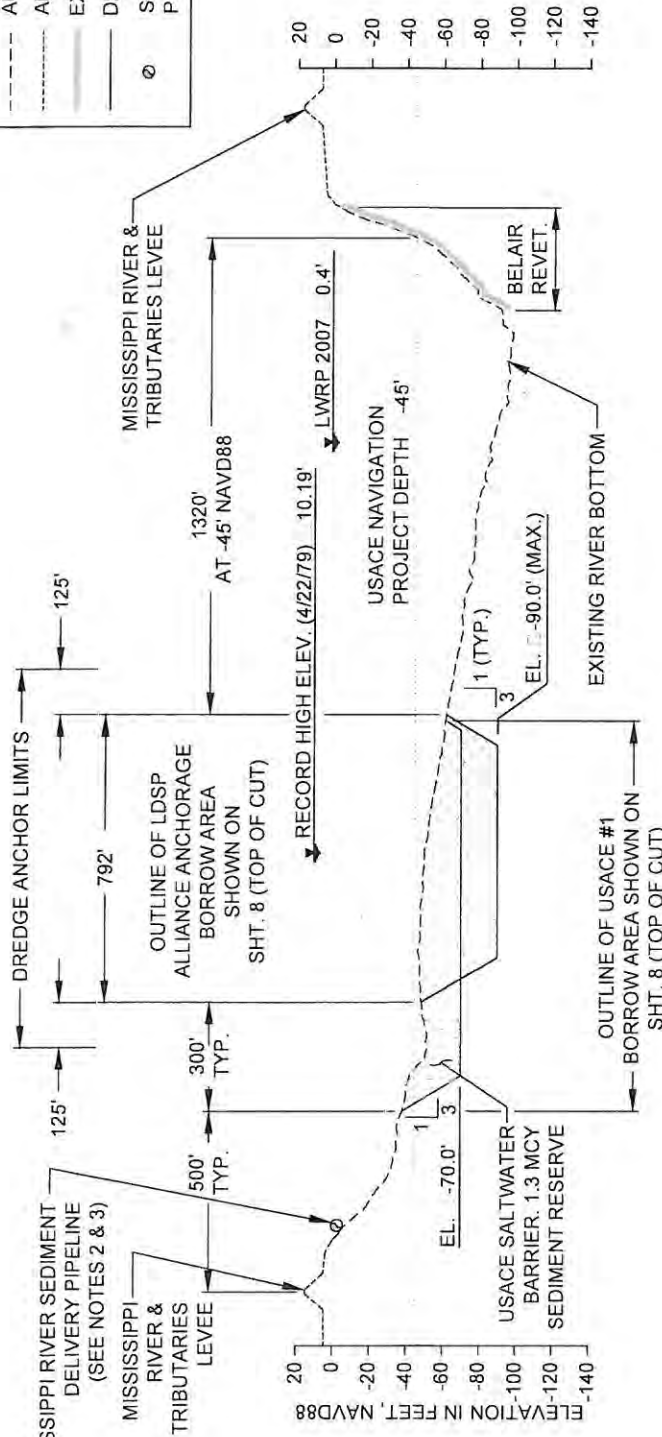
BORROW AREA ACREAGE	124.2 AC.
BORROW AREA LENGTH	7,010'
BORROW AREA WIDTH	600' TO 900'
BORROW AREA THICKNESS	30' TO 40'
BORROW AREA VOLUME (-90' NAVD88 MAX.)	6.5 MCY

NOTES:
 1. BACKGROUND AERIAL IMAGE FROM U.S. DEPARTMENT OF AGRICULTURE (USDA) NATIONAL AERIAL IMAGERY PROGRAM (NAIP), OCTOBER OF 2010.
 2. RIVER CONTOURS SHOWN ARE BASED ON OSI SURVEY DATED AUGUST 17, 2011 AND REFER TO NAVD88.

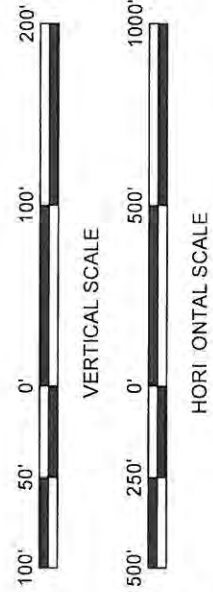
BY DESCRIPTION DATE SA REVISION 3 03/09/12 SA CDM COMMENT RESPONSE 11/18/11 SA REVISION 1 10/21/11	 ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70825 225-927-7753	COASTAL PROTECTION & RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE	ALLIANCE ANCHORAGE BORROW AREA LAYOUT
		DRAWN BY: YC DESIGNED BY: SA	APPROVED BY: MAURY CHATELIER, P.E.	STATE PROJECT NUMBER: BA-43 (EB) FEDERAL PROJECT NUMBER: N/A

LEGEND

	LDSP BORROW AREA
	SALTWATER BARRIER RESERVE
	AUGUST 2011 SURVEY
	APPROX. EXISTING GRADE
	EXISTING REVETMENT
	DESIGN
	SEDIMENT DELIVERY PIPELINE



D-D 8 ALLIANCE ANCHORAGE BORROW AREA RIVER MILE 64.3



- NOTES:**
1. RIVER BOTTOM PROFILE BASED ON OSI SURVEY DATED AUGUST 17, 2011.
 2. MISSISSIPPI RIVER SEDIMENT DELIVERY PIPELINE TO BE ROUTED ALONG RIVER BANK AT AN OFFSET 30 FEET FROM THE LWRP.
 3. SEDIMENT DELIVERY PIPELINE MAY BE SUBMERGED OR FLOATING.
 4. MINIMUM DISTANCE BETWEEN TOP OF CUT AND TOE OF ALLIANCE REVETMENT IS 300 FEET.

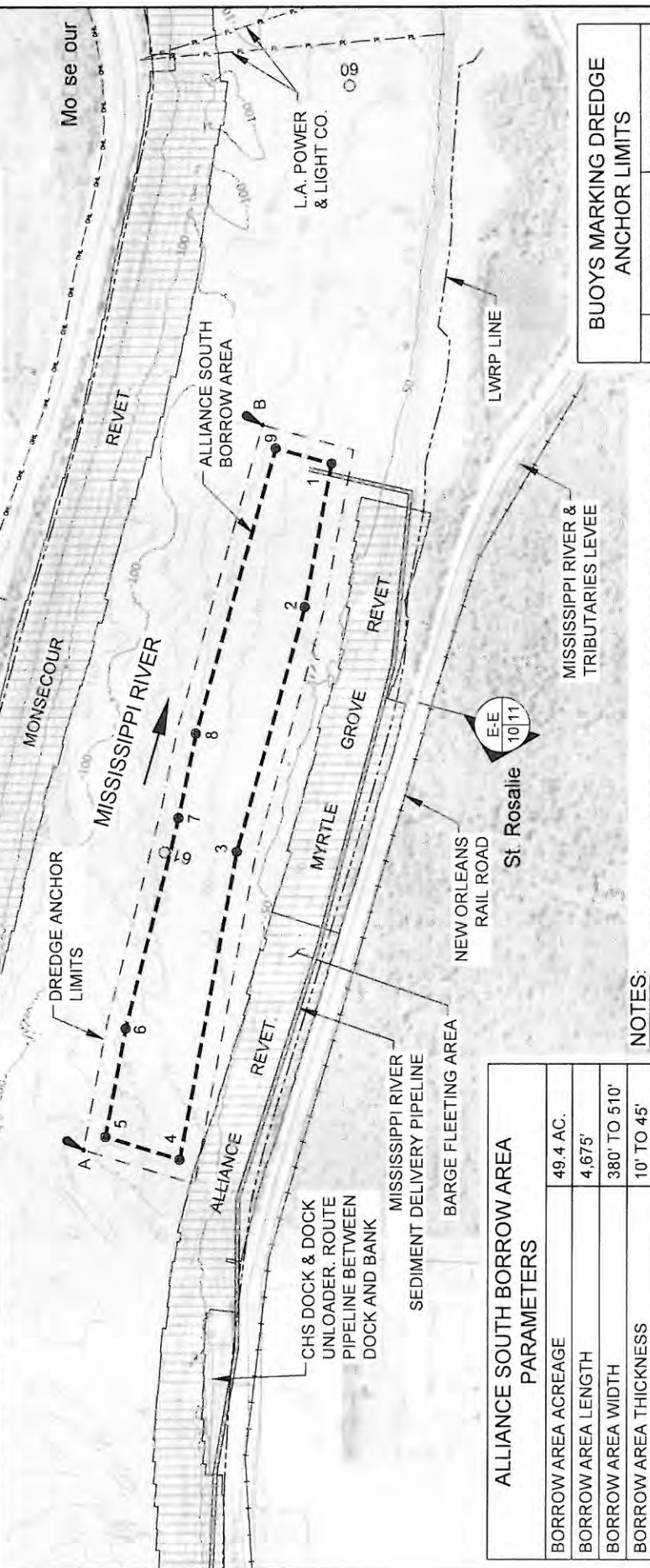
BY SA	DESCRIPTION REVISION 3	DATE 03/09/12	 ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70825 225-927-7793	COASTAL PROTECTION & RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE	ALLIANCE ANCHORAGE BORROW AREA TYPEICAL ECTION
SA	CDM COMMENT RESPONSE	11/18/11				
SA	REVISION 1	10/21/11	APPROVED BY: MAURY CHATELIER, P.E.	FEDERAL PROJECT NUMBER N/A	DATE MARCH 9, 2012	SHEET 9 OF 41
DRAWN BY: YC						



LEGEND	
[Solid line]	EXISTING REVETMENT
[Dashed line]	LDSP BORROW AREA
[Dotted line]	PERIMETER (TOP OF CUT)
[Dash-dot line]	DREDGE ANCHOR LIMITS
[Long dashed line]	LWRP LINE
[Short dashed line]	RAIL ROAD
[Thick solid line]	CONTOUR MAJOR
[Thin solid line]	CONTOUR MINOR
[Circle with 'C']	MISSISSIPPI RIVER MILE (AHP)

BORROW AREA		
PT.	LATITUDE	LONGITUDE
1	29° 39' 28.84" N	89° 57' 34.83" W
2	29° 39' 38.21" N	89° 57' 36.89" W
3	29° 39' 54.65" N	89° 57' 38.79" W
4	29° 40' 14.66" N	89° 57' 43.18" W
5	29° 40' 15.02" N	89° 57' 37.45" W
6	29° 40' 07.95" N	89° 57' 35.89" W
7	29° 39' 53.95" N	89° 57' 33.84" W
8	29° 39' 48.38" N	89° 57' 32.73" W
9	29° 39' 29.21" N	89° 57' 30.56" W

ALLIANCE SOUTH BORROW AREA PARAMETERS	
BORROW AREA ACREAGE	49.4 AC.
BORROW AREA LENGTH	4,675'
BORROW AREA WIDTH	380' TO 510'
BORROW AREA THICKNESS	10' TO 45'
BORROW AREA VOLUME (-90' NAVD88 MAX.)	1.7 MCY



BUOYS MARKING DREDGE ANCHOR LIMITS		
PT.	LATITUDE	LONGITUDE
A	29°40'16.33" N	89°57'36.29" W
B	29°39'28.10" N	89°57'29.01" W

NOTES:
 1. BACKGROUND AERIAL IMAGE FROM U.S. DEPARTMENT OF AGRICULTURE (USDA) NATIONAL AERIAL IMAGERY PROGRAM (NAIP), OCTOBER OF 2010.
 2. RIVER CONTOURS SHOWN ARE BASED ON OSI SURVEY DATED AUGUST 17, 2011 AND REFER TO NAVD88.

BY	DESCRIPTION	DATE
SA	REVISION 3	03/09/12
SA	CDM COMMENT RESPONSE	11/18/11
SA	REVISION 1	10/21/11
DRAWN BY: YC		
DESIGNED BY: SA		
APPROVED BY: MAURY CHATELLIER, P. E.		

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







MISSISSIPPI RIVER
 LONG DISTANCE SEDIMENT PIPELINE

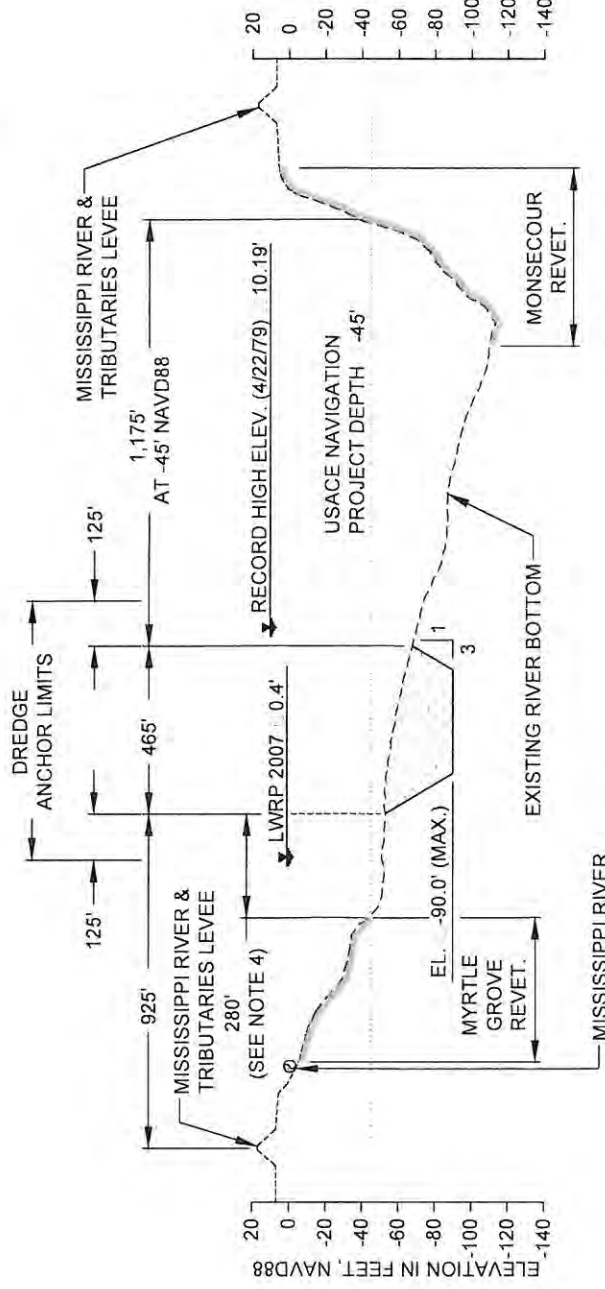
STATE PROJECT NUMBER: BA-43 (EB)
 FEDERAL PROJECT NUMBER: N/A

DATE: MARCH 9, 2012
 SHEET 10 OF 41

ALLIANCE SOUTH BORROW AREA LAYOUT

LEGEND

-  BORROW AREA
-  AUGUST 2011 SURVEY
-  APPROX. EXISTING GRADE
-  EXISTING REVETMENT
-  DESIGN
-  SEDIMENT DELIVERY PIPELINE



- NOTES:**
- RIVER BOTTOM PROFILE BASED ON OSI SURVEY DATED AUGUST 17, 2011.
 - MISSISSIPPI RIVER SEDIMENT DELIVERY PIPELINE TO BE ROUTED ALONG RIVER BANK AT AN OFFSET 30 FEET FROM THE LWRP.
 - SEDIMENT DELIVERY PIPELINE MAY BE SUBMERGED OR FLOATING.
 - MINIMUM DISTANCE BETWEEN TOP OF CUT AND TOE OF MYRTLE GROVE REVETMENT VARIES FROM 110 TO 340 FEET.

E-E ALLIANCE SOUTH BORROW AREA
RIVER MILE 60.7

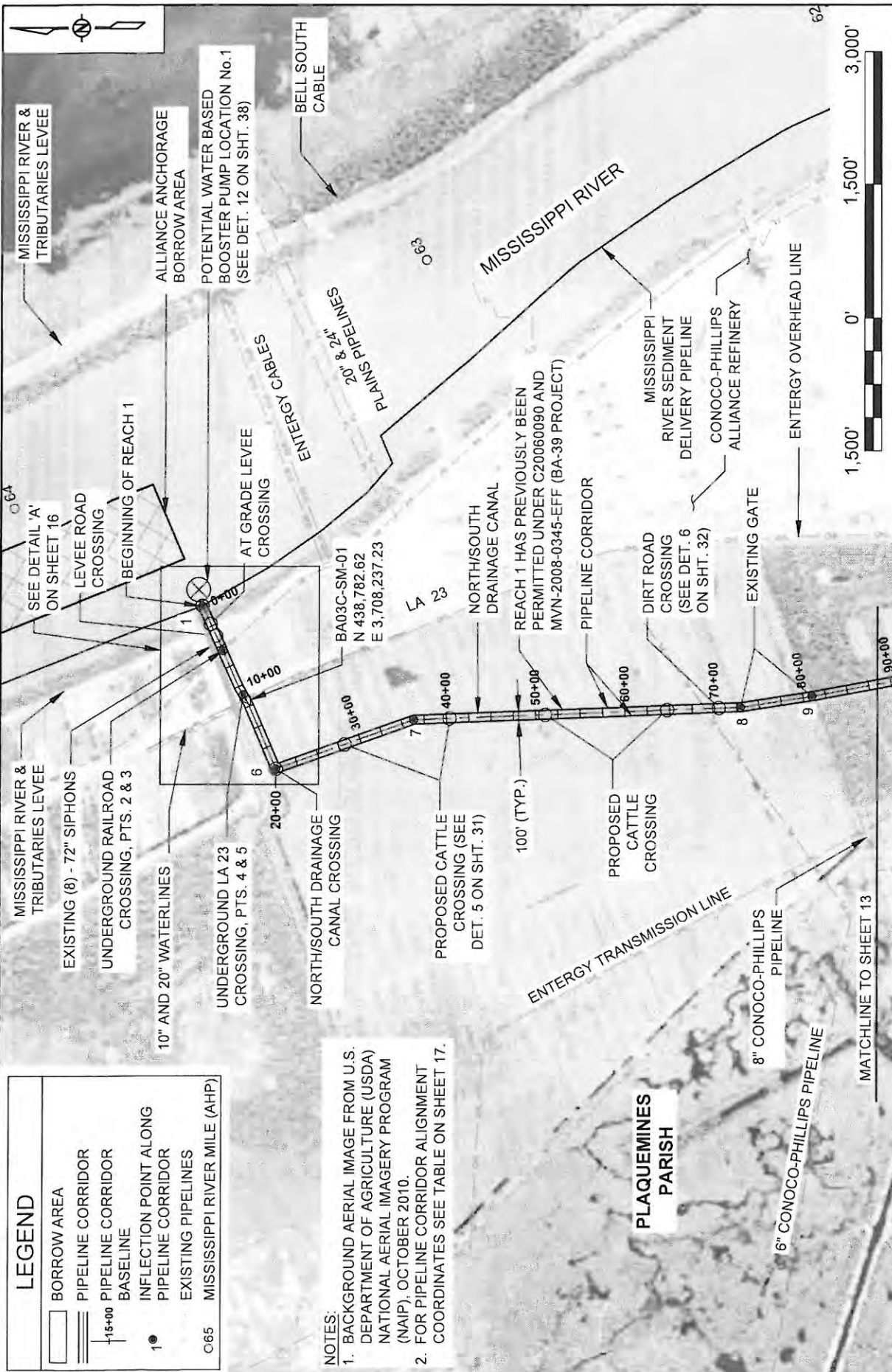


VERTICAL SCALE



HORIZONTAL SCALE

BY	DESCRIPTION	DATE	 ONE AMERICAN PLACE 301 MAIN STREET, SUITE 600 BATON ROUGE, LA 70825 225-927-7783	COASTAL PROTECTION & RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE	ALLIANCE SOUTH BORROW AREA TYPEICAL ACTION
	SA	REVISION 3				
SA	CDM COMMENT RESPONSE	11/18/11			STATE PROJECT NUMBER BA-43 (EB)	DATE: MARCH 9, 2012
SA	REVISION 1	10/21/11			FEDERAL PROJECT NUMBER N/A	SHEET 11 OF 41
DRAWN BY: YC		DESIGNED BY: SA		APPROVED BY: MAURY CHATELIER, P.E.		

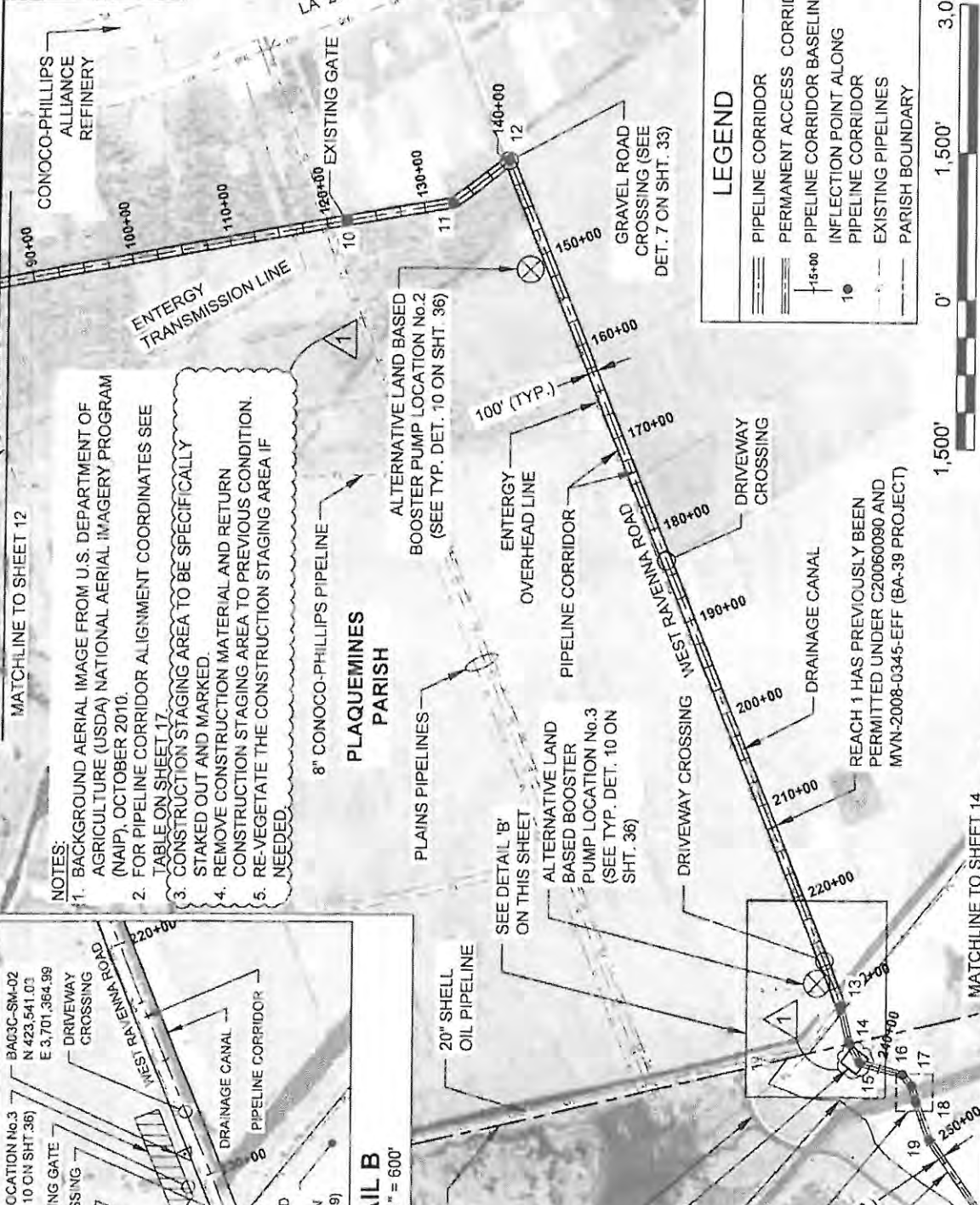
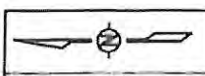


LEGEND	
[Symbol]	BORROW AREA
[Symbol]	PIPELINE CORRIDOR
[Symbol]	PIPELINE CORRIDOR BASELINE
[Symbol]	INFLECTION POINT ALONG PIPELINE CORRIDOR
[Symbol]	EXISTING PIPELINES
[Symbol]	C65 MISSISSIPPI RIVER MILE (AHP)

NOTES:

- BACKGROUND AERIAL IMAGE FROM U.S. DEPARTMENT OF AGRICULTURE (USDA) NATIONAL AERIAL IMAGERY PROGRAM (NAIP), OCTOBER 2010.
- FOR PIPELINE CORRIDOR ALIGNMENT COORDINATES SEE TABLE ON SHEET 17.

BY	DESCRIPTION	DATE	<p>ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70825 225-527-7783</p>	<p>COASTAL PROTECTION & RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>	<p>MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE</p>	<p>LINE CORRIDOR LAYOUT</p>
SA	REVISION 3	03/09/12				
SA	CDM COMMENT RESPONSE	11/18/11				
SA	REVISION 1	10/21/11				
DRAWN BY: YC			APPROVED BY: MAURY CHATELLIER, P.E.	FEDERAL PROJECT NUMBER: N/A	STATE PROJECT NUMBER: BA-43 (EB)	DATE: MARCH 9, 2012
					SHEET 12 OF 41	

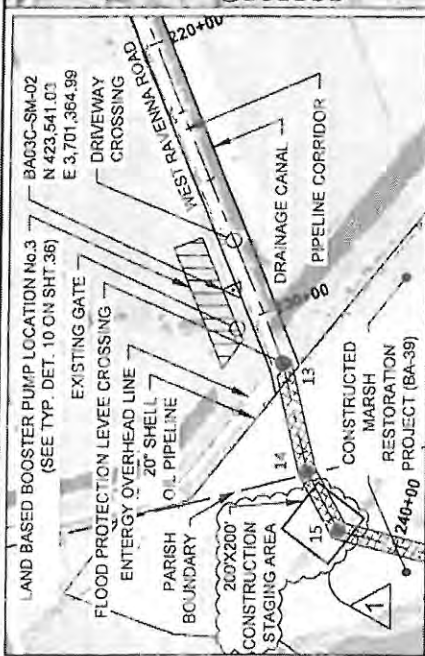


LEGEND

- PIPELINE CORRIDOR
- PERMANENT ACCESS CORRIDOR
- PIPELINE CORRIDOR BASELINE
- INFLECTION POINT ALONG PIPELINE CORRIDOR
- EXISTING PIPELINES
- PARISH BOUNDARY



- NOTES:**
1. BACKGROUND AERIAL IMAGE FROM U.S. DEPARTMENT OF AGRICULTURE (USDA) NATIONAL AERIAL IMAGERY PROGRAM (NAIP), OCTOBER 2010.
 2. FOR PIPELINE CORRIDOR ALIGNMENT COORDINATES SEE TABLE ON SHEET 17.
 3. CONSTRUCTION STAGING AREA TO BE SPECIFICALLY STAKED OUT AND MARKED.
 4. REMOVE CONSTRUCTION MATERIAL AND RETURN CONSTRUCTION STAGING AREA TO PREVIOUS CONDITION.
 5. RE-VEGETATE THE CONSTRUCTION STAGING AREA IF NEEDED.



DETAIL B
SCALE: 1" = 600'

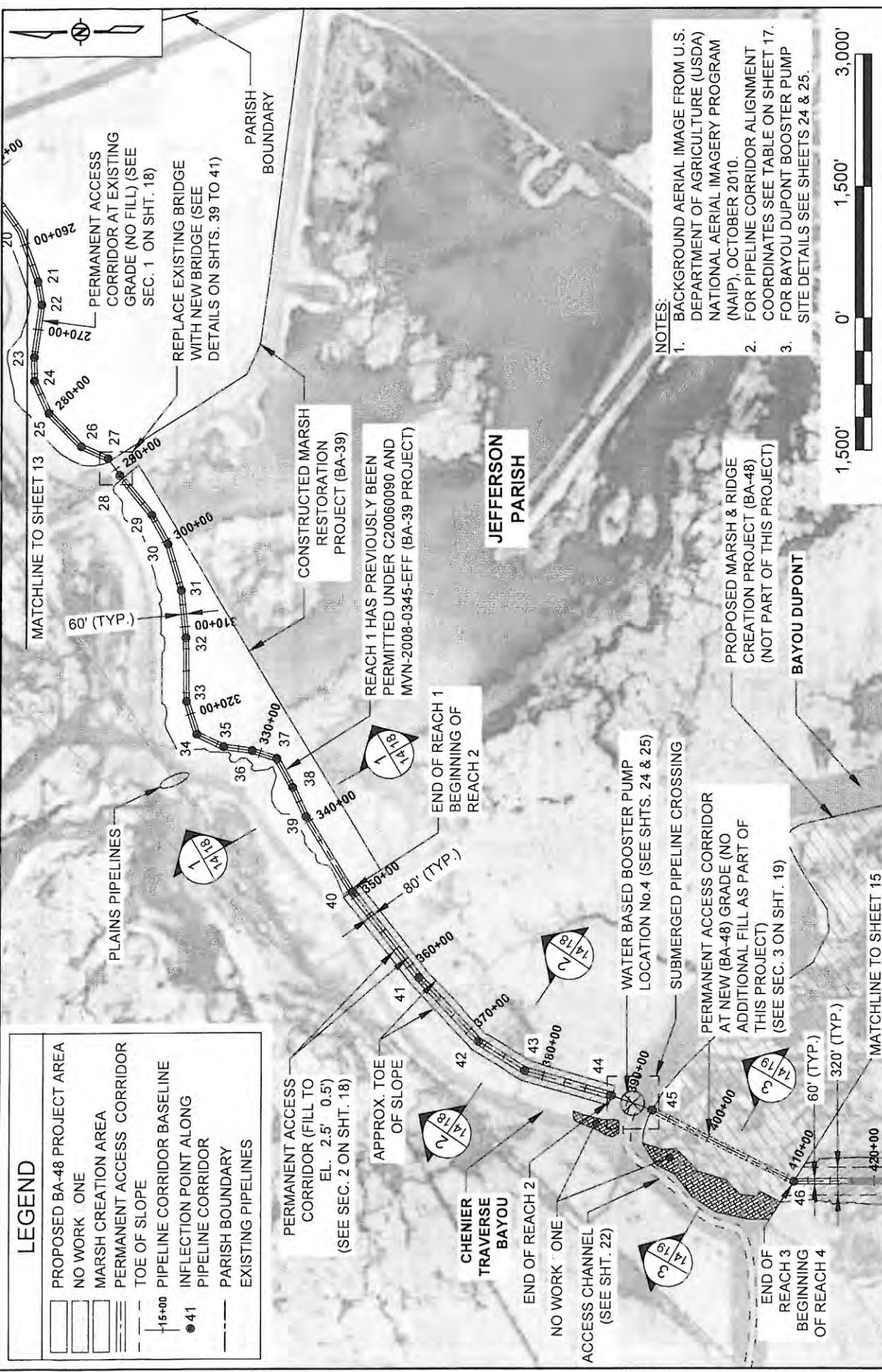
CHENIER TRAVERSE BAYOU
200'X200'
CONSTRUCTION STAGING AREA

CONSTRUCTED MARSH RESTORATION PROJECT (BA-39)

EXISTING PERMANENT CROSSING WITH CULVERTS TO REMAIN

PERMANENT ACCESS CORRIDOR AT GRADE (NO FILL) (SEE SEC 1 ON SHT. 18)

BY	DESCRIPTION	DATE	<p>COASTAL PROTECTION & RESTORATION AUTHORITY 460 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>	<p>MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE</p> <p>PIPELINE CORRIDOR LAYOUT (2 OF 4)</p>
SA	AMENDMENT 1	05/25/14		
SA	REVISION 6	05/15/14		
SA	REVISION 5	12/12/12		
DRAWN BY: YC			DESIGNED BY: SA	APPROVED BY: MAURY CHATELLIER, P.E.
STATE PROJECT NUMBER: BA-43 (EB)			FEDERAL PROJECT NUMBER: N/A	DATE: DECEMBER 12, 2012
DATE: DECEMBER 12, 2012			SHEET 13 OF 41	

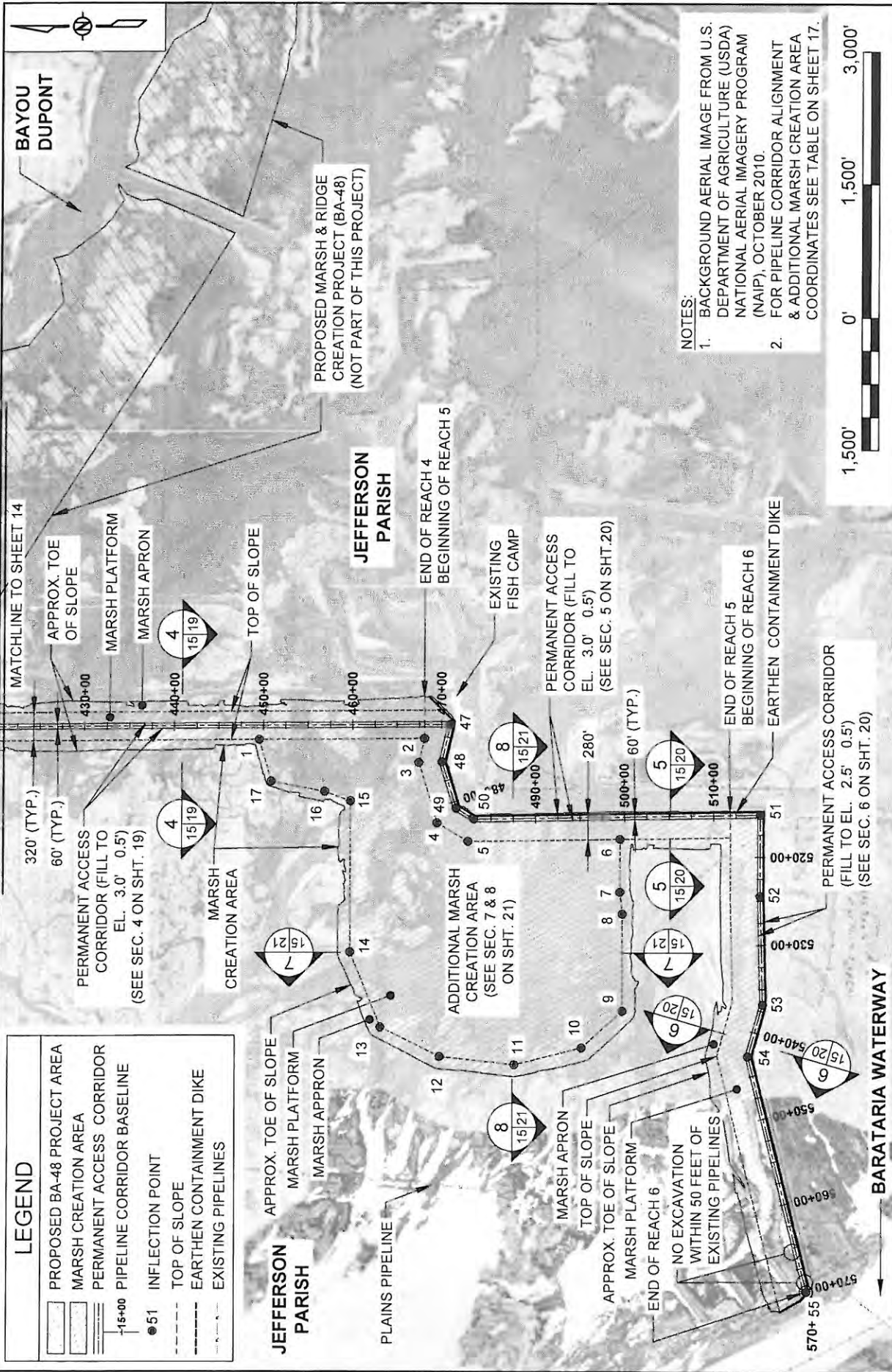


- NOTES:**
1. BACKGROUND AERIAL IMAGE FROM U.S. DEPARTMENT OF AGRICULTURE (USDA) NATIONAL AERIAL IMAGERY PROGRAM (NAIP), OCTOBER 2010.
 2. FOR PIPELINE CORRIDOR ALIGNMENT COORDINATES SEE TABLE ON SHEET 17.
 3. FOR BAYOU DUPONT BOOSTER PUMP SITE DETAILS SEE SHEETS 24 & 25.

LEGEND

[Symbol]	PROPOSED BA-48 PROJECT AREA
[Symbol]	NO WORK ONE
[Symbol]	MARSH CREATION AREA
[Symbol]	PERMANENT ACCESS CORRIDOR
[Symbol]	TOE OF SLOPE
[Symbol]	PIPELINE CORRIDOR BASELINE
[Symbol]	INFLECTION POINT ALONG PIPELINE CORRIDOR
[Symbol]	PARISH BOUNDARY
[Symbol]	EXISTING PIPELINES

BY	DESCRIPTION	DATE	<p>COASTAL PROTECTION & RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>	<p>MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE</p>	<p>LINE CORRIDOR LAYOUT []</p>
SA	REVISION 3	03/09/12			
SA	CDM COMMENT RESPONSE	11/18/11			
SA	REVISION 1	10/2/11			
DRAWN BY: YC			APPROVED BY: MAURY CHATELLIER, P.E.	FEDERAL PROJECT NUMBER: N/A	SHEET 14 OF 41
			DESIGNED BY: SA	STATE PROJECT NUMBER: BA-43 (EB)	DATE: MARCH 9, 2012

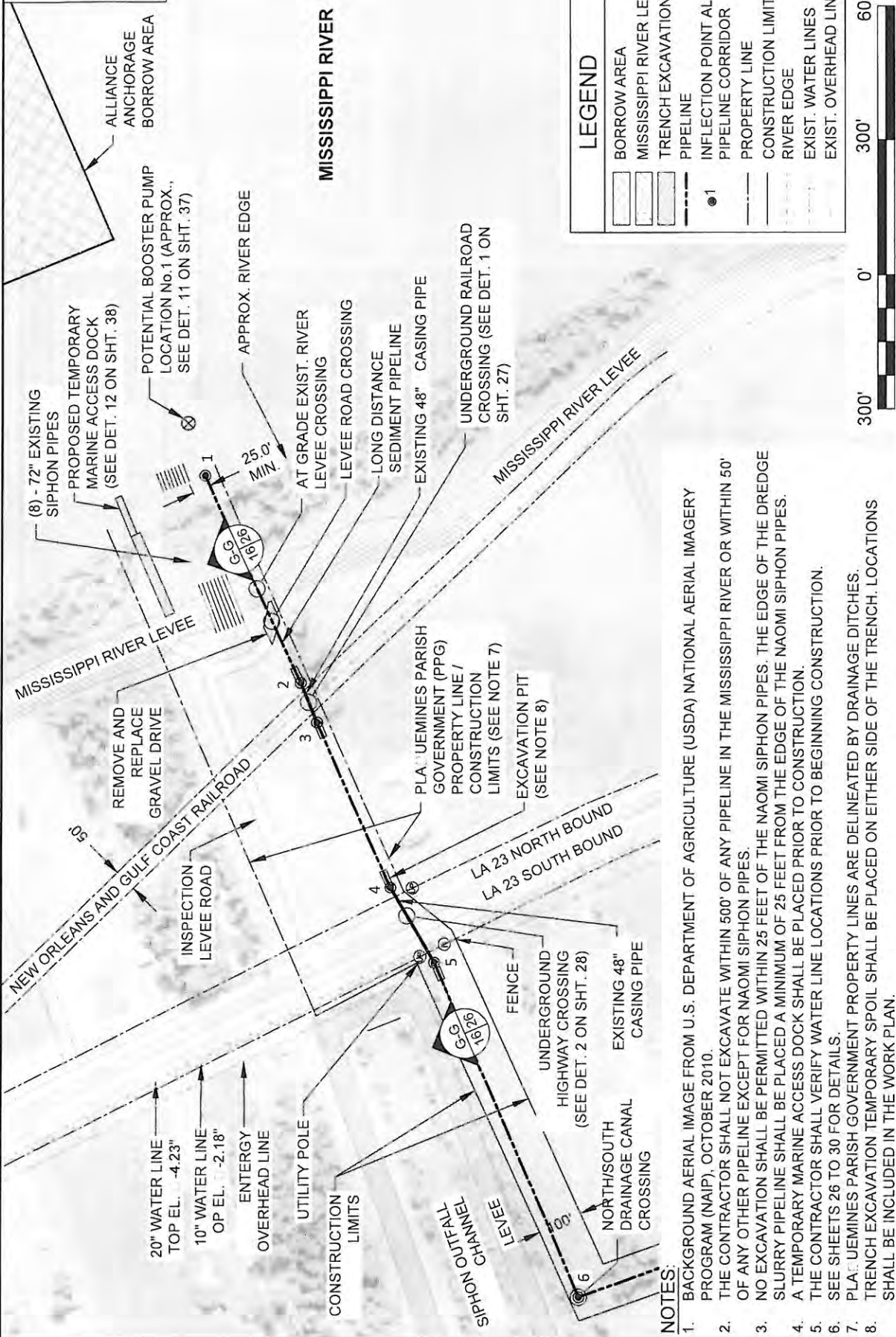
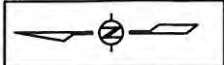


NOTES:

- BACKGROUND AERIAL IMAGE FROM U.S. DEPARTMENT OF AGRICULTURE (USDA) NATIONAL AERIAL IMAGERY PROGRAM (NAIP), OCTOBER 2010.
- FOR PIPELINE CORRIDOR ALIGNMENT & ADDITIONAL MARSH CREATION AREA COORDINATES SEE TABLE ON SHEET 17.

LEGEND	
[Symbol]	PROPOSED BA-48 PROJECT AREA
[Symbol]	MARSH CREATION AREA
[Symbol]	PERMANENT ACCESS CORRIDOR
[Symbol]	PIPELINE CORRIDOR BASELINE
[Symbol]	INFLECTION POINT
[Symbol]	TOP OF SLOPE
[Symbol]	EARTHEN CONTAINMENT DIKE
[Symbol]	EXISTING PIPELINES

BY: SA	DESCRIPTION: REVISION 3	DATE: 03/09/12	COASTAL PROTECTION & RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE	I. ELINE CORRI LAYOUT O		
SA	CDM COMMENT RESPONSE	11/18/11				STATE PROJECT NUMBER: BA-43 (EB)	DATE: MARCH 9, 2012
SA	REVISION 1	10/21/11				FEDERAL PROJECT NUMBER: N/A	SHEET 15 OF 41
DRAWN BY: YC		DESIGNED BY: SA		APPROVED BY: MAURY CHATELIER, P.E.			



LEGEND	
[Symbol]	BORROW AREA
[Symbol]	MISSISSIPPI RIVER LEVEE
[Symbol]	TRENCH EXCAVATION
[Symbol]	PIPELINE
[Symbol]	INFLECTION POINT ALONG PIPELINE CORRIDOR
[Symbol]	PROPERTY LINE
[Symbol]	CONSTRUCTION LIMITS
[Symbol]	RIVER EDGE
[Symbol]	EXIST. WATER LINES
[Symbol]	EXIST. OVERHEAD LINES



NOTES:

- BACKGROUND AERIAL IMAGE FROM U.S. DEPARTMENT OF AGRICULTURE (USDA) NATIONAL AERIAL IMAGERY PROGRAM (NAIP), OCTOBER 2010.
- THE CONTRACTOR SHALL NOT EXCAVATE WITHIN 500' OF ANY PIPELINE IN THE MISSISSIPPI RIVER OR WITHIN 50' OF ANY OTHER PIPELINE EXCEPT FOR NAOMI SIPHON PIPES.
- NO EXCAVATION SHALL BE PERMITTED WITHIN 25 FEET OF THE EDGE OF THE DREDGE SLURRY PIPELINE SHALL BE PLACED A MINIMUM OF 25 FEET FROM THE EDGE OF THE NAOMI SIPHON PIPES.
- A TEMPORARY MARINE ACCESS DOCK SHALL BE PLACED PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL VERIFY WATER LINE LOCATIONS PRIOR TO BEGINNING CONSTRUCTION.
- SEE SHEETS 26 TO 30 FOR DETAILS.
- PLA: JEMINES PARISH GOVERNMENT PROPERTY LINES ARE DELINEATED BY DRAINAGE DITCHES.
- TRENCH EXCAVATION TEMPORARY SPOIL SHALL BE PLACED ON EITHER SIDE OF THE TRENCH. LOCATIONS SHALL BE INCLUDED IN THE WORK PLAN.

BY	DESCRIPTION	DATE
SA	REVISION 3	09/09/12
SA	CDM COMMENT RESPONSE	11/18/11
SA	REVISION 1	10/21/11

DESIGNED BY: SA	APPROVED BY: MAURY CHATELIER, P.E.
 MOFFATT & NICHOL <small>ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70825 225-927-7793</small>	
COASTAL PROTECTION & RESTORATION AUTHORITY	
450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	
MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE	
STATE PROJECT NUMBER: BA-43 (EB)	FEDERAL PROJECT NUMBER: N/A
DATE: MARCH 9, 2012	SHEET 16 OF 41
[] PIPELINE CORRIDOR [] DETAIL A	

PIPELINE CORRIDOR ALIGNMENT

PT.	LATITUDE	LONGITUDE
1	29° 42' 03.65" N	90° 59' 01.44" W
2	29° 42' 01.58" N	90° 59' 06.71" W
3	29° 42' 01.24" N	90° 59' 07.71" W
4	29° 41' 59.67" N	90° 59' 11.90" W
5	29° 41' 58.73" N	90° 59' 13.82" W
6	29° 41' 55.64" N	90° 59' 16.22" W
7	29° 41' 40.40" N	90° 59' 16.32" W
8	29° 41' 04.23" N	90° 59' 15.22" W
9	29° 40' 56.28" N	90° 59' 13.92" W
10	29° 40' 16.32" N	90° 59' 06.00" W
11	29° 40' 05.58" N	90° 59' 04.03" W
12	29° 40' 00.10" N	90° 58' 59.20" W
13	29° 39' 27.14" N	90° 00' 36.31" W
14	29° 39' 26.32" N	90° 00' 40.52" W
15	29° 39' 25.26" N	90° 00' 42.84" W
16	29° 39' 21.00" N	90° 00' 45.51" W
17	29° 39' 20.08" N	90° 00' 44.18" W
18	29° 39' 19.67" N	90° 00' 47.36" W
19	29° 39' 18.35" N	90° 00' 51.73" W
20	29° 39' 13.49" N	90° 00' 59.89" W
21	29° 39' 11.57" N	90° 01' 06.43" W
22	29° 39' 12.07" N	90° 01' 09.43" W
23	29° 39' 12.08" N	90° 01' 16.15" W
24	29° 39' 10.50" N	90° 01' 19.20" W
25	29° 39' 10.50" N	90° 01' 23.40" W
26	29° 39' 06.93" N	90° 01' 27.77" W
27	29° 39' 03.93" N	90° 01' 29.37" W
28	29° 39' 02.66" N	90° 01' 31.56" W
29	29° 38' 59.09" N	90° 01' 36.77" W
30	29° 38' 57.33" N	90° 01' 40.53" W
31	29° 38' 55.85" N	90° 01' 46.47" W
32	29° 38' 55.39" N	90° 01' 52.52" W
33	29° 38' 55.40" N	90° 02' 00.71" W
34	29° 38' 54.26" N	90° 02' 05.00" W
35	29° 38' 51.24" N	90° 02' 06.67" W
36	29° 38' 48.03" N	90° 02' 07.20" W
37	29° 38' 45.29" N	90° 02' 08.26" W
38	29° 38' 43.58" N	90° 02' 11.97" W
39	29° 38' 42.10" N	90° 02' 15.78" W
40	29° 38' 37.05" N	90° 02' 25.47" W
41	29° 38' 29.71" N	90° 02' 36.65" W
42	29° 38' 23.16" N	90° 02' 45.01" W
43	29° 38' 17.99" N	90° 02' 48.83" W
44	29° 38' 08.30" N	90° 02' 52.14" W
45	29° 38' 03.70" N	90° 02' 54.05" W

ADDITIONAL MARSH AREA
(TOP OF SLOPE)

PT.	LATITUDE	LONGITUDE
1	29° 37' 09.74" N	90° 03' 05.44" W
2	29° 36' 51.36" N	90° 03' 05.55" W
3	29° 36' 52.00" N	90° 03' 08.60" W
4	29° 36' 50.03" N	90° 03' 16.24" W
5	29° 36' 46.63" N	90° 03' 18.64" W
6	29° 36' 29.72" N	90° 03' 18.55" W
7	29° 36' 29.79" N	90° 03' 25.34" W
8	29° 36' 29.53" N	90° 03' 28.15" W
9	29° 36' 29.65" N	90° 03' 40.60" W
10	29° 36' 34.21" N	90° 03' 45.20" W
11	29° 36' 41.70" N	90° 03' 47.24" W
12	29° 36' 49.99" N	90° 03' 46.13" W
13	29° 36' 56.56" N	90° 03' 42.32" W
14	29° 36' 59.84" N	90° 03' 32.70" W
15	29° 36' 59.65" N	90° 03' 13.33" W
16	29° 37' 02.51" N	90° 03' 12.08" W
17	29° 37' 08.41" N	90° 03' 10.74" W


PROBABLE PROPOSED
BOOSTER PUMP LOCATIONS

PT.	LATITUDE	LONGITUDE
1	29° 42' 04.01" N	89° 59' 00.12" W
2	29° 39' 58.03" N	89° 59' 11.71" W
3	29° 39' 29.57" N	90° 00' 33.79" W
4	29° 38' 05.92" N	90° 02' 53.14" W

ACCESS CHANNEL ALIGNMENT

PT.	LATITUDE	LONGITUDE	PT.	LATITUDE	LONGITUDE
1	29° 38' 33.79" N	90° 05' 43.76" W	46	29° 37' 53.05" N	90° 03' 12.51" W
2	29° 38' 36.11" N	90° 05' 39.23" W	47	29° 37' 53.63" N	90° 03' 10.48" W
3	29° 38' 35.26" N	90° 05' 38.05" W	48	29° 37' 54.31" N	90° 03' 09.40" W
4	29° 38' 33.34" N	90° 05' 37.43" W	49	29° 37' 56.11" N	90° 03' 08.75" W
5	29° 38' 33.08" N	90° 05' 35.59" W	50	29° 37' 57.50" N	90° 03' 08.22" W
6	29° 38' 32.07" N	90° 05' 34.21" W	51	29° 37' 59.11" N	90° 03' 06.86" W
7	29° 38' 30.85" N	90° 05' 31.02" W	52	29° 38' 00.30" N	90° 03' 05.45" W
8	29° 38' 30.78" N	90° 05' 28.75" W	53	29° 38' 00.92" N	90° 03' 04.47" W
9	29° 38' 28.67" N	90° 05' 22.82" W	54	29° 38' 02.81" N	90° 03' 02.54" W
10	29° 38' 28.43" N	90° 05' 18.94" W	55	29° 38' 04.04" N	90° 03' 01.49" W
11	29° 38' 30.26" N	90° 05' 16.81" W	56	29° 38' 04.97" N	90° 03' 00.88" W
12	29° 38' 33.49" N	90° 05' 15.41" W	57	29° 38' 06.05" N	90° 02' 59.77" W
13	29° 38' 34.70" N	90° 05' 13.23" W	58	29° 38' 06.50" N	90° 02' 58.86" W
14	29° 38' 35.21" N	90° 05' 06.01" W	59	29° 38' 06.70" N	90° 02' 57.71" W
15	29° 38' 34.77" N	90° 05' 00.40" W	60	29° 38' 06.81" N	90° 02' 56.01" W
16	29° 38' 33.52" N	90° 04' 55.13" W	61	29° 38' 05.55" N	90° 02' 51.89" W
17	29° 38' 31.55" N	90° 04' 49.78" W			
18	29° 38' 24.42" N	90° 04' 38.98" W			
19	29° 38' 22.33" N	90° 04' 37.22" W			
20	29° 38' 17.09" N	90° 04' 33.99" W			
21	29° 38' 16.07" N	90° 04' 29.78" W			
22	29° 38' 14.53" N	90° 04' 28.39" W			
23	29° 38' 12.55" N	90° 04' 25.78" W			
24	29° 38' 11.96" N	90° 04' 20.94" W			
25	29° 38' 11.26" N	90° 04' 18.04" W			
26	29° 38' 10.59" N	90° 04' 14.17" W			
27	29° 38' 08.55" N	90° 04' 11.61" W			
28	29° 38' 07.56" N	90° 04' 11.11" W			
29	29° 38' 05.95" N	90° 04' 09.47" W			
30	29° 38' 04.23" N	90° 03' 57.32" W			
31	29° 38' 01.33" N	90° 03' 53.74" W			
32	29° 37' 59.26" N	90° 03' 50.99" W			
33	29° 37' 58.56" N	90° 03' 48.16" W			
34	29° 37' 58.67" N	90° 03' 45.24" W			
35	29° 37' 59.61" N	90° 03' 42.71" W			
36	29° 37' 59.91" N	90° 03' 39.88" W			
37	29° 37' 58.56" N	90° 03' 38.16" W			
38	29° 37' 56.92" N	90° 03' 36.90" W			
39	29° 37' 56.06" N	90° 03' 36.03" W			
40	29° 37' 55.53" N	90° 03' 35.00" W			
41	29° 37' 53.79" N	90° 03' 29.95" W			
42	29° 37' 52.82" N	90° 03' 23.74" W			
43	29° 37' 52.82" N	90° 03' 20.42" W			
44	29° 37' 52.63" N	90° 03' 15.34" W			
45	29° 37' 52.78" N	90° 03' 15.34" W			

BY	DESCRIPTION	DATE
SA	REVISION 3	03/09/12
SA	CDM COMMENT RESPONSE	11/18/11
SA	REVISION 1	10/21/11
DRAWN BY: YC		DESIGNED BY: SA



MOFFATT & NICHOL
ONE AMERICAN PLACE
301 MAIN STREET, SUITE 800
BATON ROUGE, LA 70825
225-527-1753

APPROVED BY: MAURY CHATELLIER, P.E.

**COASTAL PROTECTION & RESTORATION
AUTHORITY**

450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

MISSISSIPPI RIVER
LONG DISTANCE SEDIMENT PIPELINE

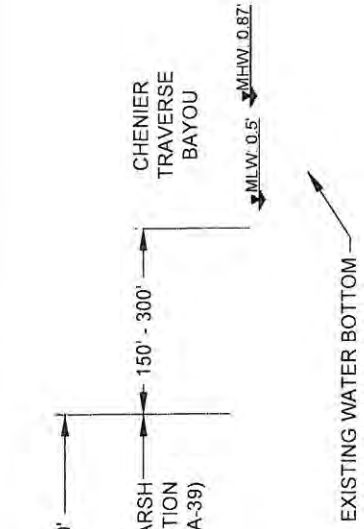
RO ECT
ALIGNMENT
TABLE

STATE PROJECT NUMBER: BA-43 (EB)

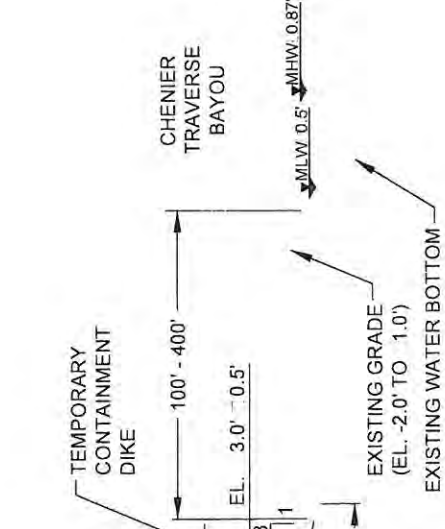
FEDERAL PROJECT NUMBER: N/A

DATE: MARCH 9, 2012

SHEET 17 OF 41

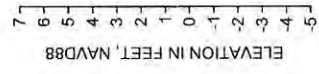
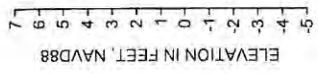


1 TYPICAL REACH 1 SECTION (ACROSS BA-39 PROJECT AREA)
 (STA. 232 12.07 TO STA. 349 28.02)

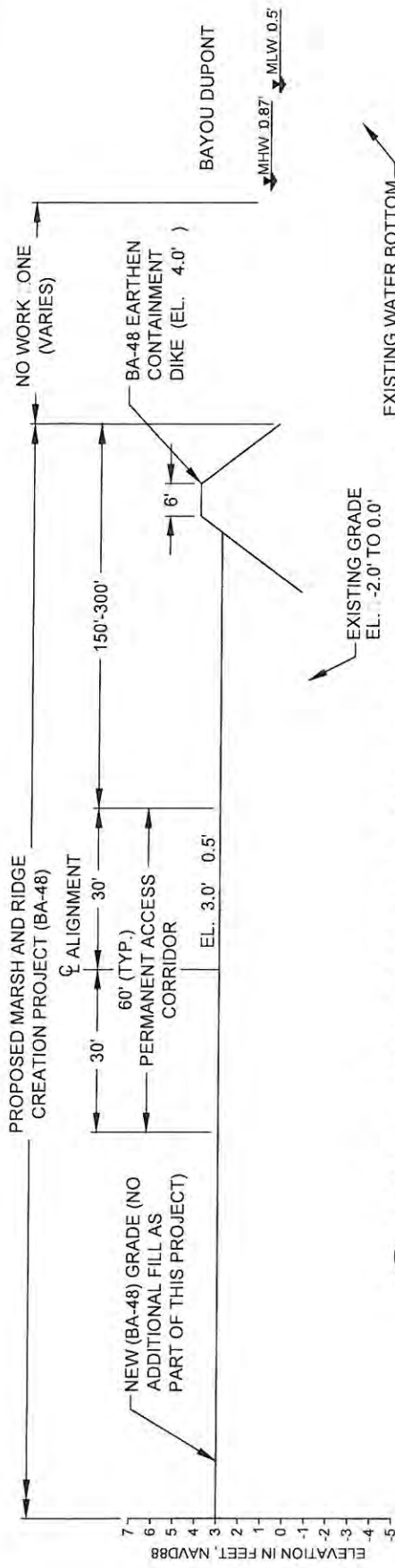


2 TYPICAL REACH 2 SECTION (BETWEEN BA-39 & BAYOU DUPONT)
 (STA. 349 28.02 TO STA. 388 06.42)

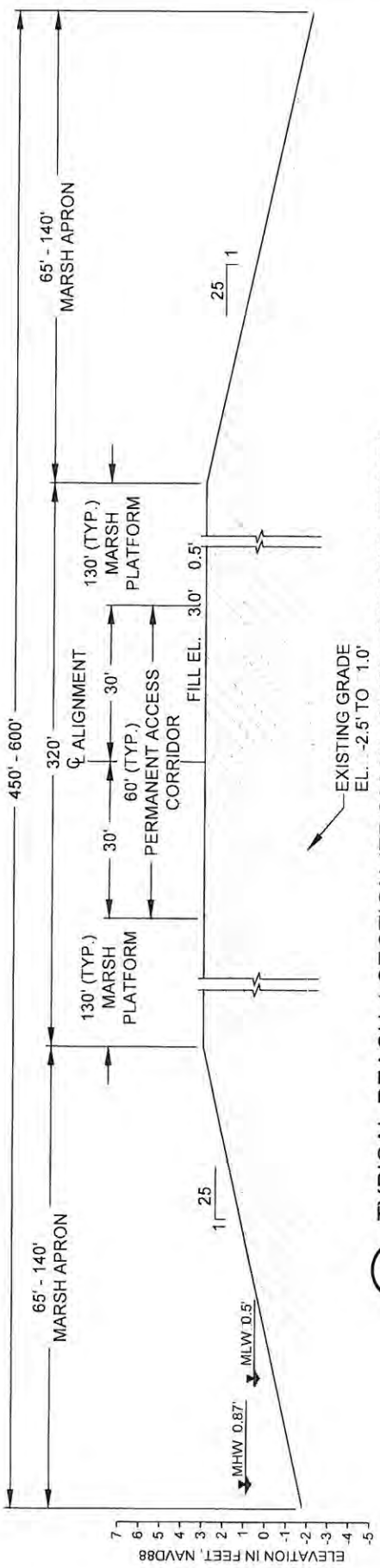
NOTE:
 EXISTING GROUND ELEVATIONS BASED ON TOPOGRAPHIC
 SURVEYS PERFORMED FROM JULY 26 THROUGH OCTOBER 10,
 2011 BY T. BAKER SMITH, LLC.



BY: DESCRIPTION		DATE		COASTAL PROTECTION & RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE	TYPEICAL SHEET SECTION SHEET 18 OF 41
SA	REVISION 3	03/09/12				
SA	COM COMMENT RESPONSE	11/18/11				
SA	REVISION 1	10/21/11				
DRAWN BY: YC			DESIGNED BY: SA	APPROVED BY: MAURY CHATELIER, P.E.	STATE PROJECT NUMBER: BA-43 (EB)	DATE: MARCH 9, 2012
					FEDERAL PROJECT NUMBER: N/A	SHEET 18 OF 41

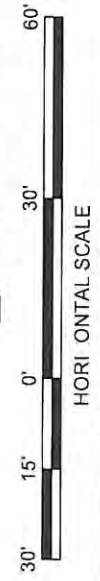


3 TYPICAL REACH 3 SECTION (ACROSS PROPOSED BA-48 PROJECT AREA)
 (STA. 392.97.96 TO STA. 410.90.02)

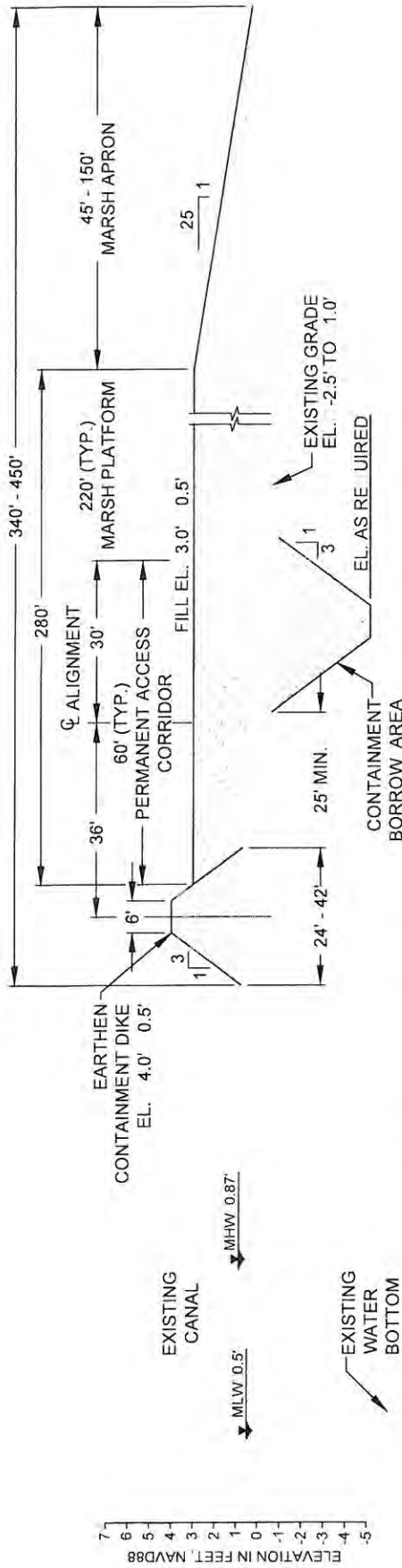


4 TYPICAL REACH 4 SECTION (FROM BA-48 TO THE FISH CAMP)
 (STA. 410.90.02 TO STA. 468.07.70)

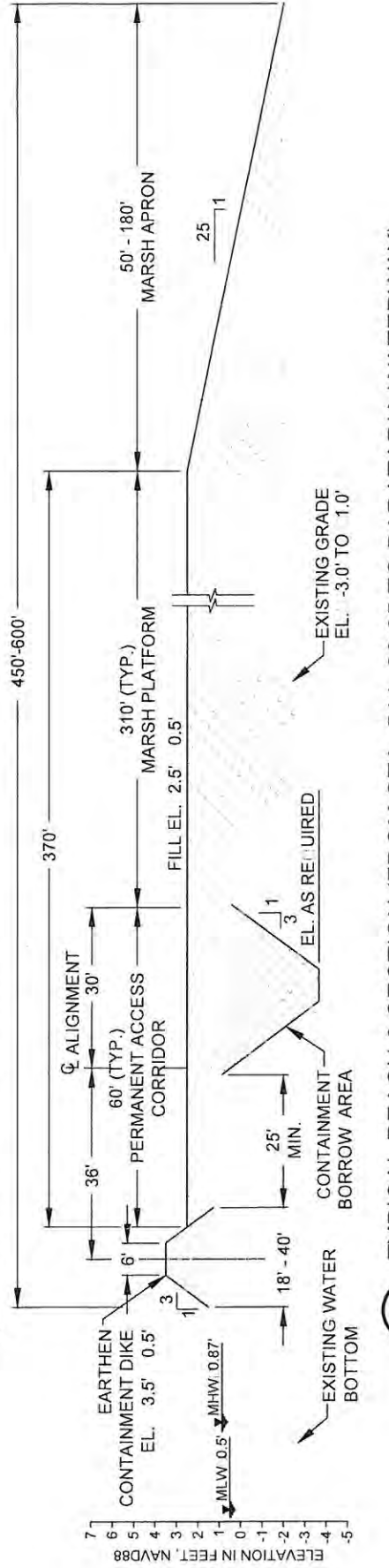
NOTE:
 EXISTING GROUND ELEVATIONS BASED ON TOPOGRAPHIC SURVEYS
 PERFORMED FROM JULY 26 THROUGH OCTOBER 10, 2011 BY T. BAKER
 SMITH, LLC.



BY	DESCRIPTION	DATE		COASTAL PROTECTION & RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE	FEDERAL PROJECT NUMBER: N/A
SA	REVISION 3	03/09/12				
SA	CDM COMMENT RESPONSE	11/18/11				
SA	REVISION 1	10/21/11				
DRAWN BY: YC			DESIGNED BY: SA	APPROVED BY: MAURY CHATELIER, P.E.	STATE PROJECT NUMBER: BA-43 (EB)	FEDERAL PROJECT NUMBER: N/A
					DATE: MARCH 9, 2012	SHEET 19 OF 41




5 TYPICAL REACH 5 SECTION (FROM THE FISH CAMP TO STA. 511 83.65)
 (STA. 468 07.70 TO STA. 511 83.65)

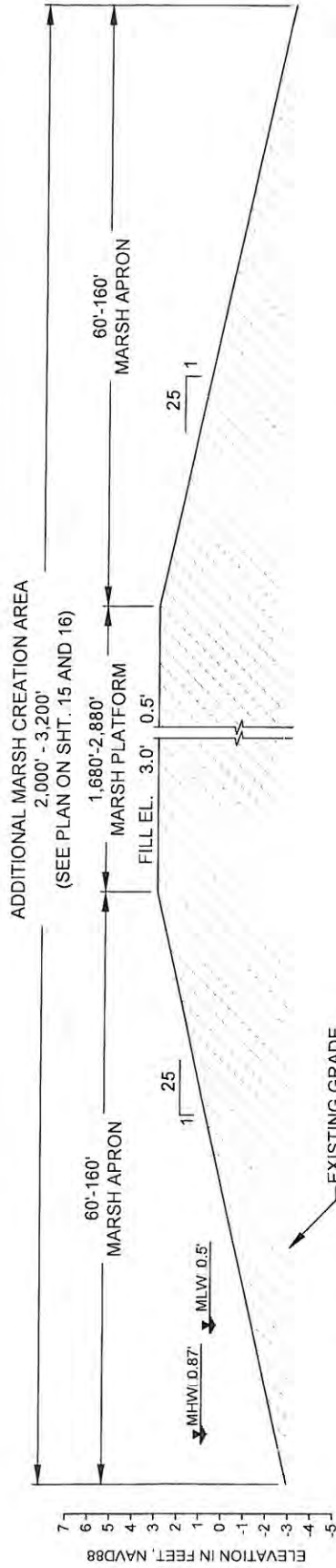


6 TYPICAL REACH 6 SECTION (FROM STA. 511 83.65 TO BARATARIA WATERWAY)
 (STA. 511 83.65 TO STA. 570 22.0)

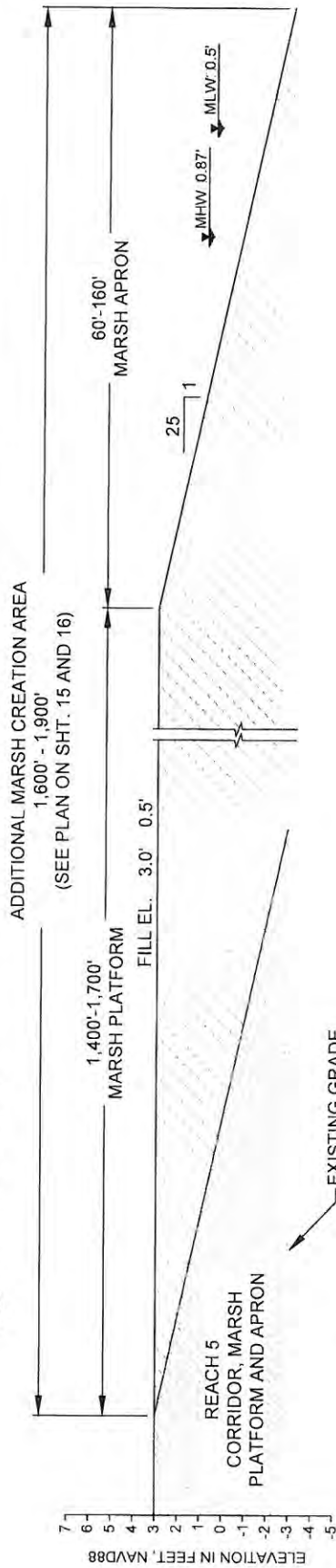
NOTE:
 EXISTING GROUND ELEVATIONS BASED ON
 TOPOGRAPHIC SURVEYS PERFORMED FROM JULY 26
 THROUGH OCTOBER 10, 2011 BY T. BAKER SMITH, LLC.



BY	DESCRIPTION	DATE	 ONE AMERICAN PLACE 301 MAIN STREET, SUITE 600 BATON ROUGE, LOUISIANA 70825 225-927-7755	COASTAL PROTECTION & RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE	TYPICAL FULL SECTION SHEET 20 OF 41	
	SA	REVISION 3					03/09/12
	SA	COM COMMENT RESPONSE					11/19/11
	SA	REVISION 1					10/21/11
DRAWN BY: YC			APPROVED BY: MAURY CHATELLIER, P.E.	FEDERAL PROJECT NUMBER: N/A	SHEET 20 OF 41		
			STATE PROJECT NUMBER: BA-43 (EB)	DATE: MARCH 9, 2012			




7
15
TYPICAL FILL SECTION ACROSS ADDITIONAL MARSH CREATION AREA
(SOUTH TO NORTH)

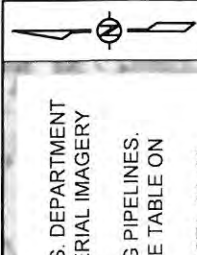


8
15
TYPICAL FILL SECTION ACROSS ADDITIONAL MARSH CREATION AREA
(WEST TO EAST)

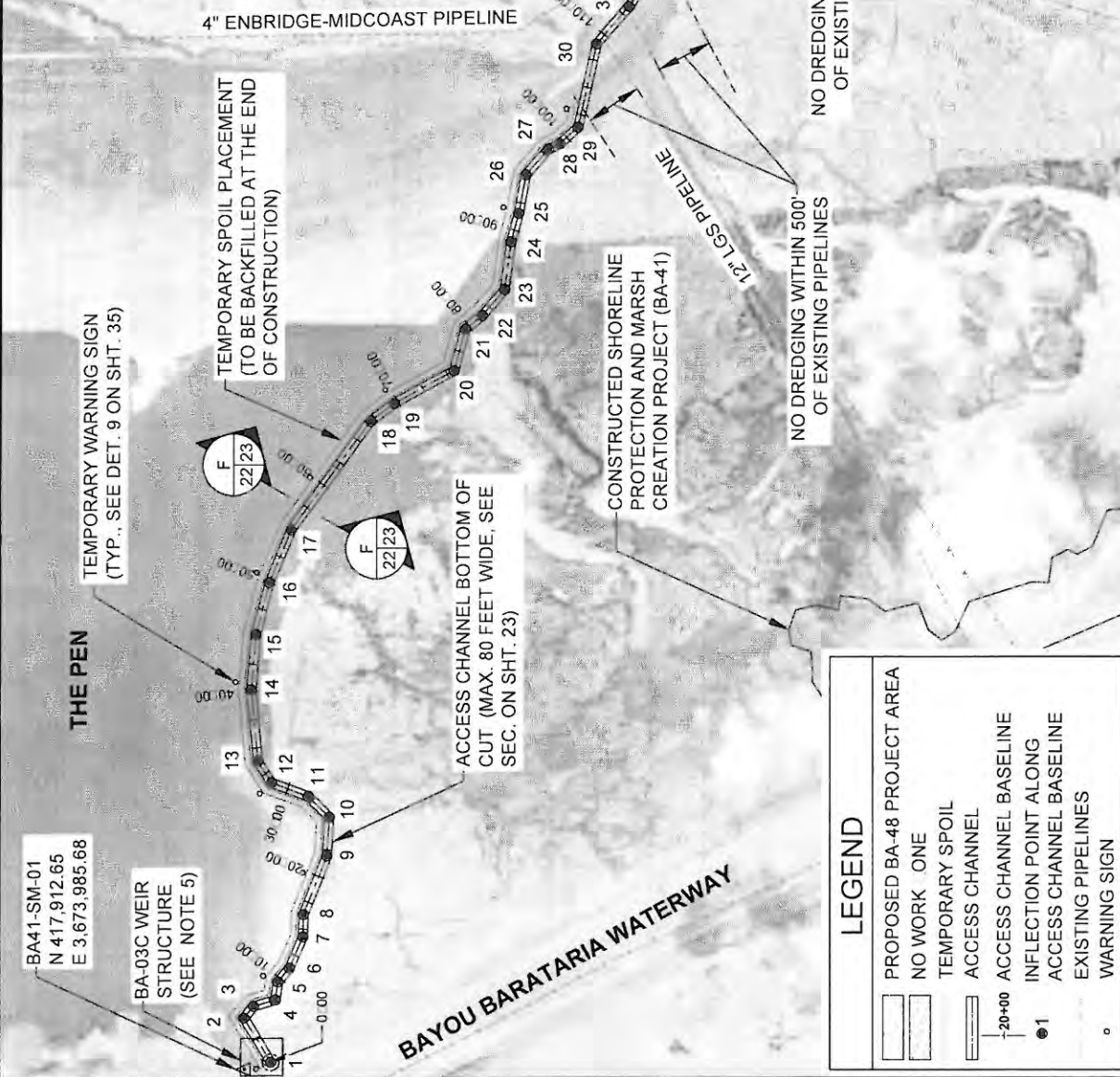


NOTE:
EXISTING GROUND ELEVATIONS BASED ON
TOPOGRAPHIC SURVEYS PERFORMED FROM JULY 26
THROUGH OCTOBER 10, 2011 BY T. BAKER SMITH, LLC.

BY	DESCRIPTION	DATE	COASTAL PROTECTION & RESTORATION AUTHORITY		MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE		TYPEICAL SECTION SHEET 0
SA	REVISION 3	03/09/12	 ONE AMERICAN PLACE 301 MAIN STREET, SUITE 600 BATON ROUGE, LA 70825 225-927-7793 MOFFATT & NICHOL		STATE PROJECT NUMBER: BA-43 (EB)		DATE: MARCH 9, 2012
SA	CDM COMMENT RESPONSE	1/18/11			FEDERAL PROJECT NUMBER: N/A		SHEET 21 OF 41
SA	REVISION 1	10/21/11			APPROVED BY: MAURY CHATELLIER, P.E.		
DRAWN BY: YC			DESIGNED BY: SA		APPROVED BY: MAURY CHATELLIER, P.E.		



- NOTES:**
- BACKGROUND AERIAL IMAGE FROM U.S. DEPARTMENT OF AGRICULTURE (USDA) NATIONAL AERIAL IMAGERY PROGRAM (NAIP), OCTOBER 2010
 - NO DREDGING WITHIN 500' OF EXISTING PIPELINES.
 - FOR ACCESS CHANNEL ALIGNMENT SEE TABLE ON SHEET 17.
 - ACCESS CHANNEL FROM STA. 0+00 TO STA. 61+89 CURRENTLY OPEN AS PART OF BA-41 CONSTRUCTION. CHANNEL FROM STA. 61+89 TO STA. 181+53 LIKELY TO BE DREDGED AS PART OF BA-48 CONSTRUCTION. LDSP WOULD BACKFILL.
 - BA-03C WEIR STRUCTURE PARTIALLY REMOVED AS PART OF BA-41 CONSTRUCTION TO ALLOW ACCESS. LDSP WILL RECONSTRUCT TO ORIGINAL DESIGN.



BA41-SM-01
N 417,912.65
E 3,673,985.68

BA-03C WEIR
STRUCTURE
(SEE NOTE 5)

TEMPORARY WARNING SIGN
(TYP., SEE DET. 9 ON SHT. 35)

TEMPORARY SPOIL PLACEMENT
(TO BE BACKFILLED AT THE END
OF CONSTRUCTION)

ACCESS CHANNEL BOTTOM OF
CUT (MAX. 80 FEET WIDE, SEE
SEC. ON SHT. 23)

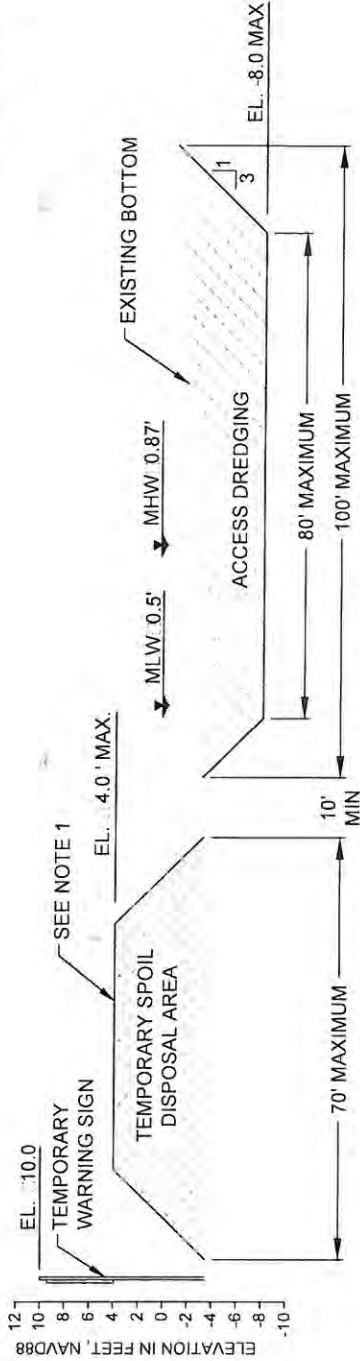
CONSTRUCTED SHORELINE
PROTECTION AND MARSH
CREATION PROJECT (BA-41)

LEGEND

- PROPOSED BA-48 PROJECT AREA
- NO WORK ONE
- TEMPORARY SPOIL
- ACCESS CHANNEL
- ACCESS CHANNEL BASELINE
- INFLECTION POINT ALONG ACCESS CHANNEL BASELINE
- EXISTING PIPELINES
- WARNING SIGN

BY	DESCRIPTION	DATE	 ONE AMERICAN PLACE 907 MAIN STREET SUITE 600 BATON ROUGE, LA 70825 225-927-7755	COASTAL PROTECTION & RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE	ACCEPT CHANNEL LAYOUT
SA	REVISION 3	03/09/12				
SA	CDM COMMENT RESPONSE	11/18/11				
SA	REVISION 1	10/21/11				
DRAWN BY: YC		DESIGNED BY: SA		APPROVED BY: MAURY CHATELIER, P.E.		FEDERAL PROJECT NUMBER: N/A
						STATE PROJECT NUMBER: BA-43 (EB)
						DATE: MARCH 9, 2012
						SHEET 22 OF 41

THE PEN

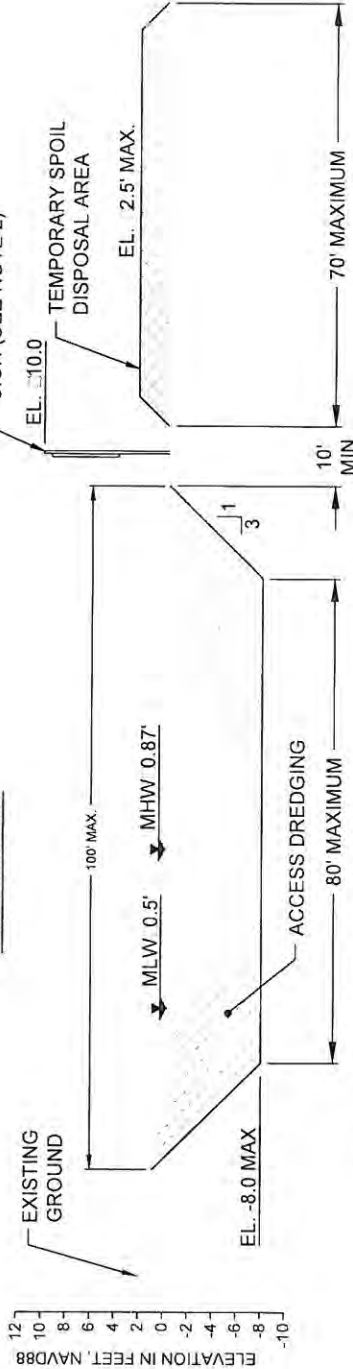


F TYPICAL ACCESS CHANNEL SECTION **THE PEN**

NOTES:

1. MATERIAL EXCAVATED TO CONSTRUCT THE ACCESS CHANNEL SHALL BE PLACED ON THE LAKE SIDE AND PULLED BACK INTO THE ACCESS CHANNEL PRIOR TO FINAL INSPECTION.
2. TEMPORARY WARNING SIGNS SHALL BE PLACED AT A MAXIMUM SPACING OF 500 FT ALONG ALL TEMPORARY SPOIL DISPOSAL AREAS.
3. ACCESS CHANNEL FROM STA. 0.00 TO STA. 61.89 CURRENTLY OPEN AS PART OF BA-41 CONSTRUCTION. CHANNEL FROM STA. 61.89 TO STA. 181.53 LIKELY TO BE DREDGED AS PART OF BA-48 CONSTRUCTION. LDSP WOULD BACKFILL.

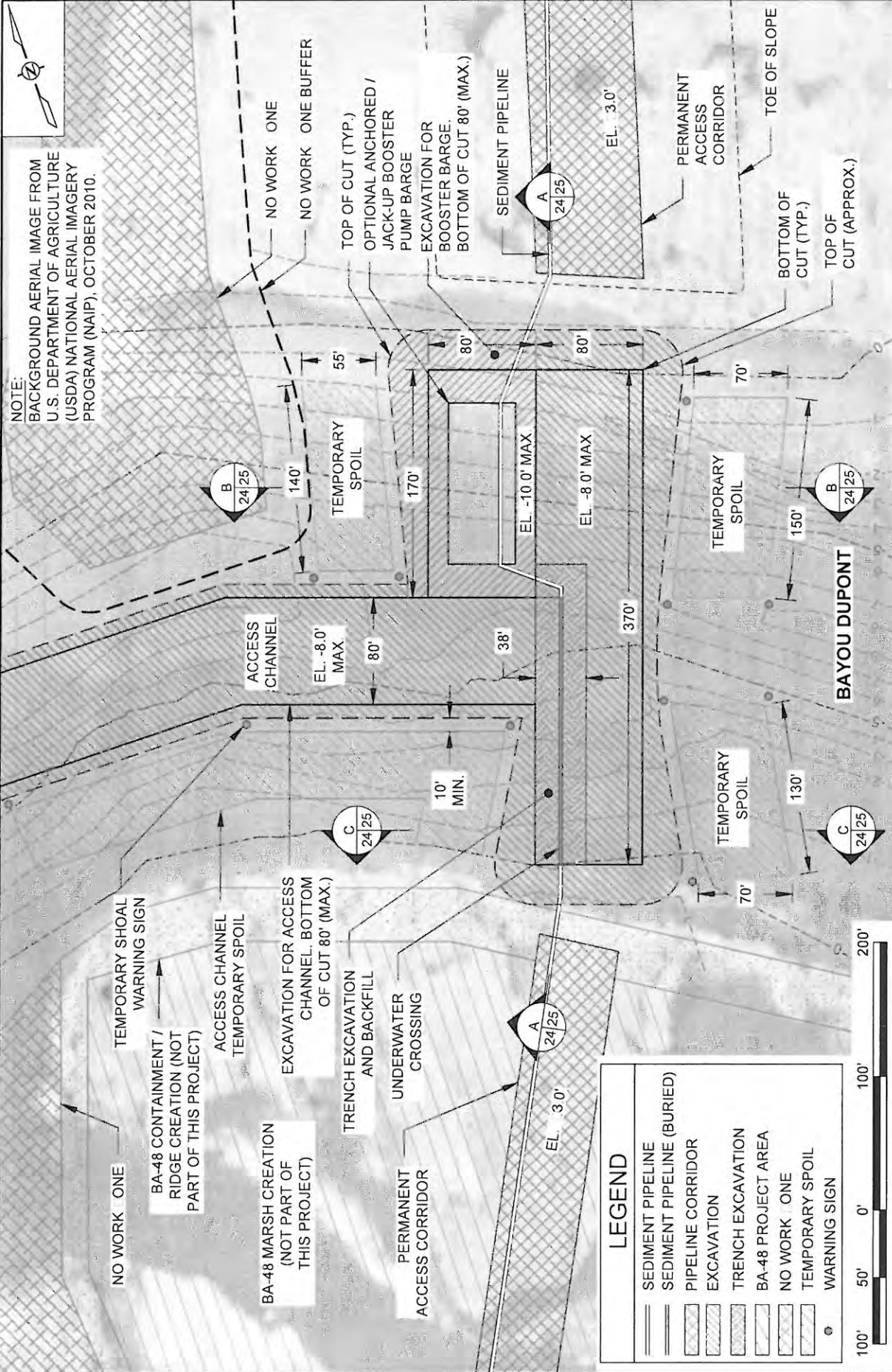
BAYOU DUPONT



F1 TYPICAL ACCESS CHANNEL SECTION **BAYOU DUPONT**



BY	DESCRIPTION	DATE	DESIGNED BY: SA		APPROVED BY: MAURY CHATELLIER, P.E.	
SA	REVISION 3	03/09/12	ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70825 225-927-7793		COASTAL PROTECTION & RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA, 70801	
SA	CDM COMMENT RESPONSE	11/18/11	MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE		STATE PROJECT NUMBER: BA-43 (EB)	
SA	REVISION 1	10/21/11	FEDERAL PROJECT NUMBER: N/A		DATE: MARCH 9, 2012	
DRAWN BY: YC			SHEET 23 OF 41		PROJECT TITLE: ACCESSION CHANNEL SECTION	

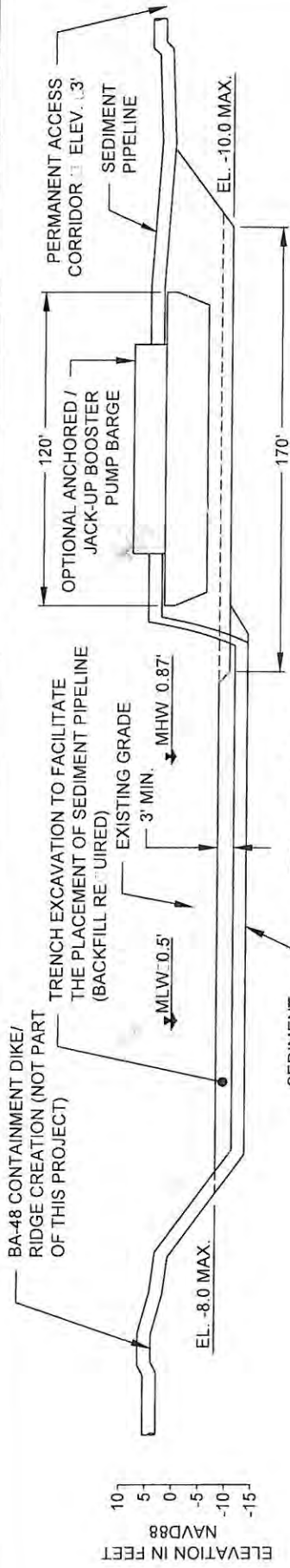


NOTE:
 BACKGROUND AERIAL IMAGE FROM
 U.S. DEPARTMENT OF AGRICULTURE
 (USDA) NATIONAL AERIAL IMAGERY
 PROGRAM (NAIP), OCTOBER 2010.

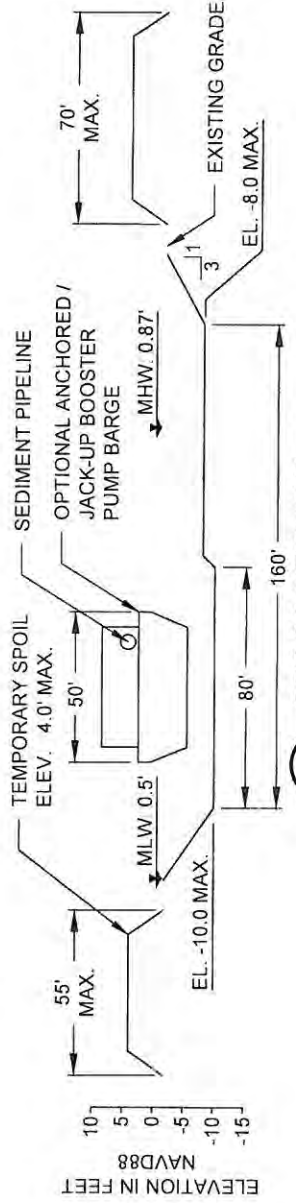
LEGEND	
[Symbol]	SEDIMENT PIPELINE
[Symbol]	SEDIMENT PIPELINE (BURIED)
[Symbol]	PIPELINE CORRIDOR
[Symbol]	EXCAVATION
[Symbol]	TRENCH EXCAVATION
[Symbol]	BA-48 PROJECT AREA
[Symbol]	NO WORK ONE BUFFER
[Symbol]	TEMPORARY SPOIL
[Symbol]	WARNING SIGN



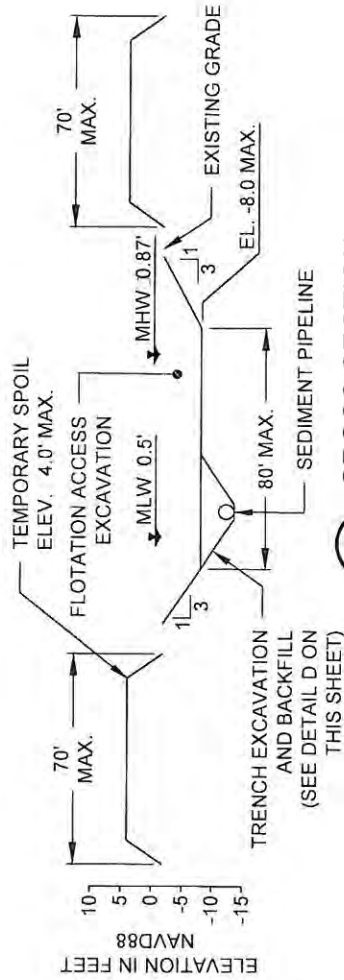
BY: SA		DATE: 03/09/12		MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE	BAYOU DU PONT CROSSLING DETAIL
SA		CDM COMMENT RESPONSE			
SA		11/18/11		STATE PROJECT NUMBER: BA-43 (EB)	DATE: MARCH 9, 2012
SA		10/21/11		FEDERAL PROJECT NUMBER: N/A	SHEET 24 OF 38
DESIGNED BY: SA				APPROVED BY: MAURY CHATELIER, P.E.	
COASTAL PROTECTION & RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801				MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE	



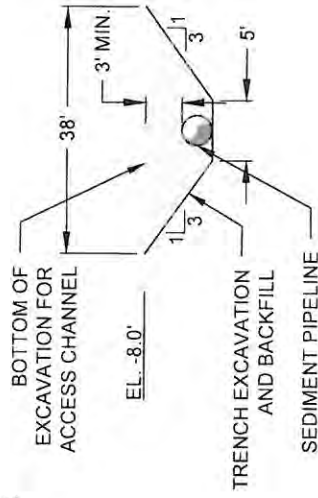
A PROFILE
24



B CROSS SECTION
24




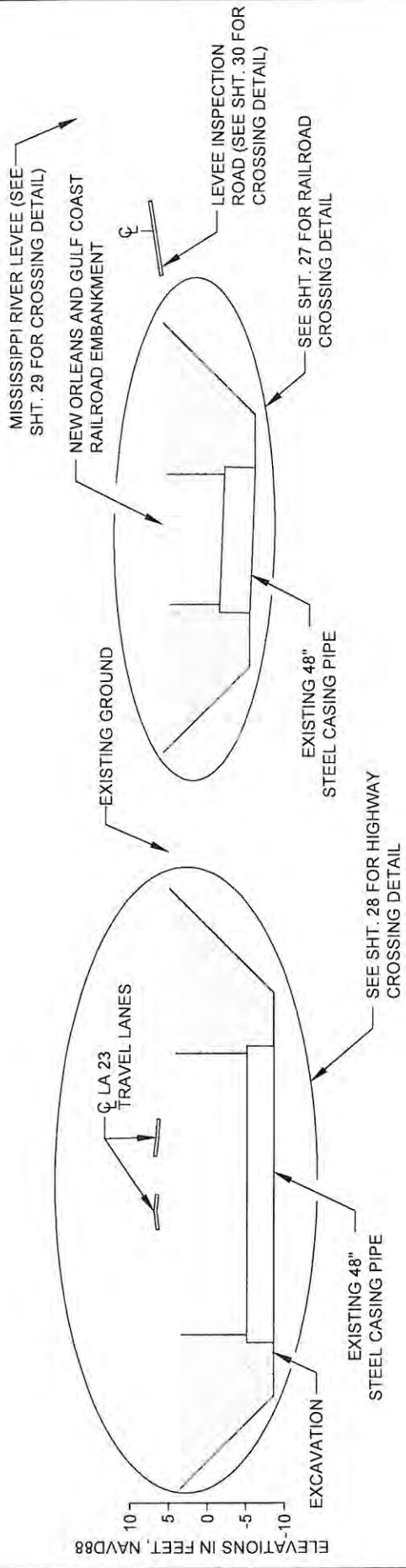
C CROSS SECTION
24



D TRENCH DETAIL
25



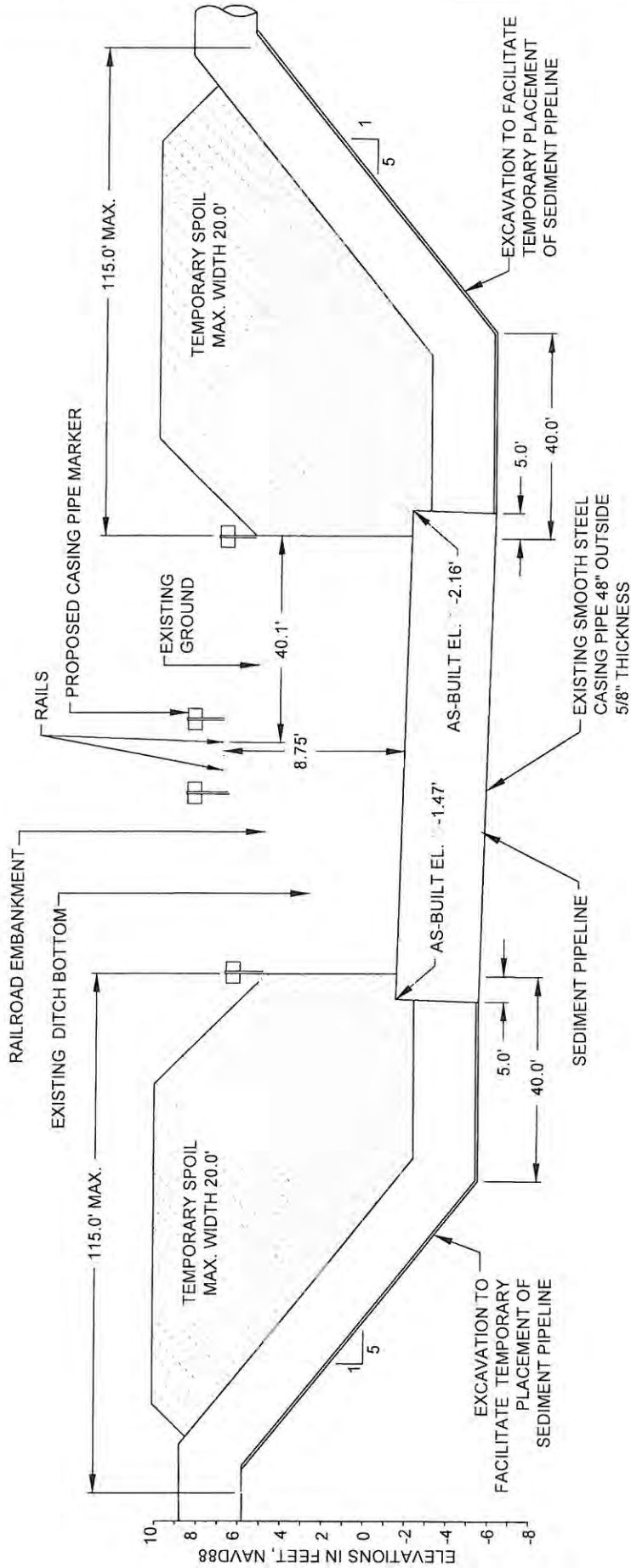
BY	DESCRIPTION	DATE	COASTAL PROTECTION & RESTORATION AUTHORITY		MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE	BAYOU L'OUENT BOUYERUMITE TYPEICAL DETAIL
SA	REVISION 3	03/09/12	 ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70825 225-427-7733 MOFFATT & NICHOLS		STATE PROJECT NUMBER BA-43 (EB)	DATE: MARCH 9, 2012
SA	CDM COMMENT RESPONSE	1/17/8/11				
SA	REVISION 1	10/2/1/11				
DRAWN BY: YC			APPROVED BY: MAURY CHATELIER, P.E.	450 LAUREL STREET BATON ROUGE, LOUISIANA, 70801	FEDERAL PROJECT NUMBER N/A	SHEET 25 OF 41



G-G DREDGE PIPELINE CORRIDOR SECTION



BY	DESCRIPTION	DATE	COASTAL PROTECTION & RESTORATION AUTHORITY		MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE		REGULATORY CORRIDOR SECTION
SA	REVISION 3	03/09/12	450 LAUREL STREET BATON ROUGE, LOUISIANA 70801		STATE PROJECT NUMBER: BA-43 (EB)		DATE: MARCH 9, 2012
SA	CDM COMMENT RESPONSE	11/18/11	MOFFATT & NICHOL ONE AMERICAN PLACE 301 MAIN STREET, SUITE 600 BATON ROUGE, LA 70825 225-927-7793		FEDERAL PROJECT NUMBER: N/A		SHEET 26 OF 41
SA	REVISION 1	10/21/11	APPROVED BY: MAURY CHATELIER, P.E.		DESIGNED BY: SA		
DRAWN BY: YC							



1
16


RAILROAD CROSSING DETAIL

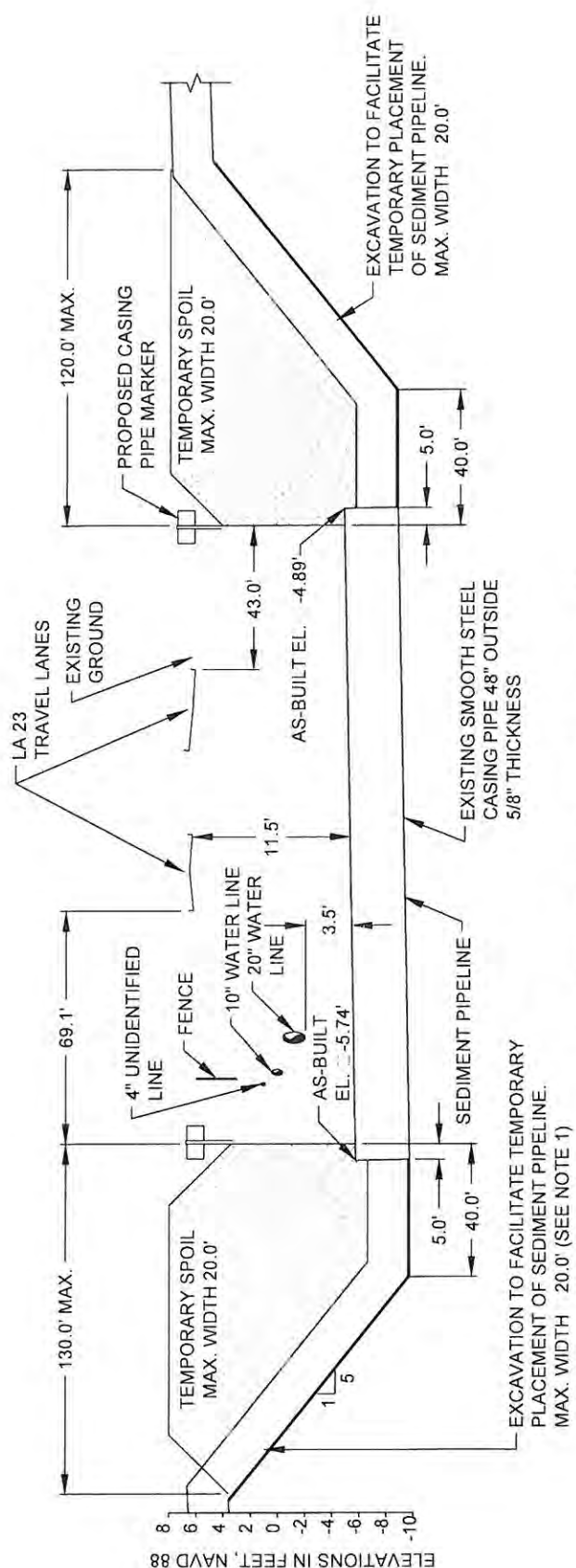
NOTES:

1. TEMPORARY SPOIL SHALL BE PLACED ADJACENT THE EXCAVATION ON BOTH SIDES.
2. THE TEMPORARY SPOIL SHALL BE BACKFILLED INTO EXCAVATION AFTER COMPLETION OF CONSTRUCTION.



LEGEND	
	TEMPORARY SPOIL
	EXCAVATION
	EXISTING GROUND

BY	DESCRIPTION	DATE	DESIGNED BY: S ⁴	DRAWN BY: YC
SA	REVISION 3	03/08/12	 ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70825 225-927-7751	APPROVED BY: MAURY CHATELLIER, P E
SA	CDM COMMENT RESPONSE	11/18/11		
SA	REVISION 1	10/21/11		
			COASTAL PROTECTION & RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE
			RAILROAD CROSSING DETAIL	STATE PROJECT NUMBER: BA-43 (EB) FEDERAL PROJECT NUMBER: N/A
			DATE: MARCH 9, 2012	SHEET 27 OF 41



2 HIGHWAY CROSSING DETAIL
16

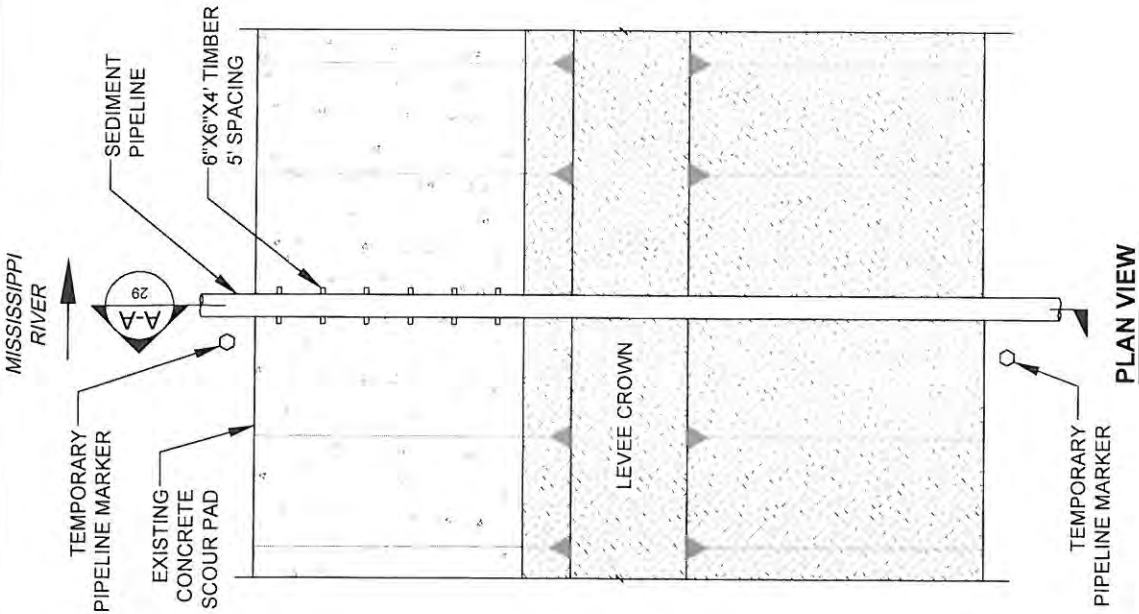
NOTES:

1. TEMPORARY SPOIL SHALL BE PLACED ADJACENT THE EXCAVATION ON BOTH SIDES.
2. THE TEMPORARY SPOIL SHALL BE BACKFILLED INTO EXCAVATION AFTER COMPLETION OF CONSTRUCTION.

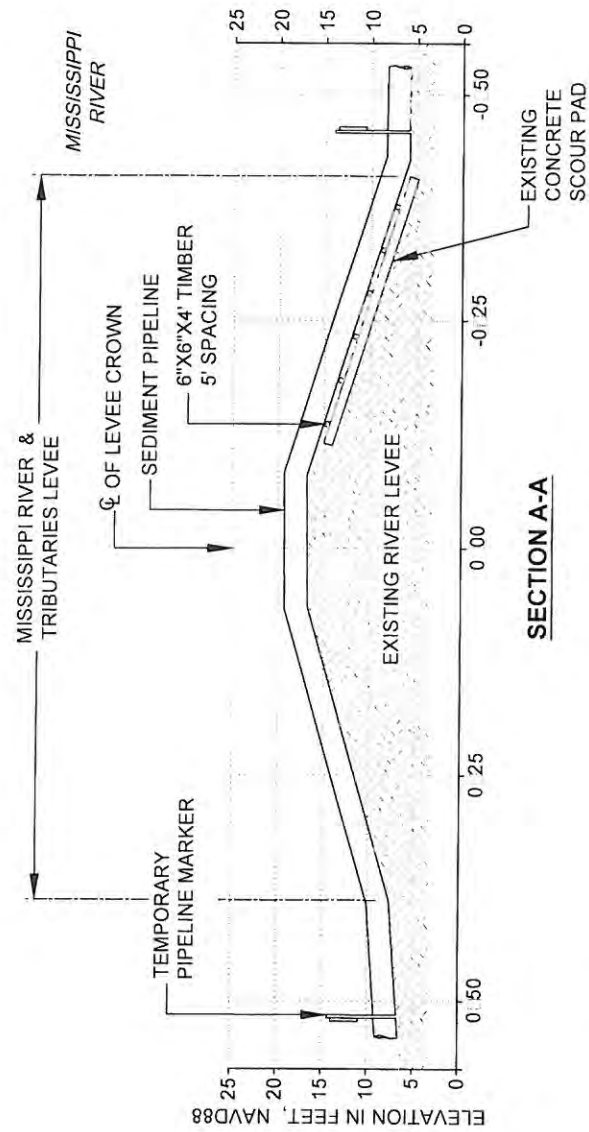
LEGEND	
	TEMPORARY SPOIL
	EXCAVATION
	EXISTING GROUND



BY	DESCRIPTION	DATE	 ONE AMERICAN PLACE 300 N. STATE STREET BATON ROUGE, LA 70802 225-927-7763	COASTAL PROTECTION & RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE	HIGHWAY CROSSING DETAIL
SA	REVISION 3	03/09/12				
SA	CDM COMMENT RESPONSE	11/18/11				
SA	REVISION 1	10/21/11				
DRAWN BY: YC		DESIGNED BY: SA		APPROVED BY: MAURY CHATELIER, P. E.		FEDERAL PROJECT NUMBER: N/A
				STATE PROJECT NUMBER: BA-43 (EB)		DATE: MARCH 9, 2012
						SHEET 28 OF 41



PLAN VIEW



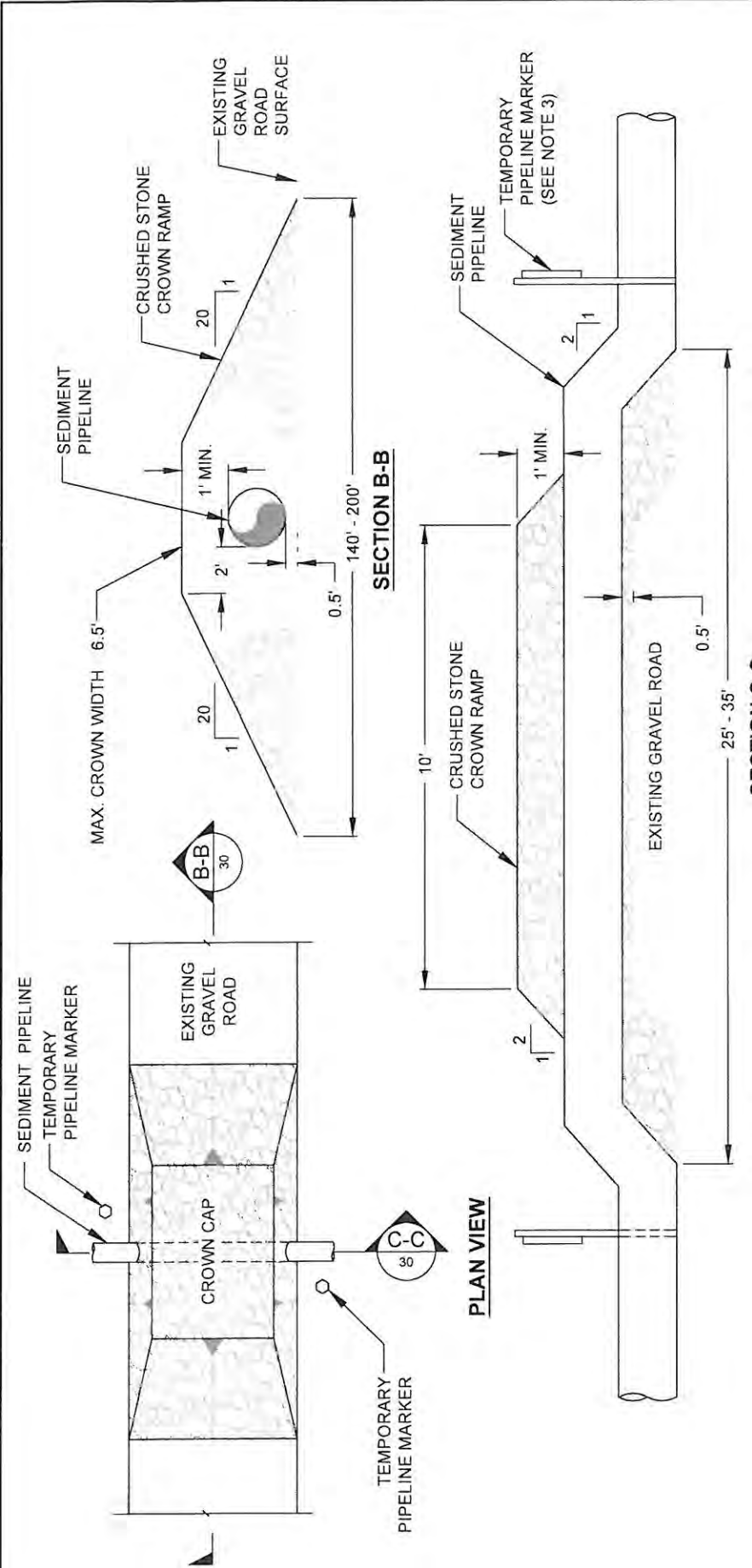
SECTION A-A

3 MISSISSIPPI RIVER LEVEE CROSSING DETAIL
SCALE: 1" = 20'

- NOTES:
1. TEMPORARY PIPELINE MARKERS INDICATING OWNER, CONTENTS, AND ADDRESS FOR CONTACTING OWNER SHALL BE PLACED AND MAINTAINED AT EACH TOE OF LEVEE NEAR SEDIMENT PIPELINE.
 2. EXISTING GRADE BASED ON JANUARY 2012 TBS SURVEY.



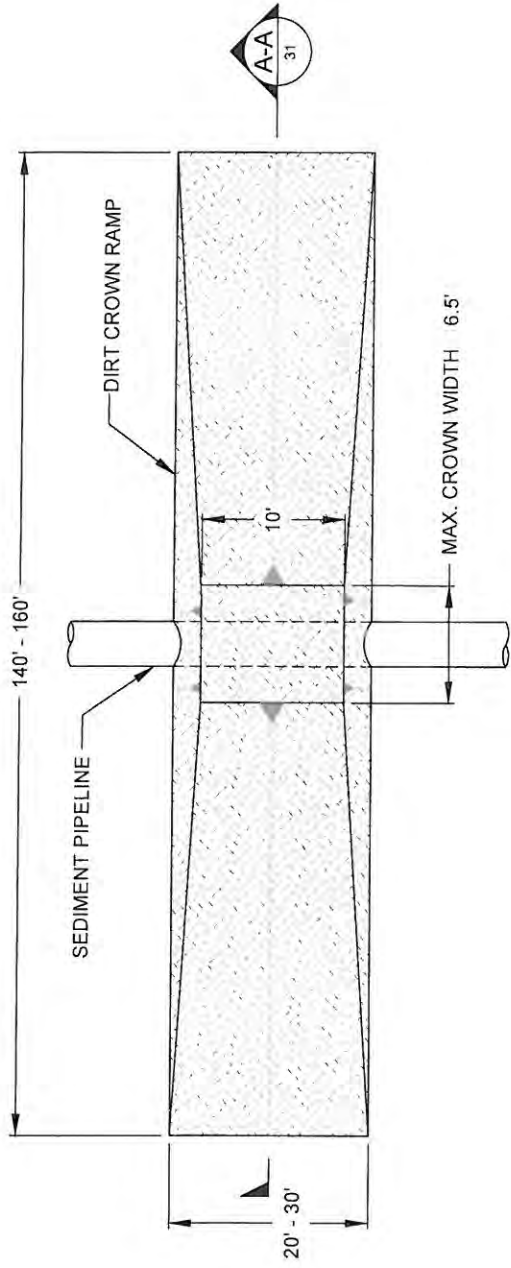
BY	DESCRIPTION	DATE		COASTAL PROTECTION & RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE	MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE
SA	REVISION 3	03/09/12				
SA	CDM COMMENT RESPONSE	11/18/11				
SA	REVISION 1	10/21/11				
DRAWN BY: YC			DESIGNED BY: SA	APPROVED BY: MAURY CHATELIER, P. E.	FEDERAL PROJECT NUMBER: N/A	SHEET 29 OF 41
					STATE PROJECT NUMBER: BA-43 (EB)	DATE: MARCH 9, 2012



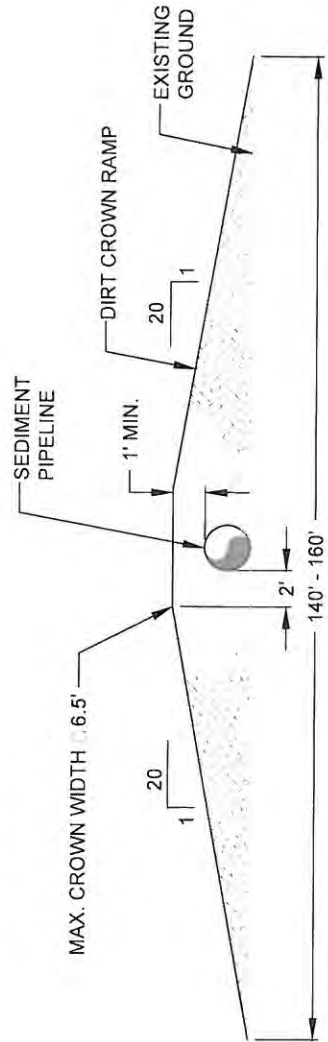
4
16
MISSISSIPPI RIVER LEVEE INSPECTION ROAD CROSSING DETAIL
NOT TO SCALE

- NOTES:**
1. MISSISSIPPI RIVER LEVEE INSPECTION ROAD IS AT THE LANDSIDE TOE OF THE MISSISSIPPI RIVER LEVEE.
 2. THE CROWN RAMP OVER THE PIPELINE CROSSINGS SHALL CONSIST OF CRUSHED STONE FOR FULL WIDTH AND LENGTH OF RAMP. THE CRUSH STONE MATERIAL SHALL CONFORM TO DOTD 5006 SPECIFICATION 1003.04 (a).
 3. TEMPORARY PIPELINE MARKERS INDICATING OWNER, CONTENTS, AND ADDRESS FOR CONTACTING OWNER SHALL BE PLACED AND MAINTAINED AT EACH TOE OF LEVEE NEAR SEDIMENT PIPELINE.

BY	DESCRIPTION	DATE	DESIGNED BY: SA	APPROVED BY: MAURY CHATELIER, P.E.
SA	REVISION 3	03/09/12	MOFFATT & NICBOL ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70825 225-927-7753	COASTAL PROTECTION & RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801
SA	CDM COMMENT RESPONSE	11/18/11		
SA	REVISION 1	10/21/11		
DRAWN BY: YC			MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE	STATE PROJECT NUMBER: BA-43 (EB)
			FEDERAL PROJECT NUMBER: N/A	DATE: MARCH 9, 2012
				SHEET 30 OF 41



PLAN VIEW




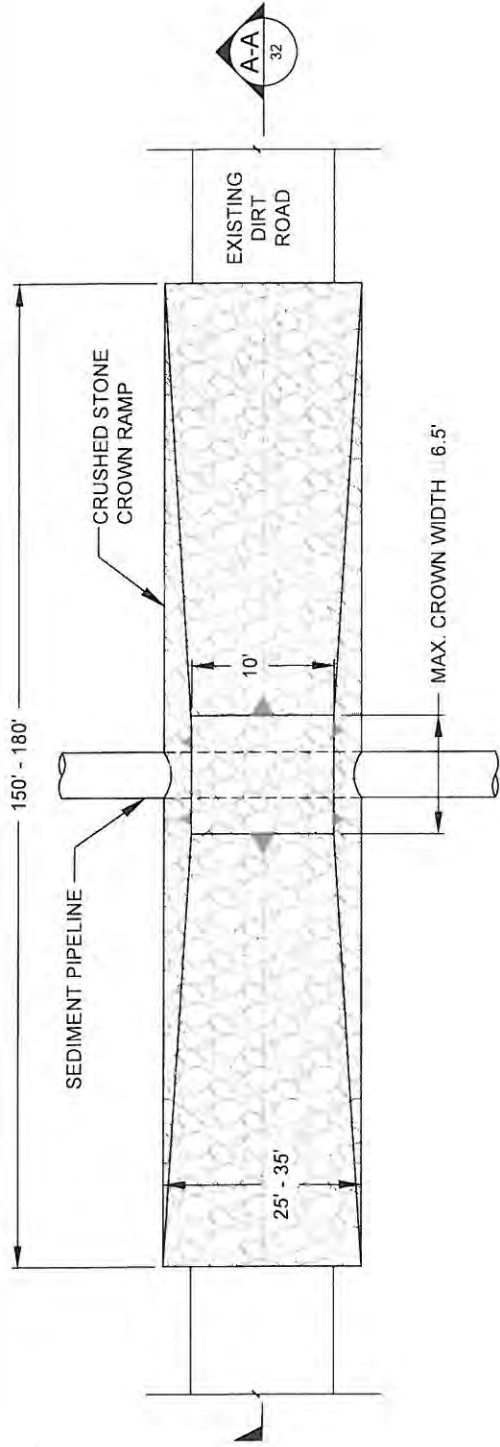
SECTION A-A

5
12

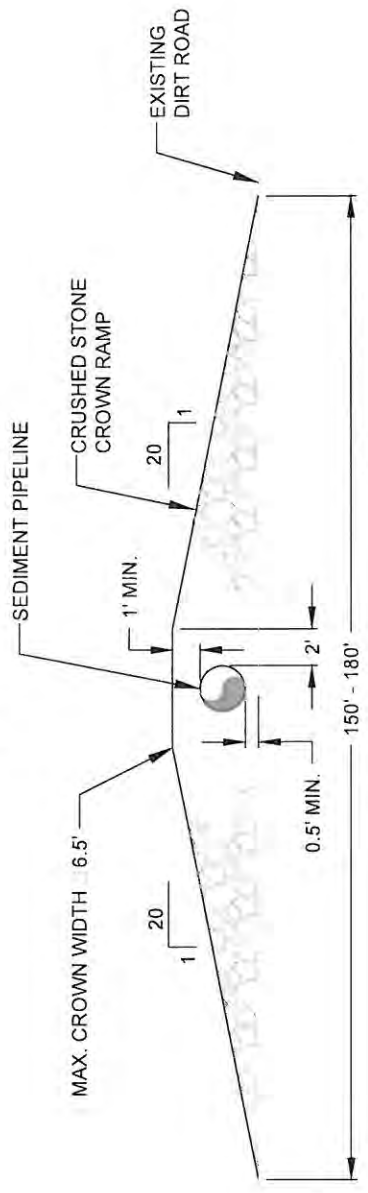
CATTLE CROSSING DETAIL

NOT TO SCALE

BY	DESCRIPTION	DATE	 <p>ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70825 225-527-7793</p>	<p>COASTAL PROTECTION & RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>	<p>MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE</p>	<p>CATTLE CROSSING DETAIL</p>
SA	REVISION 3	03/09/12				
SA	CDM COMMENT RESPONSE	11/18/11				
SA	REVISION 1	10/21/11				
DRAWN BY: YC			DESIGNED BY: SA	APPROVED BY: MAURY CHATELLIER, P.E.	STATE PROJECT NUMBER: BA-43 (EB)	DATE: MARCH 9, 2012
					FEDERAL PROJECT NUMBER: N/A	SHEET 31 OF 41



PLAN VIEW

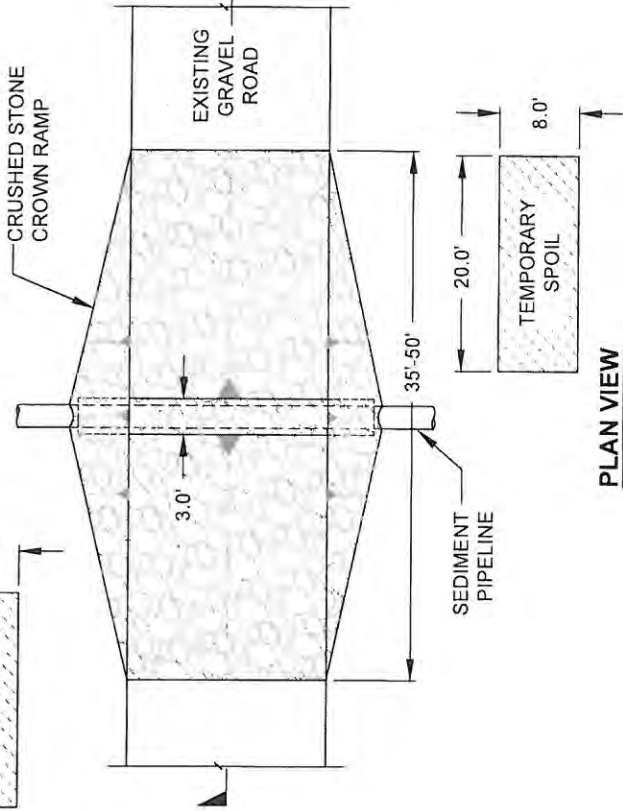
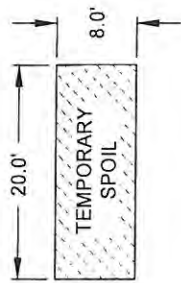


SECTION A-A

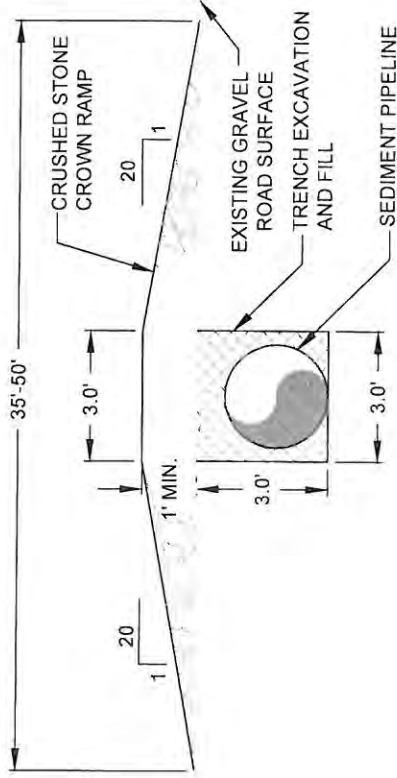
NOTE:
 THE CROWN RAMP OVER THE PIPELINE CROSSINGS SHALL CONSIST OF CRUSHED STONE FOR FULL WIDTH AND LENGTH OF RAMP. THE CRUSH STONE MATERIAL SHALL CONFORM TO DOTD 5006 SPECIFICATION 1003.04 (a).

6 DIRT ROAD CROSSING DETAIL
 12 NOT TO SCALE

BY	DESCRIPTION	DATE	 ONE AMERICAN PLACE 301 MAIN STREET, SUITE 600 BATON ROUGE, LA 70825 225-927-7773 MOFFATT & NICHOL	COASTAL PROTECTION & RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801 APPROVED BY: MAURY CHATELLIER, P.E.	MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE	DIRT ROAD CROSSING DETAIL
SA	REVISION 3	03/09/12				
SA	CDM COMMENT RESPONSE	11/18/11				
SA	REVISION 1	10/21/11				
DRAWN BY: YC			DESIGNED BY: SA	FEDERAL PROJECT NUMBER: N/A	STATE PROJECT NUMBER: BA-43 (EB)	DATE: MARCH 9, 2012
SHEET 32 OF 41						



PLAN VIEW

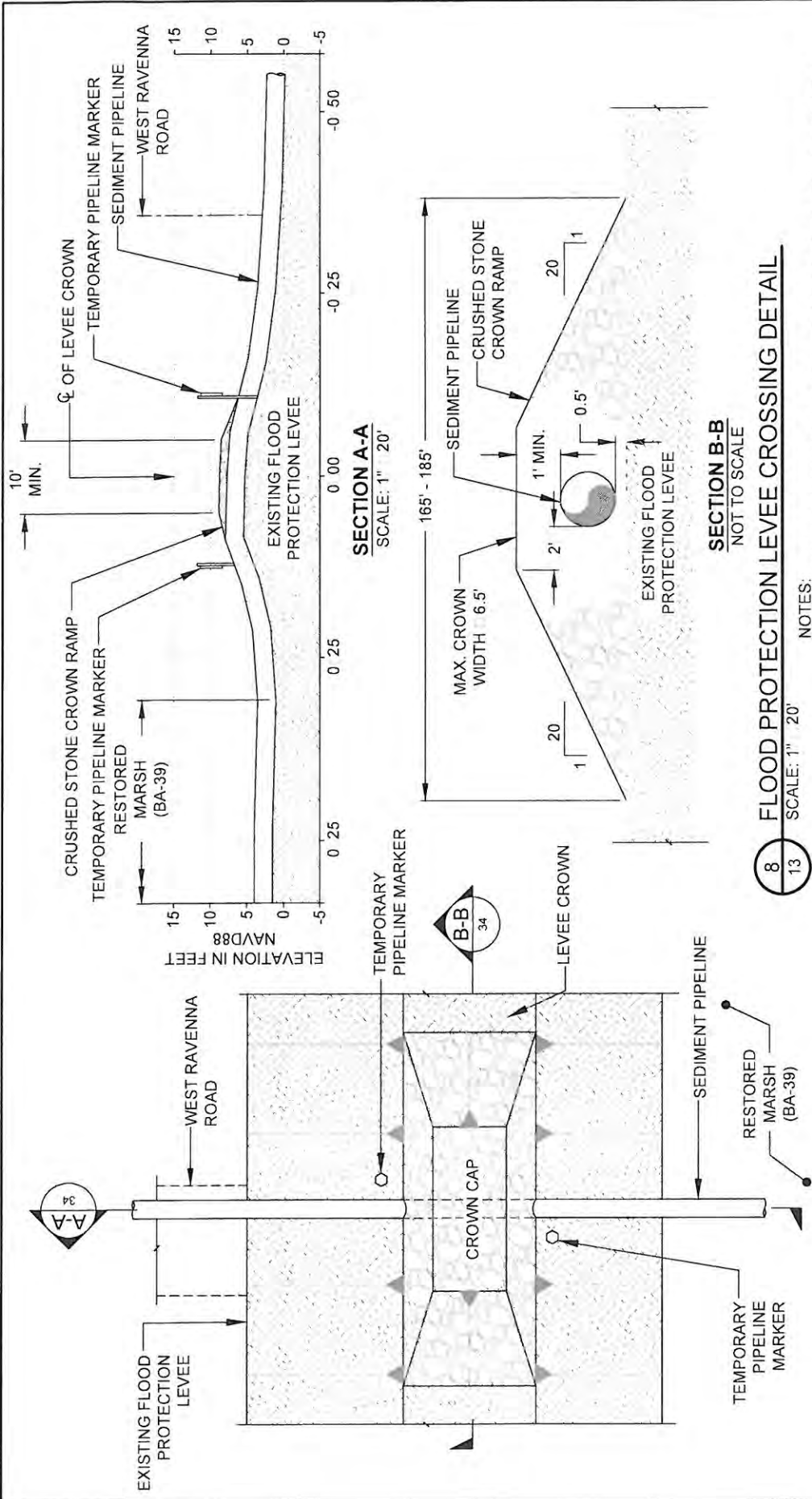


SECTION A-A

7 GRAVEL ROAD CROSSING DETAIL
13 NOT TO SCALE

NOTE:
THE CROWN RAMP OVER THE PIPELINE CROSSINGS SHALL CONSIST OF CRUSHED STONE FOR FULL WIDTH AND LENGTH OF RAMP. THE CRUSH STONE MATERIAL SHALL CONFORM TO DOTD 5006 SPECIFICATION 1003.04 (a).

BY	DESCRIPTION	DATE		COASTAL PROTECTION & RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE	GRAVEL ROAD CROSSING DETAIL
SA	REVISION 3	03/09/12				
SA	CDM COMMENT RESPONSE	11/18/11				
SA	REVISION 1	10/21/11				
DRAWN BY: YC			DESIGNED BY: SA	APPROVED BY: MAURY CHATELLIER, P.E.	STATE PROJECT NUMBER: BA-43 (EB)	DATE: MARCH 9, 2012
					FEDERAL PROJECT NUMBER: N/A	SHEET 33 OF 41



PLAN VIEW
NOT TO SCALE

8
13
FLOOD PROTECTION LEVEE CROSSING DETAIL
SCALE: 1" = 20'

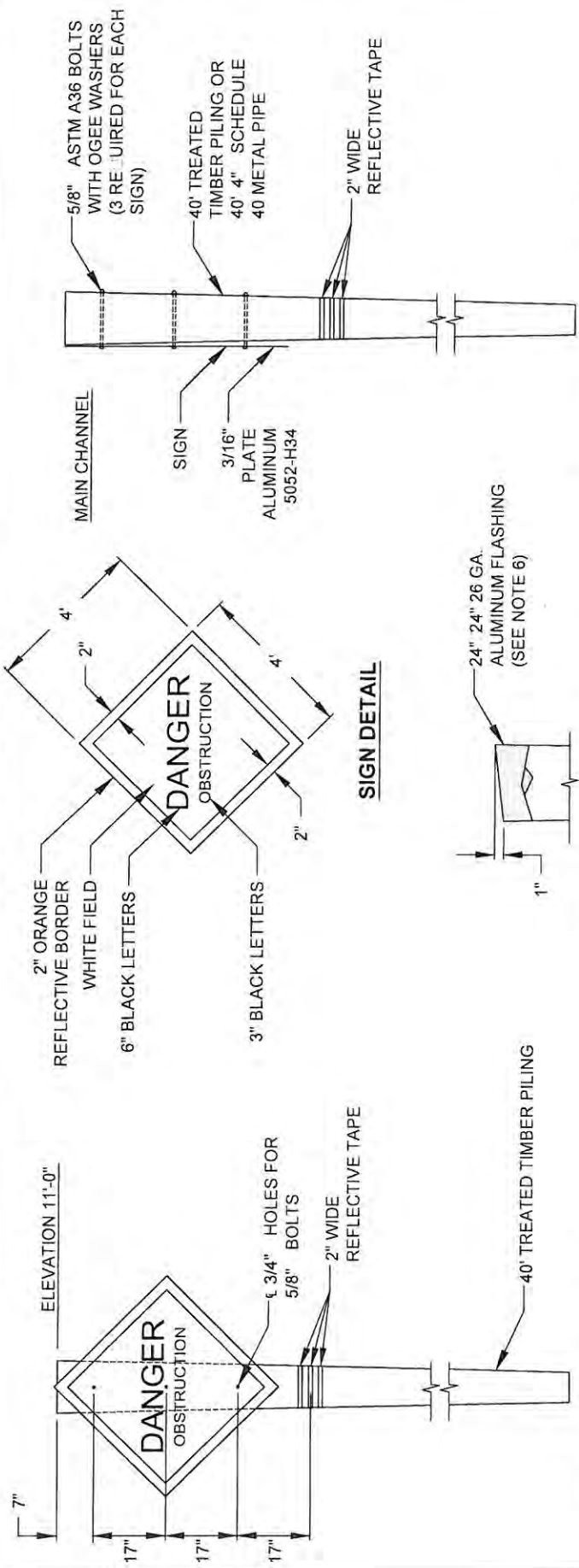
SECTION B-B
NOT TO SCALE

SECTION A-A
SCALE: 1" = 20'

NOTES:

1. THE CROWN RAMP OVER THE PIPELINE CROSSINGS SHALL CONSIST OF CRUSHED STONE FOR FULL WIDTH AND LENGTH OF RAMP. THE CRUSH STONE MATERIAL SHALL CONFORM TO DOTD 5006 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 SEDIMENT PIPELINE.
3. EXISTING GRADE BASED ON JANUARY 2012 TBS SURVEY.

BY	DESCRIPTION	DATE	DESIGNED BY: SA	APPROVED BY: MAURY CHATELLIER, P.E.	COASTAL PROTECTION & RESTORATION AUTHORITY	MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE	PROJECT PROTECTION LEVEE CROSSING DETAIL
SA	REVISION 3	03/09/12	ONE AMERICAN PLACE 300 MAIN STREET, SUITE 600 BATON ROUGE, LOUISIANA 70825 225-921-7750 KOFFAFT & NICHOL	450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	STATE PROJECT NUMBER: BA-43 (EB)	DATE: MARCH 9, 2012	
SA	CDM COMMENT RESPONSE	11/19/11			FEDERAL PROJECT NUMBER: N/A		
SA	REVISION 1	10/21/11					
DRAWN BY: YC							
							SHEET 34 OF 41



WARNING SIGN ELEVATION

TYPICAL TIMBER PILE CAP

WARNING SIGN SIDE DETAIL

9
22

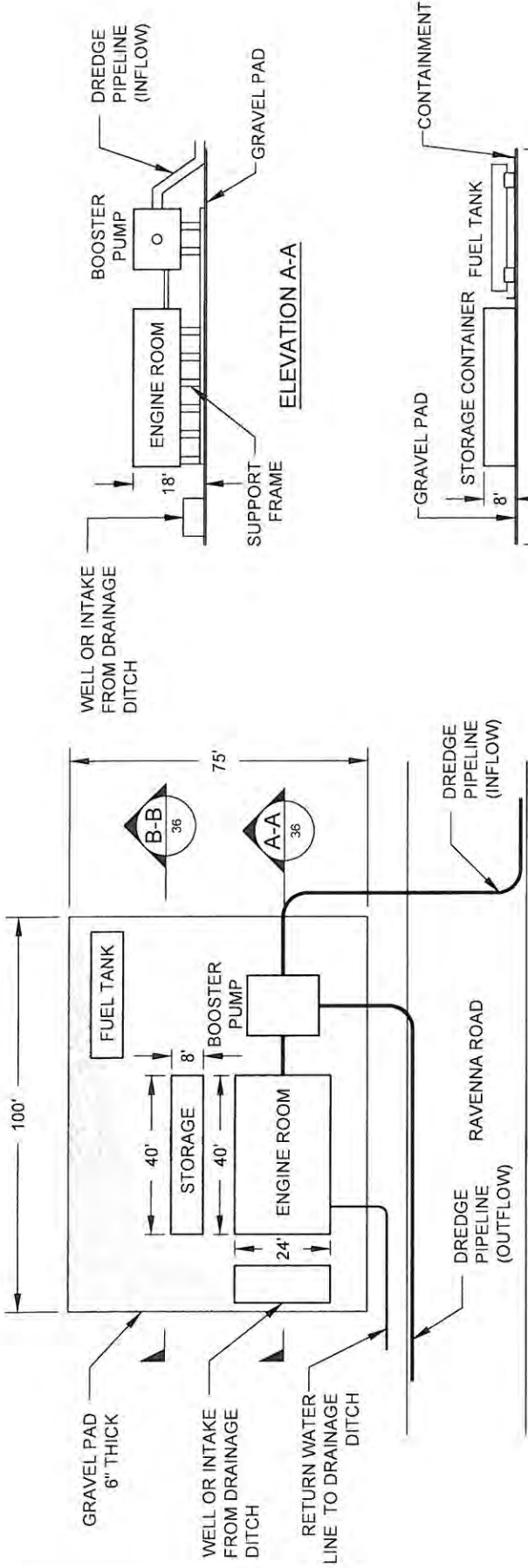
TEMPORARY WARNING SIGN DETAILS

NOT TO SCALE

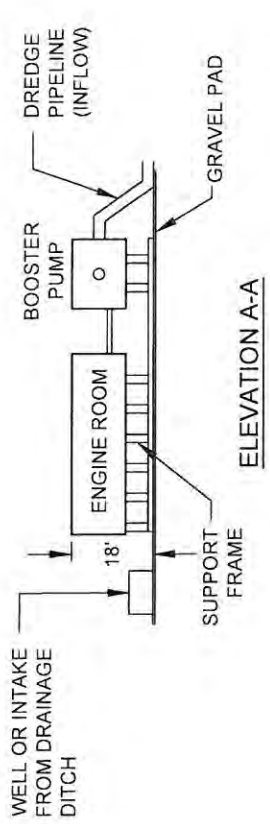
WARNING SIGN NOTES

1. TWENTY-FIVE (25) TEMPORARY WARNING SIGNS, INCLUDING TIMBER PILES, SHALL BE INSTALLED AT LOCATIONS SHOWN ON SHEETS 21 AND 23. THE 2" BORDER ON THE WARNING SIGN WILL BE 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.uscg.mil/aircraft/02331r330_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.

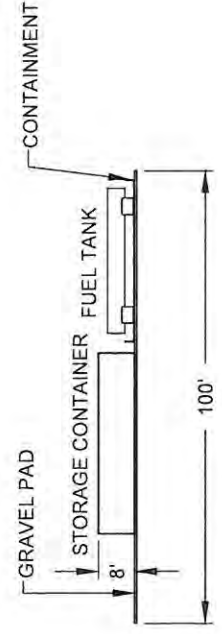
BY	DESCRIPTION	DATE	 ONE AMERICAN PLACE 301 MAIN STREET, SUITE 600 BATON ROUGE, LA 70805 225-937-7753	COASTAL PROTECTION & RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE	TEMORARY HOAL WARNING IGN ETAIL
SA	REVISION 3	09/09/12				
SA	CDM COMMENT RESPONSE	11/18/11				
SA	REVISION 1	10/21/11				
DRAWN BY: YC		DESIGNED BY: SA		APPROVED BY: MAURY CHATELIER, P.E.	STATE PROJECT NUMBER: BA-43 (EB)	DATE: MARCH 9, 2012
				FEDERAL PROJECT NUMBER: N/A	SHEET 35 OF 41	



PLAN



ELEVATION A-A

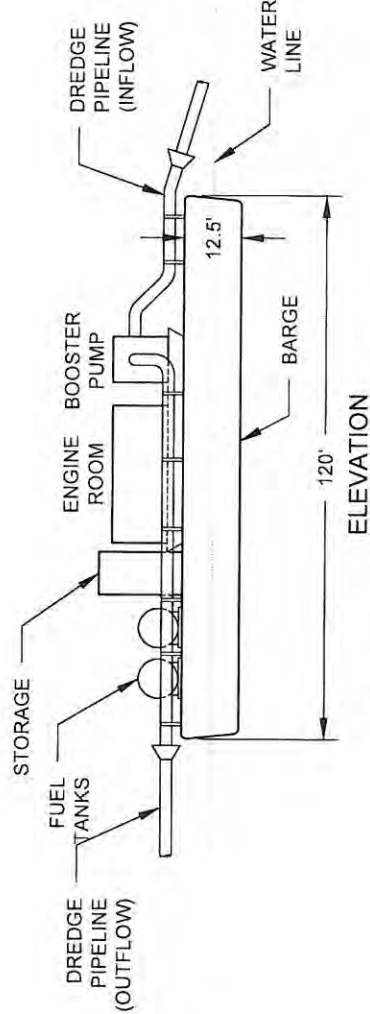
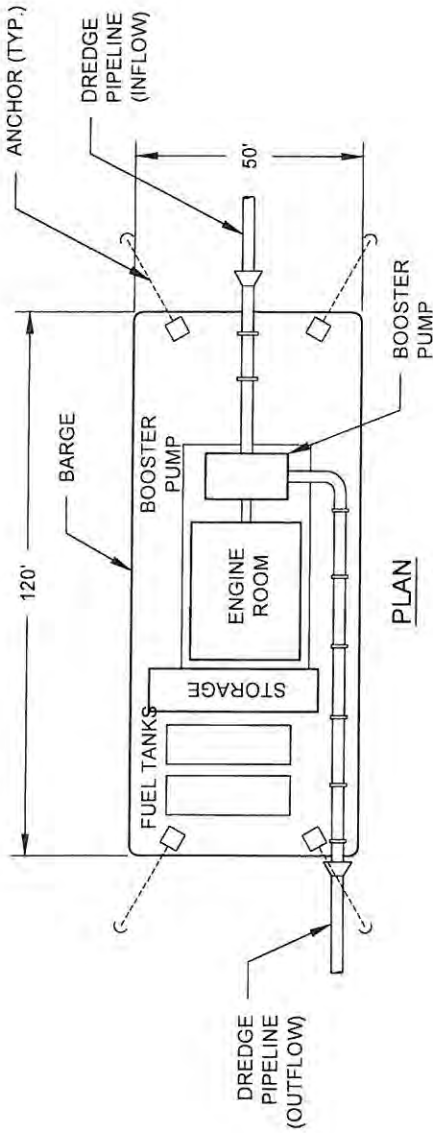


ELEVATION B-B

10 LANDSIDE BOOSTER PUMP DETAILS
13 NOT TO SCALE

NOTE:
TYPICAL LANDSIDE BOOSTER SETUP. ACTUAL MAY VARY.


BY	DESCRIPTION	DATE		COASTAL PROTECTION & RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE	LAN I, E BOOSTER PUMP LAN AN ELEVATION
SA	REVISION 3	03/09/12				
SA	CDM COMMENT RESPONSE	11/19/11				
SA	REVISION 1	10/21/11				
DRAWN BY: YC			DESIGNED BY: SA	APPROVED BY: MAURY CHATELIER, P.E.	FEDERAL PROJECT NUMBER: N/A	SHEET 36 OF 41
					STATE PROJECT NUMBER: BA-43 (EB)	DATE: MARCH 9, 2012

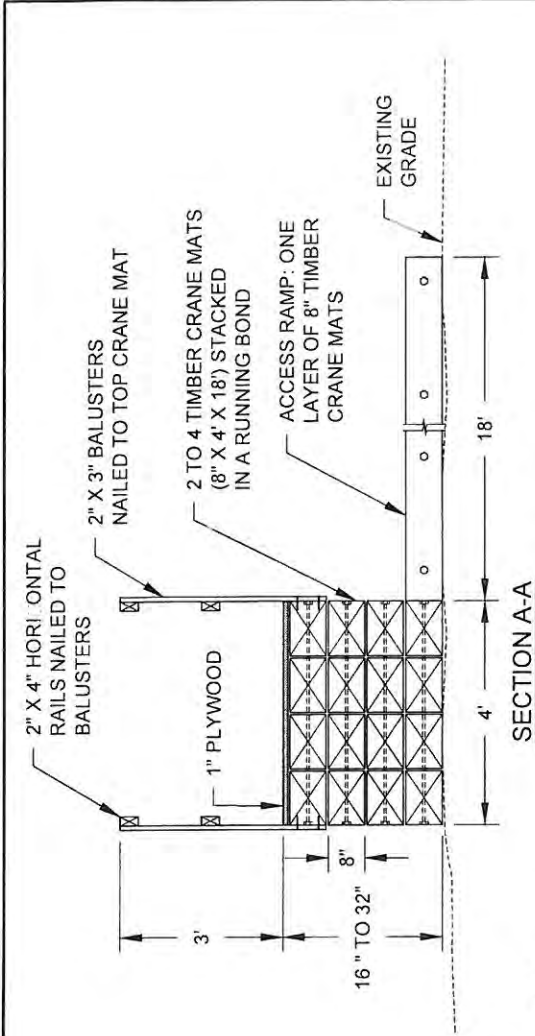
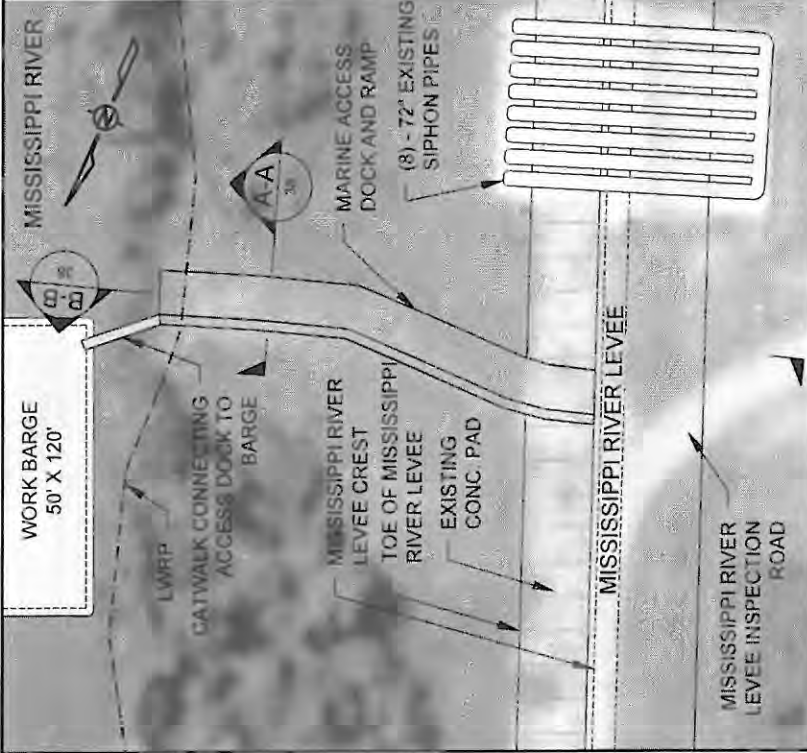


11
16

FLOATING BOOSTER PUMP DETAILS
NOT TO SCALE

NOTE:
TYPICAL FLOATING BOOSTER SETUP.
ACTUAL MAY VARY.

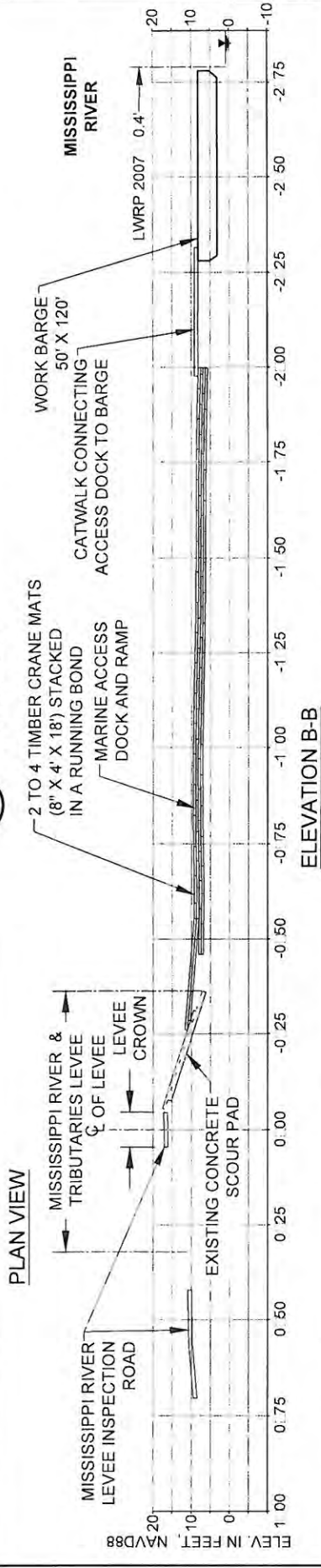
BY	DESCRIPTION	DATE	 <p>ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70825 225-627-7753</p>	<p>COASTAL PROTECTION & RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>	<p>MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE</p>	<p>LOADING BOOMERUM LAN AN ELEVATION</p>		
SA	REVISION 3	03/09/12					STATE PROJECT NUMBER: BA-43 (EB)	DATE: MARCH 9, 2012
SA	CDM COMMENT RESPONSE	11/18/11					FEDERAL PROJECT NUMBER: N/A	
SA	REVISION 1	10/21/11						
DRAWN BY: YC			DESIGNED BY: SA	APPROVED BY: MAURY CHATELIER, P.E.		SHEET 37 OF 41		



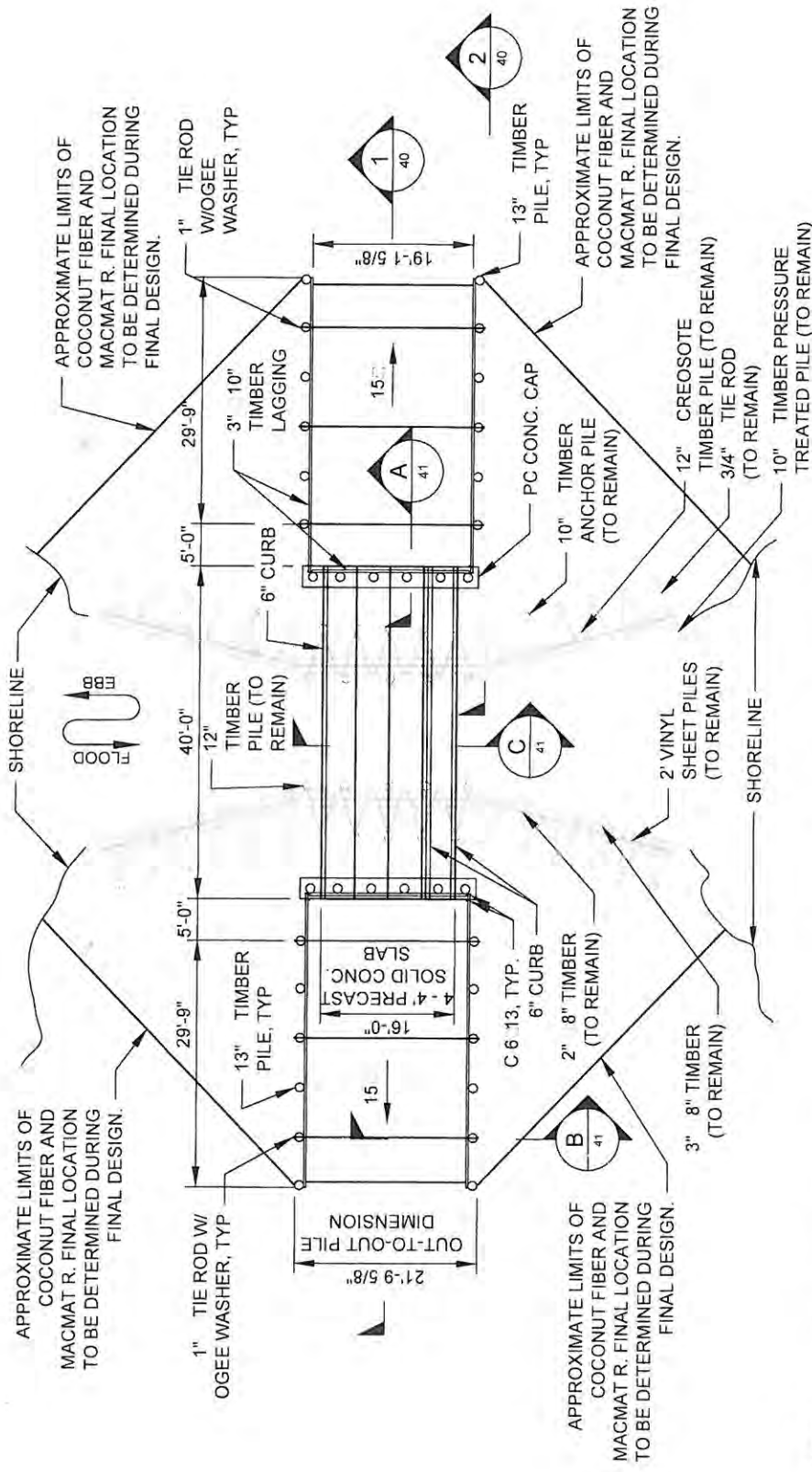
NOTES:

- EXISTING GRADES BASED ON JANUARY 2012 TBS SURVEY.
- TEMPORARY MARINE ACCESS DOCK WILL BE PLACED TO FACILITATE CONSTRUCTION PERSONNEL ACCESS TO THE MISSISSIPPI RIVER.
- ACCESS DOCK DETAILS BASED ON BA-39 PROJECT CONSTRUCTION. ACTUAL DETAILS MAY VARY BUT WILL HAVE TO BE INCLUDED IN THE CONTRACTOR'S WORK PLAN FOR APPROVAL BY THE ENGINEER PRIOR TO CONSTRUCTION AND PLACED WITHIN THE CONSTRUCTION LIMITS.
- ACCESS DOCK TO BE COMPLETELY REMOVED AFTER PROJECT IS COMPLETE.

12 TEMPORARY MARINE ACCESS DOCK DETAILS
16 NOT TO SCALE



BY	DESCRIPTION	DATE	COASTAL PROTECTION & RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801		MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE	TEM ORARY MARINE ACCE OC ETAIL
SA	REVISION 3	03/09/12	 ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70825 225-987-7750		STATE PROJECT NUMBER: BA-43 (EB)	DATE: MARCH 9, 2012
SA	CDM COMMENT RESPONSE	11/18/11				
SA	REVISION 1	10/21/11				
DRAWN BY: YC			APPROVED BY: MAURY CHATELLIER, P.E.		FEDERAL PROJECT NUMBER: N/A	SHEET 38 OF 41

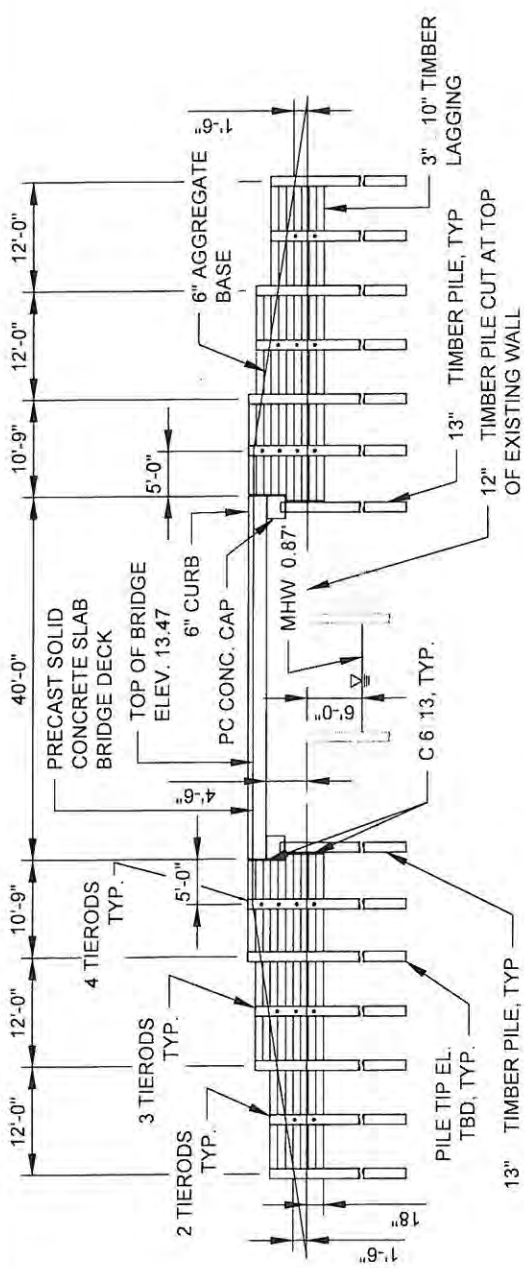


NOTE:
 REMOVE EXISTING METAL GRATE BRIDGE,
 PILES AND BEAMS ABOVE TOP OF BULKHEAD.

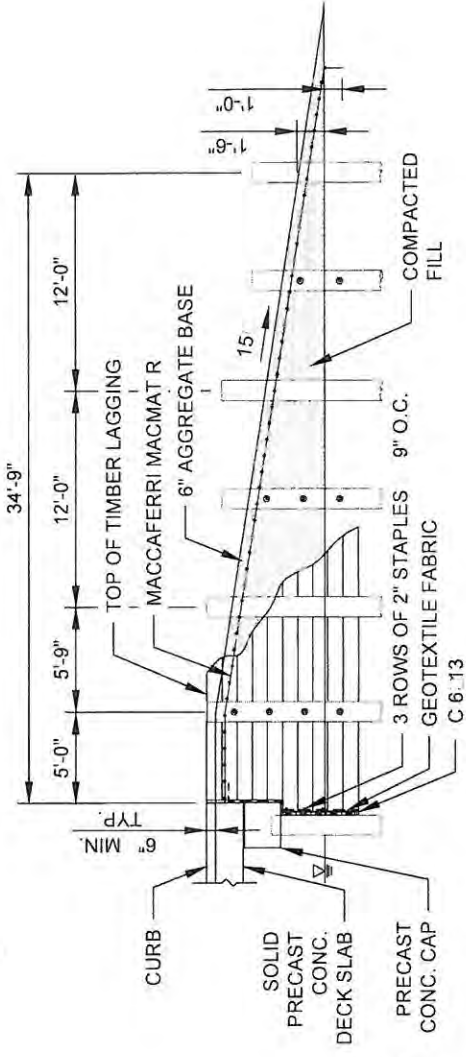
13 PROPOSED BRIDGE PLAN
 14 SCALE: 1" = 20'



BY	DESCRIPTION	DATE	 ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70825 225-927-7783	COASTAL PROTECTION & RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE	NEW BRIDGE I I E CROSSING DETAIL SHEET O
SA	REVISION 3	03/09/12				
SA	CDM COMMENT RESPONSE	11/18/11				
SA	REVISION 1	10/21/11				
DRAWN BY: YC		DESIGNED BY: SA		APPROVED BY: MAURY CHATELIER, P.E.	STATE PROJECT NUMBER: BA-43 (EB)	DATE: MARCH 9, 2012
				FEDERAL PROJECT NUMBER: N/A	SHEET 39 OF 41	



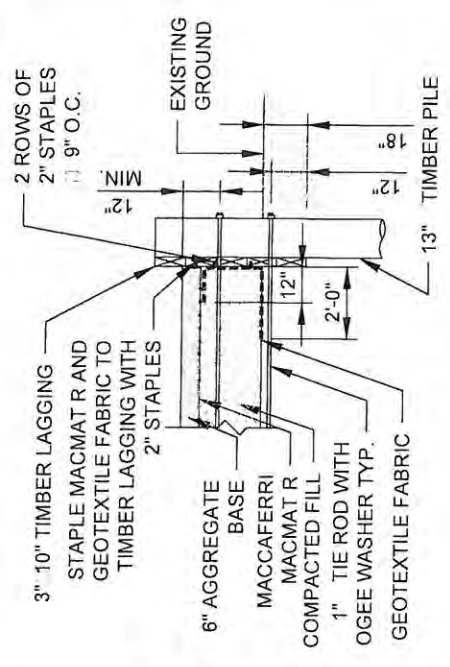
1
39
PROPOSED BRIDGE ELEVATION
SCALE: 1" = 20'



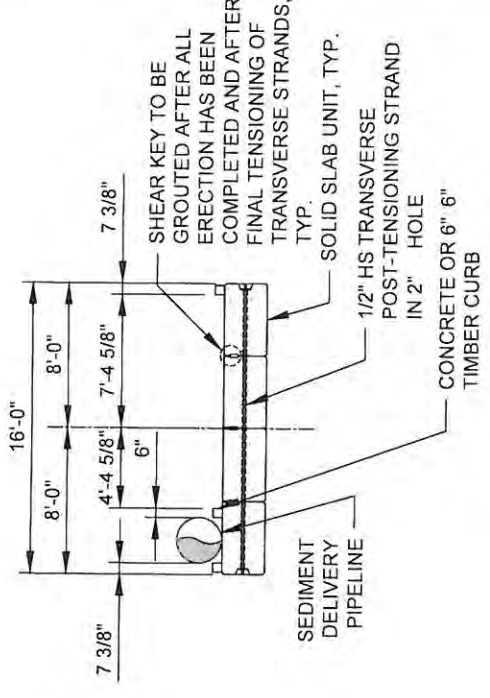
2
39
SECTION OF APPROACH
SCALE: 1" = 10'



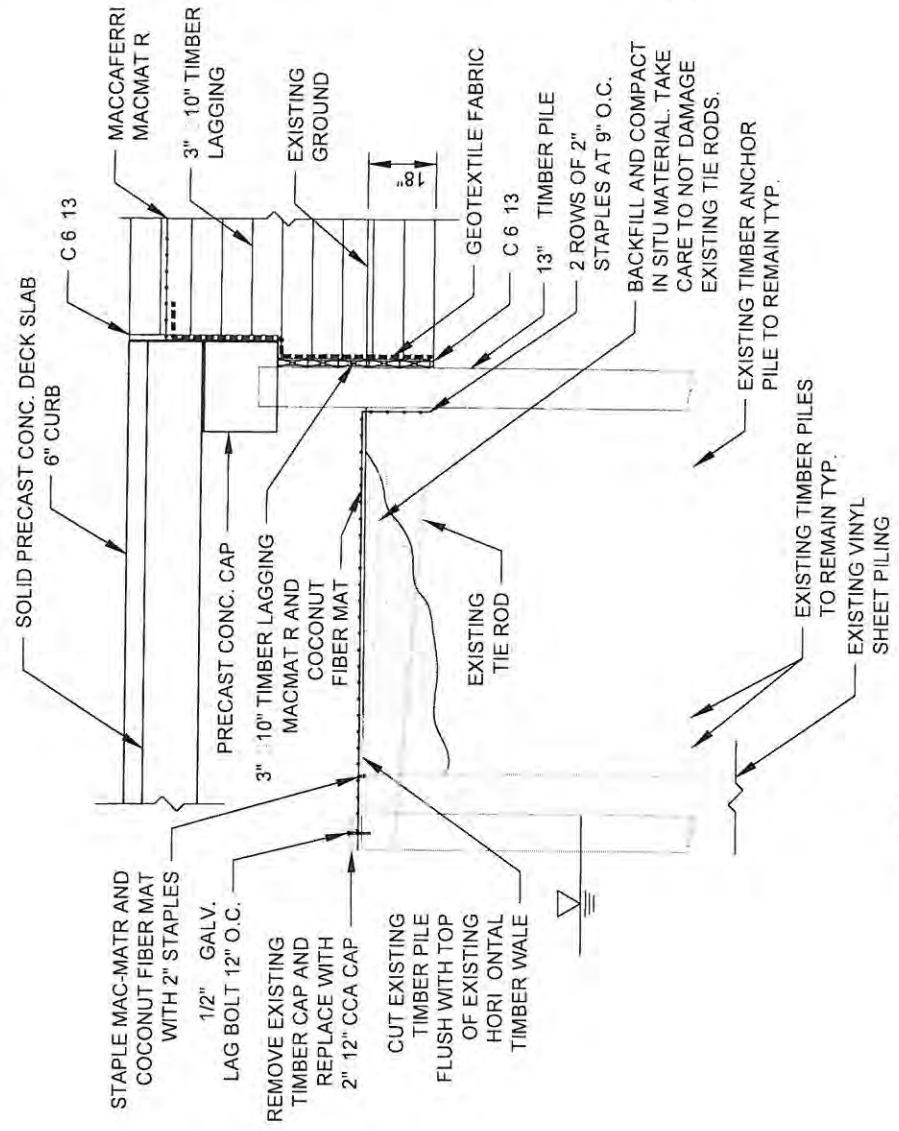
BY	DESCRIPTION	DATE		COASTAL PROTECTION & RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE	NEW BRIDGE LITE CROWLING ETAL SHEET 0
SA	REVISION 3	03/09/12				
SA	CDM COMMENT RESPONSE	11/19/11				
SA	REVISION 1	10/21/11				
DRAWN BY: YC		DESIGNED BY: SA		APPROVED BY: MAURY CHATELIER, P.E.	STATE PROJECT NUMBER: BA-43 (EB)	DATE: MARCH 9, 2012
					FEDERAL PROJECT NUMBER: N/A	SHEET 40 OF 41



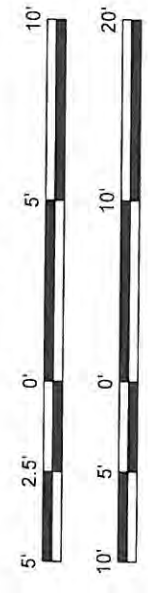
B SECTION THROUGH TIMBER LAGGING
SCALE: 1" = 5'



C BRIDGE SLAB CROSS SECTION
SCALE: 1" = 10'



A SECTION AT END BENT
SCALE: 1" = 10'



BY	DESCRIPTION	DATE		COASTAL PROTECTION & RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE	NEW BRIDGE II E CROSSING DETAIL SHEET 0...
SA	REVISION 3	09/09/12				
SA	CDM COMMENT RESPONSE	11/18/11				
SA	REVISION 1	10/21/11				
DRAWN BY: YC		DESIGNED BY: SA		APPROVED BY: MAURY CHATELIER, P.E.	STATE PROJECT NUMBER: BA-43 (EB)	DATE: MARCH 9, 2012
				FEDERAL PROJECT NUMBER: N/A	SHEET 41 OF 41	