

JOINT PUBLIC NOTICE

March 5, 2018

United States Army
Corps of Engineers
New Orleans District
Regulatory Branch, OD-SE
7400 Leake Avenue
New Orleans, Louisiana 70118

State of Louisiana
Department of Environmental Quality
Water Permits Division
Post Office Box 4313
Baton Rouge, Louisiana 70821-4313

Project Manager
Brad LaBorde
(504) 862-2225
Brad.LaBorde@usace.army.mil
Permit Application Number
MVN 2018-0204 EOO

Project Manager
Elizabeth Hill
(225) 219-3225

WQC Application Number
WQC 180227-02

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 USC 403); and/or [X] Section 404 of the Clean Water Act (86 Stat. 816; 33 USC 1344).

Application has also been made to the Louisiana Department of Environmental Quality, Water Quality Certifications, for a Water Quality Certification (WQC) in accordance with statutory authority contained in LRS30:2047 A(3), and provisions of Section 401 of the Clean Water Act (P.L.95-17).

Bohemia Spillway (“Mardi Gras Pass”) Closure – Phase 1 in Plaquemines Parish, Louisiana

Name of Applicant: Plaquemines Parish Government (PPG) % Newell Engineering, LLC, ATTN: Frank Newell, 700 Papworth Avenue, Suite 202, Metairie, Louisiana 70005.

Location of Work: On the left descending bank of the Mississippi River, at mile marker 43.5 above Head of Passes and adjacent to the Bohemia Control Structure in Plaquemines Parish, Louisiana, as shown on the enclosed drawings.

Latitude: 29.530278, Longitude: -89.729167

Hydrologic Unit Code: 08090100 – Lower Mississippi – New Orleans
08090203 – Eastern Louisiana Coastal

Character of Work: The applicant proposes to install and maintain 360 linear feet of steel sheet pile and 15,000 cubic yards of rock rip rap in order to halt channel scour in the Bohemia Spillway and water flow into Breton Sound. If constructed as proposed, approximately 0.75 acres of Waters of the U.S. would be impacted. Work for Phase 1 would include six soil borings/cone penetrometer test soundings and two water gauges. PPG maintains that Phase 1 will be followed by future phases to repair and rehabilitate the Bohemia Control Structure to restore flow and salinity control.

Preliminary review has determined that no wetlands would be impacted by construction and maintenance of the proposed closure; therefore, no compensatory mitigation has been proposed at this time. Compensatory mitigation could be considered later in the review if it's determined that construction of the proposed project would directly impact unavoidable jurisdictional wetland areas.

The comment period for the Department of the Army Permit 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 permit and/or this WQC request and must be mailed so as to be received before or by the last day of the comment period. Letters concerning the Corps of Engineers permit application must reference the applicant's name and the Permit Application Number, and be mailed to the Corps of Engineers at the address above, **ATTENTION: REGULATORY BRANCH.** **Individuals or parties may request an extension of time in which to comment on the proposed work by writing or e-mailing the Corps of Engineers 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.** Similar letters concerning the Water Quality Certification must reference the applicant's name and the WQC Application number and be mailed to the Louisiana Department of Environmental Quality at the address above.

The application for this proposed project is on file with the Louisiana Department of Environmental Quality and may be examined during 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 those are 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.

The New Orleans District is unaware of properties listed on the National Register of Historic Places near the proposed work. The possibility exists that the proposed work may damage or destroy presently unknown archeological, scientific, prehistorical, 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.

The New Orleans District has determined that the proposed project is located within waters known to be utilized by the West Indian manatee (*Trichechus manatus*) and pallid sturgeon (*Scaphirhynchus albus*). Based on the Standard Local Operating Procedure for Endangered Species of Louisiana (SLOPES), dated October 22, 2014, between the U.S. Army Corps of Engineers, New Orleans and U.S. Fish and Wildlife Service, Ecological Services Office (USFWS), it's been determined that the proposed activity "is not likely to adversely affect" the West Indian manatee. Further coordination with USFWS is required for an effects determination concerning the pallid sturgeon.

Our initial finding is that the proposed work would neither affect any species listed as endangered by the U.S. Department of Commerce, nor affect any habitat designated as critical to the survival and recovery of those 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 **N/A** 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 Environmental Protection Agency. Also, a certification that the proposed activity will not violate applicable water quality standards will be required from the Department of Environmental Quality, Water Quality Certifications, 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.

The applicant has certified that the proposed activity described in the application complies with and will be conducted in a manner that is consistent with the Louisiana Coastal Resources Program. The Department of the Army permit will not be issued unless the applicant received approval or a waiver of the Coastal Use Permit by the Department of Natural Resources.

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.

Michael V. Farabee
Chief, Eastern Evaluation Section

Enclosure

REHABILITATION OF BOHEMIA SPILLWAY SALINITY CONTROL STRUCTURE PHASE 1

PLAQUEMINES PARISH, LOUISIANA

PLAQUEMINES PARISH GOVERNMENT

AMOS CORMIER, III
PARISH PRESIDENT

COUNCIL MEMBERS:

- DISTRICT 1 - JOHN L. BARTHELEMY, JR.
- DISTRICT 2 - WILLIAM "BEAU" BLACK
- DISTRICT 3 - KIRK M. LEPINE
- DISTRICT 4 - IRVIN JUNEAU, JR.
- DISTRICT 5 - BENEDICT "BENNY" ROUSSELLE
- DISTRICT 6 - CHARLIE BURT
- DISTRICT 7 - AUDREY T. SALVANT
- DISTRICT 8 - JEFF E. EDGECOMBE
- DISTRICT 9 - NICOLE SMITH WILLIAMS

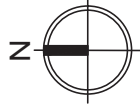


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VICINITY MAP
SCALE: 1" = 2000'



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REHABILITATION OF BOHEMIA SPILLWAY
 SALINITY CONTROL STRUCTURE
 PHASE 1

SUMMARY OF ESTIMATED QUANTITIES

BASE BID

STRUCTURE	ITEM	UNIT	QUANTITY
1. EASTERN CLOSURE			
	CLOSURE MATERIAL	CY	15000
	STEEL SHEET PILE (OPTIONAL)	LF	360
	SOIL BORING/CPT	EA	4
	WATER GAUGE	EA	2

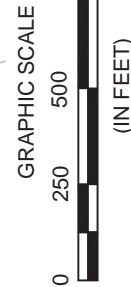
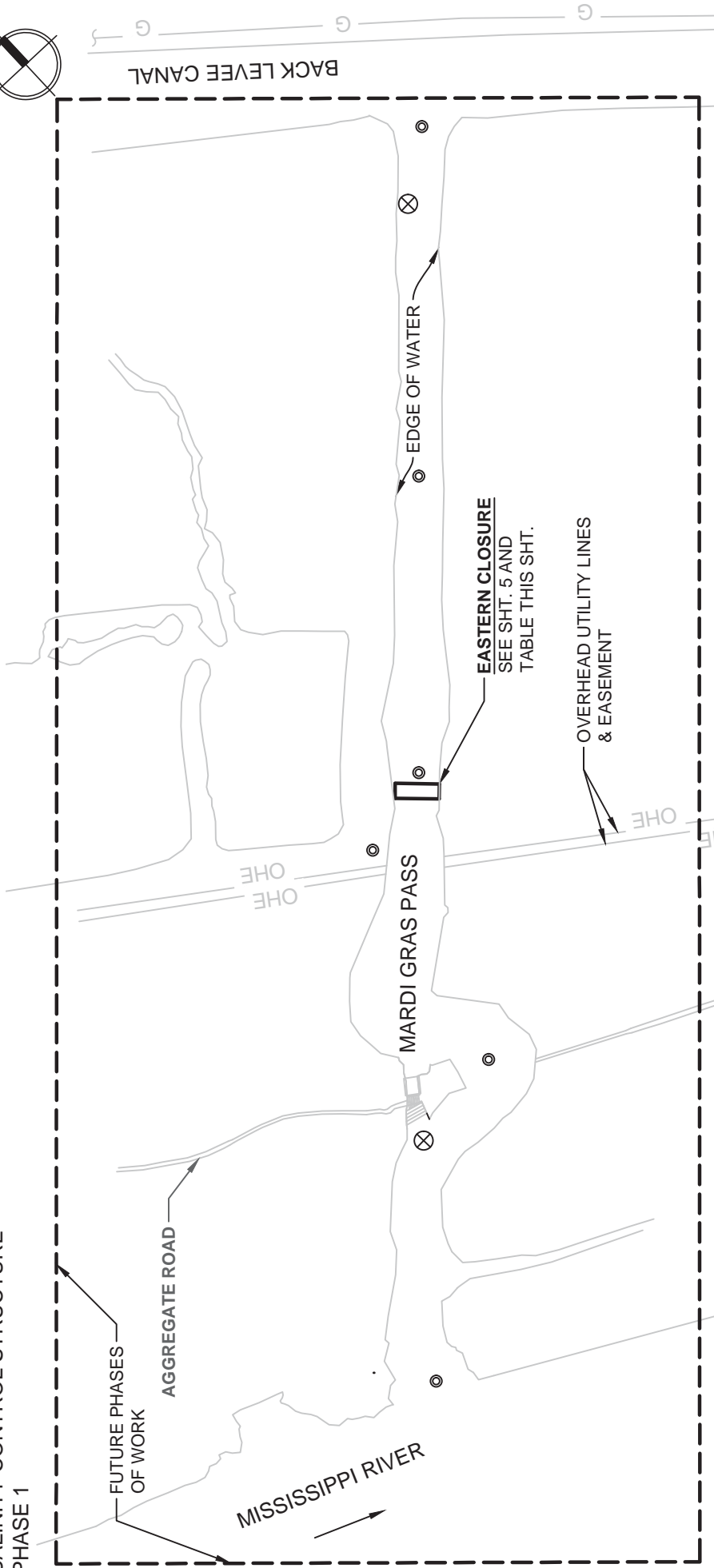
LEGEND

- CY DENOTES CUBIC YARD
 LF DENOTES LINEAR FOOT
 EA DENOTES EACH

NOTES:

- 1.) ALL CLOSURE MATERIAL
 QUANTITIES INCLUDE ESTIMATED
 INCREASE DUE TO SETTLEMENT
 AND CHANNEL GROWTH
- 2.) CLOSURE MATERIAL IS A MIXTURE
 OF LIMESTONE AND RIPRAP

REHABILITATION OF BOHEMIA SPILLWAY
SALINITY CONTROL STRUCTURE
PHASE 1



PLAN OF IMPROVEMENTS
SCALE: 1" = 500'

LEGEND

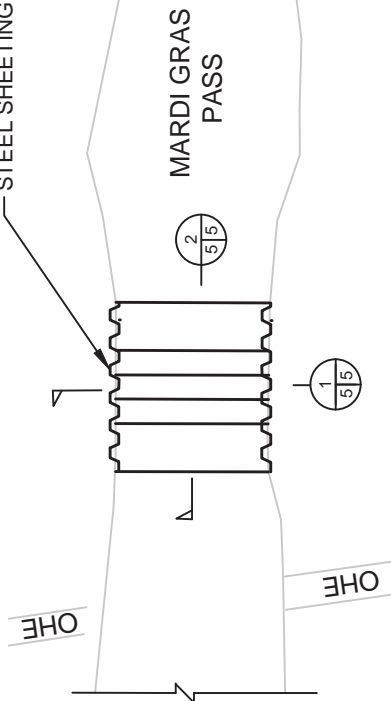
	DENOTES CLOSURE
	DENOTES SOIL BORING/CPT
	DENOTES WATER GAUGE

- NOTES:
- 1.) WATER LEVELS VARY WITH TIDES AND RIVER LEVELS
 - 2.) MEAN HIGH WATER EL.= 7.5 NAVD
 - 3.) MEAN LOW WATER EL.= 0.0 NAVD
 - 4.) MAXIMUM FULLY LOADED DRAFT OF VESSELS USED FOR CONSTRUCTION IS 10'.

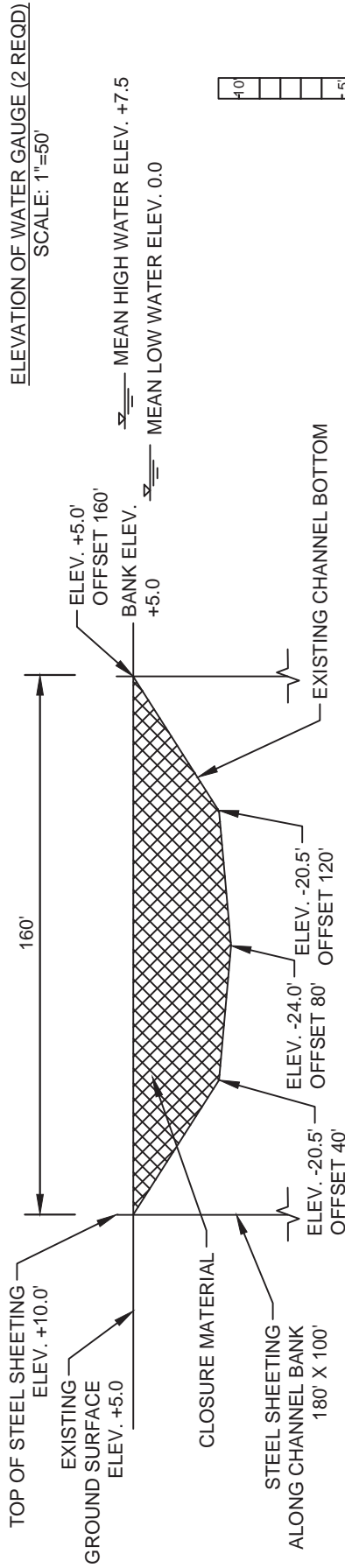
ITEM	LATITUDE	LONGITUDE
CLOSURE	29°31'53.48"	89°43'29.15"
WESTERN GAUGE	29°31'43.43"	89°43'39.19"
EASTERN GAUGE	29°32'05.16"	89°43'14.14"
SOIL BORING/CPT	29°31'39.06"	89°43'45.64"
SOIL BORING/CPT	29°31'44.81"	89°43'35.07"
SOIL BORING/CPT	29°31'54.66"	89°43'28.57"
SOIL BORING/CPT	29°31'59.77"	89°43'21.91"
SOIL BORING/CPT	29°32'07.56"	89°43'13.28"
SOIL BORING/CPT	29°31'51.93"	89°43'33.14"

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REHABILITATION OF BOHEMIA SPILLWAY
SALINITY CONTROL STRUCTURE
PHASE 1

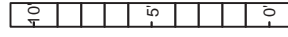


PLAN EASTERN CLOSURE PHASE 1
(BASE BID)
SCALE: 1" = 200'

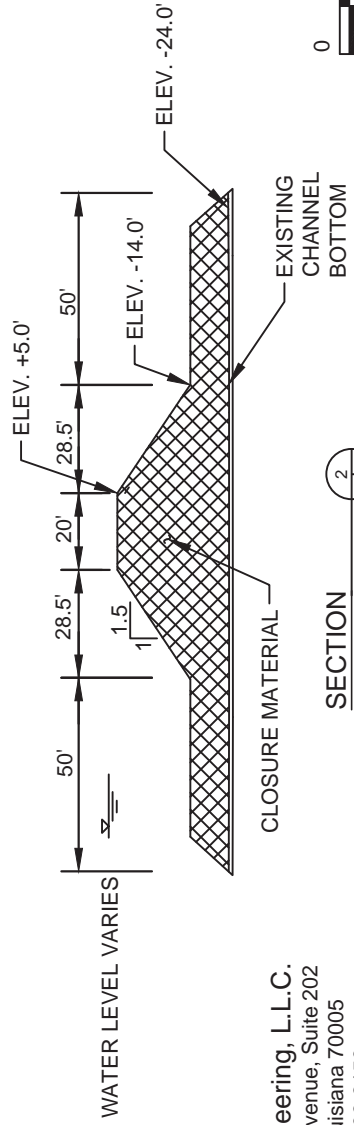


ELEVATION OF WATER GAUGE (2 REQD)
SCALE: 1"=50'

MEAN HIGH WATER ELEV. +7.5
MEAN LOW WATER ELEV. 0.0



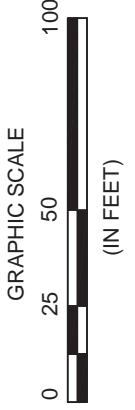
SECTION 1/5
SCALE: 1" = 50'



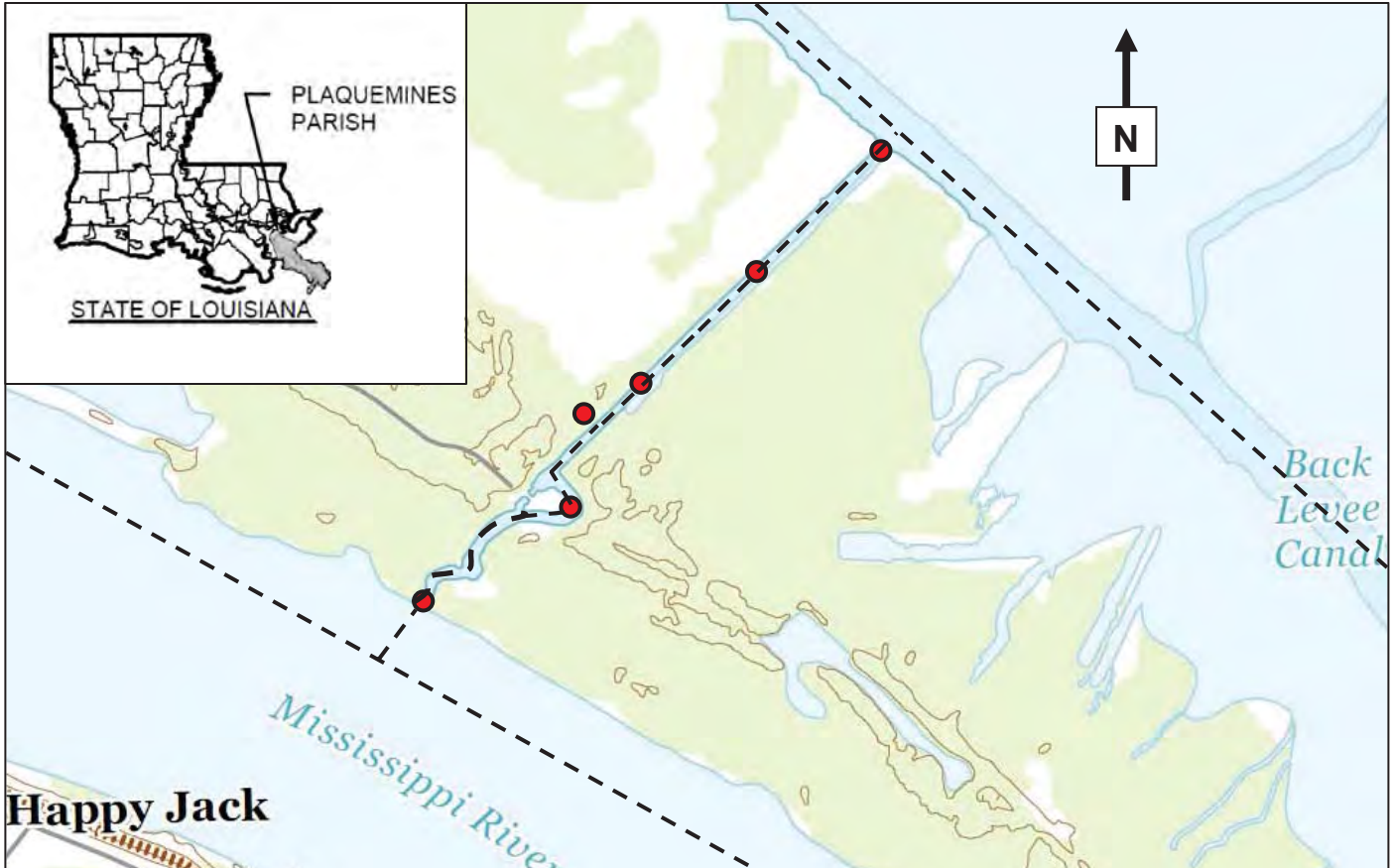
WATER GAUGE DETAIL
N.T.S.

NOTE: INCREMENTS REPRESENT FEET.

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EASTERN CLOSURE
PLAN AND SECTIONS
JANUARY 16, 2018
SHEET 5 OF 5



NOTES

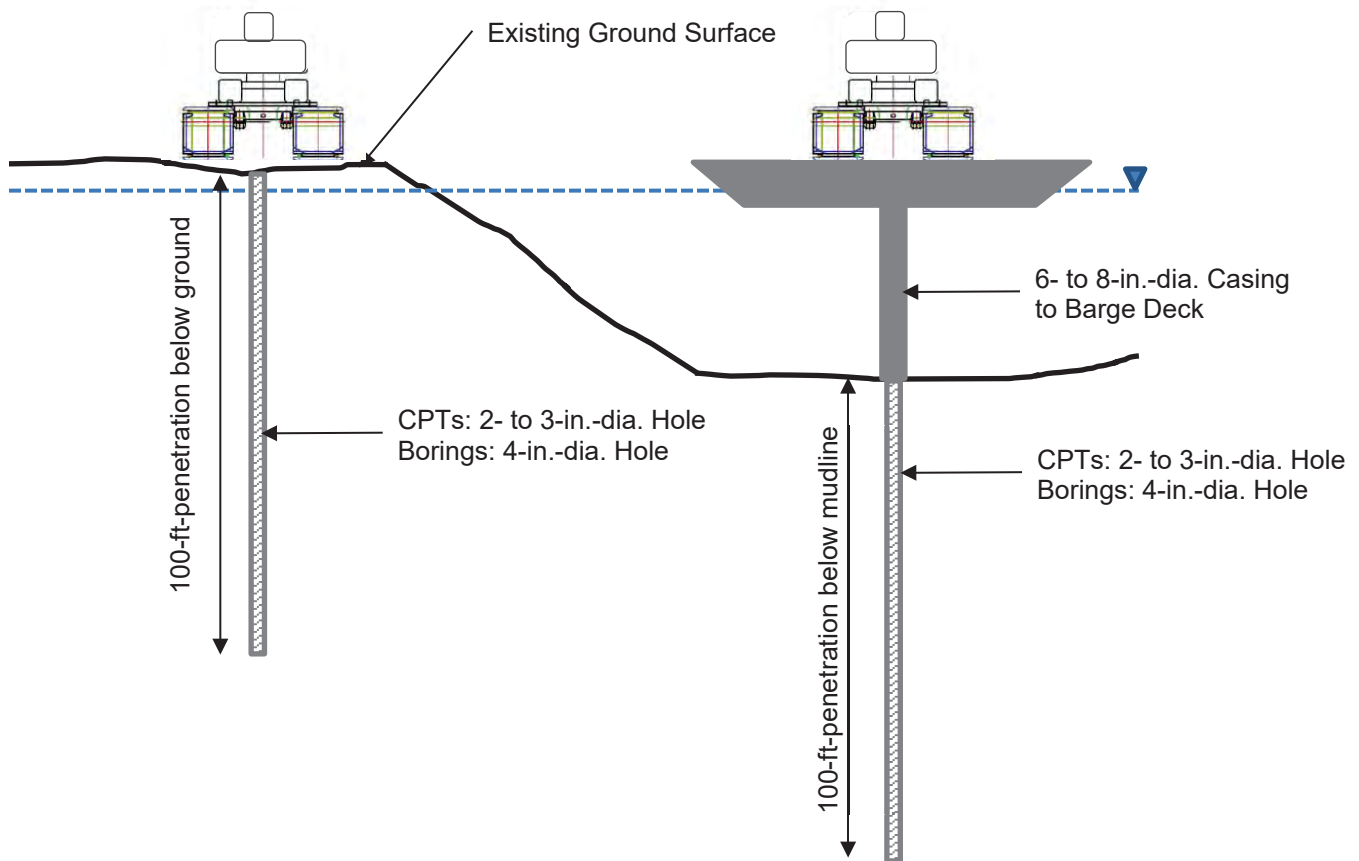
1. USGS Topographic Map: Happy Jack 7.5-Minute Quadrangle Map, 2015.
2. Locations of all features are approximate.
3. Exploration personnel will perform over-water work using barge-mounted equipment and a support boat for crew transport.
4. Crew and equipment transport will occur from the launch site to the work location using the Back Levee Canal and/or the Mississippi River as appropriate. Overland travel will be limited.
5. Historical data and other publically available information suggests the Back Levee Canal generally has a water depth greater than about 10 ft and Mardi Gras Pass has a water depth greater than about 15 feet. Along the left descending bank of the Mississippi River between MP 43 and MP 44, the water depth along the bankline should be about 5 ft, increasing to at least 17 ft over a short distance, deepening to at least 50 ft and, increasing to more than 100 ft near the center of the Mississippi River.

LEGEND

- Access Route (Open Water and Existing Mardi Gras Pass; Route to Site Depends on Dock Used)
 - Boring or CPT Location
- 0 600 1200 2400 3600
Approximate Scale, feet

SITE PLAN AND PROPOSED EXPLORATION HOLE LOCATIONS

Mardi Gras Pass Area
Plaquemines Parish, Louisiana



Hole Type	Number of Holes	Nominal Hole Diameter		Hole Depth, ft	Total Hole Volume, cu yd
		Inches	Feet		
CPT Sounding	≤ 6	3	0.25	100	1.09
Soil Boring	≤ 6	4	0.33	100	1.90

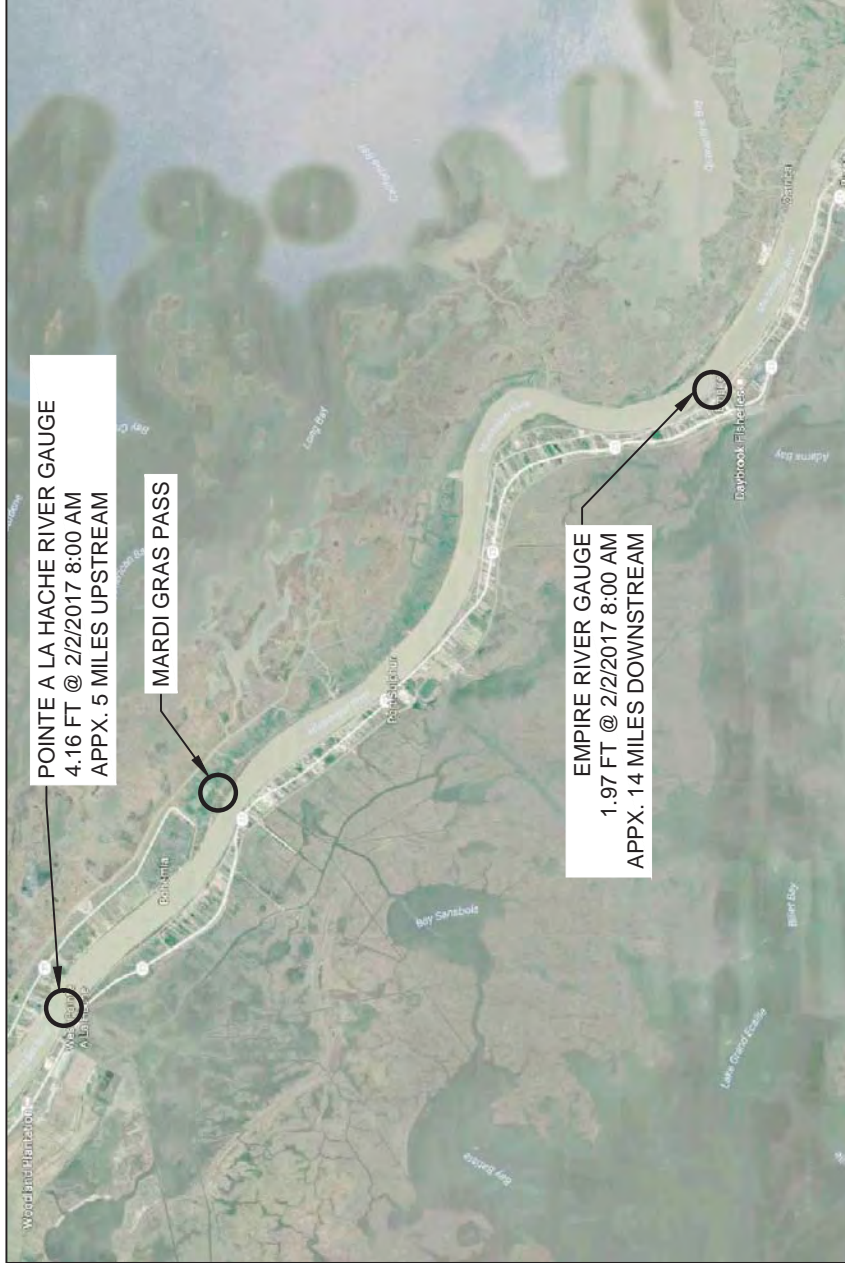
NOTES

1. See Plate 1 for proposed and approximate exploration hole locations.
2. Cone penetrometer test soundings (CPTs) are accomplished by pushing an instrumented rod into the ground; soils are displaced and no cuttings are generated.
3. Soil borings will be advanced using wet-rotary drilling methods. Soil cuttings will be discharged at the mudline.
4. To comply with Louisiana law, LA One Call (1-800-272-3020) will be contacted at least 48 hr before starting subsurface exploration activities.
5. Boreholes and CPT sounding holes will be sealed following State of Louisiana guidelines by using a cement-bentonite grout.

EXPLORATION HOLE DETAILS

Mardi Gras Pass Area
 Plaquemines Parish, Louisiana

REHABILITATION OF BOHEMIA SPILLWAY
 SALINITY CONTROL STRUCTURE
 PLAQUEMINES PARISH
 PHASE 1



VICINITY MAP
 SCALE: 1" = 20000'



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FIGURE 1
 VICINITY MAP
 JANUARY 16, 2018

REHABILITATION OF BOHEMIA SPILLWAY
SALINITY CONTROL STRUCTURE
PLAQUEMINES PARISH
PHASE 1



BOHEMIA SPILLWAY
SALINITY CONTROL STRUCTURE
AERIAL VIEW

SCALE: 1" = 600'

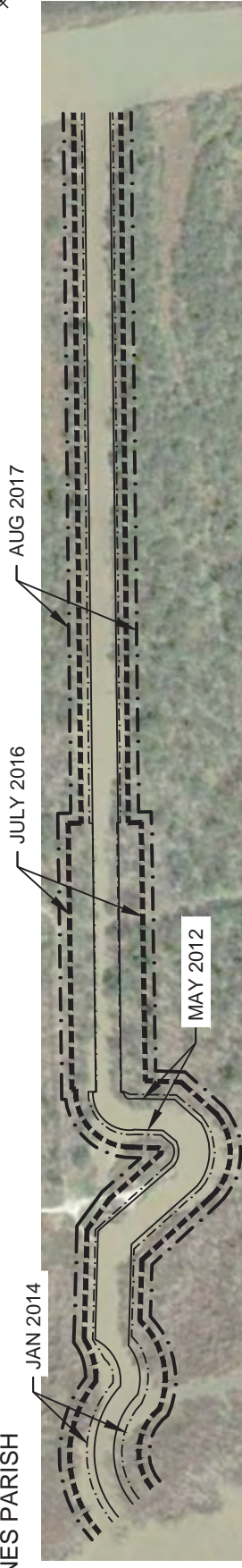
GRAPHIC SCALE



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FIGURE 2
AERIAL VIEW
JANUARY 16, 2018

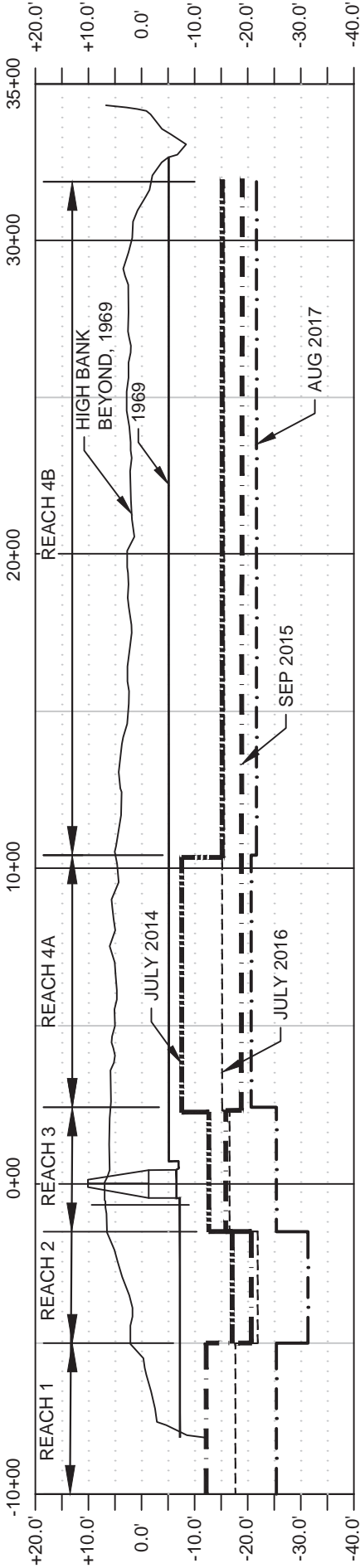
REHABILITATION OF BOHEMIA SPILLWAY
 SALINITY CONTROL STRUCTURE
 PLAQUEMINES PARISH
 PHASE 1



IMAGERY DATE: JAN 2015

PLAN

SCALE 1" = 500'



PROFILE

SCALE
 1" = 30' V
 1" = 500' H

GRAPHIC SCALE



NOTE: CHANNEL WIDTH AND AVERAGE BOTTOM ELEVATIONS ARE BASED ON LAKE PONTCHARTRAIN BASIN FOUNDATION PUBLISHED SURVEYS

PLAN LEGEND

- MAY 2012 EDGE OF WATER
- - - JAN 2014 EDGE OF WATER
- JULY 2016 EDGE OF WATER
- AUG 2017 EDGE OF WATER

PROFILE LEGEND

- 1969 CHANNEL BOTTOM
- JULY 2014 CHANNEL BOTTOM
- SEP 2015 CHANNEL BOTTOM
- JULY 2016 CHANNEL BOTTOM
- AUG 2017 CHANNEL BOTTOM

MARDI GRASS PASS AVERAGE CHANNEL WIDTHS (FT)

	MAY 2012	JAN 2013	JAN 2014	SEP 2015	JULY 2016	AUG 2017
REACH 1	56.2	73.6	102.7	137.6	201.1	245.6
REACH 2	98.7	102.0	113.7	150.2	162.8	181.8
REACH 3	90.3	93.9	117.5	140.7	193.3	212.4
REACH 4A	74.5	72.6	71.2	138.8	212.9	227.5
REACH 4B	74.5	72.6	90.6	110.9	137.7	169.0

MARDI GRASS PASS AVERAGE BOTTOM ELEVATIONS

	JULY 2014	SEP 2015	JULY 2016	AUG 2017
REACH 1	NO DATA	-12.2	-17.7	-25.4
REACH 2	-17.1	-20.7	-21.9	-31.4
REACH 3	-12.7	-15.9	-16.6	-26.6
REACH 4A	-7.6	-18.8	-15.2	-20.2
REACH 4B	-15.2	-19.0	-15.6	-22.0

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HISTORIC CHANNEL WIDTH AND DEPTH PROFILE

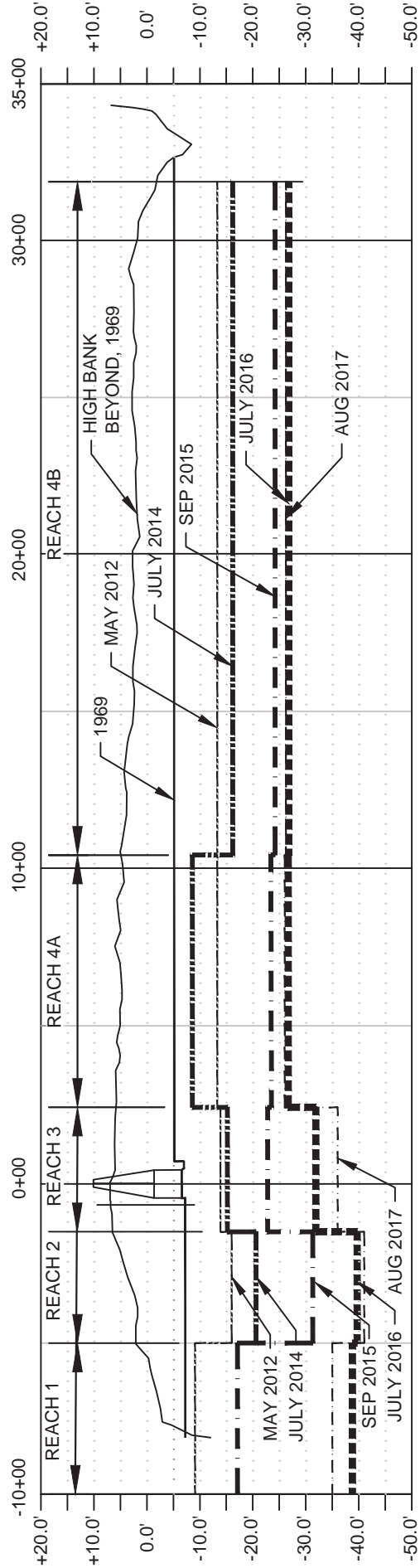
MARDI GRASS PASS

FIGURE 3
 HISTORIC CHANNEL WIDTH
 AND DEPTH PROFILE
 MARDI GRASS PASS
 JANUARY 16, 2018

REHABILITATION OF BOHEMIA SPILLWAY
 SALINITY CONTROL STRUCTURE
 PLAQUEMINES PARISH
 PHASE 1

LEGEND

—	1969
- - -	MAY 2012
- . - . -	JULY 2014
- - - - -	SEP 2015
- - - - -	JULY 2016
- - - - -	AUG 2017



MARDI GRAS PASS HISTORIC
 THALWEG DEPTH
 SCALE
 1" = 30' V
 1" = 500' H

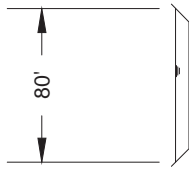
MARDI GRAS PASS AVERAGE THALWEG DEPTHS						
	MAY 2012	JULY 2014	SEP 2015	JULY 2016	AUG 2017	
REACH 1	6.8	NO DATA	17.1	38.8	35.4	
REACH 2	14.2	20.6	31.3	39.7	42.2	
REACH 3	12.1	15.2	22.8	31.9	35.8	
REACH 4A	11.8	8.6	23.4	26.7	26.4	
REACH 4B	11.8	16.2	24.2	26.8	26.5	

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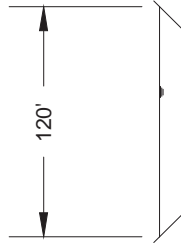
FIGURE 4
 HISTORIC THALWAG DEPTH
 MARDI GRAS PASS
 JANUARY 16, 2018

SOURCE: LAKE PONTCHARTRAIN BASIN FOUNDATION

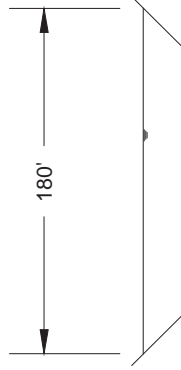
REHABILITATION OF BOHEMIA SPILLWAY
 SALINITY CONTROL STRUCTURE
 PLAQUEMINES PARISH
 PHASE 1



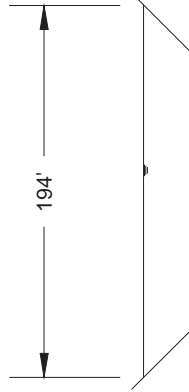
INITIAL CONDITIONS DEPTH = 7'
 SCALE: 1" = 100'



2014 CONDITIONS DEPTH = 12'
 SCALE: 1" = 100'



2016 CONDITIONS DEPTH = 20'
 SCALE: 1" = 100'

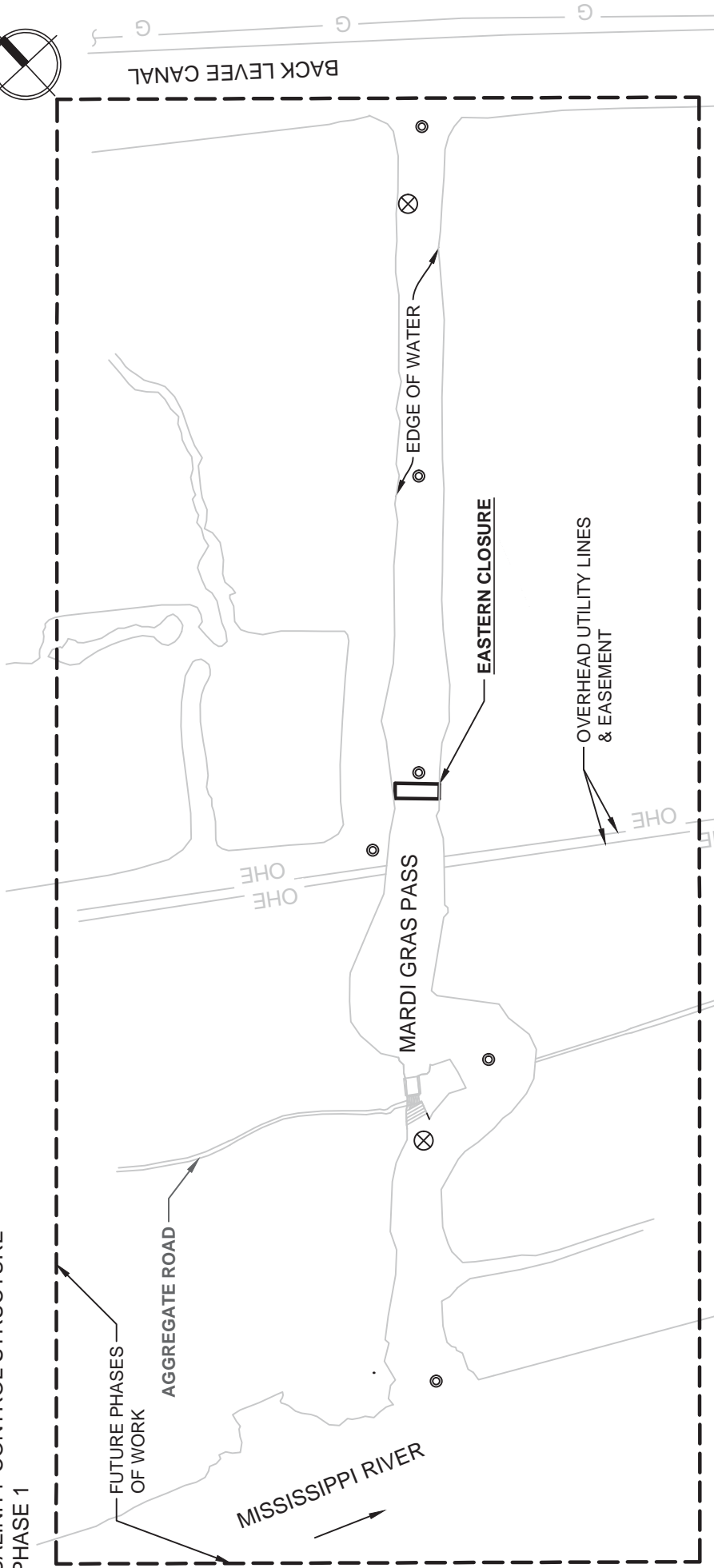


2017 CONDITIONS DEPTH = 25'
 SCALE: 1" = 100'

Initial Conditions				2014 Conditions				2016 Conditions				2017 Conditions					
ΔH (ft)	Area (ft2)	Slope (ft/ft)	Hydraulic Radius (ft)	Velocity (ft/s)	Flow, Q (cfs)	ΔH (ft)	Area (ft2)	Slope (ft/ft)	Hydraulic Radius (ft)	Velocity (ft/s)	Flow, Q (cfs)	ΔH (ft)	Area (ft2)	Slope (ft/ft)	Hydraulic Radius (ft)	Velocity (ft/s)	Flow, Q (cfs)
1	511	0.000238	5.942	1.676	856.48	1	1296	0.000238	9.969	2.367	3067.10	1	3200	0.000238	16.327	3.288	10521.92
2	511	0.000476	5.942	2.370	1211.25	2	1296	0.000476	9.969	3.347	4337.54	2	3200	0.000476	16.327	4.650	14880.24
3	511	0.000714	5.942	2.903	1483.47	3	1296	0.000714	9.969	4.099	5312.38	3	3200	0.000714	16.327	5.695	18224.5
4	511	0.000952	5.942	3.352	1712.96	4	1296	0.000952	9.969	4.733	6134.21	4	3200	0.000952	16.327	6.576	21043.84
5	511	0.00119	5.942	3.748	1915.15	5	1296	0.00119	9.969	5.292	6858.25	5	3200	0.00119	16.327	7.352	23527.73
6	511	0.001429	5.942	4.106	2097.94	6	1296	0.001429	9.969	5.797	7512.84	6	3200	0.001429	16.327	8.054	25773.34
7	511	0.001667	5.942	4.435	2266.04	7	1296	0.001667	9.969	6.261	8114.80	7	3200	0.001667	16.327	8.699	27838.39

NOTE: CHANNEL FLOWS AND VELOCITIES WERE COMPUTED USING MANNING'S EQUATION WITH A CHANNEL LENGTH OF 4200FT AND ROUGHNESS COEFFICIENT OF 0.045.

REHABILITATION OF BOHEMIA SPILLWAY
SALINITY CONTROL STRUCTURE
PHASE 1



PLAN OF IMPROVEMENTS
SCALE: 1" = 500'



NOTES:

- 1.) WATER LEVELS VARY WITH TIDES AND RIVER LEVELS
- 2.) MEAN HIGH WATER EL.= 7.5 NAVD
- 3.) MEAN LOW WATER EL.= 0.0 NAVD
- 4.) MAXIMUM FULLY LOADED DRAFT OF VESSELS USED FOR CONSTRUCTION IS 10'.

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LEGEND

- DENOTES CLOSURE
- DENOTES SOIL BORING/CPT
- DENOTES WATER GAUGE

ITEM	LATITUDE	LONGITUDE
CLOSURE	29°31'53.48"	89°43'29.15"
WESTERN GAUGE	29°31'43.43"	89°43'39.19"
EASTERN GAUGE	29°32'05.16"	89°43'14.14"
SOIL BORING/CPT	29°31'39.06"	89°43'45.64"
SOIL BORING/CPT	29°31'44.81"	89°43'35.07"
SOIL BORING/CPT	29°31'54.66"	89°43'28.57"
SOIL BORING/CPT	29°31'59.77"	89°43'21.91"
SOIL BORING/CPT	29°32'07.56"	89°43'13.28"
SOIL BORING/CPT	29°31'51.93"	89°43'33.14"

FIGURE 6
PLAN OF IMPROVEMENTS
MARDI GRAS PASS
JANUARY 16, 2018