

# JOINT PUBLIC NOTICE

February 8, 2016

United States Army Corps of Engineers  
New Orleans District  
Regulatory Branch  
Post Office Box 60267  
New Orleans, Louisiana 70160-0267

State of Louisiana  
Department of Environmental Quality  
Office of Environmental Services  
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 2014-00940-CG

(225) 219-3225  
Project Manager  
Elizabeth Hill  
WQC Application Number  
WQC # 160128-03

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.

## **SHIP AND BARGE DOCK AND HEAVY HAUL DOCK WITH WATER INTAKE STRUCTURES IN MISSISSIPPI RIVER IN ST. JAMES PARISH**

**NAME OF APPLICANT:** Yuhuang Chemical Inc, c/o Lanier & Associates, 4101 Magazine Street, New Orleans, Louisiana 70115.

**LOCATION OF WORK:** In the Mississippi River, Right Descending Bank, River Mile 157.5, at 5327 St. James Co-Op Road, St. James, Louisiana in St. James Parish within the Mississippi River Basin in hydrologic unit (HUC 08070100), as shown on the attached drawings (Latitude 29.99682 N, Longitude -90.835628 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 a methanol plant facility with a barge and ship dock and a heavy haul road and barge dock to include two water intake structures, two levee crossings, a boat ramp, underground pipelines and an elevated piperack. The maximum extent of the structures is proposed to be 731 linear feet channelward from the crown of the levee. Approximately 65,723 cubic yards will be excavated and backfilled and approximately 160,692 total cubic yards of fill material including gravel, rock, sand and soil would be hauled in and deposited to achieve required grade elevation requirements. The proposed project is situated on an approximately 1,000-acre tract of which 14.8 acres have been determined to be forested wetlands with approximately 49,000 linear feet Waters of the U.S. It is anticipated that the proposed action would impact traditionally navigable waters and jurisdictional wetlands and Waters of the U.S. **A preliminary analysis has determined that the proposed project would directly impact 1.79 acres of**

## **forested wetlands and 1.15 acres Waters of the U.S.**

It is presumed that the applicant has designed the project to avoid and minimize direct and secondary adverse impacts to the maximum extent practicable. Any further reduction would limit usage of the property and function, deeming the project impracticable. As compensation for unavoidable wetland impacts, the applicant proposes to mitigate in-kind wetland credits from a Corps approved mitigation bank located in the watershed.

The comment period for the Department of Army will close in **30 days** from the date of this 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 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.

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.

The New Orleans District has determined that the proposed project is located in waters known to be utilized by the Pallid Sturgeon (*Scaphirhynchus albus*). 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 with the inclusion of the Project Recommendations For Intake Structures, proposed work is not likely to adversely affect the Pallid Sturgeon.

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.

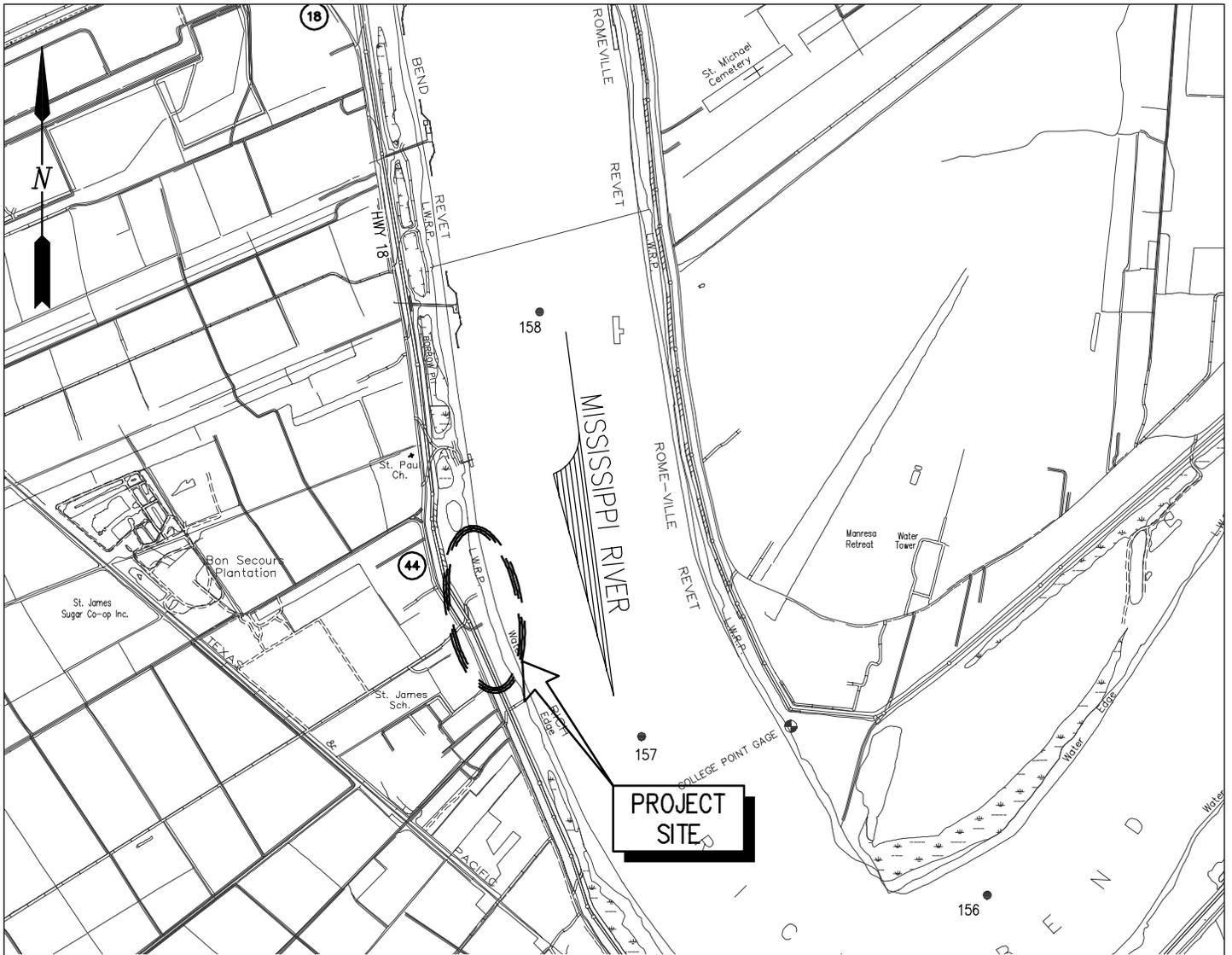
If the proposed work involves deposits of dredged or fill material into navigable waters, the evaluation of the probable impacts will include the application of guidelines established by the Administrator of the Environmental Protection Agency. Also, a certification that the proposed activity will not 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 P20150795). 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.

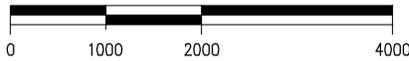
JOHN M. HERMAN  
Chief, Central Evaluation Section  
Regulatory Branch

Enclosures



**VICINITY MAP**

GRAPHIC SCALE IN FEET



**GENERAL NOTES**

1. AS-BUILT DRAWINGS AND/OR PLANS SHALL HAVE WRITTEN ON THEM THE DATE OF COMPLETION OF SAID ACTIVITIES AND SHALL BE SUBMITTED TO THE LOUISIANA DEPARTMENT OF NATURAL RESOURCES, OFFICE OF COASTAL MANAGEMENT, P. O. BOX 44487, BATON ROUGE, LA 70804-4487 WITHIN 30 DAYS FOLLOWING PROJECT COMPLETION.
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 OF 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. ALL ELEVATIONS REFER TO NGVD 29 UNLESS NOTED OTHERWISE.



**VICINITY**

**AREA MAP**

ST. JAMES PARISH  
 LATITUDE: 29° 59' 32.67" N  
 LONGITUDE: 90° 50' 02.12" W

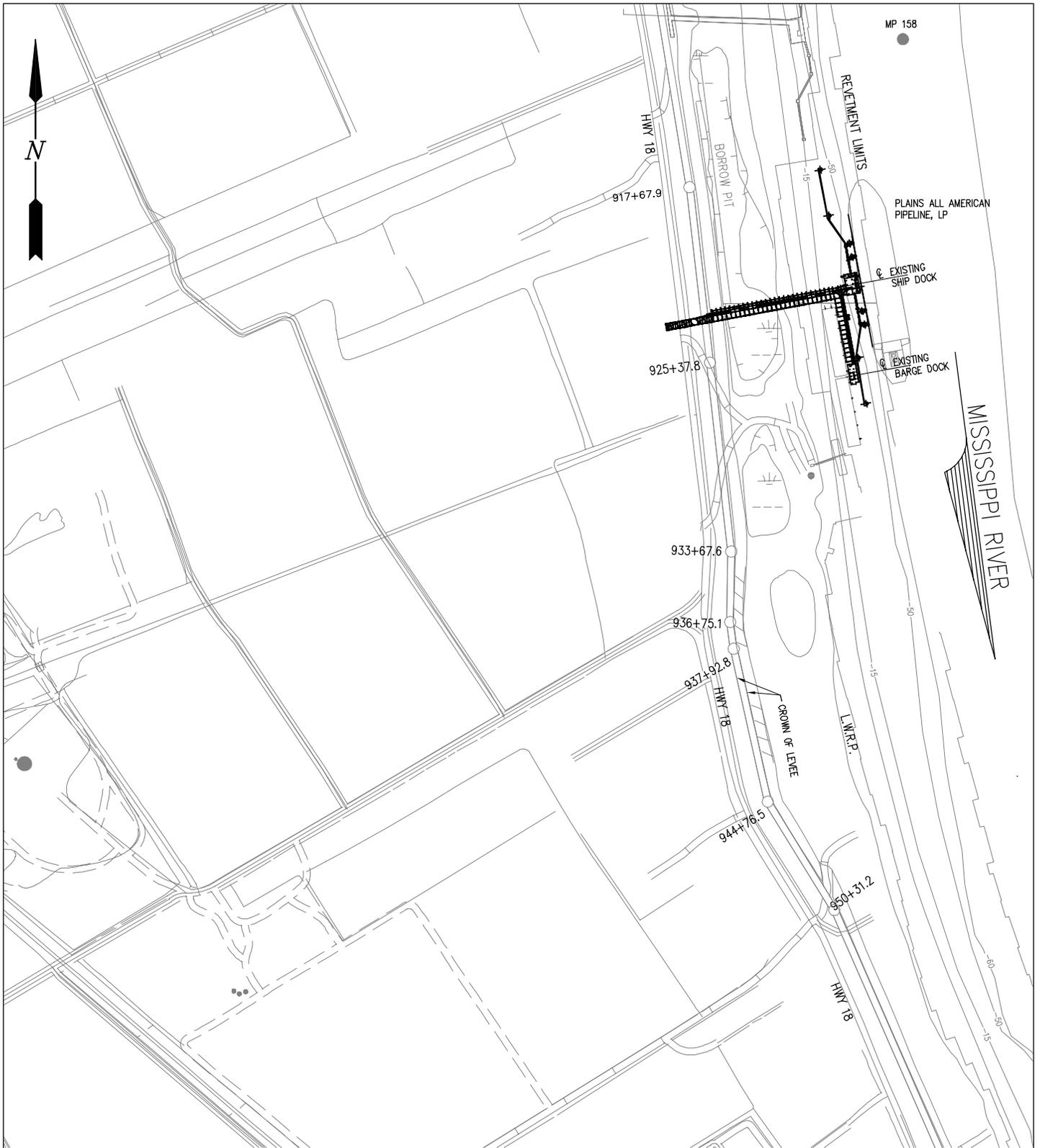
9906-P1

**LANIER & ASSOCIATES**  
 CONSULTING ENGINEERS  
 INCORPORATED  
 NEW ORLEANS, LA · BEAUMONT, TX

**YUHUANG CHEMICAL INC.**  
 ST. JAMES LOUISIANA

**PROPOSED NEW MARINE FACILITY**  
**VICINITY MAP, AREA MAP AND GENERAL NOTES**

DATE	08/15
DESIGN	CLO
DRAWN	MEW
CHECK	EJ
CONTRACT	9906
SHEET No.	1 OF 26



**EXISTING SITE PLAN**

SCALE: 1"=600'



9906-P2



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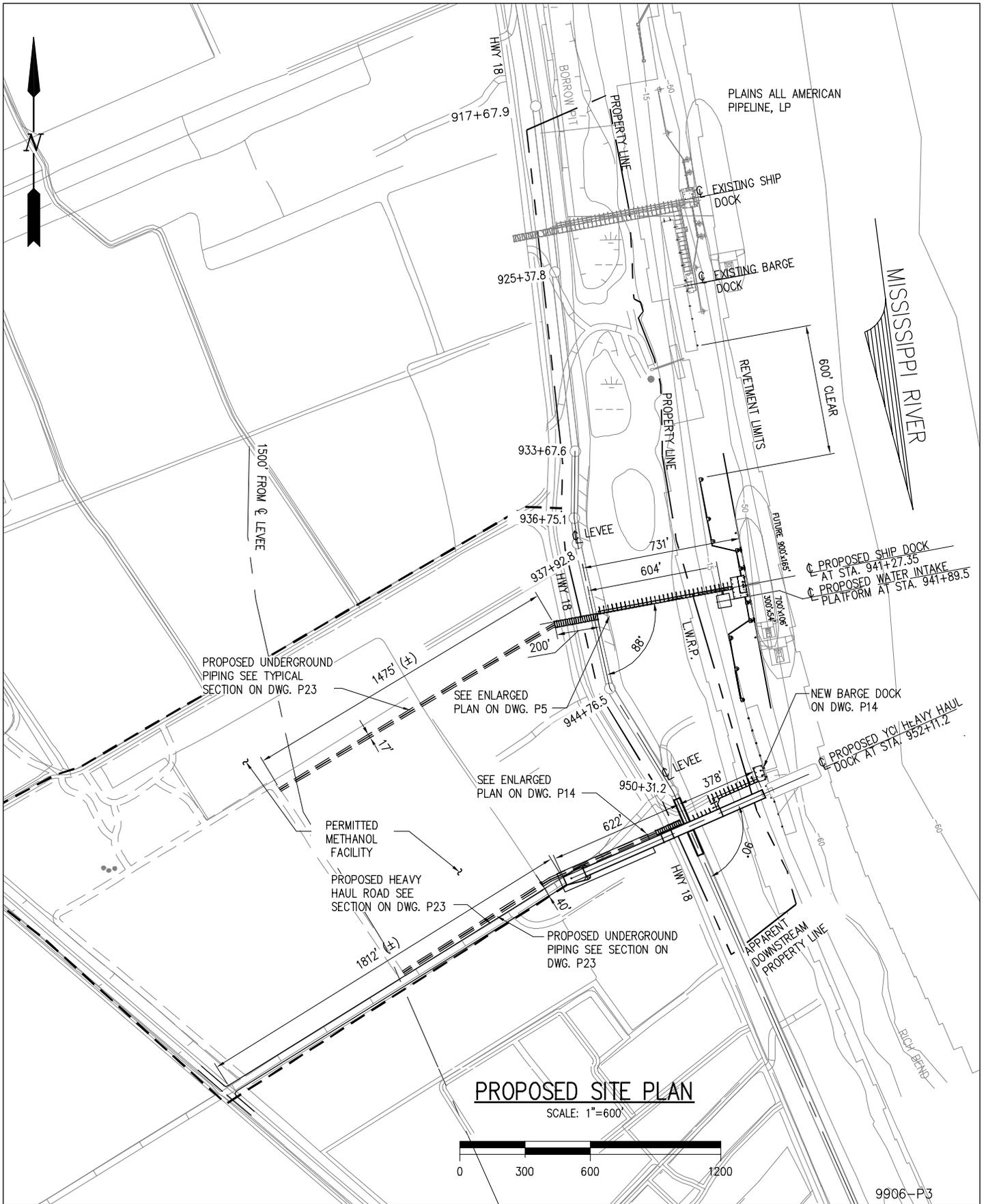
LOUISIANA

**PROPOSED NEW MARINE FACILITY**

**EXISTING SITE PLAN**

DATE 08/15  
DESIGN CLO  
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CONTRACT 9906  
SHEET No.

**2** OF **26**



**PROPOSED SITE PLAN**

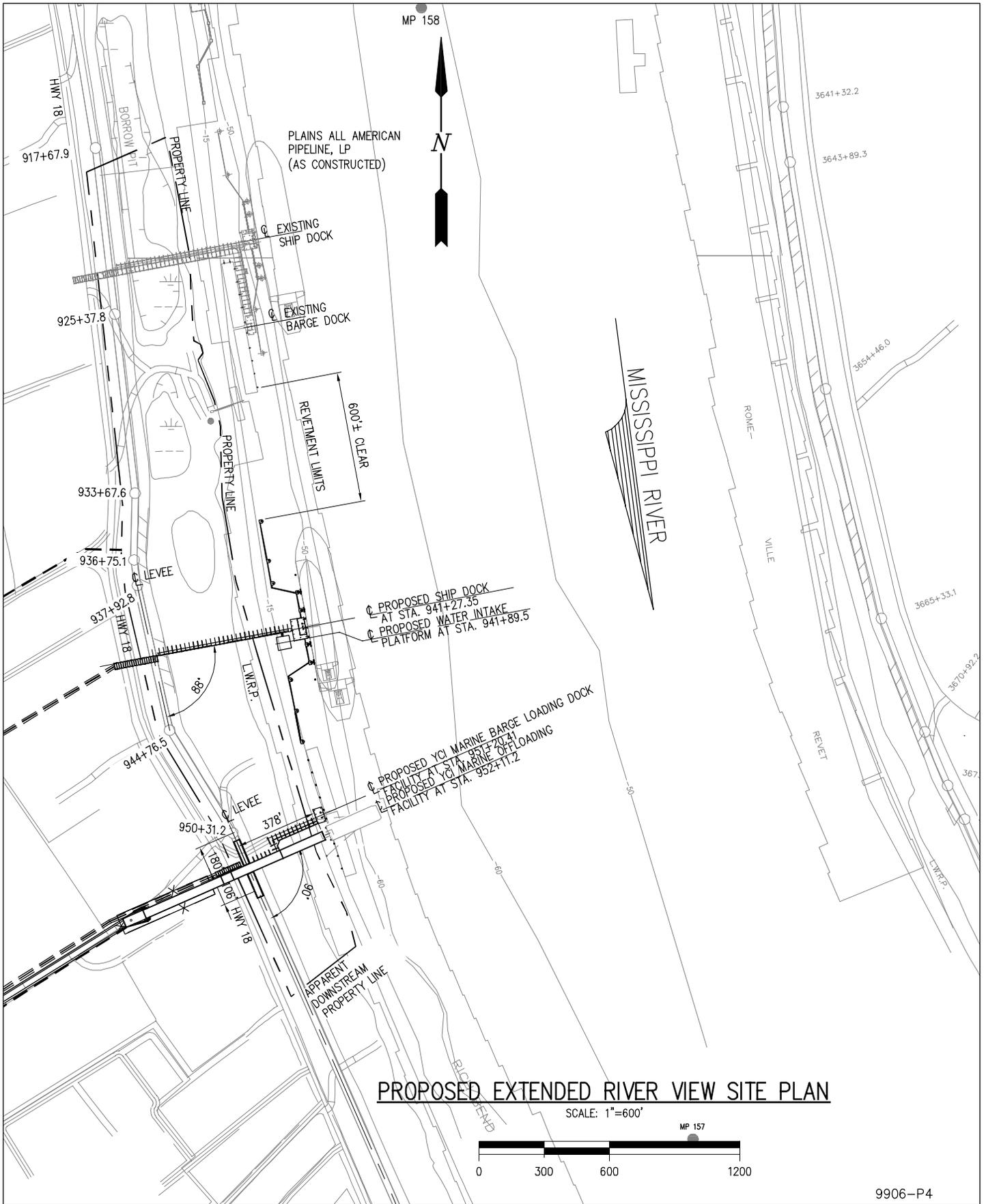
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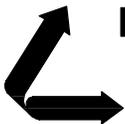
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ST. JAMES	<b>YUHUANG CHEMICAL INC.</b>	LOUISIANA
<b>PROPOSED NEW MARINE FACILITY</b>		
<b>PROPOSED SITE PLAN</b>		
DATE 08/15		DESIGN CLO
DRAWN MEW		CHECK JEJ
CONTRACT 9906		SHEET No.
<b>3</b>		<b>OF 26</b>



9906-P4



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**PROPOSED NEW MARINE FACILITY**

**PROPOSED EXTENDED RIVER VIEW SITE PLAN**

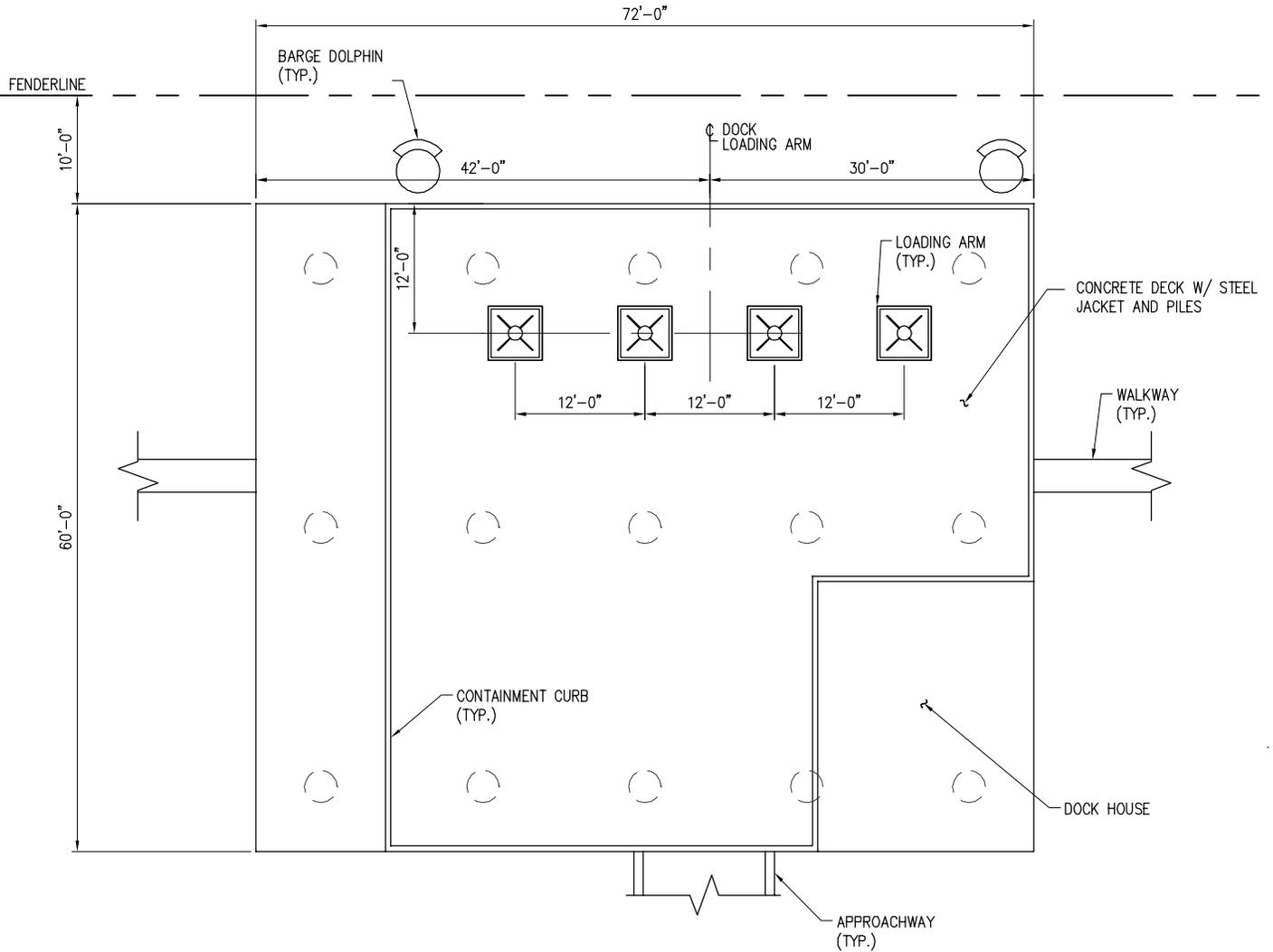
DATE 08/15  
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DRAWN MEW  
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MISSISSIPPI RIVER



### SHIP DOCK ENLARGED PLATFORM PLAN

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



9906-P6



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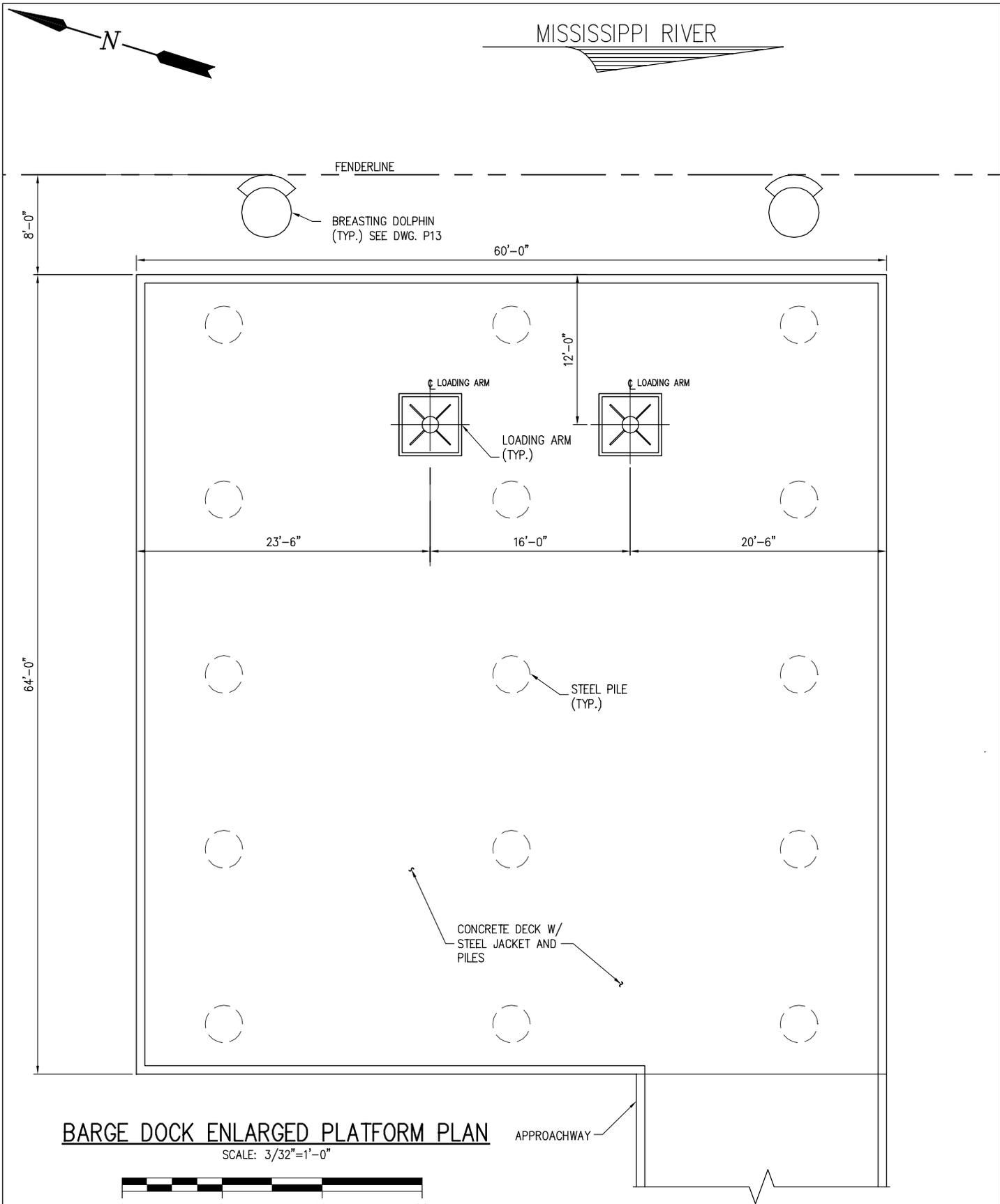
**YUHUANG CHEMICAL INC.**  
 ST. JAMES LOUISIANA

**PROPOSED NEW MARINE FACILITY**

**SHIP DOCK ENLARGED PLATFORM PLAN**

DATE 08/15  
 DESIGN CLO  
 DRAWN MEW  
 CHECK JEJ  
 CONTRACT 9906  
 SHEET No.

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**BARGE DOCK ENLARGED PLATFORM PLAN**

SCALE: 3/32"=1'-0"



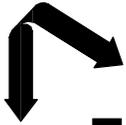
**BARGE DOCK ENLARGED PLATFORM PLAN**

9906-P7

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 ST. JAMES LOUISIANA  
**PROPOSED NEW MARINE FACILITY**  
**BARGE DOCK ENLARGED PLATFORM PLAN**

DATE	08/15
DESIGN	CLO
DRAWN	MEW
CHECK	JEJ
CONTRACT	9906
SHEET No.	7 OF 26



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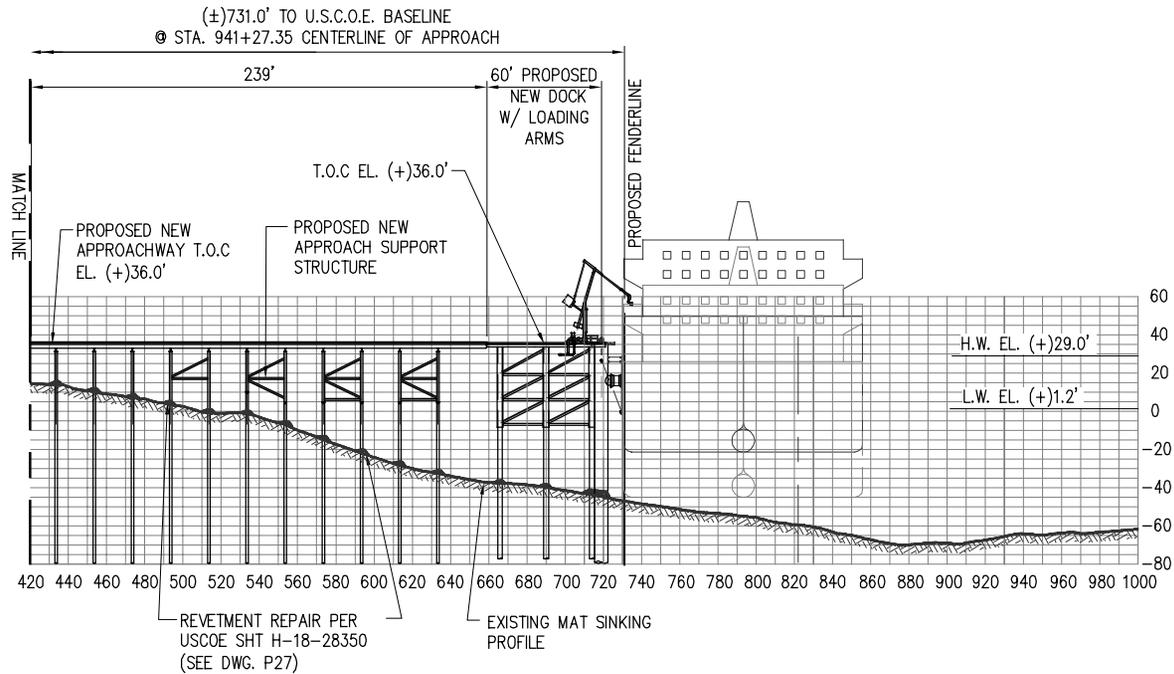
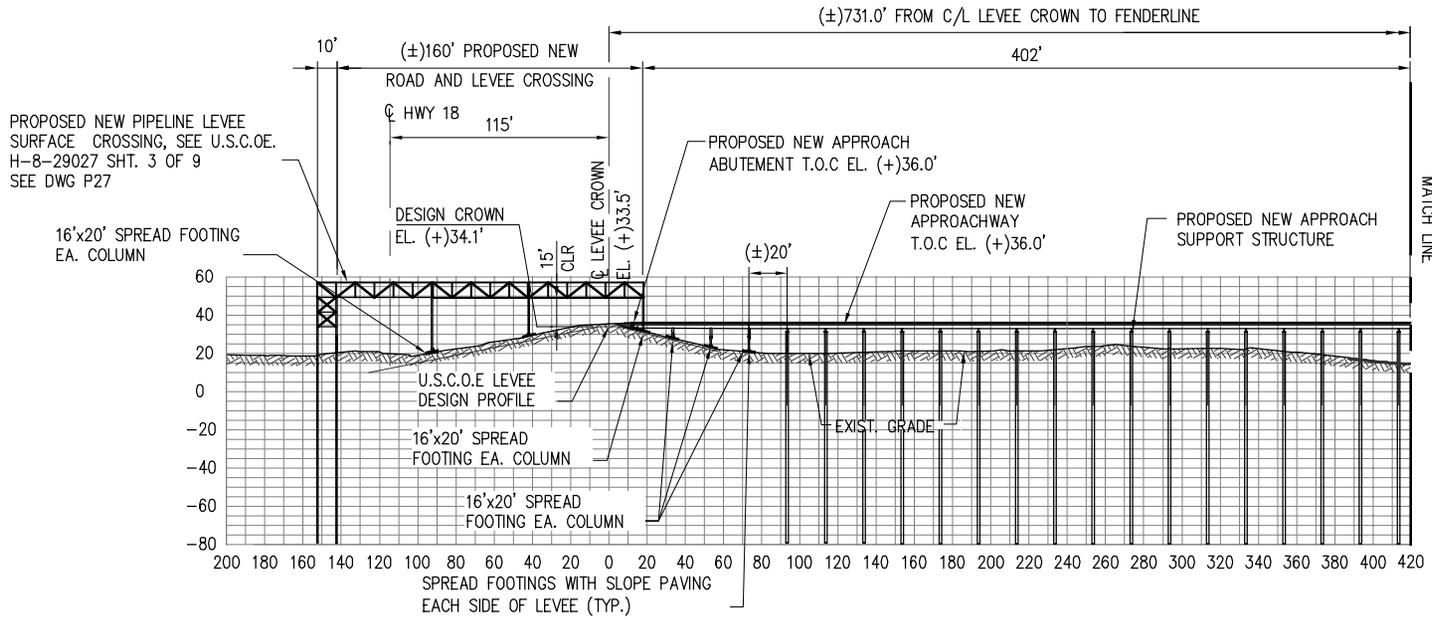
**YUHUANG CHEMICAL INC.**

LOUISIANA

**PROPOSED NEW MARINE FACILITY**  
**SHIP DOCK LEVEL CROSSING ELEVATION**

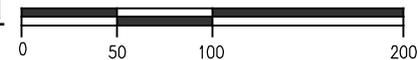
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SHEET NO. **8** OF **26**

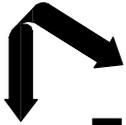
9906-P8



**SHIP DOCK LEVEL CROSSING ELEVATION**

SCALE: 1"=100'





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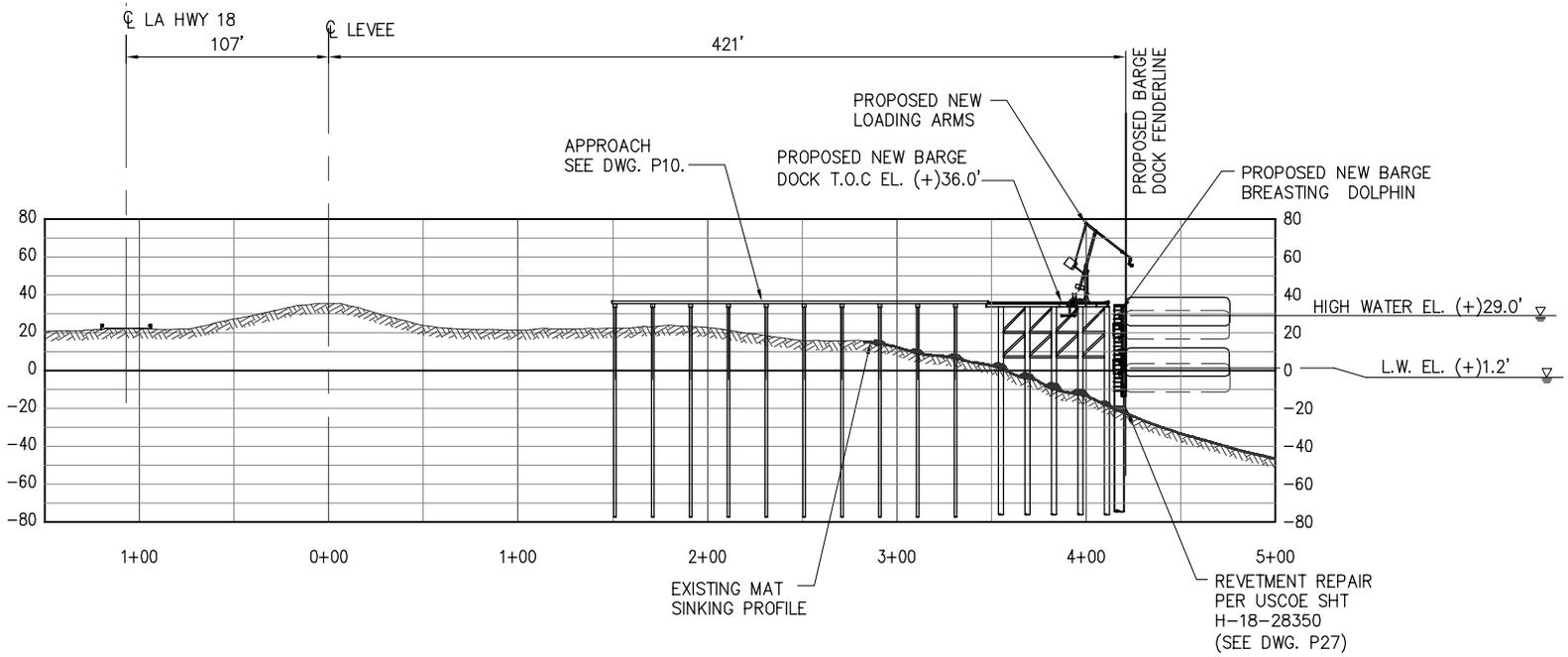
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**YUHUANG CHEMICAL INC.**

LOUISIANA

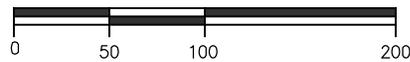
**PROPOSED NEW MARINE FACILITY**

**TYPICAL BARGE DOCK ELEVATION**



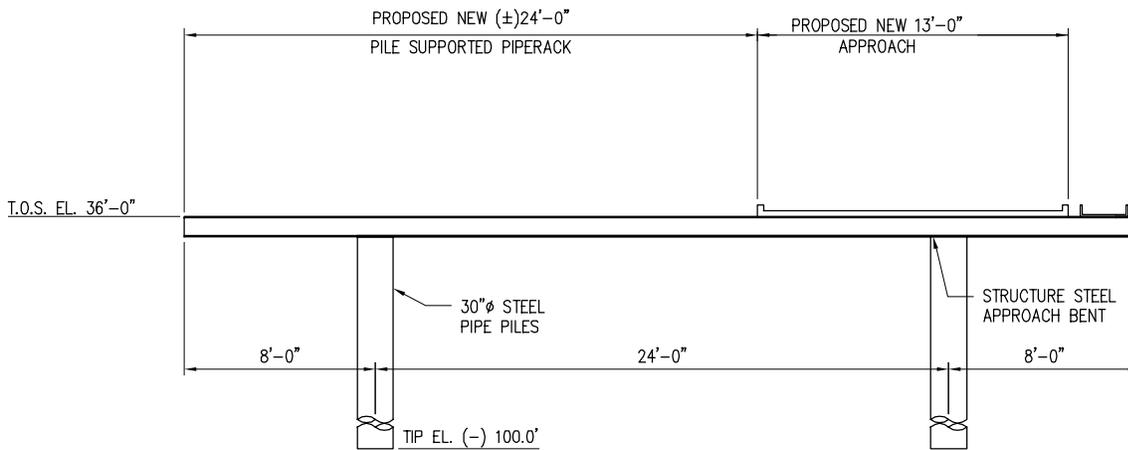
**TYPICAL BARGE DOCK ELEVATION**

SCALE: 1"=100'



9906-P9

DATE 08/15  
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DRAWN MEW  
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CONTRACT 9906  
SHEET NO. **9** OF **26**



**TYPICAL SHIP DOCK AND BARGE DOCK APPROACH**

SCALE: 1/8"=1'-0"



9906-P10



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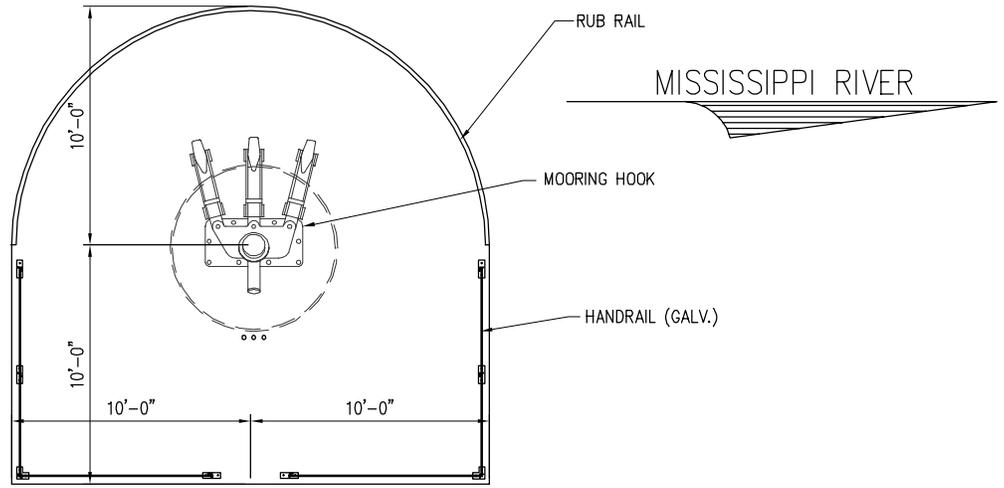
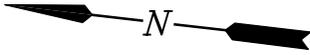
LOUISIANA

**PROPOSED NEW MARINE FACILITY**

**TYPICAL SHIP AND BARGE DOCK APPROACHES**

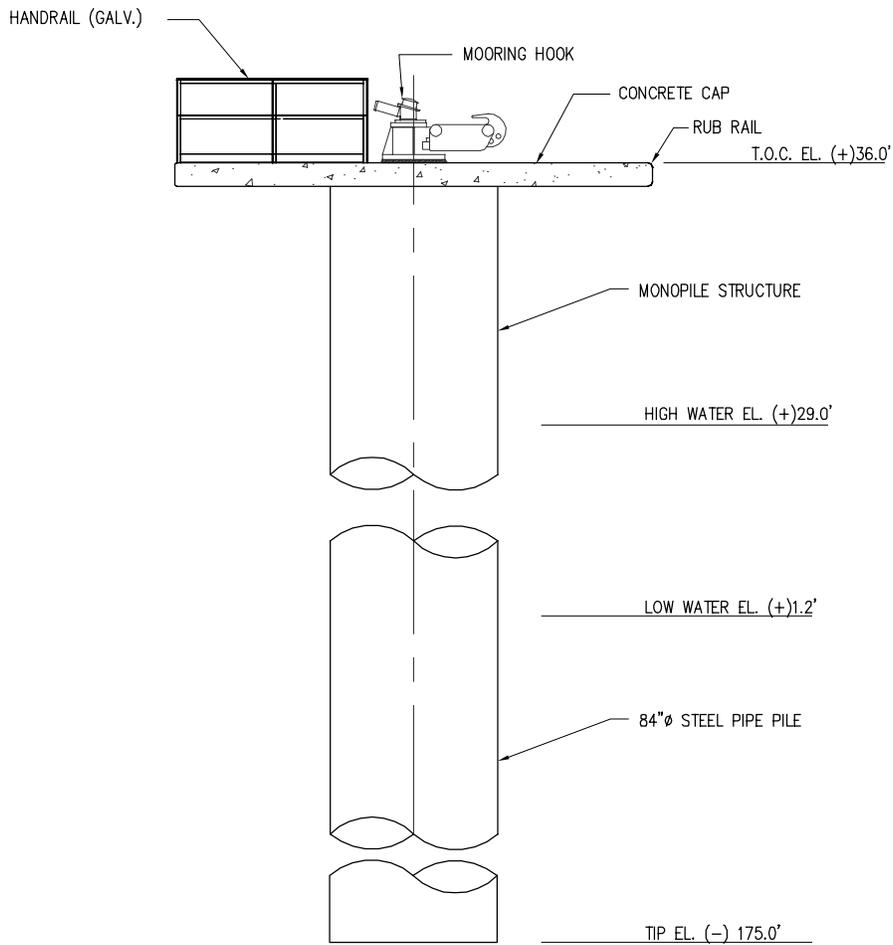
DATE 08/15  
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CONTRACT 9906  
SHEET No.

**10** OF **26**



**MOORING DOLPHIN PLAN**

SCALE: 1/8"=1'-0"



**MOORING DOLPHIN ELEVATION**

SCALE: 1/8"=1'-0"



9906-P11



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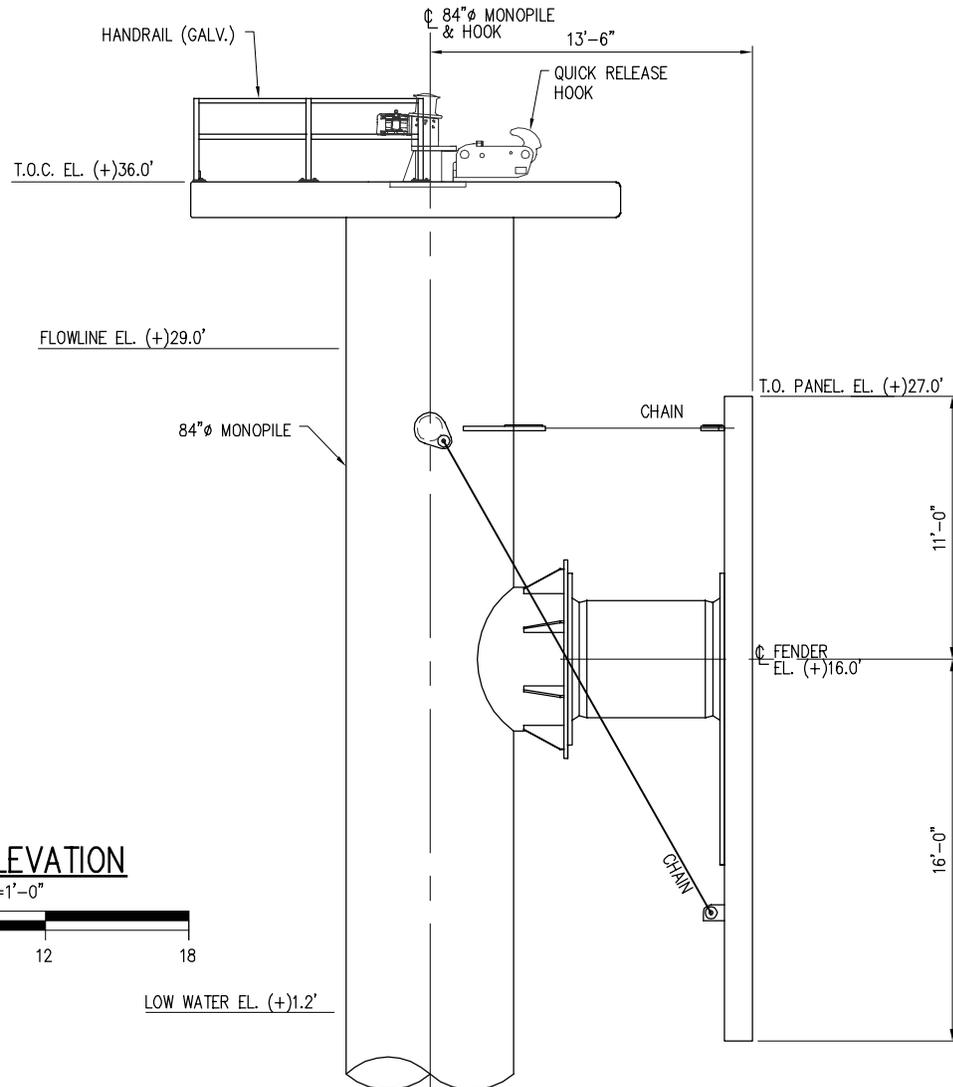
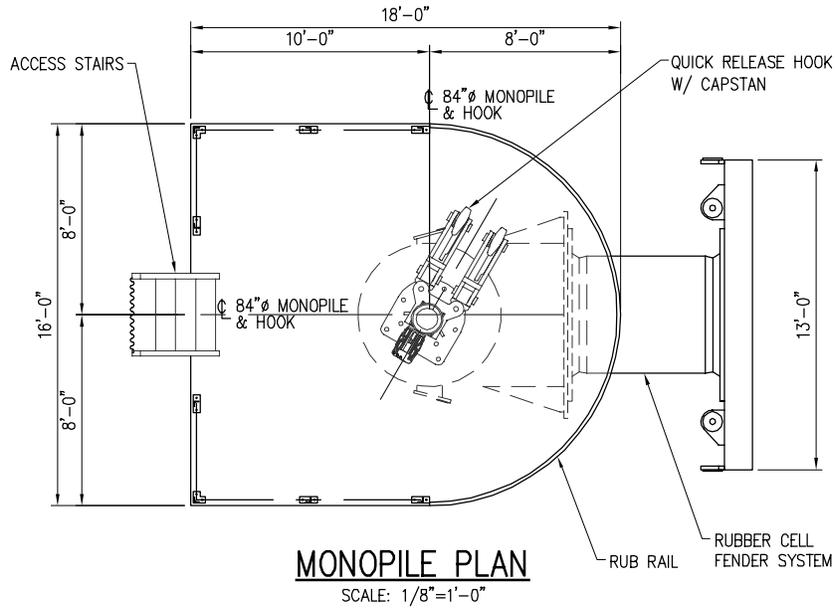
LOUISIANA

**PROPOSED NEW MARINE FACILITY**

**MOORING DOLPHIN PLAN AND ELEVATION**

DATE 08/15  
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DRAWN MEW  
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11 OF 26



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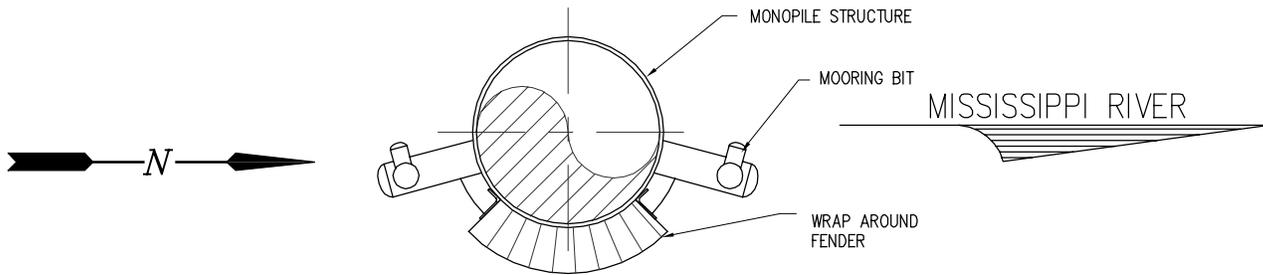
LOUISIANA

**PROPOSED NEW MARINE FACILITY**

**BREASTING DOLPHIN PLAN AND ELEVATION**

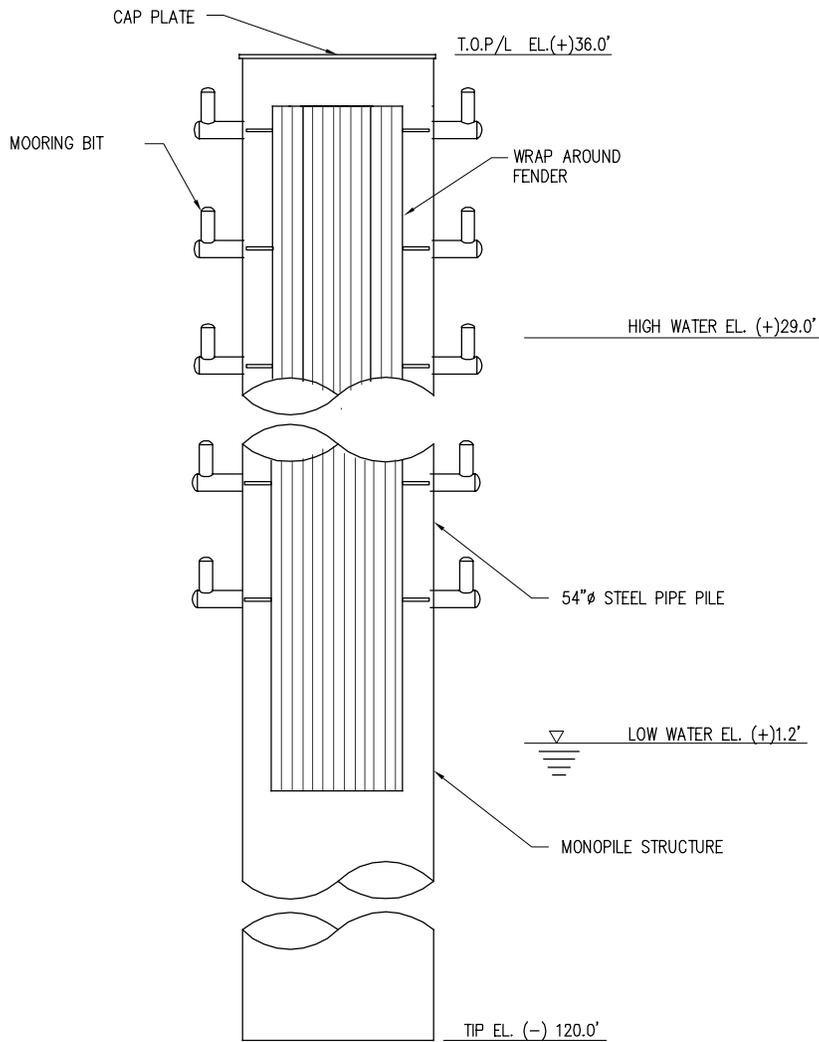
DATE 08/15  
DESIGN CLO  
DRAWN MEW  
CHECK JEJ  
CONTRACT 9906  
SHEET No.

12 OF 26



**BARGE DOLPHIN PLAN**

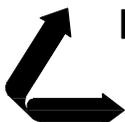
SCALE: 1/8"=1'-0"



**BARGE DOLPHIN ELEVATION**

SCALE: 1/8"=1'-0"

9906-P13



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**PROPOSED NEW MARINE FACILITY**

**BARGE DOLPHIN PLAN AND ELEVATION**

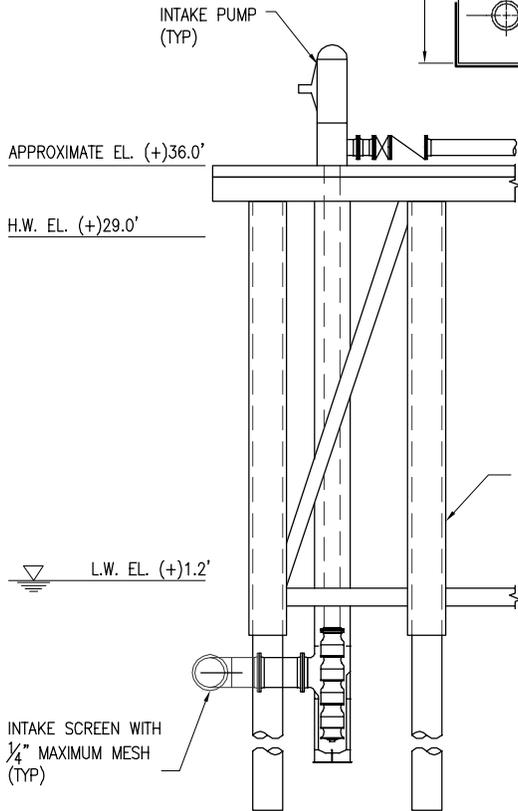
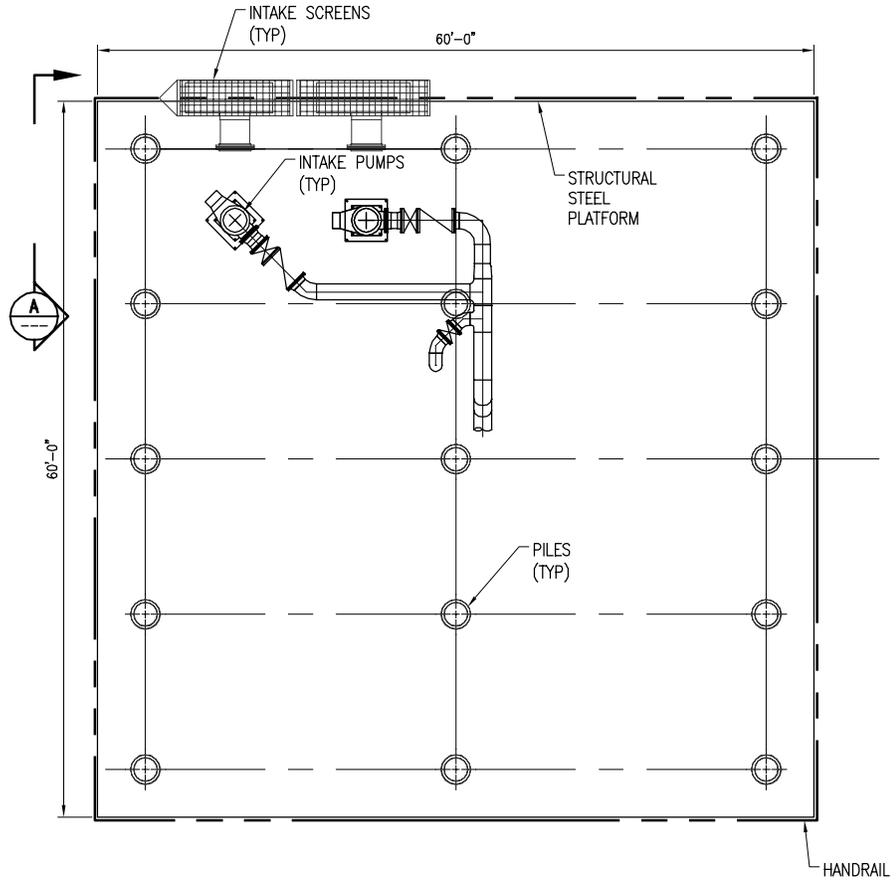
DATE 08/15  
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CONTRACT 9906  
SHEET No.

**13** OF **26**





MISSISSIPPI RIVER



### INTAKE PUMP PLATFORM PLAN

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



### SECTION

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



9906-P15



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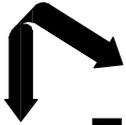
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**PROPOSED NEW MARINE FACILITY**

**INTAKE PUMP PLATFORM PLAN**

DATE 08/15  
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 CONTRACT 9906  
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15 OF 26



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NEW ORLEANS, LA · BEAUMONT, TX

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**YUHUANG CHEMICAL INC.**

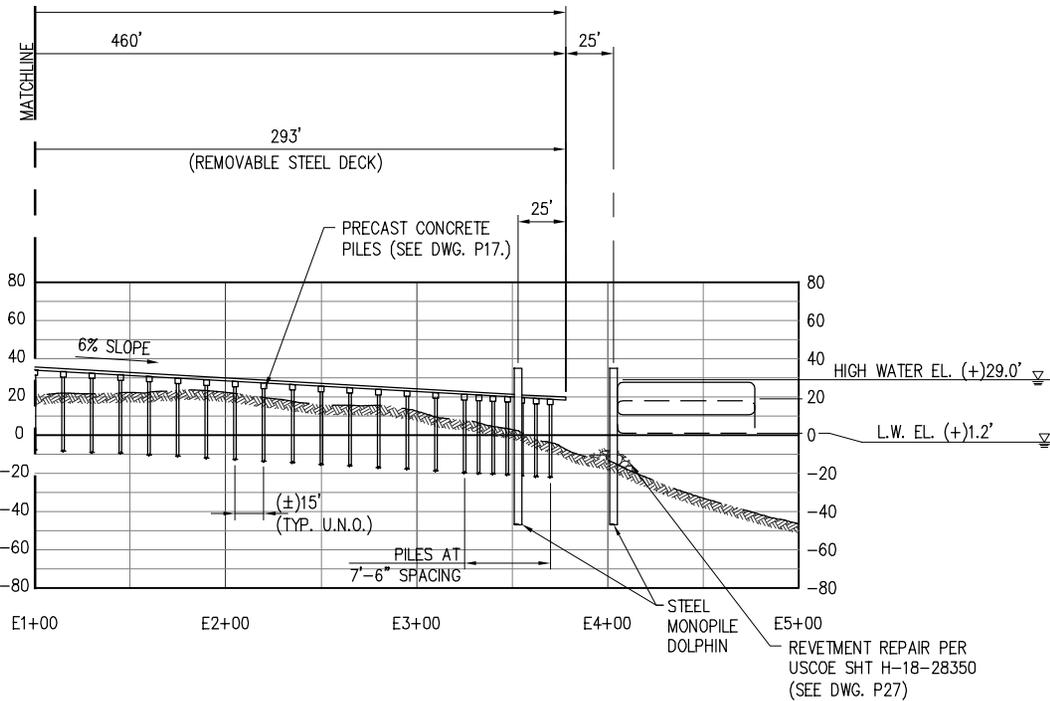
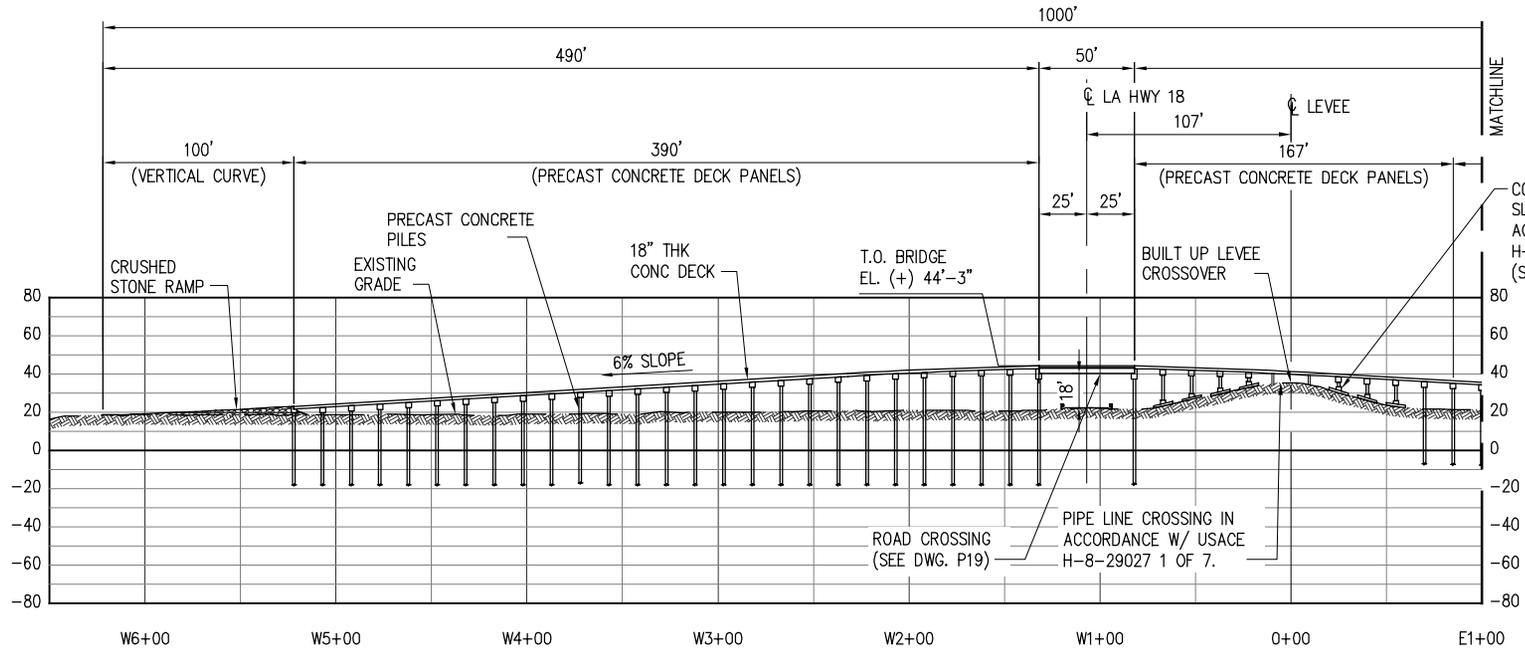
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**PROPOSED NEW MARINE FACILITY**

**MARINE OFFLOADING FACILITY**

9906-P16

DATE 08/15  
DESIGN CLO  
DRAWN MEW  
CHECK JEL  
CONTRACT 9906  
SHEET NO. 16 OF 26



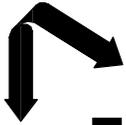
**NOTES:**

1. DECK PANELS WILL BE REMOVABLE BELOW HIGH WATER. PANELS WILL BE REMOVED TO PREVENT SUBMERSION IN THE RIVER AS REQUIRED DUE TO THE RIVER STAGE.

**MARINE OFFLOADING FACILITY**

SCALE: 1"=100'





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INCORPORATED

NEW ORLEANS, LA · BEAUMONT, TX

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**YUHUANG CHEMICAL INC.**

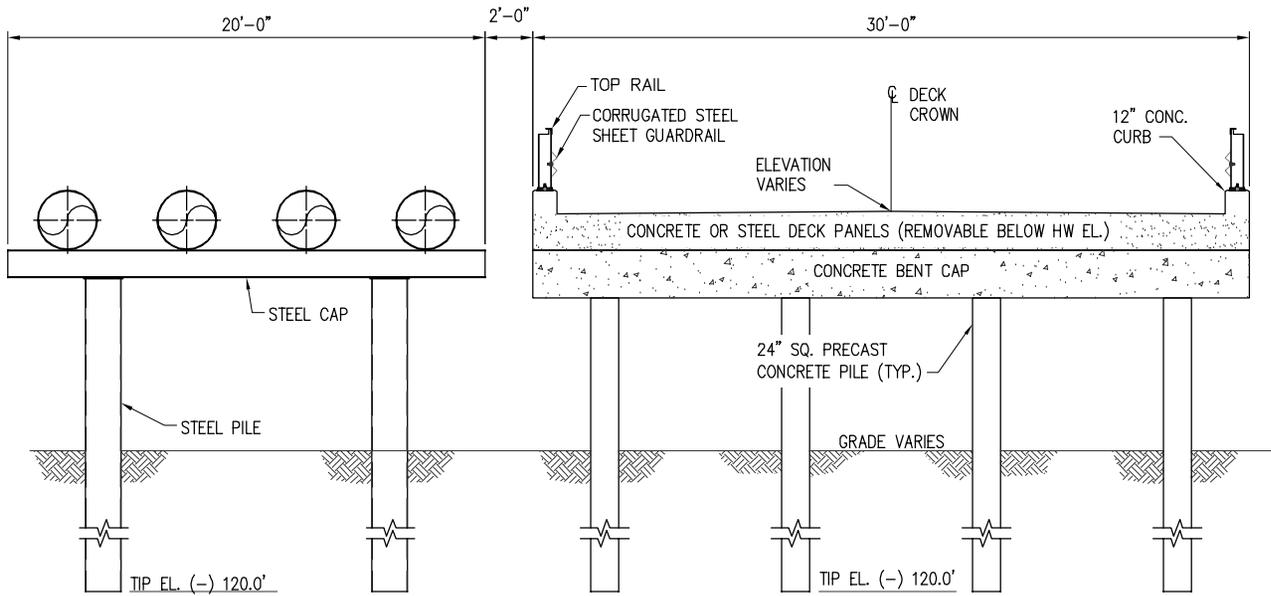
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**PROPOSED NEW MARINE FACILITY**

**TYPICAL PILE BENT SECTION**

9906-P17

DATE 08/15  
DESIGN CLO  
DRAWN MEW  
CHECK JEL  
CONTRACT 9906  
SHEET NO.  
**17** OF **26**

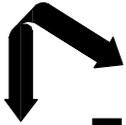


**TYPICAL PILE BENT SECTION**

SCALE: 1/8"=1'-0"



NOTE:  
STEEL PIPE SUPPORT OCCURS FROM 10'  
OFFSHORE OF TOE OF LEVER TO TYPICAL  
BARGE DOCK APPROACH SECTION.



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INCORPORATED

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**YUHUANG CHEMICAL INC.**

LOUISIANA

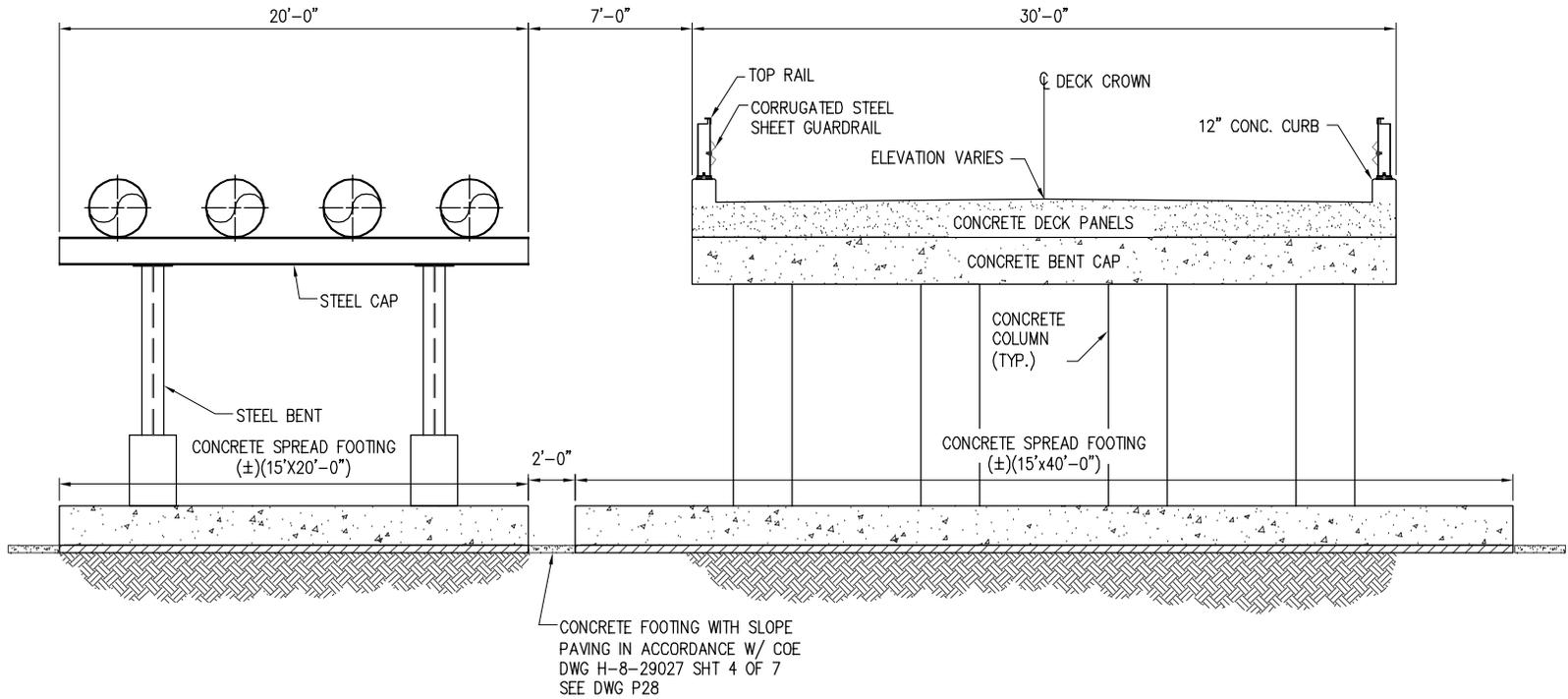
**PROPOSED NEW MARINE FACILITY**

**TYPICAL SPREAD FOOTING BENT SECTION**

DATE 08/15  
DESIGN CLO  
DRAWN MEW  
CHECK JEL  
CONTRACT 9906  
SHEET NO.

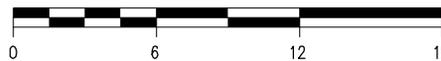
18 OF 26

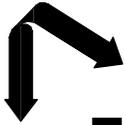
9906-P18



**TYPICAL SPREAD FOOTING BENT SECTION**

SCALE: 1/8" = 1'-0"





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INCORPORATED

NEW ORLEANS, LA · BEAUMONT, TX

ST. JAMES

**YUHUANG CHEMICAL INC.**

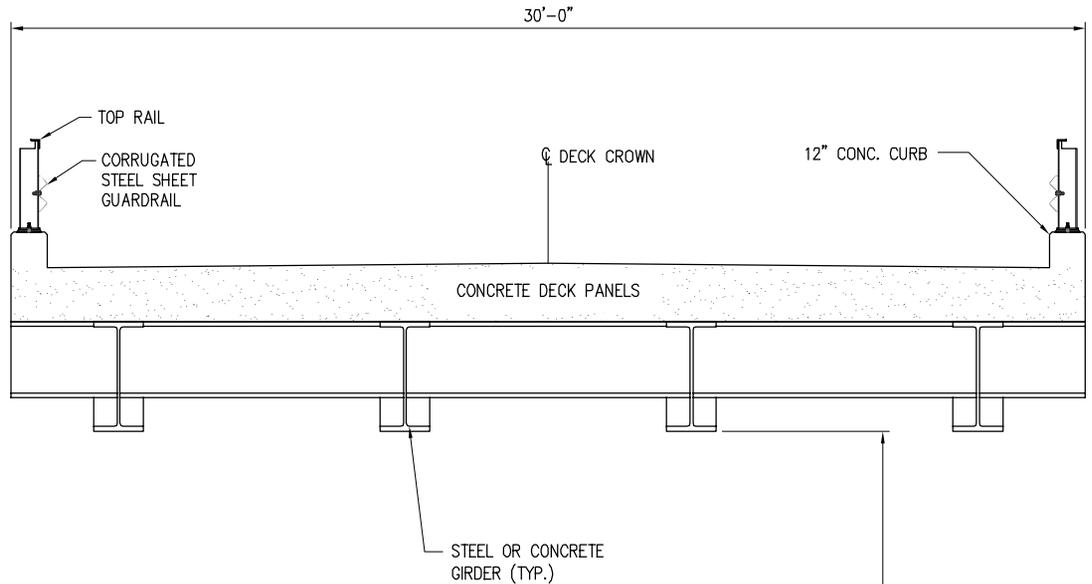
LOUISIANA

**PROPOSED NEW MARINE FACILITY**

**TYPICAL ROAD CROSSING SECTION**

9906-P19

DATE 08/15  
DESIGN CLO  
DRAWN MEW  
CHECK JEL  
CONTRACT 9906  
SHEET NO.  
**19** OF **26**



STEEL OR CONCRETE GIRDER (TYP.)

CONCRETE DECK PANELS

30'-0"

TOP RAIL  
CORRUGATED STEEL SHEET GUARDRAIL

DECK CROWN

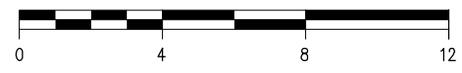
12" CONC. CURB

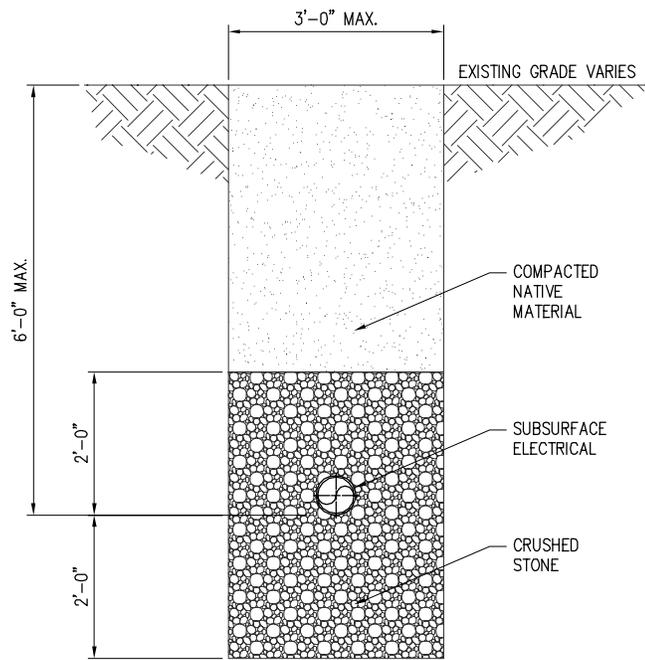
18'-0" CLEARANCE (MIN.)

LA 18 (RIVER ROAD)

**TYPICAL ROAD CROSSING SECTION**

SCALE: 3/16"=1'-0"





**TYPICAL ELECTRICAL SUBSURFACE SECTION**

SCALE: 3/8"=1'-0"



9906-P20



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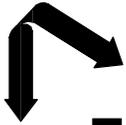
LOUISIANA

**PROPOSED NEW MARINE FACILITY**

**TYPICAL PIPE PILE BENT SECTION**

DATE 08/15  
DESIGN CLO  
DRAWN MEW  
CHECK JEJ  
CONTRACT 9906  
SHEET No.

**20** OF **26**



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ST. JAMES

**YUHUANG CHEMICAL INC.**

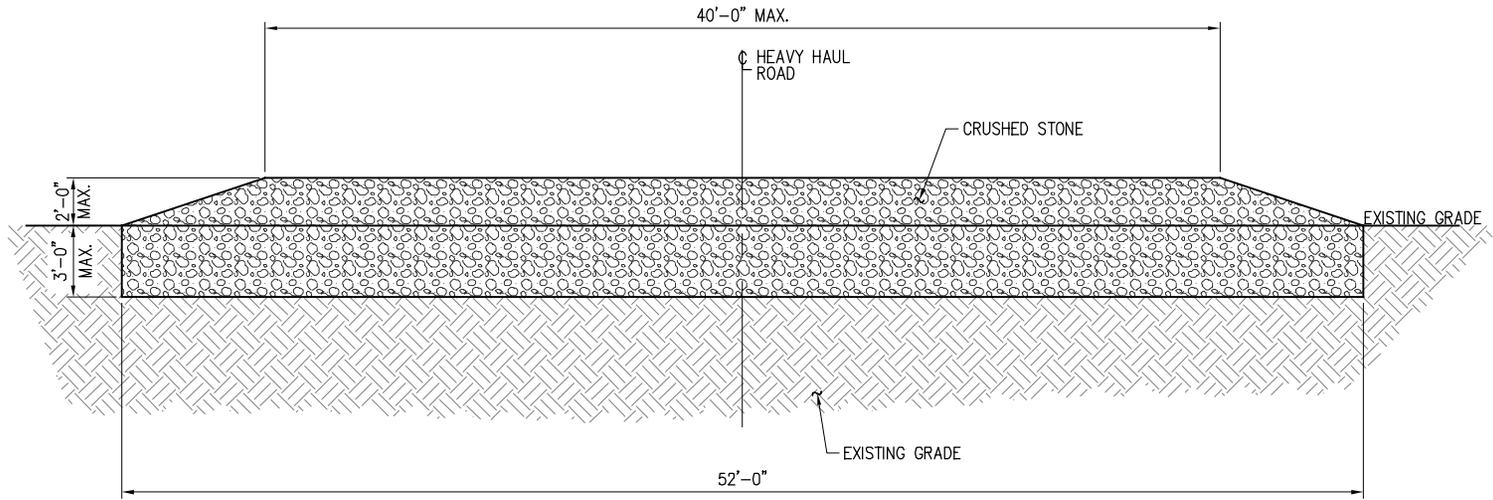
LOUISIANA

**PROPOSED NEW MARINE FACILITY**

**TYPICAL SECTIONS**

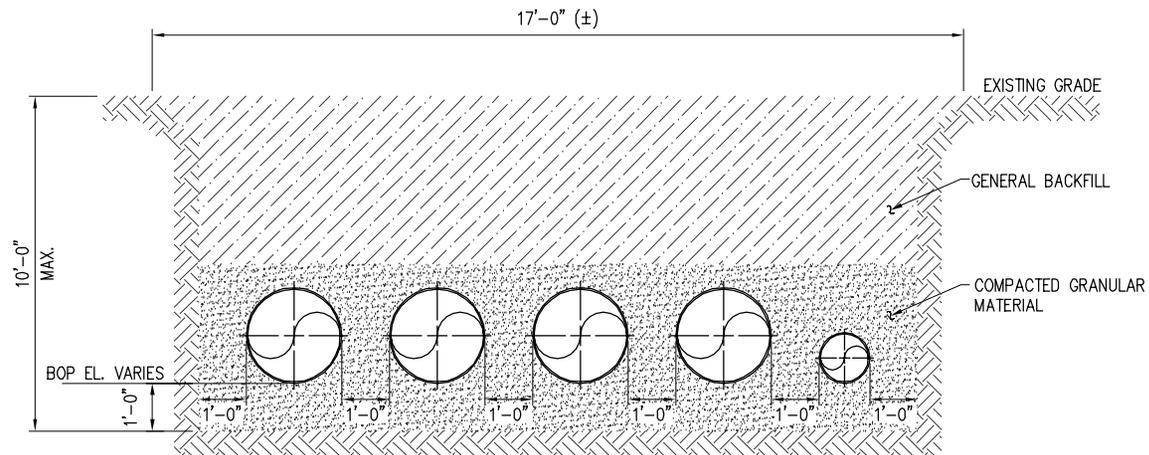
9906-P21

DATE 08/15  
DESIGN CLO  
DRAWN MEW  
CHECK JEL  
CONTRACT 9906  
SHEET NO. 21 OF 26



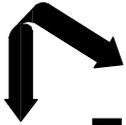
**TYPICAL HEAVY HAUL ROAD SECTION**

SCALE: 1/8"=1'-0"



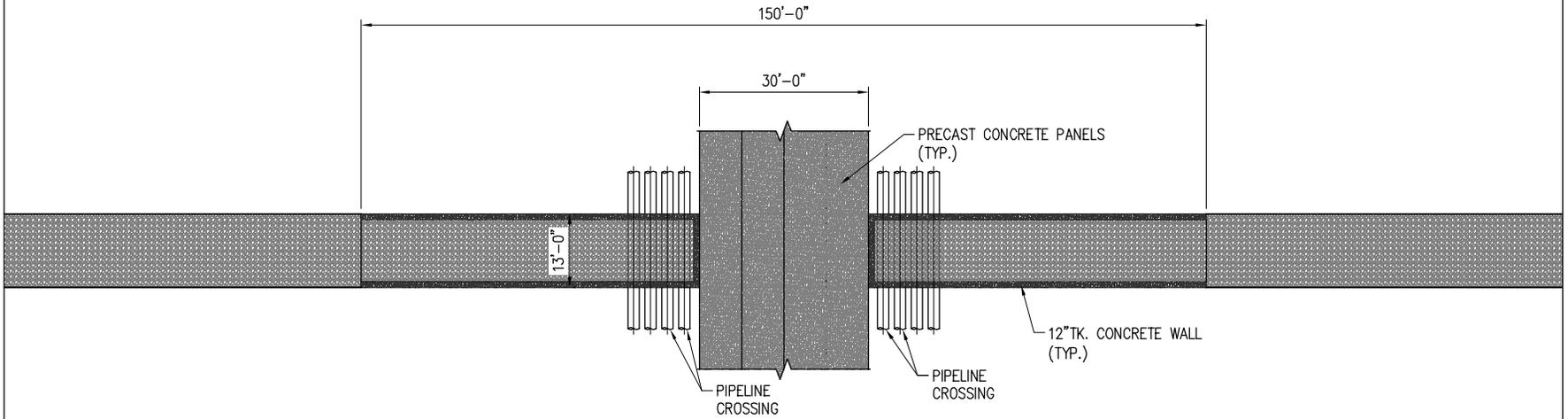
**TYPICAL UNDERGROUND PIPE SECTION**

SCALE: 1/4"=1'-0"



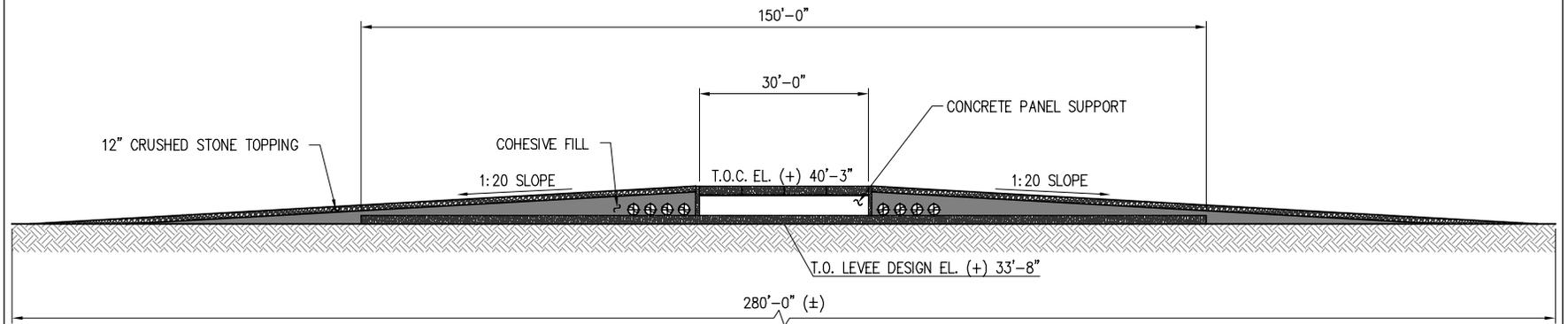
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**MARINE OFFLOADING LEVEL CROSSOVER PLAN**

SCALE: 1"=30'



**MARINE OFFLOADING LEVEL CROSSOVER ELEVATION**

SCALE: 1"=30'

ST. JAMES

**YUHUANG CHEMICAL INC.**

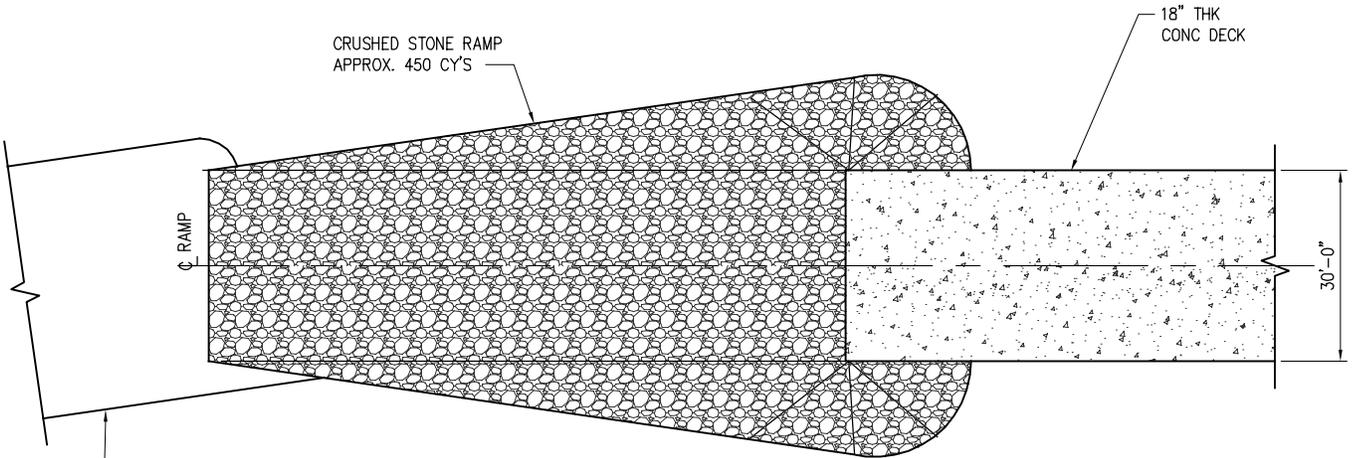
LOUISIANA

**PROPOSED NEW MARINE FACILITY  
MARINE OFFLOADING  
LEVEL CROSSOVER PLAN AND ELEVATION**

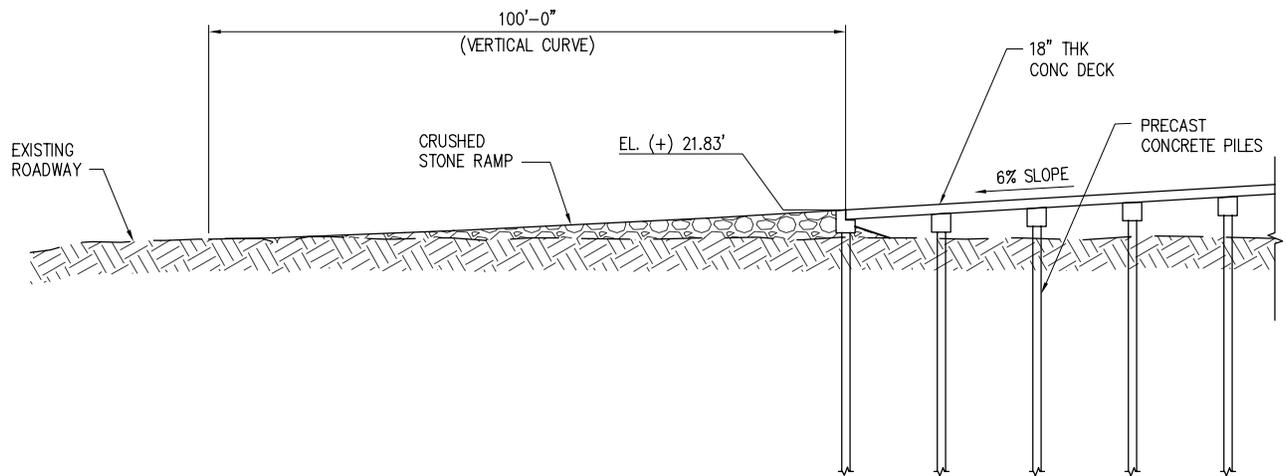
9906-P22

DATE 08/15  
DESIGN CLO  
DRAWN MEW  
CHECK JEL  
CONTRACT 9906  
SHEET NO.

22 OF 26



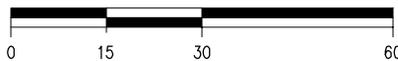
PLAN



ELEVATION

**MARINE HEAVY HAUL RAMP**

SCALE: 1"=30'



9906-P23



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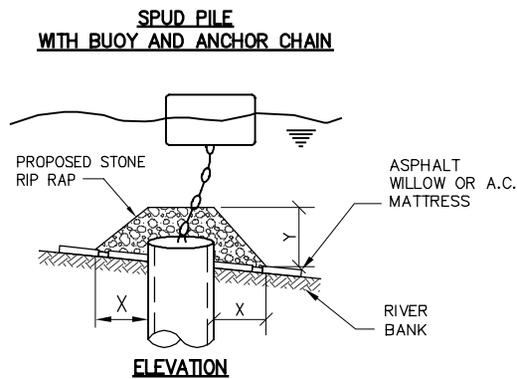
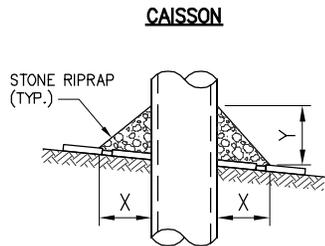
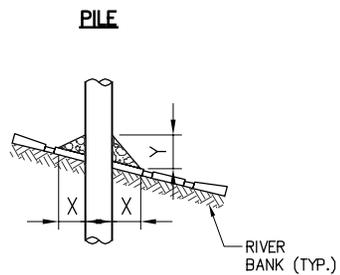
LOUISIANA

**PROPOSED NEW MARINE FACILITY**

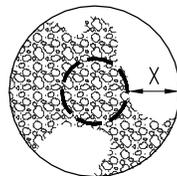
**MARINE HEAVY HAUL RAMP**

DATE 08/15  
DESIGN CLO  
DRAWN MEW  
CHECK JEJ  
CONTRACT 9906  
SHEET No.

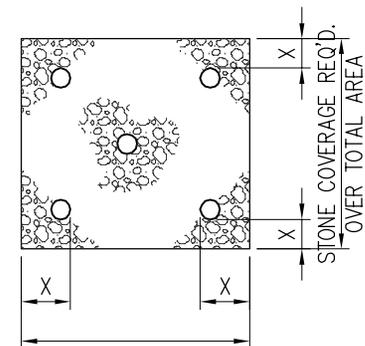
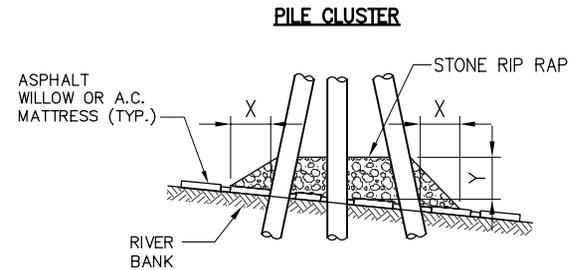
**23** OF **26**



**ELEVATION**



**PLAN**



STONE COVERAGE REQ'D.  
OVER TOTAL AREA

**NOTES:**

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

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 W/ ANCHOR CHAIN & BUOY		PILE CLUSTER	
	X	Y	X	Y	X	Y	X	Y
1 TO 10	3	1 1/2	5	2			3	1
11 TO 40	5	2	8	3	7	3	6	2
41 TO 60	8	3	12	4	12	4	10	3

REPAIR PROCEDURES REQUIRED WHEN PENETRATING REVETMENTS WITH PILES, CAISSONS AND/OR PILE CLUSTERS

U.S ARMY ENGINEERS DISTRICT, NEW ORLEANS CORPS OF ENGINEERS

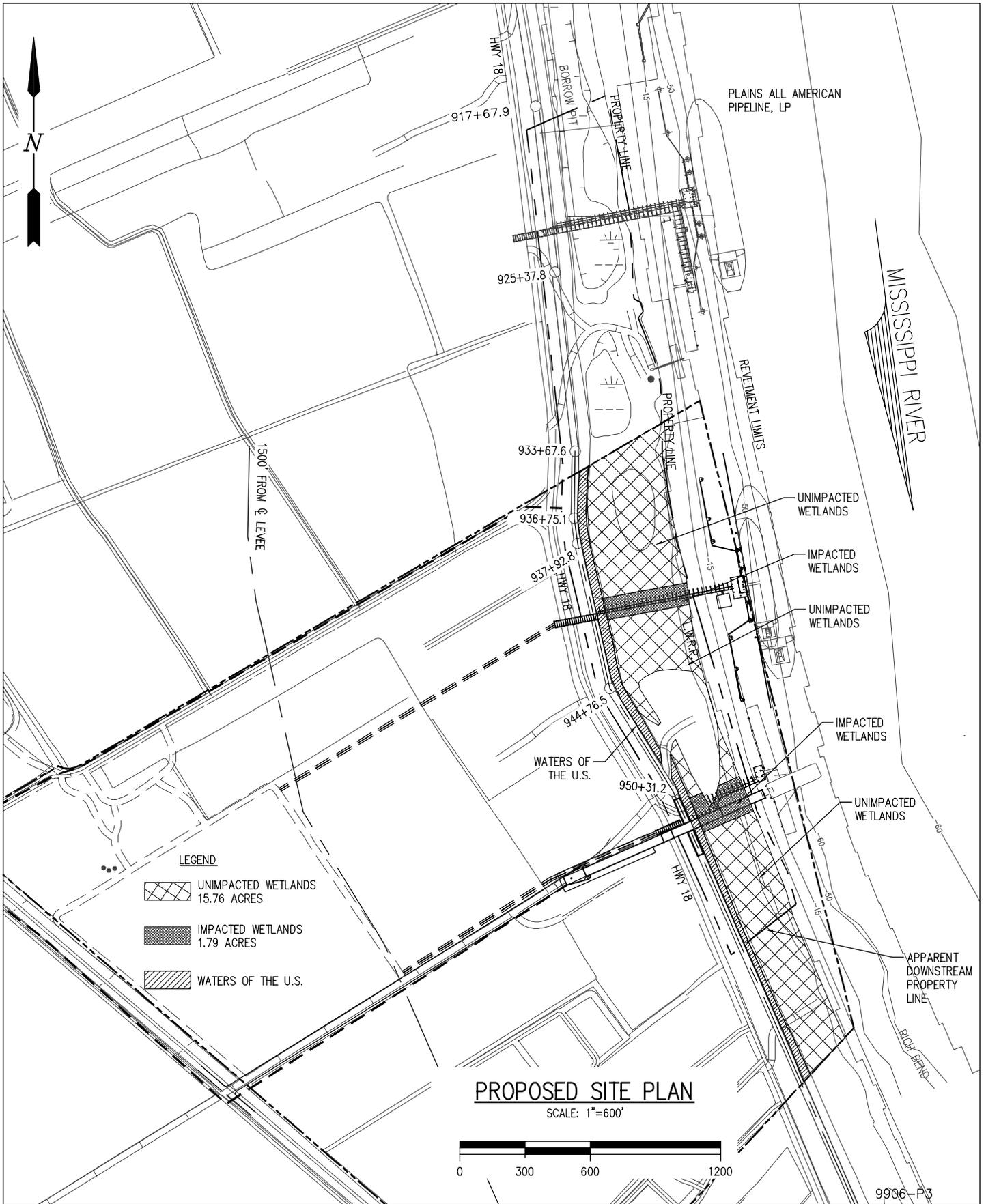
DEC. 1987

FILE NO. H-18-28350

**LANIER & ASSOCIATES**  
CONSULTING ENGINEERS, INC.  
NEW ORLEANS, LOUISIANA  
JOB NO. 9906 CAD NO. 9906-P26 L. & A. D.W. NO. 24 OF 26







**LEGEND**

-  UNIMPACTED WETLANDS  
15.76 ACRES
-  IMPACTED WETLANDS  
1.79 ACRES
-  WATERS OF THE U.S.

**PROPOSED SITE PLAN**

SCALE: 1"=600'



9906-P3



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NEW ORLEANS, LA · BEAUMONT, TX

ST. JAMES

**YUHUANG CHEMICAL INC.**

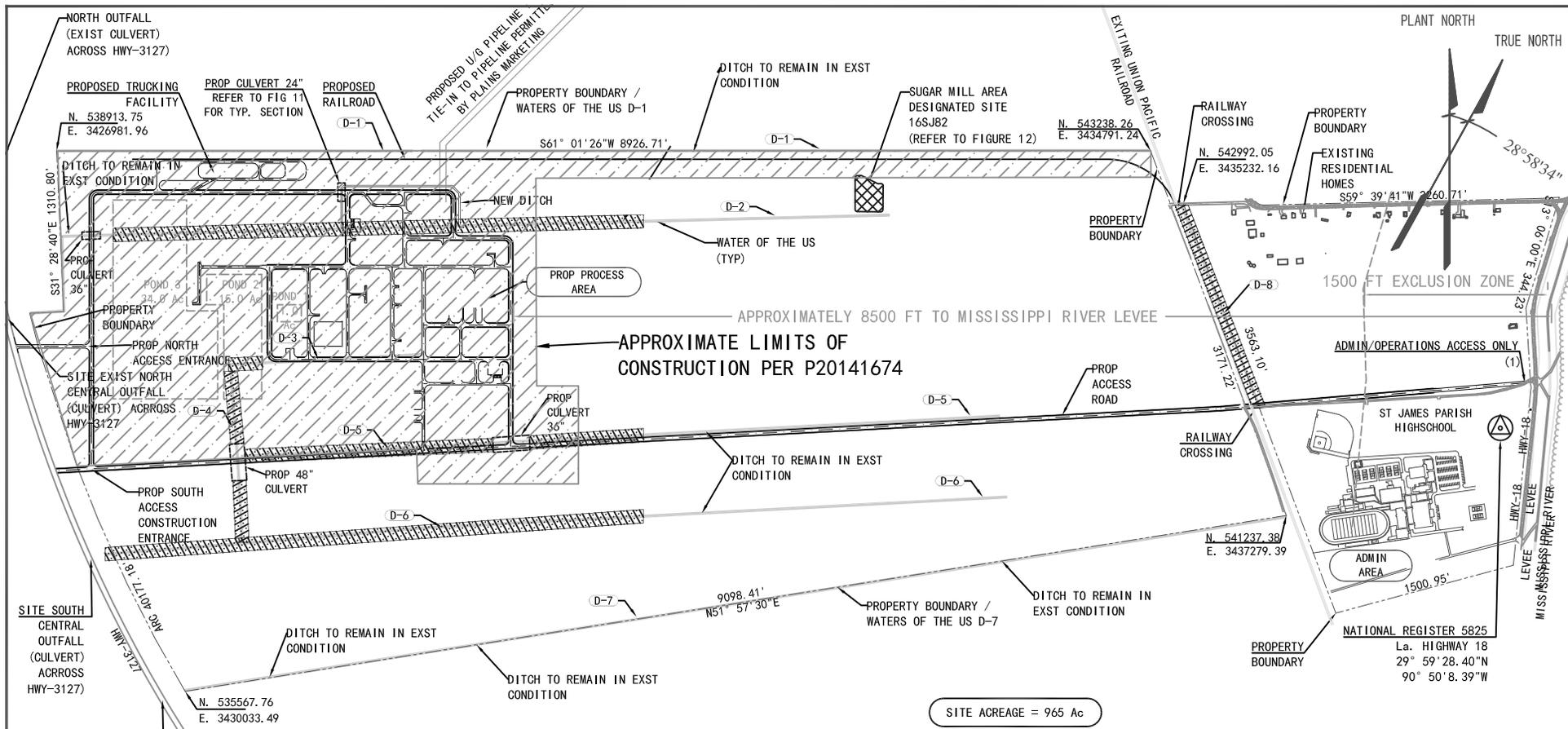
LOUISIANA

**PROPOSED NEW MARINE FACILITY**

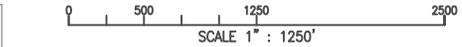
**WETLANDS IMPACT**

DATE 08/15  
DESIGN CLO  
DRAWN MEW  
CHECK JEJ  
CONTRACT 9906  
SHEET No.

**28** OF 28



WATERS OF THE US DITCH	TOTAL LENGTH	LENGTH TO BE BACKFILLED	IMPACT AREA	IMPACT AREA
	FT	FT	FT <sup>2</sup>	Ac
D-1	8,860	N/A		
D-2	7,625	xxx 3,340	12,930	0.30
D-3	1,580	1,575	4,725	0.11
D-4	1,465	1,465	4,395	0.10
D-5	6,200	3,255	9,765	0.22
D-6	7,375	4,400	13,200	0.30
D-7	9,100	N/A		
D-8	1,750	1,750	5,250	0.12
<b>TOTALS</b>	<b>43,955</b>	<b>16,755</b>	<b>50,265</b>	<b>1.15</b>



Corrected 2/5/16 SGG

FIGURE NO. 27-A

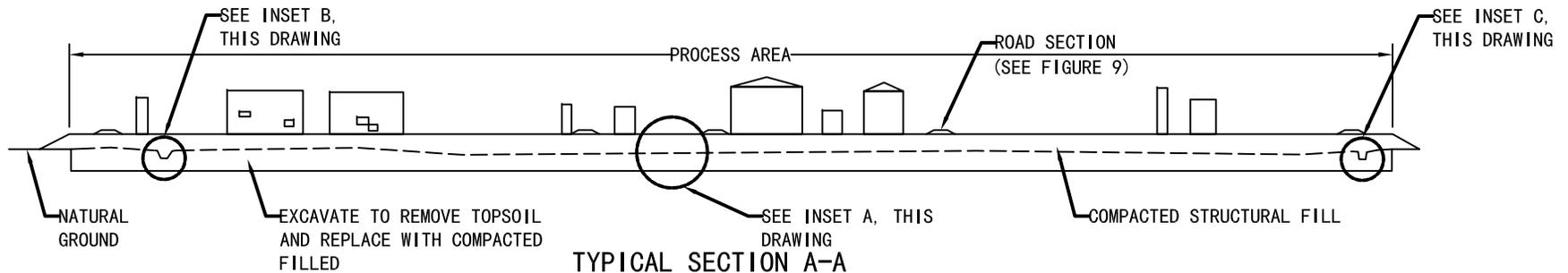
NOTES:  
1. ADMIN/OPERATIONS ACCESS ONLY: HEAVY CONSTRUCTION TRAFFIC WILL NOT UTILIZE THIS INGRESS/EGRESS POINT.

WATER OF THE US TO BE IMPACTED FOR FINAL DEVELOPMENT	
WATER OF THE US	
PROPERTY LINE/FENCE	
NEW DRAINAGE DITCH	
NEW ROAD W/ 6-FT SHOULDERS	
LEGEND	

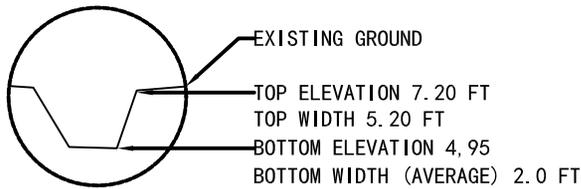
REV	DATE	DESCRIPTION	DESIGN	CHECKED	APPROV	ENG
C	01-15-2016	ISSUE FOR APPROVAL NWP-10	RG	JT	ILSN	-
B	12-22-2015	ISSUE FOR APPROVAL NWP-10	RG	JT	ILSN	-
A	08-28-2015	ISSUE FOR APPROVAL NWP-39	RG	JT	ILSN	-

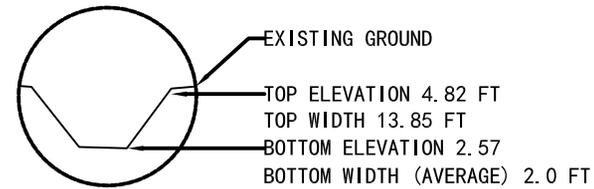
	Yuhuang 4950 MTPD Methanol Project St. James Parish, LA	TITLE <b>WATERS OF THE US IMPACT PLAN FOR YCI 404/10 PERMIT</b>
REFERENCE WATERS OF THE US	SCALE 1" : 1250'	DWG No. YCI1M1-YCI-00-0000-CI-DPP-0001-007



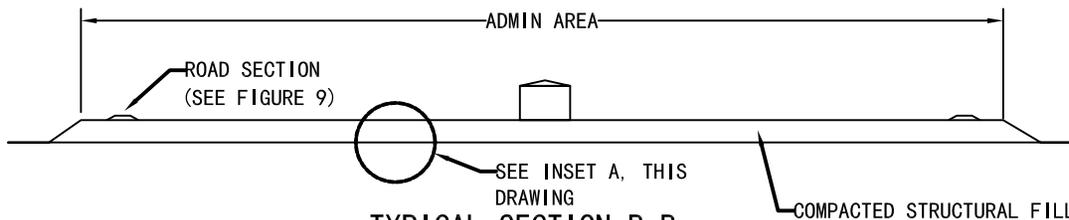
**TYPICAL SECTION A-A**  
**METHANOL PROCESS AREA**  
 NTS



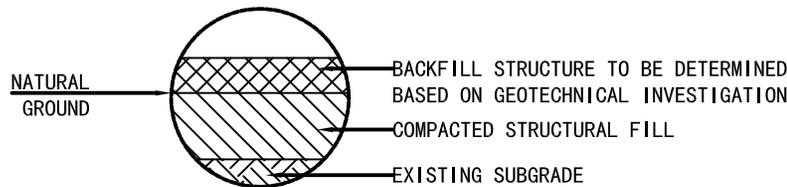
**INSET B**  
 EXISTING WATER OF THE US DITCH D-2  
 (NTS)



**INSET C**  
 EXISTING WATER OF THE US DITCH D-3  
 (NTS)

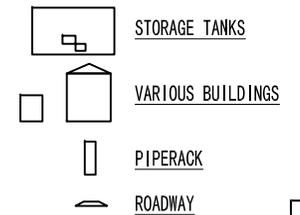


**TYPICAL SECTION B-B**  
**ADMINISTRATION AREA**  
 NTS



**INSET A**  
 NTS

**LEGEND**



**NOTES**

1. VERTICAL SCALE EXAGGERATED FOR CLARITY.
2. STRUCTURES SHOWN FOR INFORMATION ONLY.

**FIGURE NO. 8**

A	08-28-2015	ISSUE FOR APPROVAL	RG	JT	CI	-	-	-	-
REV	DATE	DESCRIPTION	DESIGN	CHECKED	DISC	APPROV	ENG		
 <b>YUHUANG CHEMICAL INC.</b>			Yuhuang 4950 MTPD Methanol Project St. James Parish, LA		<b>TYPICAL CROSS SECTION</b>				
REFERENCE	WATERS OF THE US		SCALE	NTS	8 OF 12	DWG. No. YCIM1-YCI-00-0000-CI-DPP-0001-008			