

JOINT PUBLIC NOTICE

December 9, 2019

United States Army Corps of Engineers
New Orleans District
Operations Division
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) 862-2675
Project Manager
Jamie Crowe
Jamie.M.Crowe@usace.army.mil
Permit Application Number
MVN 2017-00684 CO
408 reference # 2017-0871

(225) 219-3225
Project Manager
Elizabeth Hill

WQC Application Number
WQC 191205-01

Interested parties are hereby notified that a permit application has been received by the New Orleans District of the U.S. Army Corps of Engineers pursuant to:
[X] Section 10 of the Rivers and Harbors Act of March 3, 1899 (30 Stat. 1151; 33 USC 403); and/or [X] Section 404 of the Clean Water Act (86 Stat. 816; 33 USC 1344) and [X] Section 14 of the Rivers and Harbors Act of 1899 (33 U.S.C. Section 408).

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 LRS30:2047 A(3), and provisions of Section 401 of the Clean Water Act (P.L.95-17).

PUMP STATION IN THE MISSISSIPPI RIVER AND SEDIMENT TRAP IN BAYOU LAFOURCHE IN ASCENSION PARISH

NAME OF APPLICANT: Bayou Lafourche Fresh Water District, c/o Delta Coast Consultants, LLC, 4924 Highway 311, Houma, Louisiana 70360.

LOCATION OF WORK: Within the Mississippi River Basin, in the Lower Mississippi River – Baton Rouge hydrologic unit (HUC 08070100), and within the Barataria Basin, in the East-Central Louisiana Hydrologic Unit (HUC 08090301); in the Mississippi River, right descending bank, mile 175.5, and in Bayou Lafourche, approximately 1 mile east of the Mississippi River, in Donaldsonville, Louisiana, in Ascension Parish.

CHARACTER OF WORK: The applicant has requested authorization to clear, grade, excavate, and fill an area to allow for construction of a new 1,000 cfs (expandable to 1,500 cfs) pump station in the Mississippi River to re-introduce freshwater into Bayou Lafourche. The pump station will increase the supply of fresh water entering Bayou Lafourche to benefit coastal marshes, minimize salt water intrusion in the Bayou's

historical flow area, and provided water supply to communities along Bayou Lafourche.

The proposed pump station will consist of a pile supported, concrete structure with six 84-inch steel intake pipes in the Mississippi River and six 72-inch steel discharge pipes extending from the pump station into Bayou Lafourche. A temporary access road will be installed in the batture to allow for construction. Permanent access ramps will be installed on either side of the pump station to allow for access to the pump station and levee. Approximately 1 mile downstream of the pump station, Bayou Lafourche will be widened to create a sediment trap that will be dredged regularly. The dredged material will be transported to the Mississippi River via transport pipe. Project implementation will result in the following: 1.2 acres of impacts to non-vegetated water bottoms in the Mississippi River, 1.9 acres of temporary impacts to batture wetlands, 0.86 acres of permanent impacts to batture wetlands, 5.4 acres of impacts to non-vegetated waterbottoms of Bayou Lafourche, and 0.7 acre of permanent impacts to fringe wetlands along Bayou Lafourche.

Off-site alternatives are limited because the pump station must be proximal to both the Mississippi River. The applicant has avoided wetlands to the maximum extent practicable. Best Management Practices will be implemented during construction to minimize impacts to adjacent wetlands and waterways. As compensation for unavoidable wetland impacts the applicant proposes to purchase wetland credits from a Corps approved mitigation bank located in the watershed.

The comment period for the Department of the Army Permit and the Louisiana Department of Environmental Quality WQC will close **30 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** Letters concerning the Water Quality Certification must reference the applicant's name and the WQC Application number and be mailed to the Louisiana Department of Environmental Quality at the address above. The application for this proposed project is on file with the Louisiana Department of Environmental Quality and may be examined 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 10/404 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.

This request will also be reviewed pursuant to Section 408 and USACE Engineering Circular (EC) 1165-2-220, which provides policy and procedural guidance for processing requests to alter USACE civil works projects.

The decision whether to grant permission for the requested alteration will be based on several factors. The benefits that reasonably may be expected to accrue from the proposal will be balanced against its reasonably foreseeable detriments. Review of the requests for modification will be reviewed by a USACE technical review team considering the following factors:

1) Potential to Impair the Usefulness of the Project. Proposed alterations will be reviewed to determine whether the alteration would limit the ability of the USACE project to function as authorized, or would compromise or change any authorized project conditions, purposes or outputs. If USACE determines that the usefulness of the authorized project would be impaired, the request will be denied.

2) Potential to be Injurious to the Public Interest. Proposed alterations will be reviewed to determine the probable impacts, including cumulative impacts, on the public interest. Factors that may be relevant to the public interest depend upon the type of USACE project being altered and may include, but are not limited to, such things as conservation, economic development, historic properties, cultural resources, environmental impacts, water supply, water quality, flood hazards, floodplains, residual risk, induced damages, navigation, shore erosion or accretion, and recreation. This evaluation will consider information received from the interested parties, including tribes, agencies, and the public. The decision whether to approve an alteration will be determined by the consideration of whether benefits are commensurate with risks. If the potential detriments are found to outweigh the potential benefits, then it may be determined that the proposed alteration is injurious to the public interest.

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

the overall public interest of the proposed activity. Further, all factors that may be relevant to the proposal will be considered, including the potential cumulative effects associated with the proposed project. The Section 408 review will consider the potential impact to the usefulness of the Federal project and whether the proposed alteration would be injurious to the public interest. Policy and legal compliance will also be considered.

The New Orleans District aware of properties listed on the National Register of Historic Places near the proposed work. Cultural Resource Surveys are being conducted and coordinated with the State Archaeologist and State Historic Preservation Officer regarding potential impacts to cultural resources.

Our initial finding is that the proposed work would not affect any species, nor affect any habitat designated as critical to the survival and recovery of such species, listed as endangered by the U.S. Department of Commerce.

Utilizing the Standard Local Operating Procedure for Endangered Species of Louisiana (SLOPES), dated October 22, 2014, between the U.S. Army Corps of Engineers and U.S. Fish and Wildlife Service, Ecological Services Office, the Corps has made the following determination relative to Endangered Species: The proposed activity is not likely to adversely affect the west Indian manatee (*Trichechus manatus*) or pallid sturgeon (*Scaphirhynchus albus*), provided the Standard Manatee Conditions for In-Water Activities and water intake recommendations are included in the authorization. The proposed activity will have no effect on the inflated heelsplitter (*Potamilus inflatus*) or any other known species.

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

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

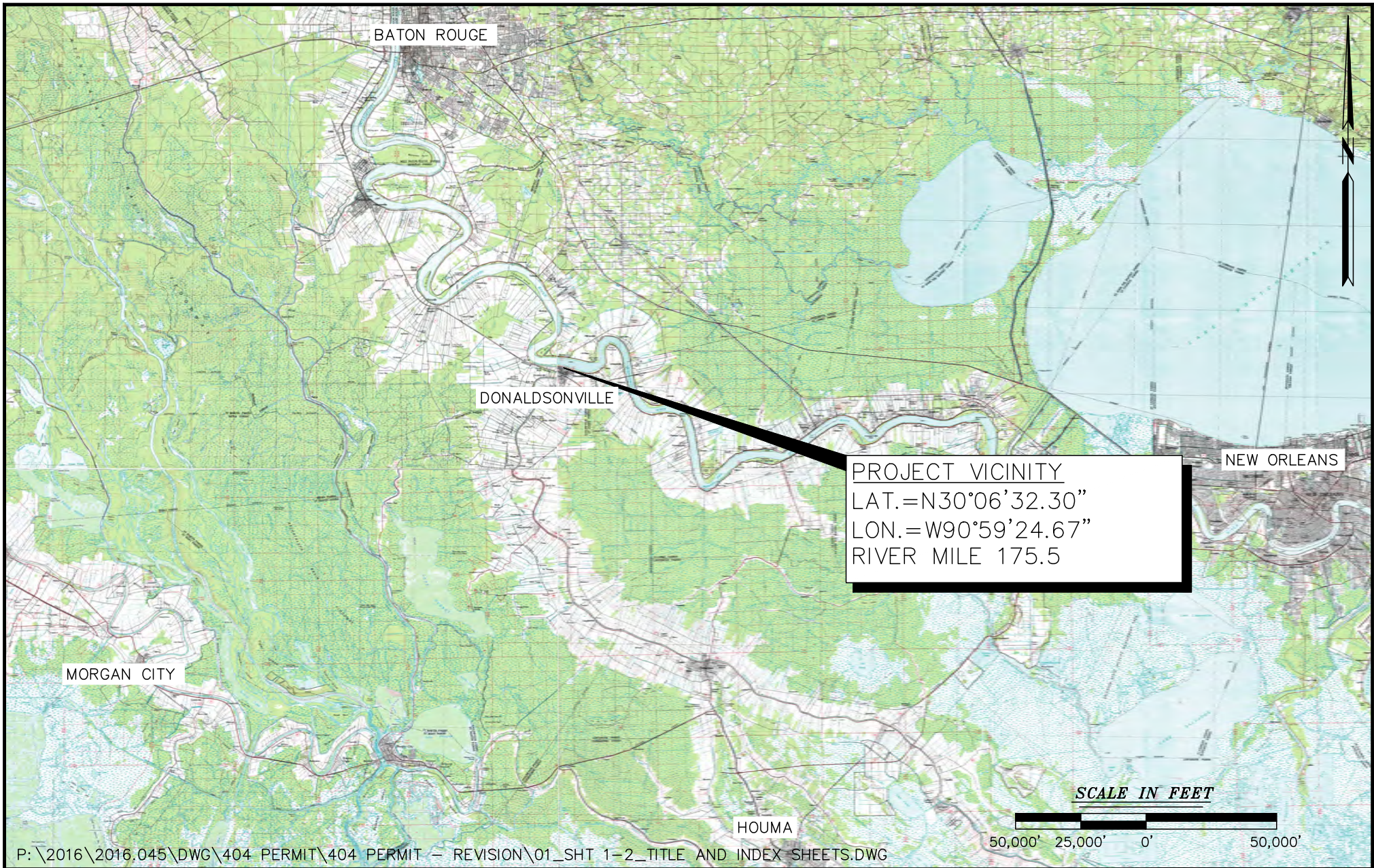
Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for public hearings shall state, with particularity, the reasons for holding a public hearing. You are requested to communicate the information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

whom you deem likely to have interest in the matter.

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.

For: John M. Herman
Chief, Central Evaluation Section
Regulatory Branch

Enclosure



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NO.	REVISION	DATE
1	REVISED PER COMMENTS	1/30/19

VICINITY MAP

MISSISSIPPI RIVER WATER RE-INTRODUCTION INTO BAYOU LAFOURCHE, PUMPING CAPACITY IMPROVEMENT PROJECT
 APPLICANT: BAYOU LAFOURCHE FRESH WATER DISTRICT

DONALDSONVILLE, LOUISIANA ASCENSION PARISH



DELTA COAST CONSULTANTS, LLC
 4924 HWY 311 - HOUMA, LA 70360

PHONE: 985-655-3100 www.deltacoastllc.com


DESIGNED BY	DRAWN BY A.E.J.	CHECKED BY
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SCALE NOTED
DATE 08/01/2018
PROJECT 2016.045
SHEET NO. 1 OF 37

Sheet#	Sheet Title
1	VICINITY MAP
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9-12	PLAN VIEW 1-4
13	W.S.E. AT PROPOSED OUTLET STRUCTURE
14	DISCHARGE PIPING PROFILE
15	ACCESS PLAN VIEW
16	PUMP STATION ACCESS PLAN & PROFILE
17	LEVEE ACCESS PLAN & PROFILE
18	ACCESS BRIDGE PLAN & PROFILE
19	ACCESS BRIDGE SECTIONS
20	INTAKE STRUCTURE
21	INTAKE STRUCTURE PLAN
22	INTAKE STRUCTURE PROFILE
23-24	SECTION-EXCAVATION LAYOUT REACH 1 & 2
25	INTAKE STRUCTURE DETAIL
26	INLET STRUCTURE PLAN AND DETAIL
27	SEEPAGE BARRIER AND BACKFILL DETAILS
28	BACK FILL AND REVETMENT DETAIL
29	DOLPHIN DETAILS AND REVETMENT REPAIR
30	TRASH SCREEN CONNECTION DETAIL
31	REVTMENT REPAIR
32	PUMP STATION FOUNDATION PLAN

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37	CROSS SECTIONS-DISCHARGE BOX GRADING
38	OUTLET STRUCTURE CONSTRUCTION PLAN
39	DEMO PLAN
40	EXISTING MARCHAND BRIDGE PLAN
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FILE: \404 PERMIT - REVISION\CAD FILES\01_SHT 1-2_TITLE AND INDEX SHEETS.DWG

NO.	REVISION	DATE	<p style="text-align: center;">INDEX SHEET</p> <p style="text-align: center;">MISSISSIPPI RIVER WATER RE-INTRODUCTION INTO BAYOU LAFOURCHE, PUMPING CAPACITY IMPROVEMENT PROJECT APPLICANT: BAYOU LAFOURCHE FRESH WATER DISTRICT</p>		 <p style="text-align: center;">DELTA COAST CONSULTANTS, LLC 4924 HWY 311 - HOUMA, LA 70360</p>	SCALE
						N.T.S.
1	REVISED PER COMMENTS	2/6/19	<p style="text-align: center;">DONALDSONVILLE , LOUISIANA</p>		<p style="text-align: center;">PHONE: 985-655-3100</p>	DATE
2	REVISED PER COMMENTS	6/3/19				08/01/2018
3	ADDED SEDIMENT PIPELINE DRAWINGS	7/1/19				PROJECT
					<p style="text-align: center;">www.deltacoastllc.com</p>	
			<p style="text-align: center;">ASCENSION PARISH</p>		DESIGNED BY	SHEET NO.
					DRAWN BY	2 OF 75
					CHECKED BY	
					A.E.J	

Excavation/Fill Quantities

Area	Location	Area (ft2)	Excavation(CY)	Backfill (CY)	Structures/ Nature of Work	Impacts (Acres)
A1	Miss. River Intake Pipes-Reach 2	7,456	0		revetment repaired according to USACE drawing file # H-18-45204 with 3' thick 18" riprap	0.17 acres Other Waters Impacts - Temporary/Will be Restored to Pre-existing Conditions
A2	Miss. River Batture Intake Pipes-Reach 2	13,770	6,000		Filter stone 567, #57 stone 4,316, 3' thick 18" riprap 1,530	0.31 acres Other Waters Impacts - Temporary/Will be Restored to Pre-existing Conditions
A3	Miss. River Batture Intake Pipes-Reach 1	15,588	17,000		Bentonite, Sand, Aquablock 13,500; Clay 6,800; Aggregate 3,101	0.36 acres Wetlands Impacts Temporary/Will be Restored to Pre-existing Conditions
A4	Miss. River Batture Pump Station-wet well	10,108	26,800		Aggregate 240; Concrete 12,550	0.23 acres Wetlands Impacts - Permanent
A5	Pump Station Auxiliary Structure	5,750	0	0	21 concrete piles -24" diameter to elev -9 with 41'x82' structure sitting on top of piles	0.13 acres Wetlands Impacts - Permanent

NO.	REVISION	DATE
1	REVISED PER COMMENTS	2/6/19
2	REVISED PER COMMENTS	6/3/19
3	ADDED SEDIMENT PIPELINE DRAWINGS	7/1/19

EXCAVATION SUMMARY TABLE	
MISSISSIPPI RIVER WATER RE-INTRODUCTION INTO BAYOU LAFOURCHE, PUMPING CAPACITY IMPROVEMENT PROJECT APPLICANT: BAYOU LAFOURCHE FRESH WATER DISTRICT	
DONALDSONVILLE, LOUISIANA	ASCENSION PARISH

 DELTA COAST CONSULTANTS, LLC 4924 HWY 311 - HOUMA, LA 70360		SCALE SHOWN DATE 08/01/2018 PROJECT 2016.045
PHONE: 985-655-3100 www.deltacoastllc.com		SHEET NO. 5 OF 75
DESIGNED BY	DRAWN BY TAA	CHECKED BY

Area	Location	Area (ft2)	Excavation(CY)	Backfill (CY)	Structures/ Nature of Work	Impacts (Acres)
A6	Vehicle Bridge	4,775	0	0	215'Lx22'W elevated bridge with 15 supports-36" steel pipe piles with concrete piers, columns, and caps	0.11 acres Wetlands Impacts Temporary/Will be Restored to Pre-existing Conditions
A7	Pipe Bridge in wetlands	13,035	0	0	Elevated discharge pipes(100 lft) supported by 18 total piles with concrete caps- 36" steel pipe piles.	0.30 acres Wetlands Impacts Temporary/Will be Restored to Pre-existing Conditions
A8	Dicharge Pipes not in wetlands-over levee and protected side	45,885	47,600	aggregate 2,408, sand 12,908, asphalt 45	6- 72" discharge pipes buried underground-790 lft, elevated pipe bridge over levee -170 lft	No impacts
A9	Outfall Structure	15,584	4,300	Aggregate/Riprap 1,600; Concrete 1,050	57'x57' concrete structure to slow water velocity coming out of discharge pipes into Bayou Lafourche	0.05 Acres Wetlands Impacts -Permanent
A10	Construction Access in Miss. River Batture	61,420	0	0	Crane access to construct pump station	1.41 Acres wetland impacts Temporary/Will be Restored to Pre-existing Conditions
A11	Intake pipes-Riprap	44,431	0	18" riprap 5000	install riprap on top of existing revetment	1.02 acres other water impacts Temporary/Will be Restored to Pre-existing Conditions

NO.	REVISION	DATE
1	REVISED PER COMMENTS	2/6/19
2	REVISED PER COMMENTS	6/3/19
3	ADDED SEDIMENT PIPELINE DRAWINGS	7/1/19

EXCAVATION SUMMARY TABLE	
MISSISSIPPI RIVER WATER RE-INTRODUCTION INTO BAYOU LAFOURCHE, PUMPING CAPACITY IMPROVEMENT PROJECT APPLICANT: BAYOU LAFOURCHE FRESH WATER DISTRICT	
DONALDSONVILLE, LOUISIANA	ASCENSION PARISH




DELTA COAST CONSULTANTS, LLC
 4924 HWY 311 - HOUMA, LA 70360
 PHONE: 985-655-3100 www.deltacoastllc.com

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DATE 08/01/2018
PROJECT 2016.045
SHEET NO. 6 OF 75

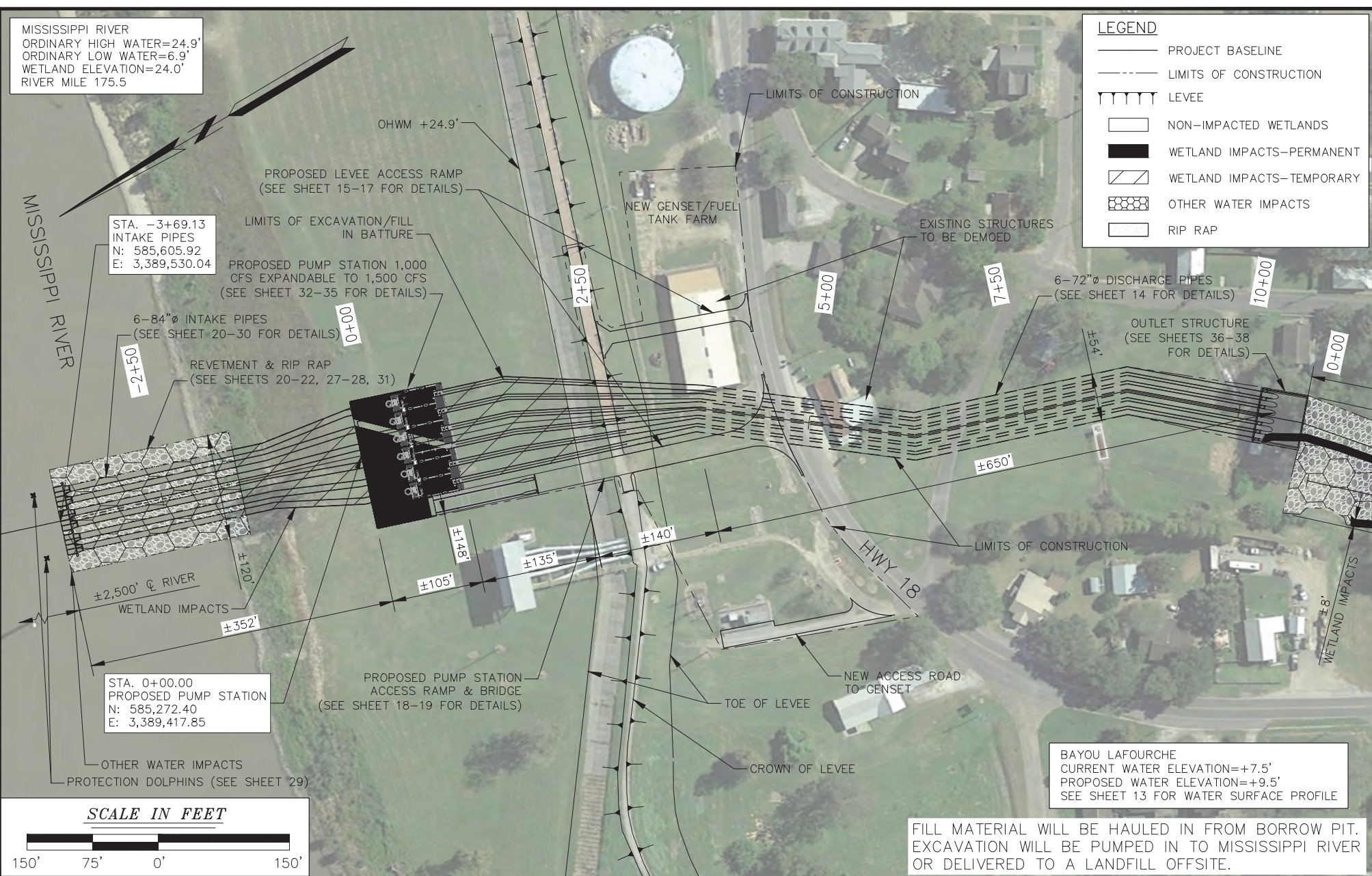
Area	Location	Area (ft2)	Excavation(CY)	Backfill (CY)	Structures/ Nature of Work	Impacts (Acres)
A12	Marchand Bridge Sheet Piles	110	3623	Select Soil 150	Dredging of sheet pile and bridge area. 123 lft of Sheet piles installed at Marchand Bridge to prevent erosion - HZ/AZ Combination Piles driven to tip elevation of -58	0.15 Acres Wetland Impacts-Permanent
A13	Sedimentation Basin Above +4	611,014	112,882	N/A	Mechanical Dredging	0.49 Acres Wetlands Impacts-Permanent
A14	Sedimentation Basin Below +4	611,014	310,451	N/A	Hydraulic Dredging	5.41 acres Other Waters Impacts
A15	Heavy Equipment Access Road for Construction	21,700	0	0	access for excavators, dozers, cranes, etc	0.5 acres wetland impacts Temporary/Will be Restored to Pre-existing Conditions

NO.	REVISION	DATE	EXCAVATION SUMMARY TABLE		 DELTA COAST CONSULTANTS, LLC 4924 HWY 311 - HOUMA, LA 70360 PHONE: 985-655-3100 www.deltacoastllc.com		SCALE SHOWN
1	REVISED PER COMMENTS	2/6/19	MISSISSIPPI RIVER WATER RE-INTRODUCTION INTO BAYOU LAFOURCHE, PUMPING CAPACITY IMPROVEMENT PROJECT APPLICANT: BAYOU LAFOURCHE FRESH WATER DISTRICT		DESIGNED BY _____ DRAWN BY TAA CHECKED BY _____		DATE
2	REVISED PER COMMENTS	6/3/19					08/01/2018
3	ADDED SEDIMENT PIPELINE DRAWINGS	7/1/19					PROJECT
			DONALDSONVILLE, LOUISIANA		ASCENSION PARISH		2016.045
							SHEET NO.
							7 OF 75

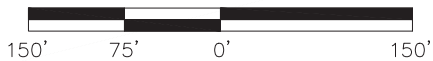
MISSISSIPPI RIVER
 ORDINARY HIGH WATER=24.9'
 ORDINARY LOW WATER=6.9'
 WETLAND ELEVATION=24.0'
 RIVER MILE 175.5

LEGEND

- PROJECT BASELINE
- LIMITS OF CONSTRUCTION
- LEVEE
- NON-IMPACTED WETLANDS
- WETLAND IMPACTS-PERMANENT
- WETLAND IMPACTS-TEMPORARY
- OTHER WATER IMPACTS
- RIP RAP



SCALE IN FEET



NO.	REVISION	DATE
1	REVISED PER COMMENTS	2/6/19
2	REVISED PER COMMENTS	6/3/19
3	ADDED SEDIMENT PIPELINE DRAWINGS	7/1/19

PLAN VIEW 1

MISSISSIPPI RIVER WATER RE-INTRODUCTION INTO BAYOU LAFOURCHE, PUMPING CAPACITY IMPROVEMENT PROJECT
 APPLICANT: BAYOU LAFOURCHE FRESH WATER DISTRICT

DONALDSONVILLE, LOUISIANA ASCENSION PARISH



**DELTA COAST
CONSULTANTS, LLC**
 4924 HWY 311 - HOUMA, LA 70360

PHONE: 985-655-3100 www.deltacoastllc.com

SCALE SHOWN

DATE: 8/01/18

PROJECT: 2016.045

SHEET NO.: 9 OF 75

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MISSISSIPPI RIVER
 ORDINARY HIGH WATER=24.9'
 ORDINARY LOW WATER=6.9'
 WETLAND ELEVATION=24.0'
 RIVER MILE 175.5

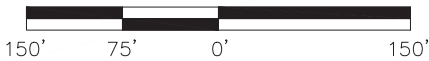
BAYOU LAFOURCHE
 CURRENT WATER ELEVATION=+7.5'
 PROPOSED WATER ELEVATION=+9.5'
 SEE SHEET 13 FOR WATER SURFACE PROFILE

STA. 12+00.00
 END OF PUMP STATION
 PROJECT BASELINE
 N: 584,249.15
 E: 3,388,801.79

STA. 1+33.95
 NO CONSTRUCTION START
 N: 584,261.37
 E: 3,388,747.33

NO CONSTRUCTION TO TAKE PLACE FROM
 STA. 1+33.95 TO STA. 20+40.74

SCALE IN FEET



LEGEND

- PROJECT BASELINE
- LIMITS OF CONSTRUCTION
- LEVEE
- NON-IMPACTED WETLANDS
- WETLAND IMPACTS—PERMANENT
- WETLAND IMPACTS—TEMPORARY
- OTHER WATER IMPACTS
- RIP RAP

FILL MATERIAL WILL BE HAULED IN FROM BORROW PIT.
 EXCAVATION WILL BE PUMPED IN TO MISSISSIPPI RIVER
 OR DELIVERED TO A LANDFILL OFFSITE.



NO.	REVISION	DATE
1	REVISED PER COMMENTS	2/6/19
2	REVISED PER COMMENTS	6/3/19
3	ADDED SEDIMENT PIPELINE DRAWINGS	7/1/19

PLAN VIEW 2

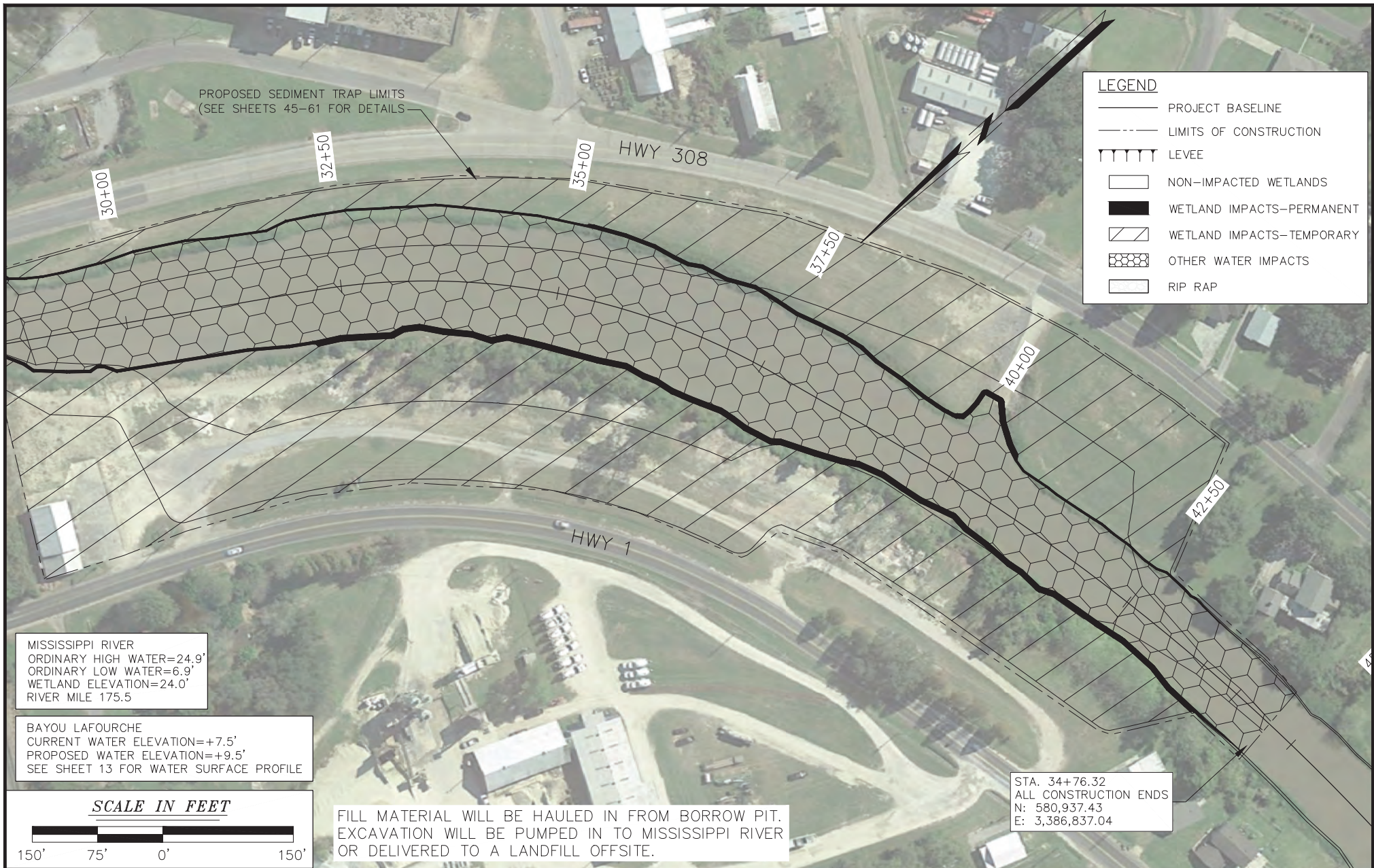
MISSISSIPPI RIVER WATER RE-INTRODUCTION INTO BAYOU
 LAFOURCHE, PUMPING CAPACITY IMPROVEMENT PROJECT
 APPLICANT: BAYOU LAFOURCHE FRESH WATER DISTRICT

DONALDSONVILLE, LOUISIANA ASCENSION PARISH

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			PROJECT
			2016.045
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			10 OF 75

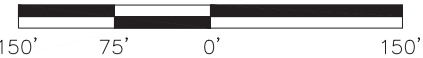


LEGEND	
	PROJECT BASELINE
	LIMITS OF CONSTRUCTION
	LEVEE
	NON-IMPACTED WETLANDS
	WETLAND IMPACTS-PERMANENT
	WETLAND IMPACTS-TEMPORARY
	OTHER WATER IMPACTS
	RIP RAP

MISSISSIPPI RIVER
 ORDINARY HIGH WATER=24.9'
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BAYOU LAFOURCHE
 CURRENT WATER ELEVATION=+7.5'
 PROPOSED WATER ELEVATION=+9.5'
 SEE SHEET 13 FOR WATER SURFACE PROFILE

SCALE IN FEET



FILL MATERIAL WILL BE HAULED IN FROM BORROW PIT.
 EXCAVATION WILL BE PUMPED IN TO MISSISSIPPI RIVER
 OR DELIVERED TO A LANDFILL OFFSITE.

STA. 34+76.32
 ALL CONSTRUCTION ENDS
 N: 580,937.43
 E: 3,386,837.04

NO.	REVISION	DATE
1	REVISED PER COMMENTS	2/6/19
2	REVISED PER COMMENTS	6/3/19
3	ADDED SEDIMENT PIPELINE DRAWINGS	7/1/19

PLAN VIEW 4

MISSISSIPPI RIVER WATER RE-INTRODUCTION INTO BAYOU LAFOURCHE, PUMPING CAPACITY IMPROVEMENT PROJECT
 APPLICANT: BAYOU LAFOURCHE FRESH WATER DISTRICT

DONALDSONVILLE, LOUISIANA ASCENSION PARISH



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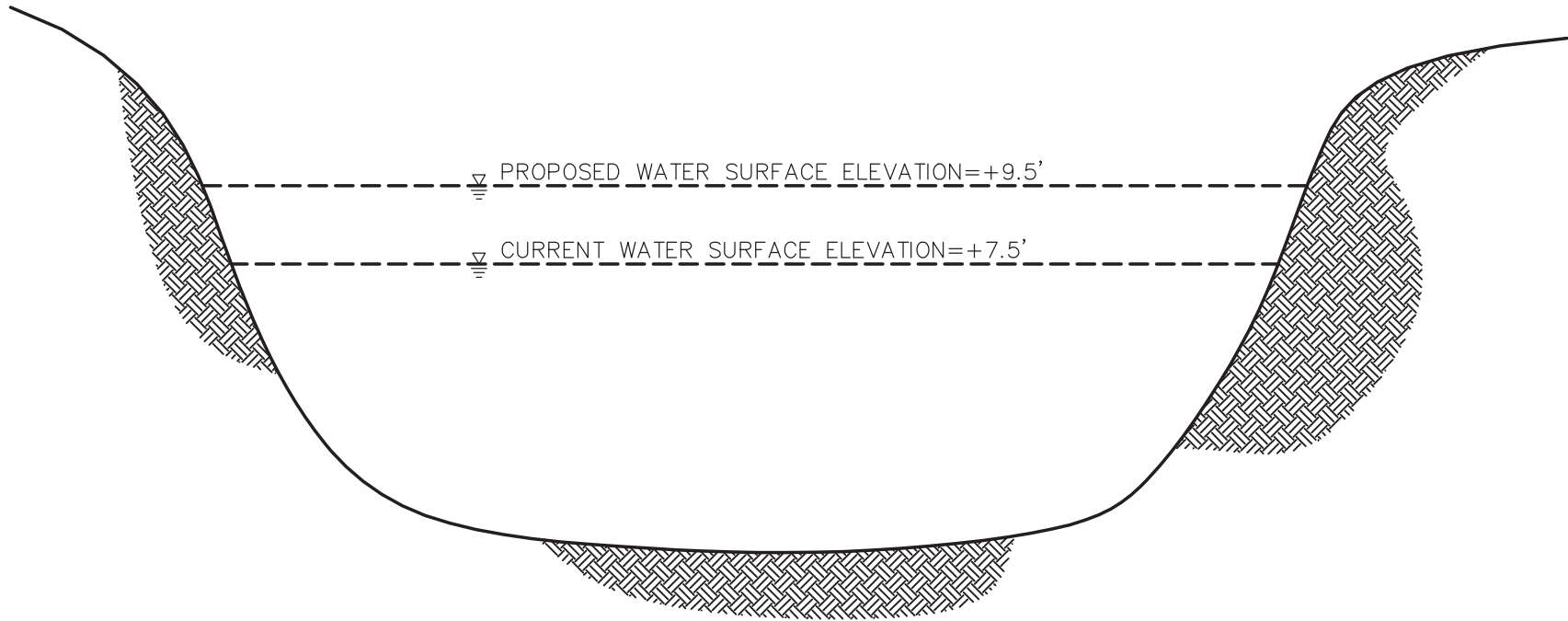
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SHEET NO.

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A SECTION STA. 2+50
10 SCALE: NTS

LEGEND:
EXISTING EARTH

FILE: P:\2016\2016.045\DWG\404 PERMIT\2019-07-01_REV 03\03_SHT-13_ WATER SURFACE ELEVATION AT DISCHARGE BOX.DWG

**WATER SURFACE ELEVATION DETAIL AT
PROPOSED DISCHARGE BOX**

MISSISSIPPI RIVER WATER RE-INTRODUCTION INTO BAYOU
LAFOURCHE, PUMPING CAPACITY IMPROVEMENT PROJECT
APPLICANT: BAYOU LAFOURCHE FRESH WATER DISTRICT

DONALDSONVILLE, LOUISIANA

ASCENSION PARISH



**DELTA COAST
CONSULTANTS, LLC**

4924 HWY 311 - HOUMA, LA 70360

PHONE: 985-655-3100

www.deltacoastllc.com

DESIGNED BY

DRAWN BY

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CHECKED BY

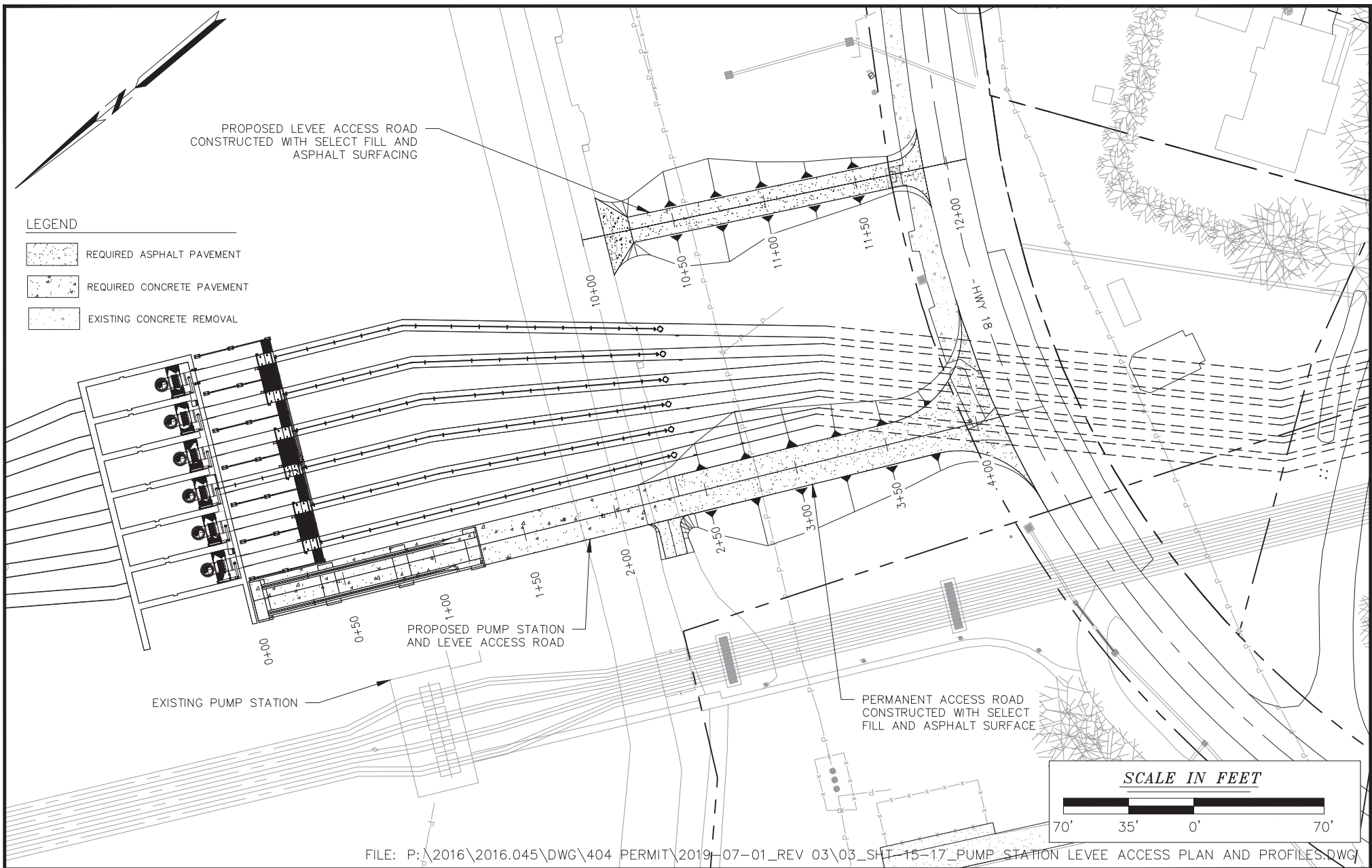
SCALE
SHOWN

DATE
1/30/19

PROJECT
2016.045

SHEET NO.
13 OF 67

NO.	REVISION	DATE
1	ADDED SHEET PER COMMENTS	01/30/19
2	REVISED PER COMMENTS	6/3/19
3	ADDED SEDIMENT PIPELINE DRAWINGS	7/1/19



NO.	REVISION	DATE
1	REVISED PER COMMENTS	2/6/19
2	REVISED PER COMMENTS	6/3/19
3	ADDED SEDIMENT PIPELINE DRAWINGS	7/1/19

ACCESS PLAN VIEW

MISSISSIPPI RIVER WATER RE-INTRODUCTION INTO BAYOU
LAFOURCHE, PUMPING CAPACITY IMPROVEMENT PROJECT
APPLICANT: BAYOU LAFOURCHE FRESH WATER DISTRICT

DONALDSONVILLE, LOUISIANA ASCENSION PARISH



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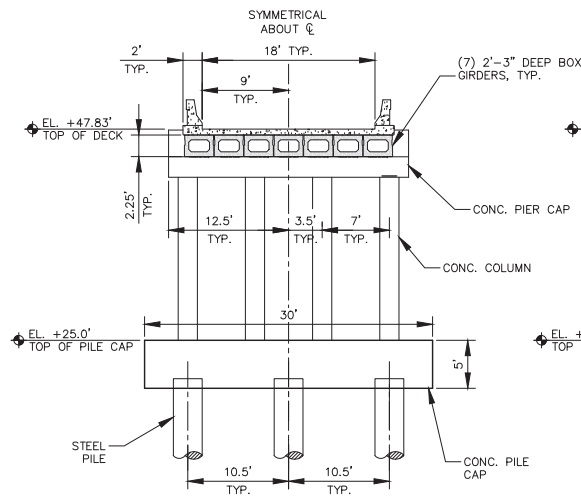
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DATE
08/01/2018

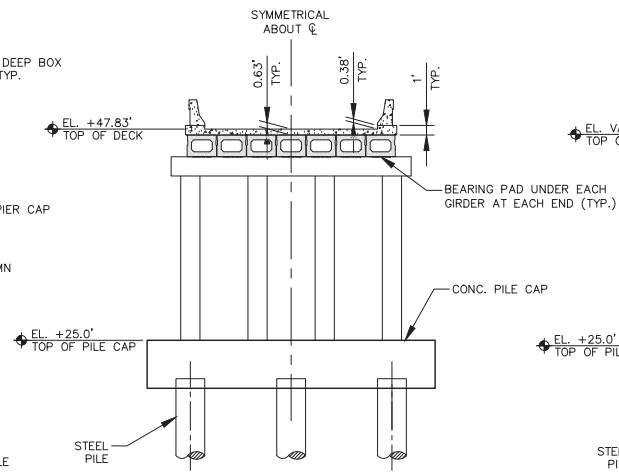
PROJECT
2016.045

SHEET NO.
15 OF 75

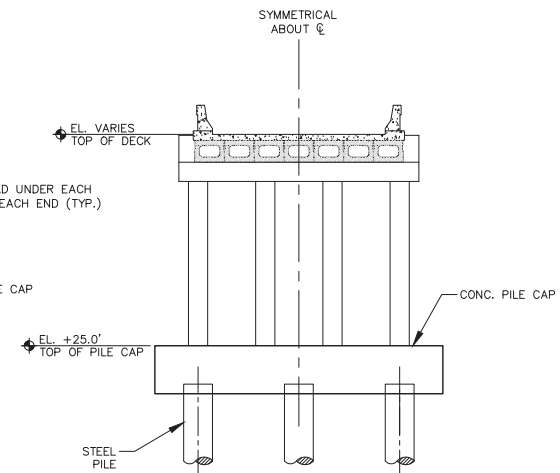
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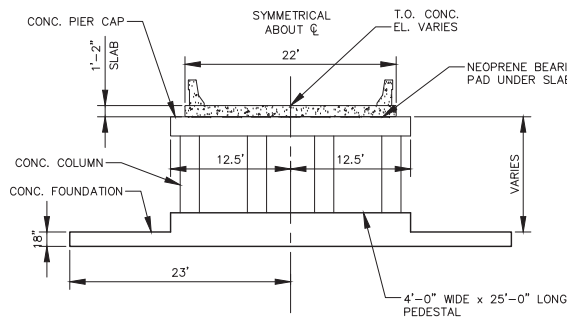
B ELEVATION - BENT 1
SCALE: 1"=20'



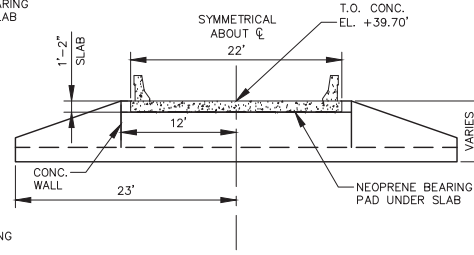
C ELEVATION - BENT 2
SCALE: 1"=20' (BENTS 3 & 4 SIMILAR)



D ELEVATION - BENT 5
SCALE: 1"=20'



E ELEVATION - BENT 6
SCALE: 1"=20'



F ELEVATION - ABUTMENT
SCALE: 1"=20'

SCALE IN FEET



NO.	REVISION	DATE
1	NO CHANGES TO SHEET 12	2/1/19
2	REVISED PER COMMENTS	6/3/19
3	ADDED SEDIMENT PIPELINE DRAWINGS	7/1/19

ACCESS BRIDGE SECTIONS

MISSISSIPPI RIVER WATER RE-INTRODUCTION INTO BAYOU LAFOURCHE, PUMPING CAPACITY IMPROVEMENT PROJECT
 APPLICANT: BAYOU LAFOURCHE FRESH WATER DISTRICT

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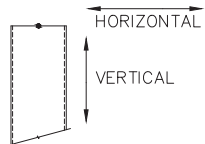
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			DATE 08/01/2018
			PROJECT 2016.045
			SHEET NO. 19 OF 75

INLET STRUCTURE NOTES:

1. INLET STRUCTURE NOTES SUPPLEMENT THE STRUCTURAL GENERAL NOTES PROVIDED ON S-001 AND S-002.
2. REFER TO C-102 FOR THE DEMOLITION PLAN.
3. SHEET PILE SECTIONS AND TIP ELEVATIONS FOR THE COFFERDAM ARE PROVIDED FOR REFERENCE ONLY. FINAL DESIGN OF THE COFFERDAM SHALL BE PERFORMED BY THE CONTRACTOR PER THE SPECIFICATIONS.
4. LOADS:
 - A. HYDROSTATIC: 63 PCF
 - B. GRANULAR FILL: 115 PCF
 - C. ALLOWABLE EQUIPMENT SURCHARGE ON BACKFILL: 600 PSF
 - D. SHIP IMPACT UNUSUAL: 160 KIPS PER HSDRRSDG
 - SHIP IMPACT EXTREME: 300KIPS PER HSDRRSDG
5. MATERIALS:
 - A. SHEET PILE: ASTM A572, GRADE 50 (FY = 50 KSI)
 - B. RIP RAP: LADOTD CLASS 55
 - C. TRASH SCREEN 6065 TS, T6 ALUMINUM
6. MATERIAL WEIGHTS:
 - A. WATER, FRESH = 63 PCF
 - B. TREMIE CONCRETE = 150 PCF
 - C. STEEL = 490 PCF
7. HYDRAULIC STRUCTURES, 2016
 - A. EM 1110-2-2104, STRENGTH DESIGN FOR REINFORCED CONCRETE
 - B. ACI-318-14, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
 - C. AISC 360-10, SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS
 - D. AISC 9TH ED., SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS
 - E. AWS D1.1:2015, STRUCTURAL WELDING CODE -- STEEL
 - F. LADOTD STANDARD SPECIFICATIONS, 2006
8. COATINGS AND SURFACE TREATMENT:
 - A. SHEET PILE: 09 97 13.00 40 COATING SYSTEM NO. 2
 - B. PILES: 09 97 13.00 40 SYSTEM COATING SYSTEM NO. 2
 - C. INTAKE PIPES: COAL TAR ENAMEL COATING PER AWWA C203
 - D. STEEL FABRICATIONS: 09 97 13.00 40 COATING SYSTEM NO. 2

PILE INSTALLATION:


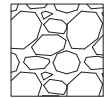

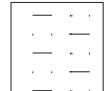

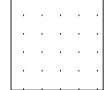

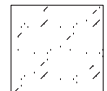
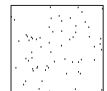

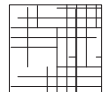


TOLERANCES:
FINAL SETTING TOLERANCES FOR THE INTAKE PIPE PILES ARE AS FOLLOWS:
VERTICAL AXIS: + - 1/2"
HORIZONTAL AXIS: + - 2"



CONSTRUCTION STAGING FOR INTAKE PIPES:

1. DREDGE REACH 2 IN THE RIVER 20'-0" PAST STATION 1+60 AT THE SHEET PILE CUTOFF WALL.
2. INSTALL SHEET PILE CUTOFF WALL PANELS AT STA -1+60 AND SEAL SHEET PILE JOINTS WITH WADIT, OR APPROVED EQUAL.
3. INSTALL REACH 2 TEMP SHEET PILING AND EXCAVATE REACH 2.
4. INSTALL REACH 2 PIPE SUPPORT PILES, AND INTAKE SUPPORT PILES AT CONTRACTOR OPTION, INSTALL LARGER PILE CASING AROUND 24" Ø PILE FOR DRIVING/INSTALLATION.
5. INSTALL REACH 2 PIPE SUPPORT FRAMES AND PIPE SADDLES.
6. INSTALL REACH 2 INTAKE SUPPORT FRAMES
7. INSTALL REACH 2 INTAKE PIPES, AND INLET SCREEN HOODS ON THE SUPPORT PILES.
8. EXCAVATE REACH 1 SOILS AND INSTALL REACH 1 STRUT SUPPORT PILES AND E/W SHEET PILING TIED BACK TO THE WET WELL SIMULTANEOUSLY INSTALL THE SHEET PILE WALL BRACING DURING EXCAVATION.
9. PLACE SAND CEMENT BENTONITE GROUT LAYER IN REACH 1.
10. CUT OFF AND SALVAGE SOUTH COFFERDAM SHEET PILING ABOVE THE PUMP STATION BASE SLAB, PER DETAIL.
11. CUT HOLES IN SHEET PILE CUTOFF WALL AT STA -1+60, PER DETAIL.
12. INSTALL 10'-0" INFILL INTAKE PIPE SUBS LOOSELY IN HOLES IN SHEET PILE WALL, AND CONNECT PIPE STUBS TO REACH 2 INTAKE PIPES.
13. SEAL JOINT AROUND PIPE STUBS AND SHEET PILE WALL WITH PERMANENT TREMIE DONUTS PER DETAIL.
14. PLACE TIMBER CRIBBING UNDER INTAKE PIPES TO TEMPORARILY SUPPORT THEM AT THE SPECIFIED ELEVATION, TIMBER CRIBBING IS PER THE CONTRACTOR.
15. INSTALL REACH 1 INTAKE PIPES.
16. CONNECT REACH 1 INTAKE PIPES TO THE PIPE STUBOUTS AT THE PUMP STATION.
17. CONNECT REACH 1 INTAKE PIPES TO THE REACH 2 PIPES AT THE SHEET PILE CUTOFF WALL.
18. PLACE SAND CEMENT GROUT TO EL. -7.50.
19. PLACE SAND CEMENT GROUT TO EL. 2.00.
20. CUT OFF AND REMOVE TOP OF NORTH SHEET PILE CUTOFF WALL.
21. INSTALL ENGINEERED CONCRETE REVETMENT MATTRESSES AND STONE BACKFILL AROUND THE PIPES IN REACH 2.

LEGEND

	STEEL		RIP RAP
	CONCRETE		SAND CEMENT BENTONITE GROUT
	TREMIE CONCRETE		SAND CEMENT GROUT
	EXISTING GRADE		GROUT
— X — X —	FENCE		SAND
	COMPACTED CLAY		FILTER STONE
	CONCRETE REVEMENT BLOCKS		
	GRAVEL STONE BACKFILL		

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NO.	REVISION	DATE	INTAKE STRUCTURE		SCALE	
1	REVISED PER COMMENTS	2/6/19	MISSISSIPPI RIVER WATER RE-INTRODUCTION INTO BAYOU LAFOURCHE, PUMPING CAPACITY IMPROVEMENT PROJECT APPLICANT: BAYOU LAFOURCHE FRESH WATER DISTRICT		N.T.S.	
2	REVISED PER COMMENTS	6/3/19			DATE	08/01/2018
3	ADDED SEDIMENT PIPELINE DRAWINGS	7/1/19			PROJECT	2016.045
			DONALDSONVILLE, LOUISIANA	ASCENSION PARISH	SHEET NO.	
					20 OF 75	



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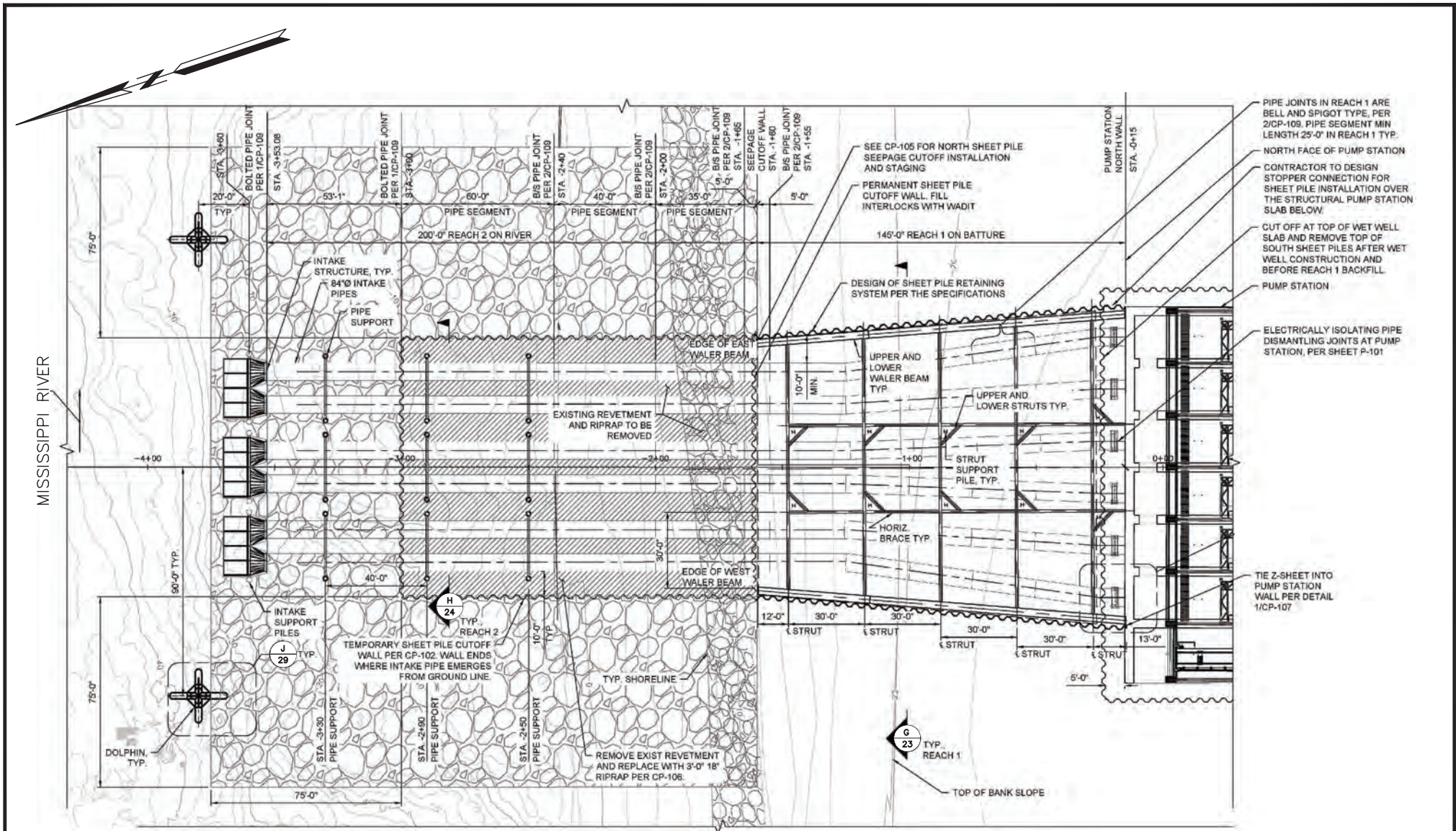
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SHEET NO.

20 OF 75



INTAKE STRUCTURE PLAN
SCALE: NTS

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NO.	REVISION	DATE
1	REVISED PER COMMENTS	1/30/19
2	REVISED PER COMMENTS	6/3/19
3	ADDED SEDIMENT PIPELINE DRAWINGS	7/1/19

INTAKE STRUCTURE PLAN

MISSISSIPPI RIVER WATER RE-INTRODUCTION INTO BAYOU LAFOURCHE, PUMPING CAPACITY IMPROVEMENT PROJECT
APPLICANT: BAYOU LAFOURCHE FRESH WATER DISTRICT

DONALDSONVILLE, LOUISIANA ASCENSION PARISH



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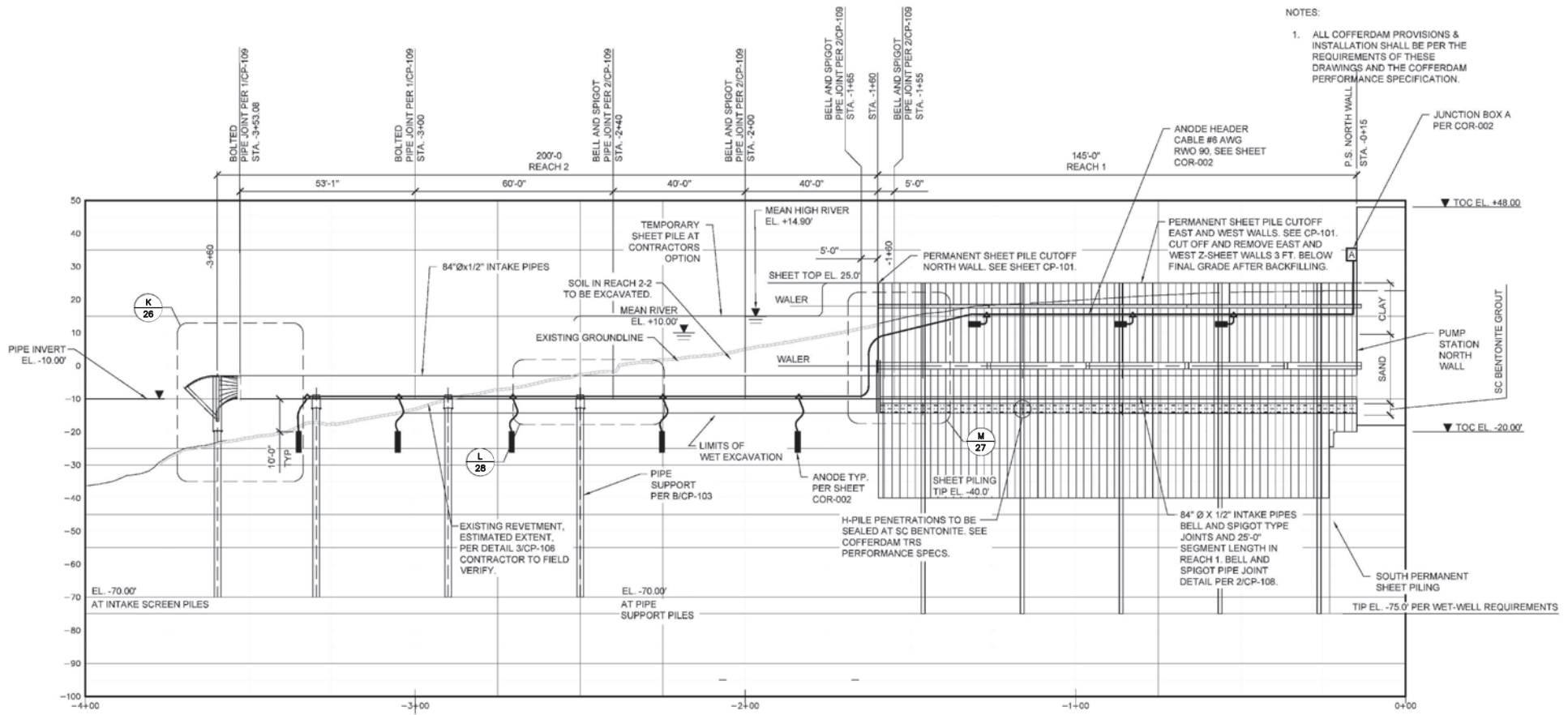
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DATE: 08/01/2018

PROJECT: 2016.045

SHEET NO.: 21 OF 75

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INTAKE STRUCTURE PROFILE (LOOKING EAST)
SCALE: NTS

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INTAKE STRUCTURE PROFILE

MISSISSIPPI RIVER WATER RE-INTRODUCTION INTO BAYOU LAFOURCHE, PUMPING CAPACITY IMPROVEMENT PROJECT
APPLICANT: BAYOU LAFOURCHE FRESH WATER DISTRICT

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			DATE 08/01/2018
			PROJECT 2016.045
			SHEET NO. 22 OF 75

PERMANANT SHEET PILING TO CONFINER WET EXCAVATION PER CP-101

COMPACTED CLAY PER CP-105

REACH 1 TEMPORARY SHEET PILE WALL BRACING PER CP-101

PERMANANT SHEET PILING TO CONFINER WET EXCAVATION PER CP-101

GROUND EL. VARIES +23.00' TO +15.00'

BATTURE

GROUND WATER EL. VARIES

SW EL. VARIES

TOP OF SAND EL. +10.00'

(6) 84"Ø PIPES

VARIES

I.E. EL. -10.00'

BASE OF EXCAVATION EL. -15.00'

SAND CEMENT GROUT LAYERS PER CP-105

PLACE PIPES ON TIMBER CRIBBING PER CONTRACTOR

SAND-CEMENT-BENTONTE GROUT LAYER PER CP-105

UNIFORMLY GRADED SAND, SEE NOTE 2.

SHEET TIP EL. -40.00' MIN.



SECTION - EXCAVATION LAYOUT REACH 1

SCALE: NTS

FILE: P:\2016\2016.045\DWG\404 PERMIT\2019-07-01_REV 03\03_SHT-21-31_INTAKE STRUCTURE PLAN AND PROFILE.DWG

NO.	REVISION	DATE
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SECTION-EXCAVATION LAYOUT REACH 1

MISSISSIPPI RIVER WATER RE-INTRODUCTION INTO BAYOU LAFOURCHE, PUMPING CAPACITY IMPROVEMENT PROJECT
 APPLICANT: BAYOU LAFOURCHE FRESH WATER DISTRICT

DONALDSONVILLE, LOUISIANA

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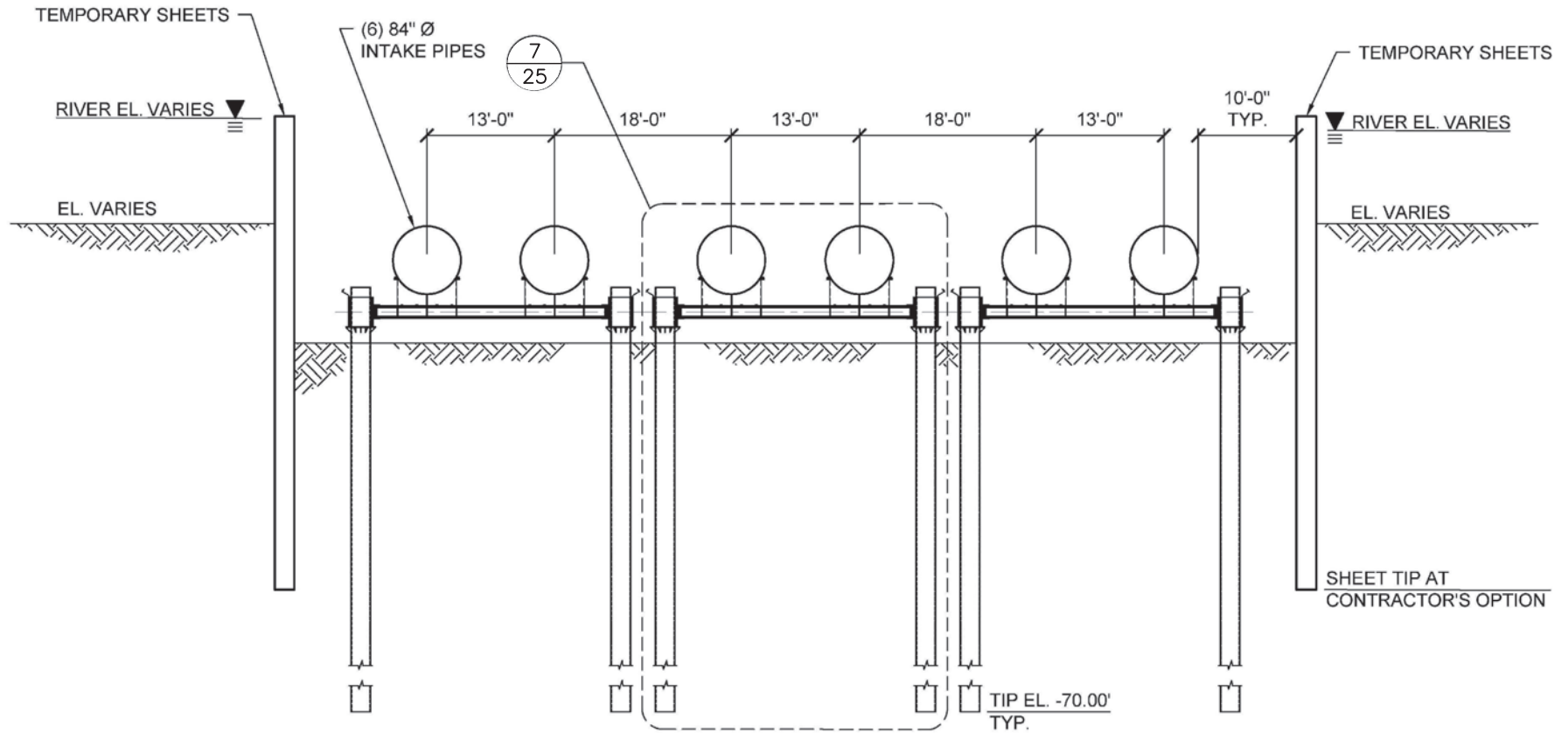
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DATE 08/01/2018

PROJECT 2016.045

SHEET NO. 23 OF 75



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SECTION - EXCAVATION LAYOUT REACH 2

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NO.	REVISION	DATE
1	REVISED PER COMMENTS	1/30/19
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SECTION-EXCAVATION LAYOUT REACH 2

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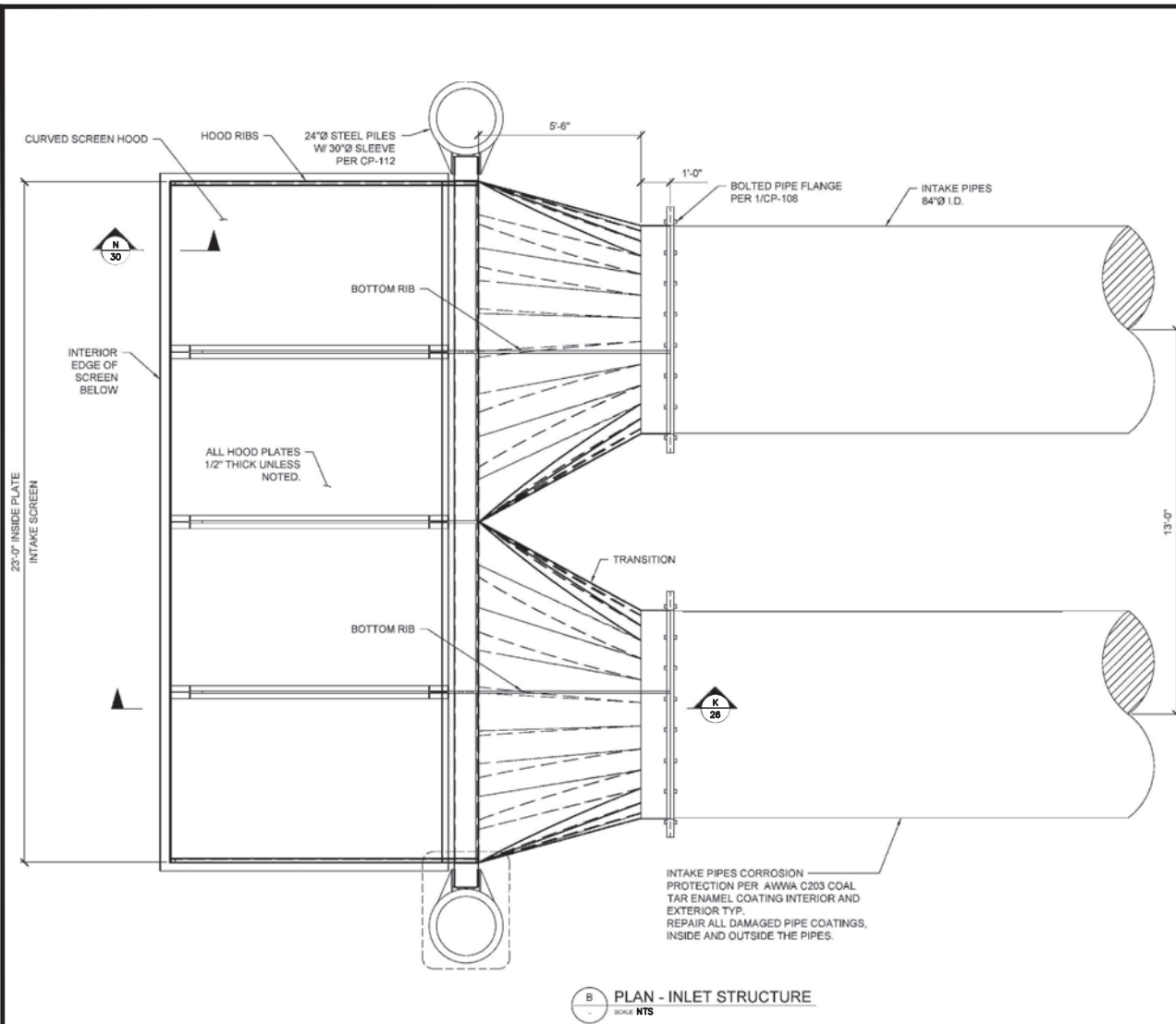
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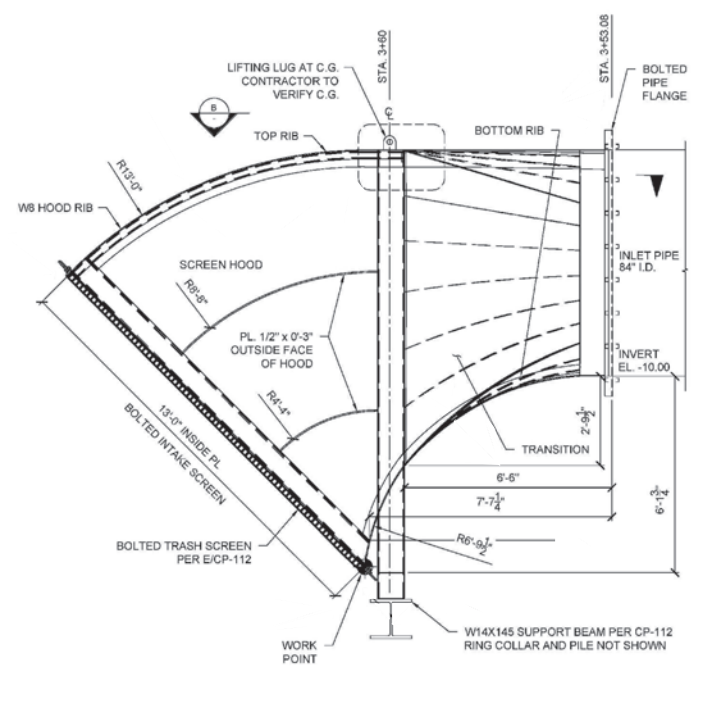
DATE
 08/01/2018

PROJECT
 2016.045

SHEET NO.
 24 OF 75



B PLAN - INLET STRUCTURE
SCALE: NTS



K DETAIL - INLET HOOD STRUCTURE
SCALE: NTS

- NOTE:
1. SCREEN SURFACE AREA IS BASED ON A 2.5 FT/SEC. MAX FLOW VELOCITY LIMIT. ASSUMING 0% PLUGGED DUE TO DEBRIS.
 2. COAT ALL INTAKE PARTS EXCEPT THE ALUMINIUM TRASH SCREEN W/ COATING SYSTEM NO. 2 PER CP-100.
 3. DIMENSIONS ARE TYPICALLY TO INSIDE OF HOOD PLATES.

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1	REVISED PER COMMENTS	1/30/19
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INLET STRUCTURE PLAN AND DETAIL

MISSISSIPPI RIVER WATER RE-INTRODUCTION INTO BAYOU LAFOURCHE, PUMPING CAPACITY IMPROVEMENT PROJECT
 APPLICANT: BAYOU LAFOURCHE FRESH WATER DISTRICT

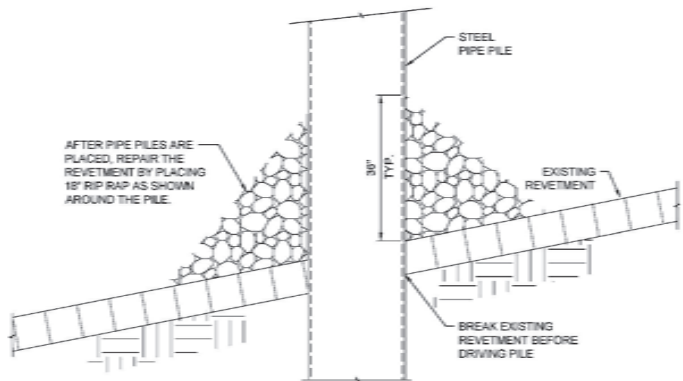
DONALDSONVILLE, LOUISIANA ASCENSION PARISH

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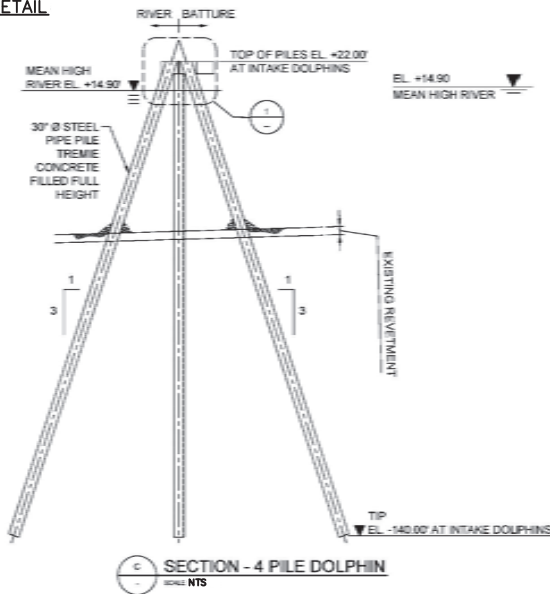
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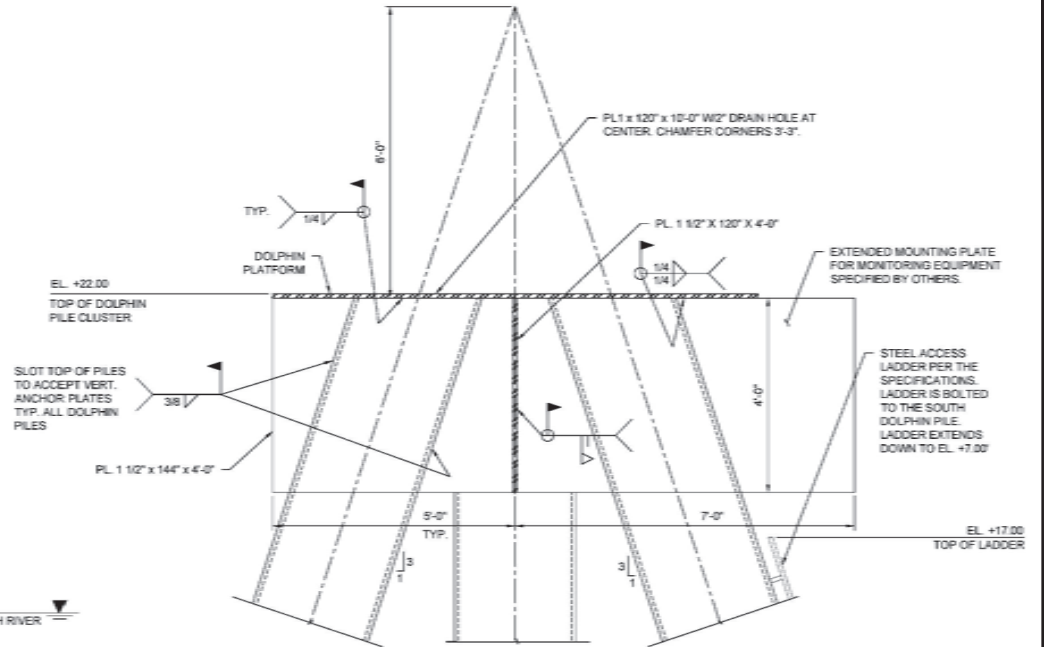
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			DATE 08/01/2018
			PROJECT 2016.045
			SHEET NO. 26 OF 75



EXISTING REVETMENT REPAIR DETAIL

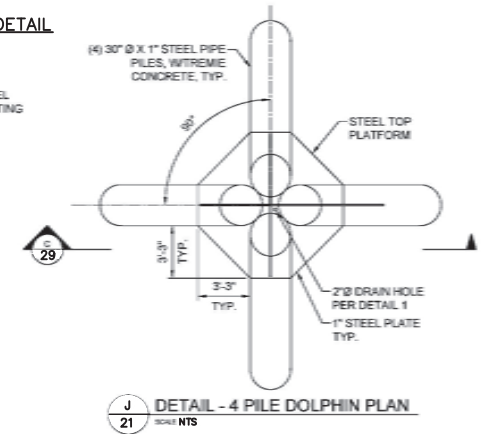


SECTION - 4 PILE DOLPHIN
SCALE NTS



DOLPHIN PILE TOP ANCHORAGE DETAIL

NOTE:
DOLPHIN PIPE PILES AND ALL STEEL PLATES TO BE COATED WITH COATING SYSTEM NO. 2 PER CP-100.



DETAIL - 4 PILE DOLPHIN PLAN
SCALE NTS

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DOLPHIN DETAILS AND REVETMENT REPAIR

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DONALDSONVILLE, LOUISIANA

ASCENSION PARISH



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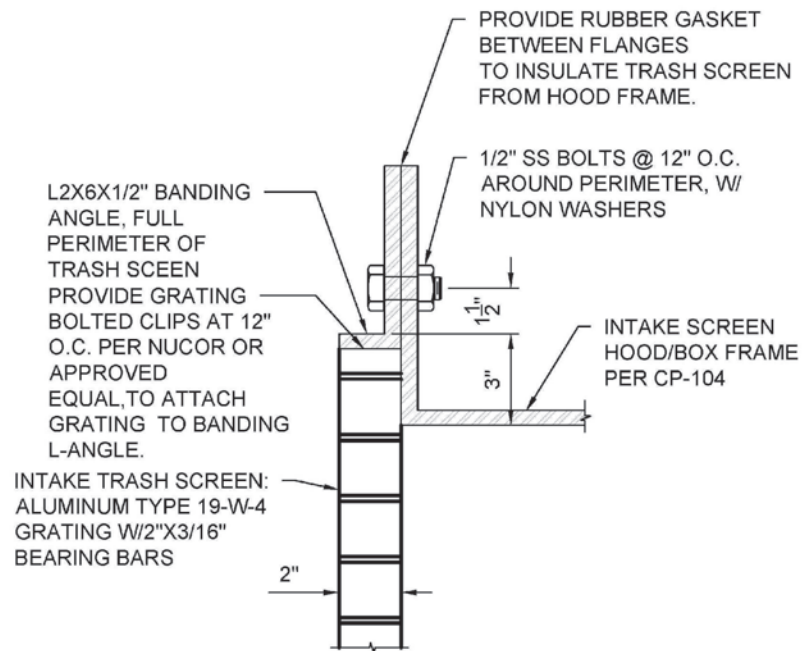
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PROJECT 2016.045

SHEET NO. 29 OF 75



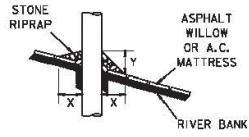
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TRASH SCREEN BOLTED CONNECTION
SCALE NTS

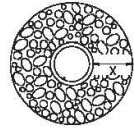
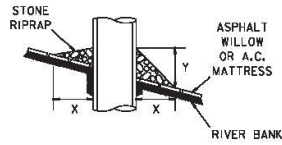
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NO.	REVISION	DATE	TRASH SCREEN CONNECTION DETAIL		SCALE SHOWN
1	REVISED PER COMMENTS	1/30/19	MISSISSIPPI RIVER WATER RE-INTRODUCTION INTO BAYOU LAFOURCHE, PUMPING CAPACITY IMPROVEMENT PROJECT APPLICANT: BAYOU LAFOURCHE FRESH WATER DISTRICT		DATE
2	REVISED PER COMMENTS	6/3/19			08/01/2018
3	ADDED SEDIMENT PIPELINE DRAWINGS	7/1/19			PROJECT
			DELTA COAST CONSULTANTS, LLC 4924 HWY 311 - HOUMA, LA 70360 PHONE: 985-655-3100 www.deltacoastllc.com		2016.045
			DESIGNED BY	DRAWN BY A.E.J	CHECKED BY
			DONALDSONVILLE, LOUISIANA ASCENSION PARISH		SHEET NO. 30 OF 75

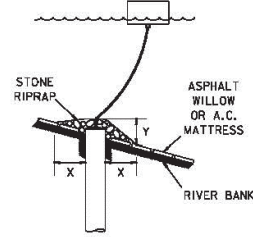
PILE



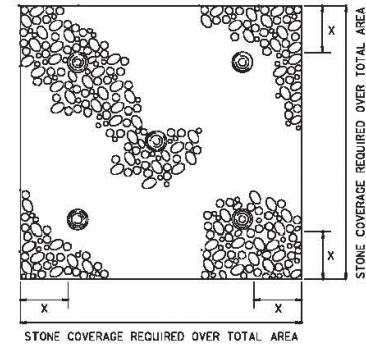
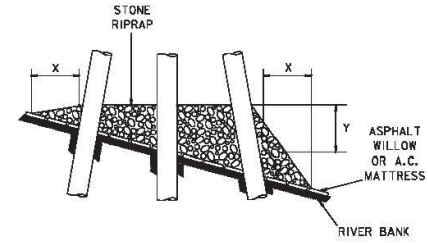
CAISSON



SPUD PILE
(BUOY AND ANCHOR CHAIN)



PILE CLUSTER




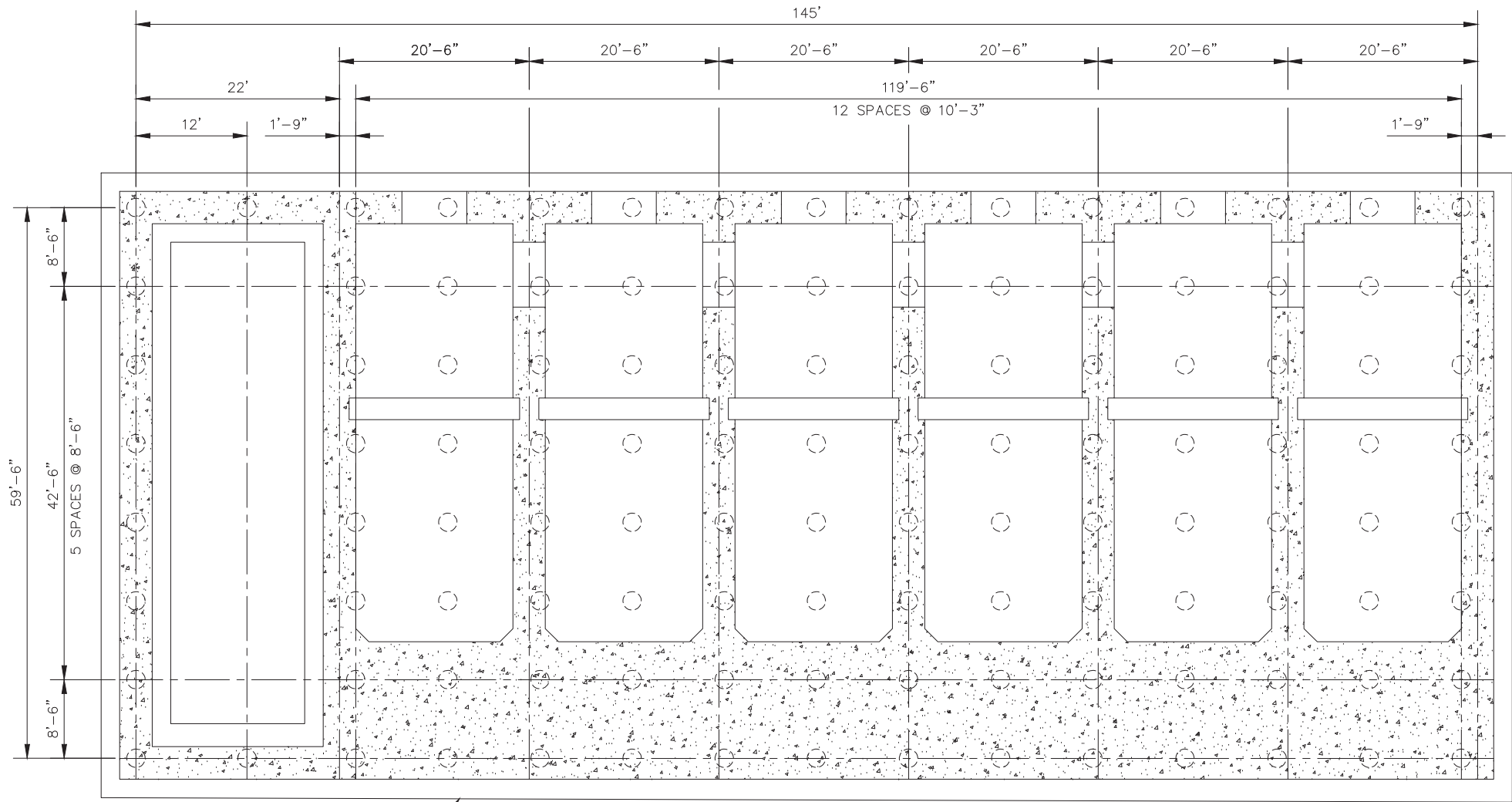
DEPTH OF WATER IN FEET AT POINT OF PENETRATION AT TIME OF STONE PLACEMENT	DIMENSIONS IN FEET FOR PROTECTION AREA REQUIRED							
	PILE		CAISSON		SPUD PILE (BUOY AND ANCHOR CHAIN)		PILE CLUSTER	
	X	Y	X	Y	X	Y	X	Y
1' - 10'	3	1.5	5	2			3	1
11' - 40'	5	2	8	3	7	3	6	2
41' - 60'	8	3	12	4	12	4	10	3

NOTES:

1. SIZE OF RIPRAP TO VARY BETWEEN 6 POUNDS AND 125 POUNDS WITH 40 PERCENT TO 60 PERCENT OF THE STONE WITHIN THE RANGE OF 25 POUNDS TO 75 POUNDS.
2. WHEN PENETRATING THE UPPER BANK PAVING IN A REVETMENT AREA WITH PILES, CAISSONS AND/OR PILE CLUSTERS, A 10 INCH THICK RIPRAP STONE LAYER SHALL BE PLACED OVER ALL AREAS WHERE THE BANK PAVING IS DISTURBED BY DRIVING OPERATIONS.
3. WHEN USING AN ANCHOR CHAIN AND BUOY SYSTEM, THE ANCHOR CHAIN MUST BE ATTACHED AT THE TOP OF THE PILE TO MINIMIZE REVETMENT DAMAGE.

FILE: P:\2016\2016.045\DWG\404 PERMIT\2019-07-01_REV 03\03_SHT-21-31_INTAKE STRUCTURE PLAN AND PROFILE.DWG

NO.	REVISION	DATE	<p align="center">REVETMENT REPAIR</p> <p align="center">MISSISSIPPI RIVER WATER RE-INTRODUCTION INTO BAYOU LAFOURCHE, PUMPING CAPACITY IMPROVEMENT PROJECT APPLICANT: BAYOU LAFOURCHE FRESH WATER DISTRICT</p>		 <p align="center">DELTA COAST CONSULTANTS, LLC 4924 HWY 311 - HOUMA, LA 70360</p>	SCALE SHOWN
1	REVISED PER COMMENTS	1/30/19				<p align="center">DONALDSONVILLE, LOUISIANA</p>
2	REVISED PER COMMENTS	6/3/19			<p>www.deltacoastllc.com</p>	PROJECT 2016.045
3	ADDED SEDIMENT PIPELINE DRAWINGS	7/1/19			<p>DESIGNED BY</p>	SHEET NO. 31 OF 75
					<p>DRAWN BY A.E.J</p>	
					<p>CHECKED BY</p>	



EDGE OF FOUNDATION SLAB

FOUNDATION PLAN
SCALE: 1/16"=1'-0"

LEGEND

 DENOTES PROPOSED CONCRETE

FILE: P:\2016\2016.045\DWG\404 PERMIT\2019-07-01_REV 03\03_SHT-32_PUMP STATION FOUNDATION PLAN.DWG

NO.	REVISION	DATE
1	REVISED PER COMMENTS	2/6/19
2	REVISED PER COMMENTS	6/3/19
3	ADDED SEDIMENT PIPELINE DRAWINGS	7/1/19

PUMP STATION FOUNDATION PLAN

MISSISSIPPI RIVER WATER RE-INTRODUCTION INTO BAYOU LAFOURCHE, PUMPING CAPACITY IMPROVEMENT PROJECT
APPLICANT: BAYOU LAFOURCHE FRESH WATER DISTRICT

DONALDSONVILLE, LOUISIANA

ASCENSION PARISH



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DRAWN BY

TAA

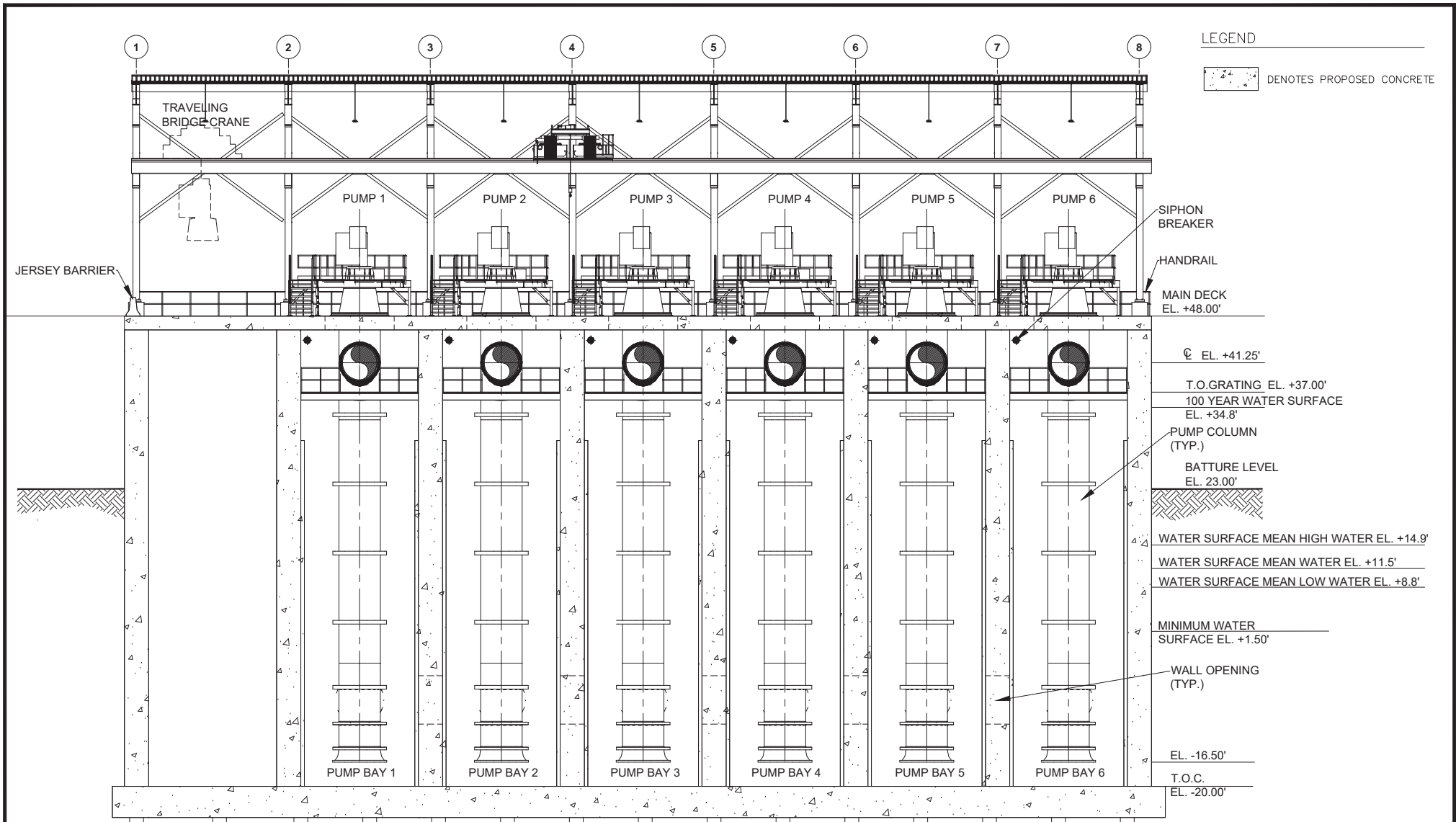
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
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DATE
08/01/2018

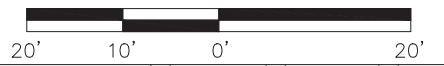
PROJECT
2016.045

SHEET NO.
32 OF 75



LEGEND
 DENOTES PROPOSED CONCRETE

SCALE IN FEET



FILE: P:\2016\2016.045\DWG\404 PERMIT\2019-07-01_REV 03\03_SHT-33-35_PUMP STATION SECTIONS.DWG

NO.	REVISION	DATE
1	REVISED PER COMMENTS	2/6/19
2	REVISED PER COMMENTS	6/3/19
3	ADDED SEDIMENT PIPELINE DRAWINGS	7/1/19

PUMP STATION SECTION A

MISSISSIPPI RIVER WATER RE-INTRODUCTION INTO BAYOU LAFOURCHE, PUMPING CAPACITY IMPROVEMENT PROJECT
 APPLICANT: BAYOU LAFOURCHE FRESH WATER DISTRICT

DONALDSONVILLE, LOUISIANA ASCENSION PARISH



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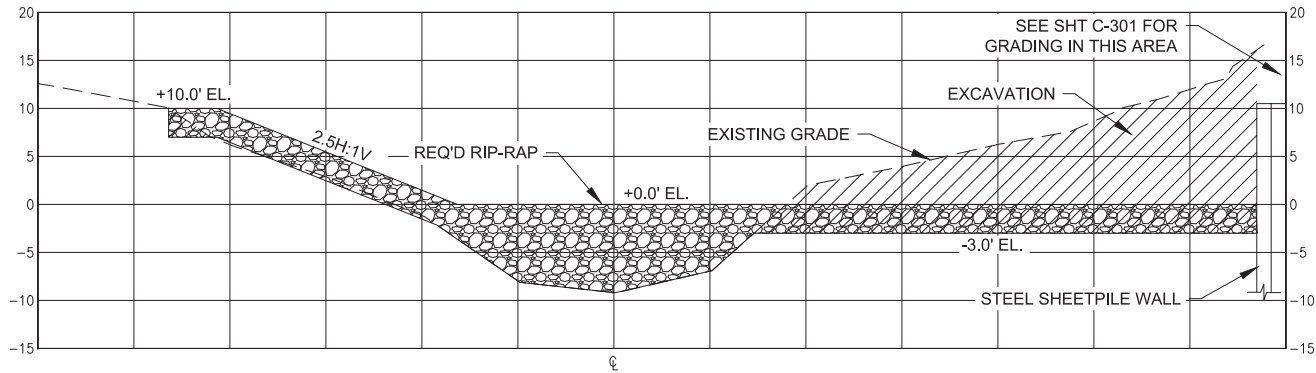
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DATE: 08/01/2018

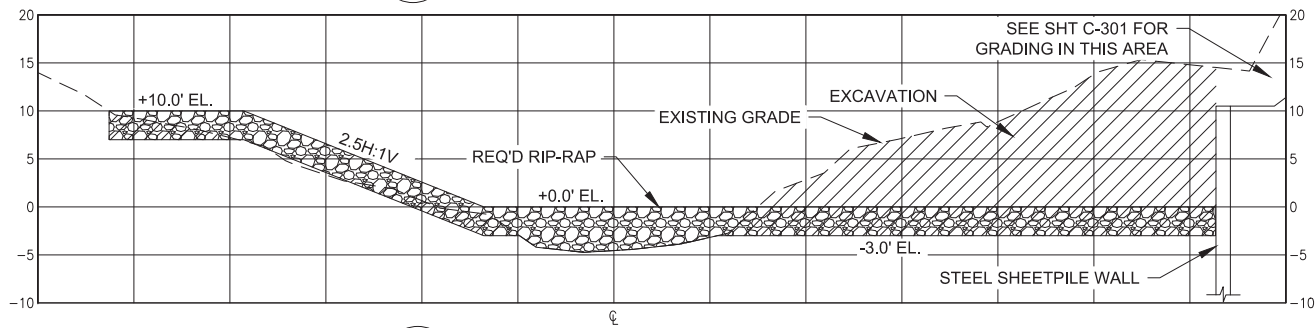
PROJECT: 2016.045

SHEET NO.: 33 OF 75

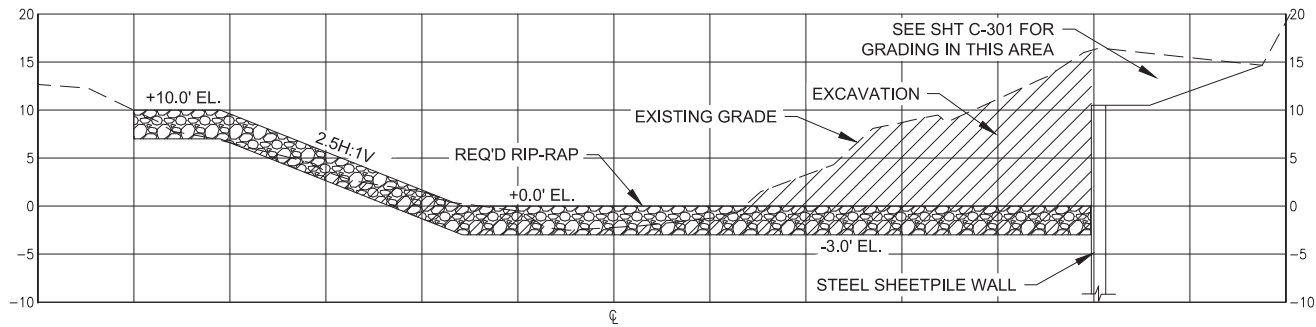
DESIGNED BY	DRAWN BY	CHECKED BY
	AEJ	



Q SECTION-OUTSIDE OF OUTLET STRUCTURE
36 SCALE: 1" = 20'



P SECTION-OUTSIDE OF OUTLET STRUCTURE
36 SCALE: 1" = 20'



O SECTION-OUTSIDE OF OUTLET STRUCTURE
36 SCALE: 1" = 20'

NO.	REVISION	DATE
1	ADDED SHEET	2/6/19
2	REVISED PER COMMENTS	6/3/19
3	ADDED SEDIMENT PIPELINE DRAWINGS	7/1/19

CROSS SECTIONS-DISCHARGE BOX GRADING

MISSISSIPPI RIVER WATER RE-INTRODUCTION INTO BAYOU LAFOURCHE, PUMPING CAPACITY IMPROVEMENT PROJECT
APPLICANT: BAYOU LAFOURCHE FRESH WATER DISTRICT

DONALDSONVILLE, LOUISIANA

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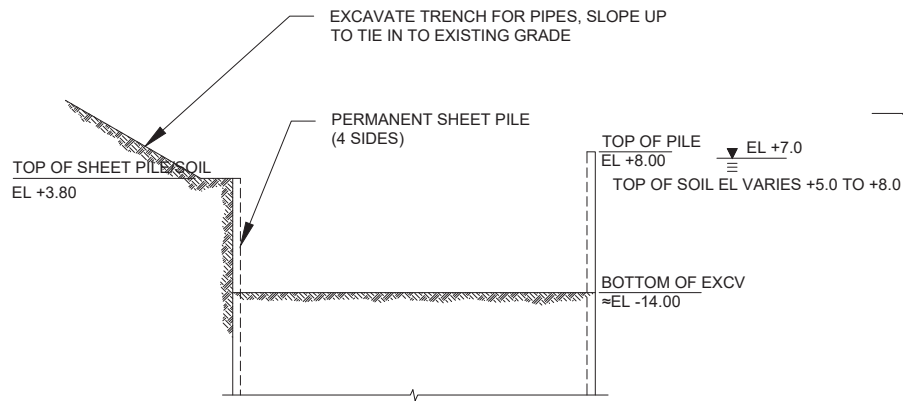
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SCALE SHOWN

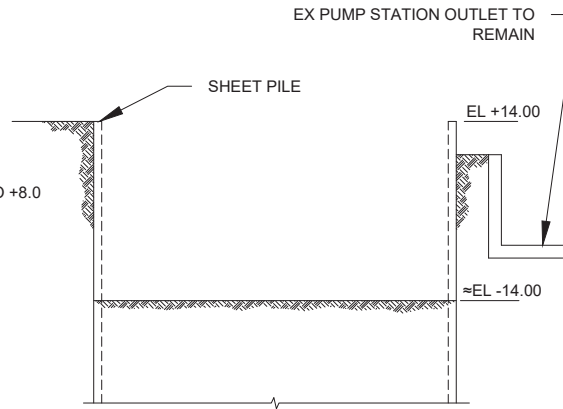
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PROJECT 2016.045

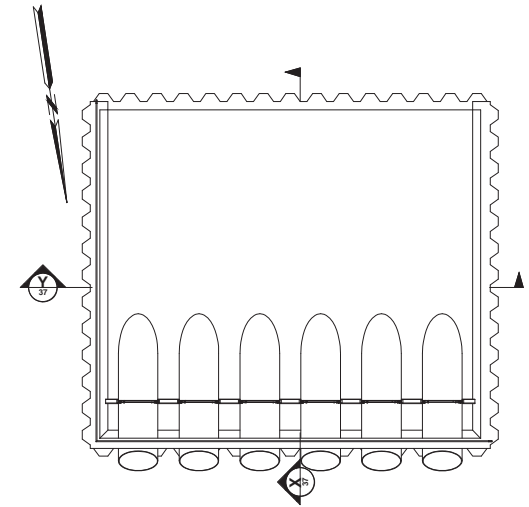
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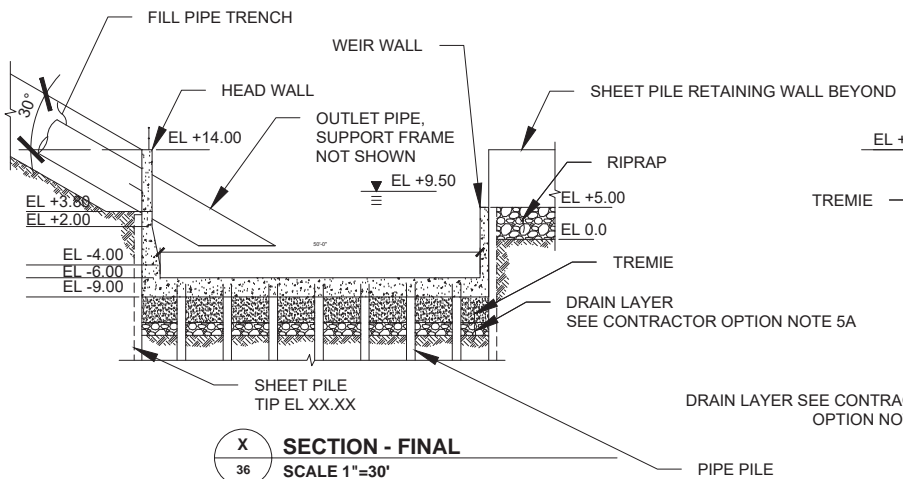
X SECTION - CONSTRUCTION
SCALE 1"=30'



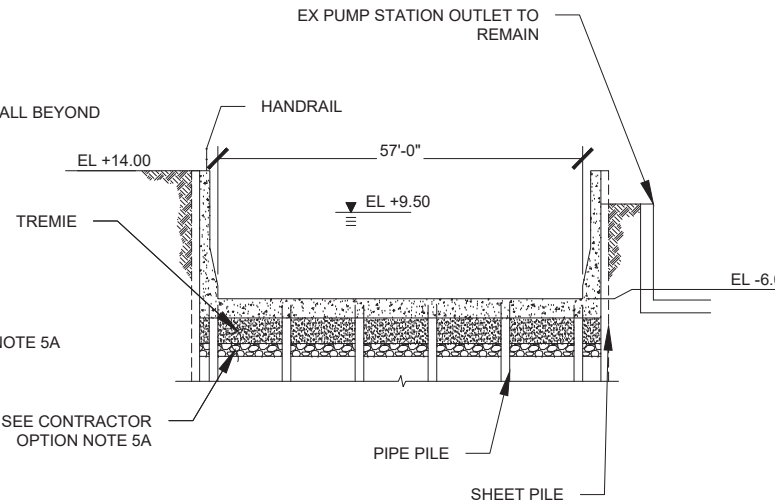
Y SECTION - CONSTRUCTION
SCALE 1"=30'



KEY PLAN
SCALE 1"=30'



X SECTION - FINAL
SCALE 1"=30'



Y SECTION - FINAL
SCALE 1"=30'

LEGEND

	EARTH		TREMIE CONCRETE LAYER
	RIP RAP		
	CONCRETE		

CONSTRUCTION SEQUENCE

1. REMOVE EXISTING FEATURES PER DEMOLITION PLAN BY OTHERS.
2. DRIVE SHEET PILE COFFERDAM AROUND THE PERIMETER OF THE STILLING BASIN, AND DRIVE SHEET PILE FOR THE DOWNSTREAM RETAINING WALL.
3. EXCAVATE TRENCH FOR THE OUTLET PIPES. EXCAVATE THE STILLING BASIN. BRACE AS REQUIRED TO REACH THE REQUIRED DEPTH. CUT OFF SHEET PILE WALL ON THE NORTHEAST HEADWALL OF THE STILLING BASIN.
4. DRIVE STEEL PIPE PILES.
5. PLACE GRAVEL DRAIN LAYER AT THE BOTTOM OF THE STILLING BASIN HOLE. POUR TREMIE CONCRETE SLAB ON TOP OF THE DRAIN LAYER. DEWATER THE COFFERDAM. INCLUDE SUMP PUMP(S) TO MAINTAIN DEWATERED STATE.
- 5A. CONTRACTOR OPTION: POUR TREMIE CONCRETE SLAB AT THE BOTTOM OF THE STILLING BASIN HOLE. DEWATER THE COFFERDAM. PROVIDE SUFFICIENT TREMIE CONCRETE TO RESIST FLOTATION.
6. CONSTRUCT CAST-IN PLACE STILLING BASIN UP TO THE BASE OF THE PIPE PENETRATION THROUGH THE STILLING BASIN HEAD WALL AT EL +3.80.
7. INSTALL OUTLET PIPES AND PIPE SUPPORT FRAME.
8. CONSTRUCT REMAINDER OF CAST-IN-PLACE STILLING BASIN
9. EXCAVATE RIPRAP CHANNEL DOWNSTREAM OF STILLING BASIN. PLACE FILL AROUND THE OUTLET PIPES PER THE OUTLET PIPE DRAWINGS.
10. CUT OFF SHEET PILE AT THE SOUTHWEST FACE OF THE STILLING BASIN AT EL +5.00.
11. PLACE RIPRAP PROTECTION.
12. TOTAL EXCAVATION = 4,300 C.Y.
13. BACKFILL: AGGREGATE/RIPRAP=1,600 C.Y., CONCRETE=1,050 C.Y.

FILE: P:\2016\2016.045\DWG\404 PERMIT\2019-07-01_REV 03\03_SHT-38_OUTLETSTRUCTURE CONSTRUCTION PLAN.DWG

NO.	REVISION	DATE
1	REVISED PER COMMENTS	2/1/19
2	REVISED PER COMMENTS	6/3/19
3	ADDED SEDIMENT PIPELINE DRAWINGS	7/1/19

OUTLET STRUCTURE CONSTRUCTION PLAN

MISSISSIPPI RIVER WATER RE-INTRODUCTION INTO BAYOU LAFOURCHE, PUMPING CAPACITY IMPROVEMENT PROJECT
APPLICANT: BAYOU LAFOURCHE FRESH WATER DISTRICT

DONALDSONVILLE, LOUISIANA

ASCENSION PARISH



DELTA COAST CONSULTANTS, LLC
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PHONE: 985-655-3100

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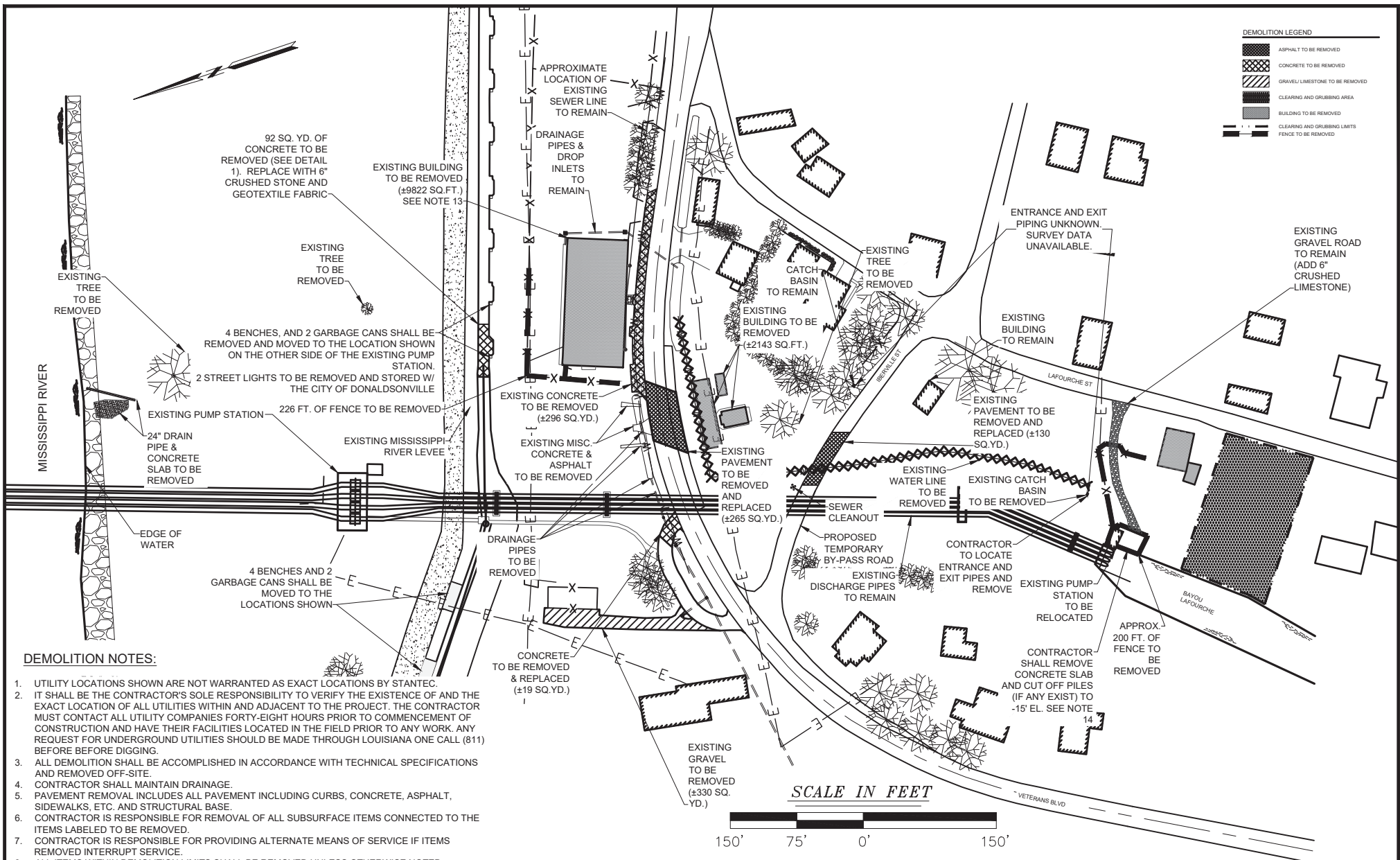
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DATE 2/1/2019

PROJECT 2016.045

SHEET NO. 38 OF 75



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NO.	REVISION	DATE
1	REVISED PER COMMENTS	2/1/2019
2	REVISED PER COMMENTS	6/3/19
3	ADDED SEDIMENT PIPELINE DRAWINGS	7/1/19

DEMO PLAN

MISSISSIPPI RIVER WATER RE-INTRODUCTION INTO BAYOU LAFOURCHE, PUMPING CAPACITY IMPROVEMENT PROJECT
 APPLICANT: BAYOU LAFOURCHE FRESH WATER DISTRICT

DONALDSONVILLE, LOUISIANA ASCENSION PARISH



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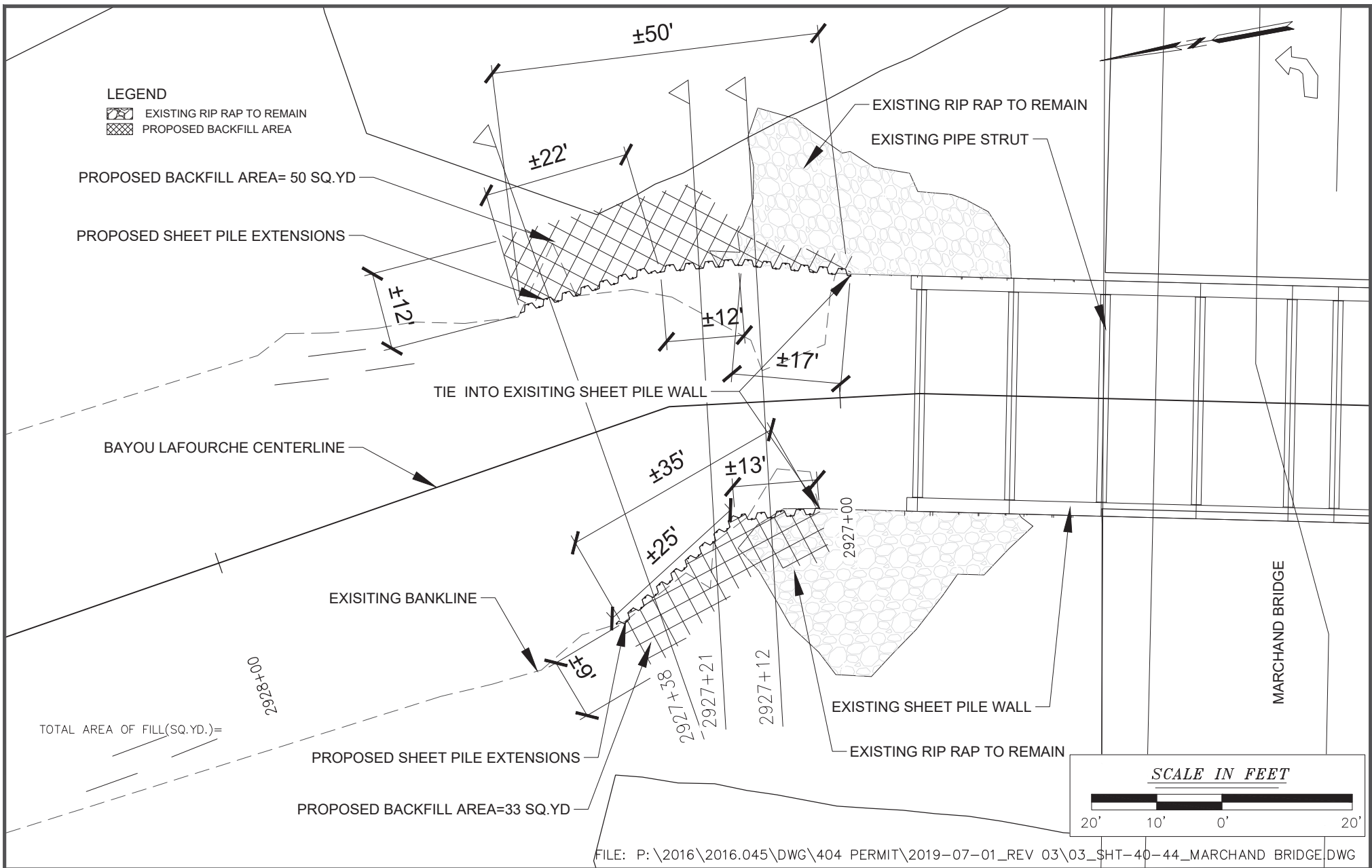
SCALE NOTED

DATE 2/1/2019

PROJECT 2016.045

SHEET NO. 39 OF 75

DESIGNED BY	DRAWN BY AEJ	CHECKED BY
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FILE: P:\2016\2016.045\DWG\404 PERMIT\2019-07-01_REV 03\03_SHT-40-44_MARCHAND BRIDGE.DWG

NO.	REVISION	DATE
1	REVISED PER COMMENTS	2/6/2019
2	REVISED PER COMMENTS	6/3/19
3	ADDED SEDIMENT PIPELINE DRAWINGS	7/1/19

PROPOSED MARCHAND BRIDGE PLAN

MISSISSIPPI RIVER WATER RE-INTRODUCTION INTO BAYOU LAFOURCHE, PUMPING CAPACITY IMPROVEMENT PROJECT
 APPLICANT: BAYOU LAFOURCHE FRESH WATER DISTRICT

DONALDSONVILLE, LOUISIANA ASCENSION PARISH



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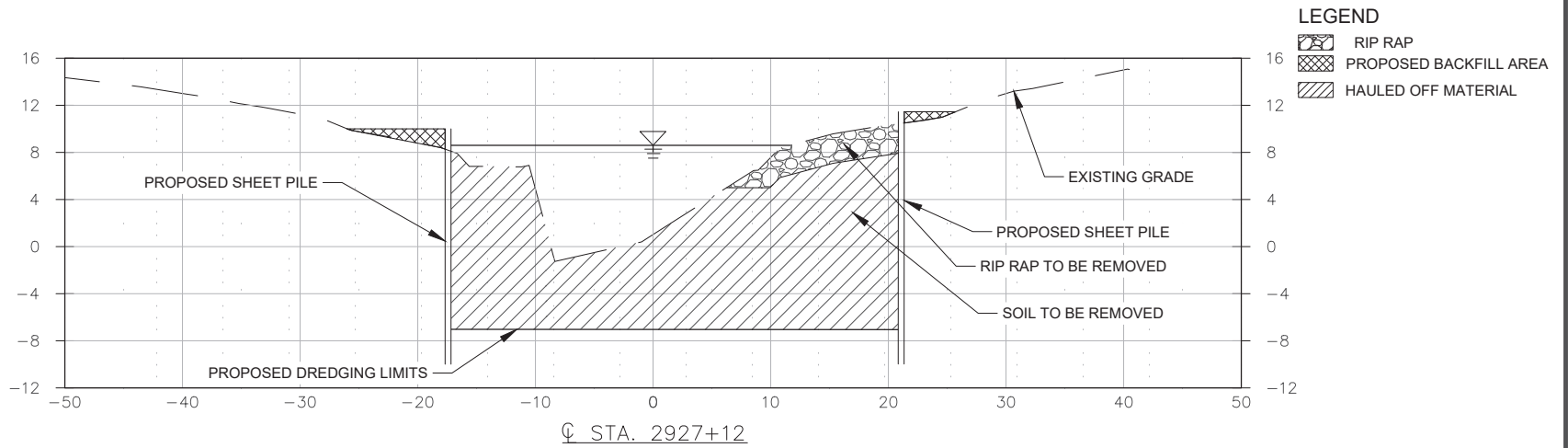
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DATE 08/01/2018

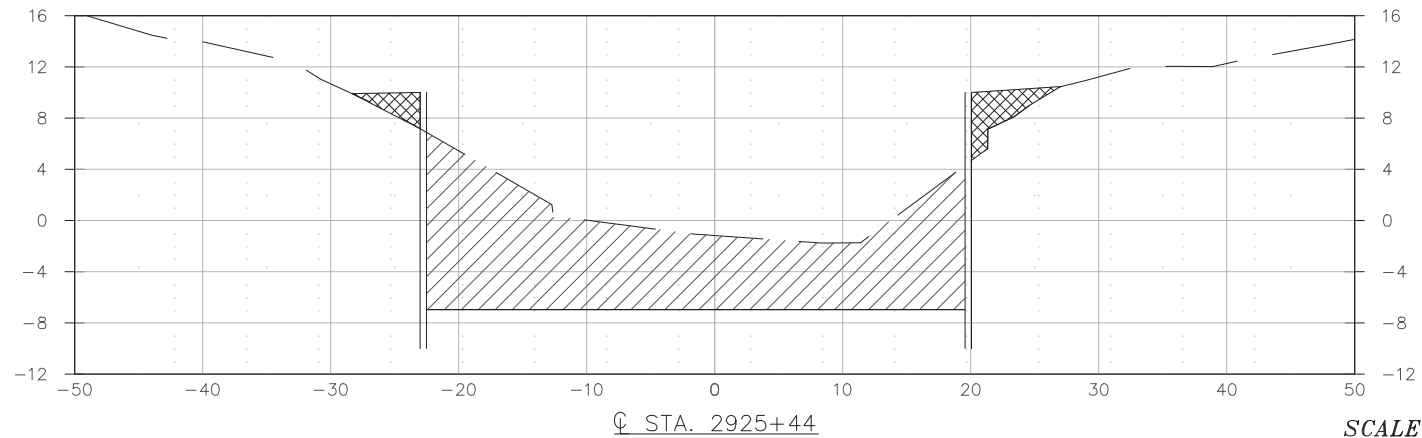
PROJECT 2016.045

SHEET NO. 41 OF 75

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☐ STA. 2927+12



☐ STA. 2925+44

SCALE IN FEET



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NO.	REVISION	DATE
1	REVISED PER COMMENTS	2/6/2019
2	REVISED PER COMMENTS	6/3/19
3	ADDED SEDIMENT PIPELINE DRAWINGS	7/1/19

SHEET PILE CROSS SECTIONS 1

MISSISSIPPI RIVER WATER RE-INTRODUCTION INTO BAYOU LAFOURCHE, PUMPING CAPACITY IMPROVEMENT PROJECT
 APPLICANT: BAYOU LAFOURCHE FRESH WATER DISTRICT

DONALDSONVILLE, LOUISIANA

ASCENSION PARISH



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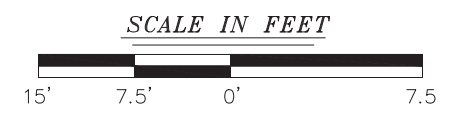
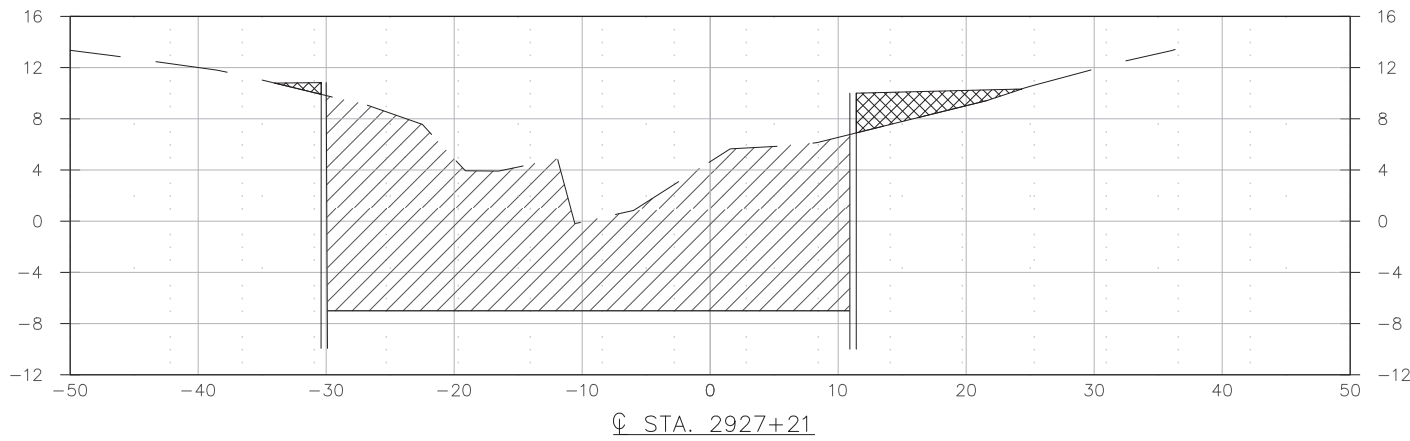
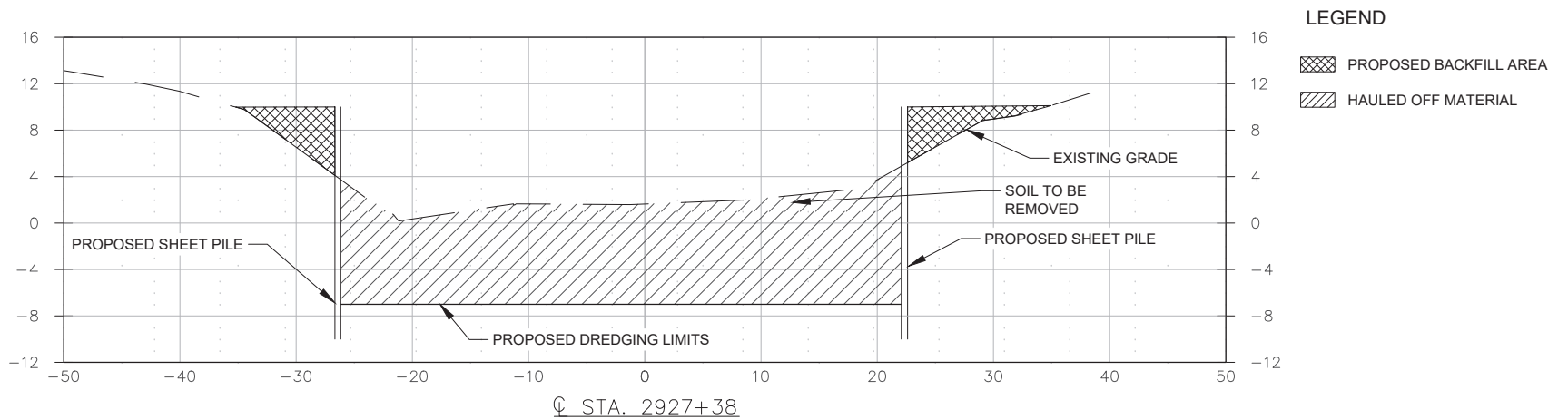
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SCALE
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DATE
 08/01/2018

PROJECT
 2016.045

SHEET NO.
 43 OF 75



FILE: P:\2016\2016.045\DWG\404 PERMIT\2019-07-01_REV 03\03_SHT-40-44_MARCHAND BRIDGE.DWG

NO.	REVISION	DATE
1	REVISED PER COMMENTS	2/6/2019
2	REVISED PER COMMENTS	6/3/19
3	ADDED SEDIMENT PIPELINE DRAWINGS	7/1/19

SHEET PILE CROSS SECTIONS 2

MISSISSIPPI RIVER WATER RE-INTRODUCTION INTO BAYOU LAFOURCHE, PUMPING CAPACITY IMPROVEMENT PROJECT
 APPLICANT: BAYOU LAFOURCHE FRESH WATER DISTRICT

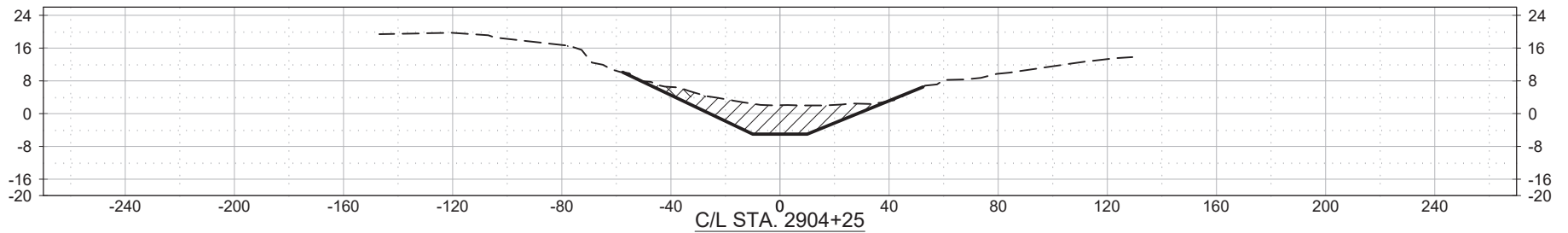
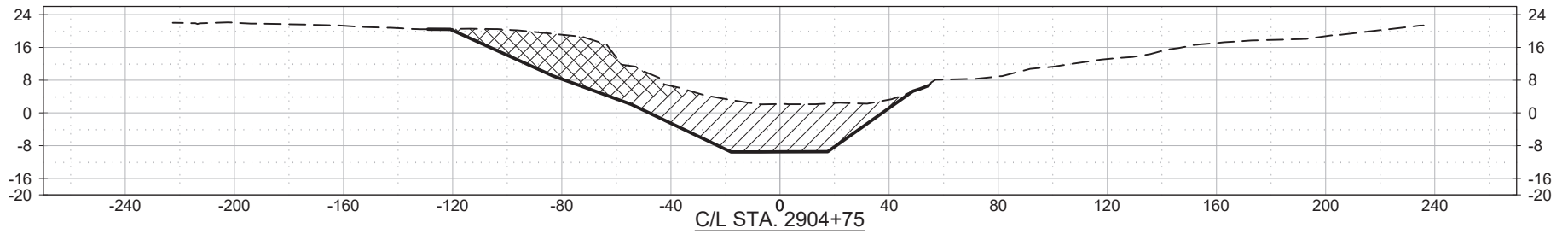
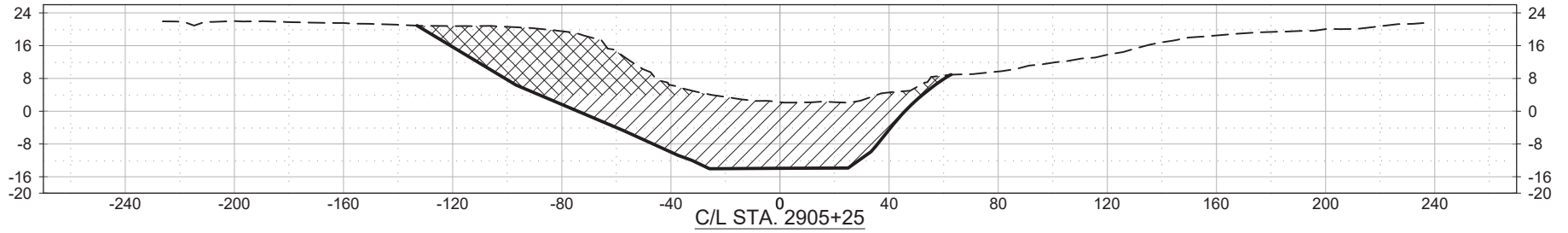
DONALDSONVILLE, LOUISIANA ASCENSION PARISH



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DATE 08/01/2018
PROJECT 2016.045
SHEET NO. 44 OF 75



FILE: P:\2016\2016.045\DWG\404 PERMIT\2019-07-01_REV 03\03_SHT-48-61_SEDIMENT TRAP CROSS SECTIONS.DWG

NO.	REVISION	DATE
00	NO CHANGES MADE TO THIS SHEET	2/1/19
2	REVISED PER COMMENTS	6/3/19
3	ADDED SEDIMENT PIPELINE DRAWINGS	7/1/19

TYPICAL SEDIMENT TRAP CROSS SECTIONS 1

MISSISSIPPI RIVER WATER RE-INTRODUCTION INTO BAYOU
LAFOURCHE, PUMPING CAPACITY IMPROVEMENT PROJECT
APPLICANT: BAYOU LAFOURCHE FRESH WATER DISTRICT

DONALDSONVILLE, LOUISIANA

ASCENSION PARISH



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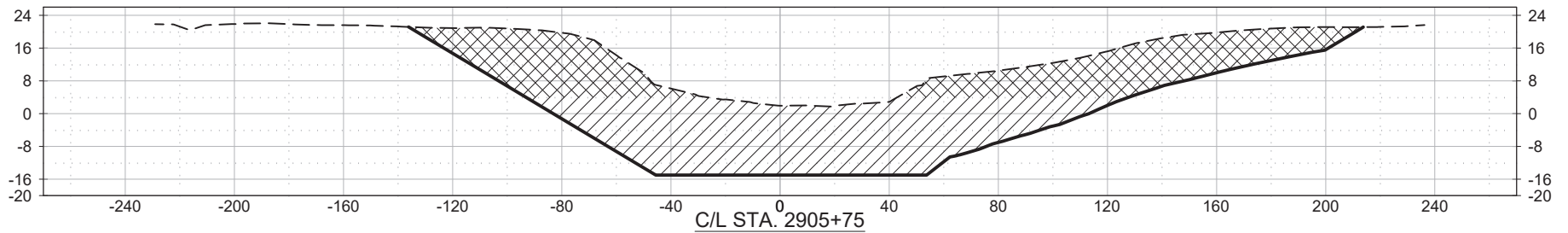
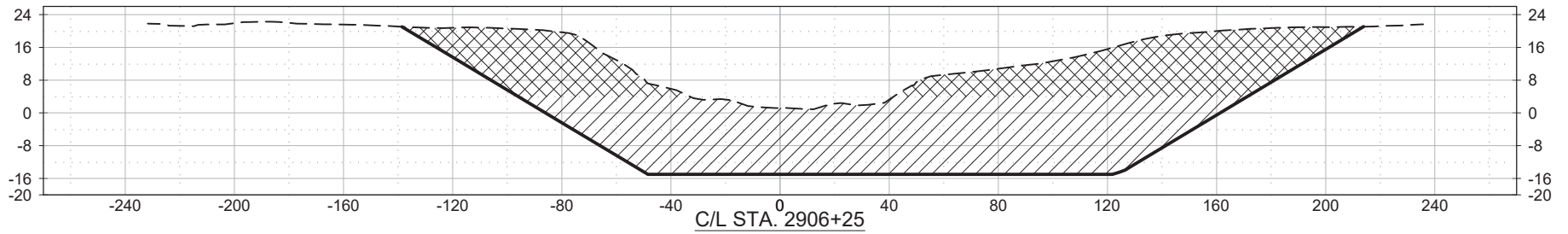
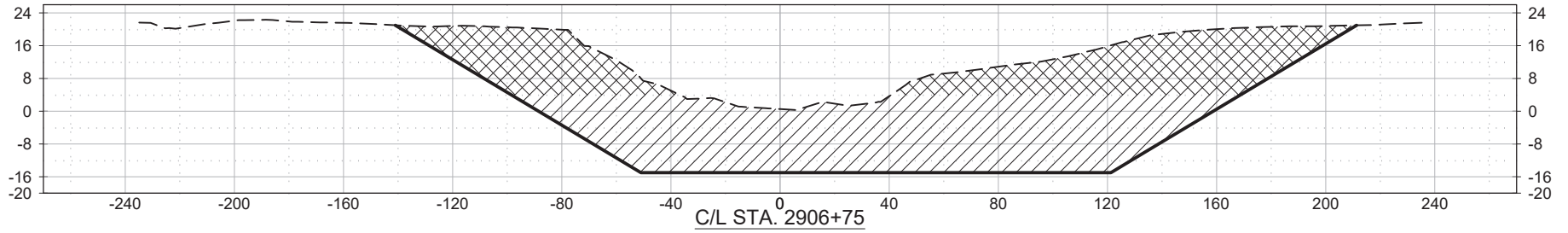
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SCALE
N.T.S.

DATE
08/01/2018

PROJECT
2016.045

SHEET NO.
48 OF 75



FILE: P:\2016\2016.045\DWG\404 PERMIT\2019-07-01_REV 03\03_SHT-48-61_SEDIMENT TRAP CROSS SECTIONS.DWG

NO.	REVISION	DATE
00	NO CHANGES MADE TO THIS SHEET	02/1/19
2	REVISED PER COMMENTS	6/3/19
3	ADDED SEDIMENT PIPELINE DRAWINGS	7/1/19

TYPICAL SEDIMENT TRAP CROSS SECTIONS 2

MISSISSIPPI RIVER WATER RE-INTRODUCTION INTO BAYOU LAFOURCHE, PUMPING CAPACITY IMPROVEMENT PROJECT
 APPLICANT: BAYOU LAFOURCHE FRESH WATER DISTRICT

DONALDSONVILLE, LOUISIANA

ASCENSION PARISH



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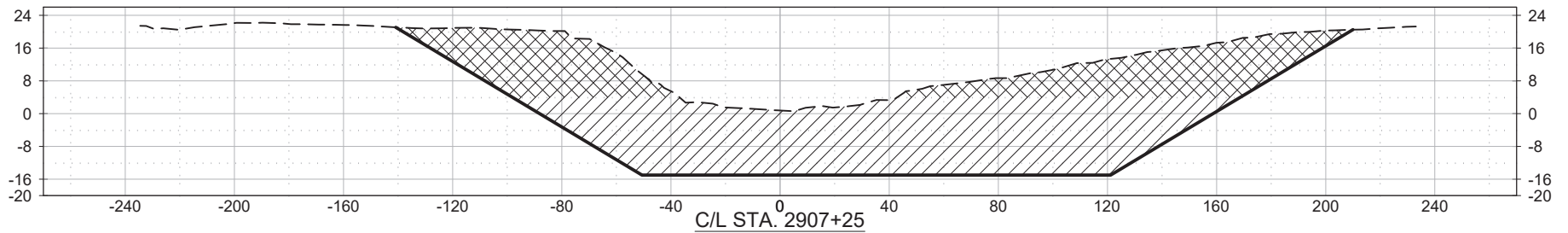
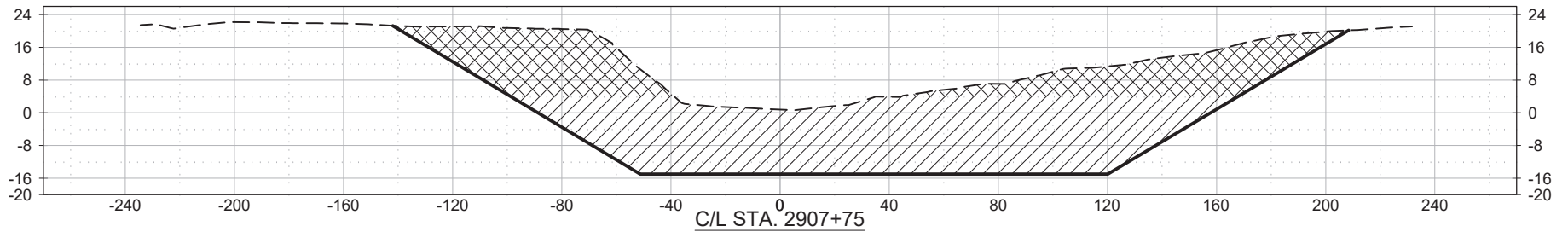
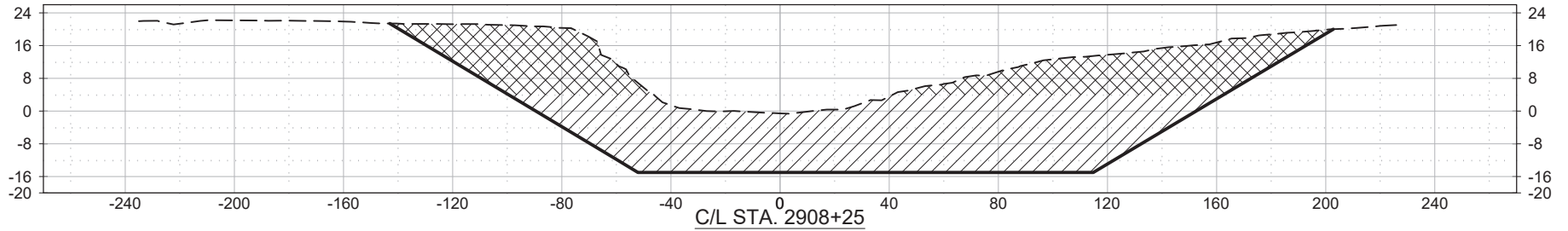
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SCALE
 N.T.S

DATE
 08/01/2018

PROJECT
 2016.045

SHEET NO.
 49 OF 75



FILE: P:\2016\2016.045\DWG\404 PERMIT\2019-07-01_REV 03\03_SHT-48-61_SEDIMENT TRAP CROSS SECTIONS.DWG

NO.	REVISION	DATE
00	NO CHANGES MADE TO THIS SHEET	02/1/19
2	REVISED PER COMMENTS	6/3/19
3	ADDED SEDIMENT PIPELINE DRAWINGS	7/1/19

TYPICAL SEDIMENT TRAP CROSS SECTIONS 3

MISSISSIPPI RIVER WATER RE-INTRODUCTION INTO BAYOU LAFOURCHE, PUMPING CAPACITY IMPROVEMENT PROJECT
 APPLICANT: BAYOU LAFOURCHE FRESH WATER DISTRICT

DONALDSONVILLE, LOUISIANA

ASCENSION PARISH



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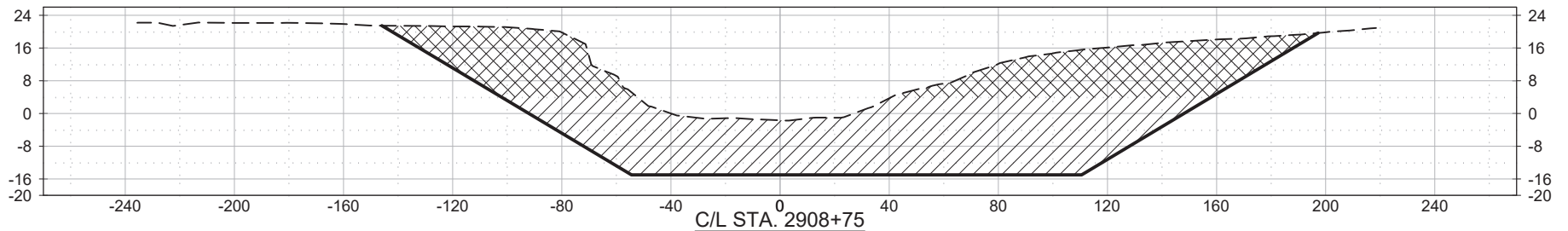
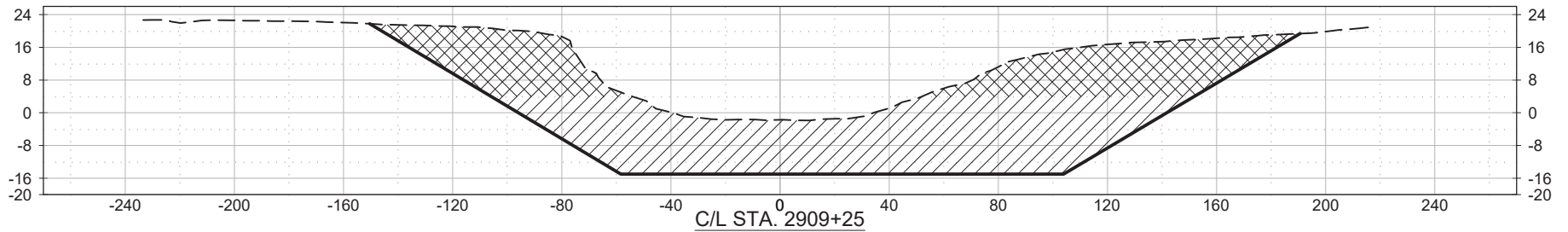
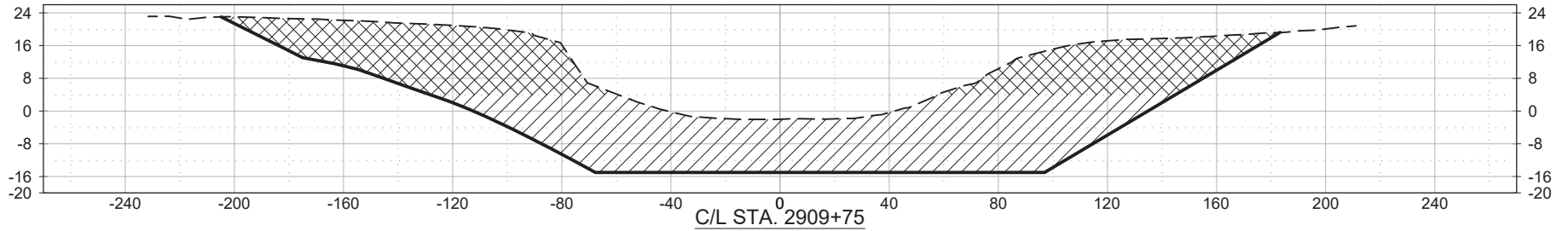
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SCALE
 N.T.S

DATE
 08/01/2018

PROJECT
 2016.045

SHEET NO.
 50 OF 75



FILE: P:\2016\2016.045\DWG\404 PERMIT\2019-07-01_REV 03\03_SHT-48-61_SEDIMENT TRAP CROSS SECTIONS.DWG

NO.	REVISION	DATE
00	NO CHANGES MADE TO THIS SHEET	02/1/19
2	REVISED PER COMMENTS	6/3/19
3	ADDED SEDIMENT PIPELINE DRAWINGS	7/1/19

TYPICAL SEDIMENT TRAP CROSS SECTIONS 4

MISSISSIPPI RIVER WATER RE-INTRODUCTION INTO BAYOU LAFOURCHE, PUMPING CAPACITY IMPROVEMENT PROJECT
 APPLICANT: BAYOU LAFOURCHE FRESH WATER DISTRICT

DONALDSONVILLE, LOUISIANA

ASCENSION PARISH



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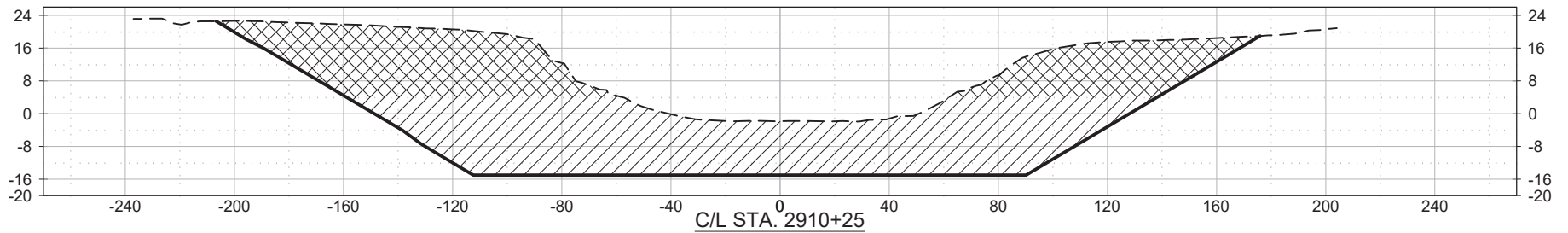
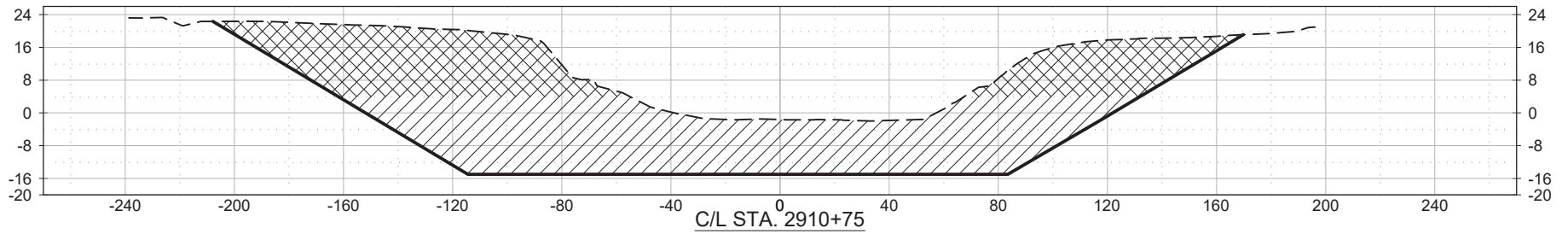
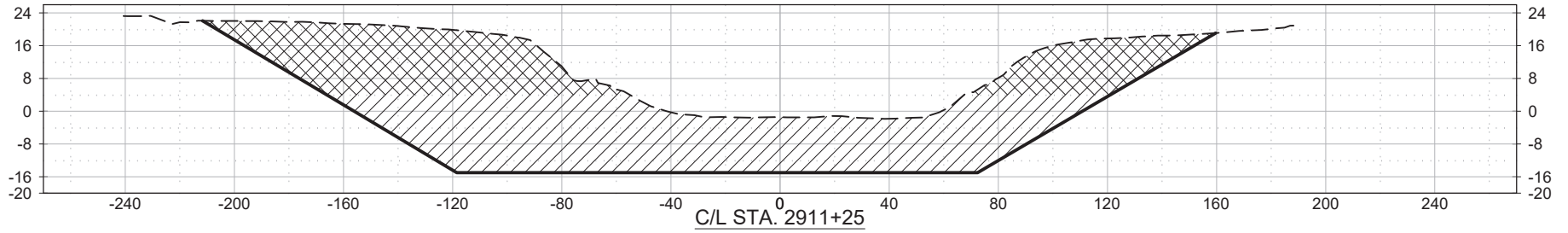
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TYPICAL SEDIMENT TRAP CROSS SECTIONS 5

MISSISSIPPI RIVER WATER RE-INTRODUCTION INTO BAYOU LAFOURCHE, PUMPING CAPACITY IMPROVEMENT PROJECT
 APPLICANT: BAYOU LAFOURCHE FRESH WATER DISTRICT

DONALDSONVILLE, LOUISIANA

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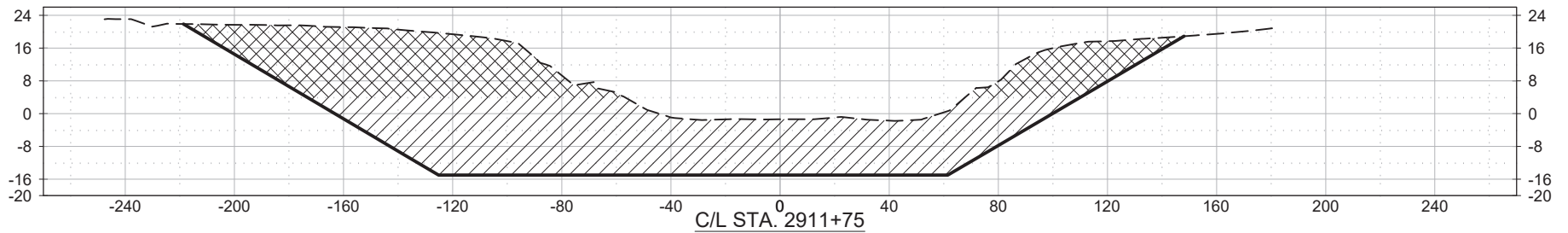
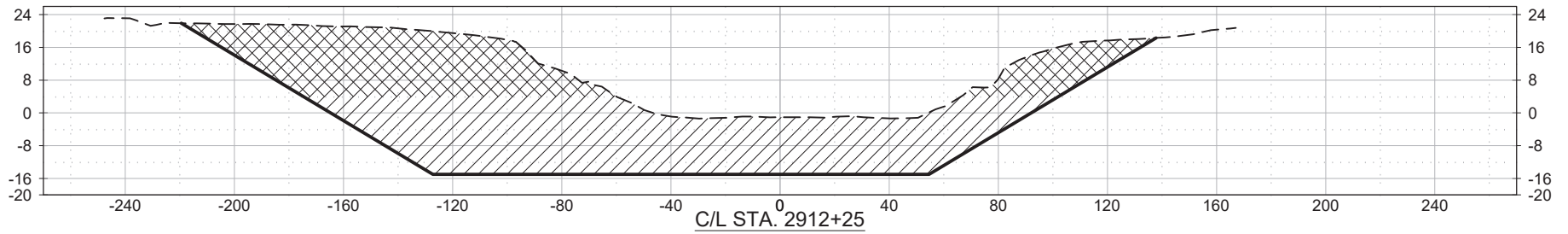
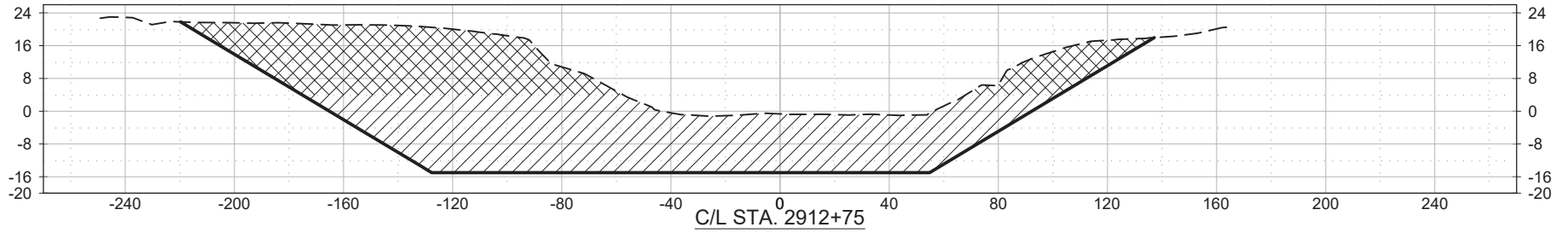
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TYPICAL SEDIMENT TRAP CROSS SECTIONS 6

MISSISSIPPI RIVER WATER RE-INTRODUCTION INTO BAYOU
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APPLICANT: BAYOU LAFOURCHE FRESH WATER DISTRICT

DONALDSONVILLE, LOUISIANA

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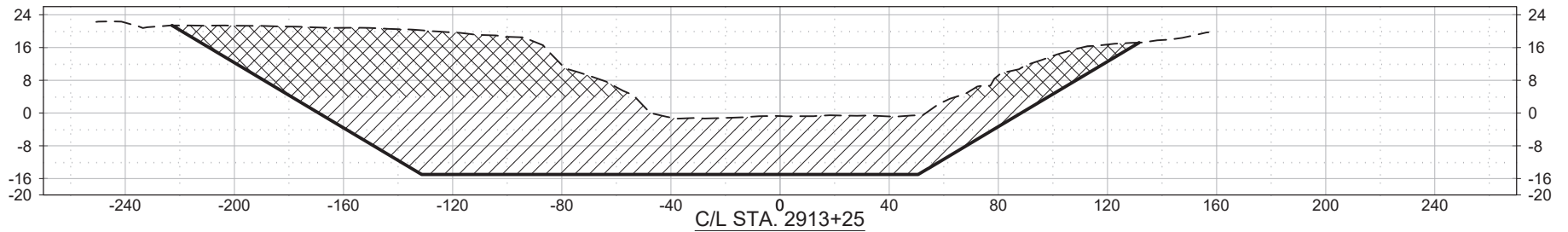
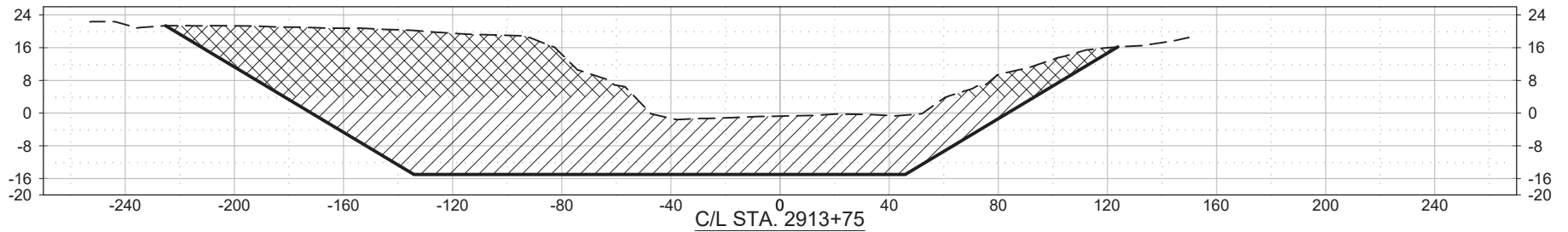
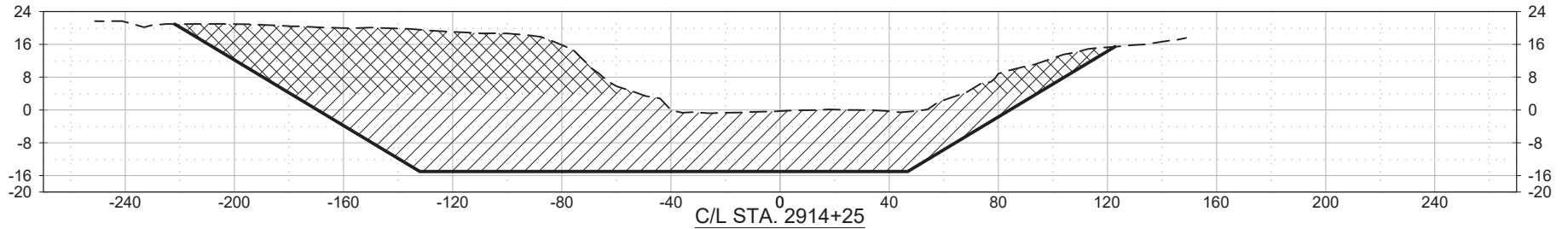
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TYPICAL SEDIMENT TRAP CROSS SECTIONS 7

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 APPLICANT: BAYOU LAFOURCHE FRESH WATER DISTRICT

DONALDSONVILLE, LOUISIANA

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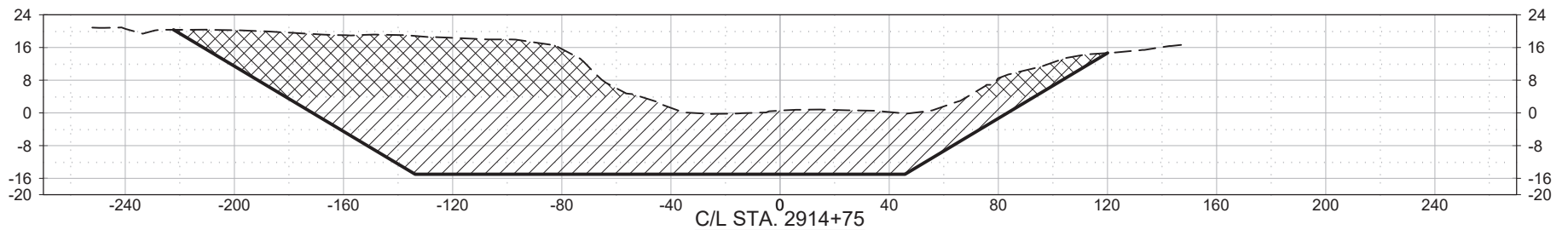
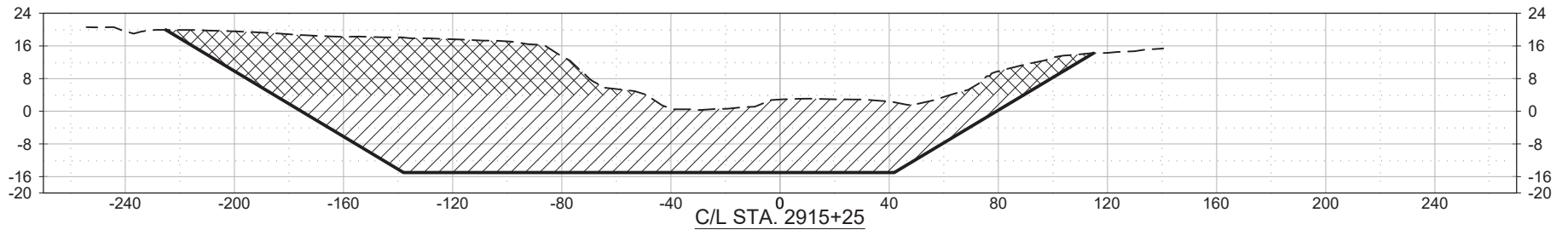
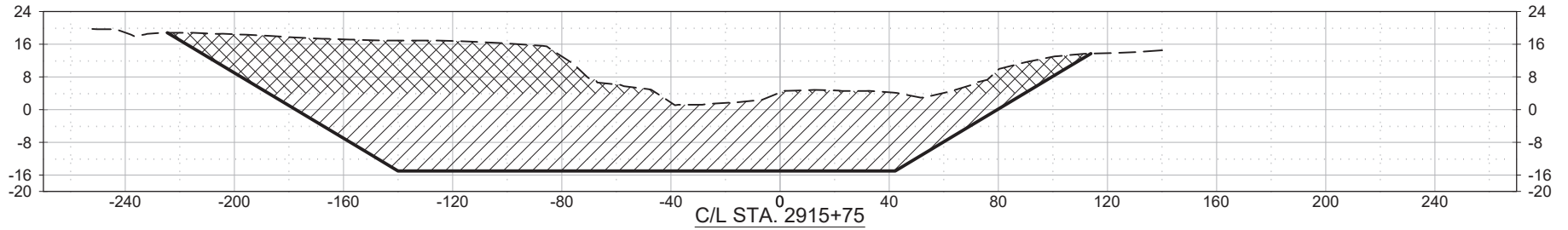
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TYPICAL SEDIMENT TRAP CROSS SECTIONS 8

MISSISSIPPI RIVER WATER RE-INTRODUCTION INTO BAYOU LAFOURCHE, PUMPING CAPACITY IMPROVEMENT PROJECT
 APPLICANT: BAYOU LAFOURCHE FRESH WATER DISTRICT

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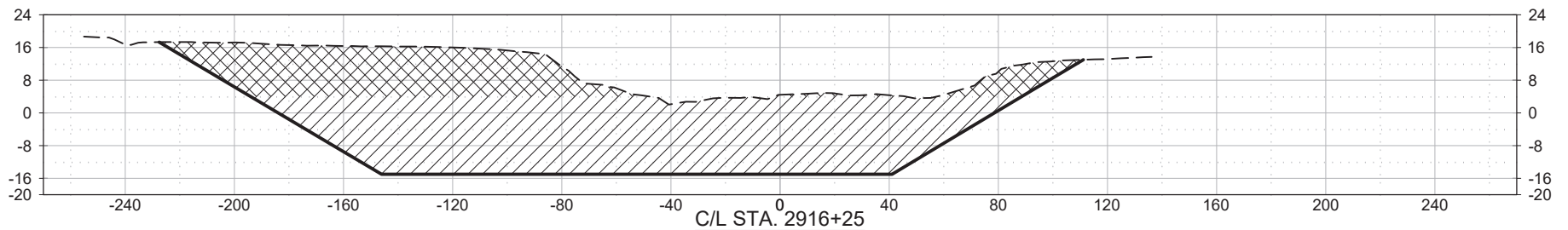
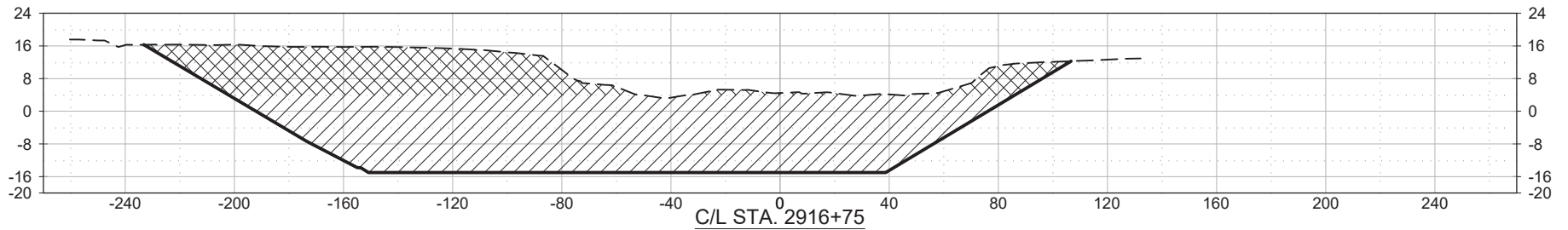
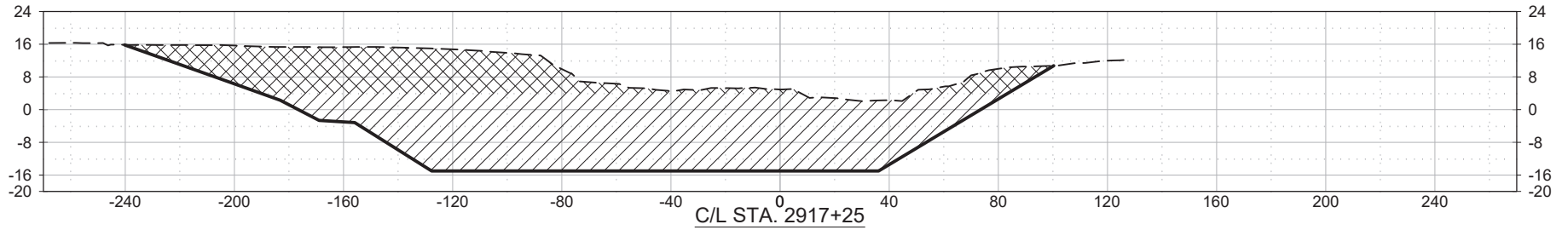
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TYPICAL SEDIMENT TRAP CROSS SECTIONS 9

MISSISSIPPI RIVER WATER RE-INTRODUCTION INTO BAYOU LAFOURCHE, PUMPING CAPACITY IMPROVEMENT PROJECT
 APPLICANT: BAYOU LAFOURCHE FRESH WATER DISTRICT

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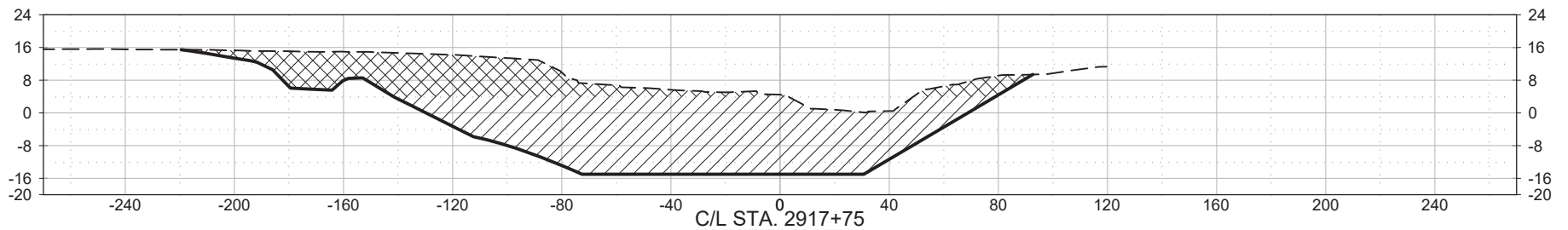
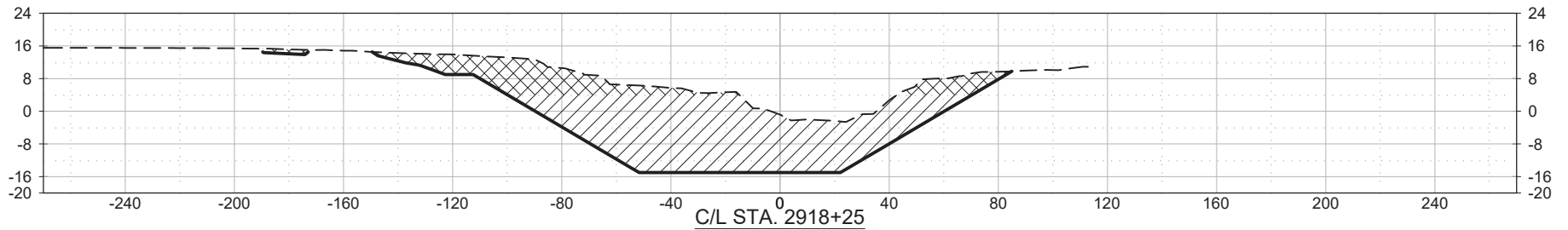
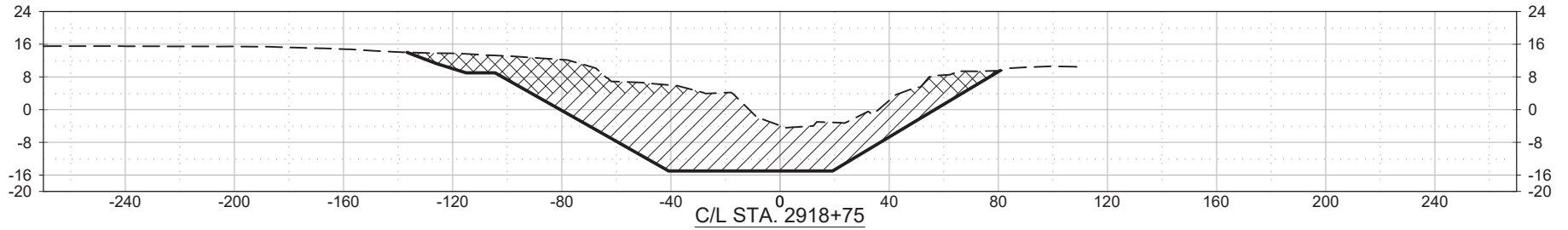
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TYPICAL SEDIMENT TRAP CROSS SECTIONS 10

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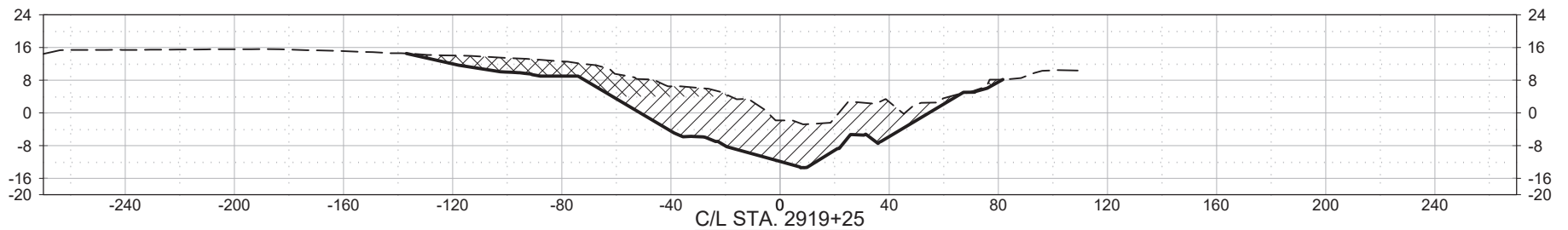
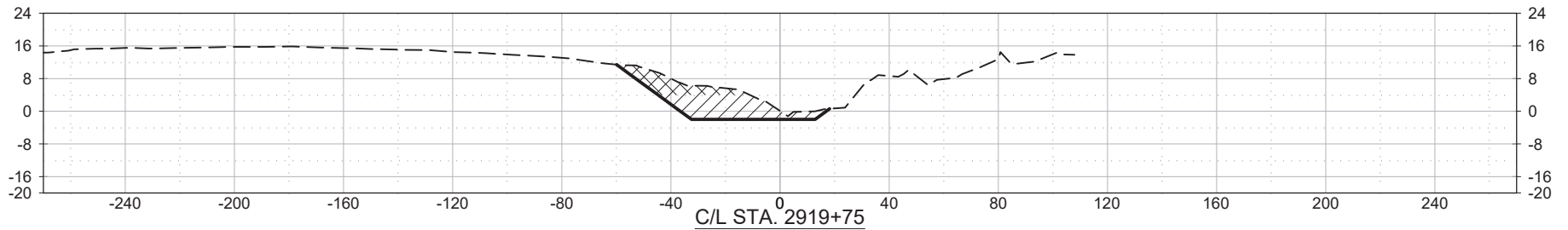
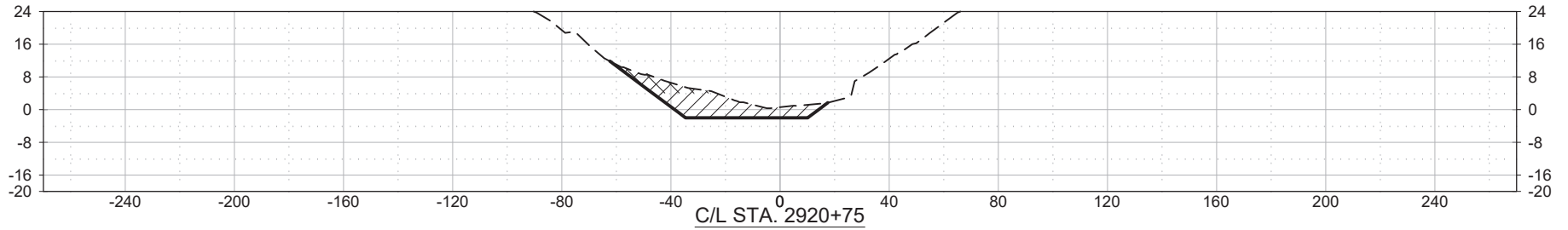
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TYPICAL SEDIMENT TRAP CROSS SECTIONS 11

MISSISSIPPI RIVER WATER RE-INTRODUCTION INTO BAYOU LAFOURCHE, PUMPING CAPACITY IMPROVEMENT PROJECT
 APPLICANT: BAYOU LAFOURCHE FRESH WATER DISTRICT

DONALDSONVILLE, LOUISIANA

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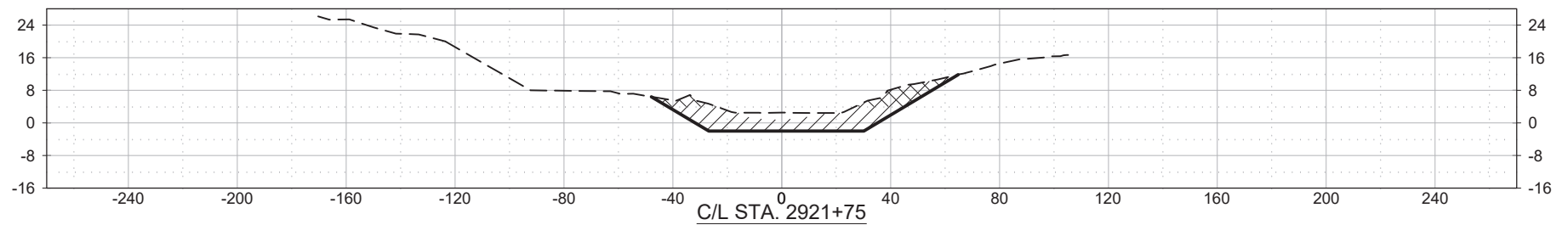
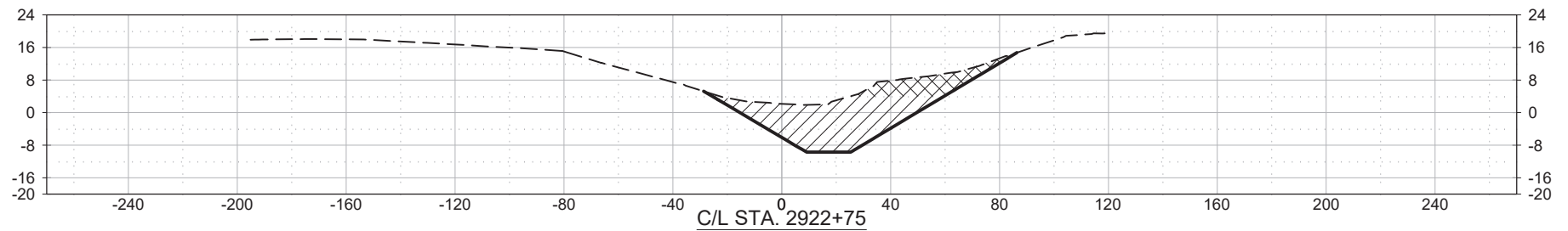
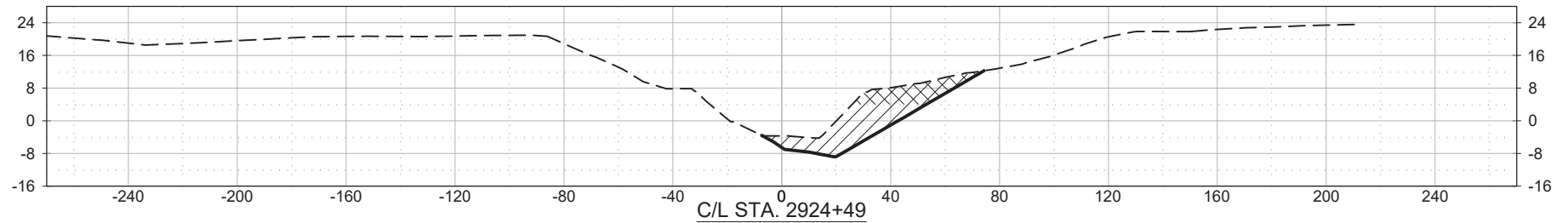
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TYPICAL SEDIMENT TRAP CROSS SECTIONS 12

MISSISSIPPI RIVER WATER RE-INTRODUCTION INTO BAYOU
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APPLICANT: BAYOU LAFOURCHE FRESH WATER DISTRICT

DONALDSONVILLE, LOUISIANA

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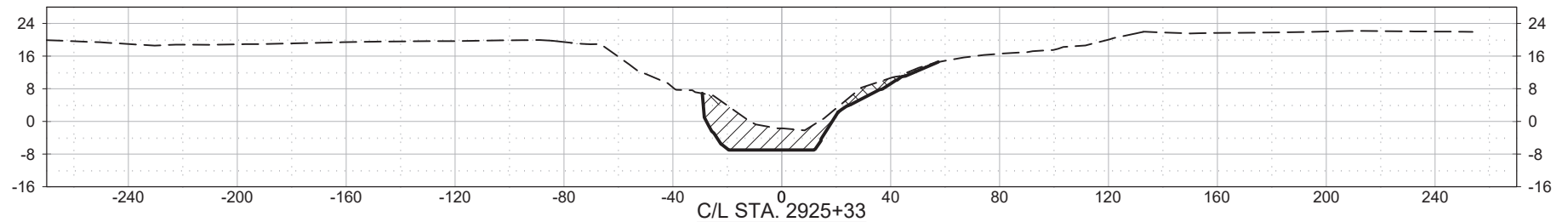
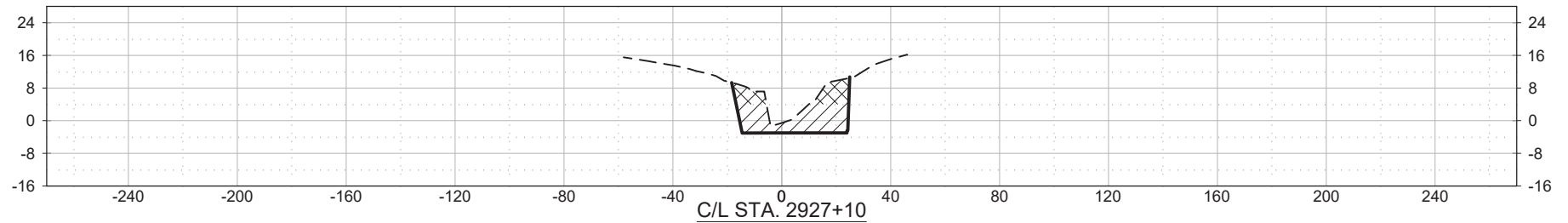
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TYPICAL SEDIMENT TRAP CROSS SECTIONS 13

MISSISSIPPI RIVER WATER RE-INTRODUCTION INTO BAYOU
 LAFOURCHE, PUMPING CAPACITY IMPROVEMENT PROJECT
 APPLICANT: BAYOU LAFOURCHE FRESH WATER DISTRICT

DONALDSONVILLE, LOUISIANA

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NOTES:

1. AS-BUILT DRAWINGS WILL BE SUBMITTED WITHIN 30 DAYS OF COMPLETION OF THIS PROJECT TO THE LOUISIANA DEPARTMENT OF NATURAL RESOURCES, OFFICE OF CONSERVATION, PIPELINE DIVISION, P. O. BOX 94275 BATON ROUGE, LA 70804, AND TO THE LOUISIANA DEPARTMENT OF NATURAL RESOURCES, COASTAL MANAGEMENT DIVISION, P. O. BOX 44487, BATON ROUGE, LA 70804-4487.
2. ALL STRUCTURES, FACILITIES, WELL AND PIPELINES/FLOWLINES OCCURRING IN OPEN WATER AREAS OR IN OILFIELD CANALS OR SLIPS SHALL BE REMOVED WITHIN 120 DAYS OF ABANDONMENT OR THE FACILITIES FOR THE HEREIN PERMITTED USE UNLESS PRIOR WRITTEN APPROVAL TO LEAVE SUCH STRUCTURES IN PLACE IS RECEIVED FROM THE COASTAL MANAGEMENT DIVISION. THIS CONDITION DOES NOT PRECLUDE THE NECESSITY FOR REVISING THE CURRENT PERMIT OR OBTAINING A SEPARATE COASTAL USE PERMIT, SHOULD ONE BE REQUIRED.
3. STRUCTURES MUST ALSO BE MARKED/LIGHTED IN ACCORDANCE WITH U. S. COAST GUARD REGULATIONS.
4. IN ORDER TO ENSURE THE SAFETY OF ALL PARTIES, THE PERMITTEE SHALL CONTACT THE LOUISIANA ONE CALL SYSTEM (1-800-272-3020) A MINIMUM OF 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY EXCAVATION (DIGGING, DREDGING, JETTING, ETC.) OR DEMOLITION ACTIVITY.
5. APPLICANT IS SUBJECT TO ALL APPLICABLE STATE LAWS RELATED TO DAMAGES WHICH ARE DEMONSTRATED TO HAVE BEEN CAUSED BY THIS PROPOSED ACTION.


WETLAND IMPACT SUMMARY		
LOCATION	TEMPORARY WETLAND IMPACTS	PERMANENT WETLAND IMPACTS
BAYOU LAFOURCHE	±0.00 ACRES	±0.69 ACRES
MISSISSIPPI RIVER BATTURE	±2.68 ACRES	±0.39 ACRES
TOTAL	±2.68 ACRES	±1.08 ACRES

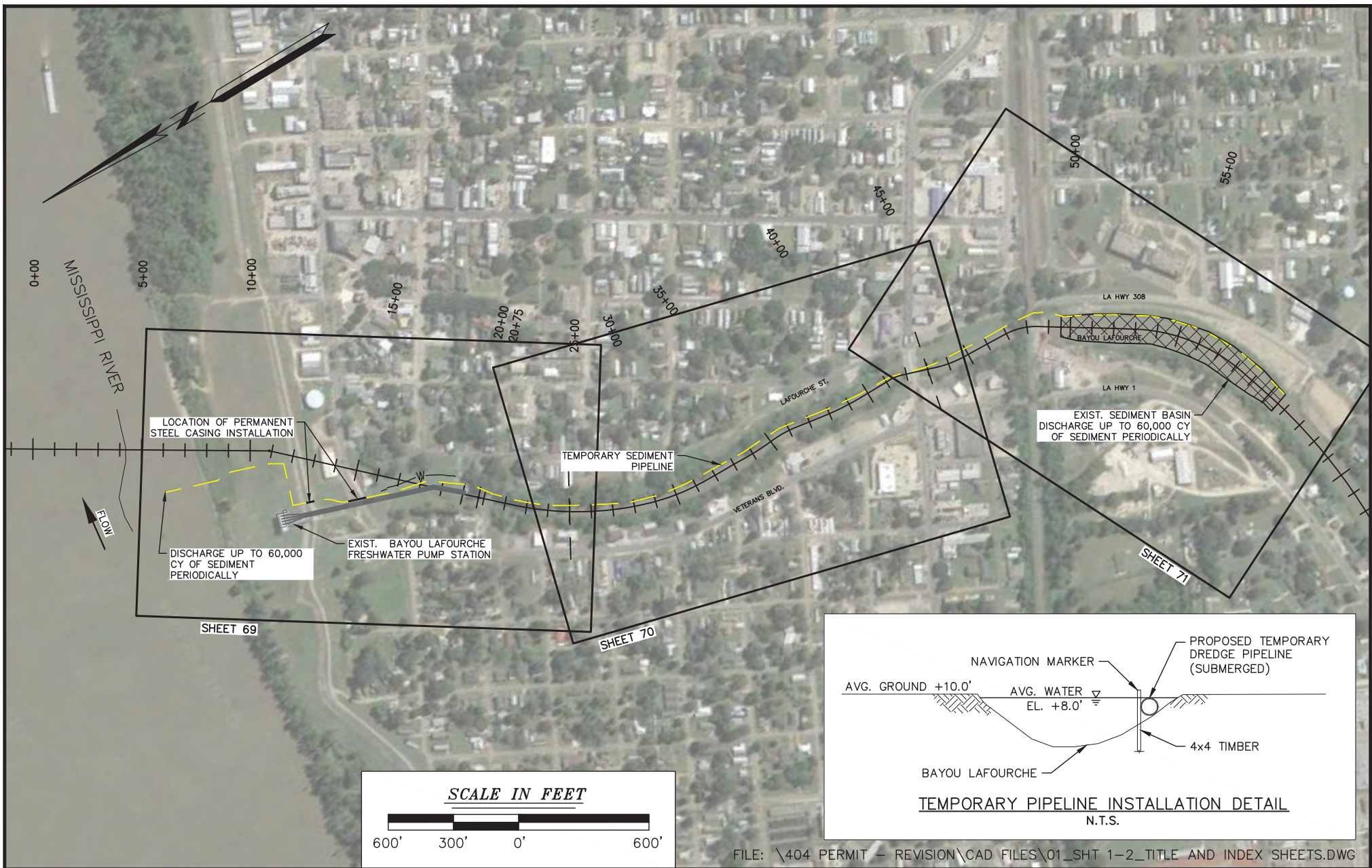
NO.	REVISION	DATE	<p style="text-align: center;">NOTES</p> <p>MISSISSIPPI RIVER WATER RE-INTRODUCTION INTO BAYOU LAFOURCHE, PUMPING CAPACITY IMPROVEMENT PROJECT APPLICANT: BAYOU LAFOURCHE FRESH WATER DISTRICT</p>	 <p>DELTA COAST CONSULTANTS, LLC 4924 HWY 311 - HOUMA, LA 70360 PHONE: 985-655-3100 www.deltacoastllc.com</p>	SCALE SHOWN		
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3	ADDED SEDIMENT PIPELINE DRAWINGS	7/1/19			SHEET NO.	66 OF 75	
			DONALDSONVILLE, LOUISIANA	ASCENSION PARISH	DESIGNED BY	DRAWN BY KSP	CHECKED BY

MISSISSIPPI RIVER WATER RE-INTRODUCTION INTO BAYOU
LAFOURCHE PUMPING CAPACITY IMPROVEMENT PROJECT

PROPOSED OPERATIONAL PLAN FOR PUMP STATION
BAYOU LAFOURCHE FRESH WATER DISTRICT

THE PUMP STATION WILL PUMP AT VARIABLE FLOWS UP TO 1000 CFS INTO BAYOU LAFOURCHE VIA 4 NEW 250 CFS PUMPS TO MAINTAIN A WATER LEVEL OF 9.5 (NAVD 88). 4 SINGLE ELEMENT ULTRASONIC WATER LEVEL SENSORS WILL BE LOCATED AT THE RONDINAUD LN. BRIDGE, DISCHARGE BOX, MARCHAND BRIDGE, AND RAILROAD BRIDGE TO MAINTAIN THE BAYOU LAFOURCHE WATER ELEVATION OF 9.5 (NAVD 88).

NO.	REVISION	DATE	OPERATIONAL PLAN		 <p>DELTA COAST CONSULTANTS, LLC 4924 HWY 311 - HOUMA, LA 70360 PHONE: 985-655-3100 www.deltacoastllc.com</p>	SCALE SHOWN	
1	REVISED PER COMMENTS	2/6/19	MISSISSIPPI RIVER WATER RE-INTRODUCTION INTO BAYOU LAFOURCHE, PUMPING CAPACITY IMPROVEMENT PROJECT APPLICANT: BAYOU LAFOURCHE FRESH WATER DISTRICT				DATE 08/01/2018
2	REVISED PER COMMENTS	6/3/19					PROJECT 2016.045
3	ADDED SEDIMENT PIPELINE DRAWINGS	7/1/19					SHEET NO. 67 OF 75
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OVERALL PLAN VIEW SEDIMENT PIPELINE

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 APPLICANT: BAYOU LAFOURCHE FRESH WATER DISTRICT

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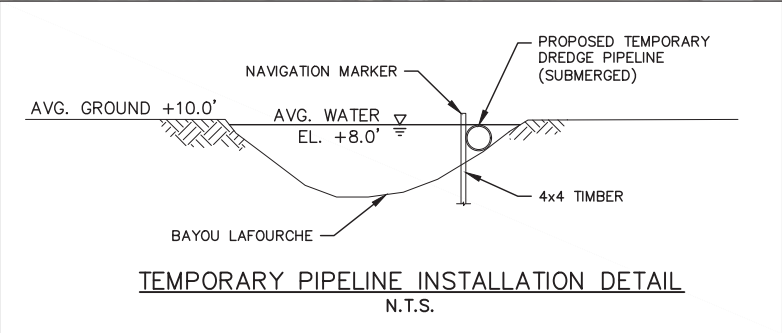
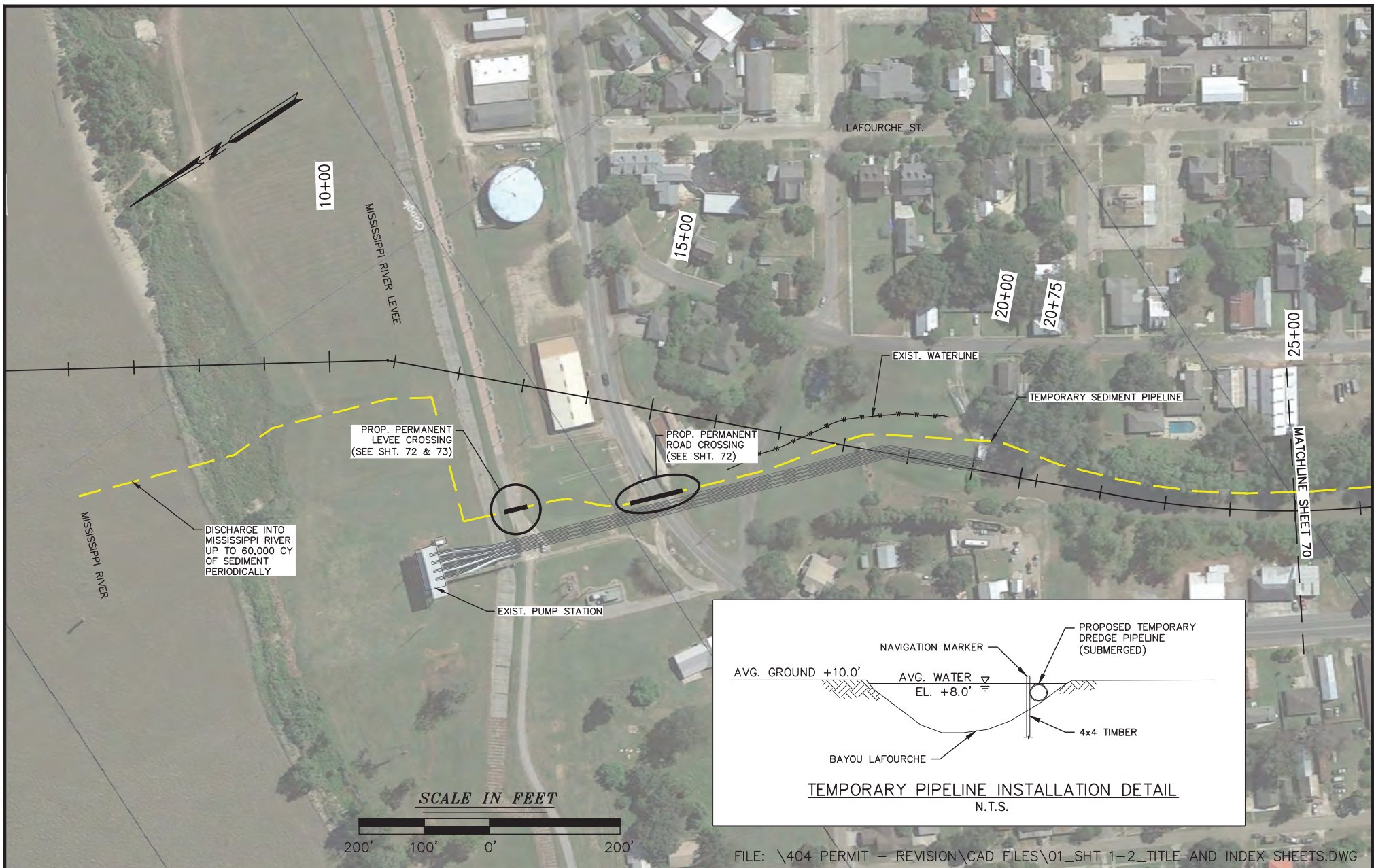
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PLAN VIEW

MISSISSIPPI RIVER WATER RE-INTRODUCTION INTO BAYOU LAFOURCHE, PUMPING CAPACITY IMPROVEMENT PROJECT
 APPLICANT: BAYOU LAFOURCHE FRESH WATER DISTRICT

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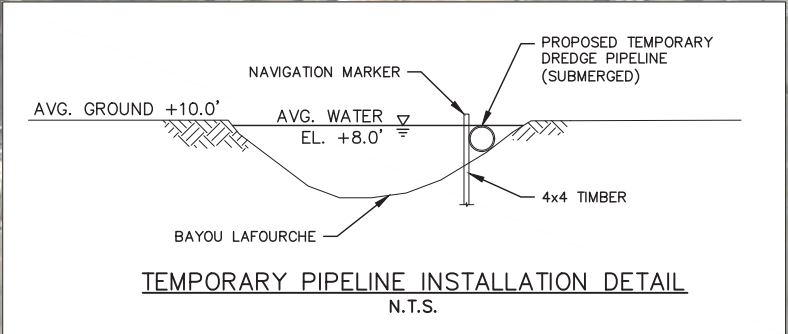
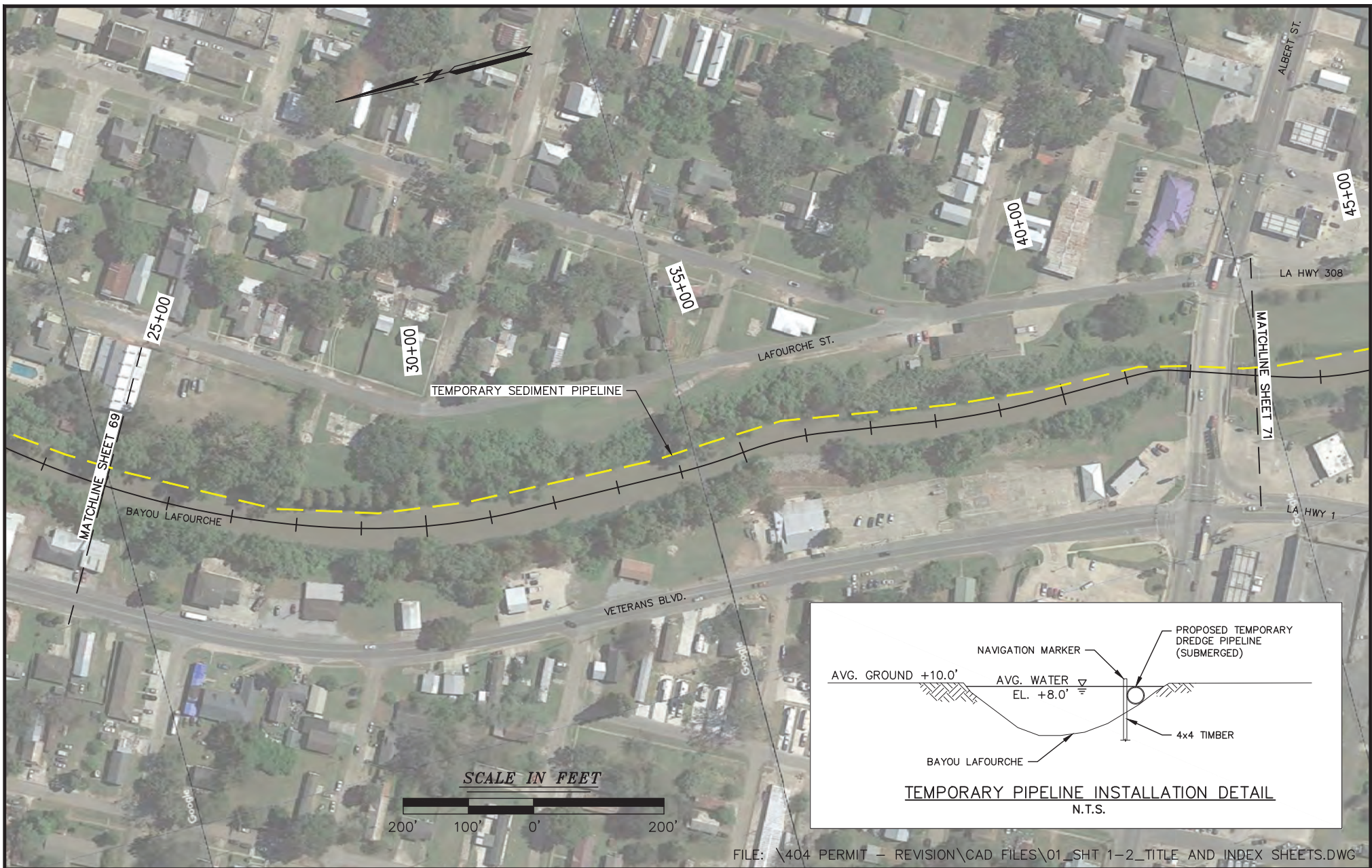
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PLAN VIEW

MISSISSIPPI RIVER WATER RE-INTRODUCTION INTO BAYOU LAFOURCHE, PUMPING CAPACITY IMPROVEMENT PROJECT
 APPLICANT: BAYOU LAFOURCHE FRESH WATER DISTRICT

DONALDSONVILLE, LOUISIANA ASCENSION PARISH



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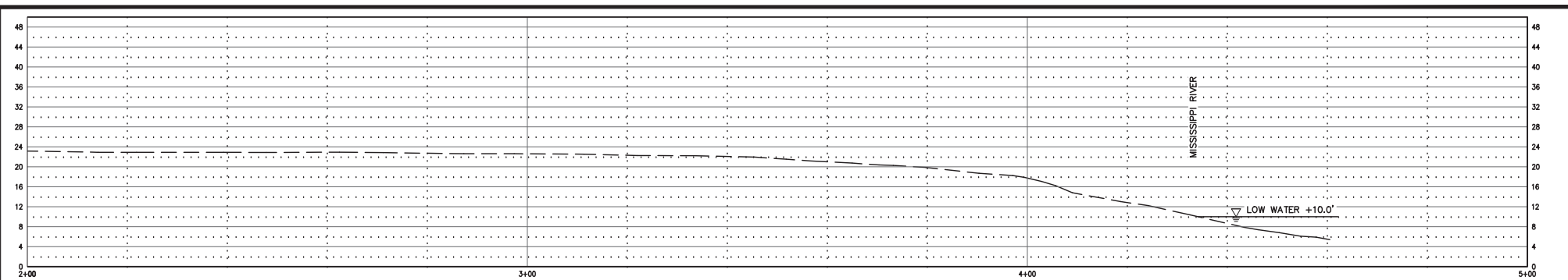
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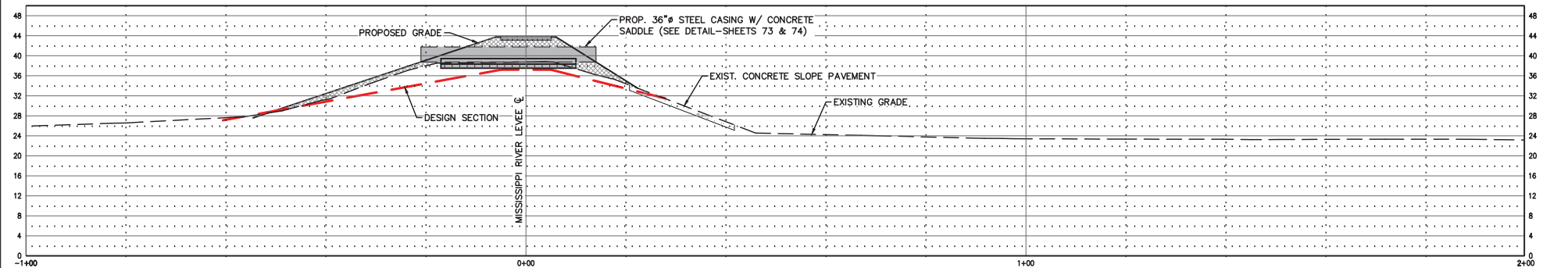
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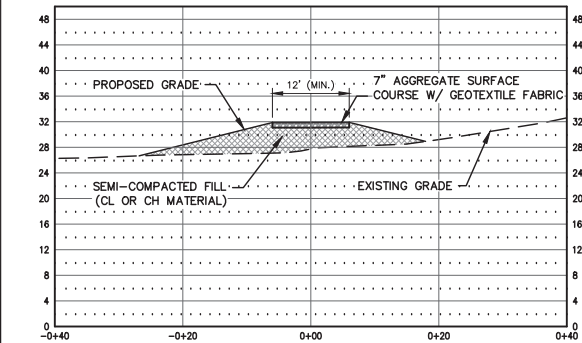
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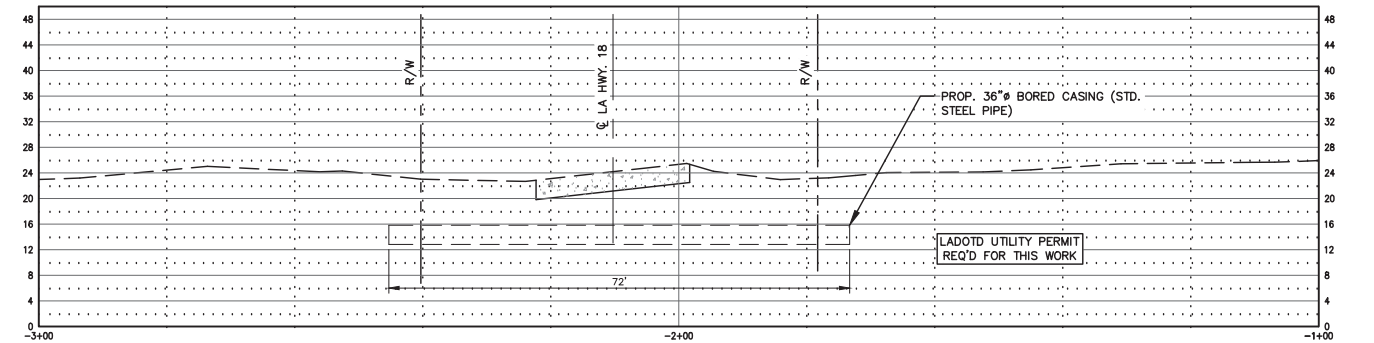
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SCALE: 1" = 30'



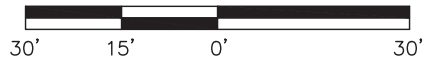
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CROSS SECTION "C"
SCALE: 1" = 30'



CROSS SECTION "A"
SCALE: 1" = 30'



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2	REVISED PER COMMENTS	6/3/19
3	ADDED SEDIMENT PIPELINE DRAWINGS	7/1/19

CROSS SECTIONS

MISSISSIPPI RIVER WATER RE-INTRODUCTION INTO BAYOU
LAFOURCHE, PUMPING CAPACITY IMPROVEMENT PROJECT
APPLICANT: BAYOU LAFOURCHE FRESH WATER DISTRICT

DONALDSONVILLE, LOUISIANA ASCENSION PARISH



**DELTA COAST
CONSULTANTS, LLC**

4924 HWY 311 - HOUMA, LA 70360

PHONE: 985-655-3100 www.deltacoastllc.com

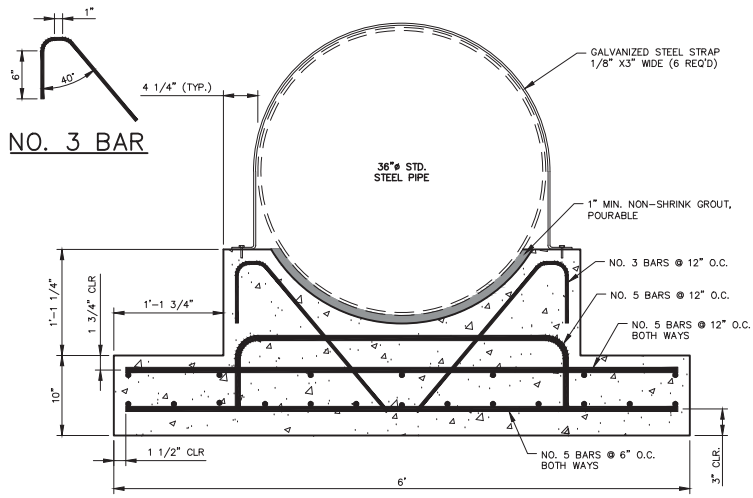
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CONCRETE PIPE SADDLE

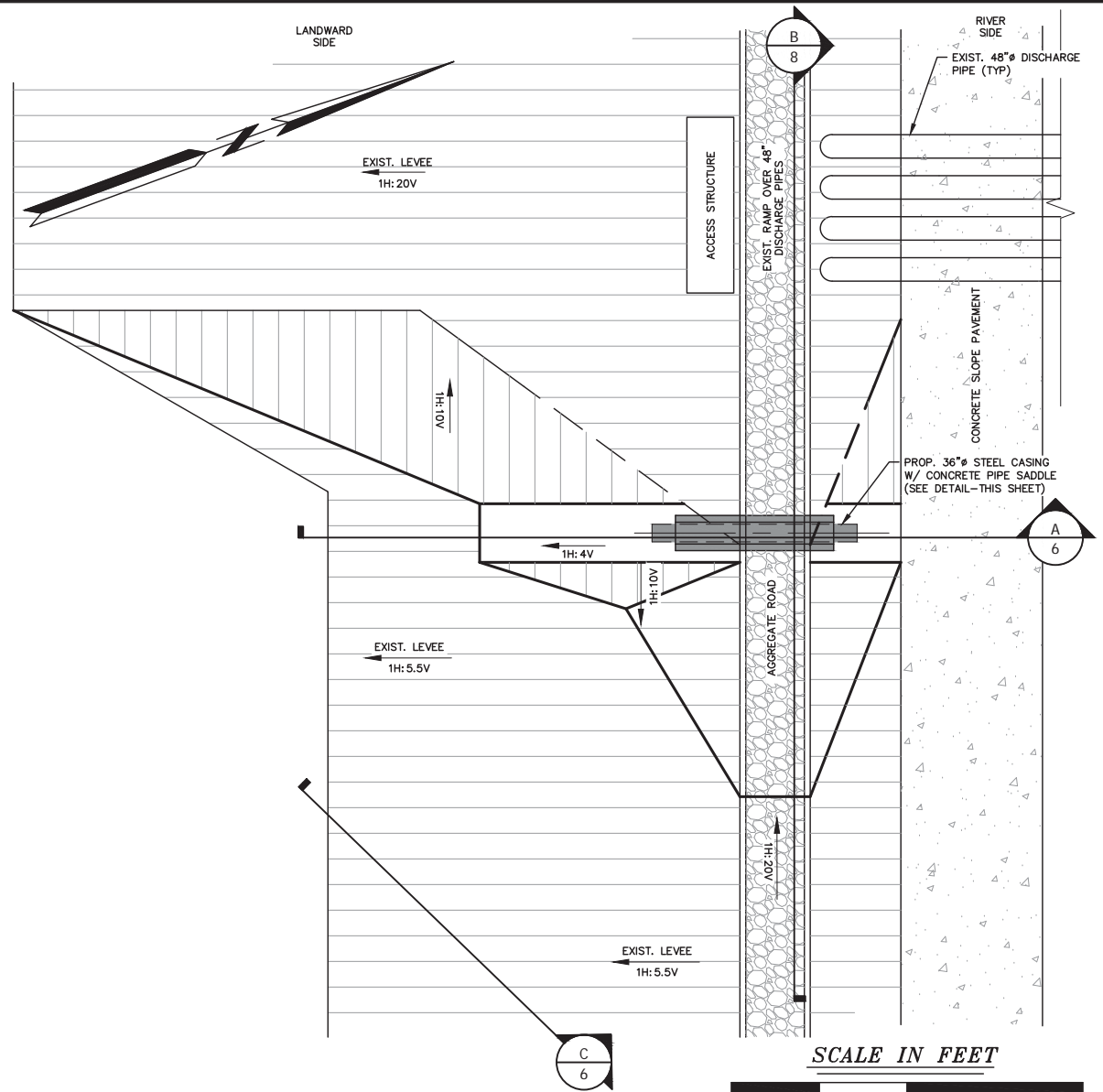
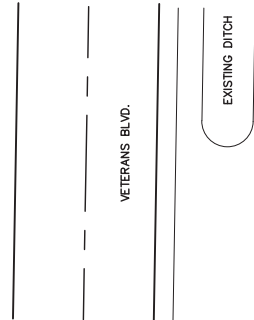
SCALE: 1/2" = 1'-0"

SADDLE NOTES:

1. PIPE TO BE NEON WHITE BLASTED INSIDE AND OUT.
2. PIPE SHALL BE PAINTED WITH ZINC PRIMER (4 MILS) & TWO COATS OF COAL TAR EPOXY, (16 MILS TOTAL) INSIDE AND OUT.
3. PIPE SHALL BE FITTED WITH FLANGED ENDS AND A PLUG PROVIDED FOR EACH END. PREPARED AND PAINTED PER NO'S 1 & 2.

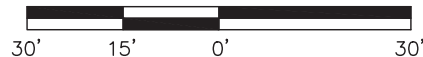
NOTES:

1. ALL DISTURBED TURFED AREAS SHALL BE TURFED WITH BERMUDA GRASS OR AN APPROVED MIX. THE TURFING SHALL INCLUDE FERTILIZING, MULCHING, AND WATERING WHERE NEEDED.
2. THE LEVEE CROWN RAMP OVER THE CASING SHALL BE SURFACED WITH CRUSHED STONE. THE SURFACING SHALL BE A MINIMUM OF 6 INCHES THICK, COMPACTED.
3. FILL MATERIAL USED IN CONSTRUCTION OF CASING COVER SHALL BE SIMILAR TO MATERIAL IN EXISTING LEVEE SECTION.
4. THE CASING SHALL BE PLACED ABOVE DESIGN SECTION OF LEVEE AND BERMS AT LOCATION OF THE CROSSING. EXISTING SURFACE OF BERM IS DESIGN SURFACE.
5. AREAS TO RECEIVE COVER SHALL HAVE EXISTING SURFACING OR TURF REMOVED PRIOR TO SCARIFYING AND PLACING OF COVER MATERIAL.



LEVEE CROSSING PLAN VIEW

SCALE: 1" = 30'



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LEVEE CROSSING PLAN & DETAILS

MISSISSIPPI RIVER WATER RE-INTRODUCTION INTO BAYOU LAFOURCHE, PUMPING CAPACITY IMPROVEMENT PROJECT
 APPLICANT: BAYOU LAFOURCHE FRESH WATER DISTRICT

DONALDSONVILLE, LOUISIANA ASCENSION PARISH



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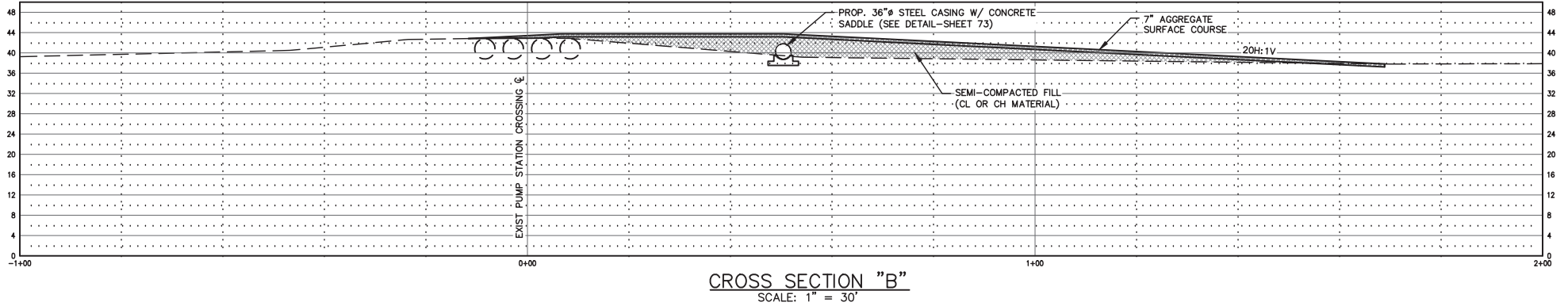
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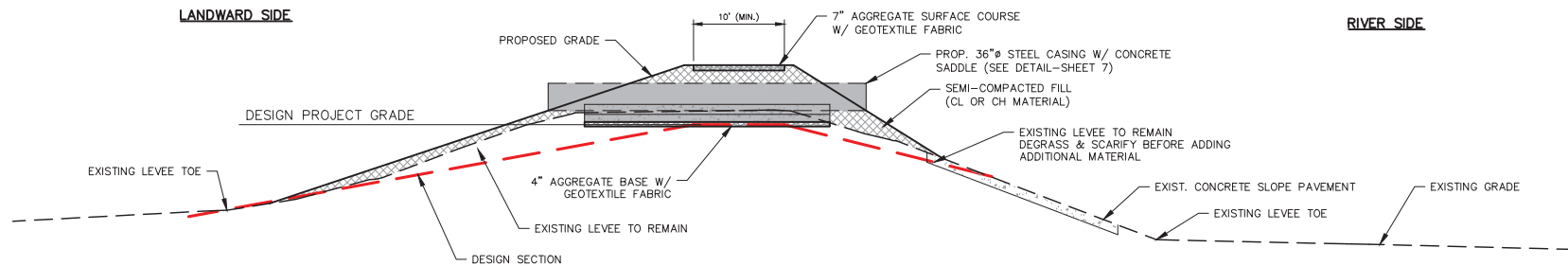
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CROSS SECTION "B"
SCALE: 1" = 30'



LEVEE CROSSING DETAIL
SCALE: 1" = 20'

NOTE:
• ALL DISTURBED AREAS TO BE SEEDED AND FERTILIZED UPON COMPLETION

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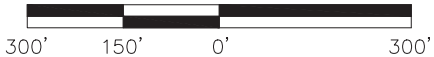
NO.	REVISION	DATE	<p align="center">CROSS SECTION</p> <p align="center">MISSISSIPPI RIVER WATER RE-INTRODUCTION INTO BAYOU LAFORCHE, PUMPING CAPACITY IMPROVEMENT PROJECT APPLICANT: BAYOU LAFORCHE FRESH WATER DISTRICT</p>		 <p>DELTA COAST CONSULTANTS, LLC 4924 HWY 311 - HOUMA, LA 70360</p>	SCALE
1	REVISED PER COMMENTS	2/6/19				PHONE: 985-655-3100
2	REVISED PER COMMENTS	6/3/19	DESIGNED BY	DRAWN BY TAA	CHECKED BY	DATE 08/01/2018
3	ADDED SEDIMENT PIPELINE DRAWINGS	7/1/19	DONALDSONVILLE, LOUISIANA		ASCENSION PARISH	PROJECT 2016.045
						SHEET NO. 74 OF 75



APPROXIMATE PARCEL INFORMATION AS OF 7/10/17

ID	PARCEL #	PRIMARY OWNER
1	10010500	BAYOU LAFOURCHE FRESH WATER DISTRICT
2	54900	ERIC ROBINSON
3	102800	GEORGE LAUVE
4	28200	LEORGO, LLC
5	10014300	BAYOU LAFOURCHE FRESH WATER DISTRICT
6	156800	WILKINS SONNIER
7	20000903	BAYOU LAFOURCHE FRESH WATER DISTRICT
8	1020400	WILKINS SONNIER
9	701504	CAPITAL AREA LEGAL SERVICES CORP.
10	701501	FOLSE ENTERPRISE, LLC
11	10014700	CITY OF DONALDSONVILLE
12	123300	MICHAEL MISTRETTA
13	17600	AUGUST BRADFORD
14	18000	KEITH BRADFORD
15	N/A	PEOPLE'S WATER COMPANY
16	N/A	TOWN OF DONALDSONVILLE
17	812400	GAIL ANN INZERILLA
18	812400	GAIL ANN INZERILLA
19	N/A	CITY OF DONALDSONVILLE

SCALE IN FEET



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LANDRIGHTS MAP

MISSISSIPPI RIVER WATER RE-INTRODUCTION INTO BAYOU LAFOURCHE, PUMPING CAPACITY IMPROVEMENT PROJECT
 APPLICANT: BAYOU LAFOURCHE FRESH WATER DISTRICT

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