

JOINT PUBLIC NOTICE

September 30, 2013

U.S. Army Corps of Engineers
New Orleans District
Regulatory Branch
Post Office Box 60267
New Orleans, LA 70160-0267

State of Louisiana
Department of Environmental Quality
Water Quality Certification Section
Post Office Box 4313
Baton Rouge, LA 70821-4313

Project Manager: Michael H. Herrmann
(504) 862-1954
Michael.h.herrmann@usace.army.mil
DA Permit Number: MVN-2013-02014-WLL

Project Manager: Jamie Phillippe
(225) 219-3225
WQC Number: WQC 130919-02

Interested parties are hereby notified that a permit application has been received by the New Orleans District of the U.S. Army Corps of Engineers pursuant to: [X] Section 10 of the Rivers and Harbors Act of March 3, 1899 (30 Stat. 1151; 33 U.S.C. 403); and/or [X] Section 404 of the Clean Water Act (86 Stat. 816; 33 U.S.C. 1344).

Application has also been made to the Louisiana Department of Environmental Quality for a Water Quality Certification (WQC) in accordance with statutory authority contained in La. R.S. 30:2074(A)(3) and provisions of Section 401 of the Clean Water Act (P.L. 95-217; 33 U.S.C. 1341).

SEDIMENT REMEDIATION ON THE CALCASIEU RIVER IN WESTLAKE LOUISIANA

Name of Applicant: Axiall Corporation, LLC, P.O. Box 1000, Lake Charles, Louisiana, 70602

Location of Work: 1300 PPG Drive, Westlake Louisiana, in CALCASIEU PARISH, Lat 30.20833, Long -93.29, as shown on the attached drawings. Project is located in the Calcasieu watershed: H.U.C. 08080206.

Character of Work: Excavate up to 1,352,385 cubic yards of water bottom sediments (62.6 acres), which includes approximately 95,000 cubic yards of contaminated material to be removed from Bayou d'Inde, and approximately 1,825 cubic yards (0.7 acre) of jurisdictional wetlands. The contaminated sediments will be placed into openwater within the 191.4 acres of designated containment areas, as depicted in attached plats which includes 5.3 acres of wetlands. The contaminated material will be capped and covered with non toxic polymer and clean borrow material removed from associated sites as indicated in attached plats, all in accordance with a sediment remediation project to mitigate potential human contact and/or ecological risks associated with impacted sediments in the Lower Section of PPG Canal, the Area South of South Closure, and the inactive portion of the Bypass Canal (collectively the "Lower Canal") and portions of Lockport Marsh, Bayou d'Inde, and certain "fringe marshes" associated with Bayou d'Inde. The activities proposed in this project conform to an order issued by the Louisiana Department of Environmental Quality (LDEQ).

Project will impact approximately 248.7 acres of open water bottoms, and 6 acres of tidal wetlands. The permittee has proposed to establish 7.4 acres of tidal marsh by placement of clean fill, at a height conducive to the establishment of tidal marsh, to function as a permittee responsible mitigation site for unavoidable, project related impacts. Any additional mitigation required will be obtained by the permittee as per Corps requirements.

The comment period for the Department of the Army (DA) permit application and the Louisiana Department of Environmental Quality WQC will close **20 days** from the date of this joint public notice. Written comments, including suggestions for modifications or objections to the proposed work, stating reasons thereof, are being solicited from anyone having interest in this DA permit and WQC request and must be mailed, so as to be received before or by the last day of the comment period. Letters

concerning the DA permit application must reference the applicant's name and the DA Permit Number, and be mailed to the U.S. Army Corps of Engineers at the address above. Similar letters concerning the WQC must reference the applicant's name and the WQC Number and be mailed to the Louisiana Department of Environmental Quality at the address above. Individuals or parties may request an extension of time in which to comment on the proposed work by writing or e-mailing the Project Manager listed above. Any request must be specific and substantively supportive of the requested extension, and received by this office prior to the end of the initial comment period. The Section Chief will review the request and the requestor will be promptly notified of the decision to grant or deny the request. If granted, the time extension will be continuous to the initial comment period and, inclusive of the initial comment period, will not exceed a total of 30 calendar days.

The application for this proposed project is on file with the Louisiana Department of Environmental Quality and may be examined weekdays between 8:00 a.m. and 4:30 p.m. Copies may be obtained upon payment of costs of reproduction.

Corps of Engineers Permit Criteria

The decision whether to issue a permit will be based on an evaluation of the probable impacts, including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered, including the cumulative effects thereof; among these being: conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership and, in general, the needs and welfare of the people.

The U.S. Army Corps of Engineers is soliciting comments from the public, federal, state, and local agencies and officials, Indian Tribes, and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the U.S. Army Corps of Engineers to determine whether to make, modify, condition, or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

No properties listed on the National Register of Historic Places are known to be near the proposed work. The possibility exists that the proposed work may damage or destroy presently unknown archeological, scientific, prehistoric, or historical sites or data. Issuance of this public notice solicits input from the State Archeologist and State Historic Preservation Officer regarding potential impacts to cultural resources.

Our initial finding is that the proposed work would neither affect any species listed as endangered by the U.S. Departments of Interior or Commerce, nor affect any habitat designated as critical to the survival and recovery of any endangered species.

This notice initiates the Essential Fish Habitat (EFH) consultation requirements of the Magnuson-Stevens Fishery Conservation and Management Act. The applicant's proposal would result in the destruction or alteration of **256.7** acres of EFH utilized by various life stages of red drum and penaeid shrimp. Our initial determination is that the proposed action would not have a substantial adverse impact on EFH or federally managed fisheries in the Gulf of Mexico. Our final determination relative to project impacts and the need for mitigation measures is subject to review by and coordination with the National Marine Fisheries Service.

If the proposed work involves deposits of dredged or fill material into navigable waters, the

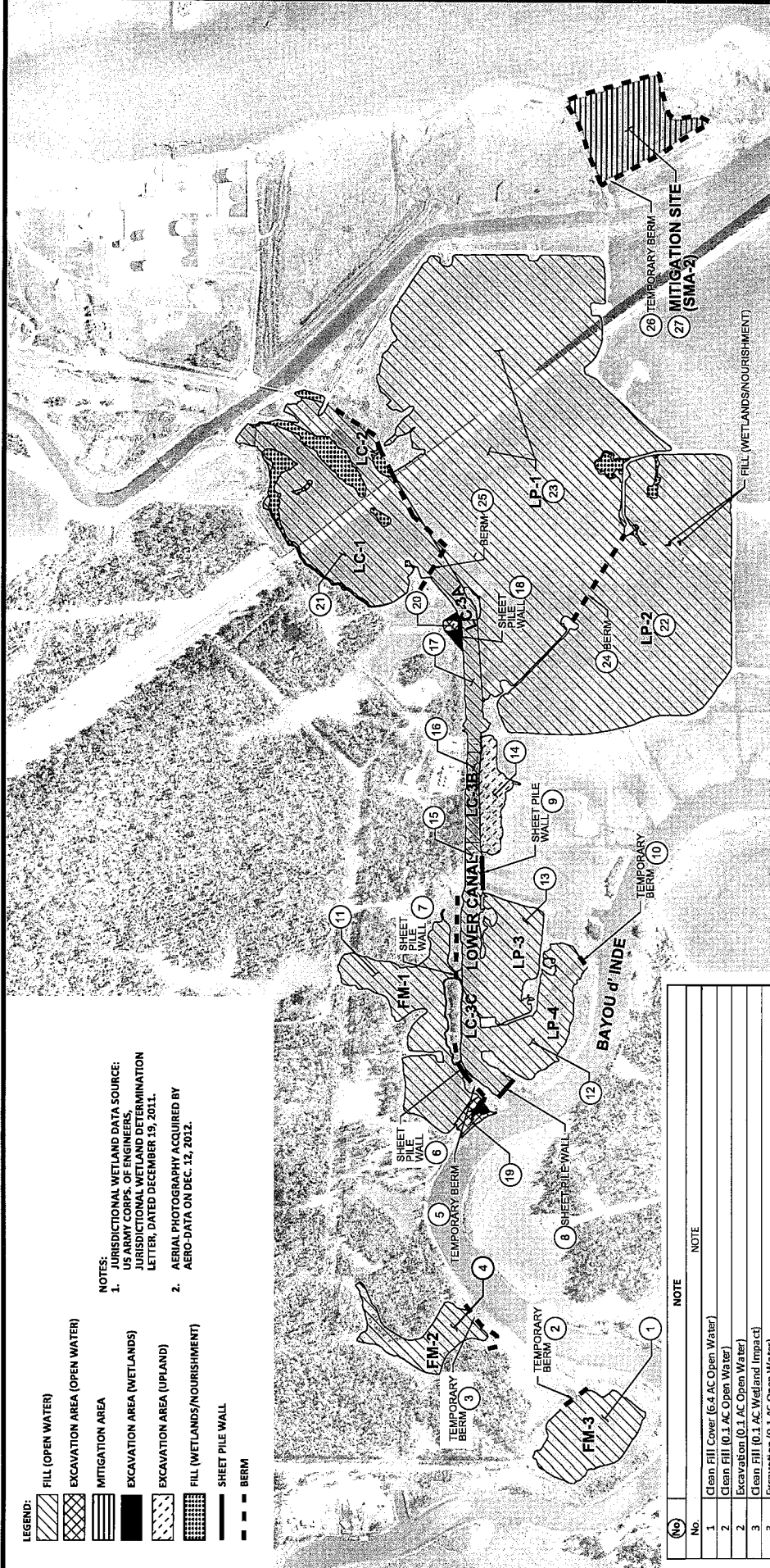
evaluation of the probable impacts will include the application of guidelines established by the Administrator of the U.S. Environmental Protection Agency. Also, a certification that the proposed activity will not violate applicable water quality standards will be required from the Louisiana Department of Environmental Quality before a permit is issued.

Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for public hearings shall state, with particularity, the reasons for holding a public hearing.

You are requested to communicate the information contained in this notice to any other parties whom you deem likely to have interest in the matter.

Darrell S. Barbara
Chief, Western Evaluation Section
Regulatory Branch

Enclosure



LEGEND:

- FILL (OPEN WATER)
- EXCAVATION AREA (OPEN WATER)
- MITIGATION AREA
- EXCAVATION AREA (WETLANDS)
- EXCAVATION AREA (UPLAND)
- FILL (WETLANDS/NOURISHMENT)
- SHEET PILE WALL
- BERM

NOTES:

- JURISDICTIONAL WETLAND DATA SOURCE: US ARMY CORPS OF ENGINEERS, JURISDICTIONAL WETLAND DETERMINATION LETTER, DATED DECEMBER 19, 2011.
- AERIAL PHOTOGRAPHY ACQUIRED BY AERO-DATA ON DEC. 12, 2012.


SUMMARY TABLE

	Volume (Cubic Yards)	Area (Acres)
Total Potential Available Volume for Excavation - Open Water Bottoms	2,096,800	62.6
Total Excavation Wetlands (Temporary berm borrow areas and drainage features)	1,825	0.7
Total fill/deposition Open Water Bottoms (direct impact from berms)	864,470	186.1
Fill in Wetlands (nourishment)	750	0.9
Fill in Wetlands (nourishment)	10,370	4.4
Fill in Open Wetlands (Restoration)	26,000	7.4

Note:

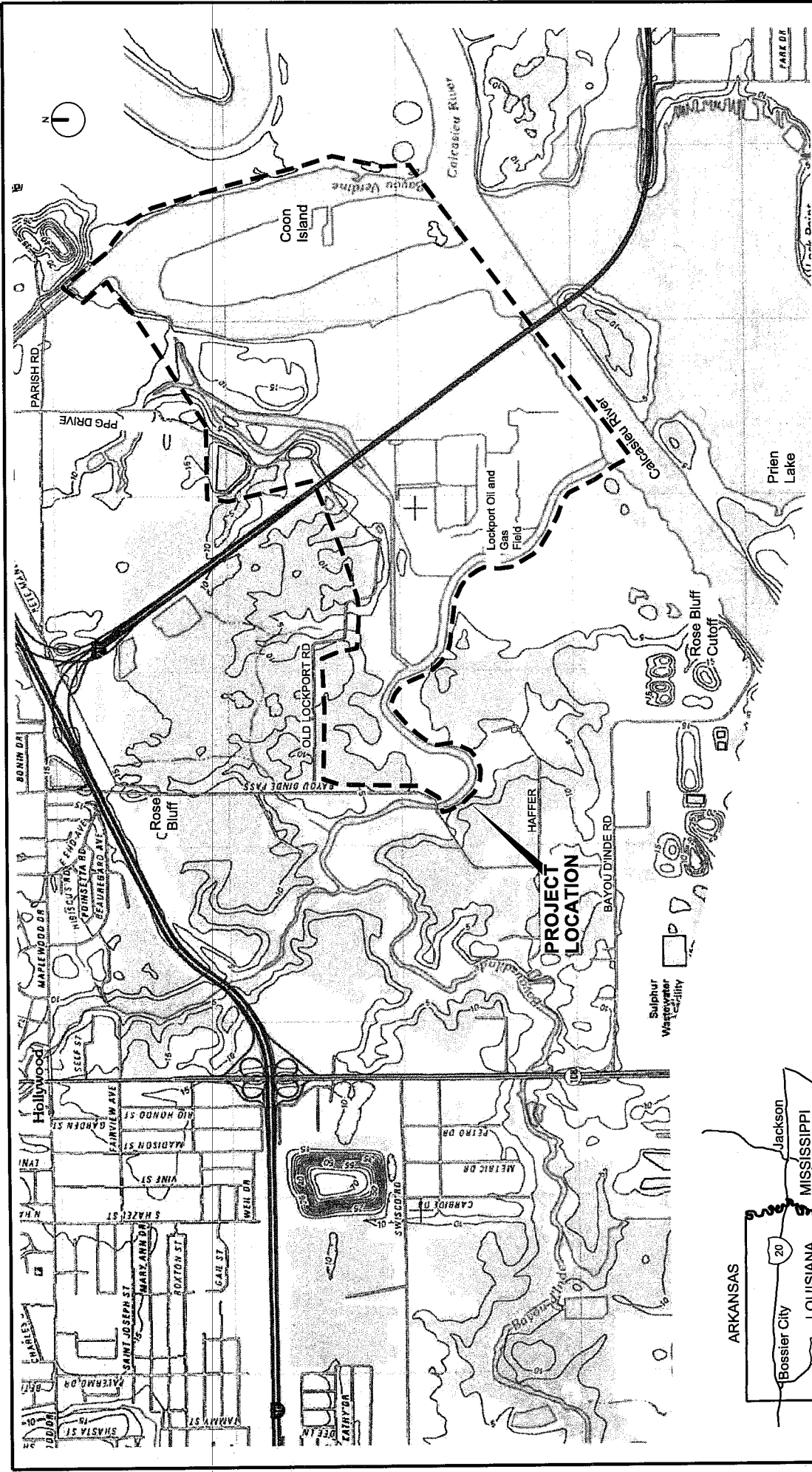
- Total excavation in open waters includes 2,096,800 cubic yards excavate from the Coon Island Reach and Bayou D'Inde shown on Figure 6.
- Total fill/deposition open Water Bottoms includes 3,500 cubic yards from the Mud Pond.

(No)	NOTE
1	Clean Fill Cover (6.4 AC Open Water)
2	Clean Fill (0.1 AC Open Water)
3	Excavation (0.1 AC Wetland Impact)
4	Excavation (0.1 AC Open Water)
5	Clean Fill Cover (4.3 AC Open Water)
6	Clean Fill (0.2 AC Wetland Impact)
7	(Open Water)
8	(Open Water)
9	(Open Water)
10	Imported Clean Sand Cover (10.7 AC Open Water)
11	Clean Fill Cover (7.9 AC Open Water)
12	Clean Fill Cover (6.1 AC Open Water)
13	Excavation (2.5 AC Upland Area)
14	Clean Fill Cap (4.4 AC Open Water)
15	Clean Fill Cap (2.5 AC Open Water/0.1 AC Wetland Impact)
16	Clean Fill Cap (4.4 AC Open Water)
17	(Open Water)
18	Excavation (0.5 AC Open Water/0.2 AC Wetland Impact)
19	Excavation (0.4 AC Open Water/0.2 AC Wetland Impact)
20	Clean Fill Cap (2.9 AC Open Water/3.6 AC Wetland Nourishment)
21	Impacted Sediment Fill Covered by Clean Fill Cover (39.2 AC Open Water/0.3 AC Wetland Nourishment)
22	Clean Fill Cover (7.5 AC Open Water/0.4 AC Wetland Nourishment)
23	Clean Fill (0.4 AC Open Water)
24	Clean Fill (0.8 AC Open Water)
25	Clean Fill (0.5 AC Open Water/0.1 AC Wetland Impact)
26	Clean Fill (0.5 AC Open Water/Fragmented Wetlands)
27	Mitigation Site: SMA-2 (7.4 AC Open Water/Fragmented Wetlands to be restored with Clean Fill)



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CHLOROVINYLS PRODCUTS
LAKE CHARLES, LA

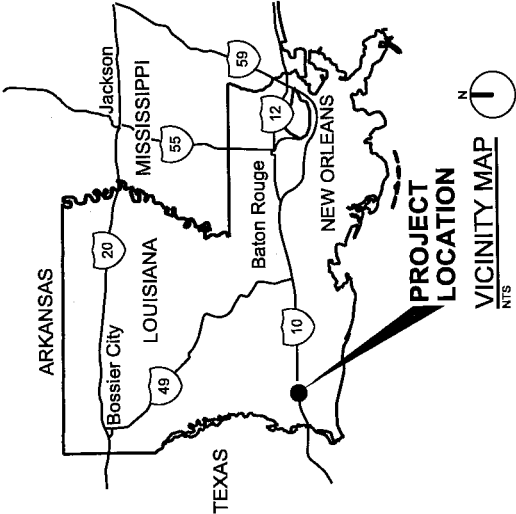
SUPPLEMENTAL FIGURE 2
PROPOSED FEATURES
INTEGRATED SEDIMENT
REMEDATION PROJECT



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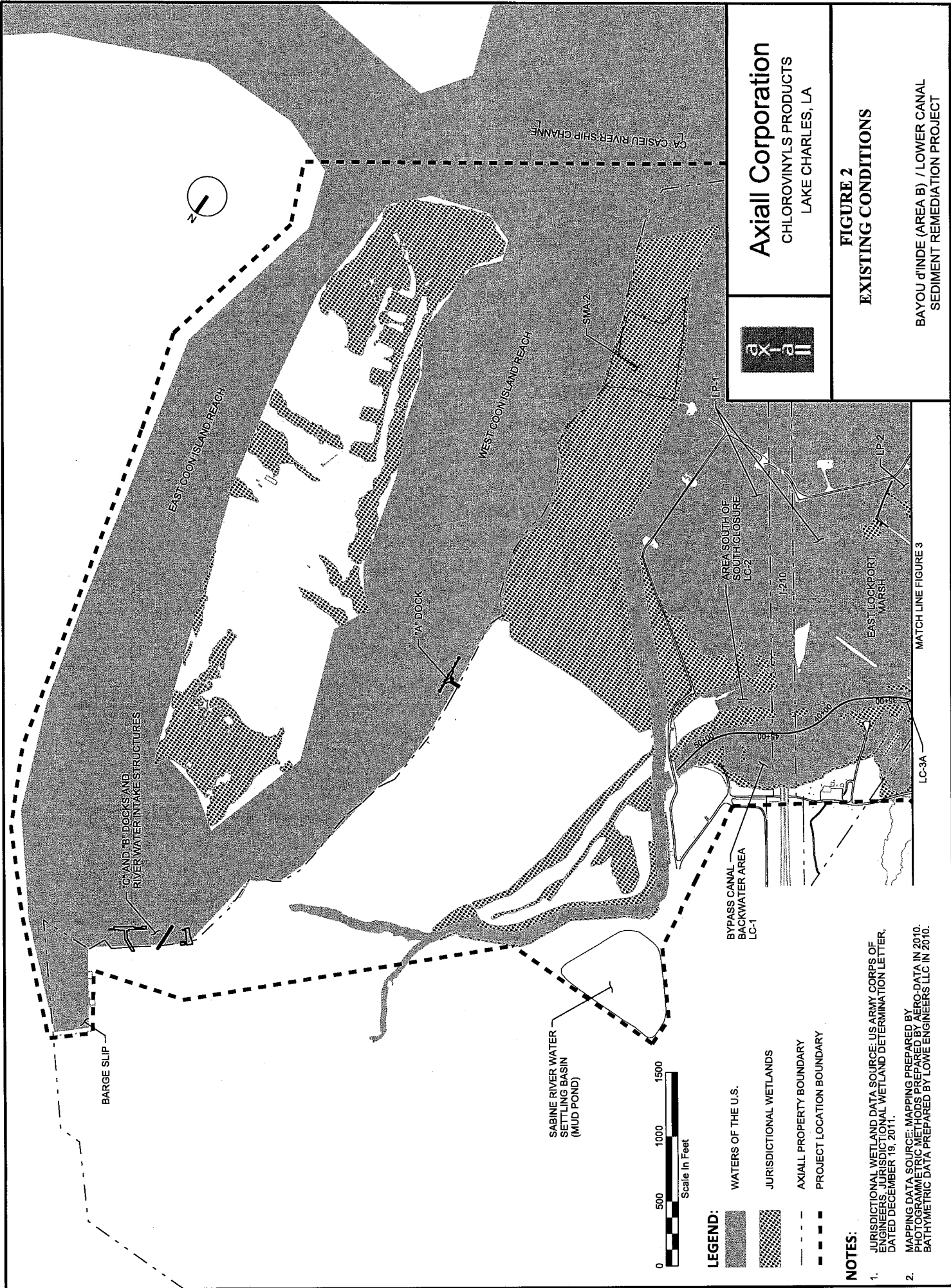
FIGURE 1
LOCATION AND VICINITY MAP

BAYOU D'INDE (AREA B) / LOWER CANAL
 SEDIMENT REMEDIATION PROJECT



PROJECT LOCATION MAP
 NTS

VICINITY MAP
 NTS



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FIGURE 2
EXISTING CONDITIONS

BAYOU d'INDE (AREA B) / LOWER CANAL
 SEDIMENT REMEDIATION PROJECT

LEGEND:

WATERS OF THE U.S.

JURISDICTIONAL WETLANDS

AXIALL PROPERTY BOUNDARY

PROJECT LOCATION BOUNDARY

NOTES:

- JURISDICTIONAL WETLAND DATA SOURCE: US ARMY CORPS OF ENGINEERS, JURISDICTIONAL WETLAND DETERMINATION LETTER, DATED DECEMBER 19, 2011.
- MAPPING DATA SOURCE: MAPPING PREPARED BY PHOTOGRAMMETRIC METHODS PREPARED BY AERO DATA IN 2010. BATHYMETRIC DATA PREPARED BY LOWE ENGINEERS LLC IN 2010.

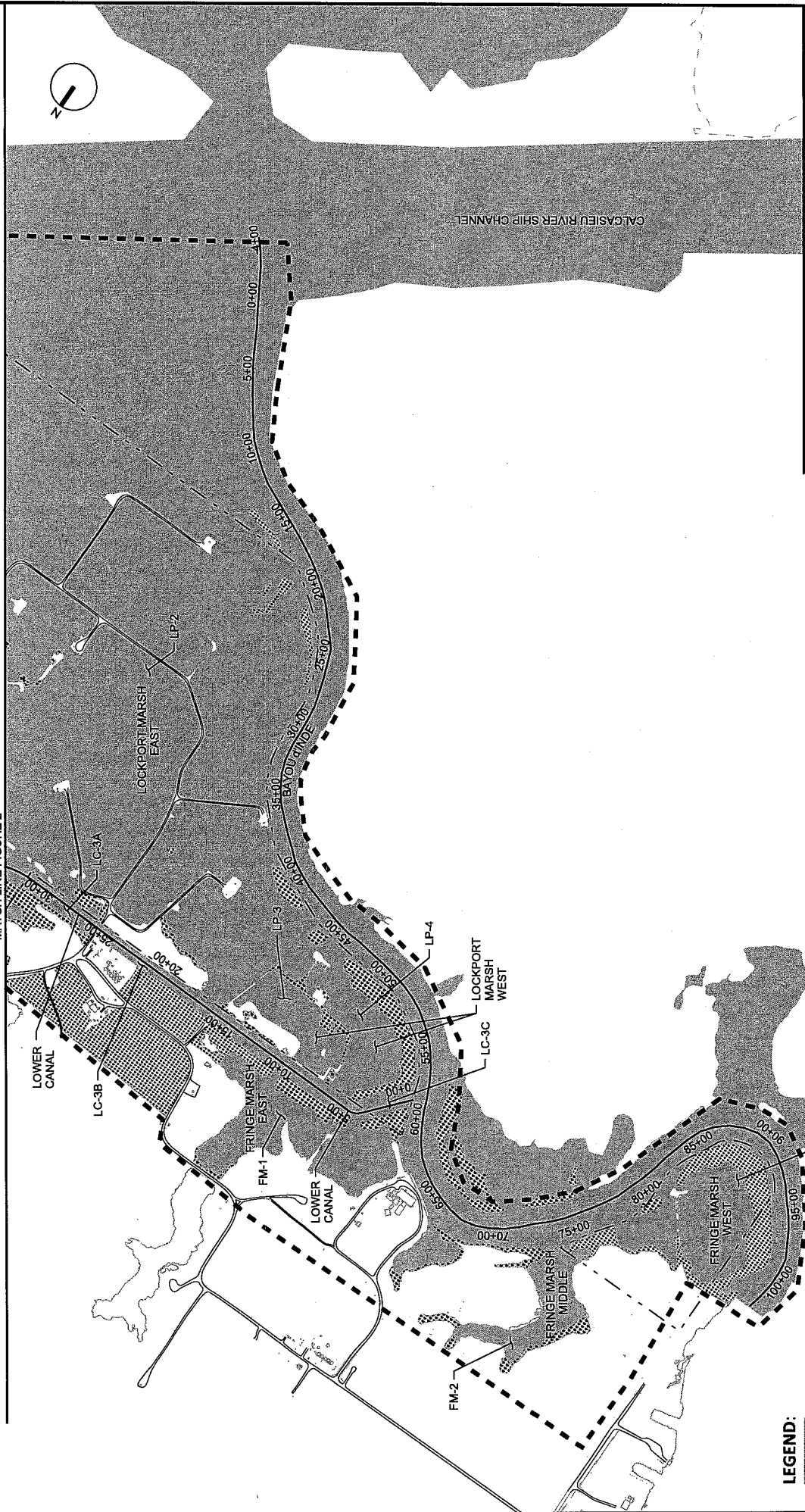


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FIGURE 3
EXISTING CONDITIONS

BAYOU d'INDE (AREA B) / LOWER CANAL
 SEDIMENT REMEDIATION PROJECT

MATCH LINE FIGURE 2



- LEGEND:**
- WATERS OF THE U.S.
 - JURISDICTIONAL WETLANDS
 - AXIALL PROPERTY BOUNDARY
 - PROJECT LOCATION BOUNDARY

NOTES:

1. JURISDICTIONAL WETLAND DATA SOURCE: US ARMY CORPS OF ENGINEERS, JURISDICTIONAL WETLAND DETERMINATION LETTER, DATED DECEMBER 19, 2011.
2. MAPPING DATA SOURCE: MAPPING PREPARED BY PHOTOGRAMMETRIC METHODS PREPARED BY AEREO DATA IN 2010. BATHYMETRIC DATA PREPARED BY LOWE ENGINEERS LLC IN 2010.

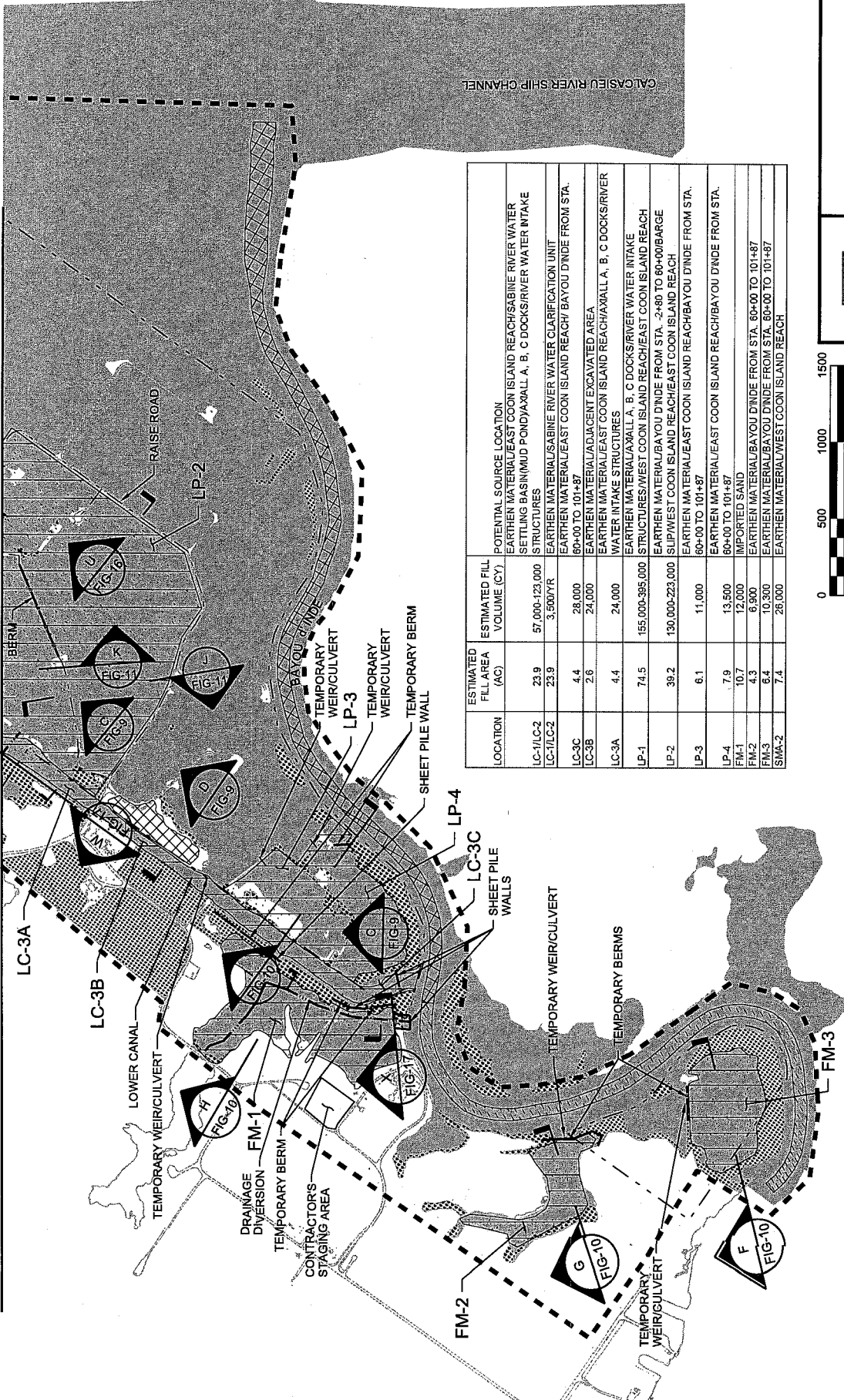


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**FIGURE 5
 PROPOSED FEATURES**

BAYOU D'INDE (AREA B) / LOWER CANAL
 SEDIMENT REMEDIATION PROJECT

MATCH LINE FIGURE 4



LOCATION	ESTIMATED FILL AREA (AC)	ESTIMATED FILL VOLUME (CY)	POTENTIAL SOURCE LOCATION
LC-1/LC-2	23.9	57,000-123,000	EARTHEN MATERIAL/EAST COON ISLAND REACH/SABINE RIVER WATER SETTLING BASIN(MUD POND)/WALL A, B, C DOCK/SRIVER WATER INTAKE STRUCTURES
LC-1/LC-3	23.9	3,500/YR	EARTHEN MATERIAL/SABINE RIVER WATER CLARIFICATION UNIT
LC-3C	4.4	28,000	60'-00 TO 101'-87
LC-3B	2.6	24,000	EARTHEN MATERIAL/ADJACENT EXCAVATED AREA
LC-3A	4.4	24,000	EARTHEN MATERIAL/EAST COON ISLAND REACH/WALL A, B, C DOCK/SRIVER WATER INTAKE STRUCTURES
LP-1	74.5	155,000-395,000	EARTHEN MATERIAL/WALL A, B, C DOCK/SRIVER WATER INTAKE STRUCTURES/WEST COON ISLAND REACH/EAST COON ISLAND REACH
LP-2	39.2	130,000-223,000	SLIP/WEST COON ISLAND REACH/EAST COON ISLAND REACH
LP-3	6.1	11,000	EARTHEN MATERIAL/EAST COON ISLAND REACH/BAYOU D'INDE FROM STA. 60'-00 TO 101'-87
LP-4	7.9	13,500	EARTHEN MATERIAL/EAST COON ISLAND REACH/BAYOU D'INDE FROM STA. 60'-00 TO 101'-87
FM-1	10.7	12,000	IMPORTED SAND
FM-2	4.3	6,900	EARTHEN MATERIAL/BAYOU D'INDE FROM STA. 60'-00 TO 101'-87
FM-3	6.4	10,300	EARTHEN MATERIAL/BAYOU D'INDE FROM STA. 60'-00 TO 101'-87
SMA-2	7.4	26,000	EARTHEN MATERIAL/WEST COON ISLAND REACH



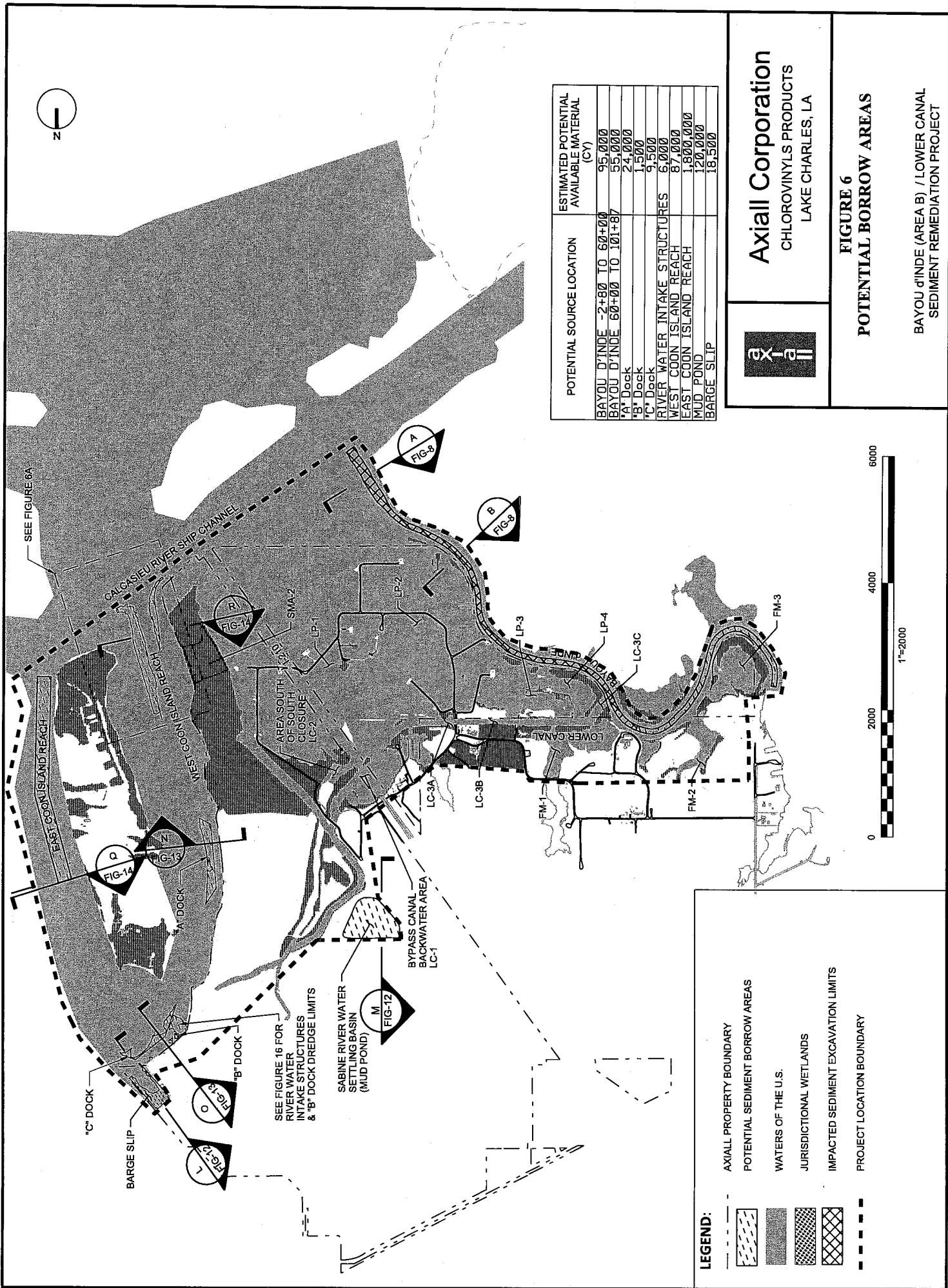
Scale In Feet

- AXIALL PROPERTY BOUNDARY
- RAISE EXISTING ROAD
- DRAINAGE DIVERSION
- PROJECT LOCATION BOUNDARY

NOTES:
 REFER TO FIGURE 3 FOR STATIONING OF LOWER CANAL AND BAYOU D'INDE

- CAP / COVER LIMITS
- POTENTIAL SOURCE MATERIAL DREDGING LIMITS
- CAP (FILL FROM ADJACENT UPLAND EXCAVATION) LIMITS
- EXCAVATION LIMITS
- WATERS OF THE U.S.
- JURISDICTIONAL WETLANDS

LEGEND:



POTENTIAL SOURCE LOCATION	ESTIMATED POTENTIAL AVAILABLE MATERIAL (CY)
BAYOU D'INDE -2+80 TO 60+00	95,000
BAYOU D'INDE 60+00 TO 101+87	55,000
A* Dock	24,000
B* Dock	1,500
C* Dock	9,500
RIVER WATER INTAKE STRUCTURES	6,000
WEST COON ISLAND REACH	87,000
EAST COON ISLAND REACH	1,800,000
MUD POND	120,000
BARGE SLIP	18,500



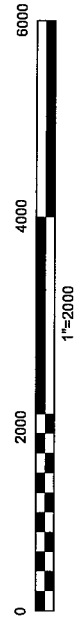
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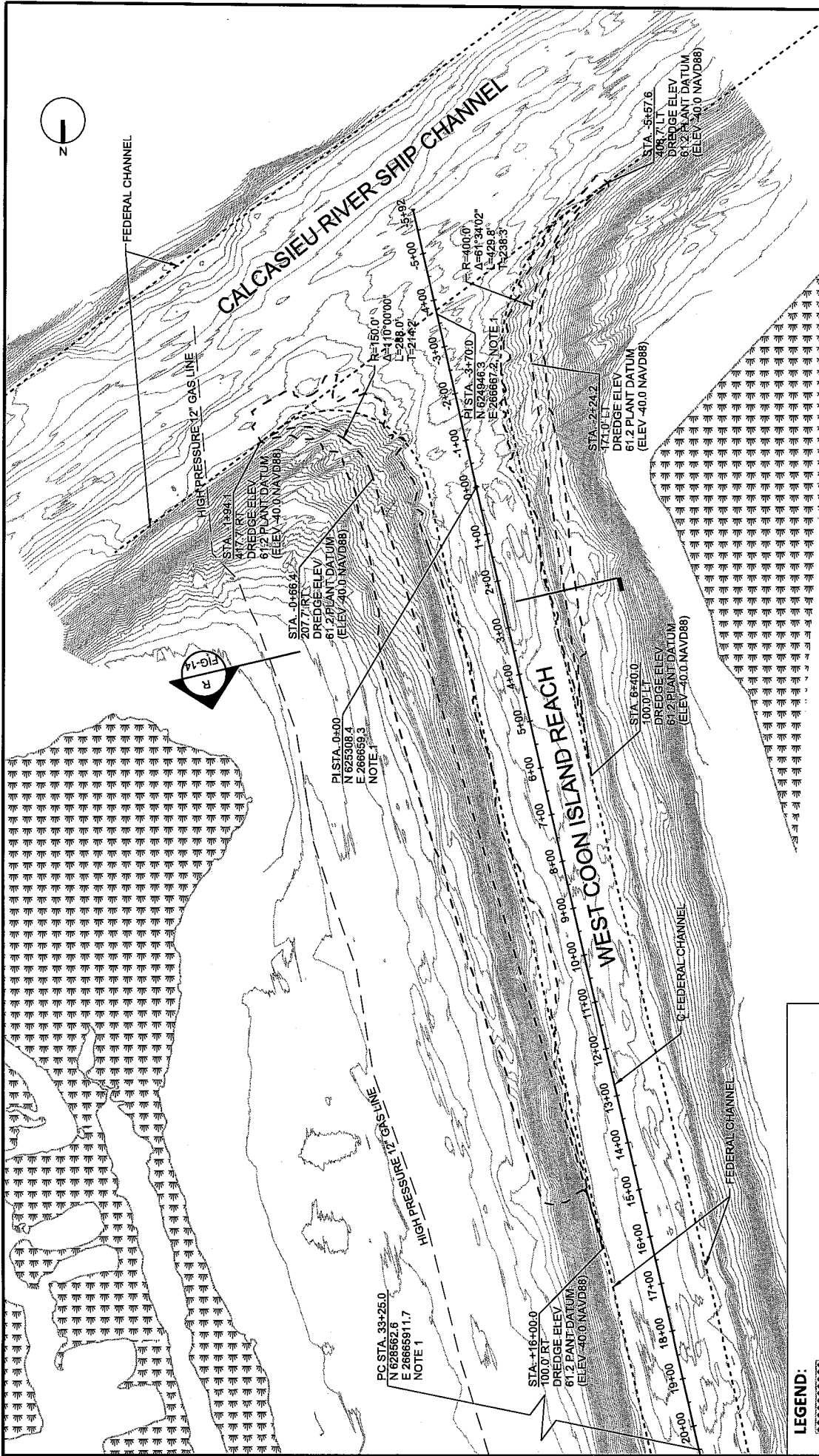
FIGURE 6
POTENTIAL BORROW AREAS

BAYOU D'INDE (AREA B) / LOWER CANAL
 SEDIMENT REMEDIATION PROJECT

LEGEND:

- AXIALL PROPERTY BOUNDARY
- POTENTIAL SEDIMENT BORROW AREAS
- WATERS OF THE U.S.
- JURISDICTIONAL WETLANDS
- IMPACTED SEDIMENT EXCAVATION LIMITS
- PROJECT LOCATION BOUNDARY





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FIGURE 6A
WEST COON ISLAND REACH AREA

axi

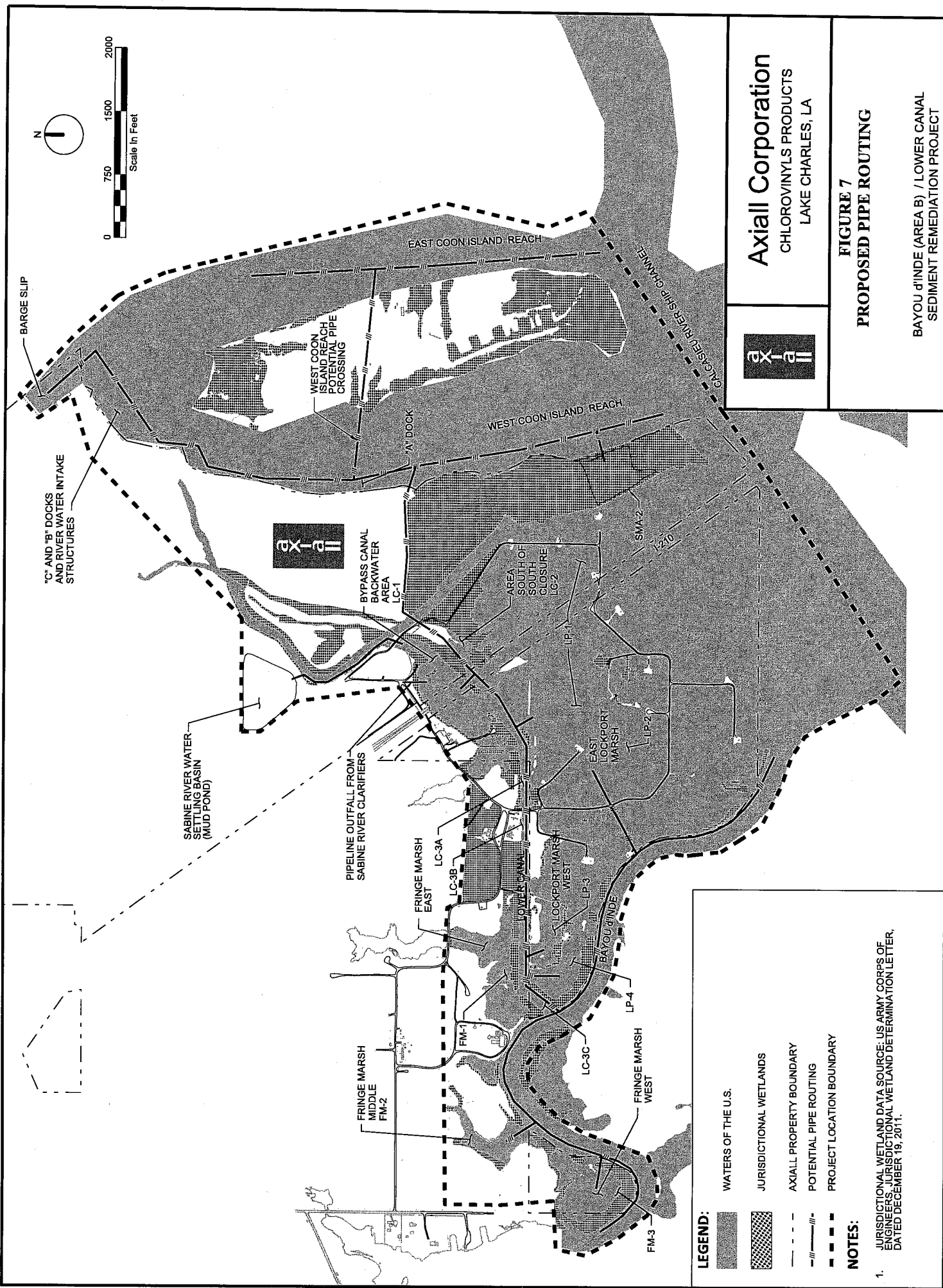
0 300 600 900
 1"=300'

LEGEND:

- JURISDICTIONAL WETLANDS
- FEDERAL CHANNEL
- DREDGE LIMITS

NOTES:

- FEDERAL CHANNEL CENTERLINE COORDINATES PROVIDED BY US ARMY CORPS OF ENGINEERS. DATUM: NORTH AMERICAN DATUM 1983.



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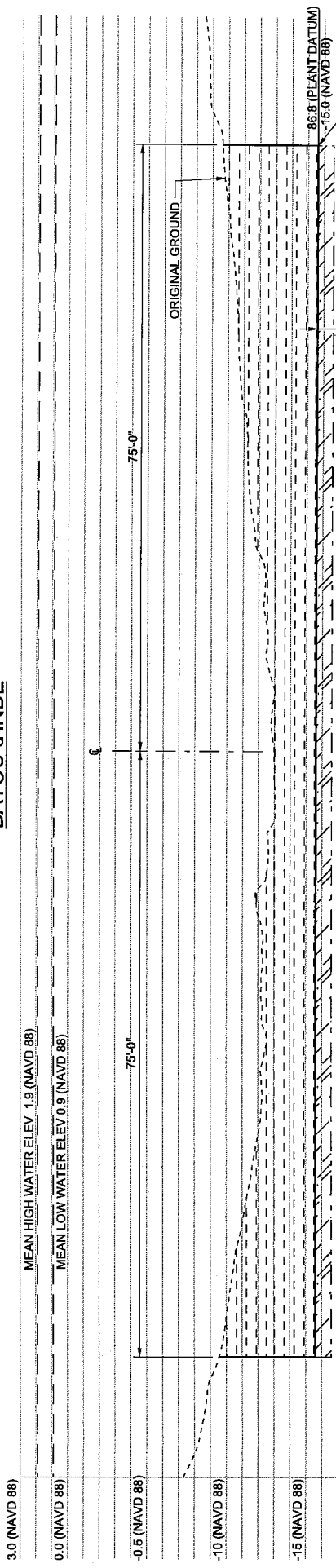


FIGURE 7
PROPOSED PIPE ROUTING

BAYOU d'INDE (AREA B) / LOWER CANAL
 SEDIMENT REMEDIATION PROJECT

- LEGEND:**
- WATERS OF THE U.S.
 - JURISDICTIONAL WETLANDS
 - AXIALL PROPERTY BOUNDARY
 - POTENTIAL PIPE ROUTING
 - PROJECT LOCATION BOUNDARY
- NOTES:**
- JURISDICTIONAL WETLAND DATA SOURCE: US ARMY CORPS OF ENGINEERS JURISDICTIONAL WETLAND DETERMINATION LETTER, DATED DECEMBER 18, 2011.

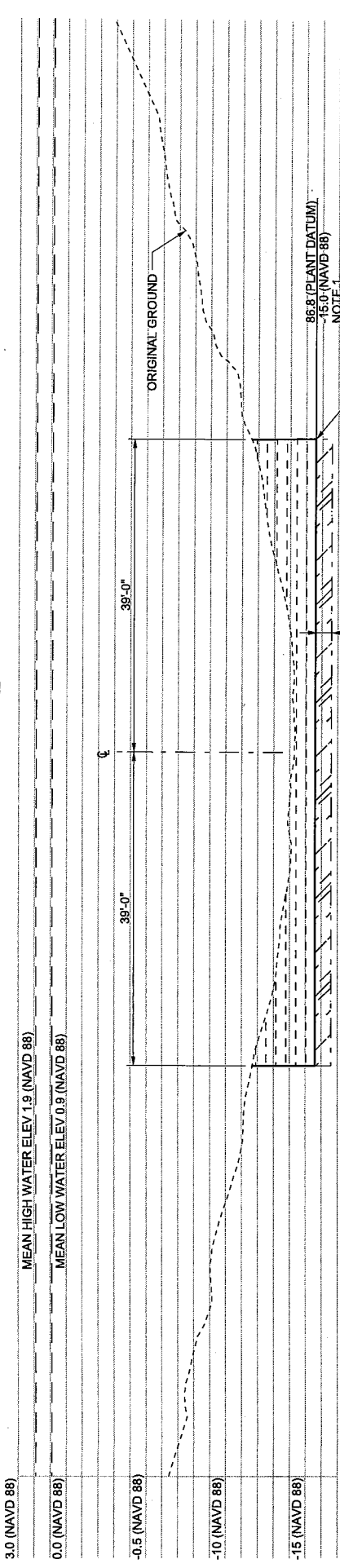
BAYOU d'INDE



A SECTION
 HOR: 1" = 20'
 VERT: 1" = 10'

FIGURE 6
 STA. -2+80 TO 6+48
 NOTE 2

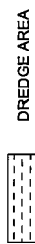
BAYOU d'INDE



B SECTION
 HOR: 1" = 20'
 VERT: 1" = 10'

FIGURE 6
 STA. 8+48 TO 10+87
 NOTE 2

LEGEND:



NOTES:

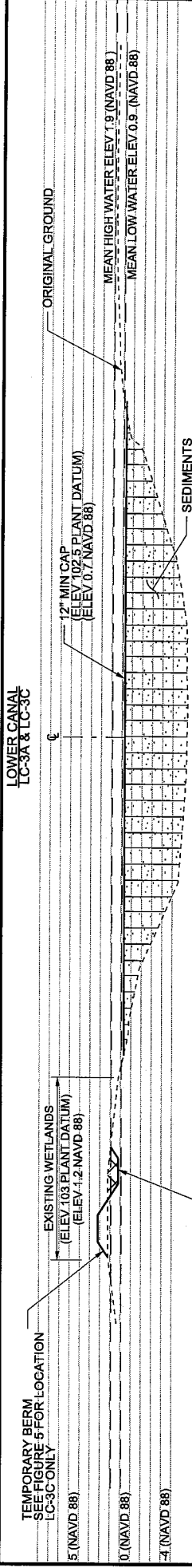
1. REQUIRED DREDGE DEPTH INCREASES TO ELEV 83.6 (PLANT DATUM) / -16.2 (NAVD88) BETWEEN STATION 45+00 TO 47+00.
2. WIDTH TRANSITIONS FROM 75'-0" TO 39'-0" FROM 6+48 TO 8+48
3. REFER TO FIGURES 2 AND 3 FOR STATIONING.



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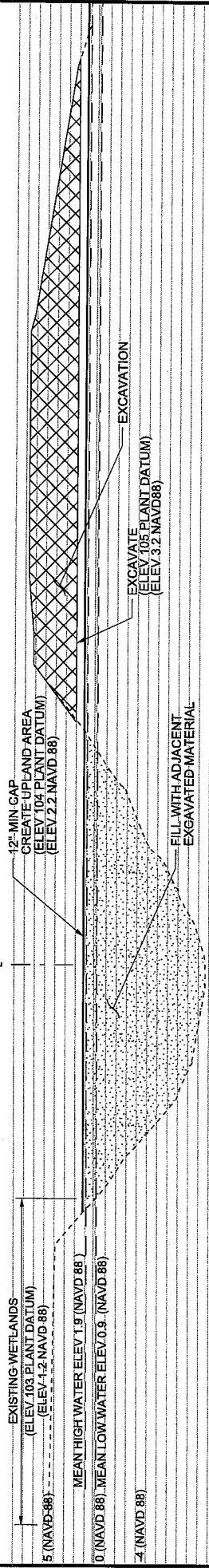
FIGURE 8
TYPICAL SECTIONS

BAYOU d'INDE (AREA B) / LOWER CANAL
 SEDIMENT REMEDIATION PROJECT

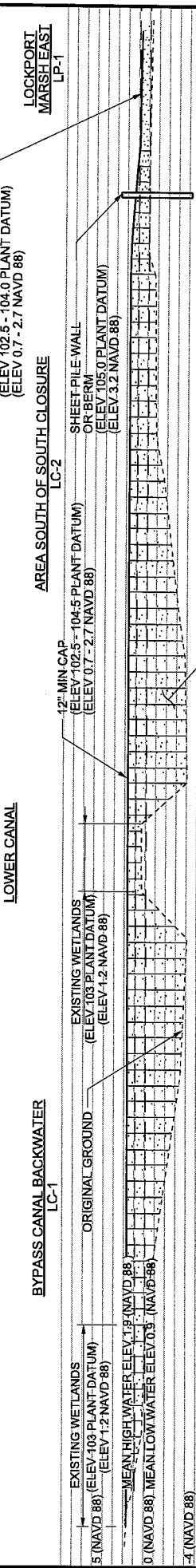


C SECTION
 HOR: 1" = 30'
 VERT: 1" = 15'
 FIGURE 4
 FIGURE 5
 STA. 11+25 TO 18+42.5
 STA. 24+35 TO 37+25

LOWER CANAL LC-3B



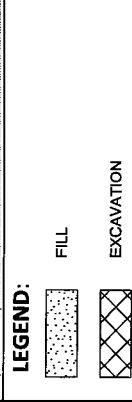
D SECTION
 HOR: 1" = 30'
 VERT: 1" = 15'
 FIGURE 5
 STA. 18+42.5 TO 24+35




E SECTION
 HOR: 1" = 100'
 VERT: 1" = 15'
 FIGURE 4
 STA. 37+25 TO 53+22

LOWER CANAL LC-2

BYPASS CANAL BACKWATER LC-1



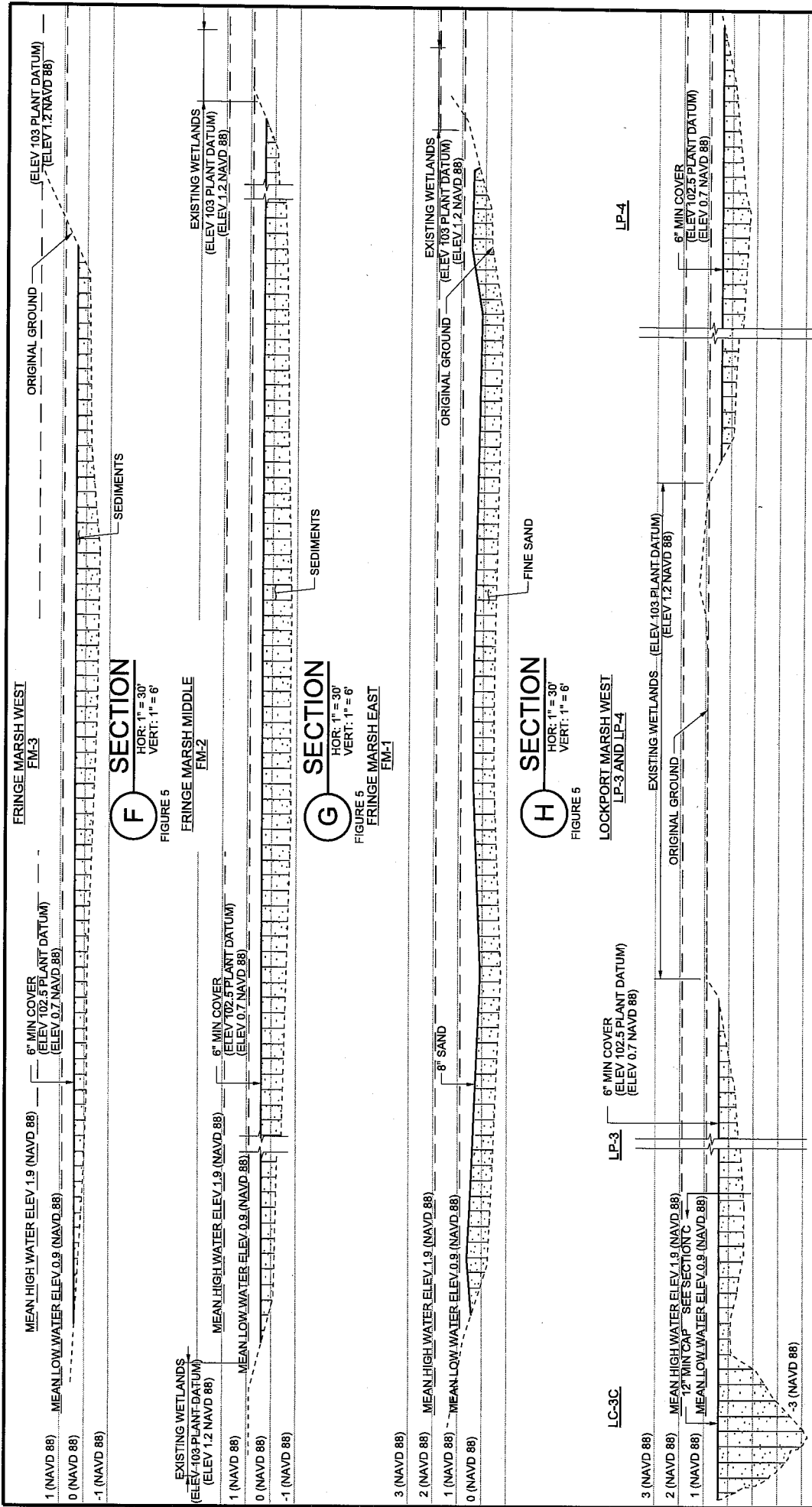
NOTES:
 1. REFER TO FIGURES 2 AND 3 FOR STATIONING.

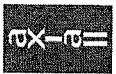


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FIGURE 9
TYPICAL SECTIONS

BAYOU d'INDE (AREA B) / LOWER CANAL
 SEDIMENT REMEDIATION PROJECT





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FIGURE 10

TYPICAL SECTIONS

BAYOU d'INDE (AREA B) / LOWER CANAL
SEDIMENT REMEDIATION PROJECT

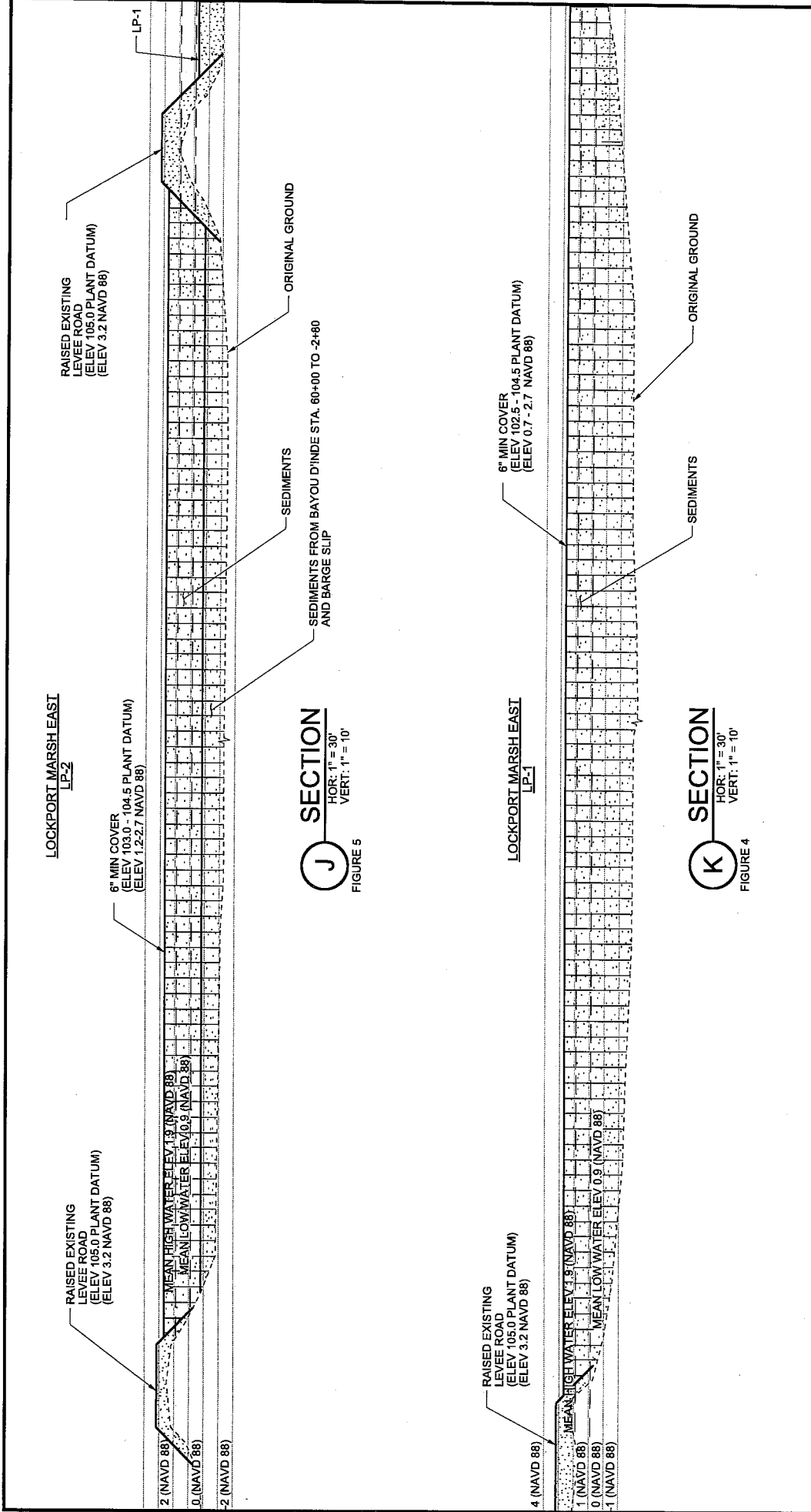
LEGEND:

	CAP/COVER

LEGEND:

	FILL
	CAP/COVER

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FIGURE 11 TYPICAL SECTIONS	
BAYOU d'INDE (AREA B) / LOWER CANAL SEDIMENT REMEDIATION PROJECT	



LOCKPORT MARSH EAST
 LP-2

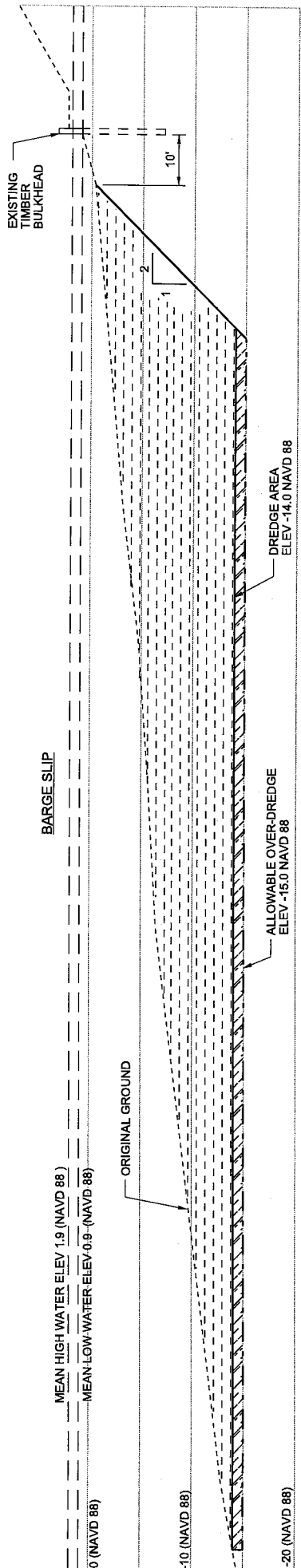
J SECTION
 HOR: 1" = 30'
 VERT: 1" = 10'

FIGURE 5

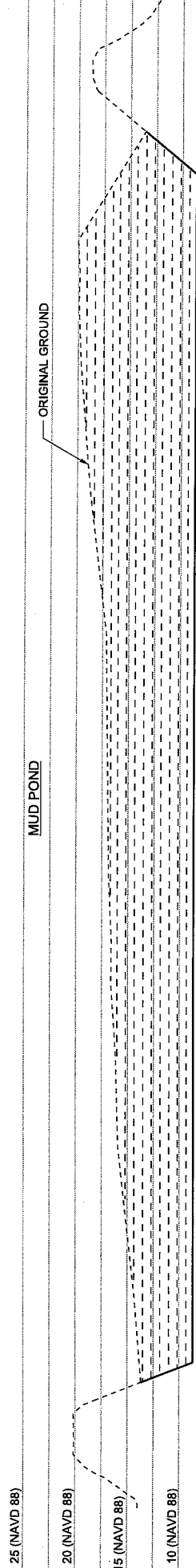
LOCKPORT MARSH EAST
 LP-1

K SECTION
 HOR: 1" = 30'
 VERT: 1" = 10'

FIGURE 4



L SECTION
 HOR: 1" = 60'
 VERT: 1" = 30'
 FIGURE 6



M SECTION
 HOR: 1" = 80'
 VERT: 1" = 16'
 FIGURE 6

LEGEND:

DREDGE AREA

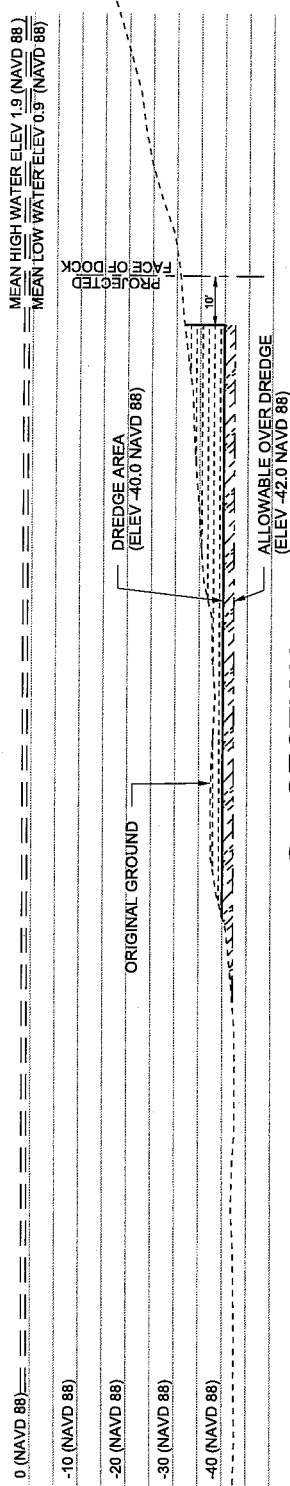
ALLOWABLE OVER DREDGE

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 LAKE CHARLES, LA

FIGURE 12
TYPICAL SECTIONS

BAYOU d'INDE (AREA B) / LOWER CANAL
 SEDIMENT REMEDIATION PROJECT

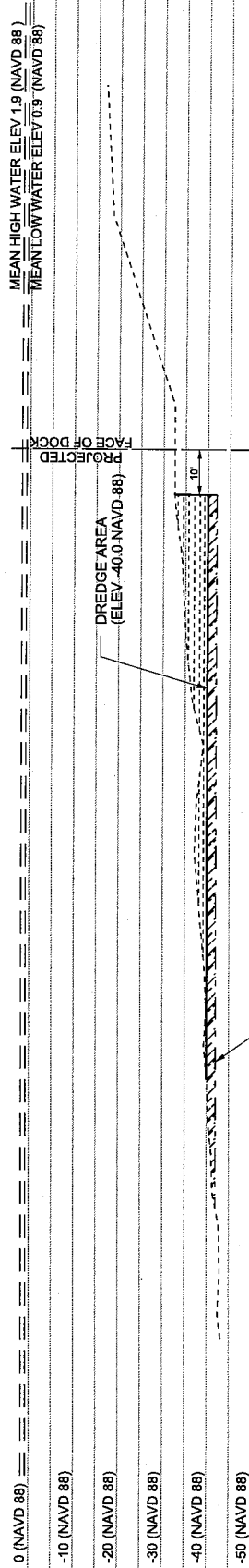
"A" DOCK



N
SECTION
HOR: 1" = 40'
VERT: 1" = 40'

FIGURE 6

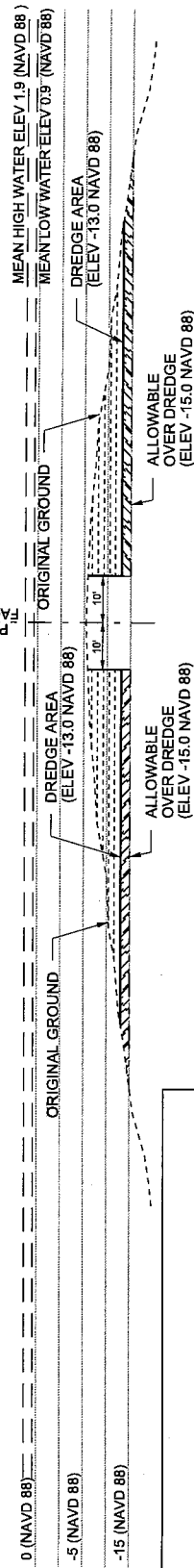
"C" DOCK



O
SECTION
HOR: 1" = 40'
VERT: 1" = 40'

FIGURE 6


"B" DOCK

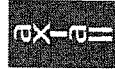


P
SECTION
HOR: 1" = 40'
VERT: 1" = 40'

FIGURE 15

LEGEND:

-  DREDGE AREA
-  ALLOWABLE OVER DREDGE

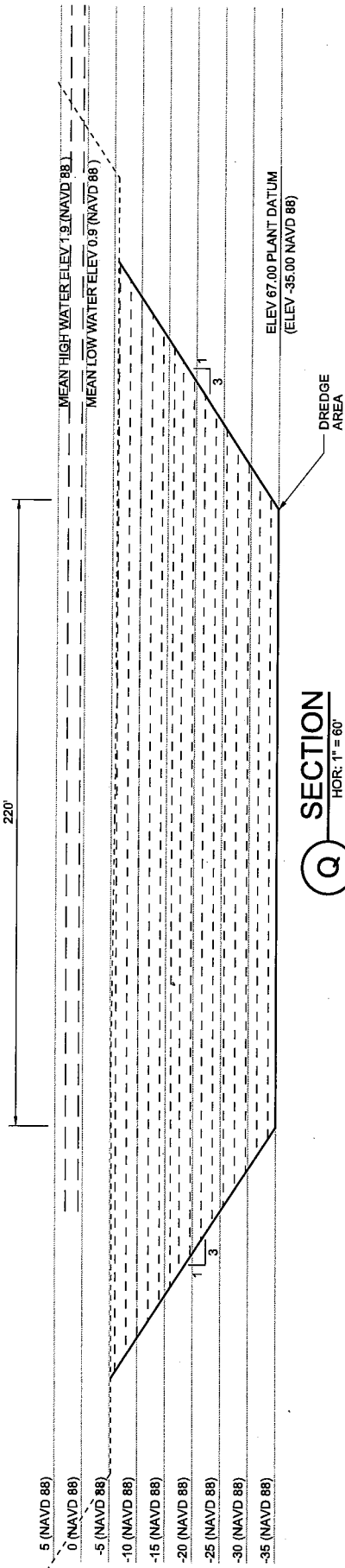


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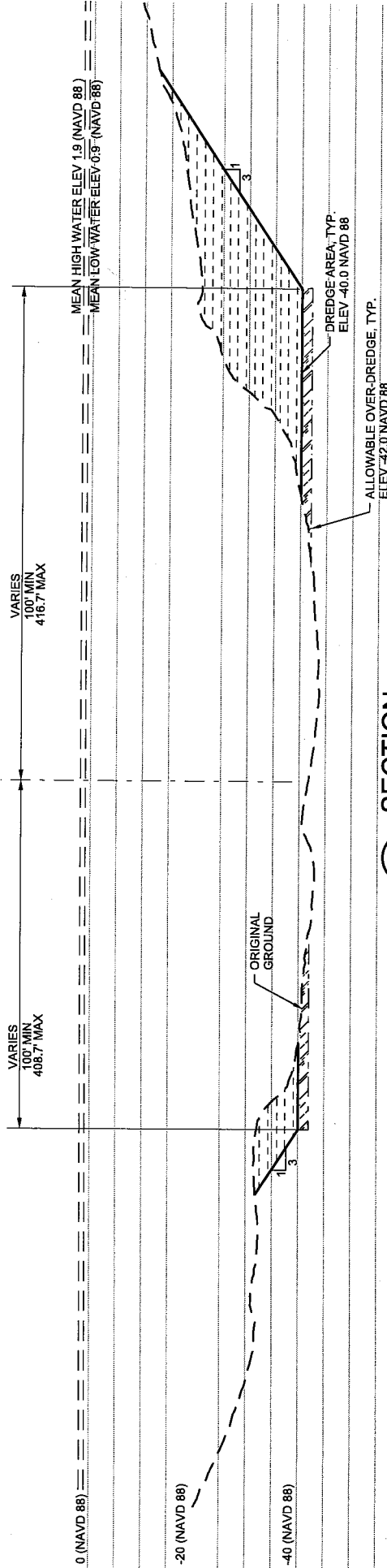
FIGURE 13
TYPICAL SECTIONS

BAYOU d'INDE (AREA B) / LOWER CANAL
SEDIMENT REMEDIATION PROJECT

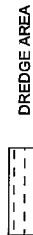
EAST COON ISLAND REACH



WEST COON ISLAND REACH



LEGEND:

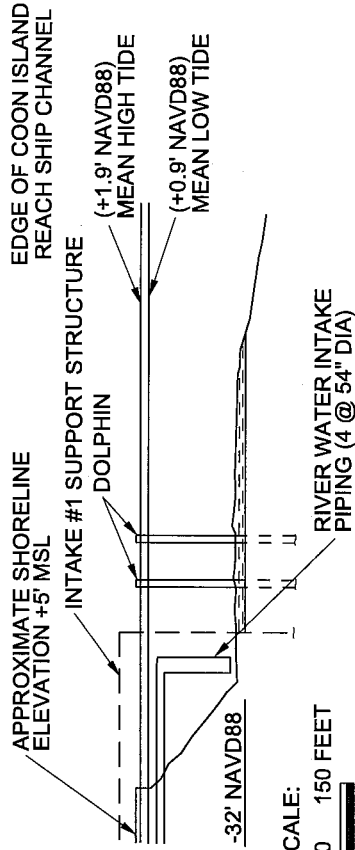


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FIGURE 14
TYPICAL SECTIONS

BAYOU d'INDE (AREA B) / LOWER CANAL
 SEDIMENT REMEDIATION PROJECT

RIVER WATER INTAKE STRUCTURE #1

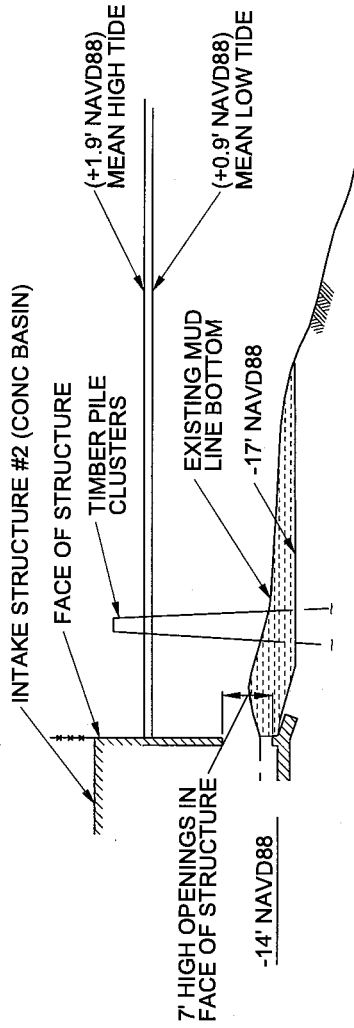


HORIZONTAL SCALE:
0 50 100 150 FEET

VERTICAL EXAGGERATION: 2X

SECTION S

RIVER WATER INTAKE STRUCTURE #2

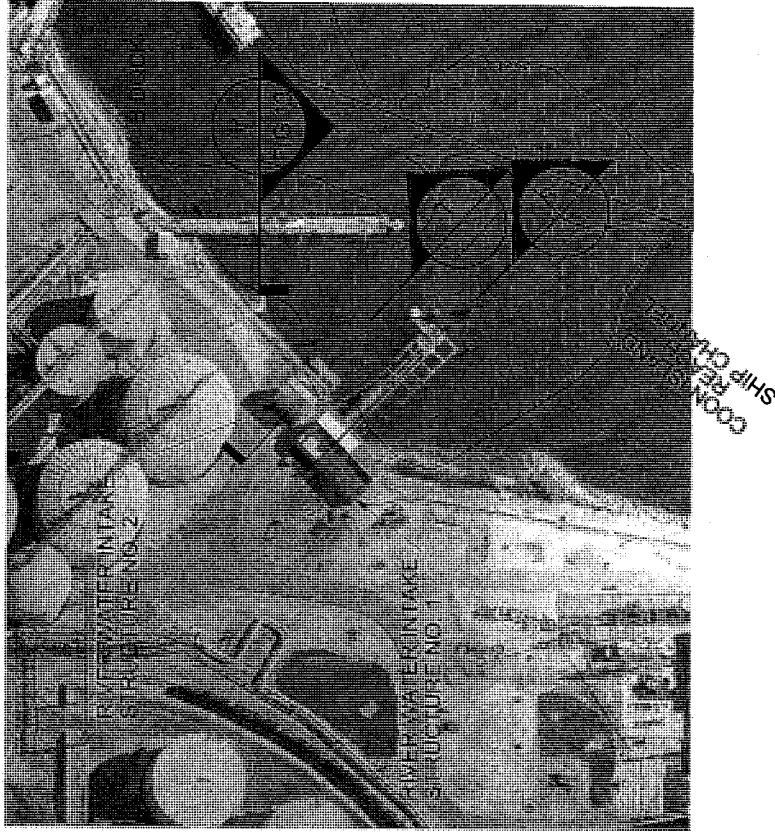


HORIZONTAL SCALE:
0 10 20 30 FEET

LEGEND:

DREDGE AREA

SECTION T




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FIGURE 15

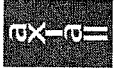
RIVER WATER INTAKE DREDGE AREA TYPICAL SECTION

BAYOU d'INDE (AREA B) / LOWER CANAL
SEDIMENT REMEDIATION PROJECT

LEGEND:



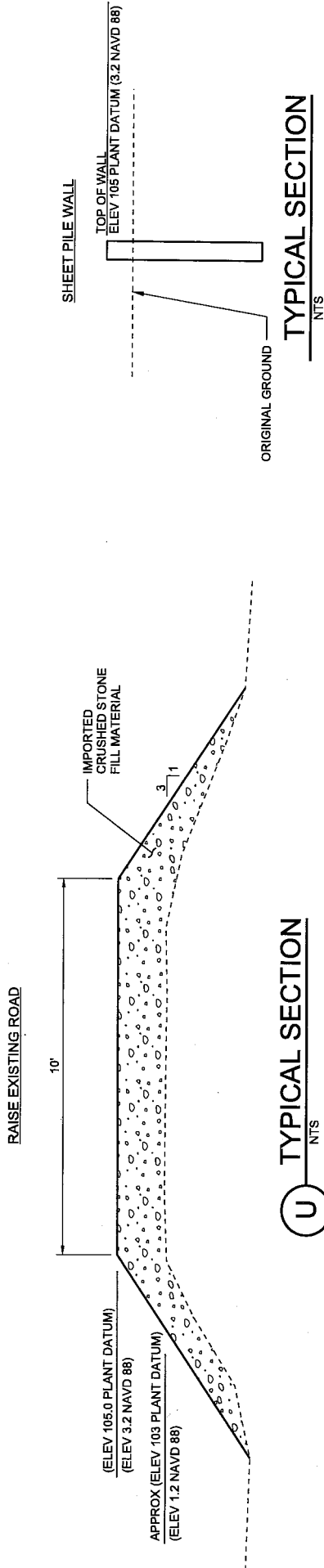
CRUSHED STONE FILL MATERIAL



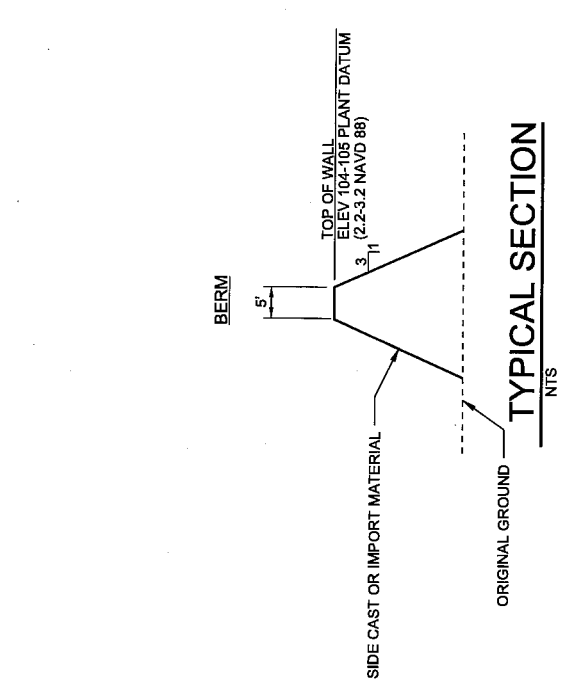
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FIGURE 16
TYPICAL SECTIONS

BAYOU d'INDE (AREA B) / LOWER CANAL
 SEDIMENT REMEDIATION PROJECT

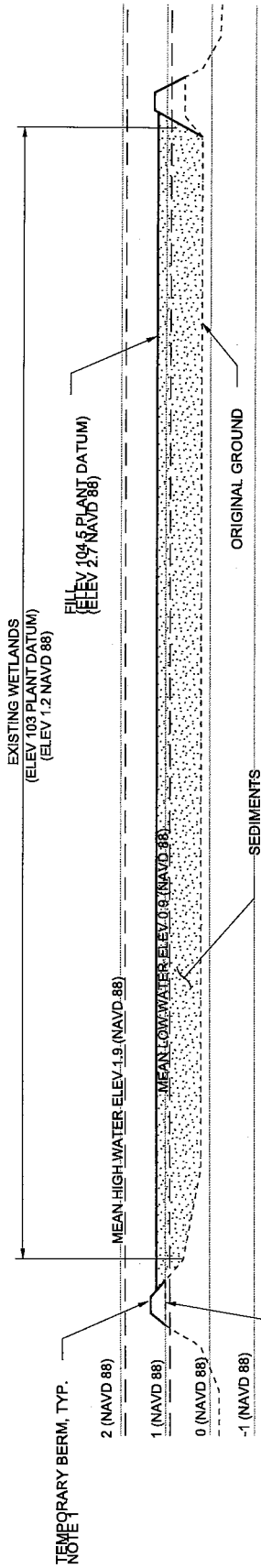


U TYPICAL SECTION
 NTS
 FIGURE 4 & 5



TYPICAL SECTION
 NTS

SMA-2



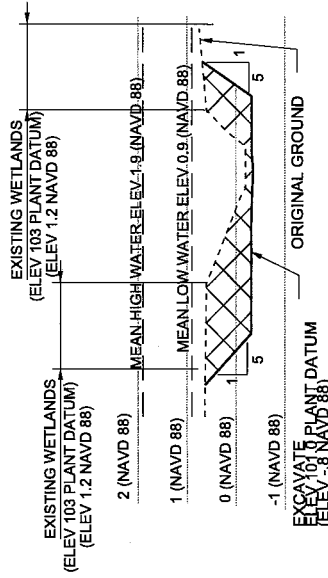
NOTE:
1. TEMPORARY BERM CONSTRUCTED FROM PULL-UP MATERIAL WITHIN SMA-2 AREA AS REQUIRED.

EXISTING BERM
(ELEV 1.04-1.05 PLANT DATUM, TYP.)

V SECTION
HOR: 1" = 80'
VERT: 1" = 8'

FIGURE 4

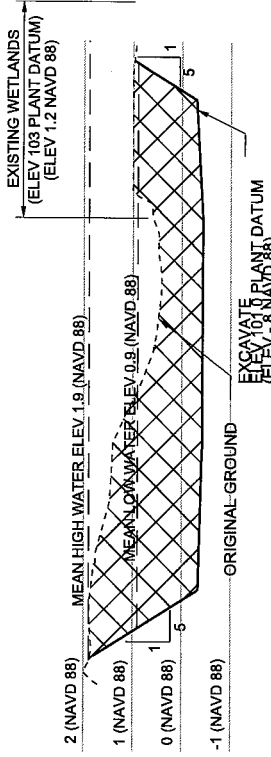
DRAINAGE CUT AT LOWER CANAL



W SECTION
HOR: 1" = 80'
VERT: 1" = 8'

FIGURE 5

DRAINAGE CUT AT BAYOU d'INDE



X SECTION
HOR: 1" = 80'
VERT: 1" = 8'

FIGURE 5

LEGEND:

- FILL
- EXCAVATION



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FIGURE 17
TYPICAL SECTIONS

BAYOU d'INDE (AREA B) / LOWER CANAL
SEDIMENT REMEDIATION PROJECT

ATTACHMENT B

Bayou d'Inde (Area B)/Lower Canal Sediment Remediation Project

21. Type(s) of Material Being Discharged and the Amount of Each Type

Project Element Fill Areas	Location	Material Type / Potential Source(s) /Sabine River Water Settling Basin (Mud Pond)	Estimated Quantity (cubic yards [cy])
<i>Lower Canal (LC)</i>	LC-1/LC-2	Earthen material/East Coon Island Reach/Sabine River Water Settling Basin (Mud Pond)/Axiall Docks A, B, and C/River Water Intake Structures	57,000 - 123,000
	LC-1/LC-2	Earthen material/Sabine River Water Clarification Unit	3,500 cy/year
	LC-3C	Earthen material/East Coon Island Reach Earthen material/ Bayou d'Inde from Station 60+00 to 101+87	28,000
	LC-3B	Earthen material/adjacent excavated area Earthen material/East Coon Island Reach	24,000
	LC-3A	Earthen material/East Coon Island Reach/Axiall Docks A, B, and C/River Water Intake Structures	24,000
<i>Lockport Marsh (LP)</i>	LP-1	Earthen material - Axiall Docks A, B, and C/River Water Intake Structures/West Coon Island Reach/East Coon Island Reach	155,000 – 395,000
	LP-2	Earthen material - Bayou d'Inde from Station 60+00 to -2+80/Barge Slip/West Coon Island Reach/East Coon Island Reach	130,000 – 223,000
	LP-3	Earthen material - Bayou d'Inde from Station 60+00 to 101+87/East Coon Island Reach	11,000
	LP-4	Earthen material - Bayou d'Inde from Station 60+00 to 101+87/East Coon Island Reach	13,500
<i>Fringe Marsh (FM)</i>	FM-1	Imported sand	12,000
	FM-2	Earthen material - Bayou d'Inde from Station 60+00 to 101+87	6,900
	FM-3	Earthen material - Bayou d'Inde from Station 60+00 to 101+87	10,300
<i>Sediment Management Area 2</i>	SMA-2	Earthen material - West Coon Island Reach	26,000

21. Type(s) of Material Being Discharged and the Amount of Each Type

Project Element Fill Areas	Location	Material Type / Potential Source(s) /Sabine River Water Settling Basin (Mud Pond)	Estimated Quantity (cubic yards [cy])
<i>Berms/Sheet Pile Walls</i>			
<i>Lower Canal</i>	Lower Canal 0+00	Sheet pile wall	200 feet long
	Lower Canal 15+00	Sheet pile wall or permanent - built up with adjacent excavations or imported material	320
	Lower Canal 32+00	Sheet pile wall	200 feet long
	Lower Canal South of Bypass Canal Backwater Area and Area South of South Closure	Temporary levee - built up with adjacent excavations or imported material or sheet pile wall	1,170
	Lower Canal 39+00 to End at Lockport Marsh East	Temporary levee built up with adjacent excavations or imported material or sheet pile wall	1,320 feet long
<i>Lockport Marsh</i>	Between LP-1 and LP-2	Sheet pile wall, levee, or temporary berm	800 feet long
<i>Fringe Marsh</i>	FM-1 at Lower Canal 4+00	Sheet Pile Wall	90 feet long
	FM-1 at Lower Canal 10+00	Sheet Pile Wall	50 feet long
	FM-1 at Lower Canal 0+00	Sheet Pile Wall	200 feet long
	FM-2	Temporary - built up with adjacent excavations	560
	FM-3	Temporary - built up with adjacent excavations	350
<i>Raise Existing Roads</i>	LP-2 perimeter	Imported Material - stone	10,500
	LP-2 interior	Imported Material - stone	9,000
	LP-1 perimeter	Imported Material - stone	3,500
	Lower Canal 15+00	Imported Material - stone	50
	Lower Canal 25+35	Imported Material - stone	50

TOTAL ESTIMATED FILL: 526,700 cy to 925,700 cy

ATTACHMENT C

22. Surface Area in Acres of Wetlands and Other Waters Filled

Project Element Fill Areas	Location	Wetlands Affected (Acres)	Fill Volume in Wetlands (Cubic Yards)	Open Waters (Affected Acres)	Fill Volume in Open Water (Cubic Yards)
Lower Canal (LC)	LC-1/LC-2	0-3.6	0-8,630	20.3-23.9	57,000-114,370
	LC-3A	0	0	4.4	24,000
	LC-3B	0.1	50	2.5	23,950
	LC-3C	0	0	4.4	28,000
Lockport Marsh (LP)	LP-1	0-0.4	0-990	74.1-74.5	155,000-394,010
	LP-2	0-0.3	0-700	38.9-39.2	130,000-222,300
	LP-3	0	0	6.1	11,000
	LP-4	0	0	7.9	13,500
Fringe Marsh (FM)	FM-1	0	0	10.7	12,000
	FM-2	0	0	4.3	6,900
	FM-3	0	0	6.4	10,300
Temporary Berm (Fill)	Between FM-1 and LC-3C	0.2	260	0	0
Temporary Berm (Excavation)	Between FM-1 and LC-3C	0.2	260	0	0
Berm Dividing LC-1/LC-2 and LC-3A	Between LC-1/LC-2 and LC-3A	0.1	50	0.8	2,250
FM-2 Temporary Berm (Fill)	FM-2	0.1	120	0	40
FM-2 Temporary Berm (Excavation)	FM-2	0.1	120	0	40
FM-3 Temporary Berm (Fill)	FM-3	0	0	0.1	70
FM-3 Temporary Berm (Excavation)	FM-3	0	0	0.1	70
Berm Dividing LP-2 and LP-1	LP-2 and LP-1	0	0	0.4	1,670
SMA-2 Temporary Berm	SMA-2	0.5	320	0	0

22. Surface Area in Acres of Wetlands and Other Waters Filled

Project Element Fill Areas	Location	Wetlands Affected (Acres)	Fill Volume in Wetlands (Cubic Yards)	Open Waters (Affected Acres)	Fill Volume in Open Water (Cubic Yards)
FM-1 Drainage excavation into Bayou d'Inde	FM-1	0.2	680	0.5	1,620
LC-3A Drainage Opening	LC-3A	0.2	765	0.4	680
Raise Existing Roads	LP-1	0	0	0	0
	LP-2	0	0	0	0
	Lower Canal 15+00	0	0	0	0
	Lower Canal 25+35	0	0	0	0
Sediment Management Area	SMA-2	7.4	26,000	0	0
TOTAL		9.1-13.4	28,625-38,945	182-187	478,090-866,770