

# JOINT PUBLIC NOTICE

October 14, 2019

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

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

(504) 862-1545  
Project Manager  
S. Gail Gainey  
[Sandra.G.Gainey@usace.army.mil](mailto:Sandra.G.Gainey@usace.army.mil)  
MVN 2019-00736-CG

(225) 219-3225  
Project Manager  
Elizabeth Hill  
WQC Application Number  
WQC # 191008-01

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

Application has also been made to the Louisiana Department of Environmental Quality, Office of Environmental Services, for a Water Quality Certification (WQC) in accordance with statutory authority contained in LRS 30:2074 A(3) and provisions of Section 401 of the Clean Water Act.

## **RELOCATION AND MODIFICATION OF LEVEE IN LAFOURCHE PARISH**

**NAME OF APPLICANT:** North Lafourche Levee District, c/o Joseph Picciola of Picciola & Associates, Inc., PO Box 687, Cut Off, LA 70345.

**LOCATION OF WORK:** Along Forty Arpent Canal, Sections 44, 49, 50, T17S-R19E, in Lockport, Louisiana, in Lafourche Parish, within the Terrebonne Basin in hydrologic unit (HUC 08090302), as shown on the attached drawings (Latitude 29.618557 N, Longitude - 90.527428 W).

**CHARACTER OF WORK:** The applicant has requested Department of the Army authorization to clear, grade, excavate, and deposit fill and/or aggregate material to construct and maintain the B-1 Reach of the Lockport to Larose Levee to include a concrete T-wall, a culvert and sluice gate, and an aggregate road crossing. Approximately 236,951 cubic yards of earthen fill material will be placed for the levee project, of which approx. 117,430 cubic yards will be excavated and placed on site to achieve required grade elevation requirements. A preliminary analysis has determined wetlands to be present at the project site; however, extent of coverage and impacts is undetermined at this time pending wetland delineation.

The applicant proposes to avoid additional direct impacts and minimize secondary impacts to wetlands by incorporating the existing levee system as a borrow site and by using the minimal required levee footprint and levee elevation for the project. Any further reduction in the levee would not meet engineering construction standards at the project site. As compensation

for unavoidable wetland impacts, the applicant proposes to purchase compensatory mitigation from a Corps approved mitigation bank located in the watershed.

The comment period for the Department of Army will close in **20 days** from the date of this joint public notice. Written comments, including suggestions for modifications or objections to the proposed work, stating reasons thereof, are being solicited from anyone having interest in this permit and/or this WQC request and must be mailed so as to be received before or by the last day of the comment period. Letters concerning the Corps of Engineers permit application must reference the applicant's name and the Permit Application Number, and be mailed to the Corps of Engineers at the address above, **ATTENTION: REGULATORY BRANCH**. Similar letters concerning the Water Quality Certification must reference the applicant's name and the WQC application number and be mailed to the Louisiana Department of Environmental Quality at the address above. Individuals or parties may request an extension of time in which to comment on the proposed work by writing or e-mailing the Corps of Engineers Project Manager listed above. Any request must be specific and substantively supportive of the requested extension, and received by this office prior to the end of the initial comment period. The Section Chief will review the request and the requestor will be promptly notified of the decision to grant or deny the request. If granted, the time extension will be continuous to the initial comment period and, inclusive of the initial comment period, will not exceed a total of 30 calendar days.

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

### **Corps of Engineers Permit Criteria**

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

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

The New Orleans District is unaware of properties listed on the National Register of Historic

Places near the proposed work. The possibility exists that the proposed work may damage or destroy presently unknown archeological, scientific, prehistorical, historical sites, or data. Copies of this notice are being sent to the State Archeologist and the State Historic Preservation Officer.

Our initial finding is that the proposed work would neither affect any species listed as endangered by the U.S. Departments of Interior or Commerce, nor affect any habitat designated as critical to the survival and recovery of any endangered species Utilizing Standard Local Operating Procedure for Endangered Species in Louisiana (SLOPES), dated October 22, 2014, between the U.S. Army Corps of Engineers, New Orleans and U.S. Fish and Wildlife Service, Ecological Services Office, the Corps has determined that the proposed activity would have no effect on any listed species.

This notice initiates the Essential Fish Habitat (EFH) consultation requirements of the Magnuson-Stevens Fishery Conservation and Management Act. The applicant's proposal would result in the destruction or alteration of up to 0 acres of EFH utilized by various life stages of red drum and penaeid shrimp. Our initial determination is that the proposed action would not have a substantial adverse impact on EFH or federally managed fisheries in the Gulf of Mexico. Our final determination relative to project impacts and the need for mitigation measures is subject to review by and coordination with the National Marine Fisheries Service.

If the proposed work involves deposits of dredged or fill material into navigable waters, the evaluation of the probable impacts will include the application of guidelines established by the Administrator of the Environmental Protection Agency. Also, a certification that the proposed activity will not violate water quality standards will be required from the Department of Environmental Quality, Office of Environmental Services before a permit is issued.

Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for public hearings shall state, with particularity, the reasons for holding a public hearing. You are requested to communicate the information contained in this notice to any other parties whom you deem likely to have interest in the matter.

The applicant has certified that the proposed activity described in the application complies with and will be conducted in a manner that is consistent with the Louisiana Coastal Resources Program (Louisiana Coastal Zone Application P20190675. The Department of the Army permit will not be issued unless the applicant received approval or a waiver of the Coastal Use Permit by the Department of Natural Resources.

JOHN M. HERMAN  
Chief, Central Evaluation Section  
Regulatory Branch

Enclosures

# LOCKPORT TO LAROSE HURRICANE PROTECTION PROJECT

## REACH B - CLAUDET RETURN TO PARR PUMP STATION

### REACH "B1" ±6200 LNFT



**STATE VICINITY MAP**  
NOT TO SCALE

**APPLICATION BY: NORTH LAFOURCHE LEVEE DISTRICT**  
**PROPOSED: HURRICANE PROTECTION LEVEE--REACH "B1" ±6,200 LNFT**

NEAR LOCKPORT, LAFOURCHE PARISH, LOUISIANA

STATE VICINITY MAP



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 CIVIL ENGINEERS      NAVAL ARCHITECTS  
 LAND SURVEYORS      MARINE ENGINEERS

P.O. BOX 687  
 CUT OFF, LOUISIANA 70345  
 (985) 632-5786

SHEET: 1 OF 16

REVISION:

JN: 0411-1901

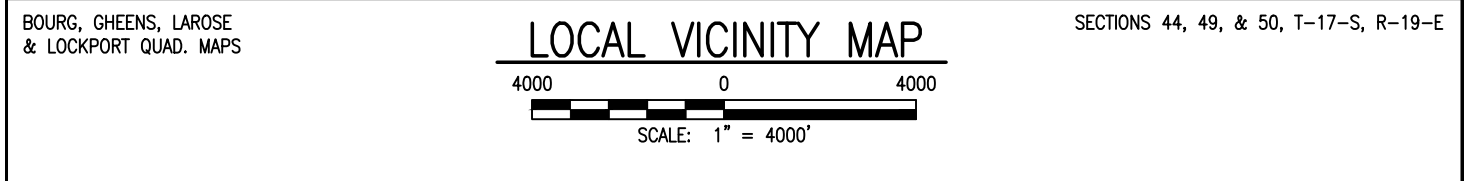
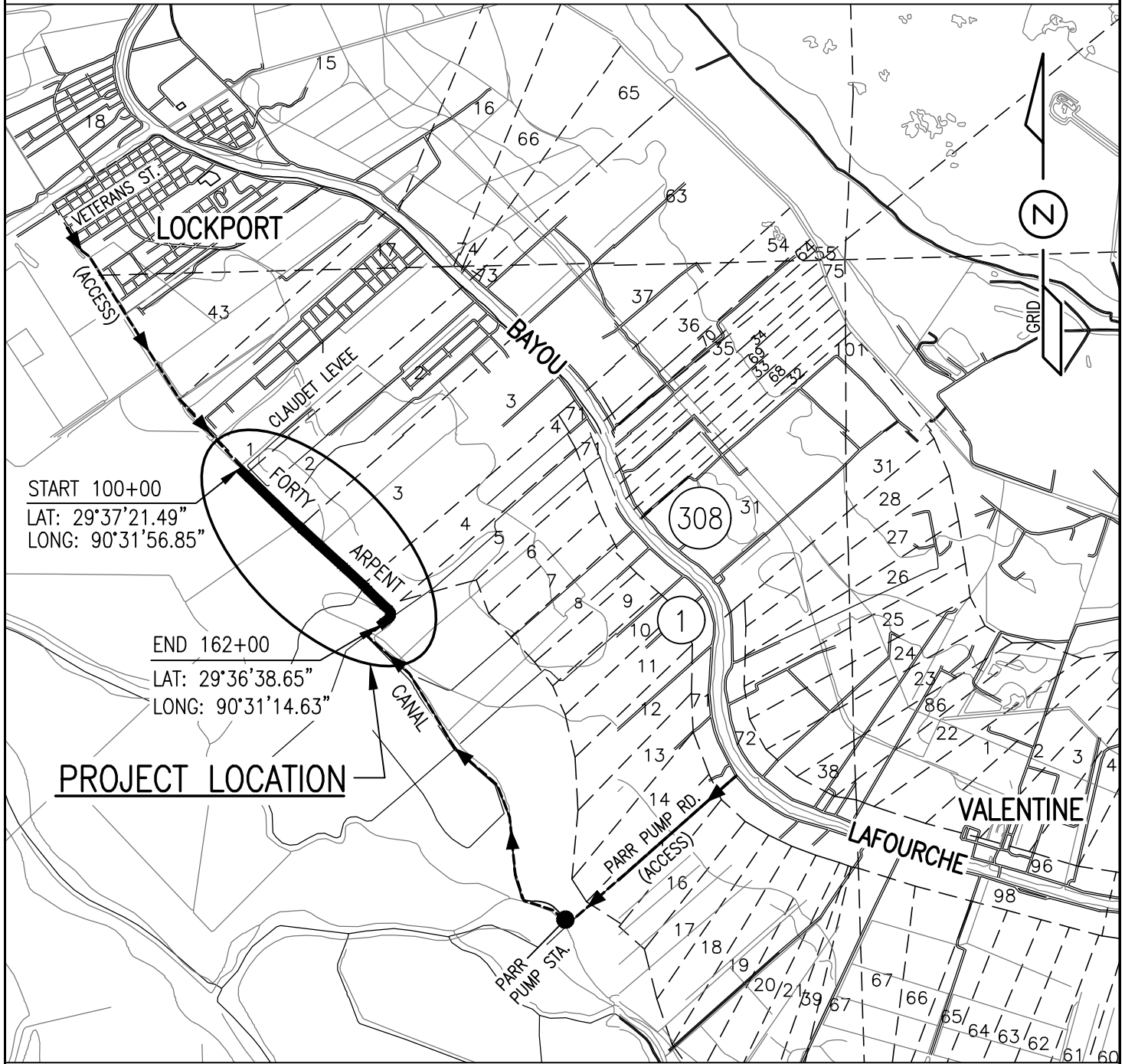
JUNE 18, 2019

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# LOCKPORT TO LAROSE HURRICANE PROTECTION PROJECT

## REACH B - CLAUDET RETURN TO PARR PUMP STATION

### REACH "B1" ±6200 LNFT



**APPLICATION BY:** NORTH LAFOURCHE LEVEE DISTRICT  
**PROPOSED:** HURRICANE PROTECTION LEVEE--REACH "B1" ±6,200 LNFT

NEAR LOCKPORT, LAFOURCHE PARISH, LOUISIANA

SHEET: 2 OF 16      REVISION:

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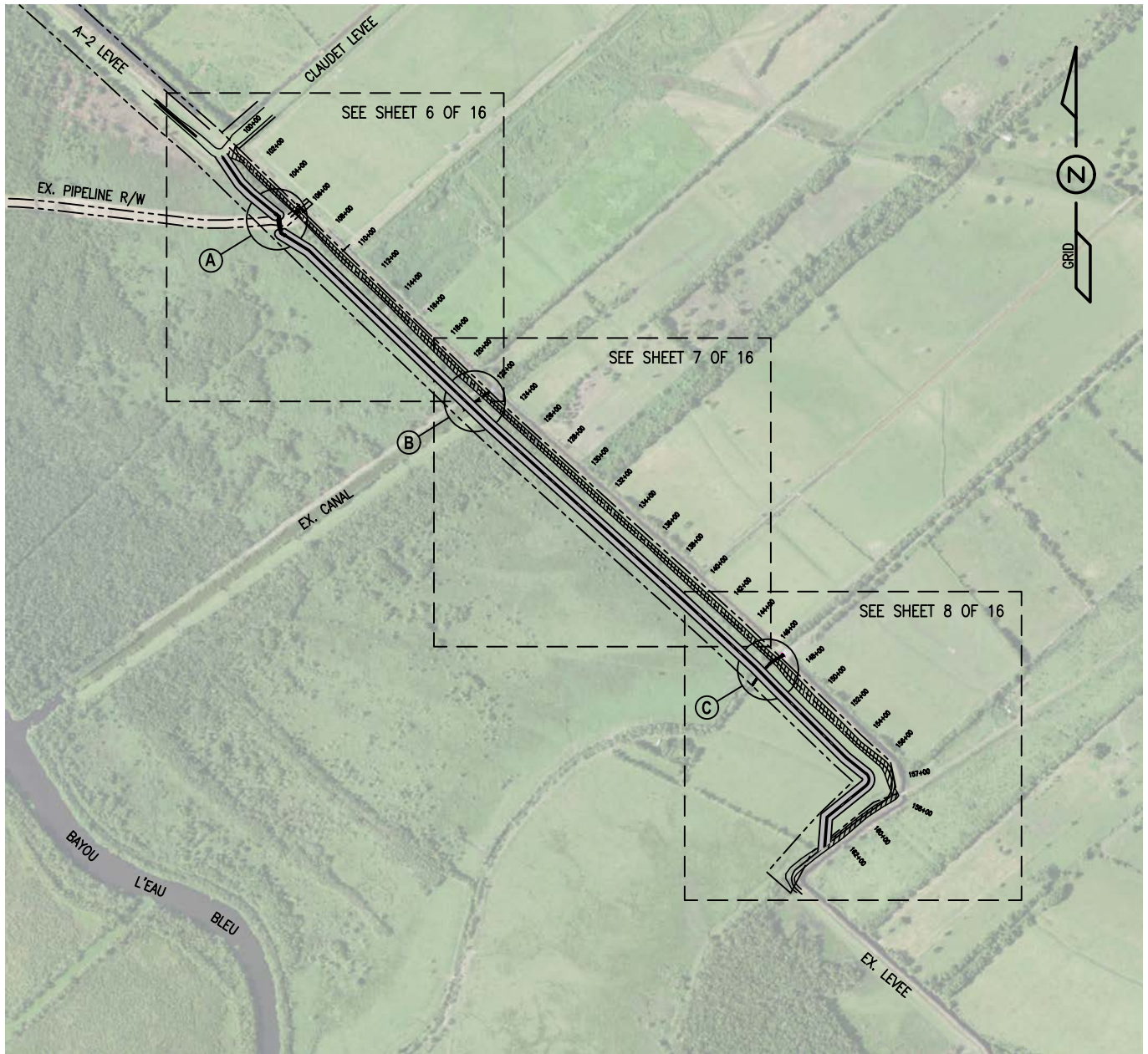
P.O. BOX 867  
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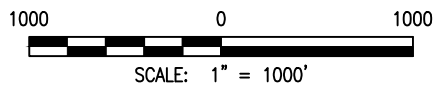
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LOCKPORT TO LAROSE HURRICANE PROTECTION PROJECT, REACH B-CLAUDET RETURN TO PARR PUMP STATION  
**REACH "B1" ±6200 LNFT**



**PROJECT KEY PLAN**



**STRUCTURES LEGEND:**

- A** PROPOSED PIPELINE CROSSING THROUGH T-WALL
- B** PROPOSED CULVERT CROSSING WITH SLUICE GATE
- C** PROPOSED AGGREGATE ROAD CROSSING

APPLICATION BY: **NORTH LAFOURCHE LEVEE DISTRICT**  
 PROPOSED: **HURRICANE PROTECTION LEVEE-REACH "B1" ±6,200 LNFT**

NEAR LOCKPORT, LAFOURCHE PARISH, LOUISIANA

PROJECT KEY PLAN



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SHEET: 3 OF 16

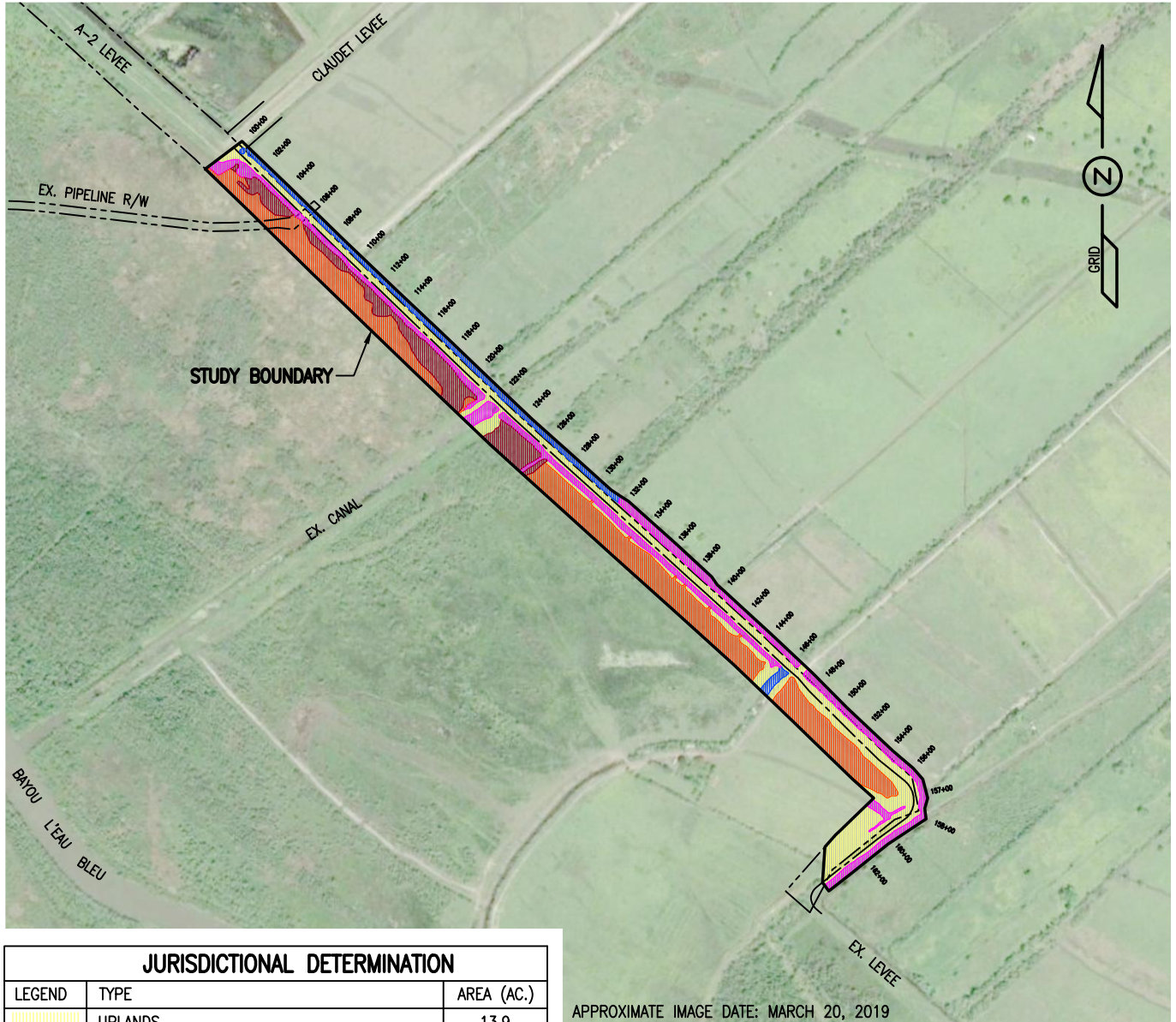
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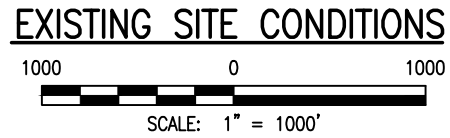
JUNE 18, 2019

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LOCKPORT TO LAROSE HURRICANE PROTECTION PROJECT, REACH B-CLAUDET RETURN TO PARR PUMP STATION  
**REACH "B1" ±6200 LNFT**



JURISDICTIONAL DETERMINATION		
LEGEND	TYPE	AREA (AC.)
	UPLANDS	13.9
	MAN-MADE DITCH (OPEN WATER)	2.4
	MAN-MADE DITCH (WETLAND CHARACTERISTICS)	7.1
	WETLANDS (EMERGENT)	14.2
	WETLANDS (FORESTED)	4.4
<b>STUDY AREA</b>		<b>41.9</b>



**NOTES:**

- EXISTING PROJECT SITE CONDITIONS AS DETERMINED BY SECTION 404 (WETLAND) DELINEATION DATED MAY 22, 2019, CONDUCTED BY ROWDEN CONSULTING, LLC. IN ACCORDANCE WITH THE U.S. ARMY CORPS OF ENGINEERS 1987 WETLAND DELINEATION MANUAL AND THE USACE REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL: ATLANTIC AND GULF COASTAL PLAN REGION (VERSION 2) AND THE DECEMBER 4, 2018 USACE NEW ORLEANS DISTRICT REGULATORY BRANCH MVN WETLANDS DELINEATION REPORTS REQUIREMENTS.

APPLICATION BY: **NORTH LAFOURCHE LEVEE DISTRICT**  
 PROPOSED: **HURRICANE PROTECTION LEVEE-REACH "B1" ±6,200 LNFT**

NEAR LOCKPORT, LAFOURCHE PARISH, LOUISIANA

EXISTING SITE CONDITIONS



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SHEET: 4 OF 16

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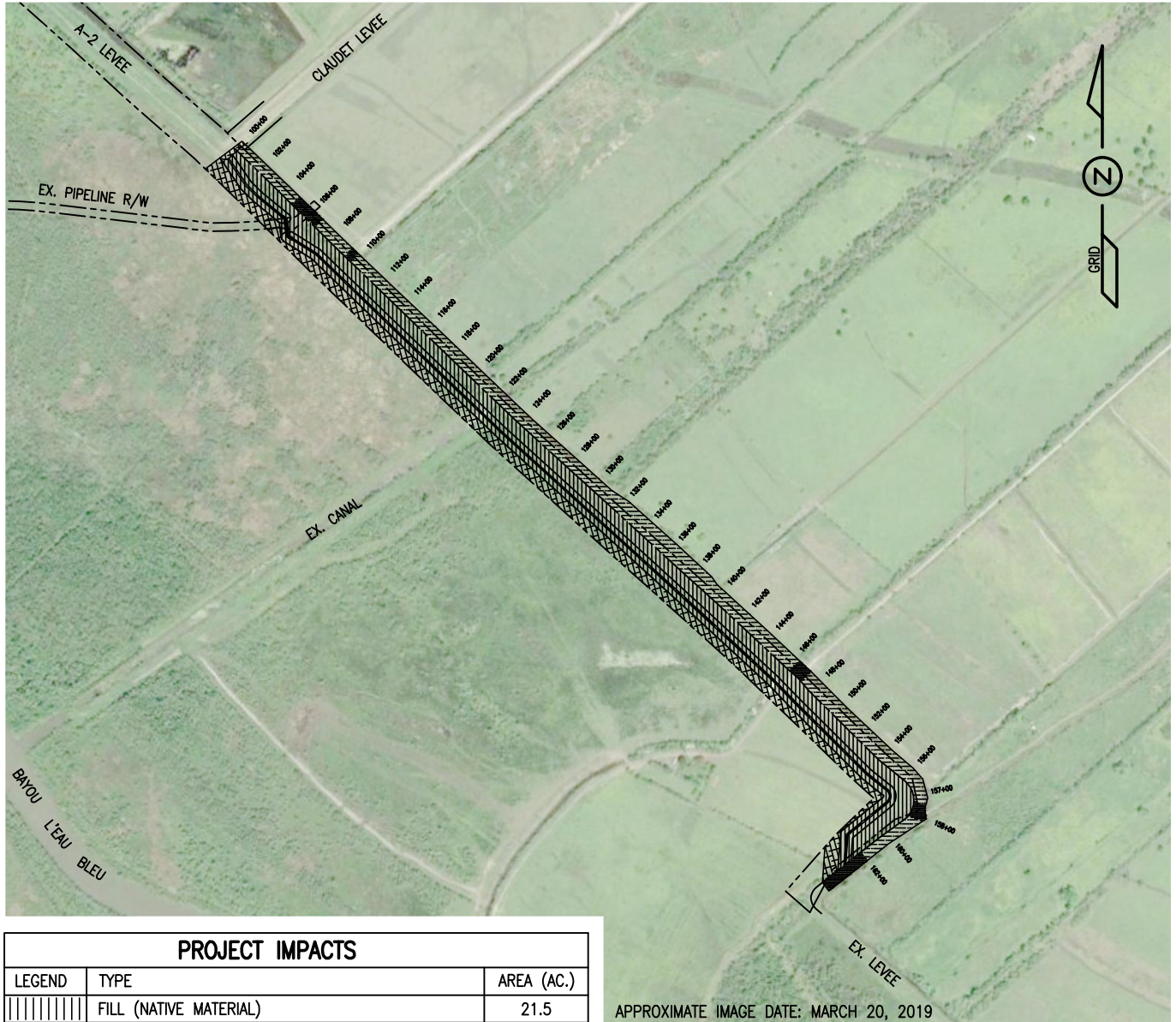
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JUNE 18, 2019

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LOCKPORT TO LAROSE HURRICANE PROTECTION PROJECT, REACH B-CLAUDET RETURN TO PARR PUMP STATION  
**REACH "B1" ±6200 LNFT**

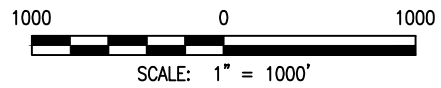


PROJECT IMPACTS		
LEGEND	TYPE	AREA (AC.)
	FILL (NATIVE MATERIAL)	21.5
	T-WALL (CONCRETE)	0.1
	EXCAVATION	10.7
	NO EXCAVATION (@ EX. PIPELINES & STRUCTURES)	1.2
	CLEARING (OUTSIDE LEVEE FOOTPRINT)	8.4
<b>OVERALL IMPACT AREA</b>		<b>41.9</b>

**APPROXIMATE QUANTITIES**

FILL (NATIVE MATERIAL): ±236,683 CUYD  
 EXCAVATION: ±117,290 CUYD  
 T-WALL-CONCRETE: ±140 CUYD  
 T-WALL-PILES: 36 @ 55FT  
 SHEET PILE: ±337 LNFT  
 FENCING: ±836 LNFT  
 GATES: ±2 EACH  
 AGGREGATE: ±56 CUYD  
 CULVERT: ±182 LNFT

**PROJECT IMPACTS SITE PLAN**



APPLICATION BY: **NORTH LAFOURCHE LEVEE DISTRICT**  
 PROPOSED: **HURRICANE PROTECTION LEVEE-REACH "B1" ±6,200 LNFT**

NEAR LOCKPORT, LAFOURCHE PARISH, LOUISIANA

PROJECT IMPACTS SITE PLAN



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SHEET: 5 OF 16

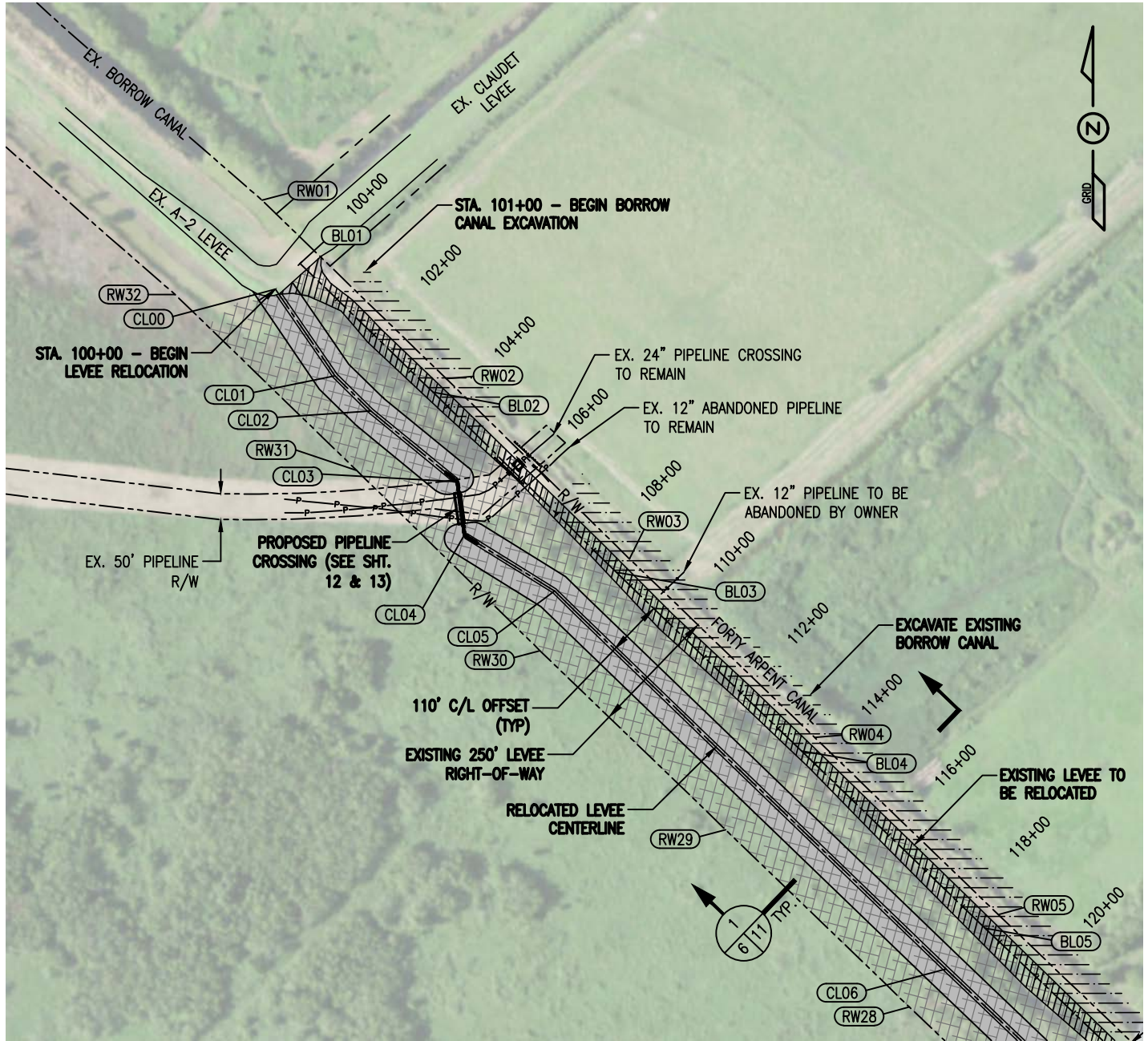
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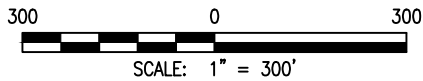
JUNE 18, 2019



LOCKPORT TO LAROSE HURRICANE PROTECTION PROJECT, REACH B-CLAUDET RETURN TO PARR PUMP STATION  
**REACH "B1" ±6200 LNFT**



**PROJECT SITE PLAN 1 OF 3**



**LEGEND:**

- LEVEE RIGHT-OF-WAY
- LEVEE BASELINE/CENTERLINE
- ||||| EXISTING LEVEE (TO BE REMOVED)
- XXXXX CLEARING & GRUBBING
- EXCAVATION
- ===== PROPOSED LEVEE

**NOTE:**

REFERENCE SHEETS 10 THROUGH 16 FOR TYPICAL LEVEE SECTIONS AND DETAILS.

APPLICATION BY: **NORTH LAFOURCHE LEVEE DISTRICT**  
 PROPOSED: **HURRICANE PROTECTION LEVEE-REACH "B1" ±6,200 LNFT**



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PROJECT SITE PLAN 1 OF 3

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SHEET: 6 OF 16

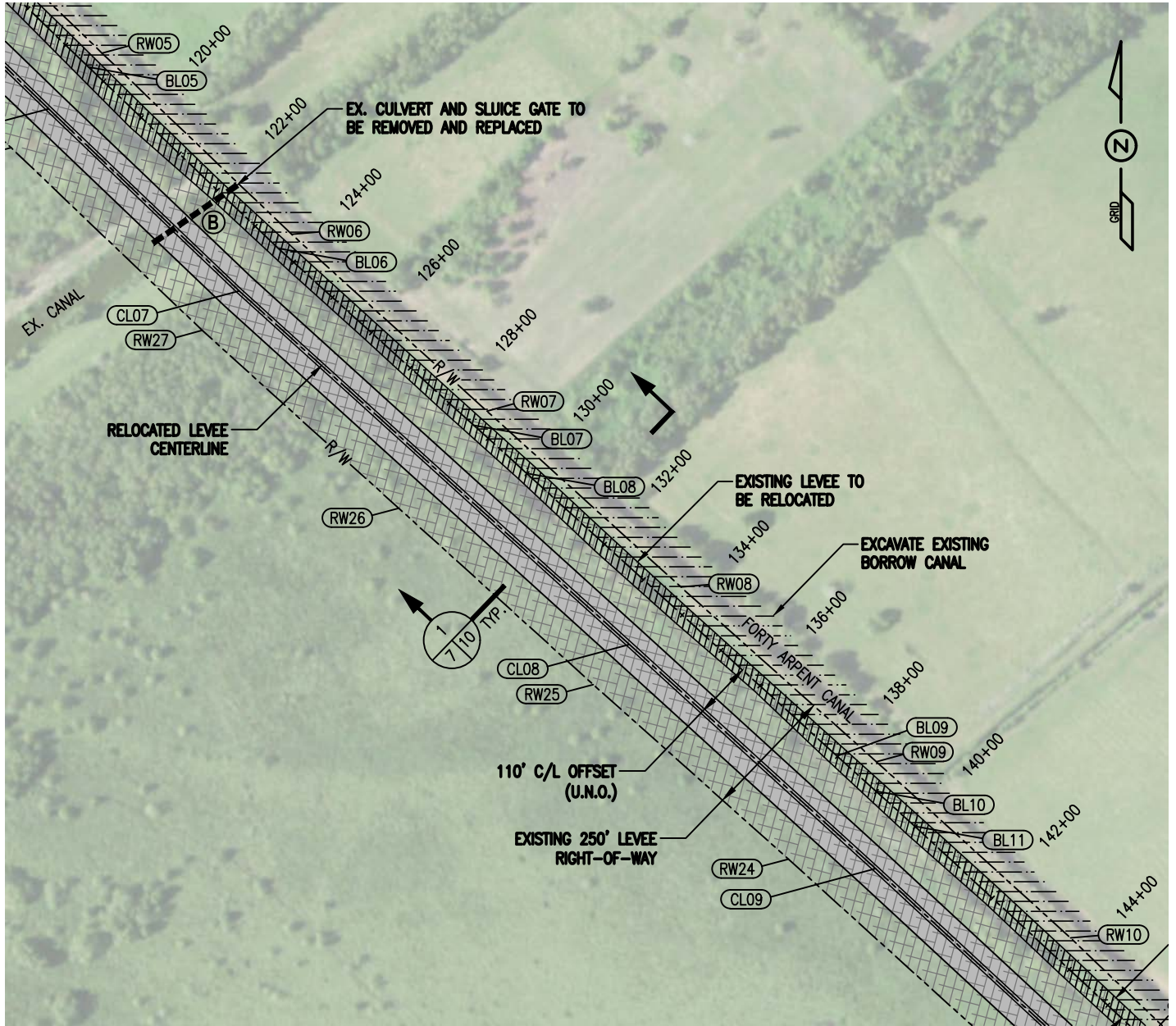
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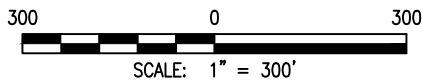
JUNE 18, 2019

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LOCKPORT TO LAROSE HURRICANE PROTECTION PROJECT, REACH B-CLAUDET RETURN TO PARR PUMP STATION  
**REACH "B1" ±6200 LNFT**



**PROJECT SITE PLAN 2 OF 3**



**LEGEND:**

- LEVEE RIGHT-OF-WAY
- - - LEVEE BASELINE/CENTERLINE
- /// EXISTING LEVEE (TO BE REMOVED)
- CLEARING
- ▨ EXCAVATION
- ▬ PROPOSED LEVEE

**NOTE:**

REFERENCE SHEETS 10 THROUGH 16 FOR TYPICAL LEVEE SECTIONS AND DETAILS.

APPLICATION BY: **NORTH LAFOURCHE LEVEE DISTRICT**  
 PROPOSED: **HURRICANE PROTECTION LEVEE-REACH "B1" ±6,200 LNFT**

NEAR LOCKPORT, LAFOURCHE PARISH, LOUISIANA

PROJECT SITE PLAN 2 OF 3



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SHEET: 7 OF 16

REVISION:

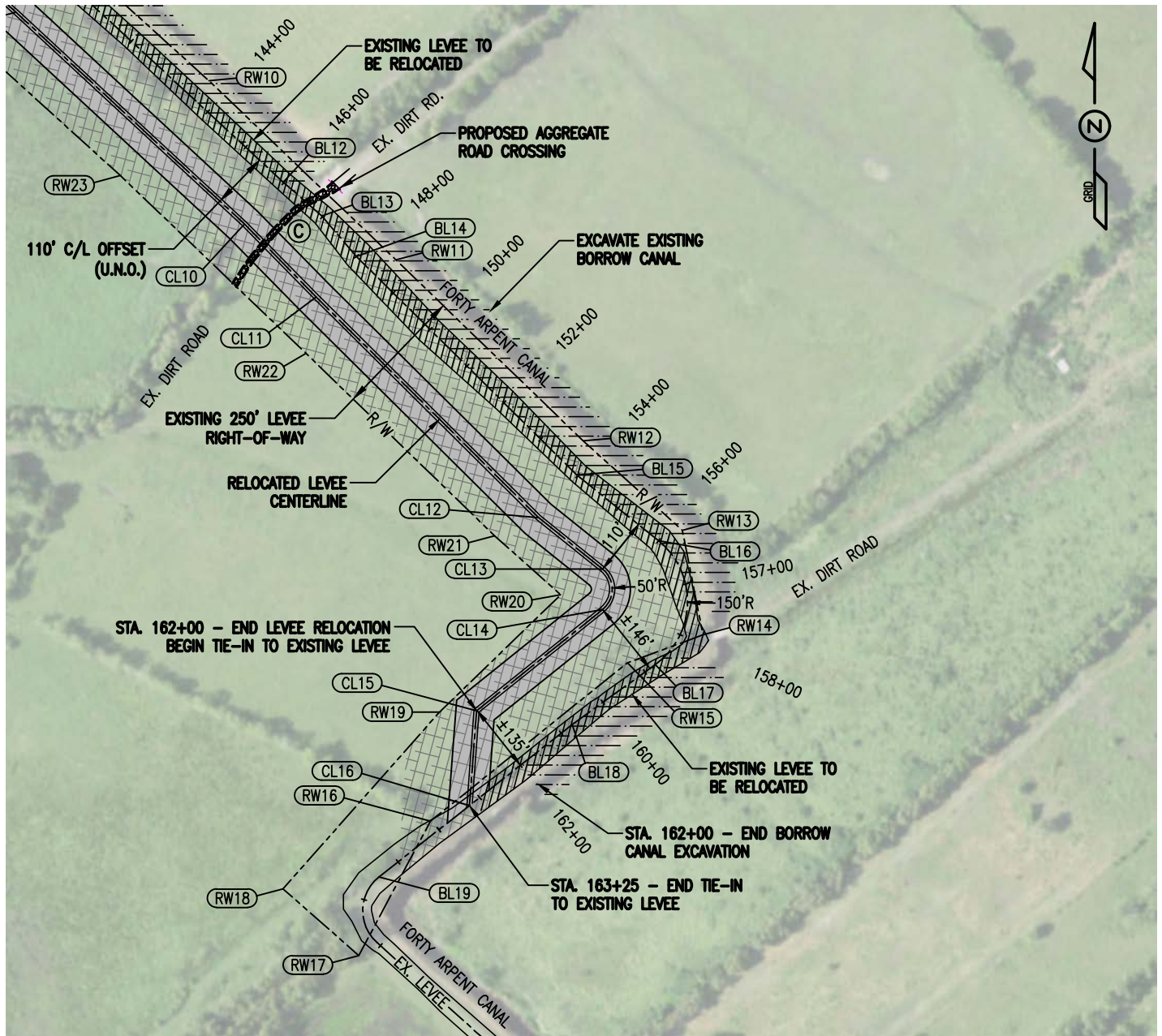
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JUNE 18, 2019

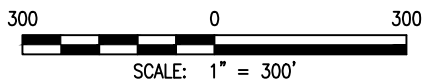
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LOCKPORT TO LAROSE HURRICANE PROTECTION PROJECT, REACH B-CLAUDET RETURN TO PARR PUMP STATION  
**REACH "B1" ±6200 LNFT**



**PROJECT SITE PLAN 3 OF 3**



**LEGEND:**

- LEVEE RIGHT-OF-WAY
- LEVEE BASELINE/CENTERLINE
- ////// EXISTING LEVEE (TO BE REMOVED)
- XXXXXX CLEARING
- ===== EXCAVATION
- ===== PROPOSED LEVEE

**NOTE:**

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NEAR LOCKPORT, LAFOURCHE PARISH, LOUISIANA

PROJECT SITE PLAN 3 OF 3



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SHEET: 8 OF 16

REVISION:

JN: 0411-1901

JUNE 18, 2019

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LOCKPORT TO LAROSE HURRICANE PROTECTION PROJECT, REACH B-CLAUDET RETURN TO PARR PUMP STATION  
**REACH "B1" ±6200 LNFT**

**EXISTING LEVEL BASELINE**

PNT.	NORTHING-EASTING	BEARING	DIST.
BL01	409202.23 3535341.44	S 45°53'45" E	360.77'
BL02	408951.14 3535600.50	S 45°28'27" E	500.84'
BL03	408599.93 3535957.57	S 46°01'23" E	501.78'
BL04	408251.51 3536318.66	S 46°00'56" E	497.29'
BL05	407906.16 3536676.47	S 46°17'59" E	500.17'
BL06	407560.60 3537038.08	S 47°51'33" E	502.31'
BL07	407223.57 3537410.54	S 47°47'53" E	135.66'
BL08	407132.44 3537511.04	S 47°39'58" E	800.00'
BL09	406593.68 3538102.42	S 47°55'22" E	100.00'
BL10	406526.67 3538176.65	S 47°55'22" E	100.00'
BL11	406459.65 3538250.87	S 47°10'07" E	600.02'
BL12	406051.74 3538690.90	S 48°35'27" E	98.90'
BL13	405986.32 3538765.08	S 40°36'02" E	102.60'
BL14	405908.42 3538831.85	S 45°13'58" E	597.58'
BL15	405487.59 3539256.11	S 51°10'47" E	201.92'
BL16	405361.01 3539413.43	S 01°31'06" W	238.64'
BL17	405122.46 3539407.11	S 54°12'59" W	197.15'
BL18	405007.18 3539247.17	S 51°42'37" W	474.07'
BL19	404713.43 3538875.09		

**EXISTING LEVEL RIGHT-OF-WAY**

PNT.	NORTHING-EASTING	BEARING	DIST.
RW01	409325.70 3535267.09	S 45d53'45" E	500.24'
RW02	408977.55 3535626.30	S 45d28'27" E	500.81'
RW03	408626.37 3535983.35	S 46d1'23" E	501.62'
RW04	408278.06 3536344.32	S 46d0'56" E	497.19'
RW05	407932.78 3536702.06	S 46d17'59" E	499.58'
RW06	407587.62 3537063.24	S 47d51'33" E	501.83'
RW07	407250.92 3537435.35	S 47d47'53" E	499.39'
RW08	406915.46 3537805.29	S 48d12'46" E	499.06'
RW09	406582.90 3538177.40	S 47d47'23" E	499.66'
RW10	406247.20 3538547.49	S 46d13'30" E	499.13'
RW11	405901.89 3538907.89	S 45d58'7" E	501.11'
RW12	405553.59 3539268.17	S 47d55'45" E	257.51'
RW13	405381.05 3539459.32	S 11d10'39" E	205.11'
RW14	405179.83 3539499.08	S 69d39'44" W	155.34'
RW15	405125.84 3539353.43	S 51d12'19" W	486.44'
RW16	404821.07 3538974.30	S 28d3'48" W	293.37'
RW17	404562.19 3538836.28	N 48d39'3" W	194.42'
RW18	404690.63 3538690.33	N 41d31'15" E	454.86'
RW19	405031.19 3538991.86	N 45d54'53" E	324.39'
RW20	405256.88 3539224.87	N 48d9'17" W	170.47'
RW21	405370.61 3539097.87	N 45d58'7" W	505.32'
RW22	405721.83 3538734.57	N 46d13'30" W	495.16'
RW23	406064.40 3538377.03	N 47d47'23" W	495.33'
RW24	406397.18 3538010.15	N 48d12'46" W	499.04'
RW25	406729.73 3537638.05	N 47d47'53" W	500.16'
RW26	407065.71 3537267.55	N 47d51'33" W	505.10'
RW27	407404.61 3536893.01	N 46d17'59" W	503.60'
RW28	407752.54 3536528.93	N 46d0'56" W	497.79'
RW29	408098.23 3536170.76	N 46d1'23" W	502.80'
RW30	408447.36 3535808.93	N 45d28'27" W	501.08'
RW31	408798.74 3535451.69	N 45d53'45" W	492.66'
RW32	409141.61 3535097.93		

**PROPOSED LEVEL CENTERLINE**

PNT.	NORTHING-EASTING	BEARING	DIST.
CL00	409152.32 3535293.06	S 34°30'54" E	205.23'
CL01	408983.21 3535409.35	S 45°34'33" E	98.19'
CL02	408914.48 3535479.48	S 50°39'45" E	217.07'
CL03	408776.89 3535647.37	S 07°42'53" E	105.00'
CL04	408672.84 3535661.46	S 58°12'14" E	206.74'
CL05	408563.91 3535837.17	S 45°59'38" E	1060.95'
CL06	407826.83 3536600.28	S 46°18'00" E	502.10'
CL07	407479.94 3536963.28	S 47°49'44" E	1003.41'
CL08	406806.30 3537706.95	S 47°40'18" E	634.58'
CL09	406378.98 3538176.09	S 47°10'07" E	600.02'
CL10	405971.07 3538616.12	S 44°29'27" E	197.30'
CL11	405830.32 3538754.38	S 45°13'58" E	603.29'
CL12	405405.47 3539182.70	S 51°10'47" E	157.86'
CL13	405306.51 3539305.69	S 00°00'43" W	77.92'
CL14	405228.59 3539305.67	S 51°12'14" W	311.32'
CL15	405033.53 3539063.04	S 04°17'47" W	183.06'
CL16	404850.98 3539049.33		

**NOTES:**

- EXISTING LEVEL BASELINE WAS DERIVED FROM THE EXISTING LEVEL CROWN ALIGNMENT.
- THE EXISTING LEVEL RIGHT-OF-WAY IS MORE FULLY SHOWN ON A SURVEY PLAT PREPARED BY DAVID A. WAITZ ENGINEERING AND SURVEYING, INC. DATED OCTOBER 26, 2000 AND TITLED "NORTH LAFOURCHE CONSERVATION LEVEL AND DRAINAGE DISTRICT", MAP SHOWING PROPOSED 250' RIGHT OF WAY CONTAINING 55.885 ACRES ALONG THE 40 ARPENT CANAL, FROM TOM FORET PUMP STATION TO APPROX. 2.75 MILES SOUTHEAST OF TOM FORET PUMP STATION, NEAR LOCKPORT LA., J.N. 00-016.

APPLICATION BY: **NORTH LAFOURCHE LEVEL DISTRICT**  
 PROPOSED: **HURRICANE PROTECTION LEVEL-REACH "B1" ±6,200 LNFT**

NEAR LOCKPORT, LAFOURCHE PARISH, LOUISIANA

COORDINATES TABLES



**PICCIOLA & ASSOCIATES, INC.**  
 CIVIL ENGINEERS LAND SURVEYORS NAVAL ARCHITECTS MARINE ENGINEERS

P.O. BOX 687  
 CUT OFF, LOUISIANA 70345  
 (985) 632-5786

SHEET: 9 OF 16

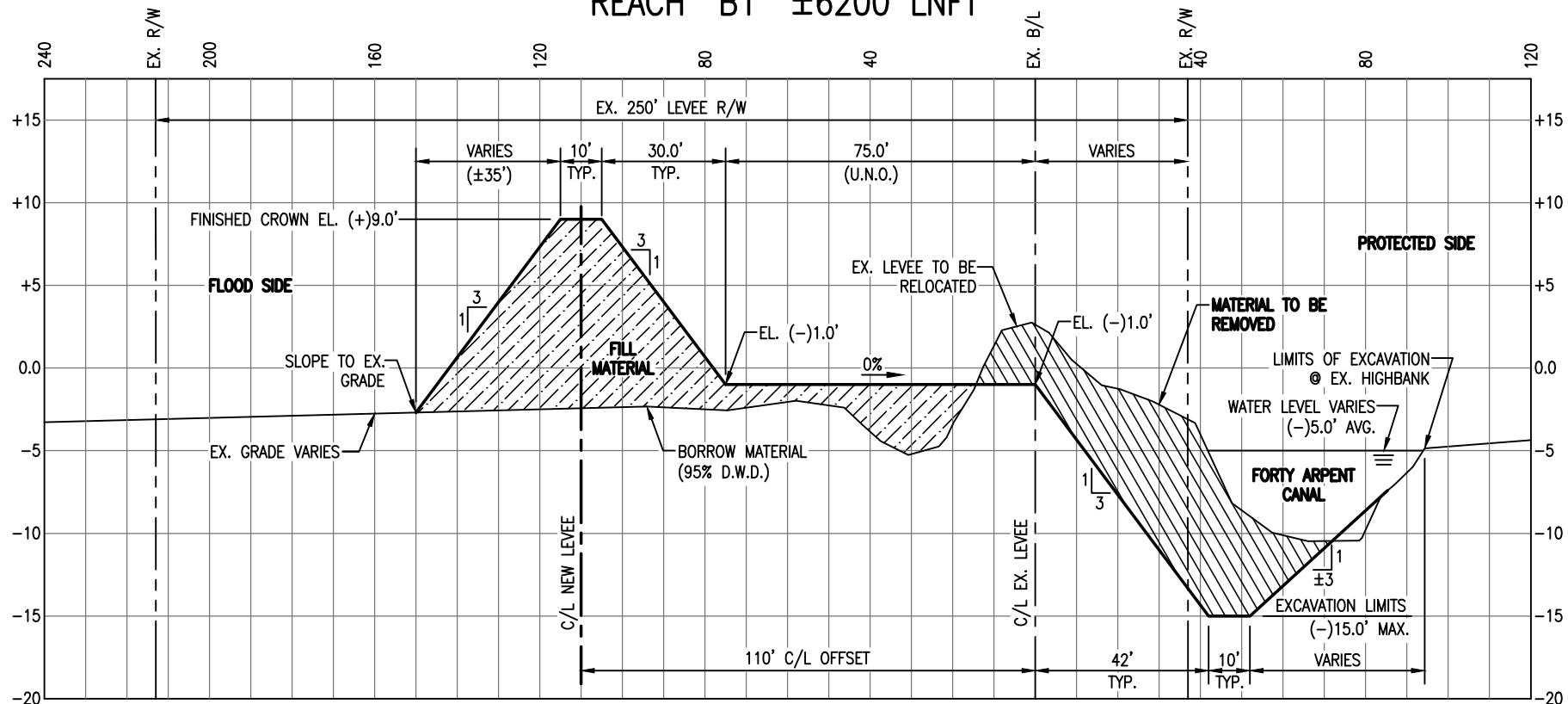
REVISION:

JN: 0411-1901

JUNE 18, 2019

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LOCKPORT TO LAROSE HURRICANE PROTECTION PROJECT, REACH B-CLAUDET RETURN TO PARR PUMP STATION  
**REACH "B1" ±6200 LNFT**



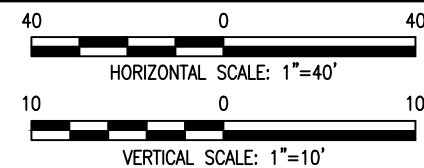
**NOTES:**

1. CONTRACTOR SHALL BE RESPONSIBLE TO CHOP THE LEVEE SECTION PRIOR TO PLACING BORROW MATERIAL IN SAID SECTION.
2. THE EXCAVATED MATERIAL FROM THE EXISTING LEVEE AND BORROW CANAL SHALL BE UTILIZED TO CONSTRUCT THE NEW LEVEE BASE PLATFORM. NEW BORROW MATERIAL SHALL BE PLACED OVER THE EXISTING ON-SITE BORROW.
3. NEW BORROW MATERIAL SHALL BE PROVIDED BY A BORROW PIT THAT IS PRE-APPROVED BY THE PROJECT ENGINEER PRIOR TO BEGINNING HAULING OPERATIONS. BORROW MATERIAL SHALL MEET REQUIRED SPECIFICATIONS. MATERIAL NOT MEETING REQUIRED SPECIFICATIONS WILL NOT BE ALLOWED WITHIN THE LEVEE CROSS SECTION.
4. MATERIAL SHALL BE INSTALLED AND COMPACTED IN LIFTS AS REQUIRED IN THE PROJECT SPECIFICATIONS.

**VOLUMES:**

- EXCAVATION - ±117,290 CUYD
- BORROW - ±236,683 CUYD

**TYPICAL LEVEE DESIGN SECTION**



APPLICATION BY: **NORTH LAFOURCHE LEVEE DISTRICT**  
 PROPOSED: **HURRICANE PROTECTION LEVEE-REACH "B1" ±6,200 LNFT**

NEAR LOCKPORT, LAFOURCHE PARISH, LOUISIANA

SHEET: 10 OF 16      REVISION:

TYPICAL LEVEE SECTION



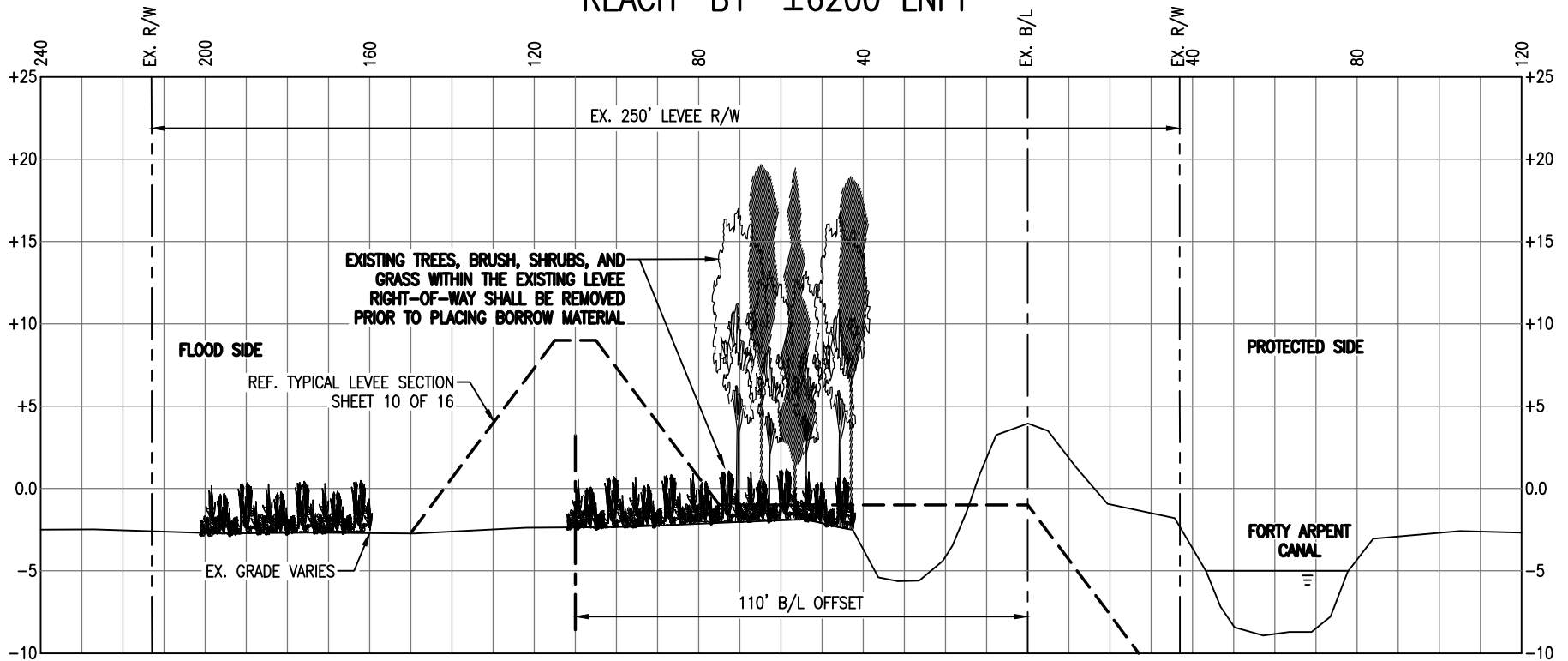
**PICCIOLA & ASSOCIATES, INC.**  
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 LAND SURVEYORS      MARINE ENGINEERS

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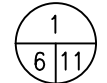
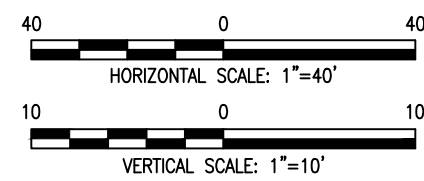
LOCKPORT TO LAROSE HURRICANE PROTECTION PROJECT, REACH B-CLAUDET RETURN TO PARR PUMP STATION  
**REACH "B1" ±6200 LNFT**



**NOTES**

1. CONTRACTOR SHALL BE RESPONSIBLE TO DEGRASS (STRIP) LEVEE WORK AREAS PRIOR TO PLACING BORROW MATERIAL. DEGRASS MATERIAL SHALL BE STOCKPILED OUTSIDE THE LIMITS OF THE LEVEE SECTION, WITHIN THE EXISTING 250' LEVEE RIGHT-OF-WAY, UNTIL FINISHED GRADE IS ACHIEVED. ONCE THE LEVEE SECTION IS COMPLETE, THE DEGRASS MATERIAL SHALL BE SPREAD OVER THE LEVEE SECTION PRIOR TO SEEDING AND FERTILIZING.
2. CLEARING AND GRUBBING SHALL OCCUR IN ALL LOCATIONS WHERE TREES AND SHRUBS ARE EXISTING WITHIN THE PROPOSED LEVEE FOOTPRINT. NO CLEARING AND GRUBBING SHALL NOT BE PERFORMED OUTSIDE THE EXISTING LEVEE RIGHT-OF-WAY.
3. CONTRACTOR SHALL CLEAN AND REMOVE ALL TRASH AND UNSUITABLE MATERIAL WITHIN PROJECT LIMITS PRIOR TO END OF CONTRACT. UNLESS NOTED OTHERWISE, TRASH, DEBRIS AND UNSUITABLE MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND MUST BE REMOVED FROM THE PROJECT SITE.
4. CONTRACTOR SHALL BE ALLOWED TO BURN TREES, BRUSH, GRASS AND OTHER DEBRIS GENERATED FROM THE CLEARING & GRUBBING PROCESSES.
5. SAID BURNING SHALL COMPLY WITH THE CODE OR ORDINANCES OF LAFOURCHE PARISH, LOUISIANA, ARTICLE IV, SECTION 32-97 "OPENING BURNING OF SOLID WASTE".

**TYPICAL CLEARING SECTION**



APPLICATION BY: **NORTH LAFOURCHE LEVEE DISTRICT**  
 PROPOSED: **HURRICANE PROTECTION LEVEE-REACH "B1" ±6,200 LNFT**

NEAR LOCKPORT, LAFOURCHE PARISH, LOUISIANA

SHEET: 11 OF 16

REVISION:

TYPICAL CLEARING SECTION



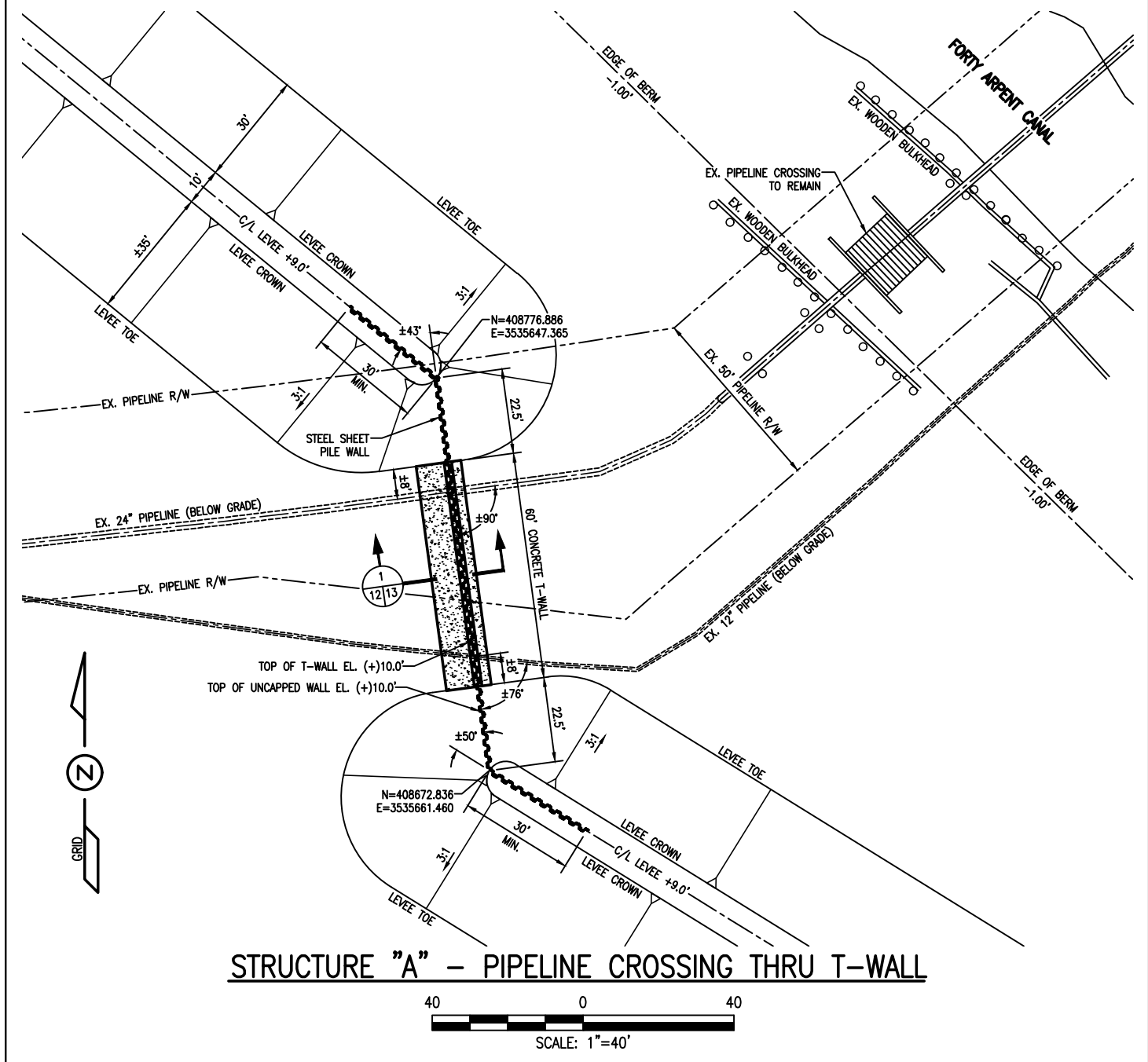
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 NAVAL ARCHITECTS MARINE ENGINEERS  
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 (985) 632-5755

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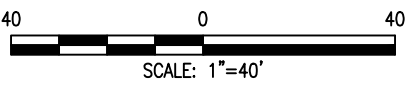
JUNE 18, 2019



LOCKPORT TO LAROSE HURRICANE PROTECTION PROJECT, REACH B-CLAUDET RETURN TO PARR PUMP STATION  
**REACH "B1" ±6200 LNFT**




**STRUCTURE "A" - PIPELINE CROSSING THRU T-WALL**



**NOTES**

1. T-WALL, SHEET PILE WALL, AND THRU WALL UTILITY PENETRATION SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH THE US ARMY CORPS OF ENGINEERS, NEW ORLEANS DISTRICT ENGINEERING DIVISION, "HURRICANE AND STORM DAMAGE RISK REDUCTION SYSTEM DESIGN GUIDELINES", INTERIM WITH REVISIONS THROUGH JUNE 2012.
2. REFERENCE SHEET 13 OF 16 FOR TYPICAL T-WALL SECTION AND PROFILE VIEW.
3. REFERENCE SHEET 10 OF 16 FOR TYPICAL LEVEE SECTION.

APPLICATION BY: **NORTH LAFOURCHE LEVEE DISTRICT**  
 PROPOSED: **HURRICANE PROTECTION LEVEE-REACH "B1" ±6,200 LNFT**  
 NEAR LOCKPORT, LAFOURCHE PARISH, LOUISIANA  
 SHEET: 12 OF 16



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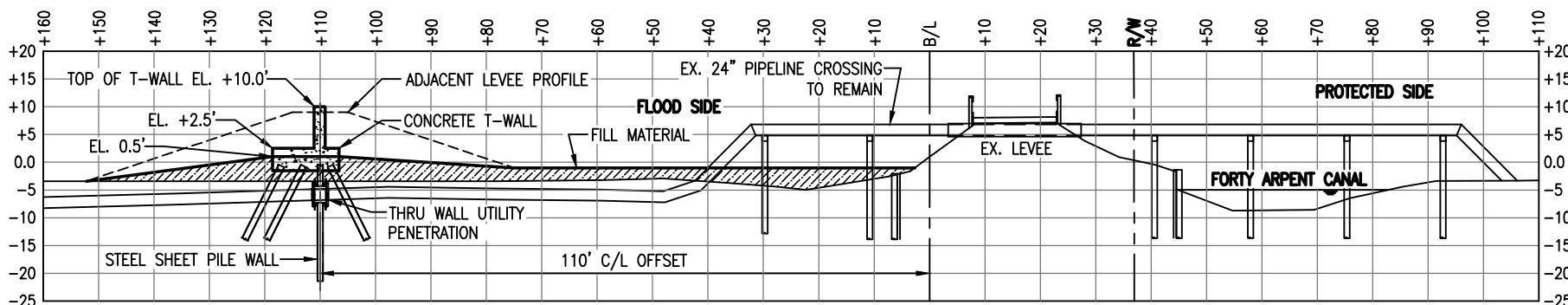
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STRUCTURE "A" - T-WALL

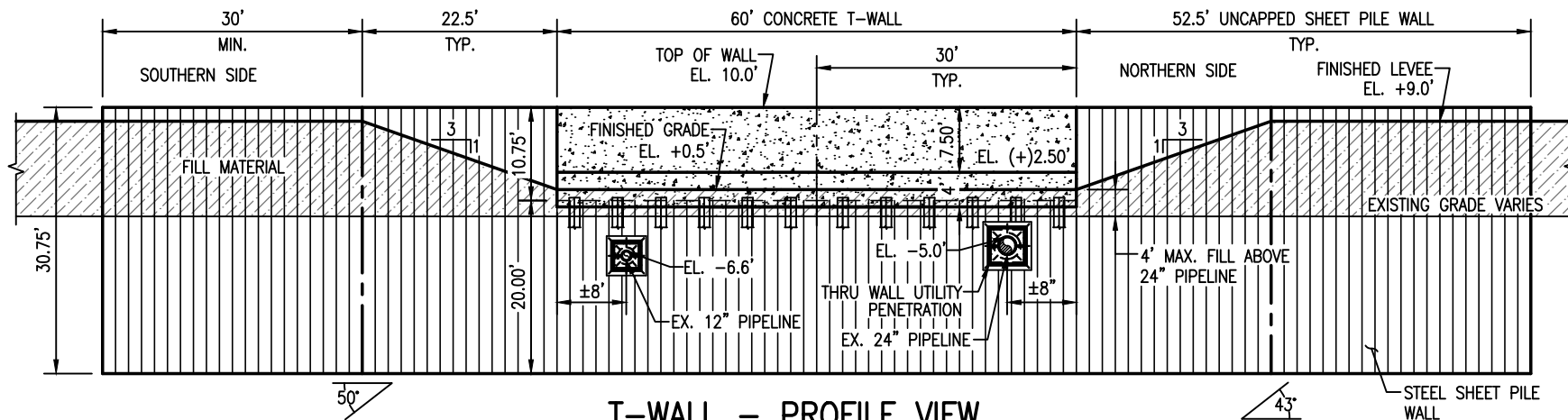
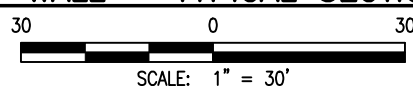
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LOCKPORT TO LAROSE HURRICANE PROTECTION PROJECT, REACH B-CLAUDET RETURN TO PARR PUMP STATION

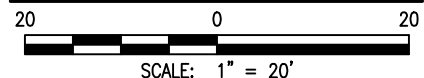
REACH "B1" ±6200 LNFT



T-WALL - TYPICAL SECTION



T-WALL - PROFILE VIEW



**NOTES**

1. T-WALL, SHEET PILE WALL, AND THRU WALL UTILITY PENETRATION SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH THE US ARMY CORPS OF ENGINEERS, NEW ORLEANS DISTRICT ENGINEERING DIVISION, "HURRICANE AND STORM DAMAGE RISK REDUCTION SYSTEM DESIGN GUIDELINES", INTERIM WITH REVISIONS THROUGH JUNE 2012.

APPLICATION BY: **NORTH LAFOURCHE LEVEE DISTRICT**  
 PROPOSED: **HURRICANE PROTECTION LEVEE-REACH "B1" ±6,200 LNFT**

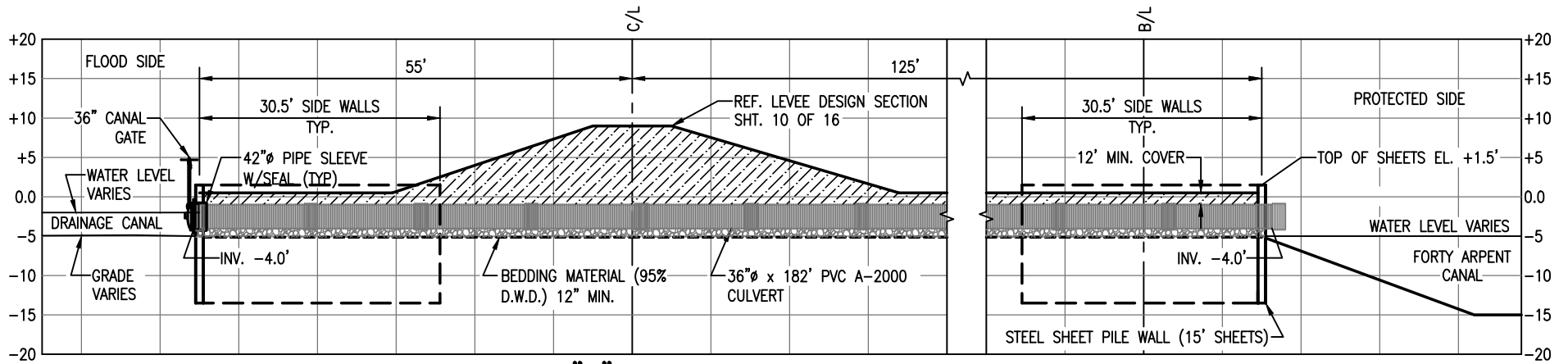
NEAR LOCKPORT, LAFOURCHE PARISH, LOUISIANA

STRUCTURE "A" - T-WALL - TYPICAL SECTION & PROFILE

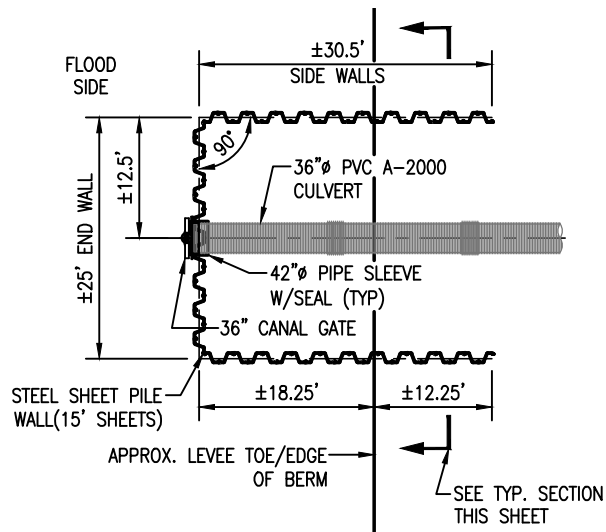
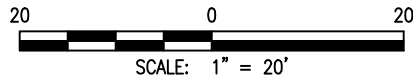


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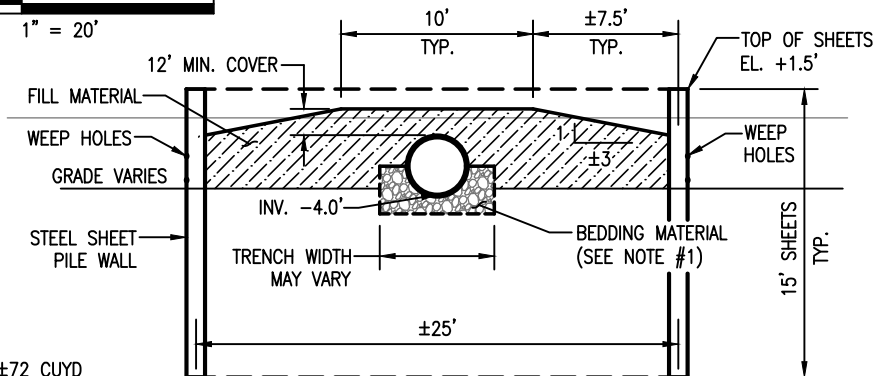
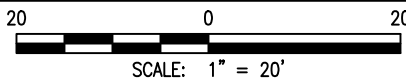
LOCKPORT TO LAROSE HURRICANE PROTECTION PROJECT, REACH B-CLAUDET RETURN TO PARR PUMP STATION  
**REACH "B1" ±6200 LNFT**



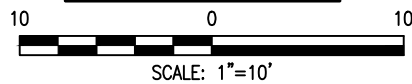
**STRUCTURE "B" - CULVERT CROSSING - PROFILE VIEW**



**CULVERT CROSSING - PLAN VIEW**



**TYPICAL SECTION**



**QUANTITIES**

- CULVERT: ±182'
- BEDDING MATERIAL: ±72 CUYD
- GEO. FABRIC: ±220 SQYD
- SHEET PILE WALL: ±172'

**NOTES**

1. ALL CULVERTS SHALL BE BEDDED ON A MINIMUM OF 12" OF COMPACTED LIMESTONE WHICH WILL EXTEND A MINIMUM OF 18" BEYOND THE OUTSIDE FACE OF THE CULVERT AND SHALL BE PLACED ON GEOTEXTILE FABRIC.
2. THE CULVERT TRENCH SHALL BE BACKFILLED TO THE HAUNCH (MIDDLE) OF THE CULVERT WITH COMPACTED BEDDING MATERIAL, THENCE BACKFILLED WITH APPROVED BORROW MATERIAL.

APPLICATION BY: **NORTH LAFOURCHE LEVEE DISTRICT**  
 PROPOSED: **HURRICANE PROTECTION LEVEE-REACH "B1" ±6,200 LNFT**

NEAR LOCKPORT, LAFOURCHE PARISH, LOUISIANA

STRUCTURE "B" - CULVERT CROSSING



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SHEET: 14 OF 16

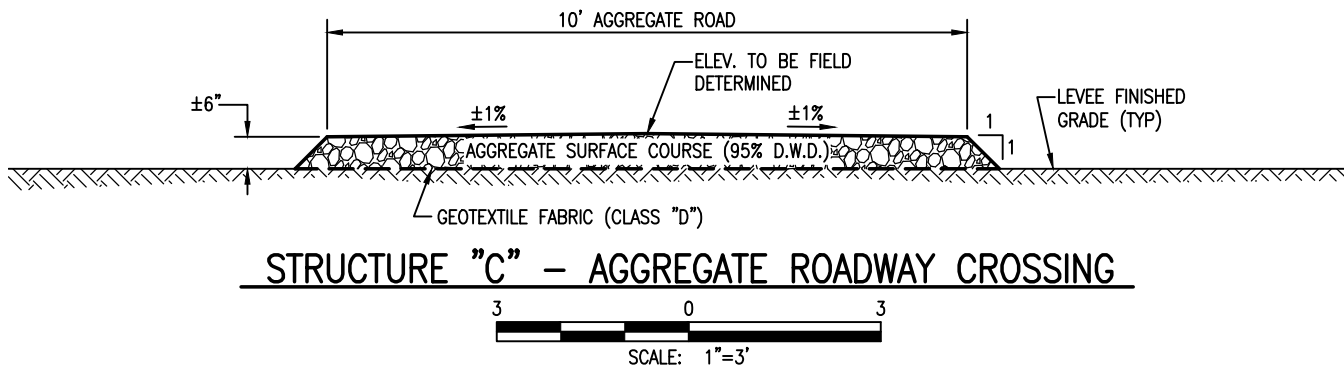
REVISION:

JN: 0411-1901

JUNE 18, 2019



LOCKPORT TO LAROSE HURRICANE PROTECTION PROJECT, REACH B-CLAUDET RETURN TO PARR PUMP STATION  
**REACH "B1" ±6200 LNFT**

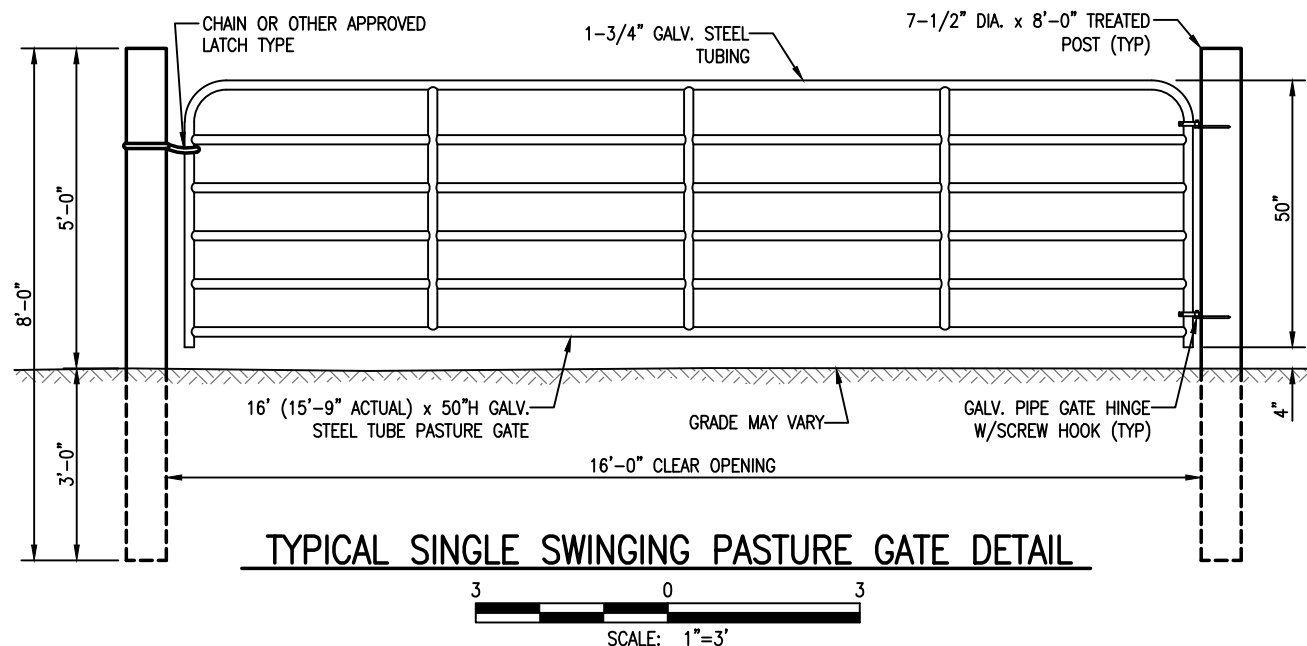


**AGGREGATE ROADWAY:**

1. AGGREGATE SURFACE COURSE SHALL BE PLACED ABOVE THE FINISHED LEVEE PROFILE.
2. CONTRACTOR SHALL COMPACT THE FIRST 12" OF MATERIAL TO 95% DRY WEIGHT DENSITY PRIOR TO PLACING GEOTEXTILE FABRIC.

**VOLUMES**

AGGREGATE SURFACE COURSE: ±56 CUYD  
 GEO. FABRIC: ±335 SQYD



**FENCES:**

1. EXISTING GATES AND BARBED WIRE FENCE SECTIONS SHALL BE REMOVED AND REPLACED AS REQUIRED FOR NEW LEVEE CONSTRUCTION.
2. ALL NEW SWING GATES SHALL BE ERECTED ON THE PROTECTED SIDE BERM, OUTSIDE THE TOE OF THE NEW LEVEE.
3. REFERENCE SHEET 16 OF 16 FOR MORE INFORMATION ON FENCE CONSTRUCTION.

**QUANTITIES**

GATES: 2

APPLICATION BY: **NORTH LAFOURCHE LEVEE DISTRICT**  
 PROPOSED: **HURRICANE PROTECTION LEVEE-REACH "B1" ±6,200 LNFT**

NEAR LOCKPORT, LAFOURCHE PARISH, LOUISIANA

SHEET: 15 OF 16 REVISION:



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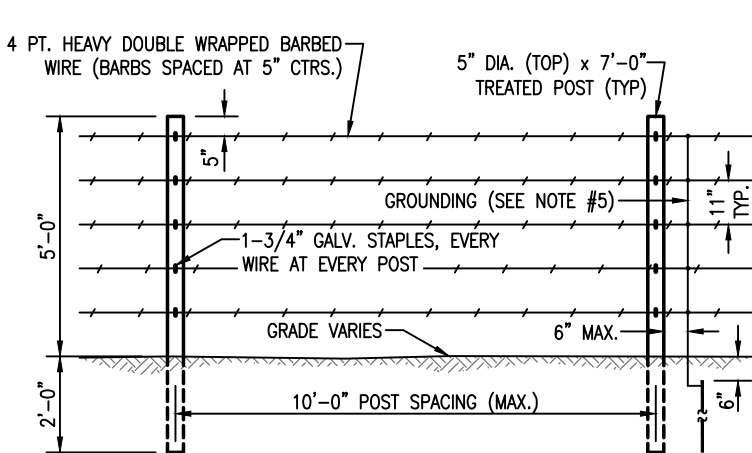
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TYPICAL DETAILS

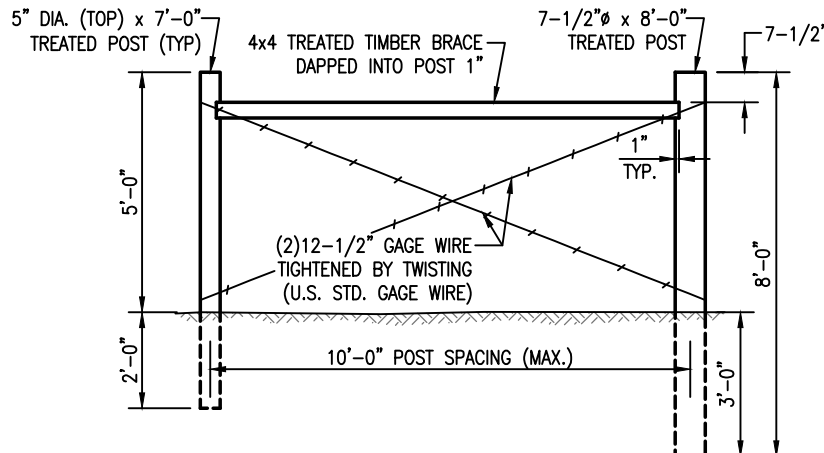
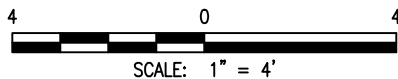
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JUNE 18, 2019

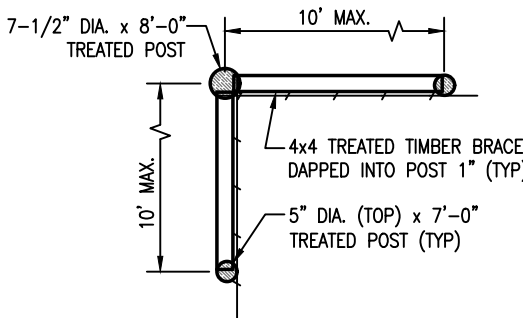
LOCKPORT TO LAROSE HURRICANE PROTECTION PROJECT, REACH B-CLAUDET RETURN TO PARR PUMP STATION  
**REACH "B1" ±6200 LNFT**



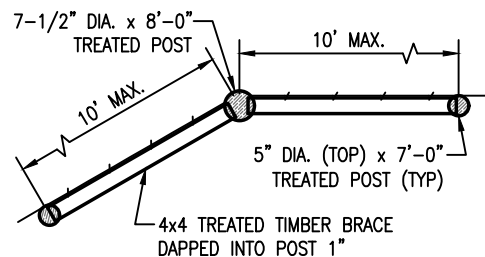
**TYPICAL BARBED WIRE FENCE DETAIL**



**TYPICAL FENCE BRACING-PROFILE VIEW**

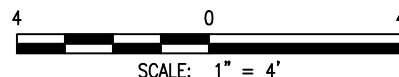


**RIGHT ANGLE**



**OBLIQUE ANGLE**

**TYPICAL FENCE BRACING AT CORNERS**



**NOTES:**

- 1-3/4" GALV. STAPLES TO BE USED IN WOODEN POSTS. GALVANIZED STAPLES TO BE PLACED ON TOP AND BOTTOM STRANDS AND EVERY OTHER WIRE BETWEEN. ALTERNATING ON SUCCESSIVE POSTS.
- METAL LINE POSTS MAY BE USED IN CONJUNCTION WITH WOODEN CORNER GATE AND BRACE POSTS, PROVIDED THAT METAL AND WOODEN POSTS ARE NOT MIXED BETWEEN CORNER POSTS.
- ALL LINE POSTS TO BE 7'-0" (MIN.) LENGTH AND SPACED ON 10' CENTERS (MAX.).
- BRACES TO BE PLACED ON STRAIGHT FENCE SECTIONS NO MORE THAN 500' APART.
- INSTALL NO. 6 SOLID COPPER WIRE WITH 5/8"x8' COPPERWELD ROD AS REQUIRED FOR GROUNDING. ATTACH TO BARBED WIRE STRANDS BY EXOTHERMIC WELD OR MECHANICAL CONNECTOR.

**QUANTITIES**

BARBED WIRE FENCE: ±836 LNFT

APPLICATION BY: **NORTH LAFOURCHE LEVEE DISTRICT**  
 PROPOSED: **HURRICANE PROTECTION LEVEE-REACH "B1" ±6,200 LNFT**

NEAR LOCKPORT, LAFOURCHE PARISH, LOUISIANA

SHEET: 16 OF 16 REVISION:

TYPICAL FENCE DETAILS



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