

Appendix C
Support Documentation and Agency
Consultation Letters
(Permits and Web Results)

United States Department of Agriculture



Natural Resources Conservation Service
3737 Government Street
Alexandria, LA 71302

(318) 473-7751
Fax: (318) 473-7626

August 7, 2013

Holly Fonseca
Grants Officer
hfonseca@stcharlesgov.net
St. Charles Parish Grants Office
P.O. Box 302
Hahnville, Louisiana 70057

RE: Application for Hazard Mitigation Grant Program
Magnolia Ridge Pump Station
West Bank Hurricane Protection Levee
St. Charles Parish, Louisiana

Dear Ms. Fonseca:

I have reviewed the above referenced project for potential requirements of the Farmland Protection Policy Act (FPPA) and potential impact to Natural Resource Conservation Service projects in the immediate vicinity.

Projects are subject to FPPA requirements if they may irreversibly convert farmland (directly or indirectly) to nonagricultural use and are completed by a federal agency or with assistance from a federal agency. For the purpose of FPPA, farmland includes prime farmland, unique farmland, and land of statewide or local importance. Farmland subject to FPPA requirements can be forest land, pastureland, cropland, or other land, but not water or urban built-up land.

The preliminary project description submitted with your request indicates that the proposed project will not involve any relocation and will not impact prime farmland and therefore is exempt from the rules and regulations of the Farmland Protection Policy Act (FPPA) - Subtitle I of Title XV, Section 1539-1549. Furthermore, we do not predict impacts to NRCS work in the vicinity.

For specific information about the soils found in the project area, please visit our Web Soil Survey at the following location: <http://websoilsurvey.nrcs.usda.gov/>

Please direct all future correspondence to me at the address shown above.

Respectfully,

A handwritten signature in blue ink that reads "Sarah Haymaker".

Sarah Haymaker
State Conservationist

Helping People Help the Land

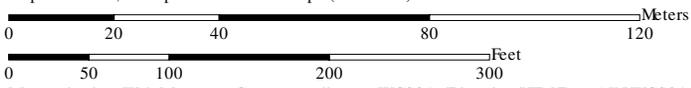
An Equal Opportunity Provider and Employer



Soil Map—St. Charles Parish, Louisiana
(Magnolia Ridge Pump Station)



Map Scale: 1:1,430 if printed on A landscape (11" x 8.5") sheet.



Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 15N WGS84



Soil Map—St. Charles Parish, Louisiana
(Magnolia Ridge Pump Station)

MAP LEGEND

Area of Interest (AOI)			Spoil Area
	Area of Interest (AOI)		Stony Spot
Soils			Very Stony Spot
	Soil Map Unit Polygons		Wet Spot
	Soil Map Unit Lines		Other
	Soil Map Unit Points		Special Line Features
Special Point Features		Water Features	
	Blowout		Streams and Canals
	Borrow Pit	Transportation	
	Clay Spot		Rails
	Closed Depression		Interstate Highways
	Gravel Pit		US Routes
	Gravelly Spot		Major Roads
	Landfill		Local Roads
	Lava Flow	Background	
	Marsh or swamp		Aerial Photography
	Mine or Quarry		
	Miscellaneous Water		
	Perennial Water		
	Rock Outcrop		
	Saline Spot		
	Sandy Spot		
	Severely Eroded Spot		
	Sinkhole		
	Slide or Slip		
	Sodic Spot		

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL: <http://websoilssurvey.nrcs.usda.gov>
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: St. Charles Parish, Louisiana
Survey Area Data: Version 12, Sep 28, 2015

Soilmap units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Mar 29, 2010—Mar 31, 2010

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

St. Charles Parish, Louisiana (LA089)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
BB	Barbary muck, 0 to 1 percent slopes, frequently flooded	2.6	34.9%
Cn	Cancienne silty clay loam, frequently flooded	4.8	65.1%
Totals for Area of Interest		7.4	100.0%

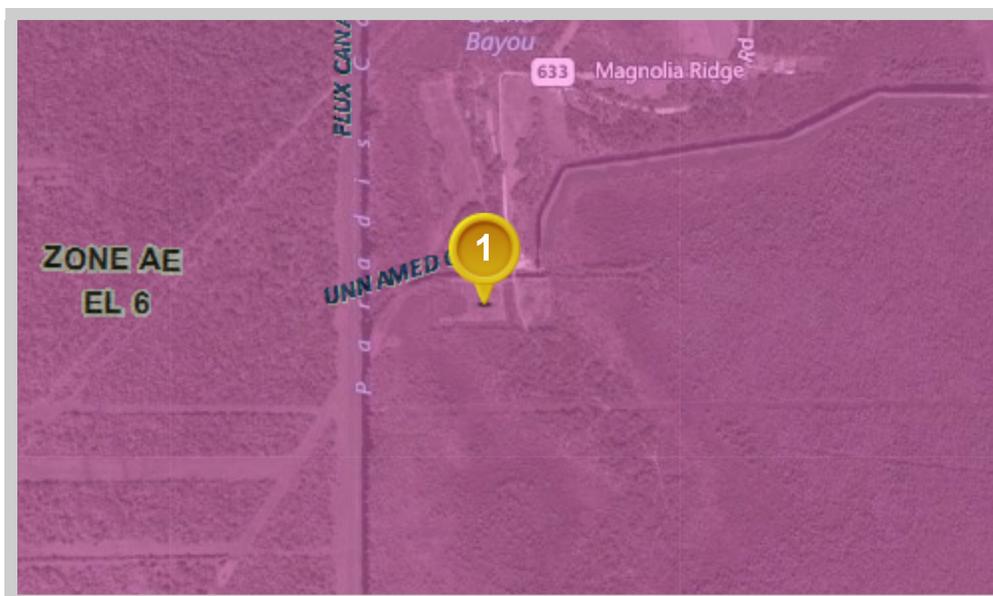


Louisiana Flood Map

Magnolia Ridge Pump Station

Ground Elevation Map

Email Print



Visible Layers

- Preliminary FIRM (11/09/12)
- Bing Hybrid

Point Coordinates

Point #	Lat., Long.
1	29.8626, -90.4107

Flood information in this table is from the: Preliminary FIRM (11/09/12)

Point	Panel ID	Flood Zone	BFE	Ground Elevation	BWS('13)*
1	22089C0250D 11/09/12	AE, EL 6	6	2.9	110-119 mph

1. **Ground Elevation** is provided by USGS's elevation web service which provides the best available data for the specified point. If unable to find elevation at the specified point, the service returns an extremely large, negative value (-1.79769313486231E+308).
2. **BWS** is provided by the LSU AgCenter's basic wind speed web service developed for the 2012 IRC building codes.

Floodplain data that is shown on this map is the same data that your flood plain administrator uses. This web product is not considered an official FEMA Digital Flood Insurance Rate Map (DFIRM). It is provided for information purposes only, and it is not intended for insurance rating purposes. Please contact your local floodplain administrator for more information or to view an official copy of the FIRM or DFIRM.

Adrienne Swann

From: Holly Fonseca
Sent: Thursday, August 22, 2013 2:01 PM
To: Carla Chiasson; Adrienne Swann
Subject: Fwd: DEQ SOV 130808/1580 St. Charles-Magnolia Ridge Pump Station

FYI

Sent from my iPhone

Begin forwarded message:

From: "Linda (Brown) Hardy" <Linda.Hardy@la.gov>
Date: August 22, 2013, 1:26:39 PM CDT
To: "'hfonseca@stcharlesgov.net'" <hfonseca@stcharlesgov.net>
Cc: Lynn Wilbanks <Lynn.Wilbanks@LA.GOV>
Subject: **DEQ SOV 130808/1580 St. Charles-Magnolia Ridge Pump Station**

August 22, 2013

Holly Fonseca, Grants Officer
St. Charles Parish Grants Office
P.O. Box 302
Hahnville, LA 70057
hfonseca@stcharlesgov.net

RE: 130808/1580 St. Charles-Magnolia Ridge Pump Station
FEMA Hazard Mitigation Grant Funding
St. Charles Parish

Dear Ms. Fonseca:

The Department of Environmental Quality (LDEQ), Business and Community Outreach Division has received your request for comments on the above referenced project.

After reviewing your request, the Department has no objections based on the information provided in your submittal. However, for your information, the following general comments have been included. Please be advised that if you should encounter a problem during the implementation of this project, you should immediately notify LDEQ's Single-Point-of-contact (SPOC) at (225) 219-3640.

- Please take any necessary steps to obtain and/or update all necessary approvals and environmental permits regarding this proposed project.
- If your project results in a discharge to waters of the state, submittal of a Louisiana Pollutant Discharge Elimination System (LPDES) application may be necessary.
- If the project results in a discharge of wastewater to an existing wastewater treatment system, that wastewater treatment system may need to modify its LPDES permit before accepting the additional wastewater.

- All precautions should be observed to control nonpoint source pollution from construction activities. LDEQ has stormwater general permits for construction areas equal to or greater than one acre. It is recommended that you contact the LDEQ Water Permits Division at (225) 219-9371 to determine if your proposed project requires a permit.
- If your project will include a sanitary wastewater treatment facility, a Sewage Sludge and Biosolids Use or Disposal Permit application or Notice of Intent must be submitted no later than January 1, 2013. Additional information may be obtained on the LDEQ website at <http://www.deq.louisiana.gov/portal/tabid/2296/Default.aspx> or by contacting the LDEQ Water Permits Division at (225) 219- 9371.
- If any of the proposed work is located in wetlands or other areas subject to the jurisdiction of the U.S. Army Corps of Engineers, you should contact the Corps directly regarding permitting issues. If a Corps permit is required, part of the application process may involve a water quality certification from LDEQ.
- All precautions should be observed to protect the groundwater of the region.
- Please be advised that water softeners generate wastewaters that may require special limitations depending on local water quality considerations. Therefore if your water system improvements include water softeners, you are advised to contact the LDEQ Water Permits to determine if special water quality-based limitations will be necessary.
- Any renovation or remodeling must comply with LAC 33:III.Chapter 28, Lead-Based Paint Activities; LAC 33:III.Chapter 27, Asbestos-Containing Materials in Schools and State Buildings (includes all training and accreditation); and LAC 33:III.5151, Emission Standard for Asbestos for any renovations or demolitions.
- If any solid or hazardous wastes, or soils and/or groundwater contaminated with hazardous constituents are encountered during the project, notification to LDEQ's Single-Point-of-Contact (SPOC) at (225) 219-3640 is required. Additionally, precautions should be taken to protect workers from these hazardous constituents.

Currently, St. Charles Parish is classified as attainment with the National Ambient Air Quality Standards and has no general conformity determination obligations.

Please send all future requests to my attention. If you have any questions, please feel free to contact me at (225) 219-3954 or by email at linda.hardy@la.gov.

Sincerely,

Linda M. Hardy

Technical Assistant to the Deputy Secretary
Louisiana Department of Environmental Quality
Office of the Secretary
P.O. Box 4301
Baton Rouge, LA 70821-4301
Ph: (225) 219-3954
Fax: (225) 219-3971
Email: linda.hardy@la.gov



State of Louisiana
Department of Environmental Quality



M.J. "MIKE" FOSTER, JR.
GOVERNOR

J. DALE GIVENS
SECRETARY

WQC 991129-01

FEB 14 2000

Shread-Kuyrkendall & Associates, Inc.
13000 Justice Avenue, Suite 16
Baton Rouge, LA 70816

Attention: Frank Stagg, PE, PLS and Agent for St. Charles Parish, Department of Public Works

RE: Proposal to construct a ring type levee system to prevent flooding by storm surge from Lakes Cataouatche, Salvador, and Des Allemands. The alignment is configured to connect two existing levee systems, on the westside of the Sunset Drainage District Levee, and on the eastside of the Davis Diversion West Guide Levee, St. Charles Parish, Louisiana Parish, Louisiana.

Gentlemen:

This is to acknowledge that you have completed the requirements for Water Quality Certification for the above referenced proposal.

It is our opinion that the proposed project will not violate water quality standards of the State of Louisiana, therefore, we offer no objection to this project provided that the fill material used is free of contaminants.

In accordance with statutory authority contained in the Louisiana Revised Statutes of 1950, Title 30, Chapter 11, Part IV, Section 2074 A(3) and provisions of Section 401 of the Clean Water Act (P.L. 95-217), the Office of Environmental Services certifies that it is reasonable to expect that water quality standards of Louisiana provided for under Section 303 of P. L. 95-217 will not be violated.

Sincerely,

J. Dale Givens
Secretary

c: Corps of Engineers, New Orleans – EM-20-000-0722
Coastal Management Division – P991399



recycled paper

OFFICE OF ENVIRONMENTAL SERVICES • P.O. BOX 82135 • BATON ROUGE, LOUISIANA 70884-2135

AN EQUAL OPPORTUNITY EMPLOYER





State of Louisiana
DEPARTMENT OF ENVIRONMENTAL QUALITY
ENVIRONMENTAL SERVICES

March 8, 2016

Mr. Lucas Lilly
GCR Inc.
2021 Lakeshore, Drive, Suite 500
New Orleans, Louisiana 70122

AI No.: 91102
Activity No.: CER20160001

RE: St. Charles Parish – West Bank Hurricane Protection Levee – Magnolia Ridge Project
Water Quality Certification WQC 160307-01
Corps of Engineers Permit MVN-2000-0722-EOO
Coastal Management Permit P20121273
St. Charles Parish

Dear Mr. Lilly:

The Louisiana Department of Environmental Quality, Water Permits Division (LDEQ), has reviewed the application to excavate and place fill to construct flood control and protection structures beginning near the Paradis Canal and ending near the proposed Ellington Levee, St. Charles Parish.

The information provided in the application dated July 17, 2014, has been reviewed in terms of compliance with State Water Quality Standards, the approved Water Quality Management Plan and applicable state water laws, rules and regulations. LDEQ determined that the requirements for a Water Quality Certification have been met. LDEQ concludes the discharge of fill material will not violate water quality standards as provided for in LAC 33:IX.Chapter 11. Therefore, LDEQ hereby issues St. Charles Parish – West Bank Hurricane Protection Levee – Magnolia Ridge Project Water Quality Certification, WQC 160307-01.

Should you have any questions concerning any part of this certification, please contact Elizabeth Hill (225) 219-3225 or by email at elizabeth.hill@la.gov. To ensure all correspondence regarding this certification is properly filed into the Department's Electronic Document Management System, please reference Agency Interest (AI) number 91102 on all future correspondence to this Department.

Sincerely,


Scott Guhlhams
Administrator
Water Permits Division

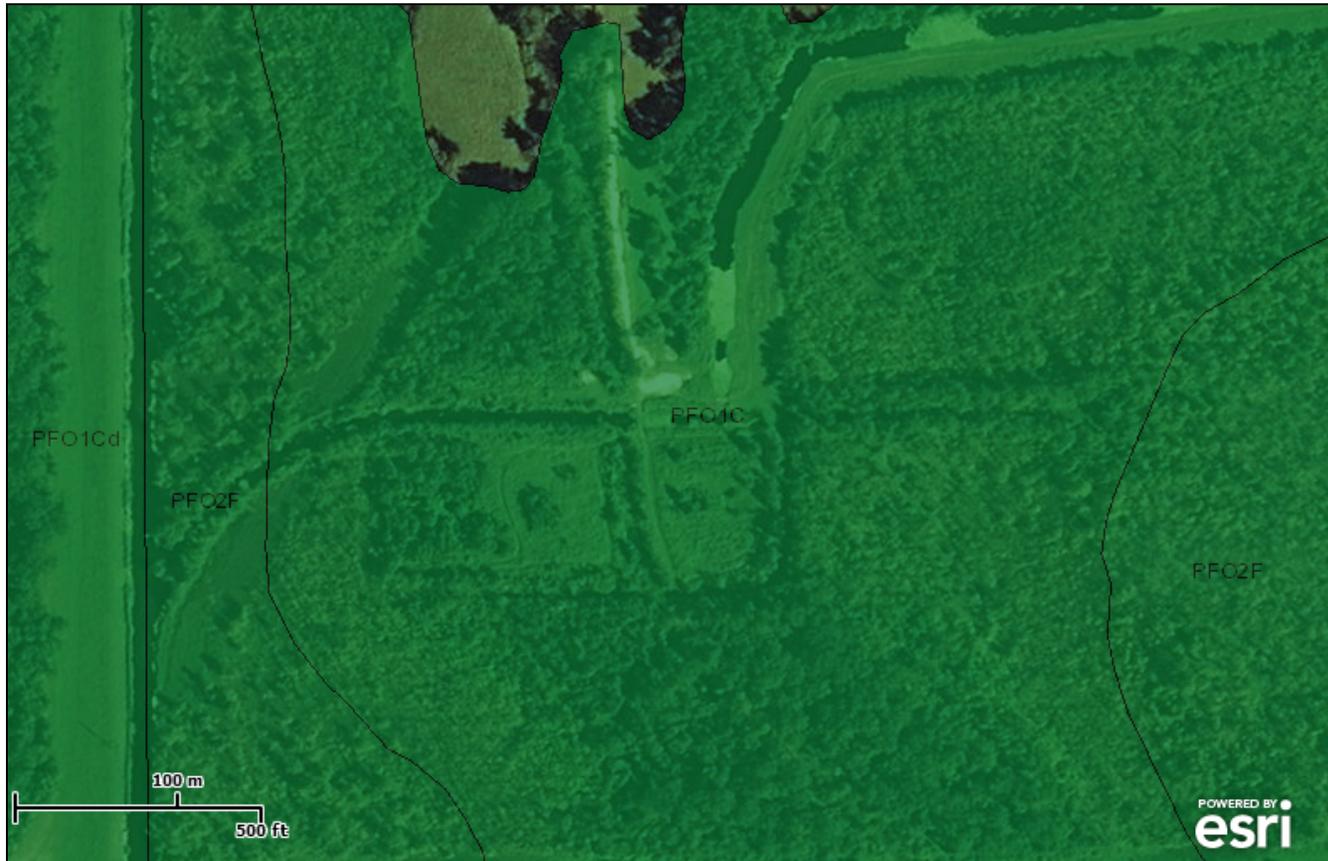
c: IO-W
Corps of Engineers – New Orleans District
Coastal Management Division



U.S. Fish and Wildlife Service National Wetlands Inventory

Magnolia Ridge Pump Station Wetlands Map

Jan 12, 2016



Wetlands

- Freshwater Emergent
- Freshwater Forested/Shrub
- Estuarine and Marine Deepwater
- Estuarine and Marine
- Freshwater Pond
- Lake
- Riverine
- Other

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

User Remarks:

Laborde, Brad MVN

From: Gutierrez, Raul [Gutierrez.Raul@epa.gov]
Sent: Tuesday, May 28, 2013 9:50 AM
To: Laborde, Brad MVN
Cc: Ettinger, John; Kitto, Alison; Patti Holland; Balkum, Kyle; Jamie Phillippe (jamie.phillippe@la.gov)
Subject: MVN-2000-722; Magnolia Ridge Phase I modification

Brad,

The Environmental Protection Agency (EPA) has reviewed the Public Notice dated May 6, 2013, concerning Department of the Army Permit Application Number MVN-2000-722, submitted by Saint Charles Parish Department of Public Works. The applicant is proposing to modify plans for the Magnolia Ridge Phase I West Bank Hurricane Protection Levee by closing an approximate 1,200 foot gap and installing an operational closure structure at Paradis Canal. The proposed project is located near Boutte, Louisiana, and would affect approximately 4.5 acres of jurisdictional wetlands. The comments that follow are being provided for use in reaching a decision relative to compliance with the EPA's 404(b)(1) Guidelines for Specification of Disposal Sites for Dredged or Fill Material (40 CFR Part 230).

The jurisdictional wetlands that would be impacted by this project not only provide wildlife habitat, but also perform valuable water quality maintenance functions by removing excess nutrients and pollutants from the water. They also provide floodwater storage. As you are aware, wetland areas such as those proposed to be impacted have experienced a tremendous decline in Louisiana. The 404(b)(1) Guidelines prohibit the discharge of dredged or fill material into waters of the United States, including wetlands, if there is a practicable alternative.

The EPA does not object to the project as proposed provided that the applicant has satisfied the requirements of the 404(b)(1) Guidelines. This should include providing compensatory mitigation within the project watershed for all unavoidable impacts that should fully offset all lost functions and values. Thank you for the opportunity to review and comment on the public notice. If you have any questions, please feel free to contact me at Gutierrez.raul@epa.gov <<mailto:Gutierrez.raul@epa.gov>> or 214-665-6697.

Raul Gutierrez, Ph.D.

Wetlands Section (6WQ-EM)

U.S. EPA Region 6

1445 Ross Avenue, Suite 1200

Dallas, Texas 75202

(214)665-6697



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

AUG 12 2014

REPLY TO
ATTENTION OF

Operations Division
Eastern Evaluation Section

SUBJECT: MVN-2000-0722-EOO

Sam Scholle
Saint Charles Parish Department of Public Works
100 River Oaks Drive
Destrehan, Louisiana 70047

Dear Mr. Scholle:

The enclosed drawings, numbered 1-23 and dated April 2013, furnished with your permit modification and time extension request to clear, grade, excavate, and deposit fill for levee improvements to the Magnolia Ridge Phase I West Bank Hurricane Protection Levee, adjacent to Paradis Canal and the Magnolia Ridge Ranchettes community of Boutte, in Saint Charles Parish, Louisiana, are approved and will be included in your plans for the work authorized by the Secretary of the Army in a permit dated March 19, 2002 and time extension dated April 27, 2007, from the District Engineer at New Orleans, Louisiana. Your authorization is valid until July 31, 2019.

Special conditions 12, 13, 16, 17, and 20 of the original permit remain in effect. In addition, this approval is subject to the following conditions:

1. Issuance of this permit confirms that the US Army Corps of Engineers, New Orleans District, Regulatory Branch (CEMVN) has been provided with written notification from Enterprise Woodlands LLC that the permittee has contracted for 5.2 acres of bottomland hardwood and 0.8 acres of cypress swamp mitigation credits at the Enterprise Woodlands Mitigation Bank. Enterprise Woodlands LLC has assumed responsibility for completing the mitigation in accordance with the Enterprise Woodlands Wetland Mitigation Banking Instrument and has recorded the allocation of the mitigation required by this permit in the Regulatory In-lieu Fee and Bank Information Tracking System (RIBITS).
2. Issuance of this permit confirms that CEMVN has been provided with written notification from Chevron U.S.A., Inc. that the permittee has contracted for 2.7 acres of bottomland hardwood and 1.4 acres of cypress swamp mitigation credits at the Paradis Mitigation Bank. Chevron U.S.A., Inc. has assumed responsibility for completing the mitigation in accordance with the Paradis Wetland Mitigation Banking Instrument and has recorded the allocation of the mitigation required by this permit in RIBITS.

3. The permitted activity must not interfere with the public's right to free navigation on all navigable waters of the United States.
4. The permittee must install and maintain, at the permittee's expense, any safety lights, signs, and signals prescribed by the U.S. Coast Guard, through regulations or otherwise, on the permittee's authorized facilities.
5. The permittee understands and agrees that, if future operations by the United States require the removal, relocation, or other alteration, of the structure or work herein authorized, or if, in the opinion of the Secretary of the Army or his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the permittee will be required, upon due notice from the Corps of Engineers, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim shall be made against the United States on account of any such removal or alteration.
6. If the authorized project, or future maintenance work, involves the use of floating construction equipment (barge mounted cranes, barge mounted pile driving equipment, floating dredge equipment, dredge discharge pipelines, etc.,) in the waterway, you are advised to notify the Eighth Coast Guard District so that a Notice to Mariners, if required, may be prepared. Notification with a copy of your permit approval and drawings should be mailed to the Commander (dpw), Eighth Coast Guard District, Hale Boggs Federal Building, 500 Poydras Street, Room 1230, New Orleans, Louisiana 70130, about 1 month before you plan to start work. Telephone inquiries can be directed to the Eighth Coast Guard District, Waterways Management at (504) 671-2107.
7. The Chitimacha Tribe of Louisiana has stated that the project area is part of the aboriginal Chitimacha homelands. If during the course of work at the site, prehistoric and/or historic aboriginal cultural materials are discovered, the permittee will contact the Chitimacha Tribe of Louisiana at P.O. Box 661, Charenton, LA 70523, and CEMVN. CEMVN will initiate the required Federal, State, and Tribal coordination to determine the significance of the cultural materials and the need, if applicable, for additional cultural resource investigations.
8. If the authorized project requires any additional work not expressly permitted herein, the permittee must apply for an amendment to this authorization.
9. Prior to commencing work on the project, the permittee must obtain all necessary state and parish approvals.
10. The permittee shall employ siltation controls around all construction sites that require earthwork (clearing, grading, dredging and/or deposition of fill material) such that eroded material is prevented from entering adjacent wetlands and/or waterways.

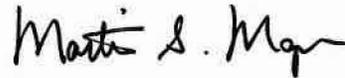
11. The permittee shall assure that all material used during construction shall be pollutant free in accordance with the EPA Guidelines for the Discharge of Dredged or Fill Material, found in 40 CFR 230. The material may be obtained off-site or on-site (as a result of the permitted activity). Offsite material shall not be obtained from wetlands or from other areas that may adversely affect adjacent wetlands. Any excess material shall be placed in an upland area and properly contained or stabilized to prevent entry into adjacent wetlands or other waters.
12. The pump and water control structures associated with the Magnolia Ridge Levee System shall be operated in accordance with the revised September 2012, Operations Plan (3 sheets) attached with the site plans of this permit. Monitoring of the Magnolia Ridge Levee System shall be carried out as described on page 3, labeled: III. Documentation, A and B of the Operations Plan. Emergency operational conditions are to be recorded and submitted as a spreadsheet documented by: storm name (if applicable), type of event, date and time(s) of operation, date and time(s) of gated culverts in the 'open' position, and lowest interior water levels of the basin.
13. The permittee is required to apply for an amendment to this authorization if the September 2012, Operations Plan is modified. CEMVN will then determine if a new public interest review is required to evaluate impacts associated with the changes.
14. The permittee is aware that CEMVN may request a modification to the September 2012, Operations Plan if it is determined that the Magnolia Ridge Levee System has resulted in unforeseen negative impacts to the wetlands enclosed by the project.

Permittee is aware that this office may re-evaluate its decision on this permit at any time the circumstances warrant.

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.

If the work authorized is not completed on or before the date herein specified, this authorization, if not previously revoked or specifically further extended, will cease and become null and void.

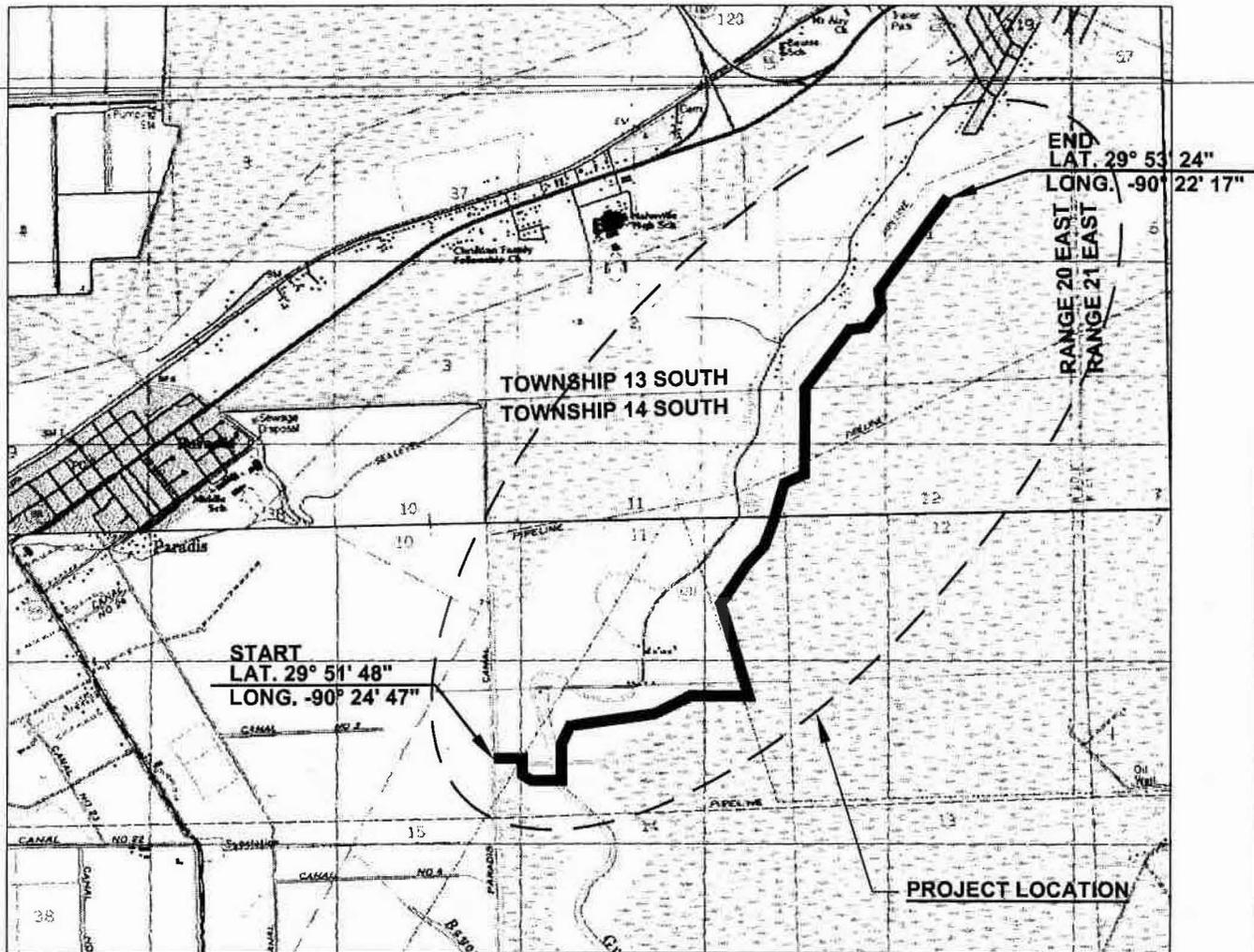
BY AUTHORITY OF THE SECRETARY OF THE ARMY:

A handwritten signature in black ink that reads "Martin S. Mayer". The signature is written in a cursive style with a large, prominent "M" and "S".

Martin S. Mayer
Chief, Regulatory Branch
for
Richard L. Hansen
Colonel, U. S. Army
District Commander

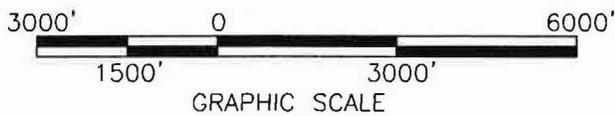
Enclosure

PROPOSED HURRICANE PROTECTION LEVEE MAGNOLIA AREA ST. CHARLES PARISH, LOUISIANA



VICINITY MAP

SCALE: 1" = 3000'



PARISH OF ST. CHARLES
APPLICATION BY: PARISH OF ST. CHARLES

SHEET: 2 OF 23

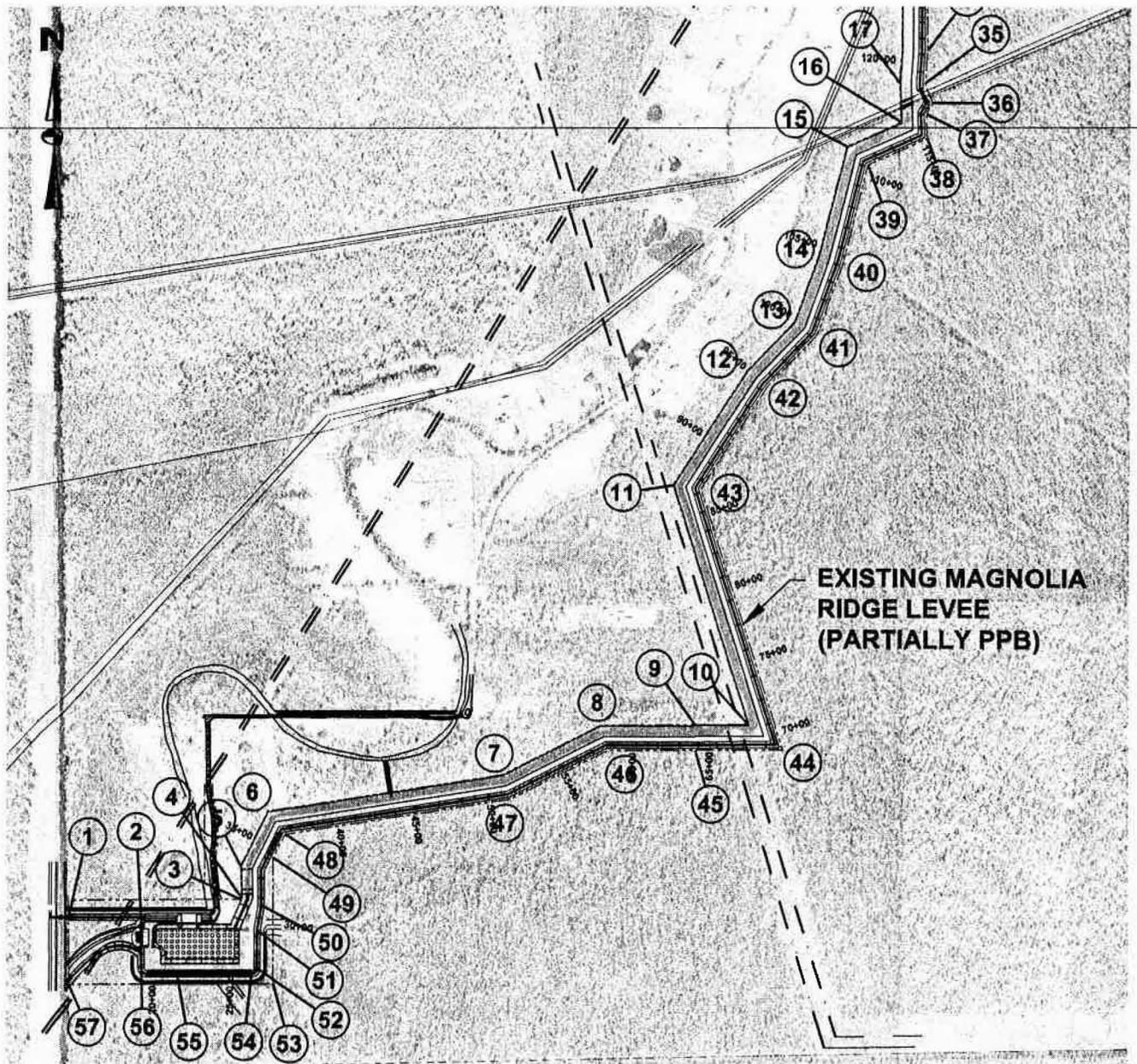
VICINITY MAP

BURK-KLEINPETER, INC.
ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
4176 CANAL STREET, NEW ORLEANS, LOUISIANA 70119-5994
(504) 486-5901 FAX (504) 488-1714

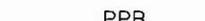
BKI PROJ. NO. 10475-0100

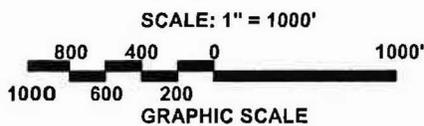
APRIL 2013

PROPOSED HURRICANE PROTECTION LEVEE MAGNOLIA RIDGE AREA ST. CHARLES PARISH, LOUISIANA



LEGEND:

-  LEVEE RIGHT OF WAY
-  LEVEE BASELINE
-  EXISTING ENERGY OVERHEAD POWER
-  PPB PREVIOUSLY PERMITTED & BUILT



PARISH OF ST. CHARLES
APPLICATION BY: PARISH OF ST. CHARLES

SHEET: 3 OF 23

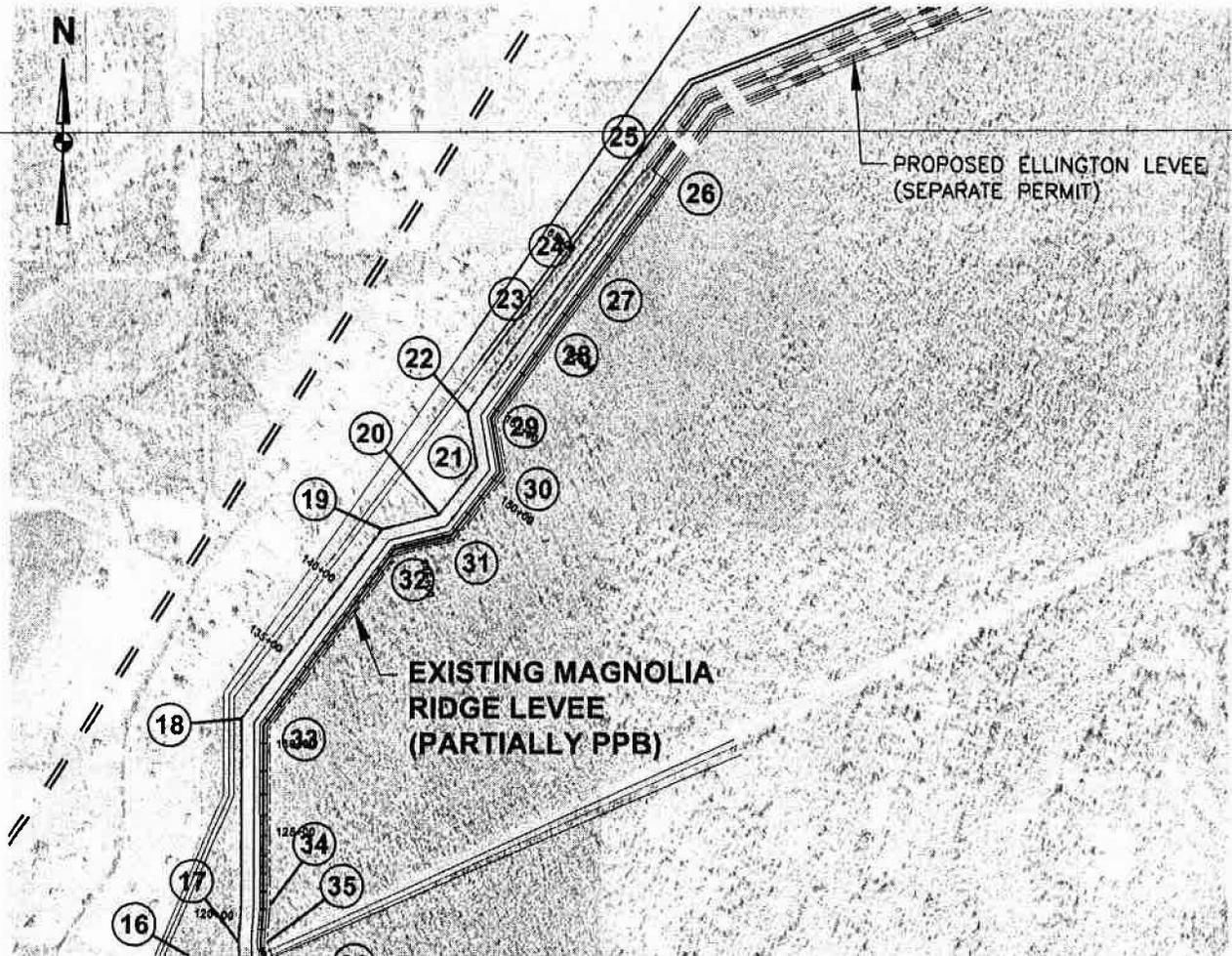
COORDINATES PLAN 1 OF 2

BURK-KLEINPETER, INC.
ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
4176 CANAL STREET, NEW ORLEANS, LOUISIANA 70119-5994
(504) 486-5901 FAX (504) 488-1714

BKI PROJ. NO. 10475-0100

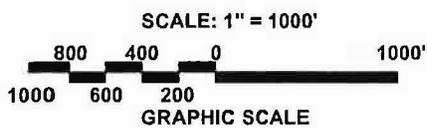
APRIL 2013

PROPOSED HURRICANE PROTECTION LEVEE MAGNOLIA RIDGE AREA ST. CHARLES PARISH, LOUISIANA



LEGEND:

- LEVEE RIGHT OF WAY
- +—— LEVEE BASELINE
- == == == EXISTING ENERGY OVERHEAD POWER
- PPB PREVIOUSLY PERMITTED & BUILT



PARISH OF ST. CHARLES
APPLICATION BY: PARISH OF ST. CHARLES

SHEET: 4 OF 23

COORDINATES PLAN 2 OF 2

BURK-KLEINPETER, INC.
ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
4176 CANAL STREET, NEW ORLEANS, LOUISIANA 70119-5994
(504) 486-5901 FAX (504) 488-1714

BKI PROJ. NO. 10475-0100

APRIL 2013

**PROPOSED HURRICANE PROTECTION LEVEE
MAGNOLIA RIDGE AREA
ST. CHARLES PARISH, LOUISIANA**

PT#	NORTHING	EASTING
1	496965.75	3572488.86
2	496967.35	3572956.72
3	497083.05	3573597.00
4	497094.35	3573601.73
5	497299.34	3573597.05
6	497654.36	3573770.41
7	497888.57	3575293.80
8	498206.46	3575929.68
9	498211.56	3576543.81
10	498214.42	3576888.35
11	499781.28	3576405.49
12	500521.18	3576877.35
13	500847.04	3577188.53
14	501269.69	3577340.21
15	501975.29	3577523.67
16	502134.26	3577875.82
17	502388.23	3577864.90
18	503656.22	3577877.16
19	504794.58	3578539.16
20	504817.69	3578996.95
21	505091.94	3579209.41
22	505399.72	3579156.87
23	505937.34	3579539.41
24	506251.78	3579771.30
25	506800.25	3580175.44
26	506702.41	3580308.24
27	506153.85	3579904.09
28	505840.54	3579673.04
29	505359.92	3579331.05
30	505048.22	3579384.25
31	504671.12	3579092.12
32	504592.15	3578769.67
33	503602.30	3578042.30
34	502596.21	3578044.89
35	502386.00	3578030.15
36	502258.93	3578077.36
37	502184.52	3578041.01
38	502029.80	3578072.37
39	501857.38	3577663.50

NOTE:

COORDINATES SHOWN ARE LOUISIANA STATE PLAN SOUTH NAD83.

PARISH OF ST. CHARLES
APPLICATION BY: PARISH OF ST. CHARLES

SHEET: 5 OF 23

COORDINATES TABLE 1 OF 2

BURK-KLEINPETER, INC.
ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
4176 CANAL STREET, NEW ORLEANS, LOUISIANA 70119-5994
(504) 486-5901 FAX (504) 488-1714

BKI PROJ. NO. 10475-0100

APRIL 2013

**PROPOSED HURRICANE PROTECTION LEVEE
MAGNOLIA RIDGE AREA
ST. CHARLES PARISH, LOUISIANA**

PT# NORTHING EASTING

40	501263.12	3577498.02
41	500758.38	3577332.01
42	500418.54	3577007.48
43	499757.38	3576580.52
44	498051.27	3577112.00
45	498046.56	3576545.18
46	498041.78	3575969.27
47	497729.42	3575344.44
48	497504.39	3573880.80
49	497351.89	3573806.33
50	497043.55	3573731.29
51	496879.60	3573705.00
52	496633.92	3573705.84
53	496533.78	3573809.61
54	496596.30	3573668.45
55	496596.30	3573191.52
56	496730.06	3572957.53
57	496529.25	3572490.36

NOTE:

COORDINATES SHOWN ARE LOUISIANA STATE PLAN SOUTH NAD83.

**PARISH OF ST. CHARLES
APPLICATION BY: PARISH OF ST. CHARLES**

SHEET: 6 OF 23

COORDINATES TABLE 2 OF 2

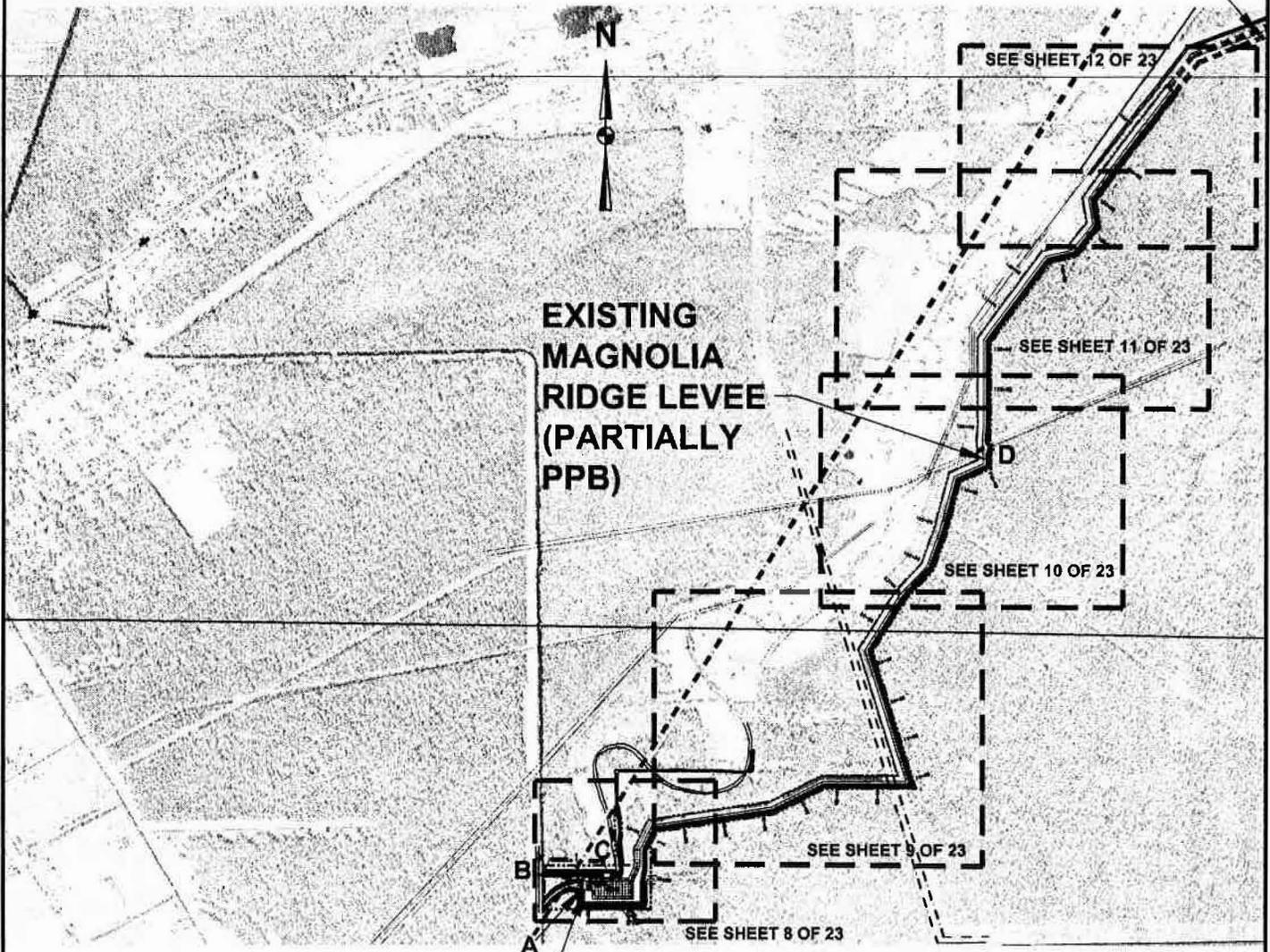
BURK-KLEINPETER, INC.
ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
4176 CANAL STREET, NEW ORLEANS, LOUISIANA 70119-5994
(504) 486-5901 FAX (504) 488-1714

BKI PROJ. NO. 10475-0100

APRIL 2013

PROPOSED HURRICANE PROTECTION LEVEE MAGNOLIA PLANTATION AREA ST. CHARLES PARISH, LOUISIANA

PROPOSED ELLINGTON LEVEE
(SEPARATE PERMIT)



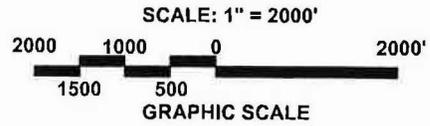
**EXISTING
MAGNOLIA
RIDGE LEVEE
(PARTIALLY
PPB)**

**PROPOSED MAGNOLIA RIDGE
PUMP STATION (PPNB)**

STRUCTURES LEGEND:

- A PROPOSED PUMPING STATION (PPNB)
- B PROPOSED CLOSURE STRUCTURE (PPNB)
- C PROPOSED 100' WEIR
- D PROPOSED PIPELINE CROSSING THRU T-WALL (PPNB)

(PPNB) = PREVIOUSLY PERMITTED & NOT BUILT
(PPB) = PREVIOUSLY PERMITTED & BUILT



PARISH OF ST. CHARLES
APPLICATION BY: PARISH OF ST. CHARLES

SHEET: 7 OF 23

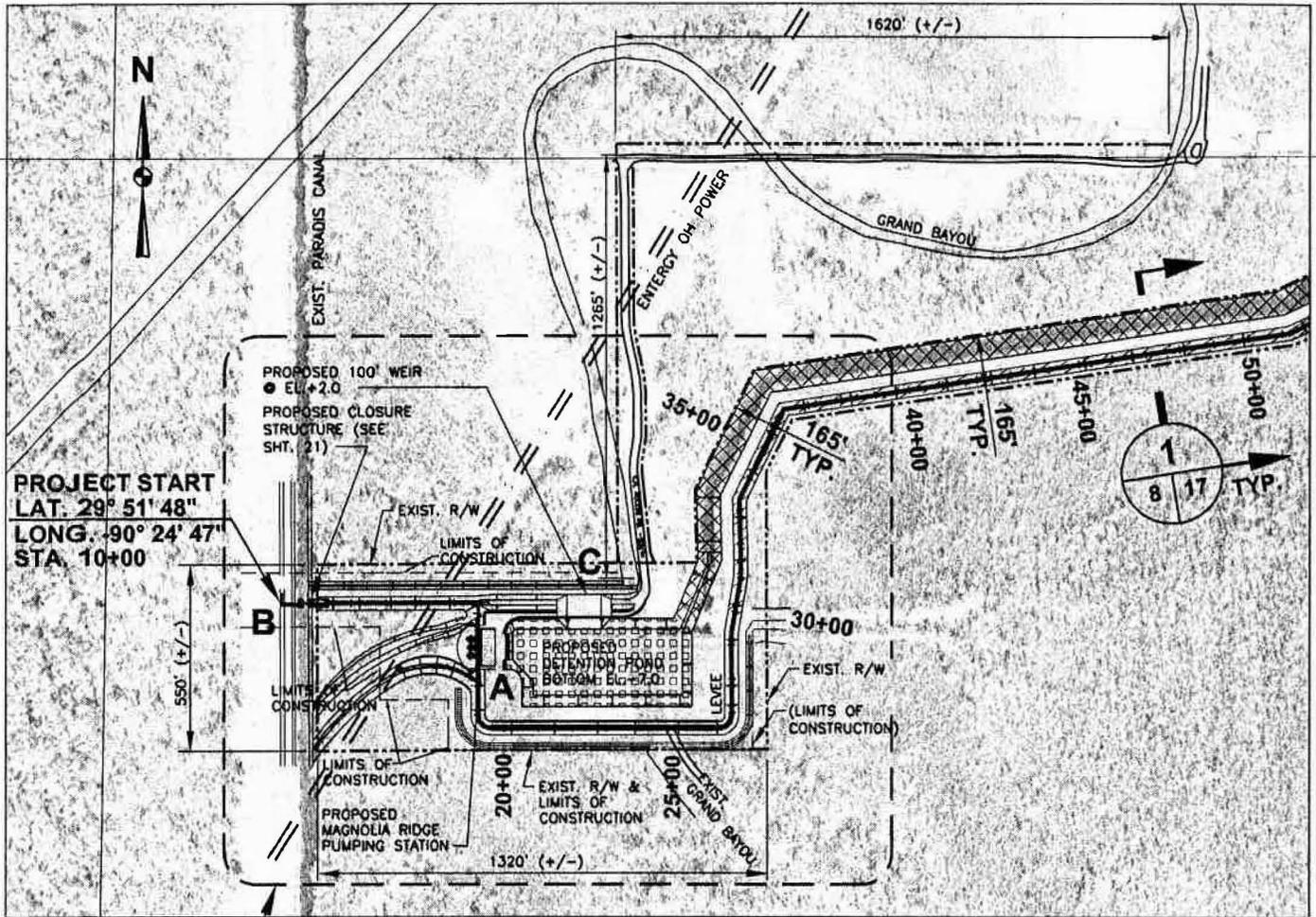
PLAN KEY SHEET

BURK-KLEINPETER, INC.
ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
4176 CANAL STREET, NEW ORLEANS, LOUISIANA 70119-5994
(504) 486-5901 FAX (504) 488-1714

BKI PROJ. NO. 10475-0100

APRIL 2013

PROPOSED HURRICANE PROTECTION LEVEE MAGNOLIA RIDGE AREA ST. CHARLES PARISH, LOUISIANA



PROJECT START
LAT. 29° 51' 48"
LONG. -90° 24' 47"
STA. 10+00

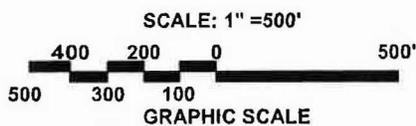
**SEE DETAIL 1,
 SHT. 13**

LEGEND:

- LIMITS OF CONSTRUCTION
- LEVEE RIGHT OF WAY
- LEVEE BASELINE
- ==== EXISTING ENERGY OVERHEAD POWER
- XXXXXX EXCAVATION (PPB)
- ////// FILL (PPB)
- OOOOOO DETENTION POND (PPNB)
- PPB PREVIOUSLY PERMITTED & BUILT
- PPNB PREVIOUSLY PERMITTED & NOT BUILT

NOTE:

UTILITY LINES SHOWN ARE APPROXIMATE POSITIONS OF UTILITY EASEMENTS AND ARE NOT MEANT TO INDICATE ACTUAL OWNERSHIP OR POSITION OF PIPELINE OR POWERLINES.



PARISH OF ST. CHARLES
APPLICATION BY: PARISH OF ST. CHARLES

SHEET: 8 OF 23

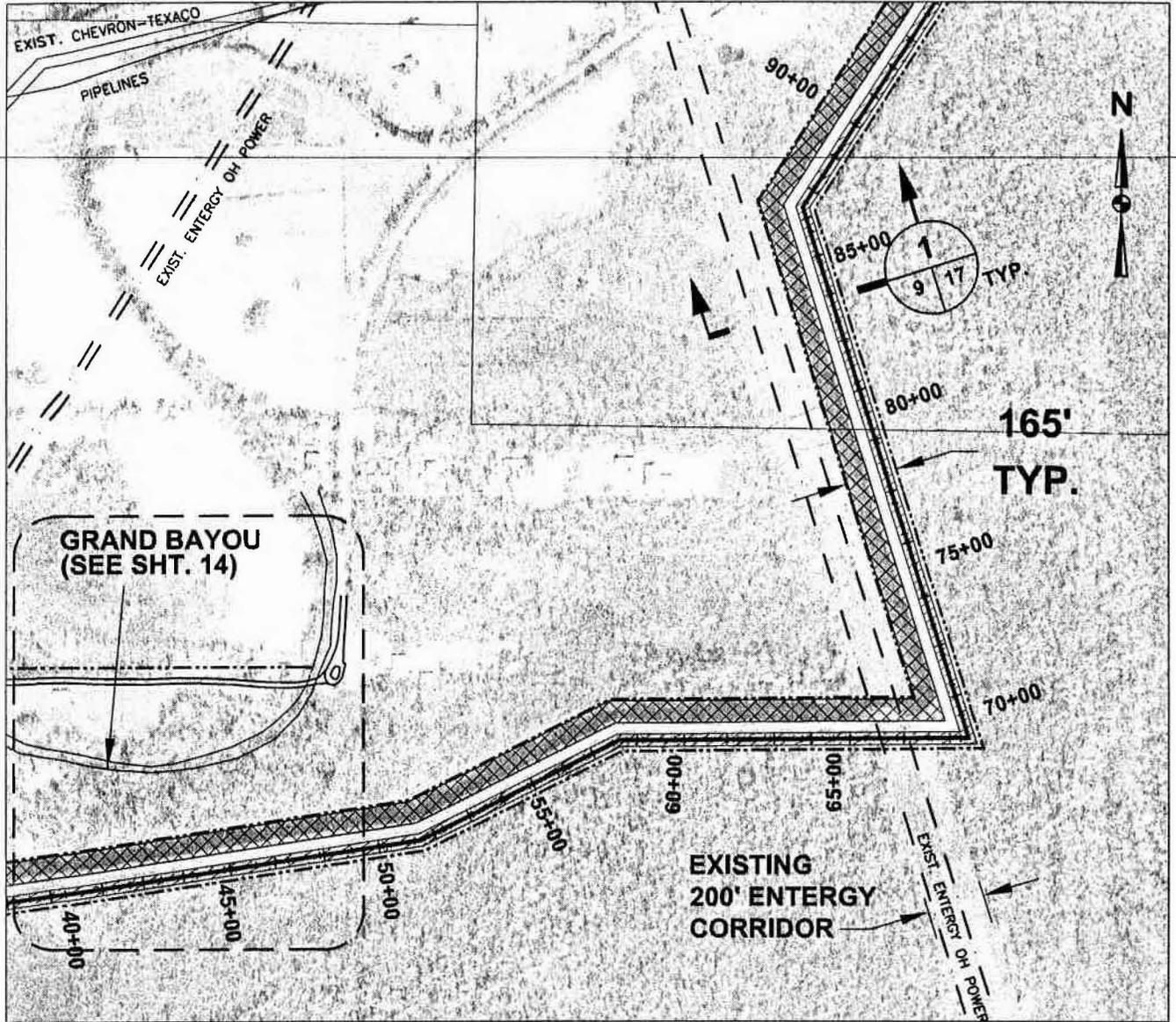
PARTIAL PLAN 1 OF 5

BURK-KLEINPETER, INC.
 ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
 4176 CANAL STREET, NEW ORLEANS, LOUISIANA 70119-5994
 (504) 486-5901 FAX (504) 488-1714

BKI PROJ. NO. 10475-0100

APRIL 2013

PROPOSED HURRICANE PROTECTION LEVEE MAGNOLIA RIDGE AREA ST. CHARLES PARISH, LOUISIANA

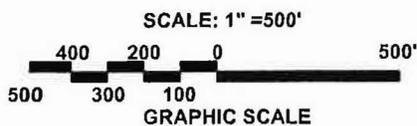


LEGEND:

- LEVEE RIGHT OF WAY
- LEVEE BASELINE
- ==== EXISTING ENERGY OVERHEAD POWER
- XXXXXX EXCAVATION (PPB)
- XXXXXX FILL (PPB)
- PPB PREVIOUSLY PERMITTED & BUILT

NOTE:

UTILITY LINES SHOWN ARE APPROXIMATE POSITIONS OF UTILITY EASEMENTS AND ARE NOT MEANT TO INDICATE ACTUAL OWNERSHIP OR POSITION OF PIPELINE OR POWERLINES.



PARISH OF ST. CHARLES
APPLICATION BY: **PARISH OF ST. CHARLES**

SHEET: 9 OF 23

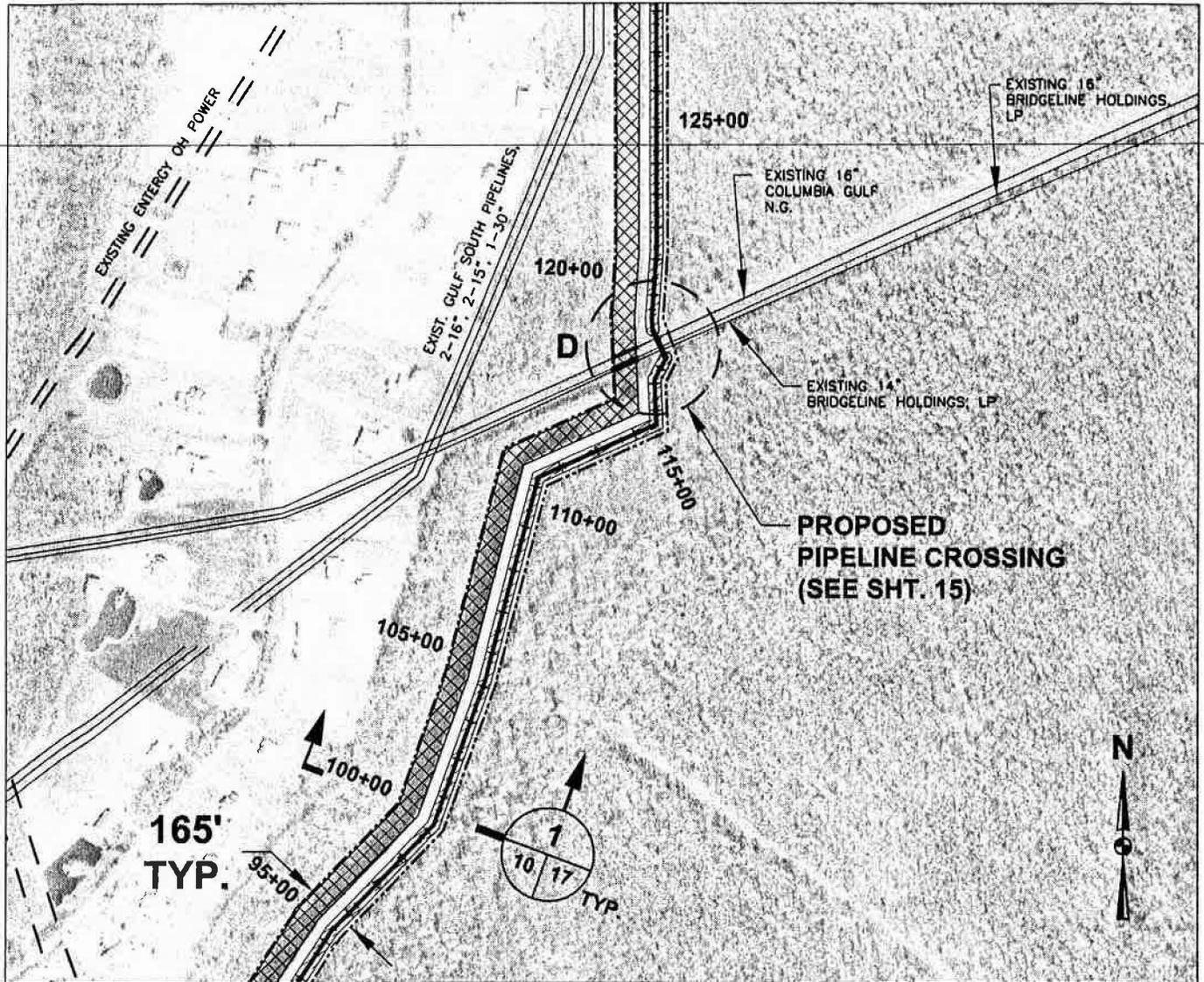
PARTIAL PLAN 2 OF 5

BURK-KLEINPETER, INC.
ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
4176 CANAL STREET, NEW ORLEANS, LOUISIANA 70119-5994
(504) 486-5901 FAX (504) 488-1714

BKI PROJ. NO. 10475-0100

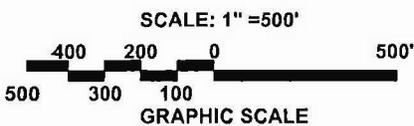
APRIL 2013

PROPOSED HURRICANE PROTECTION LEVEE MAGNOLIA RIDGE AREA ST. CHARLES PARISH, LOUISIANA



LEGEND:

- LEVEE RIGHT OF WAY
- + + + + + LEVEE BASELINE
- ==== EXISTING ENTRY OVERHEAD POWER
- XXXXXX EXCAVATION (PPB)
- ////// FILL (PPB)
- PPB PREVIOUSLY PERMITTED & BUILT



NOTE:

UTILITY LINES SHOWN ARE APPROXIMATE POSITIONS OF UTILITY EASEMENTS AND ARE NOT MEANT TO INDICATE ACTUAL OWNERSHIP OR POSITION OF PIPELINE OR POWERLINES.

PARISH OF ST. CHARLES
APPLICATION BY: PARISH OF ST. CHARLES

SHEET: 10 OF 23

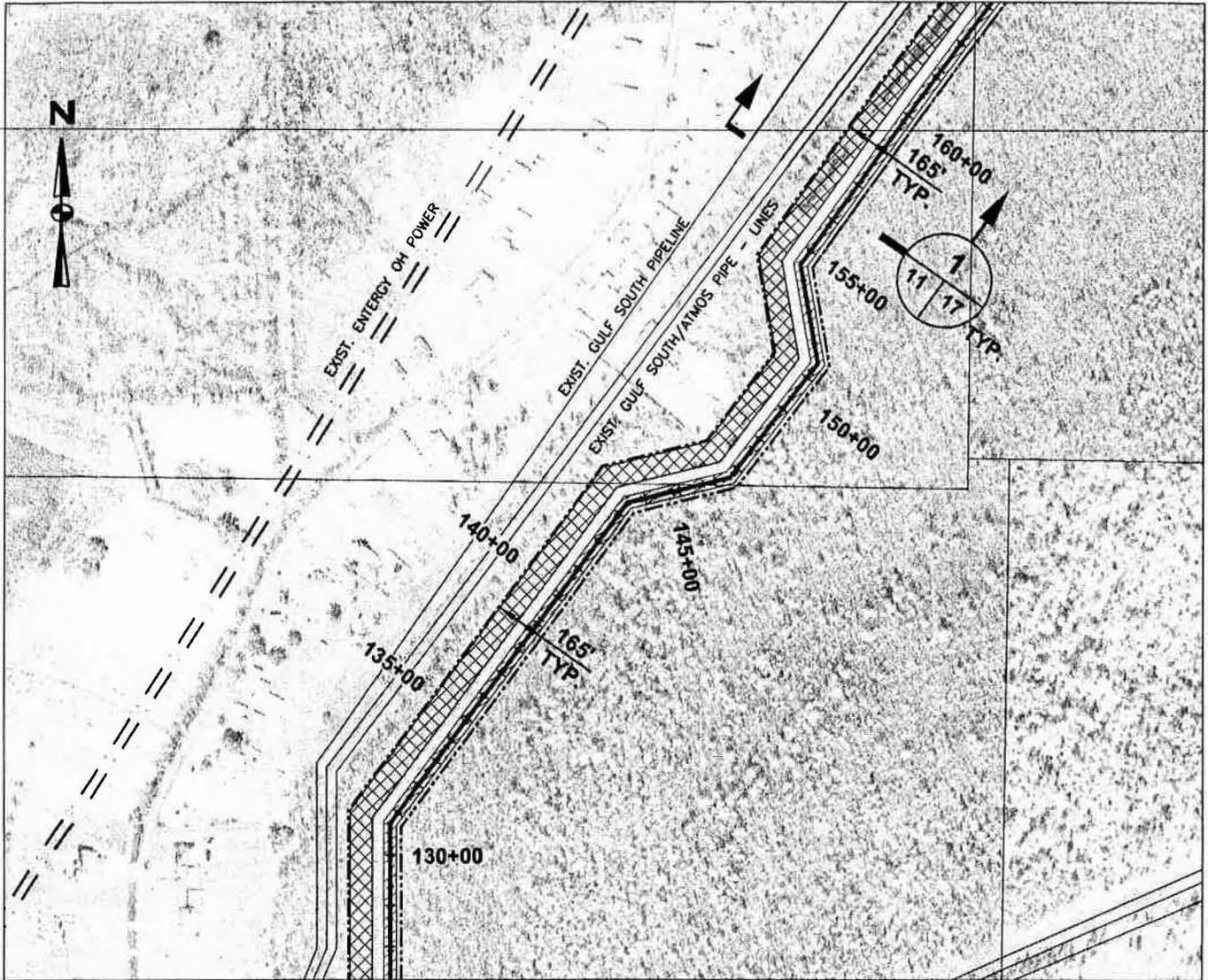
PARTIAL PLAN 3 OF 5

BURK-KLEINPETER, INC.
ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
4176 CANAL STREET, NEW ORLEANS, LOUISIANA 70119-5994
(504) 486-5901 FAX (504) 488-1714

BKI PROJ. NO. 10475-0100

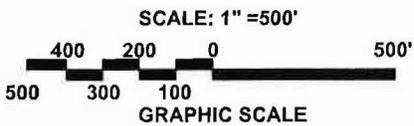
APRIL 2013

PROPOSED HURRICANE PROTECTION LEVEE MAGNOLIA RIDGE AREA ST. CHARLES PARISH, LOUISIANA



LEGEND:

- LEVEE RIGHT OF WAY
- LEVEE BASELINE
- ==== EXISTING ENERGY OVERHEAD POWER
- XXXXX EXCAVATION (PPB)
- ////// FILL (PPB)
- PPB PREVIOUSLY PERMITTED & BUILT



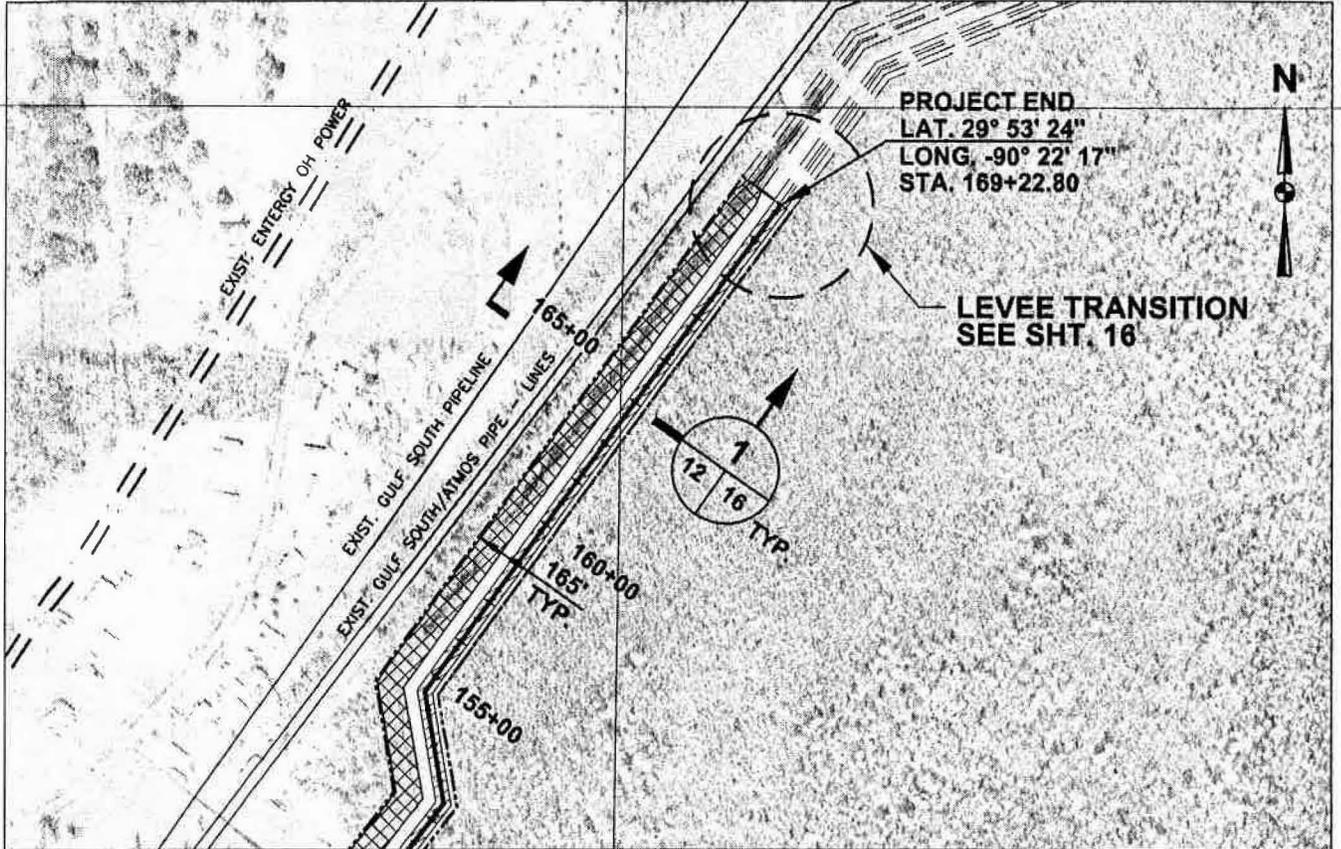
NOTE:

UTILITY LINES SHOWN ARE APPROXIMATE POSITIONS OF UTILITY EASEMENTS AND ARE NOT MEANT TO INDICATE ACTUAL OWNERSHIP OR POSITION OF PIPELINE OR POWERLINES.

PARISH OF ST. CHARLES
APPLICATION BY: PARISH OF ST. CHARLES

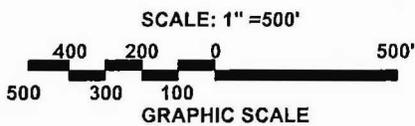
BURK-KLEINPETER, INC.
ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
4176 CANAL STREET, NEW ORLEANS, LOUISIANA 70119-5994
(504) 486-5901 FAX (504) 488-1714

PROPOSED HURRICANE PROTECTION LEVEE MAGNOLIA RIDGE AREA ST. CHARLES PARISH, LOUISIANA



LEGEND:

- LEVEE RIGHT OF WAY
- LEVEE BASELINE
- ==== EXISTING ENERGY OVERHEAD POWER
- XXXXX EXCAVATION (PPB)
- ////// FILL (PPB)
- PPB PREVIOUSLY PERMITTED & BUILT



NOTE:

UTILITY LINES SHOWN ARE APPROXIMATE POSITIONS OF UTILITY EASEMENTS AND ARE NOT MEANT TO INDICATE ACTUAL OWNERSHIP OR POSITION OF PIPELINE OR POWERLINES.

PARISH OF ST. CHARLES
APPLICATION BY: PARISH OF ST. CHARLES

SHEET: 12 OF 23

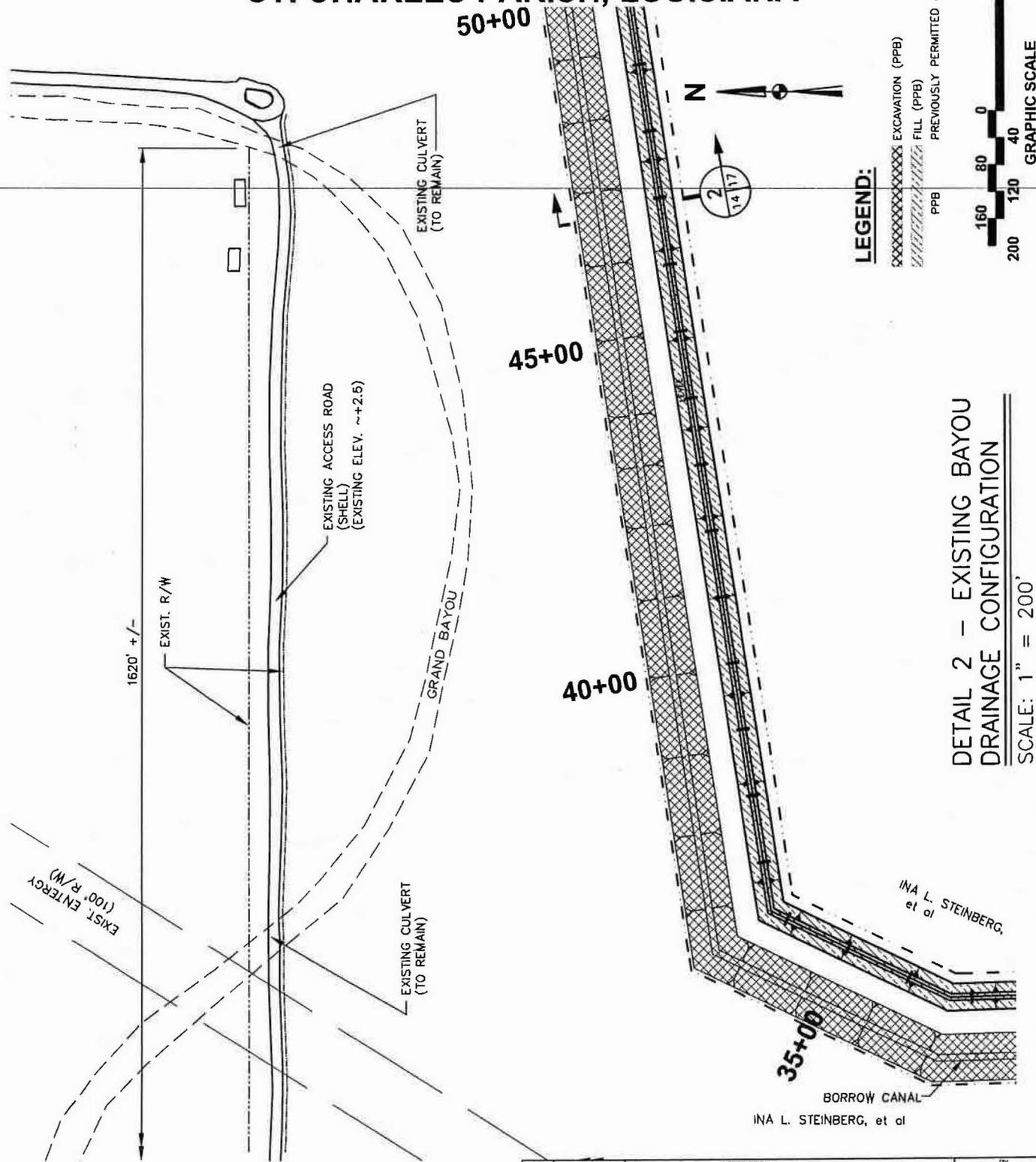
PARTIAL PLAN 5 of 5

BURK-KLEINPETER, INC.
ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
4176 CANAL STREET NEW ORLEANS, LOUISIANA 70119-5994
(504) 486-5901 FAX (504) 488-1714

BKI PROJ. NO. 10475-0100

APRIL 2013

PROPOSED HURRICANE PROTECTION LEVEE MAGNOLIA RIDGE AREA ST. CHARLES PARISH, LOUISIANA



LEGEND:

- XXXXXX EXCAVATION (PPB)
- XXXXXX FILL (PPB)
- PPB PREVIOUSLY PERMITTED & BUILT

200'
160
120
80
40
0
GRAPHIC SCALE

**DETAIL 2 - EXISTING BAYOU
DRAINAGE CONFIGURATION**
 SCALE: 1" = 200'

INA L. STEINBERG,
et al

BORROW CANAL
INA L. STEINBERG, et al

PARISH OF ST. CHARLES
APPLICATION BY: PARISH OF ST. CHARLES
 SHEET: 14 OF 23

GRAND BAYOU DETAIL

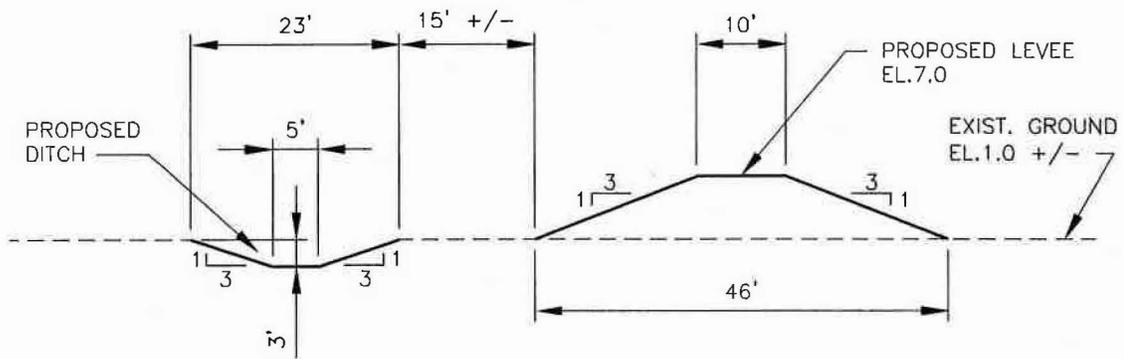
REV.	DATE	DESCRIPTION	BY

BURK-KLEINPETER, INC.
 ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
 4176 CANAL STREET, NEW ORLEANS, LOUISIANA 70119-5994
 (504) 486-5901 FAX (504) 488-1714

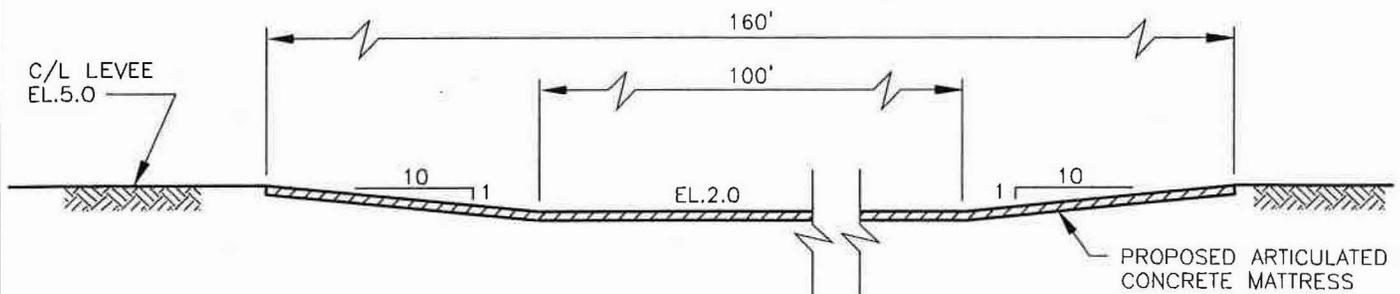
BKI PROJ. NO. 10475-0100

APRIL 2013

PROPOSED HURRICANE PROTECTION LEVEE MAGNOLIA RIDGE AREA ST. CHARLES PARISH, LOUISIANA



SECTION B
N.T.S. 13/15A

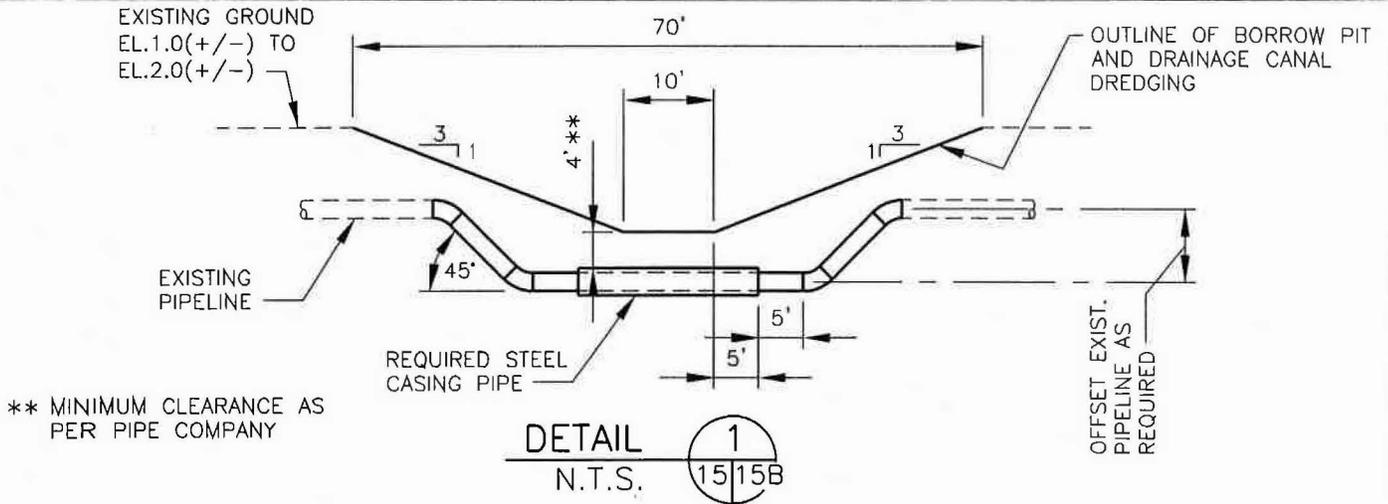


SECTION C
N.T.S. 13/15A

PARISH OF ST. CHARLES
APPLICATION BY: PARISH OF ST. CHARLES

BURK-KLEINPETER, INC.
ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
4176 CANAL STREET, NEW ORLEANS, LOUISIANA 70119-5994
(504) 486-5901 FAX (504) 488-1714

PROPOSED HURRICANE PROTECTION LEVEE MAGNOLIA RIDGE AREA ST. CHARLES PARISH, LOUISIANA



PARISH OF ST. CHARLES
APPLICATION BY: PARISH OF ST. CHARLES

SHEET: 15B OF 23

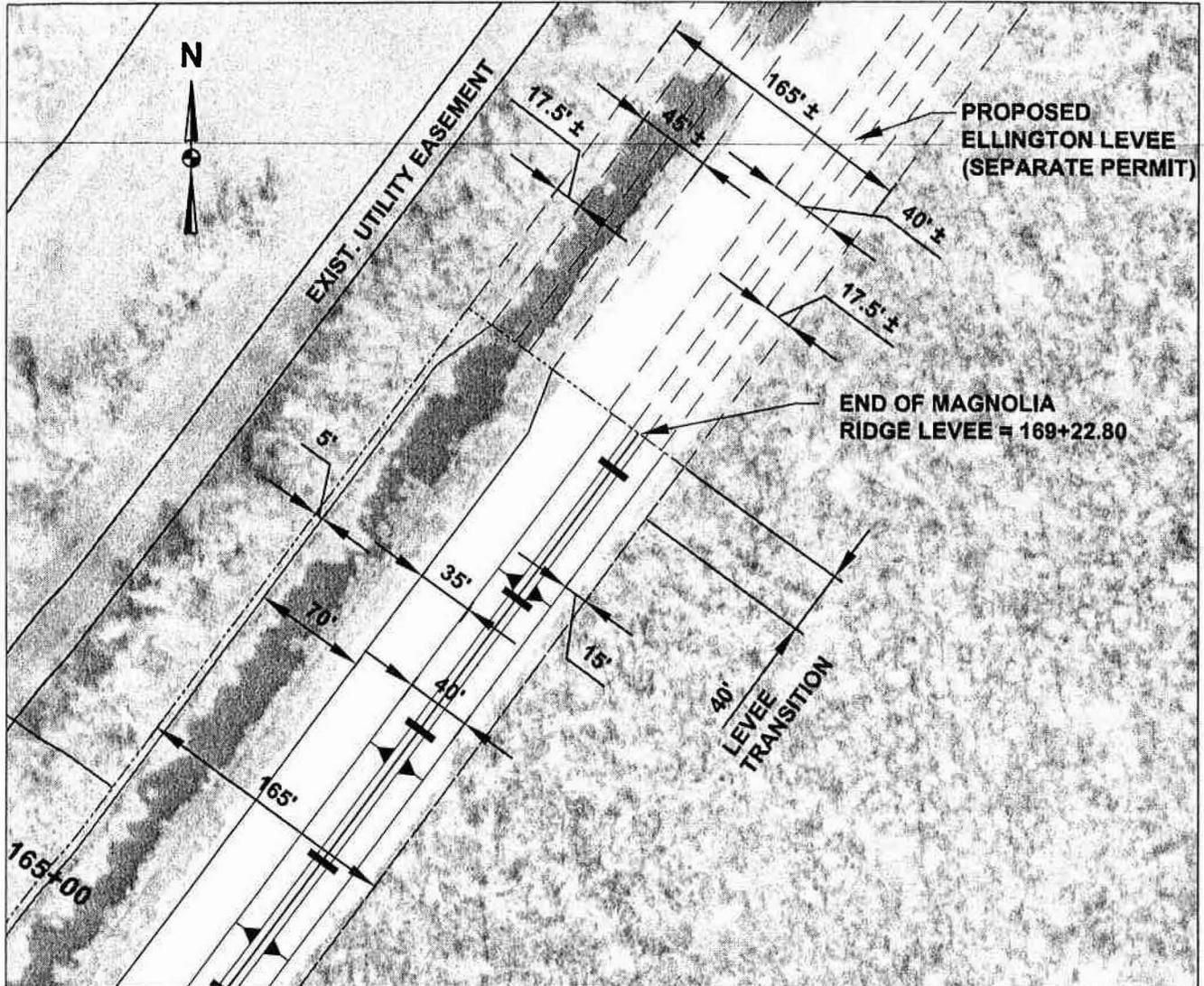
DETAILS 1, 2 & 3

BKI PROJ. NO. 10475-0100

BURK-KLEINPETER, INC.
ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
4178 CANAL STREET, NEW ORLEANS, LOUISIANA 70119-5994
(504) 486-5901 FAX (504) 488-1714

APRIL 2013

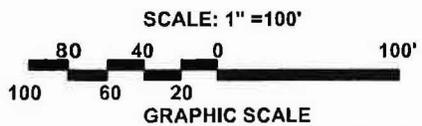
PROPOSED HURRICANE PROTECTION LEVEE MAGNOLIA RIDGE AREA ST. CHARLES PARISH, LOUISIANA



DETAIL 4 - LEVEE TRANSITION
SCALE: 1" = 100'

LEGEND:

- LEVEE RIGHT OF WAY
- LEVEE BASELINE

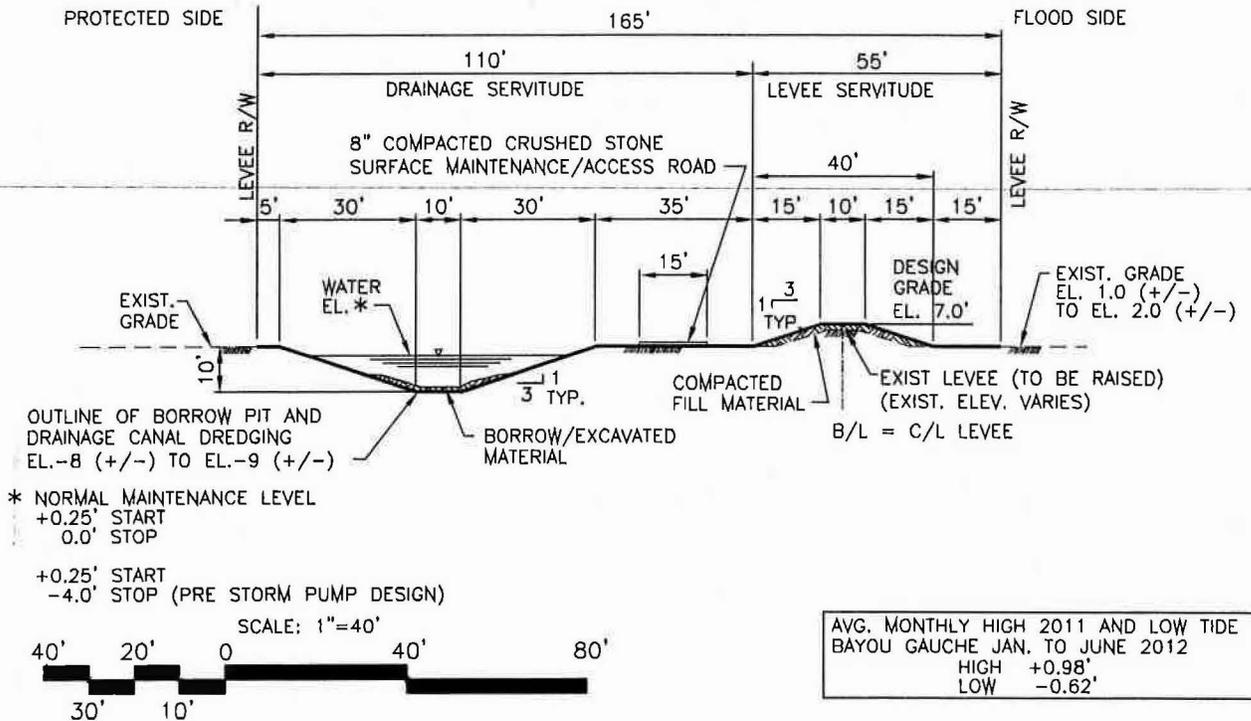


PARISH OF ST. CHARLES
APPLICATION BY: PARISH OF ST. CHARLES
SHEET: 16 OF 23

BURK-KLEINPETER, INC.
ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
4176 CANAL STREET, NEW ORLEANS, LOUISIANA 70119-5994
(504) 486-5901 FAX (504) 488-1714

BKI PROJ. NO. 10475-0100 APRIL 2013

PROPOSED HURRICANE PROTECTION LEVEE MAGNOLIA RIDGE AREA ST. CHARLES PARISH, LOUISIANA



LEVEE/CANAL TYPICAL SECTION



LEGEND:

FILL (LEVEE AND EXIST. DITCH)

PARISH OF ST. CHARLES
APPLICATION BY: PARISH OF ST. CHARLES

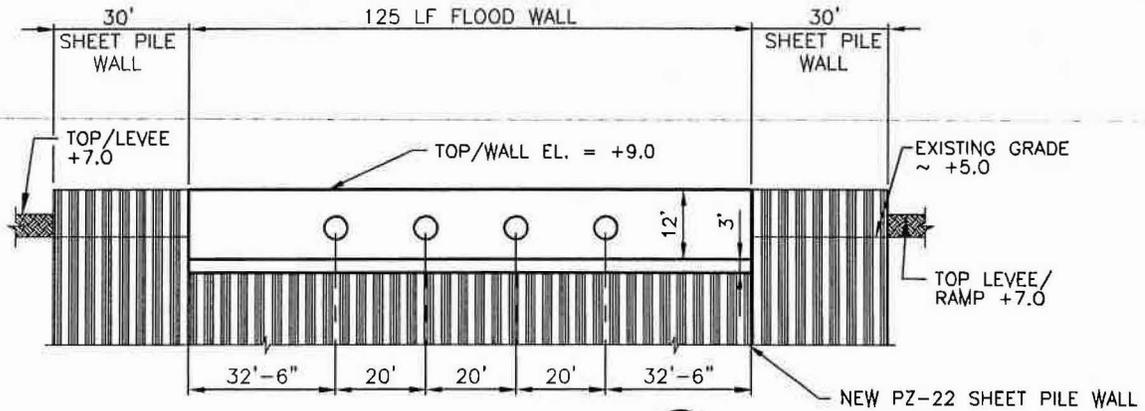
SHEET: 17 OF 23 LEVEE/CANAL & ACCESS ROAD TYPICAL SECTION

BURK-KLEINPETER, INC.
ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
4176 CANAL STREET, NEW ORLEANS, LOUISIANA 70119-5994
(504) 486-5901 FAX (504) 488-1714

BKI PROJ. NO. 10475-0100

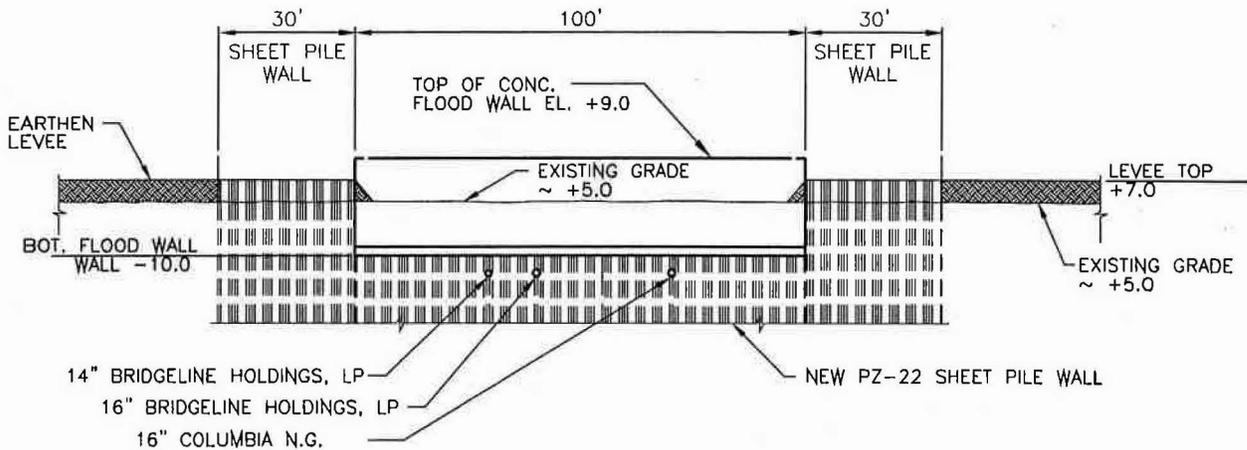
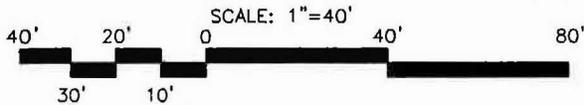
APRIL 2013

PROPOSED HURRICANE PROTECTION LEVEE MAGNOLIA RIDGE AREA ST. CHARLES PARISH, LOUISIANA



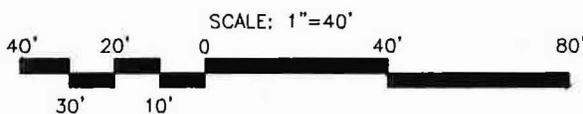
ELEVATION A
13/18

T-WALL AT MAGNOLIA RIDGE PUMP STATION



ELEVATION B
15/18

FLOOD WALL AT PIPELINE CROSSINGS (TYP.)



LEGEND:



EARTHEN LEVEE

PARISH OF ST. CHARLES
APPLICATION BY: PARISH OF ST. CHARLES

SHEET: 18 OF 23

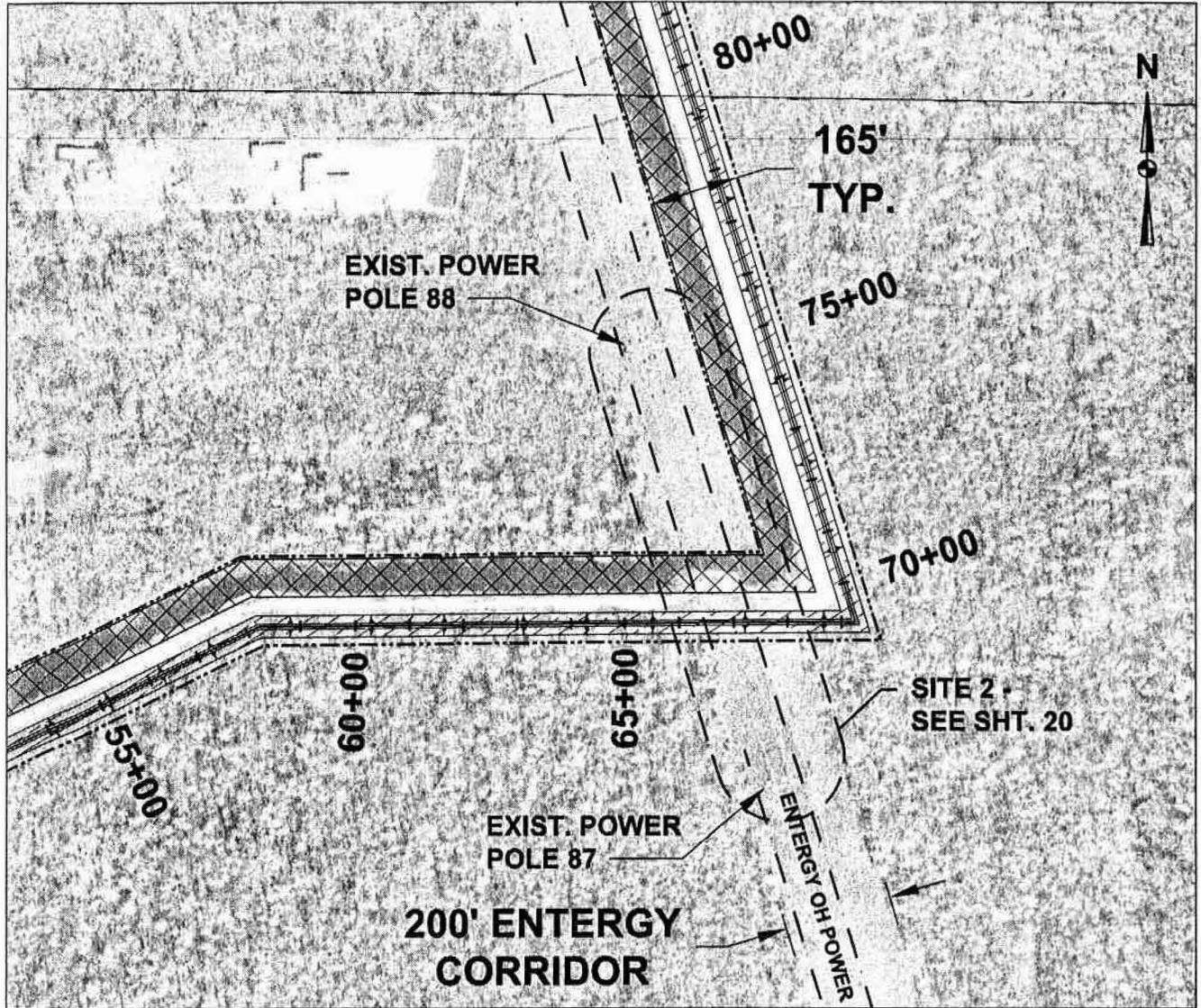
FLOOD WALL ELEVATIONS "A" & "B"

BURK-KLEINPETER, INC.
ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
4176 CANAL STREET, NEW ORLEANS, LOUISIANA 70119-5994
(504) 486-5901 FAX (504) 488-1714

BKI PROJ. NO. 10475-0100

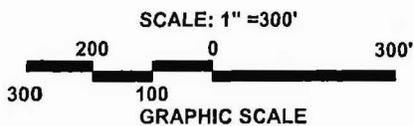
APRIL 2013

PROPOSED HURRICANE PROTECTION LEVEE MAGNOLIA RIDGE AREA ST. CHARLES PARISH, LOUISIANA



LEGEND:

- LEVEE RIGHT OF WAY
- LEVEE BASELINE
- ==== ENERGY OVERHEAD POWER
- XXXXXX EXCAVATION (PPB)
- PPB FILL (PPB) PREVIOUSLY PERMITTED & BUILT



NOTE:

UTILITY LINES SHOWN ARE APPROXIMATE POSITIONS OF UTILITY EASEMENTS AND ARE NOT MEANT TO INDICATE ACTUAL OWNERSHIP OR POSITION OF PIPELINE OR POWERLINES.

PARISH OF ST. CHARLES
APPLICATION BY: PARISH OF ST. CHARLES

SHEET: 19 OF 23

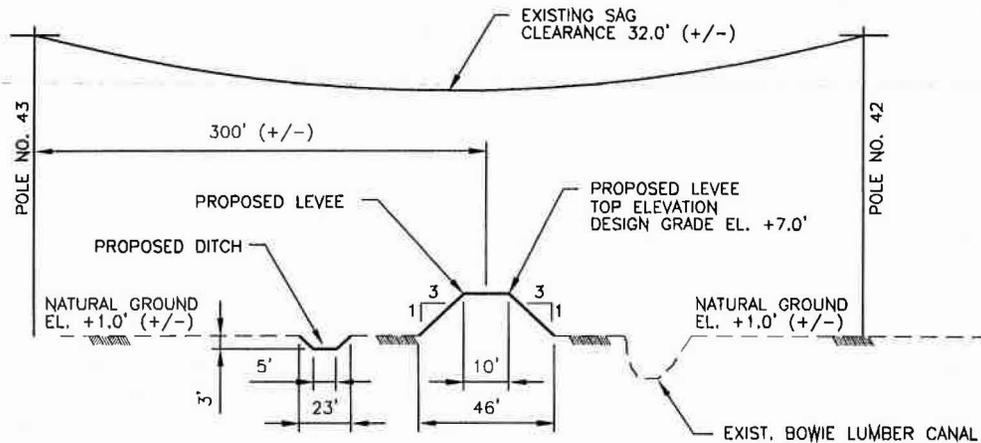
TRANSMISSION LINE CROSSING PLAN

BURK-KLEINPETER, INC.
ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
4176 CANAL STREET, NEW ORLEANS, LOUISIANA 70119-5994
(504) 486-5901 FAX (504) 488-1714

BKI PROJ. NO. 10475-0100

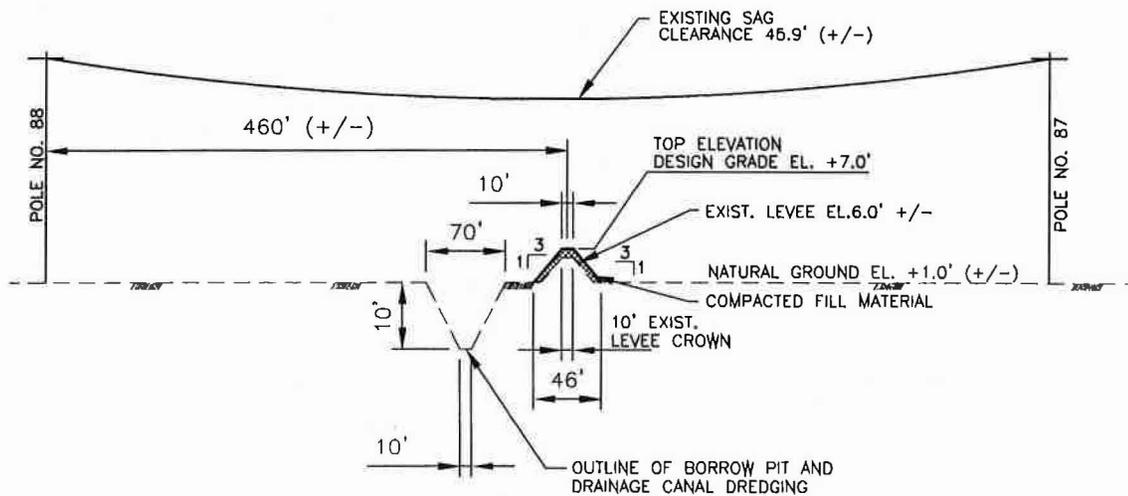
APRIL 2013

PROPOSED HURRICANE PROTECTION LEVEE MAGNOLIA RIDGE AREA ST. CHARLES PARISH, LOUISIANA TRANSMISSION LINE CROSSINGS



SITE 1

SEE SHEET 13



SITE 2

SEE SHEET 19

TRANSMISSION LINE CROSSINGS

SCALE: NTS

PARISH OF ST. CHARLES
APPLICATION BY: PARISH OF ST. CHARLES

SHEET: 20 OF 23

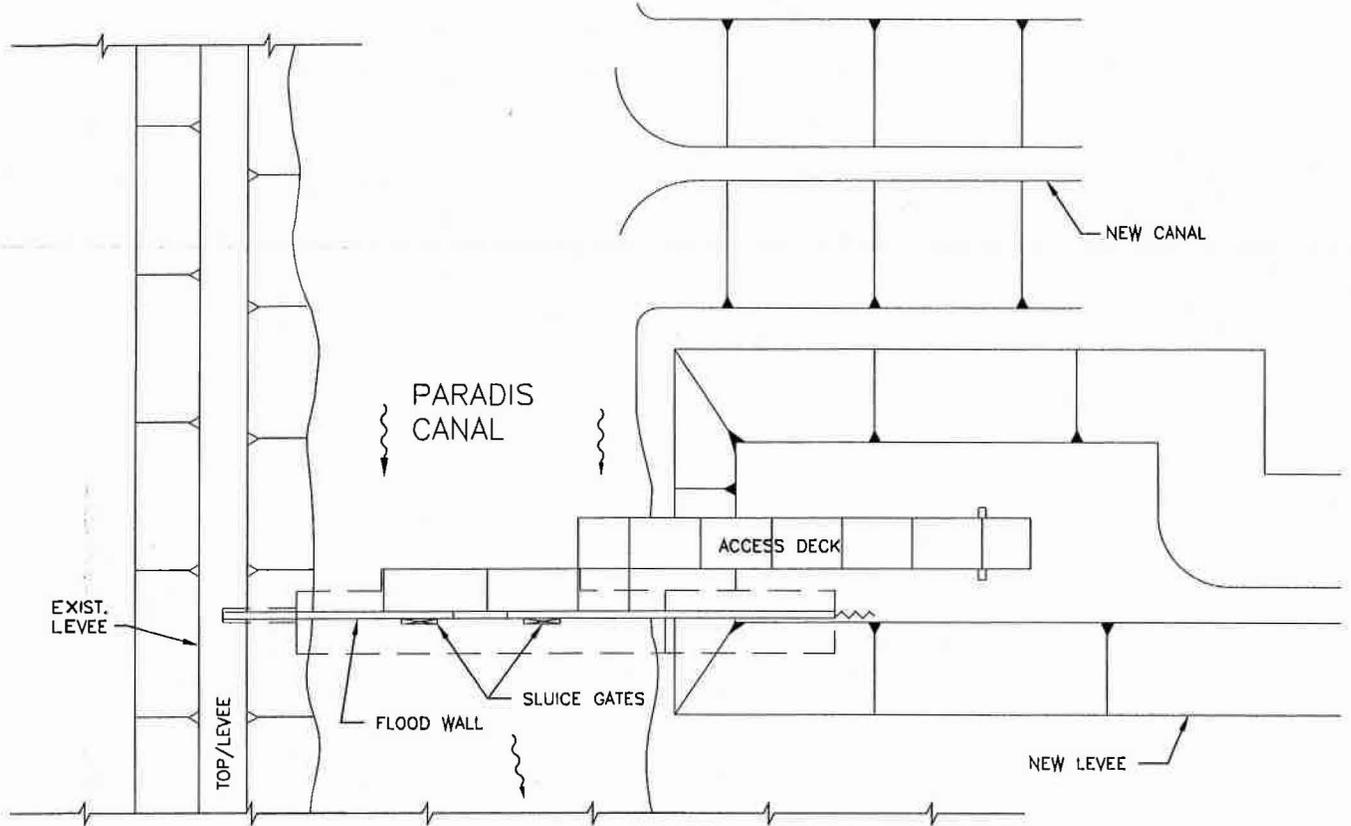
TRANSMISSION LINE CROSSINGS SECTION

BURK-KLEINPETER, INC.
ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
4176 CANAL STREET, NEW ORLEANS, LOUISIANA 70119-5994
(504) 486-5901 FAX (504) 488-1714

BKI PROJ. NO. 10475-0100

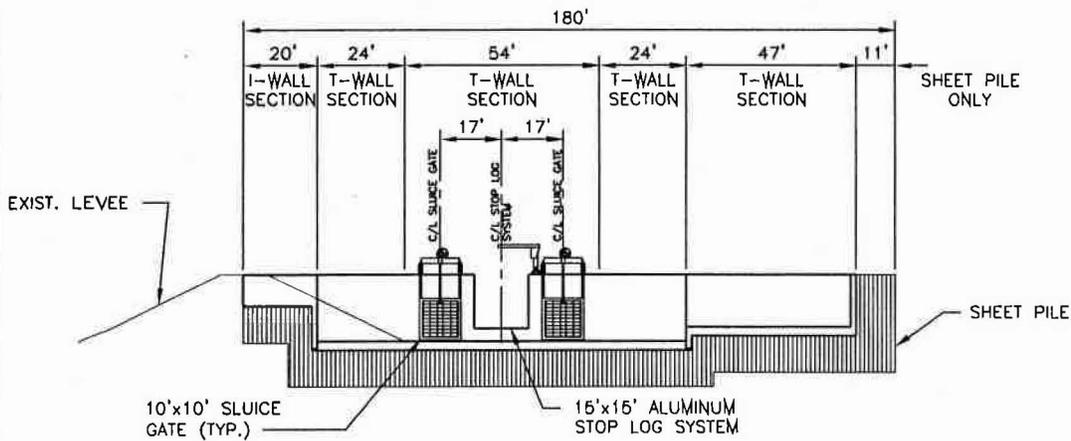
APRIL 2013

PROPOSED HURRICANE PROTECTION LEVEE MAGNOLIA RIDGE AREA ST. CHARLES PARISH, LOUISIANA



CLOSURE STRUCTURE PLAN (PPNB)

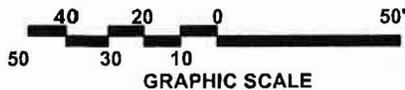
SCALE: 1" = 50'



CLOSURE STRUCTURE ELEVATION (PPNB)

SCALE: 1" = 50'

SCALE: 1" = 50'



PPNB = PREVIOUSLY PERMITTED & NOT BUILT

PARISH OF ST. CHARLES
APPLICATION BY: **PARISH OF ST. CHARLES**

SHEET: 21 OF 23

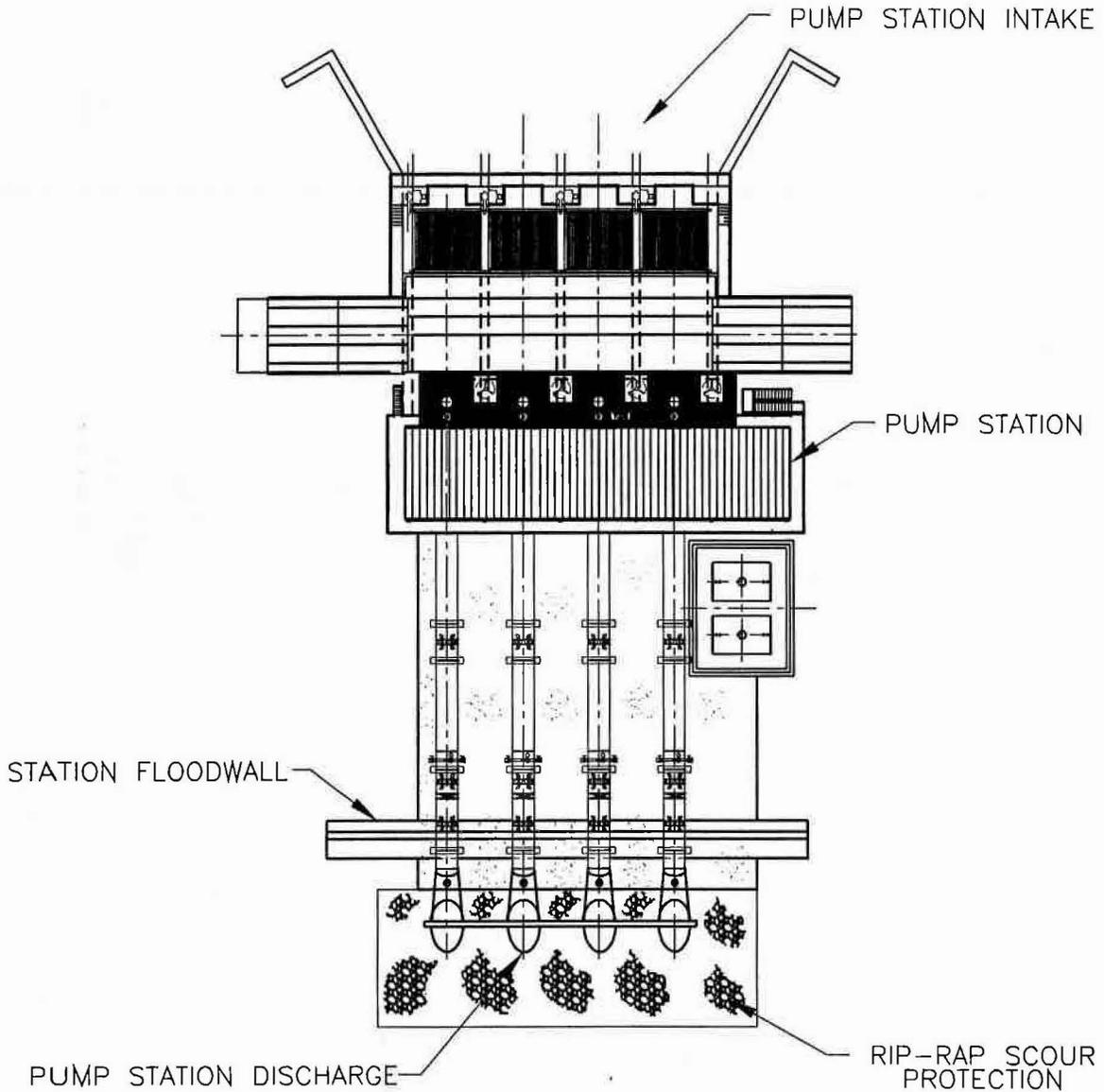
PARADIS CANAL CLOSURE STRUCTURE

BURK-KLEINPETER, INC.
ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
4176 CANAL STREET, NEW ORLEANS, LOUISIANA 70119-5994
(504) 486-5901 FAX (504) 488-1714

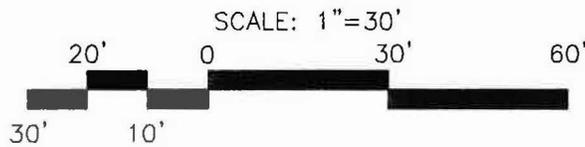
BKI PROJ. NO. 10475-0100

APRIL 2013

**PROPOSED HURRICANE PROTECTION LEVEE
MAGNOLIA RIDGE AREA
ST. CHARLES PARISH, LOUISIANA**



MAGNOLIA RIDGE PUMPING STATION PLAN (PPNB)

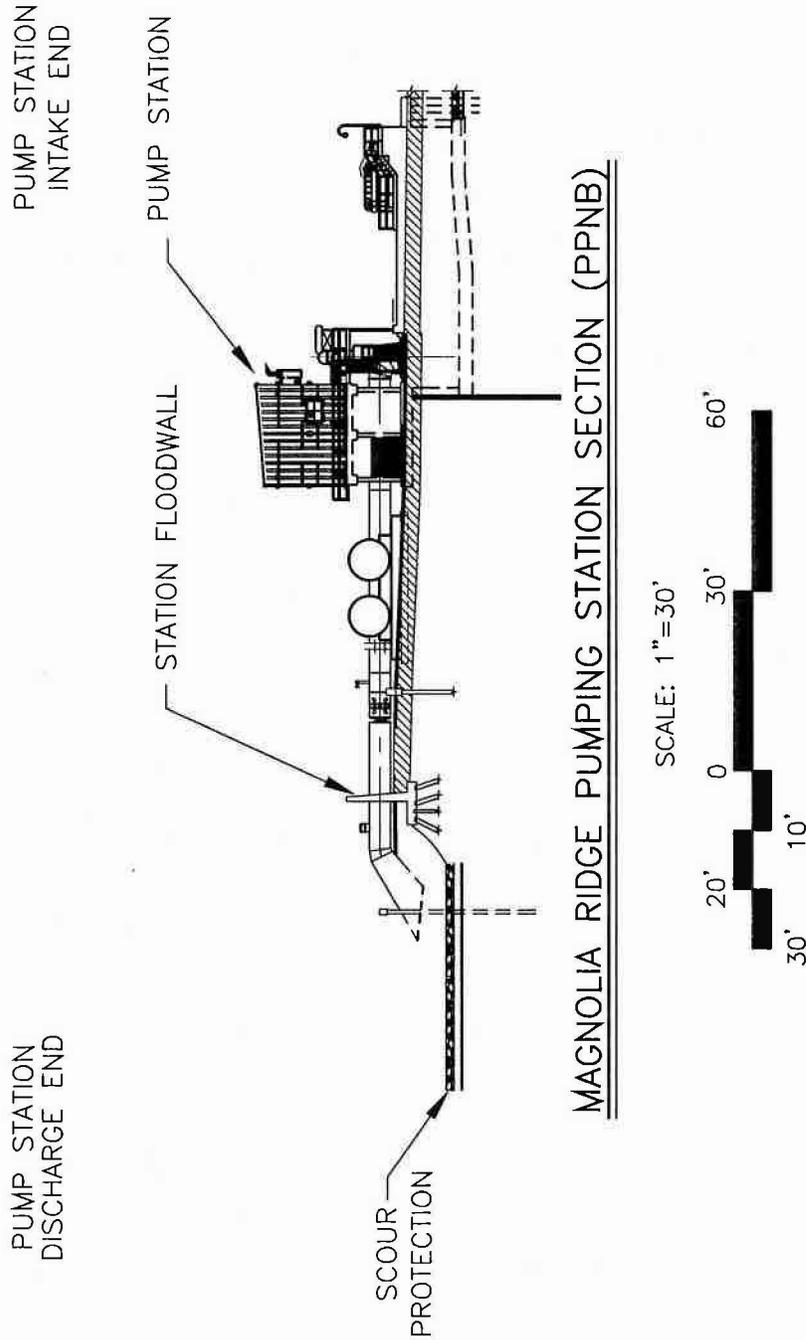


PPNB = PREVIOUSLY PERMITTED & NOT BUILT

PARISH OF ST. CHARLES
APPLICATION BY: PARISH OF ST. CHARLES
 SHEET: 22 OF 23 MAGNOLIA RIDGE PUMPING STATION PLAN

BURK-KLEINPETER, INC.
 ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
 4176 CANAL STREET, NEW ORLEANS, LOUISIANA 70119-5994
 (504) 486-5901 FAX (504) 488-1714
BKI PROJ. NO. 10475-0100 APRIL 2013

PROPOSED HURRICANE PROTECTION LEVEL MAGNOLIA RIDGE AREA ST. CHARLES PARISH, LOUISIANA



PPNB = PREVIOUSLY PERMITTED & NOT BUILT

PARISH OF ST. CHARLES
APPLICATION BY: PARISH OF ST. CHARLES

SHEET: 23 OF 23 **MAGNOLIA RIDGE PUMPING STATION SECTION**

BURK-KLEINPETER, INC.
 ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
 4176 CANAL STREET, NEW ORLEANS, LOUISIANA 70119-5994
 (504) 486-5901 FAX (504) 488-1714

BKI PROJ. NO. 10475-0100

APRIL 2013

West Bank Hurricane Protection Levee
Phase I – Magnolia Ridge Hurricane Protection Levee System
St. Charles Parish

Joint Use Permit Application

Operations Plan

September, 2012

GENERAL

In order to protect and maintain the health of valuable natural resources and at the same time provide needed hurricane protection, including protection from excessively high tides, the following Operations Plan has been developed for the proposed Magnolia Ridge (Phase I) Hurricane Protection Levee system.

OBJECTIVES

This Operations Plan distinguishes between “Normal” operational conditions and “Emergency” operational conditions. In the Normal Operational Conditions the Closure Structure (Item B, below) will remain open to allow flow for Paradis Canal, and the proposed Magnolia Ridge Pumping station will operate according to the requirements of rainfall to keep the inhabited areas free of flooding.

Notes:

1. Reference is made to the Coastal Use Permit Application, latest revision.
2. All elevations are in NAVD 88- 2004.65 Datum.

OPERATIONAL STRUCTURES

(See Permit Application sheet 7 of 23 for location of structures by alphabetic callout)

Named Structures in Permit Application

- Item A. Proposed (Magnolia Ridge) Pumping Station
- Item B. Proposed Closure Structure (normally opened)
- Item C. Proposed 100’ Weir (not an operational structure)
- Item D. Proposed Pipeline Crossing thru T-Wall (not an operational structure)

I. NORMAL OPERATIONAL CONDITIONS

Normal operational conditions are considered to be a rainfall storm up to a 10-yr. event and tides below Elev. +2.0.

Water levels in the Magnolia Ridge Canal

Canal Normal Water Level	(-)2.0 ft.
Canal Allowable High Water (10-yr. storm)	0.1 ft.
Paradis Swamp ¹ Allowable High Water (10-yr. storm)	2.0 ft.

- A. Pump Station – **Start +0.5, Stop 0.1**
- B. Closure Structure - **Open**
- C. 100' Weir – **N/A** - Not an operational structure
- D. Pipeline Crossing thru T-Wall – **N/A** - Not an operational structure

Gated Culverts between the Ellington system (separate permit) and the Magnolia Ridge system – normally closed.

II. EMERGENCY OPERATIONAL CONDITIONS

The following events are considered “Emergency Conditions”:

1. Conditions due to extreme rainfall (greater than 10-year intensity, non-tropical storm).
2. Conditions due to approaching hurricane or tropical storm.
3. Conditions caused by stoppage (planned or unplanned) of either the Ellington Pumping Station or the Willowridge Pumping Station.

Notes:

1. Normal Conditions prevail once event causing emergency condition has ended.
2. USACE-NOD must be notified and documentation provided when an Emergency Condition arises.

Water levels in the Magnolia Ridge Canal

Canal Normal Water Level	(-)2.0 ft.
Canal Allowable High Water (100-yr. storm)	1.5 ft.
Paradis Swamp Allowable High Water (100-yr. storm)	2.0 ft.

A. Surge Event-

1. National Weather Service Notice: Hurricane/Tropical Storm Warning for Coastal Louisiana.

- A. Pump Station – **Start and Stop as needed** (Suction Bay to El. (-)4.0 for pre-pump)
- B. Closure Structure – **Open/Closed**
- C. 100' Weir – **N/A**- Not an operational structure
- D. Pipeline Crossing thru T-Wall – **N/A**- Not an operational structure

¹ No Biological investigation has been performed for the Paradis Swamp; however water surface elevation of 2' should be adequate to maintain the vegetation in the Paradis Swamp. The existing elevation of the berm around the Hahnville High School appears to have gaps less than elevation of 2' and should be raised to protect the school from higher water levels from the Swamp.

2. High Tide greater than elevation +2.0 NAVD88 w/o NWS notice.

- A. Pump Station – **Start and Stop as needed** (Suction Bay to El. (-)4.0)
- B. Closure Structure - **Closed**
- C. 100' Weir – **N/A**- Not an operational structure
- D. Pipeline Crossing thru T-Wall – **N/A**- Not an operational structure

B. Rainfall Event-

- 1. National Weather Service Notice: Projected major rainfall event for Coastal Louisiana.

- A. Pump Station – **Start and Stop as needed** (Suction Bay to El. (-)4.0)
- B. Closure Structure – **Open/Closed**
- C. 100' Weir –**N/A**- Not an operational structure
- D. Pipeline Crossing thru T-Wall –**N/A**- Not an operational structure

C. Special Operational Event-

- 1. Events deemed necessary by public works director.
- 2. Notification and Documentation must be provided to USACE-NOD

- A. Pump Station – **Start and Stop as needed** (Suction Bay to El. (-)4.0)
- B. Closure Structure – **Open/Closed**
- C. 100' Weir –**N/A**- Not an operational structure
- D. Pipeline Crossing thru T-Wall –**N/A**- Not an operational structure

Under any of the above emergency conditions the following may be implemented at the discretion of the Director of Public Works:

- A. Gated Culverts between the Ellington system and the Magnolia Ridge system could be opened according to the Ellington CUP (P20100821) Operations Plan.

III. DOCUMENTATION

- A. Monitoring of the basin water levels, gate closures, and pumping operations is necessary to insure that wetland habitat values of the basin will not be compromised. A record of each emergency operation is to document the event by storm name, and type, date and time of operation, duration of operation, and lowest interior water levels of the basin.
- B. Operations Plan to be administered under Parish Council Ordinance.

END OPERATIONS PLAN

DEPARTMENT OF THE ARMY PERMIT

Permittee: St. Charles Parish Department of Public Works

Permit No.: EM-20-000-0722

Issuing Office: New Orleans District

NOTE: The term "you" and its derivatives, as used in this permit, means the permittee or any future transferee. The term "this office" refers to the appropriate district or division office of the Corps of Engineers having jurisdiction over the permitted activity or the appropriate official of that office acting under the authority of the commanding officer.

You are authorized to perform work in accordance with the terms and conditions specified below.

Project Description: Dredge and maintain areas and install and maintain a levee system, pumping station, weirs, gates, culverts, fill, and appurtenances for a storm surge flood protection system, in accordance with the drawings attached in eleven sheets, dated August 31, 2001, September 28, 2001, and March 6, 2002.

Project Location: Near Boutte, Louisiana, in St. Charles Parish.

Permit Conditions:

General Conditions:

1. The time limit for completing the work authorized ends on **MARCH 31, 2007**. If you find that you need more time to complete the authorized activity, submit your request for a time extension to this office for consideration at least 1 month before the above date is reached.
2. You must maintain the activity authorized by this permit in good condition and in conformance with the terms and conditions of this permit. You are not relieved of this requirement if you abandon the permitted activity, although you may make a good faith transfer to a third party in compliance with General Condition 4 below. Should you wish to cease to maintain the authorized activity or should you desire to abandon it without a good faith transfer, you must obtain a modification of this permit from this office, which may require restoration of the area.
3. If you discover any previously unknown historic or archeological remains while accomplishing the activity authorized by this permit, you must immediately notify this office of what you have found. We will initiate the Federal and State coordination required to determine if the remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.

4. If you sell the property associated with this permit, you must obtain the signature of the new owner in the space provided and forward a copy of the permit to this office to validate the transfer of this authorization.
5. If a conditioned water quality certification has been issued for your project, you must comply with the conditions specified in the certification as special conditions to this permit. For your convenience, a copy of the certification is attached if it contains such conditions.
6. You must allow representatives from this office to inspect the authorized activity at any time deemed necessary to ensure that it is being or has been accomplished in accordance with the terms and conditions of your permit.

Special Conditions: See Pages 4-7.

Further Information:

1. Congressional Authorities: You have been authorized to undertake the activity described above pursuant to:

- Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403).
- Section 404 of the Clean Water Act (33 U.S.C. 1344).
- Section 103 of the Marine Protection, Research and Sanctuaries Act of 1972 (33 U.S.C. 1413).

2. Limits of this authorization.

- a. This permit does not obviate the need to obtain other Federal, State, or local authorizations required by law.
- b. This permit does not grant any property rights or exclusive privileges.
- c. This permit does not authorize any injury to the property or rights of others.
- d. This permit does not authorize interference with any existing or proposed Federal project.

3. Limits of Federal Liability. In issuing this permit, the Federal Government does not assume any liability for the following:

- a. Damages to the permitted project or uses thereof as a result of other permitted or unpermitted activities or from natural causes.
- b. Damages to the permitted project or uses thereof as a result of current or future activities undertaken by or on behalf of the United States in the public interest.
- c. Damages to persons, property, or to other permitted or unpermitted activities or structures caused by the activity authorized by this permit.
- d. Design or construction deficiencies associated with the permitted work.

- e. Damage claims associated with any future modification, suspension, or revocation of this permit.
4. Reliance on Applicant's Data: The determination of this office that issuance of this permit is not contrary to the public interest was made in reliance on the information you provided.
5. Reevaluation of Permit Decision. This office may reevaluate its decision on this permit at any time the circumstances warrant. Circumstances that could require a reevaluation include, but are not limited to, the following:
- a. You fail to comply with the terms and conditions of this permit.
 - b. The information provided by you in support of your permit application proves to have been false, incomplete, or inaccurate (See 4 above).
 - c. Significant new information surfaces which this office did not consider in reaching the original public interest decision.

Such a reevaluation may result in a determination that it is appropriate to use the suspension, modification, and revocation procedures contained in 33 CFR 325.7 or enforcement procedures such as those contained in 33 CFR 326.4 and 326.5. The referenced enforcement procedures provide for the issuance of an administrative order requiring you to comply with the terms and conditions of your permit and for the initiation of legal action where appropriate. You will be required to pay for any corrective measures ordered by this office, and if you fail to comply with such directive, this office may in certain situations (such as those specified in 33 CFR 209.170) accomplish the corrective measures by contract or otherwise and bill you for the cost.

6. Extensions. General condition 1 establishes a time limit for the completion of the activity authorized by this permit. Unless there are circumstances requiring either a prompt completion of the authorized activity or a reevaluation of the public interest decision, the Corps will normally give favorable consideration to a request for an extension of this time limit.

Your signature below, as permittee, indicates that you accept and agree to comply with the terms and conditions of this permit.

X Albert D. Lague X 3/14/2002
 (PERMITTEE) (DATE)

This permit becomes effective when the Federal official, designated to act for the Secretary of the Army, has signed below.

Ronnie W. Duke March 19, 2002
 (DATE)
 Ronnie W. Duke Chief, Eastern Evaluation Section
 for Thomas F. Julich, District Engineer

When the structures or work authorized by this permit are still in existence at the time the property is transferred, the terms and conditions of this permit will continue to be binding on the new owner(s) of the property. To validate the transfer of this permit and the associated liabilities associated with compliance with its terms and conditions, have the transferee sign and date below.

 (TRANSFEREE) (DATE)

SPECIAL CONDITIONS
EM-20-000-0722

7. Wetlands occurring within the leveed area serve to store storm water runoff during extreme rainfall events. Development of these wetlands would seriously affect the ability of the flood protection system to function as designed. Therefore, the permittee shall maintain free water exchange at all times except for storm events and interior water levels shall be maintained in accordance with the attached "Interior Water Level Management Plan".

8. The permittee understands and agrees that, if future operations by the United States require the removal, relocation, or other alteration, of the structure or work herein authorized, or if, in the opinion of the Secretary of the Army or his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the permittee will be required, upon due notice from the Corps of Engineers, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim shall be made against the United States on account of any such removal or alteration.

9. Any modifications to the levee alignment as authorized by this permit must be approved by the New Orleans District and Louisiana Department of Natural Resources Coastal Management Division prior to implementation of such levee alignment deviations.

10. The authorized leveed area may not be tied into the Cousins Canal pumping station or any other pumping facilities that could drain the area or circumvent the water level management plan.

11. The permittee shall conduct vegetative monitoring of the interior wetlands utilizing the Land Condition Trend Analysis. Any questions concerning Land Condition Trend Analysis should be directed to the Regulatory Branch of this office or the Lafayette Field Office of the U.S. Fish and Wildlife Service. The sampling area shall consist of a 1000-foot long by 6-foot wide line transect, aligned perpendicular to the proposed levee alignment. The location of the proposed transect is noted on sheet III-A of the attached drawings. The survey line will transect known upland areas, the upland/wetland interface and known wetlands. Sampling points will be located at 10-foot intervals along the entire 1000-foot transect length to record vegetation in the herb and shrub layer. Data on woody vegetation will also be recorded.

SPECIAL CONDITIONS
EM-20-000-0722

Data collected at each sampling point will include evidence of surface disturbance, plant species, wetland/nonwetland status (i.e. upl, fac, facw, or obl), and ground cover. Community type (i.e. upland, bottomland hardwood, fresh swamp) will also be determined at 25-foot intervals along the entire transect length. Monitoring will be conducted as close as possible to May 1. Monitoring shall be conducted on a yearly basis (i.e. May 1st of each year) for years 1 through 10 and biannually for years 11 through 25. Monitoring results will be forwarded to the Regulatory Branch of the New Orleans District and to the Louisiana Department of Natural Resources Coastal Management Division within 60 days of each monitoring event. Should monitoring results show the project operation is having more than minimal adverse impacts to interior wetlands, then additional conditions or restrictions may be imposed to correct the situation. Should the monitoring report reveal a change in vegetative composition, an interagency team shall convene to determine what corrective measures are necessary.

12. As mitigation for project related unavoidable loss of 29.7 acres of bald cypress/tupelo swamp and 37.3 acres of bottomland hardwoods, the permittee agrees to purchase 37.7 acres of cypress tupelo swamp wetlands and 56.2 acres of bottomland hardwood wetlands from the Riverside Coastal Mitigation Lands. The permittee shall provide the Corps of Engineers, Regulatory Branch with written verification from Riverside Coastal Mitigation Lands that the financial arrangements have been made within 10 days of payment. This verification shall be provided by August 1 following permit issuance or prior to commencement of the work authorized by this permit, whichever comes first.

13. The compensatory mitigation identified above has been determined to be a necessary and critical part of this permit approval. Failure by the permittee to perform the mitigation, in accordance with the permit conditions, is considered grounds for permit suspension and revocation, and restoration of the permit site.

14. As per St. Charles Parish Ordinance No. 01-9-3, the Magnolia Ridge Ranchettes (Lots 1 through 17) shall be prohibited from further subdivision of the existing lots, except where two or more owners desire to subdivide a common lot between them in order to increase the size of their respective adjoining properties. At any time in the future, if St. Charles Parish wishes to amend or eliminate this ordinance, then the Parish must petition and receive approval from the Corps of Engineers and the Louisiana Department of Natural Resources Coastal Management Division.

SPECIAL CONDITIONS
EM-20-000-0722

15. The permittee shall conduct a Phase 1 cultural resources survey of the proposed levee alignment and the results coordinated with Louisiana State Historic Preservation Officer. Based on the findings of the survey, all necessary steps will be taken to achieve National Historic Preservation Action Section 106 compliance.
16. The permittee shall install and maintain staff gages in Paradis Canal immediately inside and outside the north and south gated structures and immediately inside and outside the pump station. Staff gages shall be calibrated to NAVD and set by a licensed land surveyor.
17. The extent of clearing shall not exceed right-of-way limits.
18. The permittee shall provide to the Corps of Engineers "as-built" drawings certified by a licensed engineer or land surveyor within six (6) months of completion of work authorized by this permit. "As-built" drawings shall consist of a plan view (scale 1"=200') and a centerline profile of the levee and borrow canal. In lieu of 8½ by 11-inch sheets, larger scale drawings may be used.
19. The permittee shall complete the attached Interior Water Level Management Plan Report Form for each operation of the pump and/or gated culverts. The permittee shall submit completed forms annually to the Corps of Engineers New Orleans District office. If the pumping station and gates have not been operated during the calendar year except for testing and maintenance, the report form will be so noted and submitted. Completed forms must be received no later than January 31 following the operational year.
20. The permittee shall allow, or make arrangements for, representatives of the Corps of Engineers, Louisiana Department of Natural Resources Coastal Management Division or authorized agents to make periodic, unannounced inspections to assure the structures are operating in accordance with the conditions of this permit.
21. The permittee shall seed the earthen embankment within 30 days of completion of earth work. If the work is performed during the period of January through July, Bahia grass shall be used to seed the area at an application rate of 5 pounds per acre. If the work is performed during the period of August through December, rye grass shall be used to seed the area at an application rate of 25 pounds per acre.

SPECIAL CONDITIONS

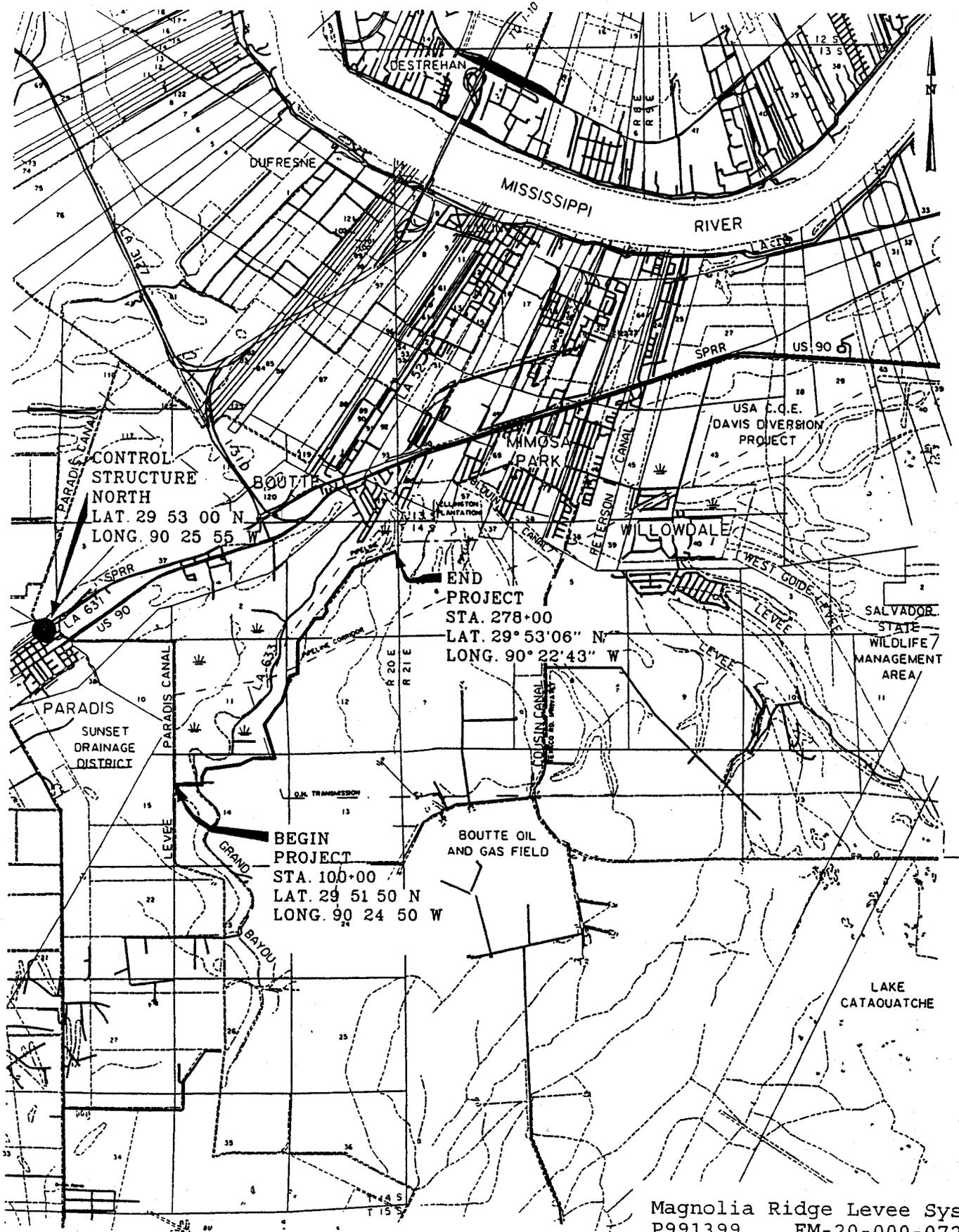
EM-20-000-0722

22. You must install and maintain, at your expense, any safety lights, signs and signals prescribed by the US Coast Guard, through regulations or otherwise, on your authorized facilities.
23. Your use of the permitted activity must not interfere with the public's right to free navigation on all navigable waters of the United States.
24. Maintenance dredging for material to maintain levees is authorized under this permit for a period of ten (10) years from the date of permit issuance. Maintenance operations shall not exceed specifications as shown on permit drawings without prior authorization from the Corps of Engineers. Material for maintenance of these structures shall be obtained from non-vegetated open water sites or hauled in from non-wetland sites.
25. Water control gates shall be maintained in the open position and kept clear of debris and vegetation to insure free water exchange.
26. Utilization of pumping facilities to draw down water levels below those stipulated in the water level management plan for the purpose of draining wetlands is strictly prohibited and such action could result in permit suspension and the permittee required to remove the pump facilities and other water control structures, degrade levees to allow free exchange of surface flows and provide possible compensatory mitigation to compensate for any resulting wetland impacts.

PROJECT OVERVIEW

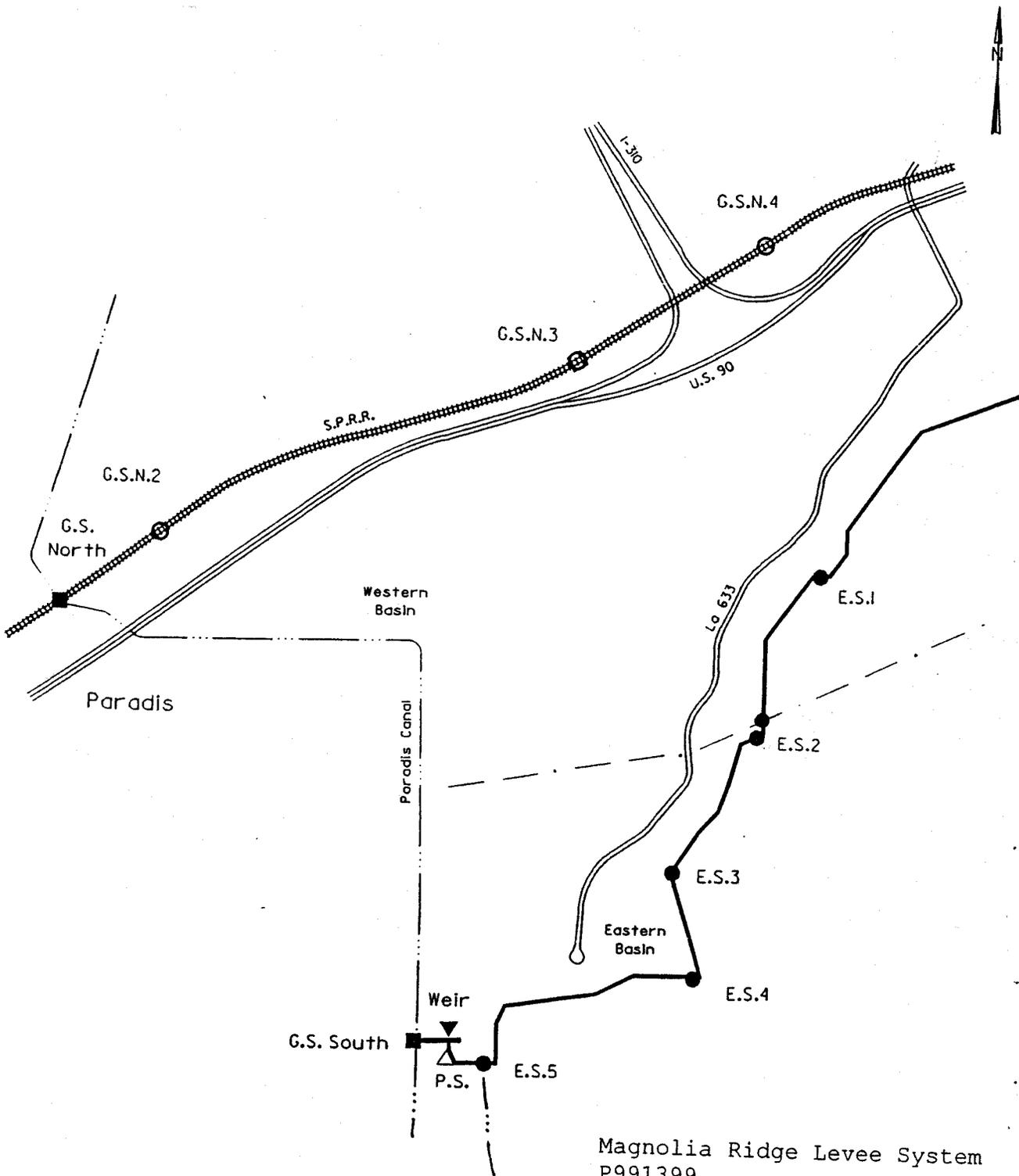
Construct a ring levee approximately 3.4 miles long to protect against storm surge flooding from Lakes Cataouatche, Salvatore, and Des Allemands. The alignment is configured to connect the Sunset Drainage District and the Holder Estates spoil bank system. The design grade of the levee is to be elevation 6.6 feet North American Vertical Datum 88 (NAVD) plus 1 foot overbuild. [NGVD = NAVD + 0.4 feet] The construction method will be uncompacted fill obtained from an adjacent 70-foot wide interior borrow ditch. Project structures include a 60-foot wide levee, a pumping station, a weir, a gated structure south with a boat bay, five equalizer sites through the levee, and four gated equalizer structures

north. A broad crest weir set at elevation 1.6 feet NAVD is positioned between the pump station and the western watershed. Gated equalizer structures are to function as drainage outfalls. The gates structures north are located across the Paradis Canal at the Southern-Pacific Railroad and at three existing opening along the railroad. The gated structure south is situation across the Paradis Canal connecting the Sunset Drainage District levee to the Magnolia Ridge levee system. Gates in the south structure provide for passage of small boats from the public boat launch ramp an US 90. A new pumping station is configured south of Magnolia Ridge Road (La.633) at the Bowie Lumber Canal. The Magnolia Ridge Pumping Station is to operate under emergency conditions only. Gated equalizer structures are to provide normal water exchange through the levee to maintain the interior wetland/nonwetland interface on the eastside of Magnolia Ridge. Four underground high-pressure gas pipelines crossed by the levee and drainage/borrow canal and three are crossed by the levee at the project terminus. The drainage channel and levee will be located approximately 50 feet from an adjacent high-pressure gas pipeline corridor for approximately 2 miles along La.633. Approximately 266,700 cubic yards of earthen material will be dredged from the adjacent borrow/drainage canal levee system to be constructed from material obtained from an adjacent borrow canal to be located on the protected side of the levee.



Magnolia Ridge Levee System
 P991399 EM-20-000-0722
 St. Charles Parish
 August 31, 2001

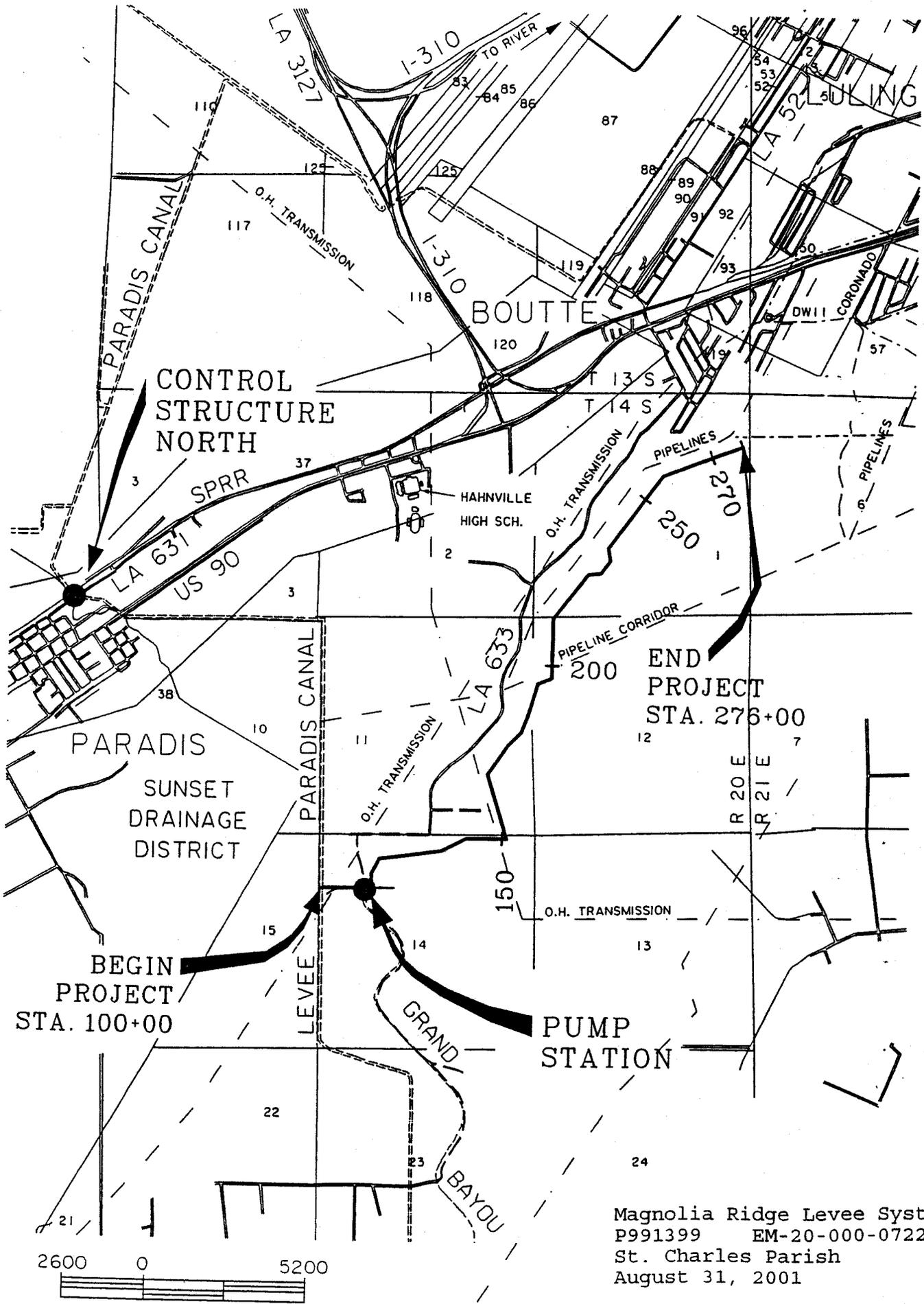
II. Vicinity Map



Magnolia Ridge Levee System
 P991399
 EM-20-000-0722
 St. Charles Parish, LA

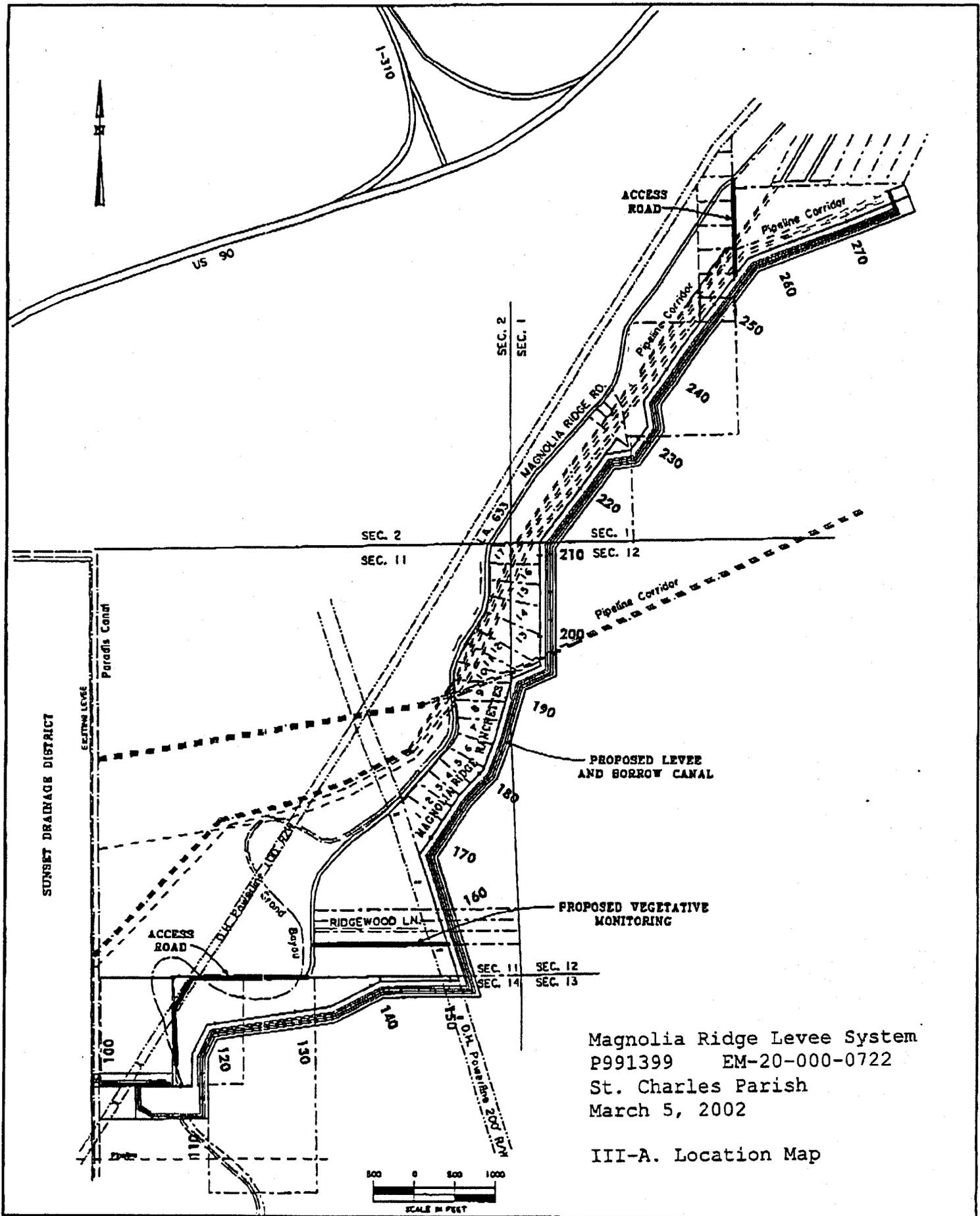
September 28, 2001

II-A



Magnolia Ridge Levee System
 P991399 EM-20-000-0722
 St. Charles Parish
 August 31, 2001

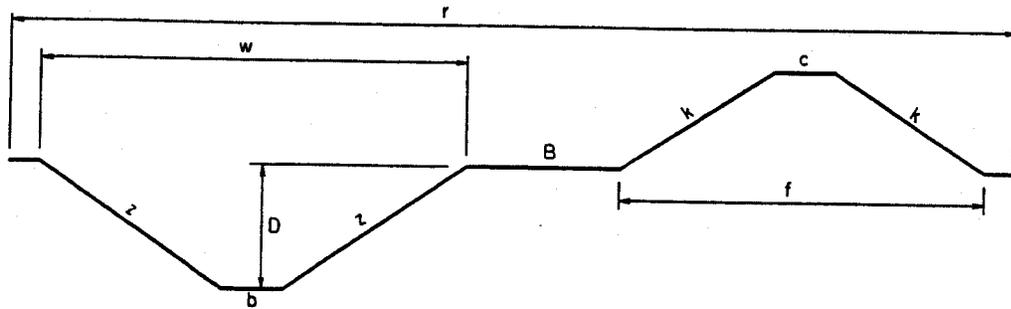
III. Location Map



Magnolia Ridge Levee System
 P991399 EM-20-000-0722
 St. Charles Parish
 March 5, 2002

III-A. Location Map

PROTECTED
SIDE

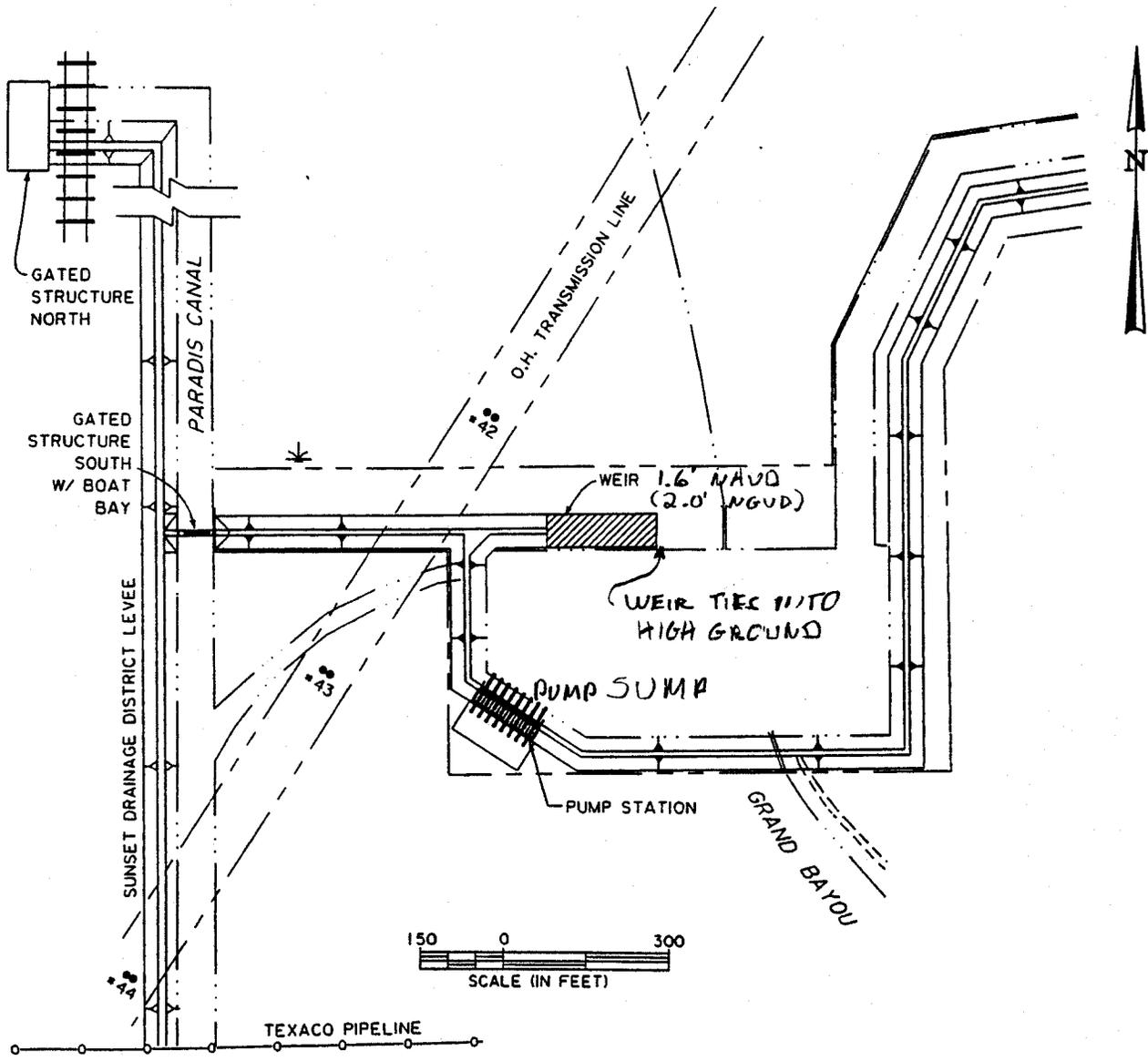


COASTAL
SIDE

- $f = 60$ feet, levee base
- $k = 3h : 1v$, levee side slopes
- $c = 10$ feet, top of levee
- $B = 25$ feet, berm
- $D = 10$ feet, depth of channel
- $W = 70$ feet, width of channel
- $Z = 3h : 1v$, channel side slopes
- $b = 10$ feet, channel bottom
- $r = 165$ feet, limits of construction

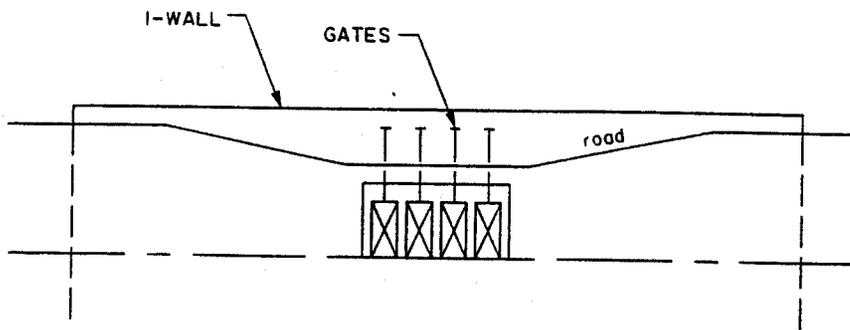
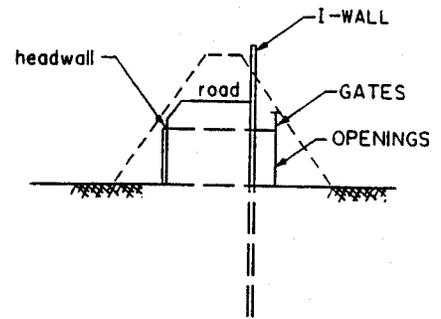
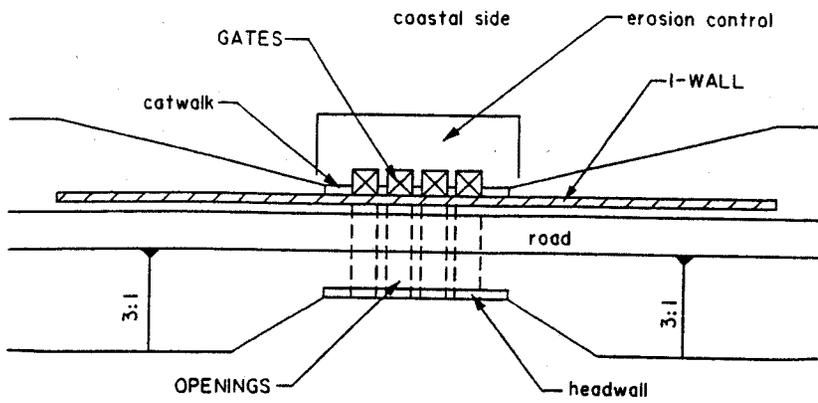
Magnolia Ridge Levee System
P991399 EM-20-000-0722
St. Charles Parish
August 31, 2001

IV. Typical Section

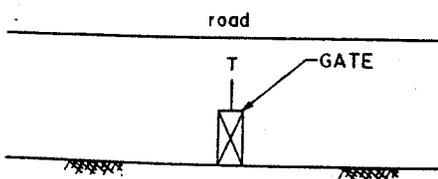
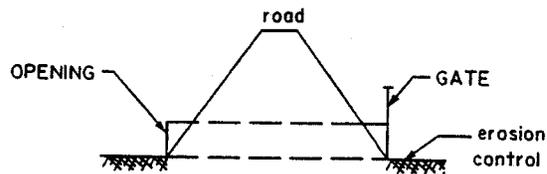
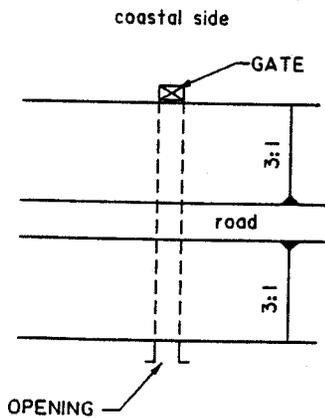


Magnolia Ridge Levee System
 P991399 EM-20-000-0722
 St. Charles Parish
 August 31, 2001

V. Pump Station



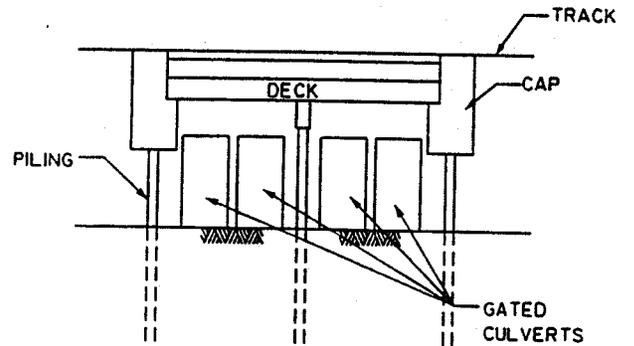
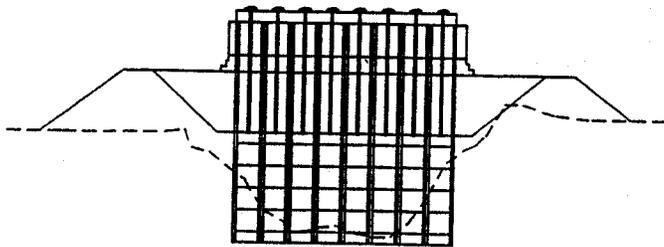
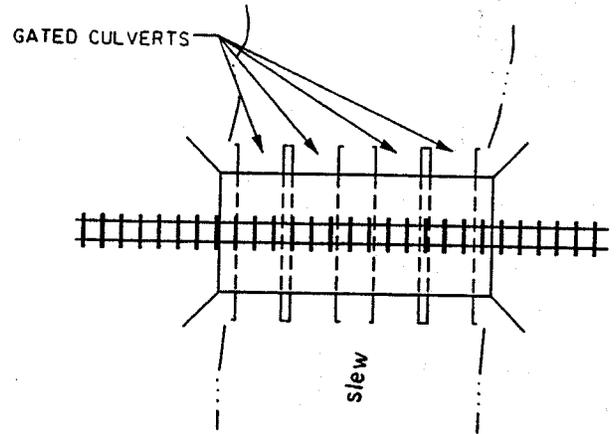
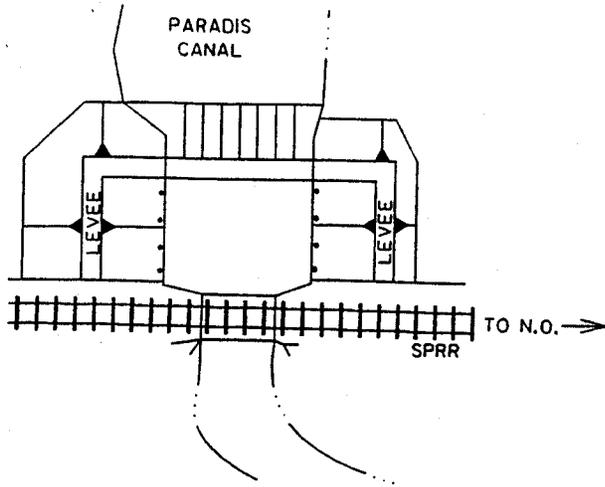
TYPE I



TYPE II

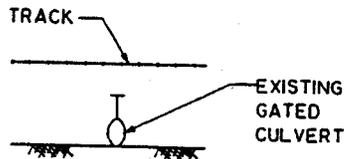
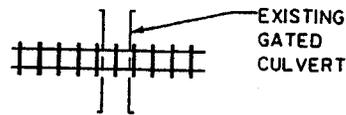
Magnolia Ridge Levee System
 P991399 EM-20-000-0722
 St. Charles Parish
 August 31, 2001

VI. Equalizer Structures



TYPE I
MP27

TYPE II
MP27



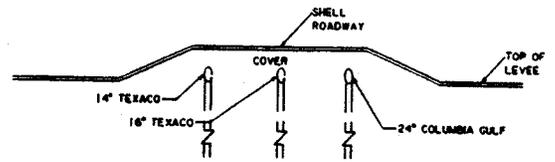
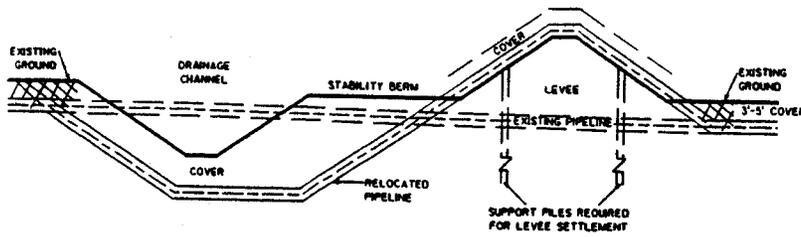
TYPE III
MP28
MP29

Magnolia Ridge Levee System
P991399 EM-20-000-0722
St. Charles Parish
August 31, 2001

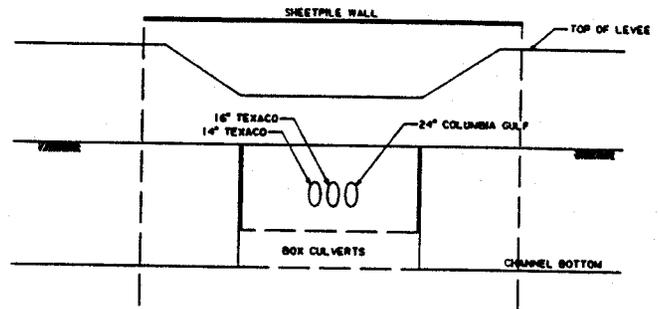
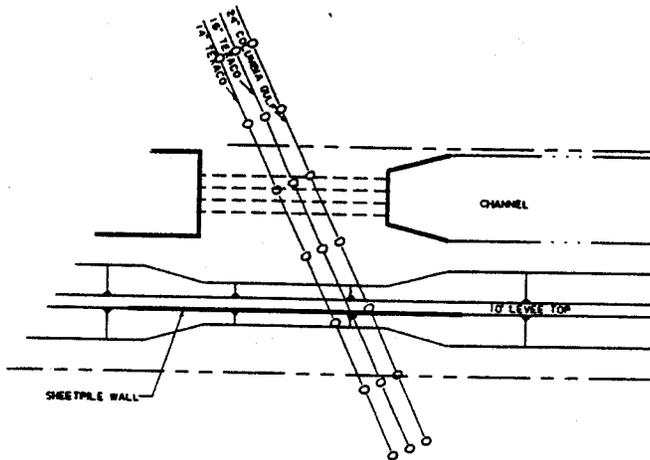
VII. Gated Structures North

PROTECTED
SIDE

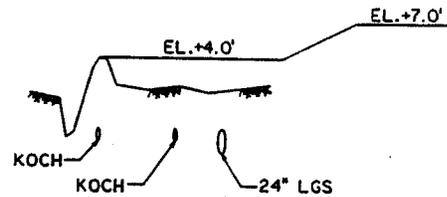
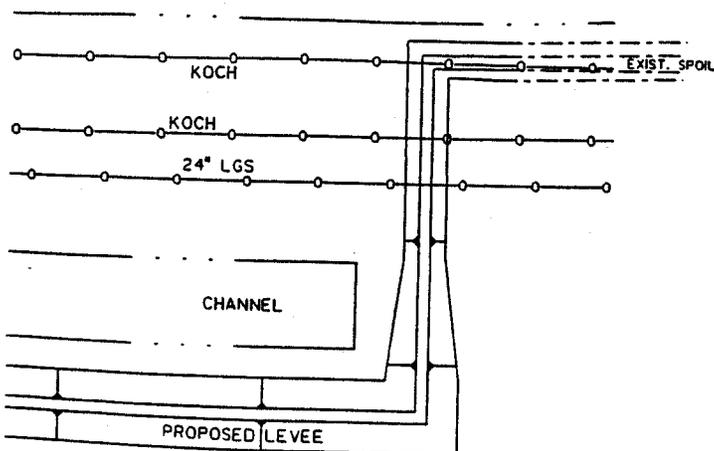
COASTAL
SIDE



TYPE I



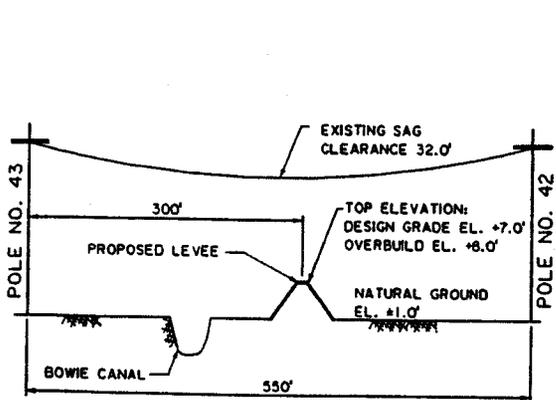
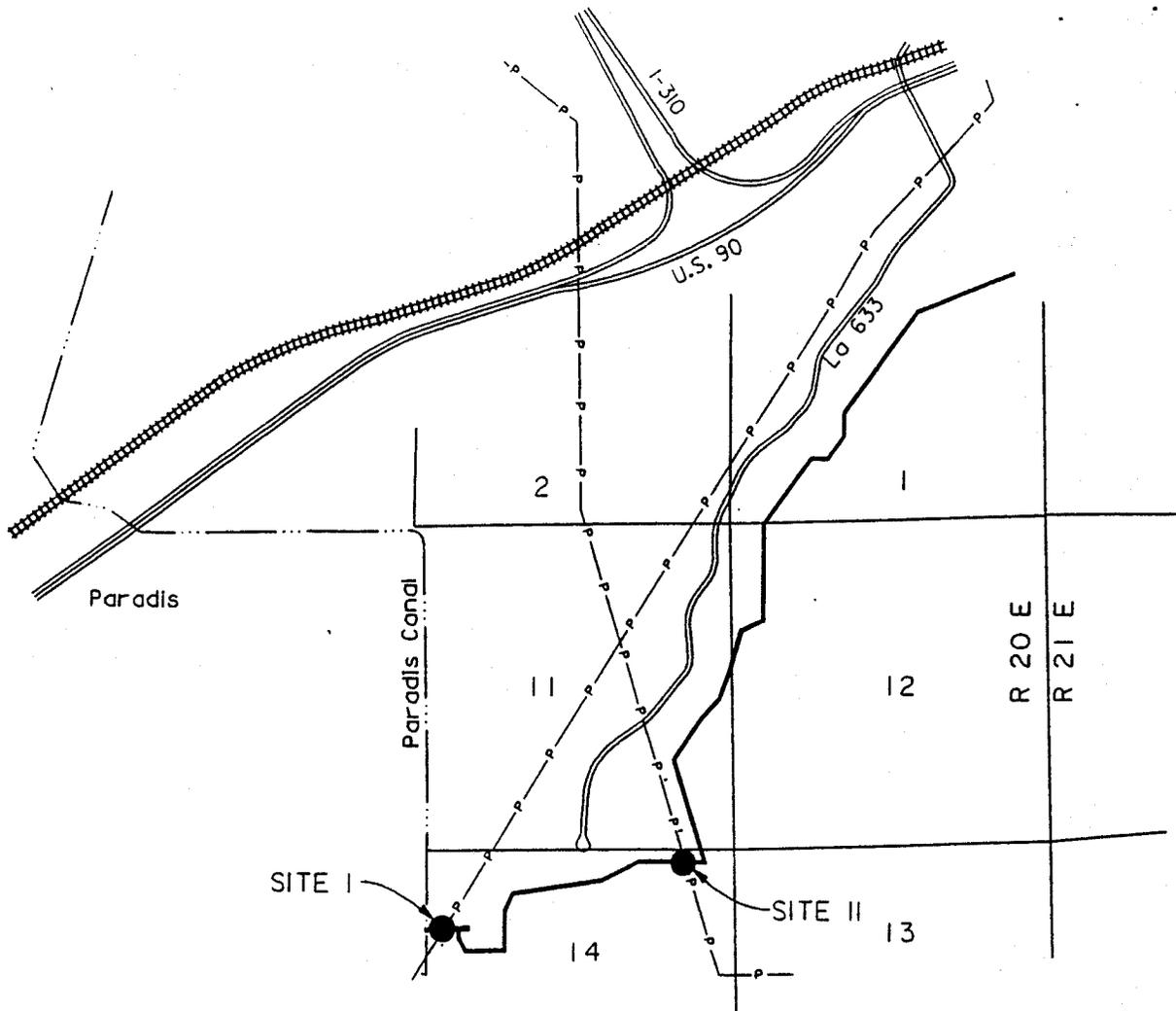
TYPE II



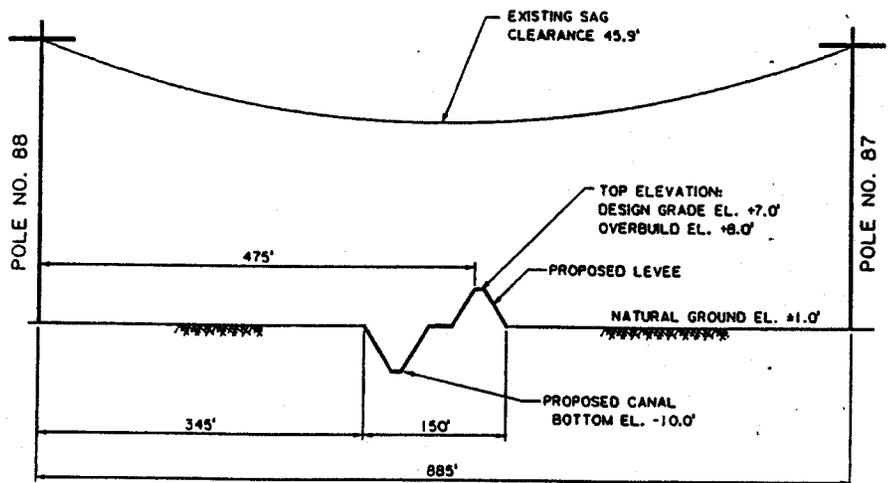
TYPE III

Magnolia Ridge Levee System
P991399 EM-20-000-0722
St. Charles Parish
August 31, 2001

VIII. Pipeline Crossings



SITE I



SITE II

Magnolia Ridge Levee System
 P991399 EM-20-000-0722
 St. Charles Parish
 August 31, 2001



ST. CHARLES PARISH

DEPARTMENT OF PLANNING & ZONING

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(985) 783-5060 • FAX (985) 783-6447

Website: www.stcharlesparish-la.gov

V.J. ST. PIERRE, JR.
PARISH PRESIDENT

KIM MAROUSEK, AICP
PLANNING DIRECTOR

August 29, 2013

Holly Fonseca
Grants Officer
PO Box 302
Hahnville, Louisiana 70057

RE: Environmental Review
Magnolia Ridge Pump Station

Dear Ms. Fonseca:

At your request, I have reviewed the propose construction of the Magnolia Ridge Pump Station. I have reviewed the proposed structural drawings, aerial photos of the area and performed a site visit. The site is previously impacted site influence by the construction of the existing levee. It is my opinion that the construction of the Magnolia Ridge Pump Station should not have significant environmental impact to the area. The Coastal Zone Management Section therefor has NO OBJECTION to this project.

If I can be of further assistance, please do not hesitate to call.

Sincerely,

Earl J. Matherne, Jr., CFM
CZM Administrator



NATIONAL WILD AND SCENIC RIVERS SYSTEM



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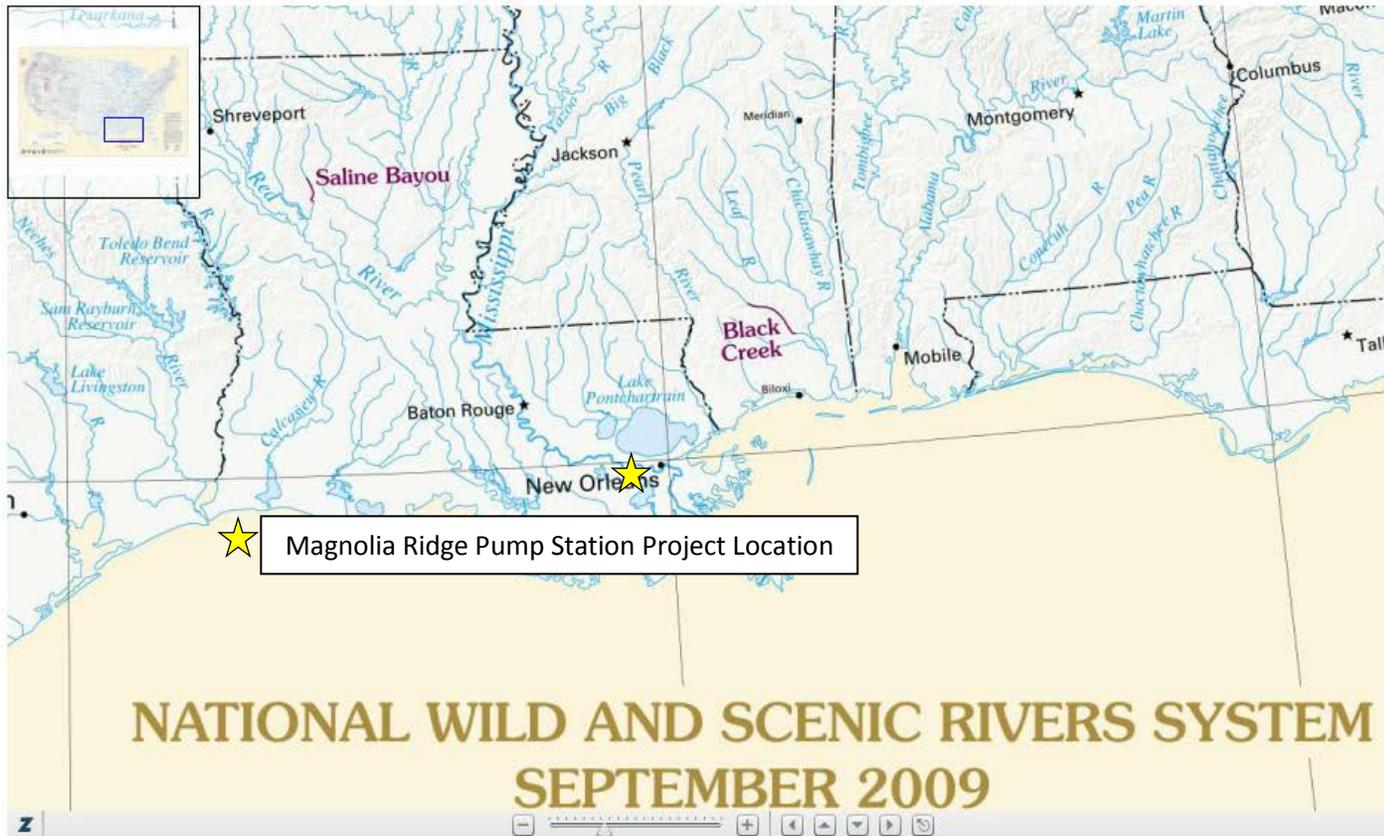
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[KID'S SITE](#)



Coastal Zone Boundary Map





State of Louisiana
DEPARTMENT OF NATURAL RESOURCES
OFFICE OF COASTAL MANAGEMENT

September 28, 2012

To whom it may concern:

The Louisiana Department of Natural Resources, Office of Coastal Management (LDNR OCM) administers the state's federally-approved Coastal Zone Management (CZM) program.

A number of federal and state agencies are involved in providing financial assistance to state and local governments, non-governmental organizations, businesses, and individuals in Louisiana. As part of their award process, many of these agencies require the applicant to coordinate with the Louisiana CZM program. This coordination is generally intended to address one of two questions: concerns about awarding the financial assistance, or concerns about implementing the proposed project.

As a result of an internal review of program functions, OCM is streamlining its financial assistance review procedure to ensure response to all requests in a timely and appropriate manner. The OCM is confident that this procedure change will greatly improve office productivity, and provide for better accountability to the public we serve. Consequently, as of October 1, 2012, the coordination with OCM concerning applications for federal financial assistance should follow the procedures below, depending on the nature of the inquiry:

Consistency review for Federal Assistance

Federal regulations at 15 CFR §930.90 *et seq.* require state and local government bodies applying for federal financial assistance (grants, loans, guarantees, insurance, contractual arrangements, or other form of financial aid) to submit a request for Consistency review of that assistance to OCM. Since the inception of the Louisiana Coastal Resources Program in 1980, OCM has never found that financial assistance for a proposed project would be inconsistent with the state Coastal Zone Management program. The Office of Coastal Management therefore is issuing this letter of general consistency concurrence, which shall serve as formal notification that, as of October 1, 2012, the granting of any financial assistance as defined at 15 CFR §930.91, is fully consistent with the Louisiana Coastal Resources Program. Federal agencies should not require applicants for financial assistance to seek OCM's approval for that assistance.

Request for Determination for project implementation

If the applicant is seeking comments on the need to obtain a Coastal Use Permit or other authorization from OCM, for projects in or near to the Louisiana Coastal Zone, a Request for Determination or Solicitation of Views should be submitted to OCM's Permits and Mitigation

Division. Instructions and downloadable and online applications are located online at <http://dnr.louisiana.gov/index.cfm?md=pagebuilder&tmp=home&pid=93>. In Step 3 of the application, the box for Request for Determination or Solicitation of Views should be checked. Questions regarding this process may be directed to the OCM Permits Section staff at (225) 342-7591 or 1-800-267-4019, or by mail at P.O. Box 44487, Baton Rouge, LA 70804.

Outside of the Coastal Zone

Projects which are clearly located outside of the Coastal Zone and are not likely to have an impact on coastal waters generally will not require coordination with the OCM. However, projects near the Coastal Zone boundary where there may be some doubt, or those which may involve discharges into waters that flow into the Coastal Zone, should be submitted to OCM for review. A map of the Coastal Zone may be found at <http://dnr.louisiana.gov/index.cfm?md=pagebuilder&tmp=home&pid=89&pnid=0&nid=39>.

Finally, OCM may find it necessary to change or rescind the provisions of this letter. Should this become necessary, OCM will publish a public notice in the Official State Journal (The Baton Rouge Advocate) and on the DNR web page, and attempt to contact all affected federal agencies directly.

Questions concerning these procedures should be addressed to Mr. Jeff Harris of the Consistency Section, at (225) 342-7949 or via e-mail to Jeff.Harris@LA.gov.

Sincerely,



Keith Lovell
Acting Administrator
Interagency Affairs/Field Services Division

cc: Karl Morgan, P/M Division
Consistency file C20120326

rev 11/14/2012



**DEPARTMENT OF NATURAL RESOURCES
OFFICE OF COASTAL MANAGEMENT**

P.O. BOX 44487
BATON ROUGE, LOUISIANA 70804-4487
(225)342-7591
1-800-267-4019

COASTAL USE PERMIT/CONSISTENCY DETERMINATION

C.U.P. No.: P20121273

C.O.E. No.: MVN- 2000- 0722- EOO

NAME: **ST. CHARLES PARISH DEPT. OF PUBLIC WORKS**
c/o GCR, INC.
2021 LAKESHORE DRIVE, SUITE 500
NEW ORLEANS, LA 70122
Attn: Lucas Lilly

LOCATION: **Saint Charles Parish, LA**
POB near Paradis Canal: Lat. 29° 51' 48"N and Long. 90° 24' 47"W; POE near proposed Ellington Levee (P20100821): Lat. 29° 53' 24"N and Long. 90° 22' 17"W; Magnolia Ridge Ranchettes; Magnolia Ridge Road in Boutte, Louisiana.

DESCRIPTION: Proposed levee improvements and construction of the West Bank Hurricane Protection Levee - Phase 1 Magnolia Ridge to a height of +/-7.0' (NAVD). Levee improvements include storm drainage canals, pumping station, +/-100' weir, gated culverts, detention pond, rip rap, borrow canal, maintenance berm, access ramps, sheetpile, articulated concrete mattress, pipeline crossings thru T-Wall, floodwalls, pumping station discharge pipes, closure structure and discharge pipes adjacent to the developed areas. Approximately 25,500 cubic yards of excavation required of which +/-11,250 cubic yards will be placed onsite and +/-14,250 cubic yards will be hauled offsite. Approximately 1,200 cubic yards of concrete, 7,800 cubic yards of crushed stone/gravel, 11,200 cubic yards of sand, 77,800 cubic yards of topsoil/dirt, and 550 cubic yards of rip rap will be hauled in and used as fill.

In accordance with the rules and regulations of the Louisiana Coastal Resources Program and Louisiana R.S. 49, Sections 214.21 to 214.41, the State and Local Coastal Resources Management Act of 1978, as amended, the permittee agrees to:

1. Carry out, perform, and/or operate the use in accordance with the permit conditions, plans and specifications approved by the Department of Natural Resources.
2. Comply with any permit conditions imposed by the Department of Natural Resources.
3. Adjust, alter or remove any structure or other physical evidence of the permitted use if, in the opinion of the Department of Natural Resources, it proves to be beyond the scope of the use as approved or is abandoned.
4. Provide, if required by the Department of Natural Resources, an acceptable surety bond in an appropriate amount to ensure adjustment, alteration, or removal should the Department of Natural Resources determine it necessary.
5. Hold and save the State of Louisiana, the local government, the department, and their officers and employees harmless from any damage to persons or property which might result from the use, including the work, activity, or structure permitted.
6. Certify that the use has been completed in an acceptable and satisfactory manner and in accordance with the plans and specifications approved by the Department of Natural Resources. The Department of Natural Resources may, when appropriate, require such certification to be given by a registered professional engineer.
7. All terms of the permit shall be subject to all applicable federal and state laws and regulations.
8. This permit, or a copy thereof, shall be available for inspection at the site of work at all times during operations.
9. The applicant will notify the Office of Coastal Management of the date on which initiation of the permitted activity described under the "Coastal Use Description" began. The applicant shall notify the Office of Coastal Management by mailing the enclosed green initiation card on the date of initiation of the coastal use.
10. Unless specified elsewhere in this permit, this permit authorizes the initiation of the coastal use described under "Coastal Use Description" for two years from the date of the signature of the Secretary or his designee. If the coastal use is not initiated within this two year period, then this permit will expire and the applicant will be required to submit a new application. Initiation of the coastal use, for the purposes of this permit, means the actual physical beginning of the use of activity for which the permit is required. Initiation does not include preparatory activities, such as movement of equipment onto the coastal use site, expenditure of funds, contracting out of work, or performing activities which by themselves do not require a permit. In addition, the permittee must, in good faith, and with due diligence, reasonably progress toward completion of the project once the coastal use has been initiated.
11. The following special conditions must also be met in order for the use to meet the guidelines of the Coastal Resources Program:
 - a. All logs, stumps and other debris encountered during dredging activities shall be removed from the site during or immediately after the activity and disposed of in accordance with all applicable laws and regulations.



- b. That permittee shall insure that all sanitary sewage and/or related domestic wastes generated during the subject project activity and at the site, thereafter, as may become necessary shall receive the equivalent of secondary treatment (30 mg/l BOD5) with disinfection prior to discharge into any of the streams or adjacent waters of the area or, in the case of total containment, shall be disposed of in approved sewerage and sewage treatment facilities, as is required by the State Sanitary Code. Such opinion as may be served by those comments offered herein shall not be construed to suffice as any more formal approval(s) which may be required of possible sanitary details (i.e. provisions) scheduled to be associated with the subject activity. Such shall generally require that appropriate plans and specifications be submitted to the Department of Health and Hospitals for purpose of review and approval prior to any utilization of such provisions.
- c. The area where the project is located is all part of the aboriginal homelands of the Chitimacha Tribe of Louisiana. As such, large villages, burial sites, and sacred sites were in place in that entire area. If at any time during the course of the work, any traditional cultural properties are discovered, Permittee shall immediately contact Kimberly S. Walden (Cultural Director) or Melanie Aymond (Research Coordinator) at (337) 923-9923 or (337) 923-4395. Office hours are Monday through Thursday from 7:30 A.M. - 5:00 P.M. and on Friday between 7:30 A.M. - 11:30 A.M. If traditional cultural properties are discovered on the weekend or after business hours, the notification shall be made the next business morning.
- d. All structures built under the authorization and conditions of this permit shall be removed from the site within 120 days of abandonment of the facilities for the herein permitted use, or when these structures fall into a state of disrepair such that they can no longer function as intended. This condition does not preclude the necessity for revising the current permit or obtaining a separate Coastal Use Permit, should one be required, for such removal activities.
- e. Structures must be marked/lighted in accordance with U. S. Coast Guard regulations.
- f. To mitigate for the unavoidable loss of ± 2.5 acres of Bottomland Hardwood habitat and 1.2 acres of Cypress Swamp habitat and 0.8 acres of Fresh Marsh habitat, the Office of Coastal Management received documentation dated May 28, 2014 that the permittee has purchased 5.2 acres of Bottomland Hardwood habitat credits and 0.8 acres of Cypress Swamp habitat credits from the Enterprise Woodlands Mitigation Bank. This purchase will satisfy the requirements for compensatory mitigation and allow permittee to conduct the activities authorized under this permit.
- g. The Louisiana Natural Heritage Program database indicates that a Live Oak forest is located adjacent to the proposed project area. This community is considered critically imperiled to imperiled in the state of Louisiana with an S1S2 ranking. These communities provides habitat for many unique species of plants, and acts as a migratory staging/stopover site for neo-tropical migratory birds. Based on a site visit conducted on 11/15/2012 this live oak community is beginning to convert to water oak dominated community. Collection of water for extended periods of time in the live oak forest community due to the levee may cause the community to transition to bottomland hardwood forest. We advise you to take the necessary measures to avoid any impacts to this ecological community. If you have any questions or need additional information, please contact Amity Bass at 225-765-2975.
- The Louisiana Natural Heritage Program (LNHP) reports summarize the existing information known at the time of the request regarding the location in question. LNHP reports should not be considered final statements on the biological elements or areas being considered, nor should they be substituted for on-site surveys required for environmental assessments. If at any time LNHP tracked species are encountered within the project area, please contact our biologist at 225.765.2643.
- h. This permit does not convey any property rights, mineral rights, or exclusive privileges; nor does it authorize injury to property.
- i. All fill material shall be clean and free of contaminants and shall not contain hazardous materials such as asbestos or asbestos residue, shingles, tires, oil/grease residue, exposed rebar, protruding objects, etc.



- j. All fill/spoil material to be hauled off-site shall be disposed of at a State approved facility.
- k. Permittee shall, prior to commencement of the herein permitted activities, contact Lafourche Basin Levee District, Attn: Ms. Kristi Vicknair Address: Board of Commissioners, Post Office Box 670, 21380 Highway 20, Vacherie, LA 70090; kvicknair@lald.us.com to determine if a construction permit will be required from the local levee district.
- l. Permittee is subject to all applicable state laws related to damages which are demonstrated to have been caused by this action.
- m. Permittee shall allow representatives of the Office of Coastal Management or authorized agents to make periodic, unannounced inspections to assure the activity being performed is in accordance with the conditions of this permit.
- n. Permittee shall comply with all applicable state laws regarding the need to contact the Louisiana One Call (LOC) system (1-800-272-3020) to locate any buried cables and pipelines.
- o. This permit authorizes the initiation of the Coastal Use described under "Coastal Use Description" for two (2) years from the date of the signature of the Secretary or his designee. Initiation of the Coastal Use, for purposes of this permit, means the actual physical beginning of the use or activity for which the permit is required. Initiation does not include preparatory activities, such as movement of equipment onto the Coastal Use site, expenditure of funds, contracting out of work, or performing activities which by themselves do not require a permit. In addition, Permittee must, in good faith and with due diligence, reasonably progress toward completion of the project once the Coastal Use has been initiated. If the Coastal Use is not initiated within this two (2) year period, an extension may be granted pursuant to the requirements contained in the Rules and Procedures for Coastal Use Permits (Title 43:I.723.D.). Please note that a request for permit extension MUST be made no sooner than one hundred eighty (180) days and no later than sixty (60) days prior to the expiration of the permit.

The expiration date of this permit is five (5) years from the date of the signature of the Secretary or his designee.

Upon expiration of this permit, a new Coastal Use Permit will be required for completion of any unfinished or uncommenced work items and for any maintenance activities involving dredging or fill that may become necessary. Other types of maintenance activities may also require a new Coastal Use Permit.

***** End of Conditions *****

Page: 4 of 5
C.U.P. No.: P20121273
C.O.E. No.: MVN- 2000- 0722- EOO



By accepting this permit the applicant agrees to its terms and conditions.
I affix my signature and issue this permit this 8th day of August, 2014.

THE DEPARTMENT OF NATURAL RESOURCES

Karl L. Morgan, Administrator
Office of Coastal Management

This agreement becomes binding when signed by Administrator of
the Office of Coastal Management Permits/Mitigation Division, Department of Natural Resources.

Attachments



Final Plats:

1) [P20121273](#) Final Plats 07/17/2014

cc: Martin Mayer, COE w/attachments
Dave Butler, LDWF w/attachments
Lafourche Basin Levee District, LD w/attachments
Johan Forsman, DHH w/attachments
Jessica Diez, OCM w/attachments
Kirk Kilgen, OCM/FI w/attachments

ST. CHARLES PARISH DEPT. OF PUBLIC WORKS w/attachments



U.S. Fish & Wildlife Service

ECOS Environmental Conservation Online System

Conserving the Nature of America



[ECOS](#) / [Species Reports](#) / Species By County Report

Species By County Report

The following report contains Species that are known to or are believed to occur in this county. Species with range unrefined past the state level are now excluded from this report. If you are looking for the Section 7 range (for Section 7 Consultations), please visit the [IPaC](#) application.

County: St. Charles, LA

<u>Group</u>	<u>Name</u>	<u>Population</u>	<u>Status</u>	<u>Lead Office</u>	<u>Recovery Plan Name</u>	<u>Recovery Plan Action Status</u>	<u>Recovery Plan Stage</u>
Birds	<u>Brown pelican</u> (<u><i>Pelecanus occidentalis</i></u>)	except U.S. Atlantic coast, FL, AL	Recovery	<u>Ventura Fish and Wildlife Office</u>	-	-	-
	<u>Sprague's pipit</u> (<u><i>Anthus spragueii</i></u>)		Candidate	<u>Assistant Regional Director-Ecological Services</u>	-	-	-

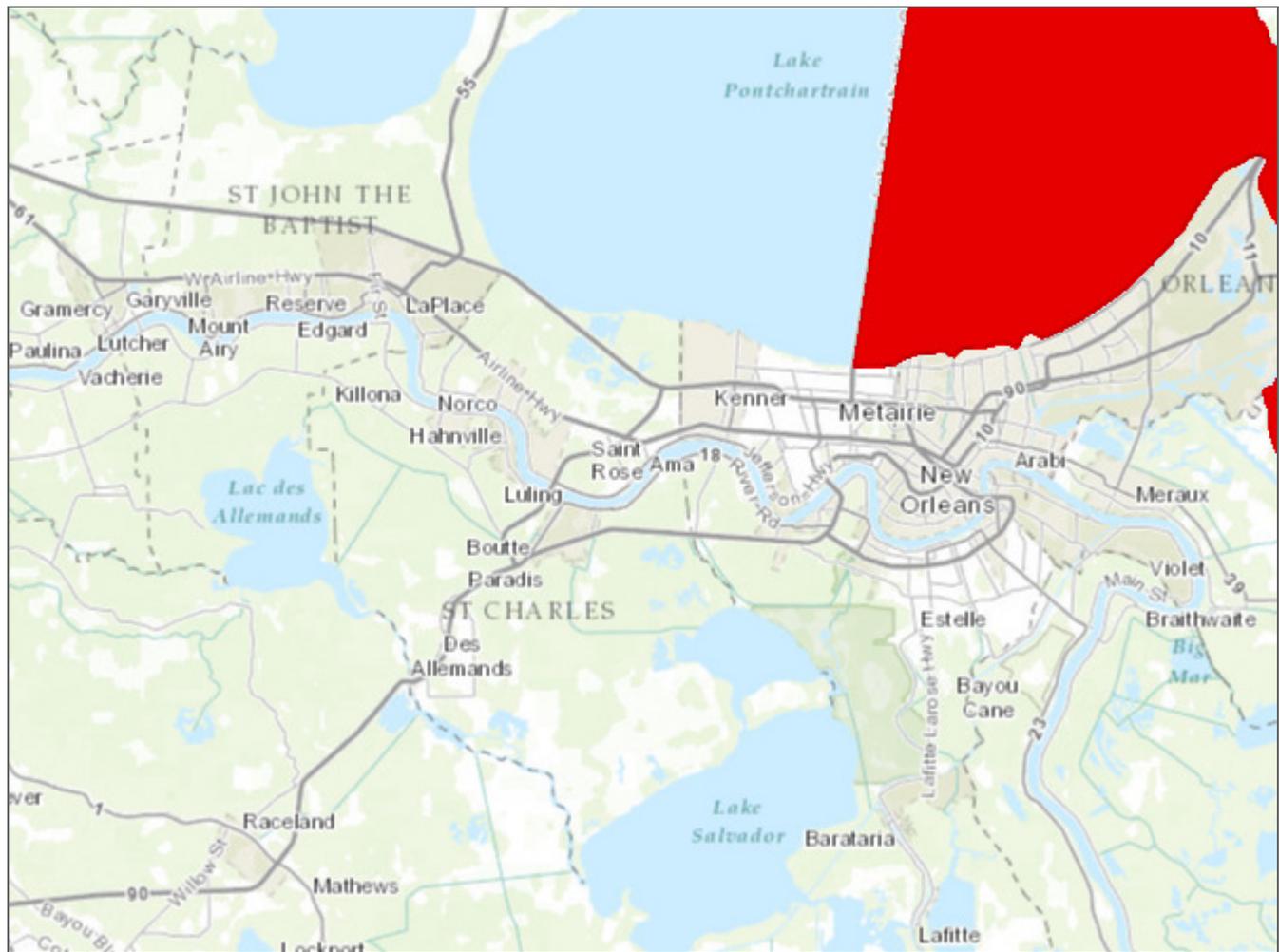
<u>Group</u>	<u>Name</u>	<u>Population</u>	<u>Status</u>	<u>Lead Office</u>	<u>Recovery Plan Name</u>	<u>Recovery Plan Action Status</u>	<u>Recovery Plan Stage</u>
Fishes	<u>Atlantic sturgeon</u> (<u>Gulf subspecies</u>) (<u>Acipenser oxyrinchus</u> (= <u>oxyrhynchus</u>) <u>desotoi</u>)	Entire	Threatened	<u>Panama City Ecological Services Field Office</u>	<u>Gulf Sturgeon</u>	<u>Implementation Progress</u>	Final
	<u>Pallid sturgeon</u> (<u>Scaphirhynchus albus</u>)	Entire	Endangered	<u>Northern Rockies Fish and Wildlife Conservation Office</u>	<u>Final Revised Recovery Plan for the Pallid Sturgeon (Scaphirhynchus albus)</u>	<u>Implementation Progress</u>	Final Revision 1
Mammals	<u>West Indian Manatee</u> (<u>Trichechus manatus</u>)	Entire	Endangered	<u>North Florida Ecological Services Field Office</u>	<u>Florida Manatee Recovery Plan, Third Revision</u>	<u>Implementation Progress</u>	Final Revision 3
					<u>Recovery Plan Puerto Rican Population of the West Indian (Antillean) Manatee</u>	<u>Implementation Progress</u>	Final

<u>Group</u>	<u>Name</u>	<u>Population</u>	<u>Status</u>	<u>Lead Office</u>	<u>Recovery Plan Name</u>	<u>Recovery Plan Action Status</u>	<u>Recovery Plan Stage</u>
	<u>Louisiana black bear (<i>Ursus americanus luteolus</i>)</u>	Entire	Threatened	<u>Louisiana Ecological Services Field Office</u>	<u>Louisiana Black Bear</u>	<u>Implementation Progress</u>	Final

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USFWS Critical Habitat Map

USFWS Critical Habitat for Threatened & Endangered Species



Esri, HERE, DeLorme, USGS, NGA, EPA, USDA, NPS



ESA Technical Assistance Form

General Information

Name: St. Charles Parish

Point of Contact: Holly Fonseca

Address: P. O. Box 302

City: Hahnville

State: Louisiana

Zip Code: 70057

Phone Number 1: (985) 783-5170

Phone Number 2: _____

Email Address: hfonseca@stcharlesgov.net

Proposed Project Information

Project Reference ID: 6364

Project Latitude: 29° 51' 46.88" North Project Longitude: 90° 24' 42.01" West

Project Parish(es): Saint Charles

Project Description: The west bank of St. Charles Parish (west side of the Mississippi River) outside of the U. S. Army Corps of Engineers' Hurricane Storm Damage Risk Reduction System (HSDRRS) and unprotected from storm surges associated with both hurricanes and high tide conditions. Levee projects currently adjacent to this area have the potential to act as a funnel, thereby increasing the storm surge elevations in the project area.

This portion of the Parish is subject to heavy rainfall, tidal surges from the Gulf of Mexico, and hurricane flooding, often resulting in damages to industrial, commercial, residential, agricultural, and environmental facilities. The area has been declared a federal disaster area numerous times, and as recent as 2012 following Hurricane Isaac, the Federal Emergency Management Agency (FEMA) provided disaster assistance to St. Charles Parish.

As a result, St. Charles Parish is constructing the St. Charles Parish West Bank Hurricane Protection Levee (WBHPL) to reduce the damages caused by storm surges. The nine (9) mile earthen levee alignment extends from the Sunset Levee on the western flank in Des Allemands to the Davis Pond West Guide Levee to the east in Luling. Three (3) new



ESA Technical Assistance Form

drainage pumping stations and numerous tidal exchange structures are necessary to address both the interior drainage and the encapsulated wetlands ecosystem.

The WBHPL is a phased project consisting of the following: Magnolia Ridge (Phase I) currently has a partially constructed earthen levee, including a first lift. A second lift, tidal interchange structures, and the proposed Magnolia Ridge Pump Station remain to be completed. The Willowridge (Phase II) includes earthen levees, drainage canals, tidal exchange structures, concrete t-walls, and a drainage pumping station. Construction of the major portion of the Willowridge earthen levee and drainage canals was completed in November 2015. The Willowridge Pump Station, tidal exchange structures, concrete t-walls, and earthen levee tie-in to the Federal levee system on the eastern terminus is under construction with an anticipated completion date of December 30, 2016. Ellington (Phase III) includes earthen levees, drainage canals, tidal exchange structures, concrete t-walls, and a drainage pumping station. The major portion of the Ellington earthen levees and drainage canals is under construction with an anticipated completion date of November 30, 2017. Permits have been secured for all three phases.

As required by the Federal and State agencies to secure the necessary permits for all phases of the WBHPL project, BKI prepared an extensive hydraulic and hydrologic model utilizing the HEC-RAS software, for the entire West Bank of St. Charles Parish in order to ensure the permitting agencies that the hurricane protection projects and all of their associated components would be designed and constructed in such a manner as to simultaneously provide the necessary protection for the Parish and protect the adjacent wetlands and ecosystem. This analysis was also necessary to determine the interior drainage improvement requirements to ensure that the implementation of the levee would not increase the existing water surface elevations during storm events. The results of the modeling efforts identified the need to provide both channel improvements and new drainage pumping stations to provide drainage over the levee. The pumping stations size identified for the Magnolia Ridge Phase of the overall project is 500 cubic feet per



Louisiana Ecological Services Office

ESA Technical Assistance Form

second (cfs). The modeling results and summary are provided in a separate portion of this application.

The proposed Magnolia Ridge Pump Station will be located in Boutte, in an AE Flood Zone. Currently, there are 231 residences, 41 businesses, 2 public buildings, and 25 school/hospital/church buildings within Magnolia Ridge's watershed area, which encompasses parts of Boutte and Paradis, Louisiana. During heavy rainfall and tidal surge events, this area experiences flooding of structures and streets. The pump station will be operated and maintained by the St. Charles Parish Department of Public Works.

The proposed mitigation project, the Magnolia Ridge Pump Station, includes the construction of a 500 cfs pump station and a detention pond that will serve as an intake basin ("sump") for the pump station, in conjunction with an earthen levee built to elevation +7.5 NGVD and perimeter access road. The earthen levee and perimeter access road are separate items of work from the pump and sump footprints, but essential scope items that are included in this application. The perimeter access road shall be constructed in order to facilitate access to the pump station for operations and maintenance activities.

The sump area will be connected to the existing Magnolia Ridge Canal via 2 - 84" diameter pipes. This intake basin will be excavated to approximately elevation -7.00 (existing ground is approximately elevation 0.00), and its dimensions are approximately 200' X 400'. Under normal rain events, the intake basin will be fed by the canal which runs parallel to the Magnolia Ridge Levee. Under high tidal or storm surge events, a closure structure that will be constructed in the Paradis Canal as a separate project not included in this application, will divert additional stormwater via a weir to the intake basin of the pump station. This weir shall consist of a concrete-paved depression at the interface of the drainage basin and the sump area to properly convey the stormwater to the pump station. The pump station has been sized to accommodate both the stormwater



ESA Technical Assistance Form

from the parallel canal along the Magnolia Ridge Levee as well as the Paradis Canal north of the closure structure during a high storm surge event. The stormwater shall be pumped over the proposed elevation + 7.5 levee into the Paradis Canal.

The dimensional footprint of the pump station is approximately 135' X 80' including truck bays and equipment buildings. The depth of excavation required at the sump of the pump station is approximately 17 feet below existing grade.

The height of the pump station is based upon experience with other pump station designs in the WBHPL system which discharge over the elevation + 7.5 levee. The centerline of the discharge pipes will be 11 feet above existing ground. Additionally, the discharge side of the pump station shall be fortified through the installation of a 2-foot thick riprap mat to prevent scouring on the flood side of the station.

The construction of the pump station and the required excavation will require the use of Temporary Retaining Structures (TRS), consisting of steel sheet piling, with associated walers and tiebacks to provide a secure braced excavation. Dewatering will be required in order to provide a dry bottom for the construction of a concrete foundation consisting of footings supported by timber pilings. Structural backfill will be required for the construction of the station foundation and substructure.

The pump station will include equipment consisting of pumps, electric motors, controls and a generator which will sit on an elevated exterior pad equal with the berm height and will have the capability of being operated remotely by the St. Charles Parish Department of Public Works, who will operate and maintain the pump station on a regular basis.

Pumps shall be vertical axial/mix flow driven by diesel engines. Four (4) pumps each with a capacity of 125 cfs will meet the required station capacity of 500 cfs. The influent will be cleaned by catenary type trash screens and cleaners. The mechanical and electrical equipment will be housed inside a metal pre-fabricated building. Fuel for the engines and



ESA Technical Assistance Form

backup generator will be stored in a double walled tank inside the station footprint.

Design criteria were provided through meetings with St. Charles Parish and guidelines for mechanical design will be based on Hydraulic Institute standards, fuel systems by National Fire Protection Association, structural by International Building Code and electrical by National Electrical Code. Design is in progress. The 60% Plans and 60% Specifications, as well as photos have been included in this Appendix. The work will be completed by a qualified construction firm base on bids submitted.

The Magnolia Ridge Pump Station will be located at the southernmost point in the watershed area to allow for drainage within the entire watershed area to provide flood protection for structures and streets during heavy rain and tidal surge events. Without the Magnolia Ridge Pump Station, the structures and streets in the watershed area will be subject to future inundation during heavy rain and tidal surge events posing a significant risk to public health and safety. The pump station is a functional part of the WBHPL solution to provide flood protection across the entire west bank of St. Charles Parish. There are no other projects, zoning changes, etc., being planned upstream or downstream or within the same watershed that will negatively impact the protection provided by the completion of the WBPHL or the proposed Magnolia Ridge Pump Station project. The Parish is committed to completing the WBHPL as illustrated by the Parish Administration's goal to "expedite the construction of the WBHPL." Additionally on May 2, 2015, the taxpayers in St. Charles Parish approved a millage to provide dedicated local revenue to complete the WBHPL. For more detailed information on levee projects in St. Charles Parish, please visit www.scplevees.com.

Based on the information provided, the proposed project is not an activity that would affect a federally listed threatened or endangered species or designated critical habitat.

No further ESA coordination with the Service is necessary for the proposed action, unless there are changes in the scope or location of the proposed project or the project has not been initiated one year from the date of this letter.

If the proposed project has not been initiated within one year, follow-up coordination via this website should be accomplished prior to making expenditures because our threatened and endangered species information is updated periodically. If the scope or location of the proposed project is changed, coordination via this website should occur as soon as such changes are made.

If your project is located adjacent to a wildlife management area, refuge, or other area that is managed as a bird preserve, we recommend that you contact the adjacent land management office.



1/19/2016

Louisiana Ecological Services Office

ESA Technical Assistance Form

This finding completes project review by the Service for effects to Federal trust resources under our jurisdiction and currently protected by the ESA.

Please keep a copy of this pre-development coordination for your records. Do not send it to the Lafayette ES Office.

If you have additional questions, please contact Louisiana ES Office Biological Science Technician at 337/291-3100 for further assistance.



Louisiana Ecological Services Office

1/19/2016

ESA Technical Assistance Form

Project Type: Other

Does the project propose to obtain, remodel, refurbish, or rehabilitate existing structures in such a way that does not significantly alter the present capacity or use, and does not alter surrounding land areas that were previously undisturbed? No

Does the project propose to reconstruct, resurface, or enhance infrastructure and/or cityscape (e.g. streets, sewers, sidewalks, etc.) within the current footprint of the infrastructure and in a manner that does not disturb previously undisturbed ground? No

Is the construction project located entirely within the footprint of an established urban/suburban area (incorporated villages, towns, or cities)? Yes



BOBBY JINDAL
GOVERNOR

State of Louisiana

DEPARTMENT OF WILDLIFE AND FISHERIES
OFFICE OF WILDLIFE

ROBERT J. BARHAM
SECRETARY

JIMMY L. ANTHONY
ASSISTANT SECRETARY

May 13, 2013

Mr. Martin S. Mayer, Chief
Regulatory Branch
United States Army Corps of Engineers
P. O. Box 60267
New Orleans, LA 70160-0267

RE: *Application Number: MVN-2000-0722-EOO (Modification)*
Applicant: St. Charles Parish Department of Public Works
Notice Date: May 6, 2013

Dear Mr. Mayer:

The professional staff of the Louisiana Department of Wildlife and Fisheries (LDWF) has reviewed the above referenced notice. The activity involves the increasing of the levee footprint at Magnolia Ridge. Based upon this review, the following has been determined:

LDWF has no objection to the proposed modification, provided that previous LDWF recommendations and mitigation obligations are incorporated into the new permit as standard conditions.

The Louisiana Department of Wildlife and Fisheries submits these recommendations to the U.S. Army Corps of Engineers in accordance with provisions of the Fish and Wildlife Coordination Act (16 U.S.C. 661 et seq.). Please do not hesitate to contact Habitat Section biologist Chris Davis at 225-765-2642 should you need further assistance.

Sincerely,

A handwritten signature in black ink, appearing to read "Kyle F. Balkum".

Kyle F. Balkum
Biologist Program Manager

cd

National Park Service U.S. Department Of The Interior

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Your search returned 6 results, Showing page 1 of 1, Items 1 through 6

1

Photos

Text

Name

Destrehan Plantation



Dorvin House



Homeplace Plantation House



Kenner and Kugler Cemeteries
Archeological District



LaBranche Plantation
Dependency



Ormond Plantation House



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Last Updated: 11/2/2013



**OFFICE OF CULTURAL DEVELOPMENT
DIVISION OF HISTORIC PRESERVATION**

National Register of Historic Places Database

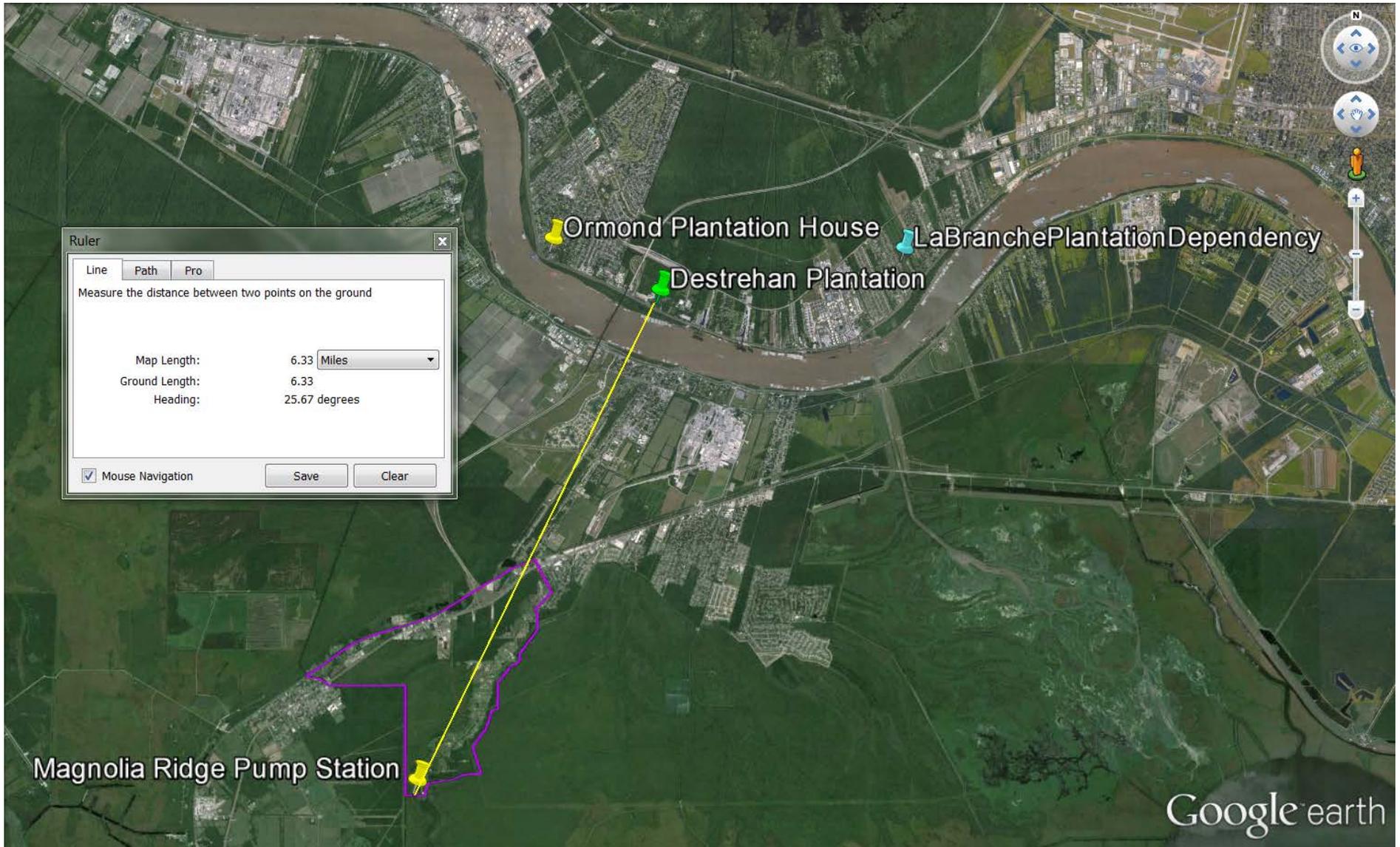
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Currently Searching For "St. Charles" Through "Parish Name Search"

Your search returned 6 entries - Showing page 1 of 1						
View	Historic Name	Other Names	City	Associated Files	Parish	Date Placed on Register
view	Destrehan Plantation	16SC18	Destrahan	Documents: 1 Images: 3 Maps: 3	St. Charles	5/20/1973
view	Dorvin House	Mollere House, Rosodon	Hahnville	Documents: 1 Images: 2 Maps: 2	St. Charles	5/24/1990
view	Kenner and Kugler Cemeteries Archaeological Dist.	16SC50 and 16SC51	Norco	Documents: 1 Images: 0 Maps: 0	St. Charles	10/16/1987
view	LaBranche Plantation Dependency	also known as Barbarra Plantation	St. Rose	Documents: 1 Images: 2 Maps: 2	St. Charles	10/18/1984
view	Homplace Plantation House	Keller Homestead	Hahnville	Documents: 1 Images: 2 Maps: 1	St. Charles	4/15/1970
view	Ormond Plantation House		Destrahan	Documents: 1 Images: 2 Maps: 1	St. Charles	11/8/1990

Magnolia Ridge Pump Station

Google Map measurement to closest historical resource





ST. CHARLES PARISH

GRANTS OFFICE

P.O. BOX 302 • HAHNVILLE, LOUISIANA 70057
(985) 783-5000 • Fax (985) 783-2187

Website: www.stcharlesparish-la.gov • Email: hfonseca@stcharlesgov.net

V.J. ST. PIERRE, JR.
PARISH PRESIDENT

HOLLY L. FONSECA, MBA
GRANTS OFFICER

August 5, 2013

Ms. Pam Breaux
Louisiana Department of Culture, Recreation and Tourism
Office of Cultural Department
P. O. Box 94361
Baton Rouge, LA 70804-9361

**RE: Application for Hazard Mitigation Grant Program
Magnolia Ridge Pump Station
West Bank Hurricane Protection Levee
St. Charles Parish, Louisiana**

Dear Ms. Pam Breaux,

St. Charles Parish is preparing Federal Emergency Management Agency's (FEMA) Hazard Mitigation Grant Program (HMGP) applications for funding to construct the Magnolia Ridge Pump Station in Boutte, Louisiana as part of the Parish's West Bank Hurricane Protection Levee. This program requires the Parish to complete an environmental review prior to implementation. We respectfully request that your office review the information included herein and provide written comments.

The Parish is proposing to construct a 500 cubic feet per second pump station to service the communities of Boutte and Paradis that are located in the Magnolia Ridge watershed area. A scope of work, location map, aerial photo of site, and schematic diagram/site plan for the proposed pump station are enclosed.

Please feel free to contact me with any questions you may have. I can be reached at (985) 785-5170 or at hfonseca@stcharlesgov.net. Your assistance in this matter is greatly appreciated.

Sincerely,

Holly Fonseca
Grants Officer

Enclosures

No known historic properties will be affected by this undertaking. This effect determination could change should new information come to our attention.

Pam Breaux
State Historic Preservation Officer

8-16-13

Date

AUG - 7 2013

Magnolia Ridge Pump Station

Scope of Work and Project Background

The west bank of St. Charles Parish (west side of the Mississippi River) outside of the U. S. Army Corps of Engineers' Hurricane Storm Damage Risk Reduction System (HSDRRS) is unprotected from storm surges associated with both hurricanes and high tide conditions. Levee projects currently adjacent to this area have the potential to act as a funnel, thereby increasing the storm surge elevations in the project area.

This portion of the Parish is subject to heavy rainfall, tidal surges from the Gulf of Mexico, and hurricane flooding, often resulting in damages to industrial, commercial, residential, agricultural, and environmental facilities. The area has been declared a federal disaster area numerous times, and as recent as 2012 following Hurricane Isaac, the Federal Emergency Management Agency (FEMA) provided disaster assistance to St. Charles Parish.

As a result, St. Charles Parish is constructing the St. Charles Parish West Bank Hurricane Protection Levee (WBHPL) to reduce the damages caused by storm surges. The nine (9) mile earthen levee alignment extends from the Sunset Levee on the western flank to the Davis Pond West Guide Levee to the east. Three (3) new drainage pumping stations and numerous tidal exchange structures are necessary to address both the interior drainage and the encapsulated wetlands ecosystem.

The St. Charles Parish WBHPL is a phased project consisting of the following: Magnolia Ridge (Phase I) has a partially constructed earthen levee, including a first lift. A second lift, tidal interchange structures, and the proposed Magnolia Ridge Pump Station remain to be completed. The permit application for the Magnolia Ridge phase has been submitted and is under review by the appropriate regulatory agencies. Permits have been secured to complete the remaining work: Willowridge (Phase II) includes earthen levees, drainage canals, tidal exchange structures, concrete t-walls, and a drainage pumping station. The first lift of the Willowridge levee will be advertised for bids in August 2013, followed shortly by the advertisement for bids for the pump station prior to year end. Ellington (Phase III) includes earthen levees, drainage canals, tidal exchange structures, concrete t-walls, and a drainage pumping station. The Parish is actively seeking alternative means of financing portions of the levee in an effort to provide some flood protection to areas that currently have none.

As required by the Federal and State agencies to secure the necessary permits for all phases of the WBHPL project, BKI prepared an extensive hydraulic and hydrologic model utilizing the HEC-RAS software, for the entire West Bank of St. Charles Parish in order to ensure the permitting agencies that the hurricane protection projects and all of their associated components would be designed and constructed in such a manner as to simultaneously provide the necessary protection for the Parish and protect the adjacent wetlands and ecosystem. This analysis was also necessary to determine the interior drainage improvement requirements to ensure that the implementation of the levee would not increase the existing water surface elevations during storm events. The results of the modeling efforts identified the need to provide both channel improvements and new drainage pumping stations to provide drainage over the levee. The pumping stations size identified for the Magnolia Ridge Phase of the overall project is 500 cubic feet per second (cfs). The modeling results and summary are provided in a separate portion of this application.

The proposed Magnolia Ridge Pump Station will be located in Boutte, in an AE Flood Zone. Currently, there are 231 residences, 41 businesses, 2 public buildings, and 25 school/hospital/church buildings within Magnolia Ridge's watershed area, which encompasses parts of Boutte and Paradis, Louisiana. During heavy rainfall and tidal surge events, this area experiences flooding of structures and streets. The pump station will be operated and maintained by the St. Charles Parish Department of Public Works.

The proposed mitigation project will be constructed in conjunction with an earthen levee (separate project not included in this application) built to elevation +7 NGVD and a detention pond that will serve as an intake basin for the pump station. This intake basin will be excavated to approximately elevation -7.00 (existing ground is approximately elevation 0.00), and its dimensions are approximately 200' X 400'. Under normal rain events, the intake basin will be fed by the canal which runs parallel to the Magnolia Ridge Levee. Under high tidal or storm surge events, a closure structure (separate project not included in this application) to be constructed in the Paradis Canal will divert additional stormwater via a weir to the intake basin of the pump station. This weir shall consist of three 4' X 4' box culverts to properly convey the stormwater to the pump station. The pump station has been sized to accommodate both the stormwater from the parallel canal along the Magnolia Ridge Levee as well as the Paradis Canal north of the closure structure during a high storm surge event.

The dimensional footprint of the pump station shall be dependent upon the sizing of pump bays and associated equipment, but it is estimated to be 70' X 70'. The depth of excavation at the sump of the pump station shall be determined during design, but it is estimated to be 10 to 12 feet below existing grade. Thus, the estimated amount of excavation for the pump station is 2,200 cubic yards.

The height of the pump station will be determined during the design phase, but based upon experience with other pump station designs in the WBHPL system which are discharging over the elevation +7.0 levee, it is estimated that the centerline of the discharge pipes will be 11 feet above existing ground. Additionally, the discharge side of the pump station shall be fortified through the installation of a 2-foot thick riprap mat to prevent scouring on the flood side of the station.

The construction of the pump station and the required excavation will require the use of Temporary Retaining Structures (TRS), consisting of steel sheet piling, with associated walers and tiebacks to provide a secure braced excavation. Dewatering will be required in order to provide a dry bottom for the construction of a concrete foundation consisting of footings supported by timber pilings. Approximately 700 cubic yards of structural backfill will be required for the construction of the station foundation and substructure.

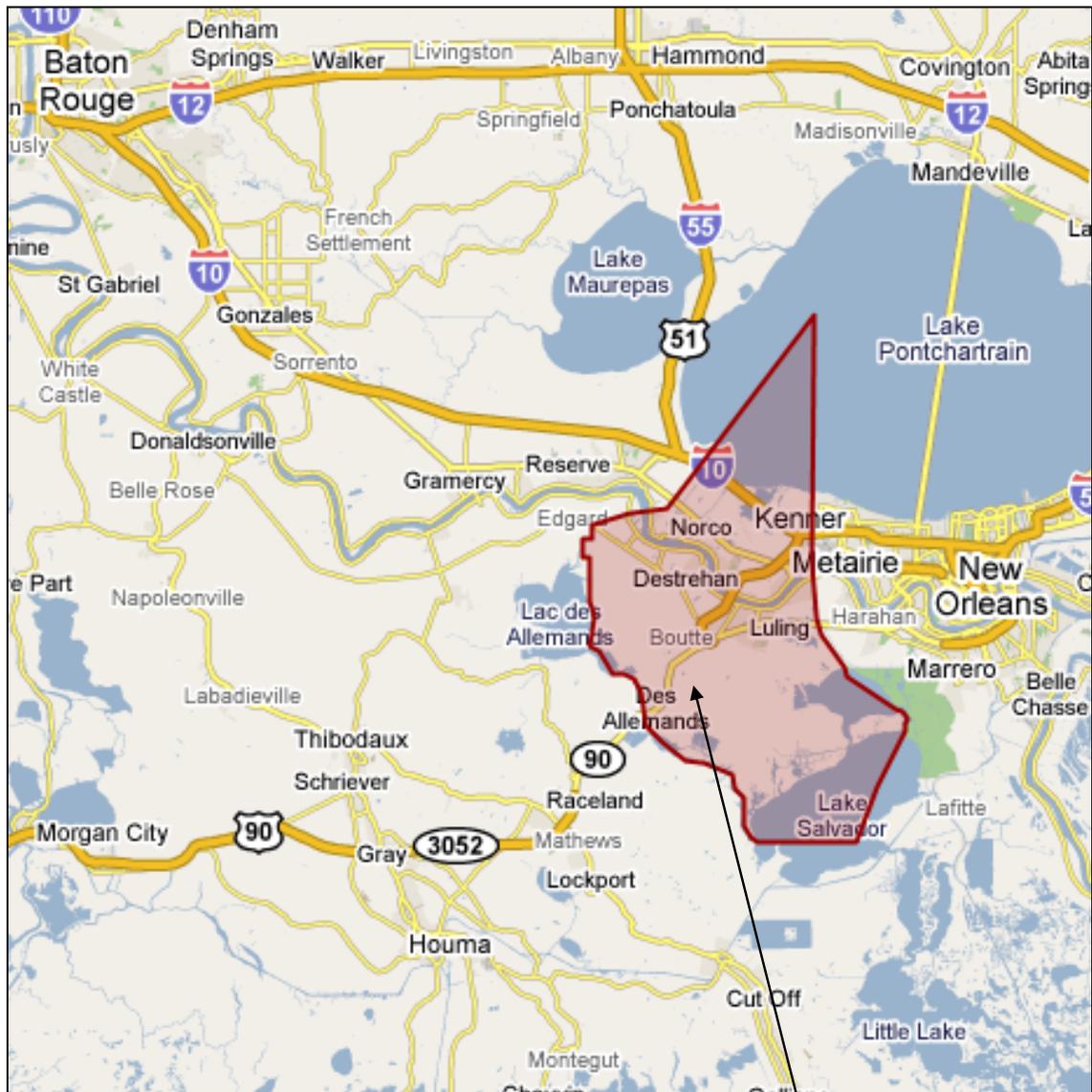
The pump station will include equipment consisting of pumps, electric motors, controls and a generator which will sit on an elevated exterior pad equal with the berm height and will have the capability of being operated remotely by the St. Charles Parish Department of Public Works, who will maintain the pump station on a regular basis. Pumps shall be vertical axial/mix flow driven by electric motors. The exact number and size of each pump will be determined during design to meet the required station capacity of 500 cfs. The influent will be cleaned by catenary type trash screens and cleaners. The electrical equipment will be housed inside a CMU Building. Design criteria were provided through meetings with St. Charles Parish and guidelines for mechanical design will be based on Hydraulic Institute standards, structural by International Building Code and electrical by National Electrical Code.

Stormwater shall be pumped over the proposed elevation +7.0 levee into the Paradis Canal. In the future, a concrete T-Wall shall be constructed in front of the pump station to coincide with a potential Regional Hurricane Protection Project.

Detailed descriptions of the project area and photos have been included as an attachment to this application. The work will be completed by a qualified construction firm based on bids submitted.

Parish Map

Map of St. Charles Parish, LA

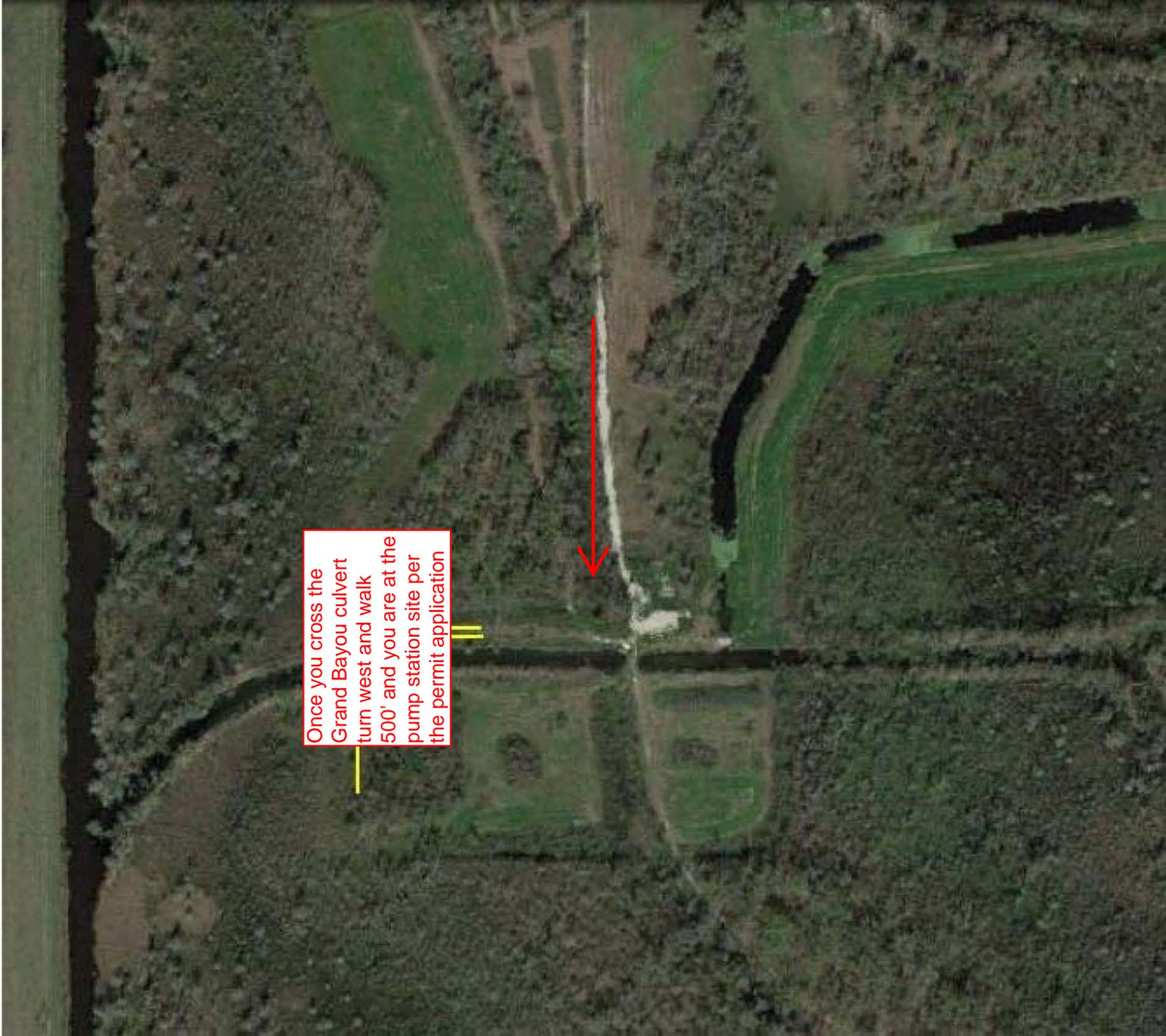


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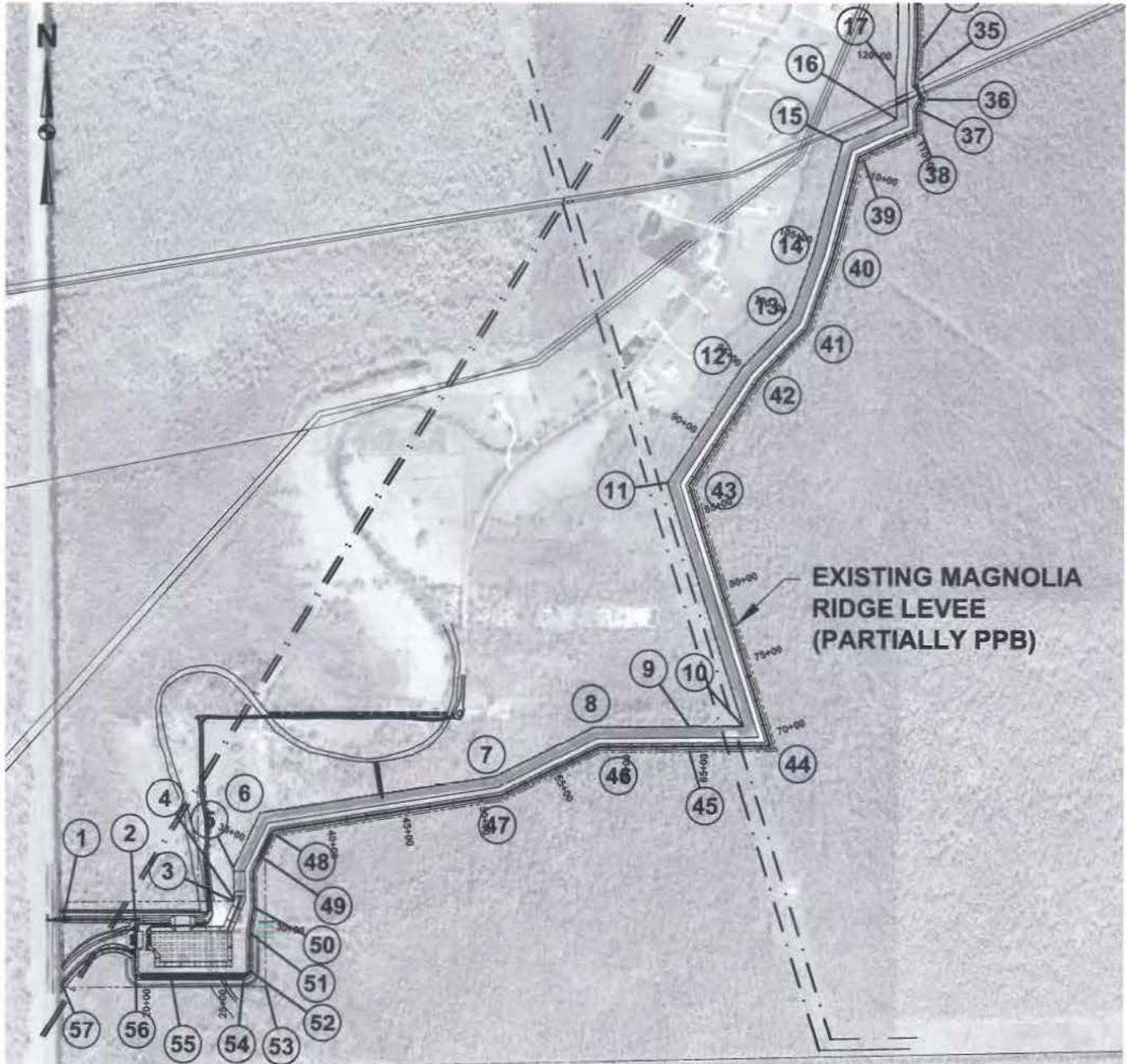
Longitude GPS Coordinates: 90° 24'42.01" W

Magnolia Ridge Pump
Station proposed location

Once you cross the
Grand Bayou culvert
turn west and walk
500' and you are at the
pump station site per
the permit application

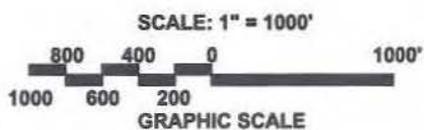


PROPOSED HURRICANE PROTECTION LEVEE MAGNOLIA RIDGE AREA ST. CHARLES PARISH, LOUISIANA



LEGEND:

- LEVEE RIGHT OF WAY
- LEVEE BASELINE
- == : == : == : == EXISTING ENERGY OVERHEAD POWER
- PPB PREVIOUSLY PERMITTED & BUILT



PARISH OF ST. CHARLES
APPLICATION BY: PARISH OF ST. CHARLES

SHEET: 3 OF 23

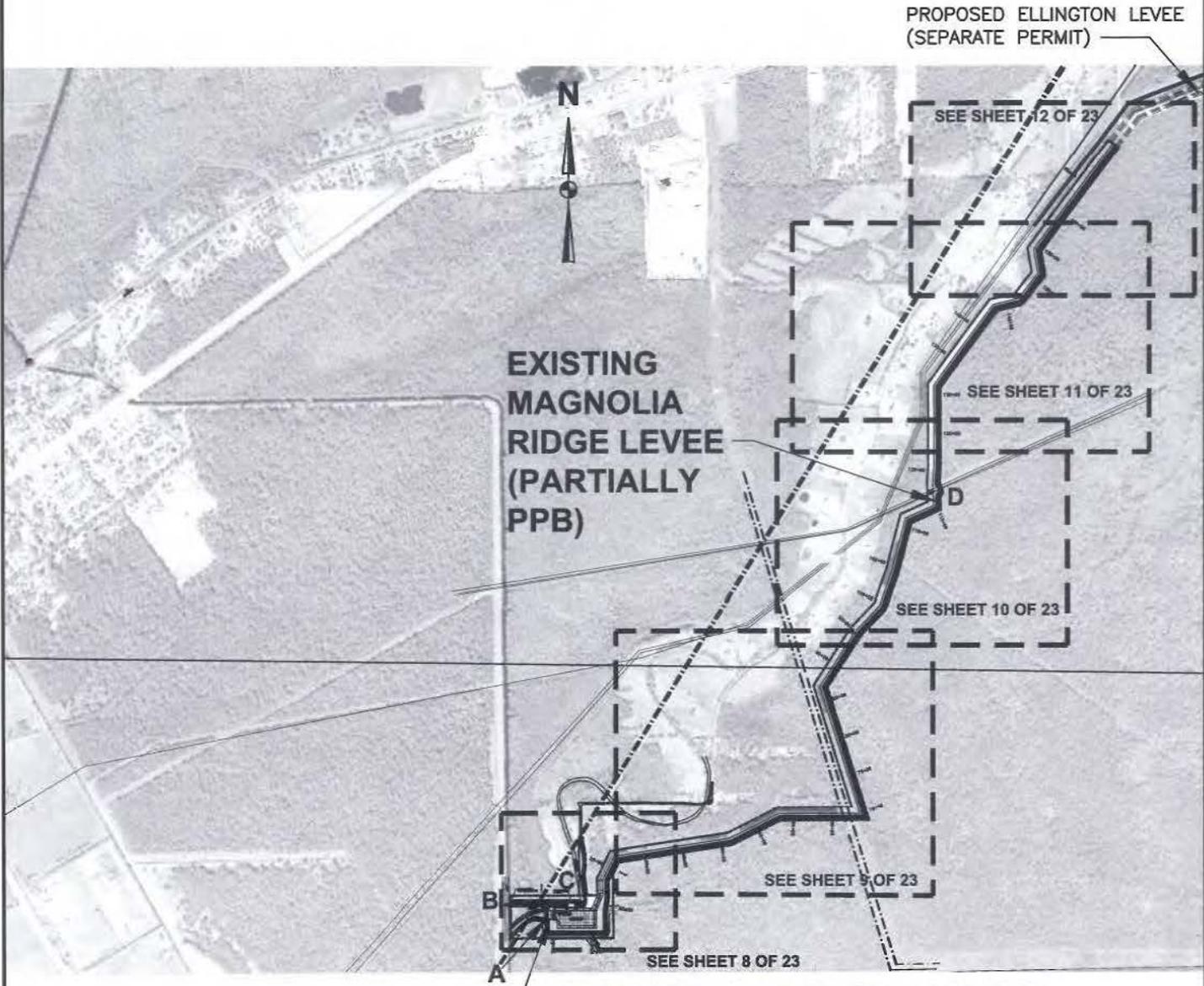
COORDINATES PLAN 1 OF 2

BURK-KLEINPETER, INC.
ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
4176 CANAL STREET, NEW ORLEANS, LOUISIANA 70119-5994
(504) 488-5901 FAX (504) 488-1714

BKI PROJ. NO. 10475-0100

APRIL 2013

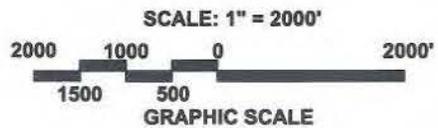
PROPOSED HURRICANE PROTECTION LEVEE MAGNOLIA PLANTATION AREA ST. CHARLES PARISH, LOUISIANA



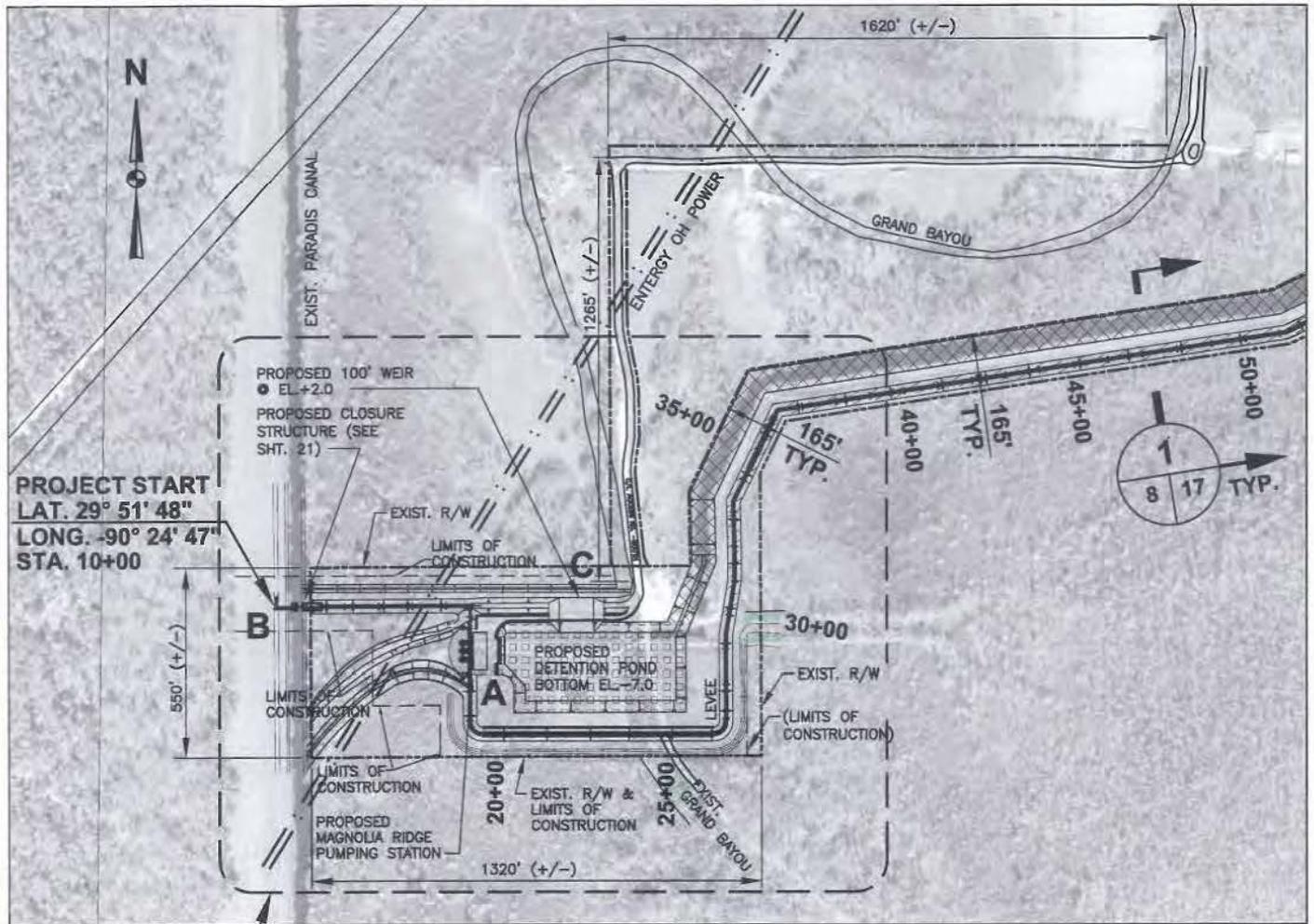
STRUCTURES LEGEND:

- A** PROPOSED PUMPING STATION (PPNB)
- B** PROPOSED CLOSURE STRUCTURE (PPNB)
- C** PROPOSED 100' WEIR
- D** PROPOSED PIPELINE CROSSING THRU T-WALL (PPNB)

(PPNB) = PREVIOUSLY PERMITTED & NOT BUILT
(PPB) = PREVIOUSLY PERMITTED & BUILT



PROPOSED HURRICANE PROTECTION LEVEE MAGNOLIA RIDGE AREA ST. CHARLES PARISH, LOUISIANA



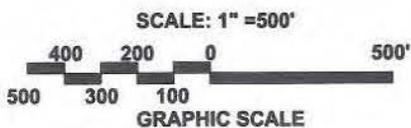
**SEE DETAIL 1,
SHT. 13**

LEGEND:

- LIMITS OF CONSTRUCTION
- - - - - LEVEE RIGHT OF WAY
- LEVEE BASELINE
- : --- : --- EXISTING ENERGY OVERHEAD POWER
- XXXXXX EXCAVATION (PPB)
- ////// FILL (PPB)
- DETENTION POND (PPNB)
- PPB PREVIOUSLY PERMITTED & BUILT
- PPNB PREVIOUSLY PERMITTED & NOT BUILT

NOTE:

UTILITY LINES SHOWN ARE APPROXIMATE POSITIONS OF UTILITY EASEMENTS AND ARE NOT MEANT TO INDICATE ACTUAL OWNERSHIP OR POSITION OF PIPELINE OR POWERLINES.



PARISH OF ST. CHARLES
APPLICATION BY: PARISH OF ST. CHARLES

SHEET: 8 OF 23

PARTIAL PLAN 1 OF 5

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ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
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(504) 486-5901 FAX (504) 488-1714

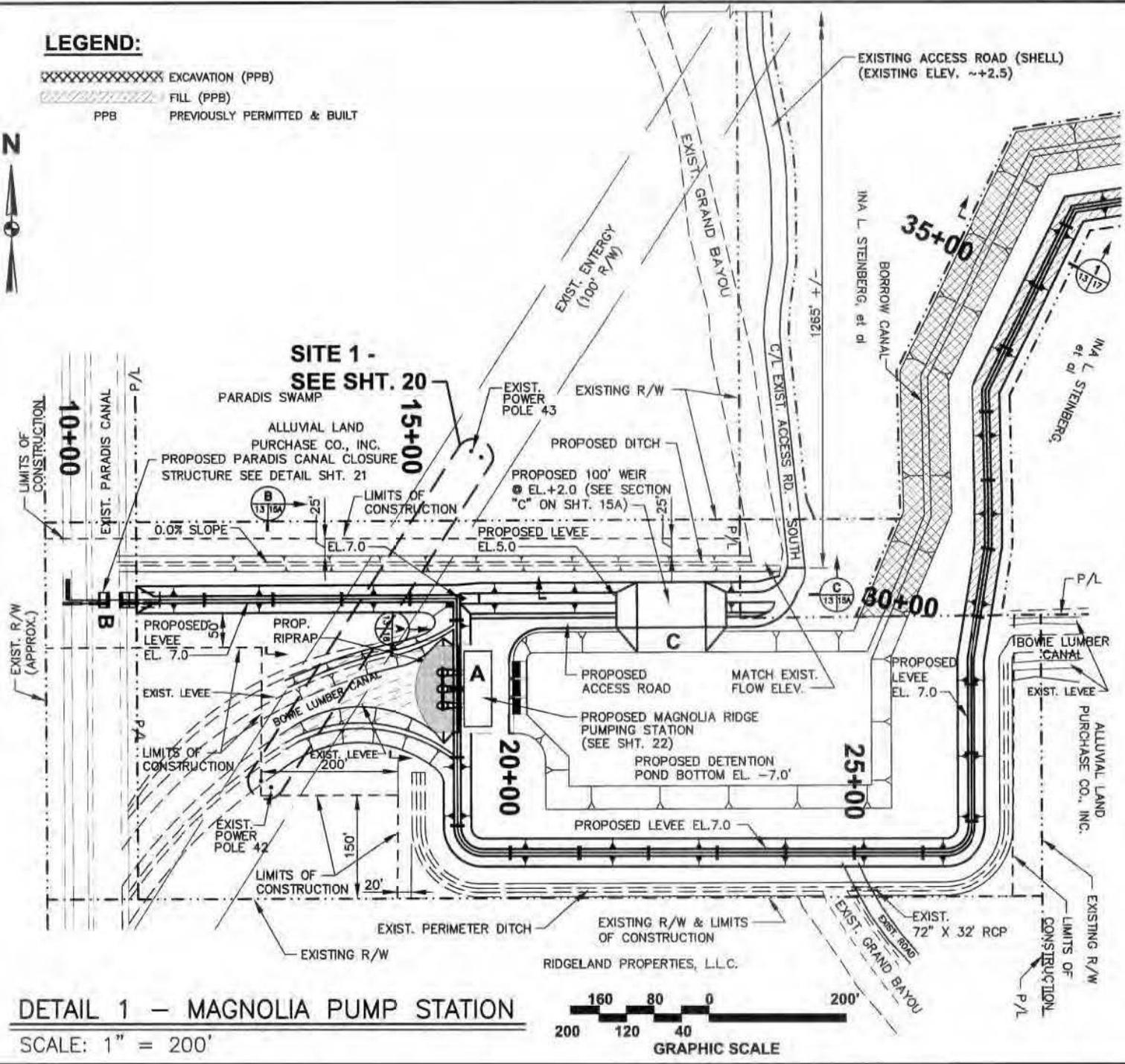
BKI PROJ. NO. 10475-0100

APRIL 2013

PROPOSED HURRICANE PROTECTION LEVEL MAGNOLIA RIDGE AREA ST. CHARLES PARISH, LOUISIANA

LEGEND:

- XXXXXXXXXXXXXXXXX EXCAVATION (PPB)
- /////// FILL (PPB)
- PPB PREVIOUSLY PERMITTED & BUILT



DETAIL 1 - MAGNOLIA PUMP STATION

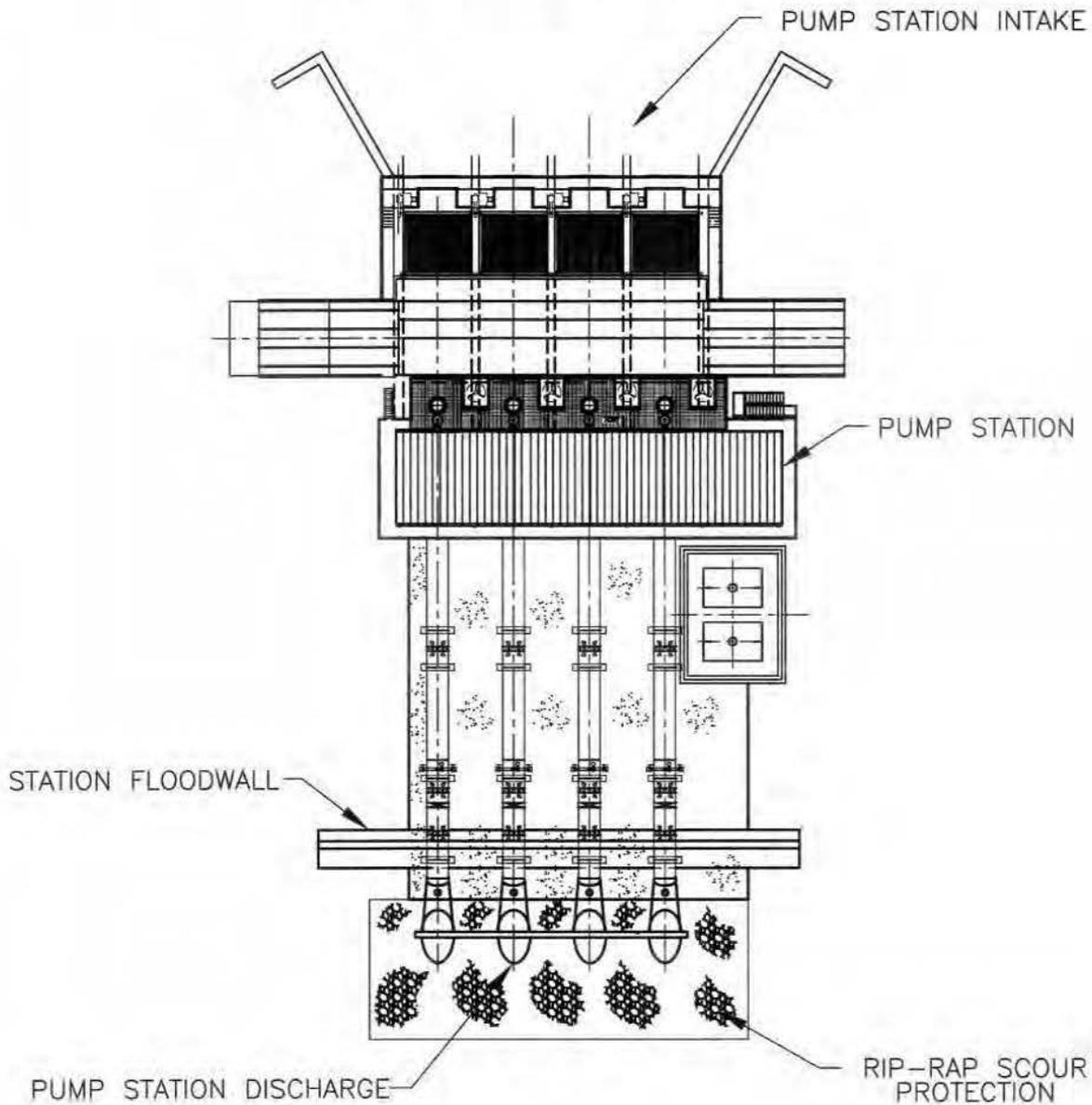
SCALE: 1" = 200'



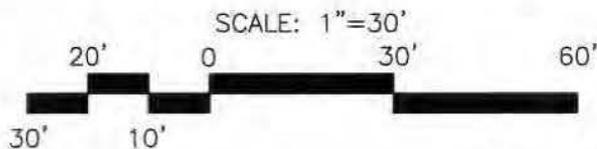
PARISH OF ST. CHARLES
 APPLICATION BY: PARISH OF ST. CHARLES
 SHEET: 13 OF 23
 PUMP STATION - SITE PLAN

BURK-KLEINPETER, INC.
 ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
 4176 CANAL STREET, NEW ORLEANS, LOUISIANA 70119-5994
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 BK1 PROJ. NO. 10475-0100
 APRIL 2013

PROPOSED HURRICANE PROTECTION LEVEE MAGNOLIA RIDGE AREA ST. CHARLES PARISH, LOUISIANA



MAGNOLIA RIDGE PUMPING STATION PLAN (PPNB)



PPNB = PREVIOUSLY PERMITTED & NOT BUILT

PARISH OF ST. CHARLES
APPLICATION BY: **PARISH OF ST. CHARLES**

SHEET: 22 OF 23

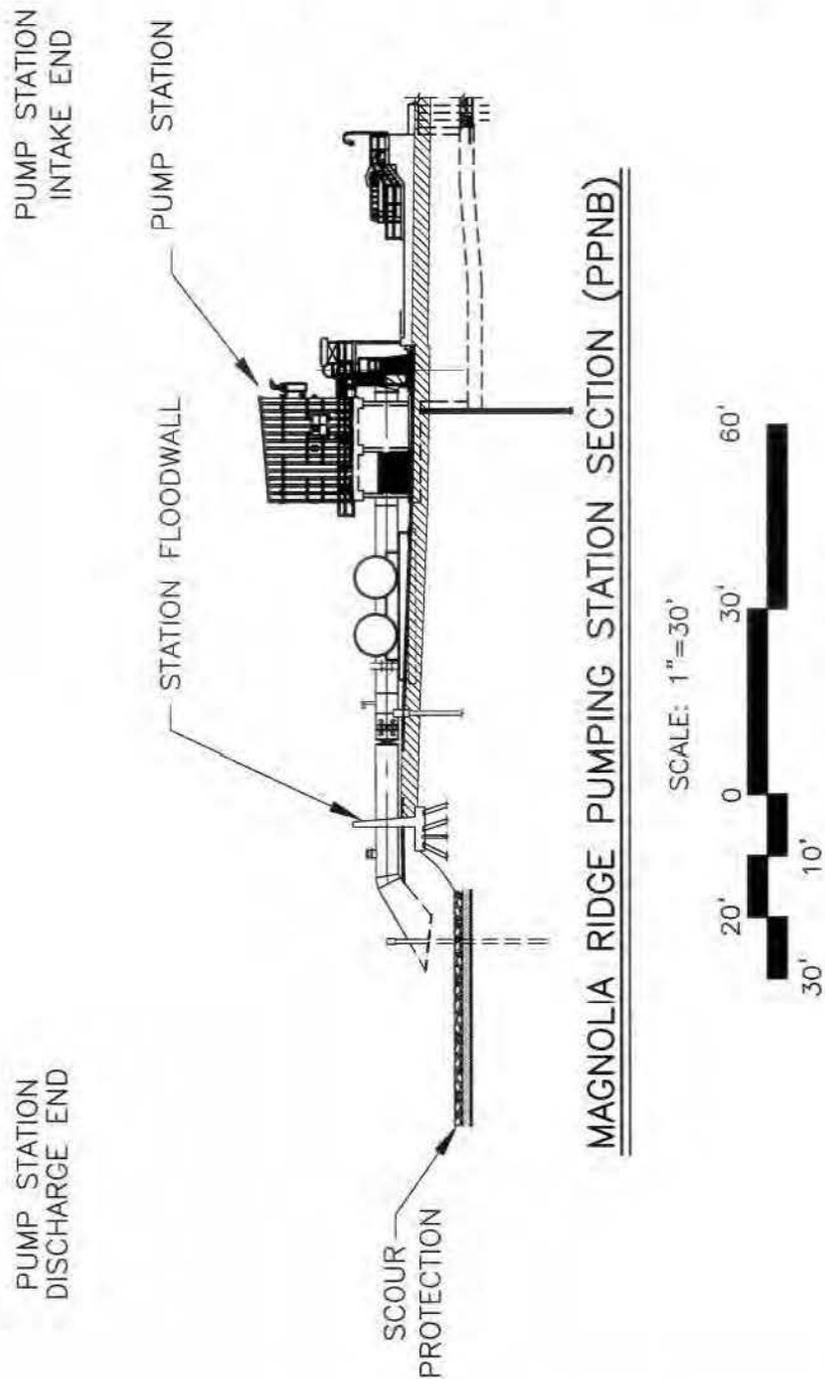
MAGNOLIA RIDGE PUMPING STATION PLAN

BURK-KLEINPETER, INC.
ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
4176 CANAL STREET, NEW ORLEANS, LOUISIANA 70119-5994
(504) 486-5901 FAX (504) 488-1714

BKI PROJ. NO. 10475-0100

APRIL 2013

PROPOSED HURRICANE PROTECTION LEVEE MAGNOLIA RIDGE AREA ST. CHARLES PARISH, LOUISIANA



PPNB = PREVIOUSLY PERMITTED & NOT BUILT

PARISH OF ST. CHARLES
APPLICATION BY: PARISH OF ST. CHARLES

BURK-KLEINPETER, INC.
ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
4176 CANAL STREET, NEW ORLEANS, LOUISIANA 70119-5994
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SHEET: 23 OF 23 MAGNOLIA RIDGE PUMPING STATION SECTION

BKI PROJ. NO. 10475-0100

APRIL 2013

Search: | [Print](#) | [Basemap](#) | [Imagery](#) | [Measure](#) | [Draw](#) | [Erase](#) | [Identify](#) | [More Data](#)

Coordinates: 29.876352, -90.440890

Measure

Measurement Result

2.01 Miles

RCRAINFO

2 sites:

- [Bayou Battery](#)
- [Paradis Field](#)

Select Map Contents

- EPA Facilities
 - Hazardous Waste (RCRAInfo)
 - Air Emissions (ICIS-Air)
 - Water dischargers (PCS/ICIS)
 - Toxic releases (TRI)
 - Superfund (CERCLIS)
 - Brownfields (ACRES)
 - RADInfo
 - Toxic Substances Control Act (TSCA)
- Water Monitoring Stations
- Places
- Transportation
- Water Features
- Nonattainment_Areas
- Boundaries
- Soil Survey Map
- Critical Habitat
- NWI Wetlands
- FEMA Flood
- Land Cover

Map features include: [bing](#), [EnviroMapper](#), [Scale: 0 0.5 1mi](#), [© 2010 NAVTEQ, © AND, © 2016 Microsoft Corporation](#), [POWERED BY esri](#)

From: [Lindsey Bilyeu](#)
To: [Leamy iii, James](#)
Subject: RE: Section 106 Review Consultation, FEMA-4080-DR-LA, HMGP Project #3, Magnolia Ridge Pumping Station, St. Charles Parish, LA
Date: Tuesday, July 19, 2016 9:55:11 AM
Attachments: [image001.png](#)

The Choctaw Nation of Oklahoma thanks FEMA for consultation on the above-referenced project. This project is located within a general area of historic interest to the Tribe. Native American archaeological materials encountered in and around the project area may potentially be culturally affiliated with the Choctaw Nation of Oklahoma. However, the Choctaw Nation Historic Preservation Department is not aware of any Choctaw historic sites located within the immediate project area. The Choctaw Nation of Oklahoma would concur with a finding of "No Historic Properties Affected". In the unexpected event that human remains or intact archaeological deposits are encountered, we ask that ground-disturbing activities are halted immediately and that our office is contacted as quickly as possible.

Thank you,

Ryan L. Spring

Director, GIS/GPS Specialist
Historic Preservation Dept.
Choctaw Nation of Oklahoma
(800) 522-6170 Ext. 2137
rspring@choctawnation.com
www.choctawnation.com
www.choctawnationculture.com



From: Leamy iii, James [mailto:James.Leamyiii@fema.dhs.gov]
Sent: Thursday, June 16, 2016 2:50 PM
To: Lindsey Bilyeu <lilyeu@choctawnation.com>
Subject: Section 106 Review Consultation, FEMA-4080-DR-LA, HMGP Project #3, Magnolia Ridge Pumping Station, St. Charles Parish, LA

Ms. Bilyeu,

Please accept the following letter and attachments as FEMA's official consultation for the above referenced project in St. Charles Parish, LA.

Feel free to contact me if you have any questions.

Respectfully,

James A. Leamy III
Archaeologist

FEMA Region VI
Environmental and Historic Preservation
800 N Loop 288
Denton, TX 76209
Bb - 940-435-5382
Desk – 940-297-0207
james.leafyiii@fema.dhs.gov

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