

PUBLIC NOTICE

February 14, 2022

United States Army
Corps of Engineers
New Orleans District
Regulatory Division
7400 Leake Avenue
New Orleans, Louisiana 70118-3651

(504) 862-2675
Jamie.M.Crowe@usace.army.mil
Project Manager
Jamie Crowe
Permit Application Number
MVN 2020-001248 CO
408 # 2020-0593

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).

INDUSTRIAL PLAN EXPANSION IN ASCENSION PARISH

NAME OF APPLICANT: REG Geismar, LLC, c/o Duplantis Design Group, PC, 314 E Bayou Road, Thibodaux, LA 70301

LOCATION OF WORK: In the Lake Pontchartrain Basin, Lake Maruepas hydrologic unit (HUC 08070204) and in the Mississippi River Basin, Lower Mississippi River – Baton Rouge hydrologic unit (HUC 08070100); in the Mississippi River, left descending bank, mile 185 and near the intersection of Louisiana Hwy 73 and Louisiana Hwy 75, in Geismar, Louisiana, in Ascension Parish, as shown in the enclosed drawings.

CHARACTER OF WORK: On the flood side of the levee, the applicant proposes to degrade approximately 1.71 acres of the bank for stability; clear, grade, and fill an area for temporary access and parking/laydown area, and install and maintain a pile-supported dock, pipe rack, fire water intake structure, and other appurtenances. On the protected side of the levee, the applicant proposes to clear, grade, and fill to construct a rail yard, support area, additional pipe racks, and two tank yards to expand the existing REG Geismar main facility to meet the increasing demands for renewable diesel fuels. Project implementation will permanently impact approximately 19.1 acres of forested wetlands, 7 acres of emergent wetlands, and 1.9 acres of jurisdictional waters. In addition, project

implementation will temporarily impact approximately 2 acres of forested wetlands, 0.8 acre of emergent wetlands, and 0.15 acre of jurisdictional waters.

The proposed project was designed to be incorporated into the existing infrastructure. By siting project components close together and adjacent to the existing facility, wetland impacts were avoided to the maximum extent practicable. During construction, best management practices will be implemented to reduce impacts to surrounding areas. To compensate for unavoidable wetland impacts, the applicant has agreed to purchase credits from an approved mitigation bank within the watershed of impact.

The comment period for the Department of the Army Permit 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 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: CENTRAL EVALUATION BRANCH.**

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 is unaware of properties listed on the National Register of Historic Places near the proposed work. The possibility exists that the proposed work may damage or destroy presently unknown archeological, scientific, prehistorical, historical sites, or data. Issuance of this public notice solicits input from the State Archeologist and State Historic Preservation Officer regarding potential impacts to cultural resources.

Our initial finding is that the proposed work is Not Likely to Adversely Affect any species listed as endangered by the U.S. Departments of Commerce, nor affect any habitat designated as critical to the survival and recovery of any endangered species.

The New Orleans District has determined that the proposed project 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 are included in the authorization. No other known endangered/threatened species will be impacted by the proposed activity. These determinations are based on Information & Planning Consultation for Endangered Species in Louisiana (IPaC) agreement dated

January 27, 2020 between the US Army Corps of Engineers, New Orleans District and US Fish and Wildlife Service, Ecological Services Office.

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 **5 acres** of EFH utilized by various life stages of red drum and penaeid shrimp. Our initial determination is that the proposed action would not have a substantial adverse impact on EFH or federally managed fisheries in the Gulf of Mexico. Our final determination relative to project impacts and the need for mitigation measures is subject to review by and coordination with the National Marine Fisheries Service.

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

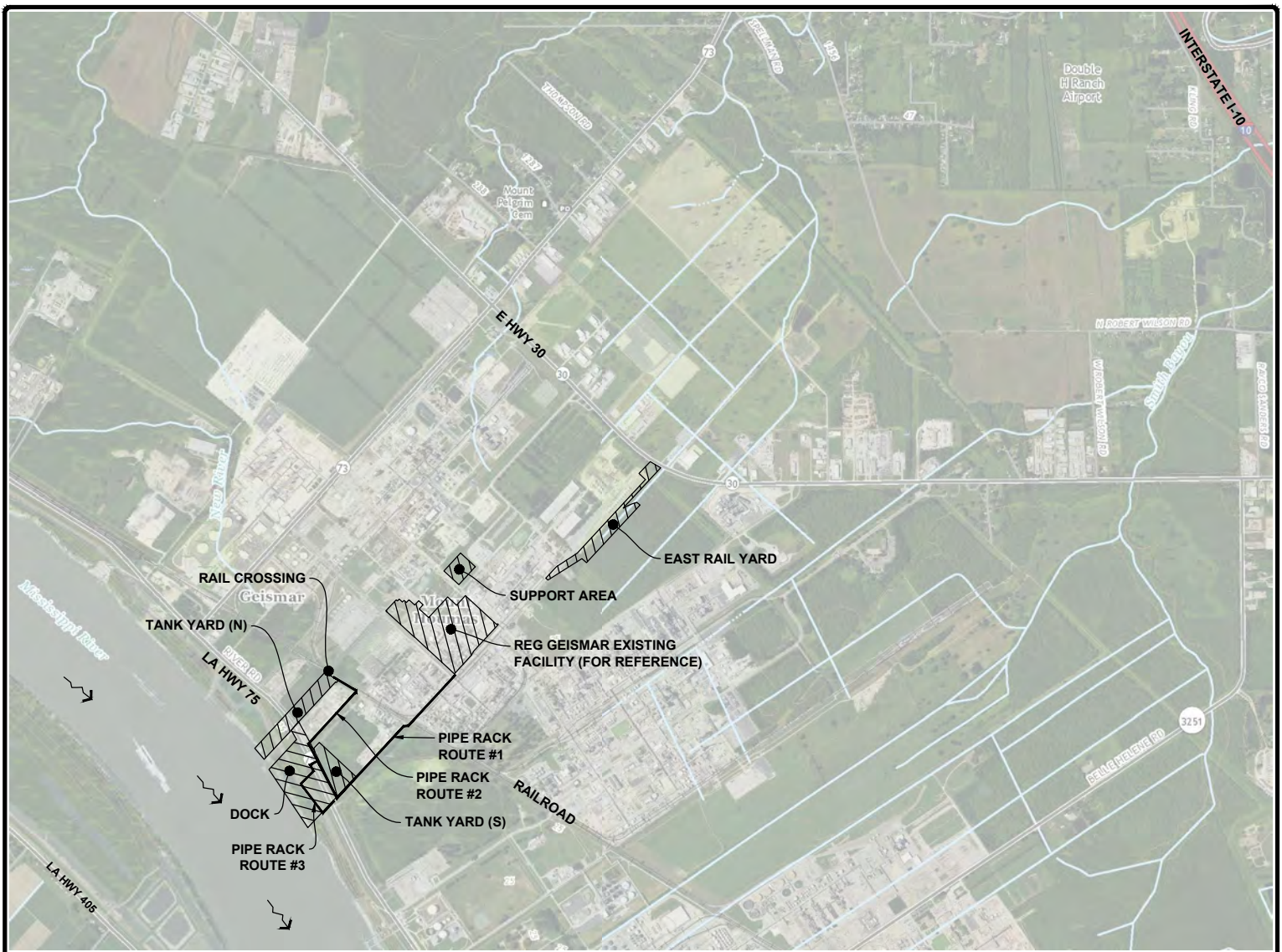
Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for public hearings shall state, with particularity, the reasons for holding a public hearing.

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

You are requested to communicate the information contained in this notice to any other parties whom you deem likely to have interest in the matter.

John M. Herman
Chief, Central Evaluation Branch

Enclosure



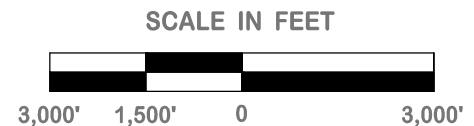
GENERAL NOTES:

1. PRIOR TO COMMENCEMENT OF WORK, THE CONTRACTOR SHALL ENSURE ALL APPLICABLE PERMITS ARE SECURED & THE LOUISIANA ONE CALL SYSTEM HAS BEEN CONTACTED.
2. ALL ELEVATIONS REFER TO NAVD 88 UNLESS NOTED OTHERWISE.
3. MULTIPLE DESIGNERS ARE RESPONSIBLE FOR THIS WORK, AS FOLLOWS:
 - (SHEETS 4–9, 17–24, & 52–60) PROPOSED IMPROVEMENTS FOR TANK FARMS (N) & (S) DESIGNED BY WOOD GROUP USA, INC. UNDER SUPERVISION OF CLAY WILLIS (LA PE #38253).
 - (SHEETS 17, 63–90) PROPOSED DOCK, BATTURE & PIPELINE IMPROVEMENTS DESIGNED BY LANIER & ASSOCIATES CONSULTING ENGINEERS INCORPORATED UNDER SUPERVISION OF ERIC M. GAGNET (LA PE #41445).
 - (SHEET 37) PROPOSED EAST RAIL YARD IMPROVEMENTS DESIGNED BY SKM TURNKEY.
4. WETLANDS IMPACTS PLANS REFERENCE USACE JD MVN-2019-00851-SL, MVN-2019-00851-1-SL, MVN-2019-00851-2-SL, MVN-2017-00302-1-SL.



ASCENSION PARISH
 LATITUDE: 30° 11' 54.71" N
 LONGITUDE: 91° 01' 4.33" W

VICINITY MAP, AREA MAP & GENERAL NOTES



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ISSUE DATE 11-10-2020
PROJECT NO. 18-678

**REG GEISMAR
 TRAIN B**
 GEISMAR, LOUISIANA
 ASCENSION PARISH
 FOR REG GEISMAR, LLC
 GEISMAR, LOUISIANA

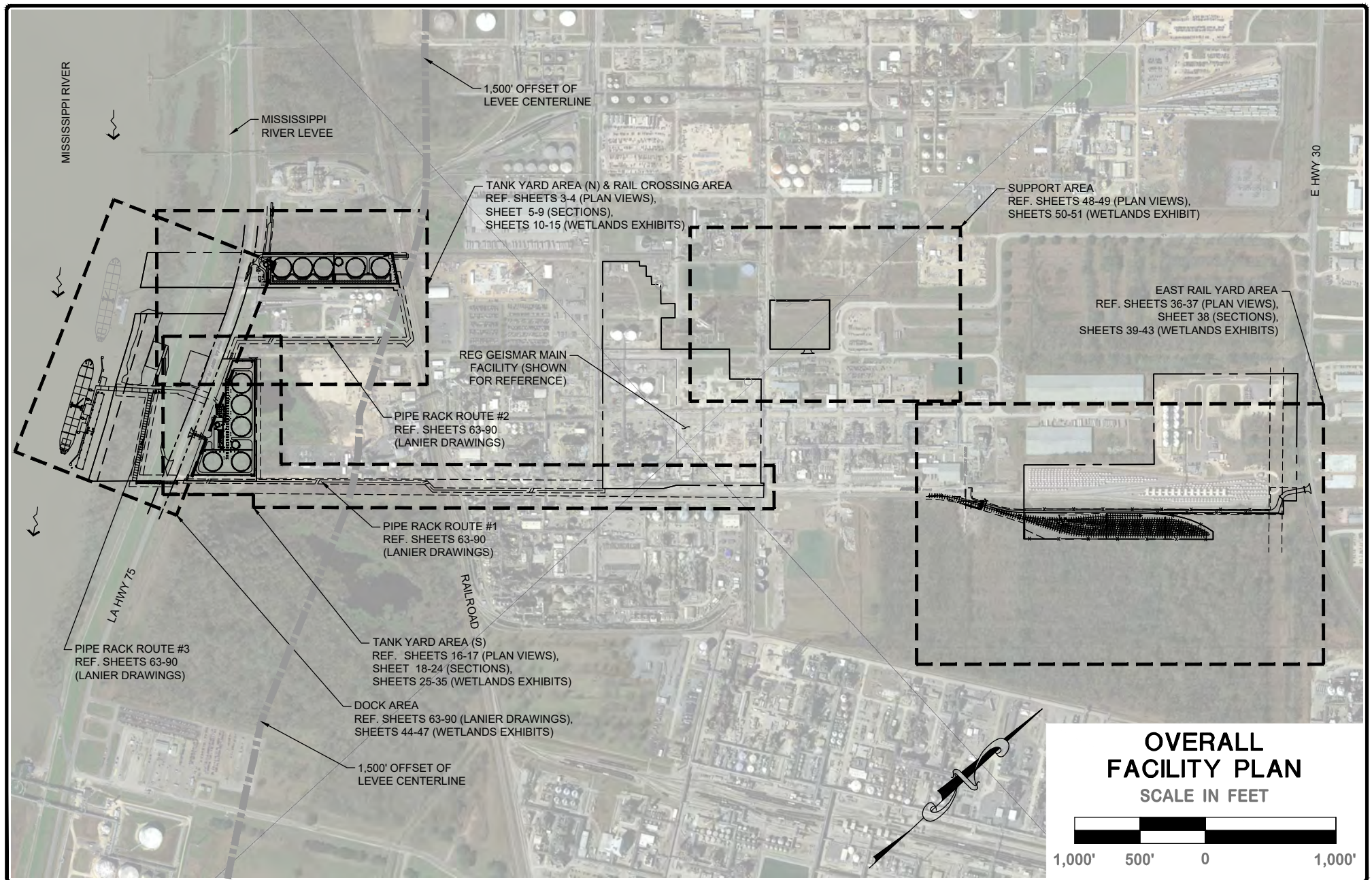
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PRELIMINARY
FOR PERMIT PURPOSES ONLY

Kainen T. LeBlanc
 LA PE #34314
 Duplantis Design Group, P.C.



314 E. Bayou Road
 Thibodaux, LA 70301
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 Fax: 985.447.7009
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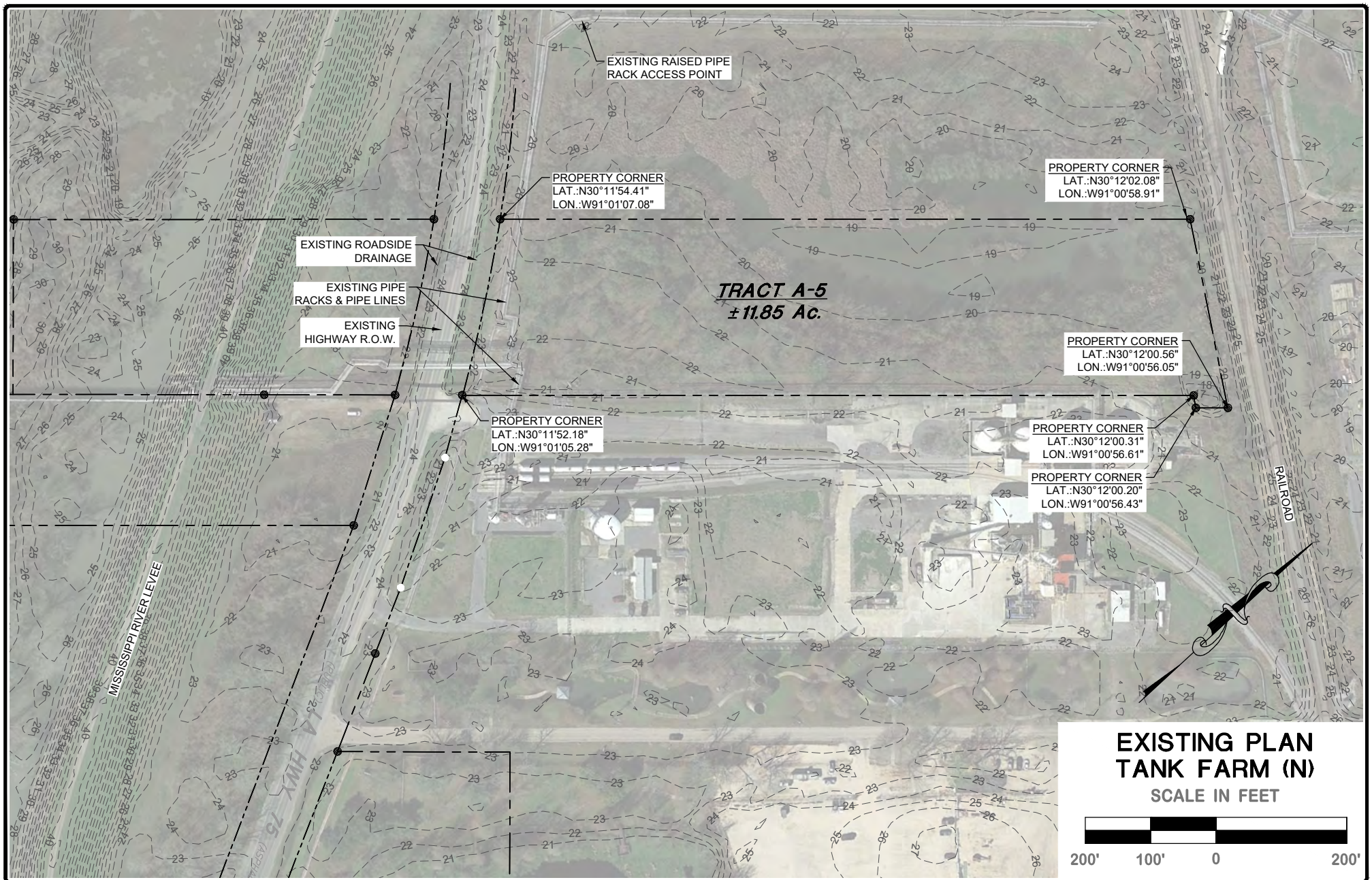
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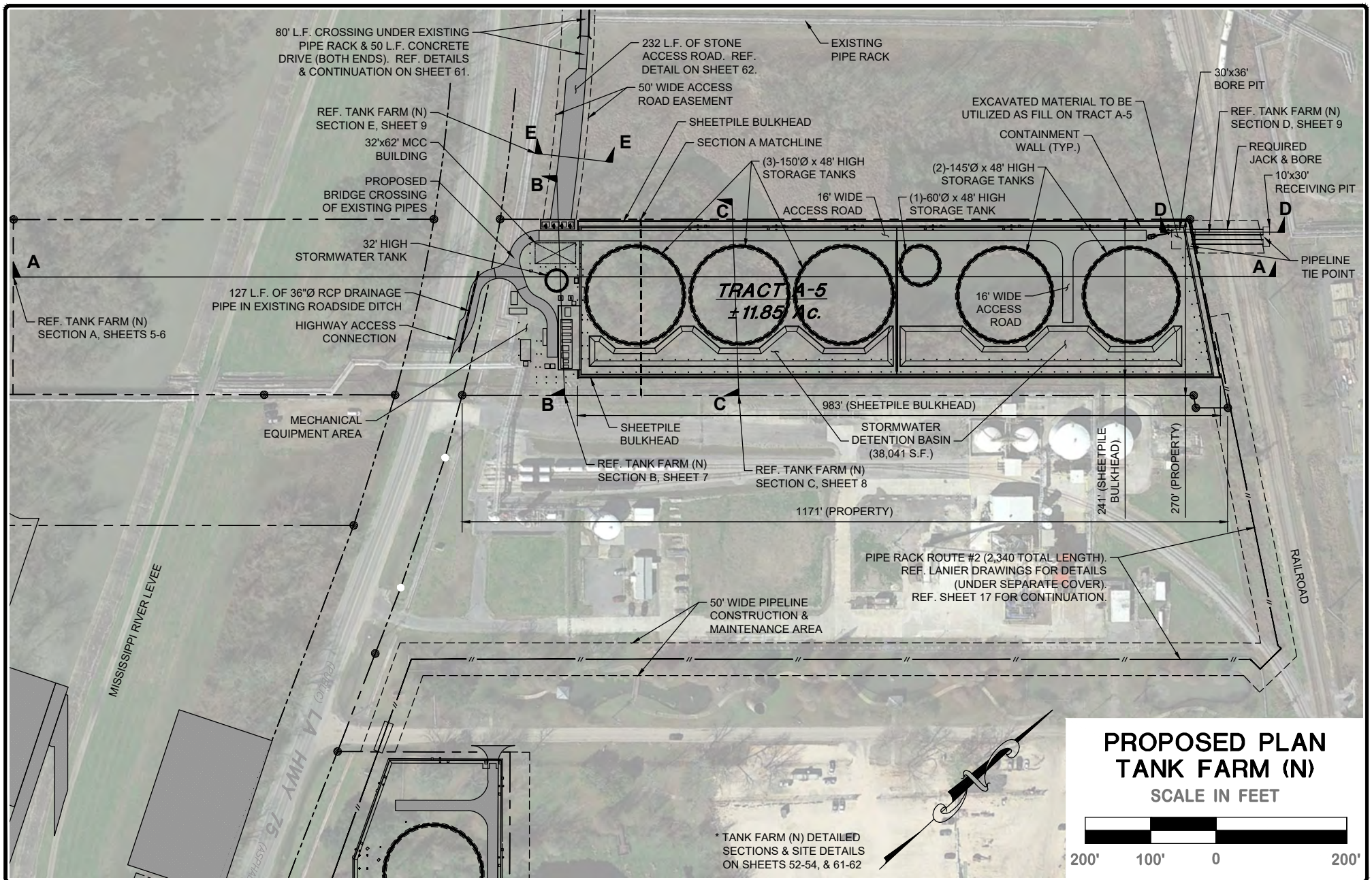
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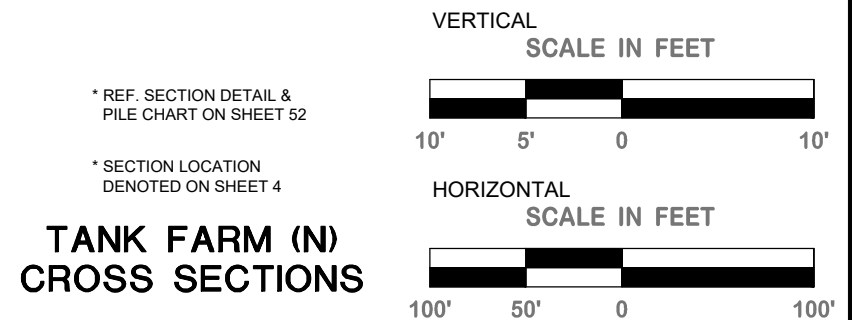
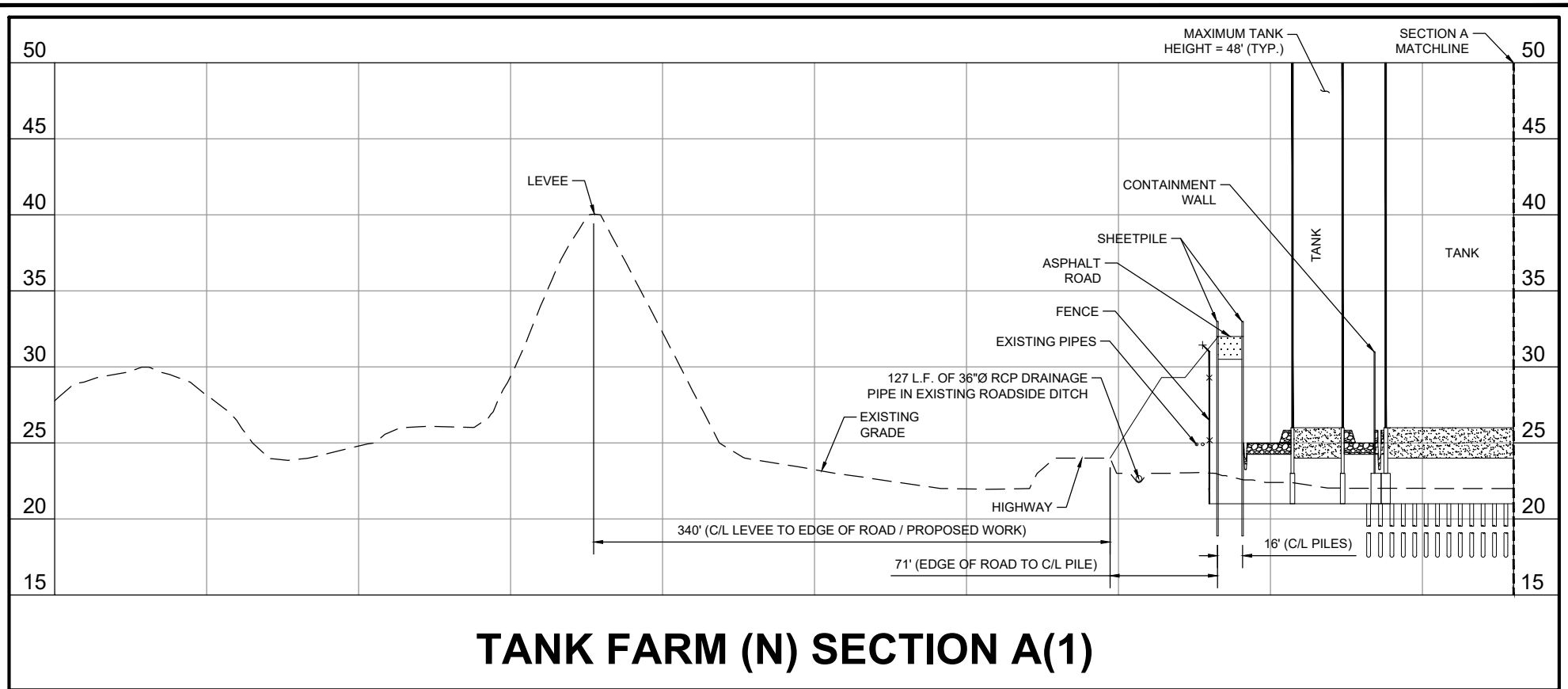
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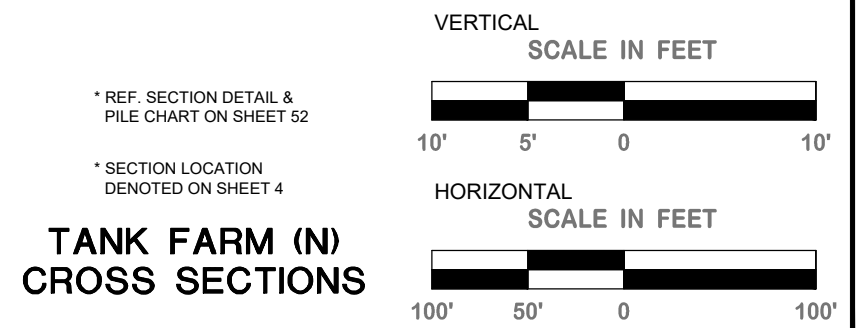
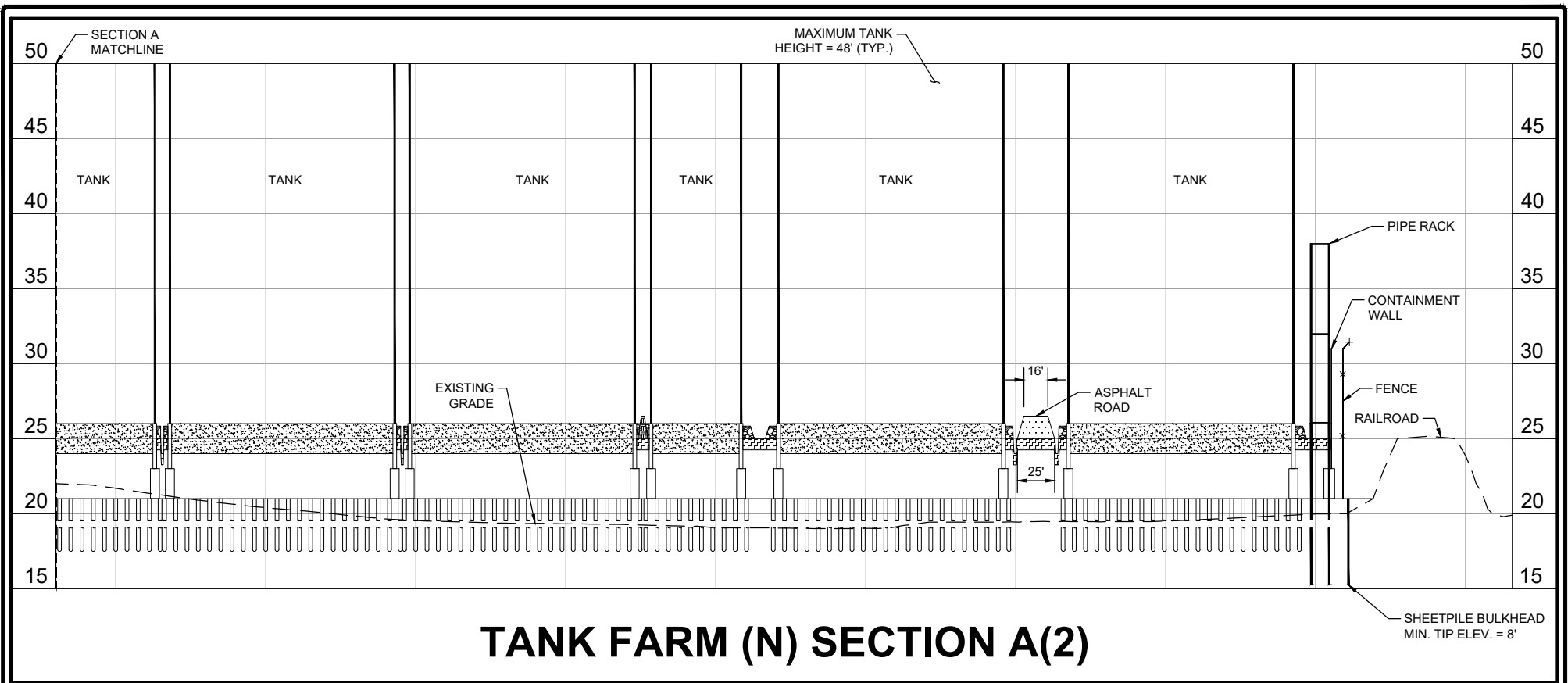
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TANK FARM (N) CROSS SECTIONS

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REG GEISMAR TRAIN B GEISMAR, LOUISIANA ASCENSION PARISH FOR REG GEISMAR, LLC GEISMAR, LOUISIANA
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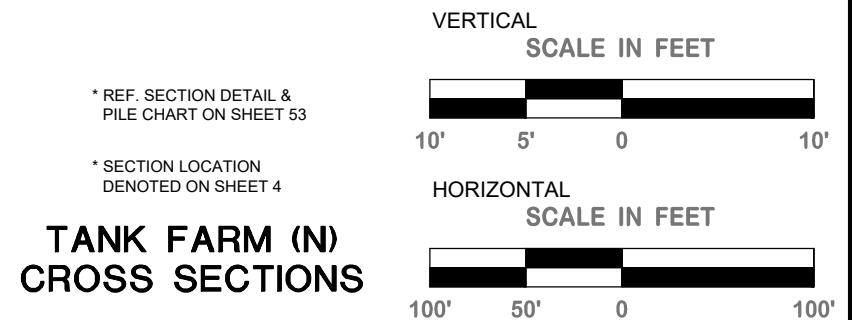
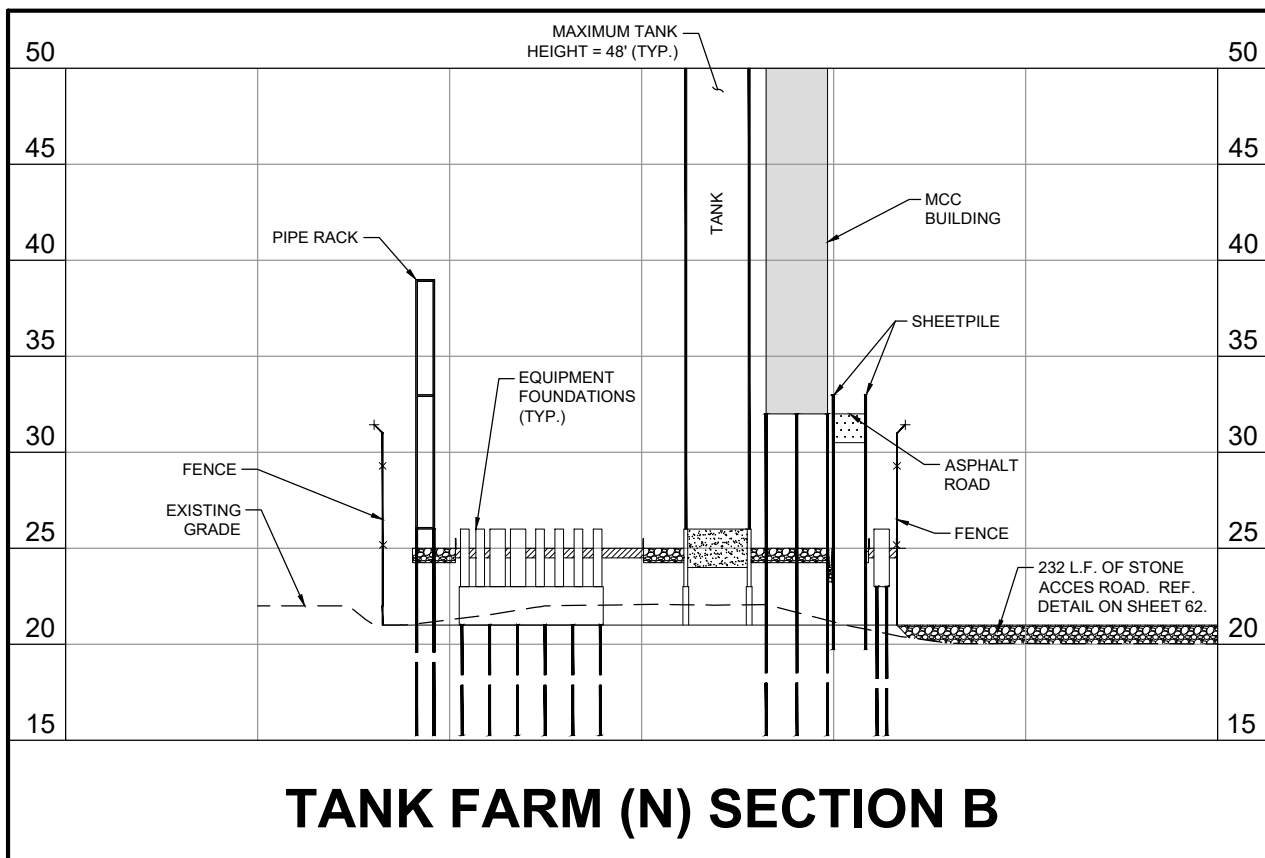
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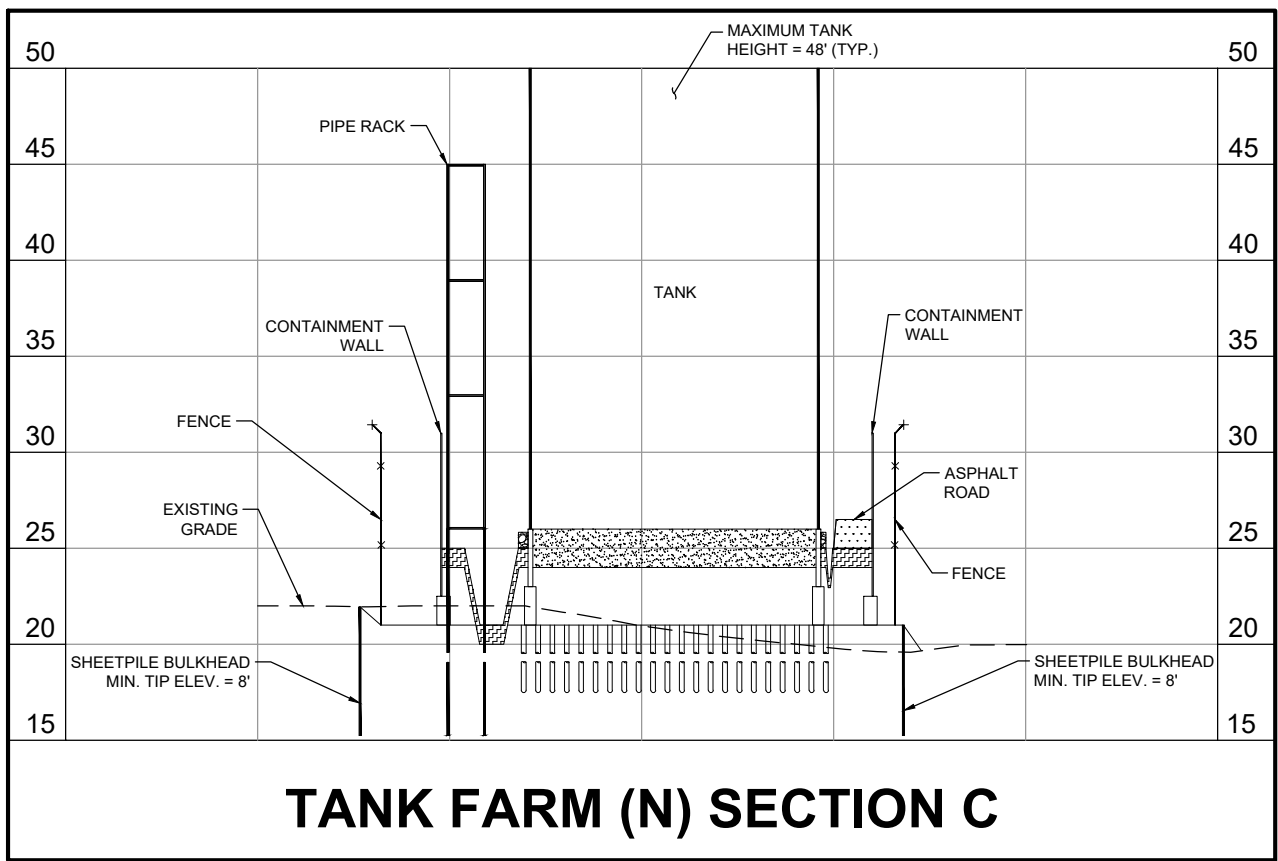
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* REF. SECTION DETAIL & PILE CHART ON SHEET 54

* SECTION LOCATION DENOTED ON SHEET 4

VERTICAL
SCALE IN FEET



HORIZONTAL
SCALE IN FEET



**TANK FARM (N)
CROSS SECTIONS**

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REG GEISMAR TRAIN B GEISMAR, LOUISIANA ASCENSION PARISH FOR REG GEISMAR, LLC GEISMAR, LOUISIANA
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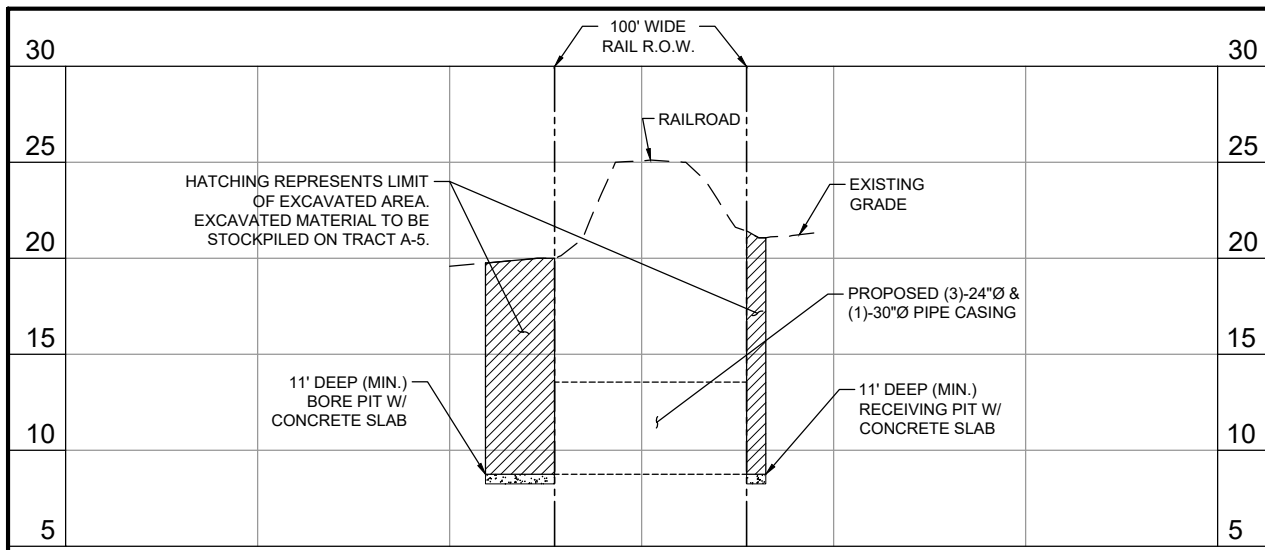
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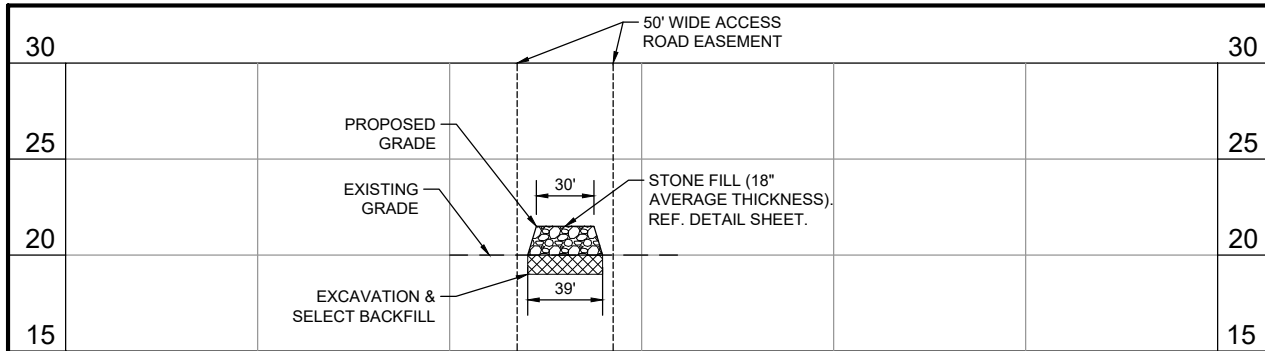
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TANK FARM (N) SECTION D



TANK FARM (N) SECTION E

* SECTION LOCATIONS
DENOTED ON SHEET 4

TANK FARM (N) CROSS SECTIONS

VERTICAL
SCALE IN FEET



HORIZONTAL
SCALE IN FEET



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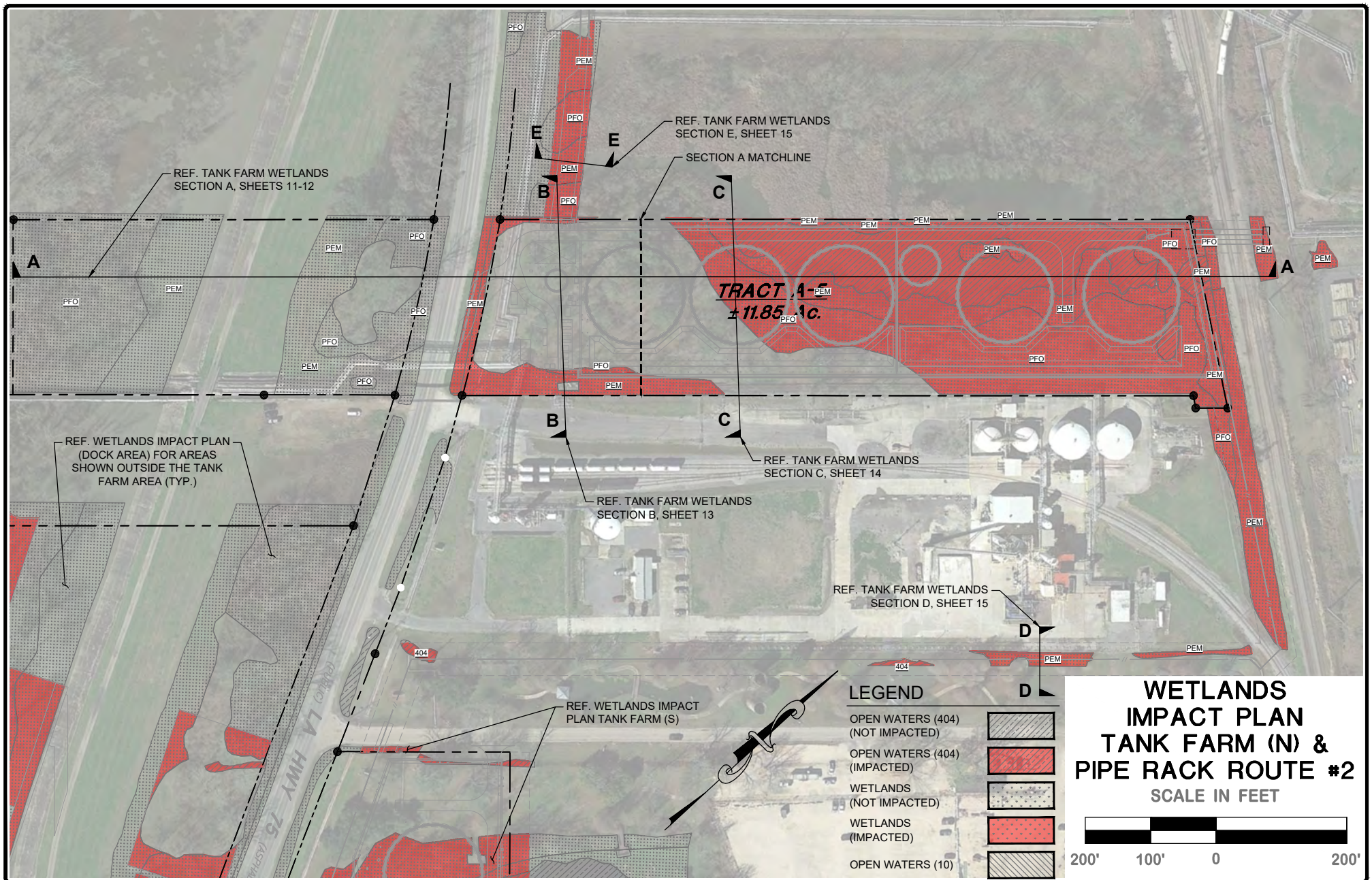
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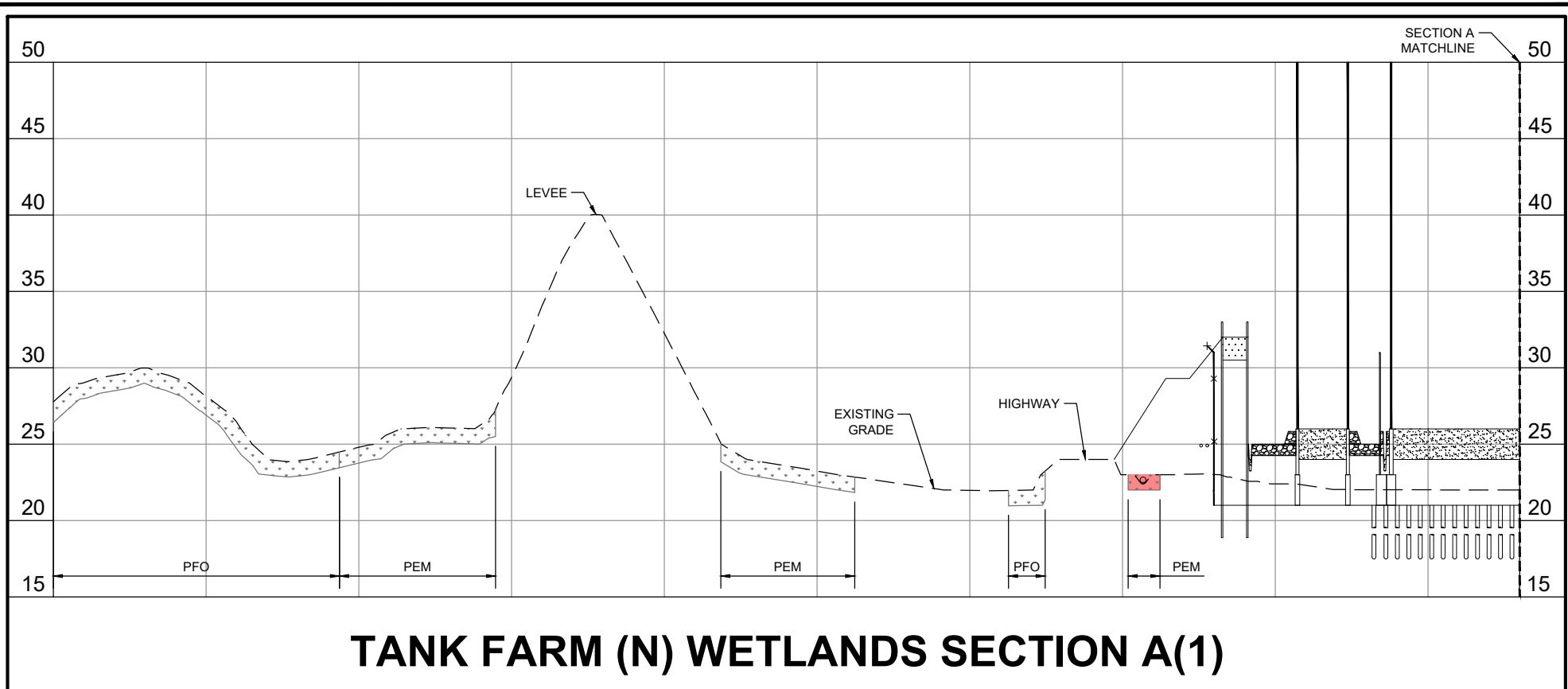
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LEGEND

OPEN WATERS (404) (NOT IMPACTED)	
OPEN WATERS (404) (IMPACTED)	
WETLANDS (NOT IMPACTED)	
WETLANDS (IMPACTED)	
OPEN WATERS (10)	

* SECTION LOCATION
DENOTED ON SHEET 10

**WETLANDS IMPACT
TANK FARM (N)
& PIPE RACK
ROUTE #2
CROSS SECTIONS**

VERTICAL
SCALE IN FEET



HORIZONTAL
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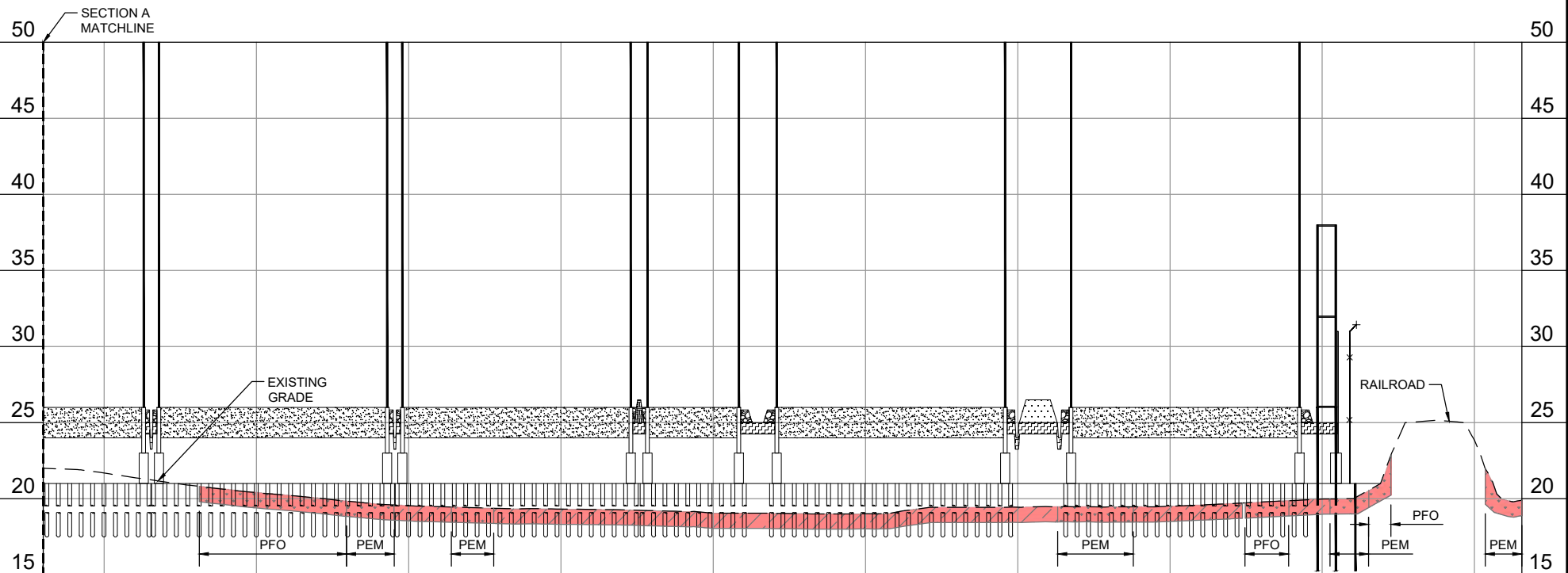
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TANK FARM (N) WETLANDS SECTION A(2)

LEGEND

OPEN WATERS (404) (NOT IMPACTED)	
OPEN WATERS (404) (IMPACTED)	
WETLANDS (NOT IMPACTED)	
WETLANDS (IMPACTED)	
OPEN WATERS (10)	

* SECTION LOCATION
DENOTED ON SHEET 10

WETLANDS IMPACT TANK FARM (N) & PIPE RACK ROUTE #2 CROSS SECTIONS

VERTICAL
SCALE IN FEET



HORIZONTAL
SCALE IN FEET



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GEISMAR, LOUISIANA
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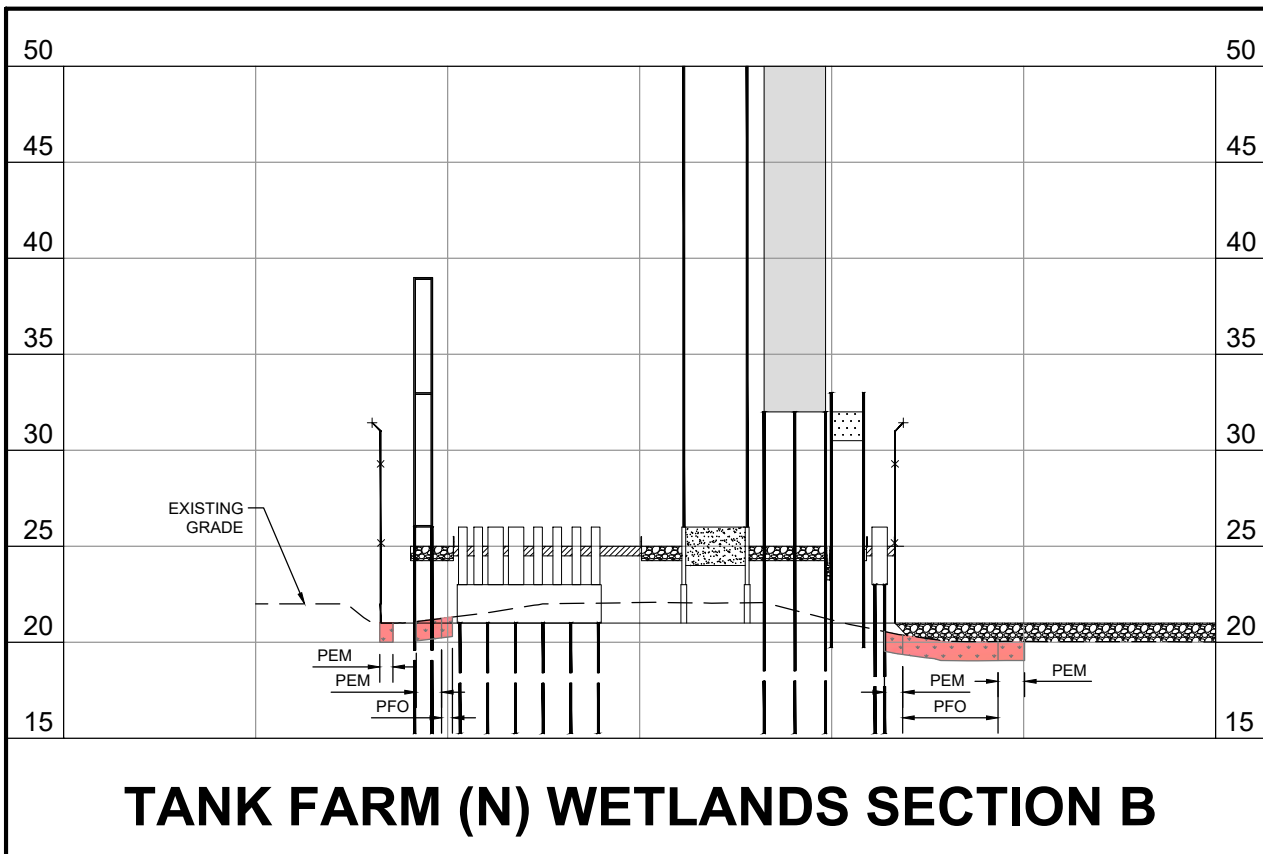
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TANK FARM (N) WETLANDS SECTION B

LEGEND

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WETLANDS (NOT IMPACTED)	
WETLANDS (IMPACTED)	
OPEN WATERS (10)	

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DENOTED ON SHEET 10

WETLANDS IMPACT TANK FARM (N) & PIPE RACK ROUTE #2 CROSS SECTIONS

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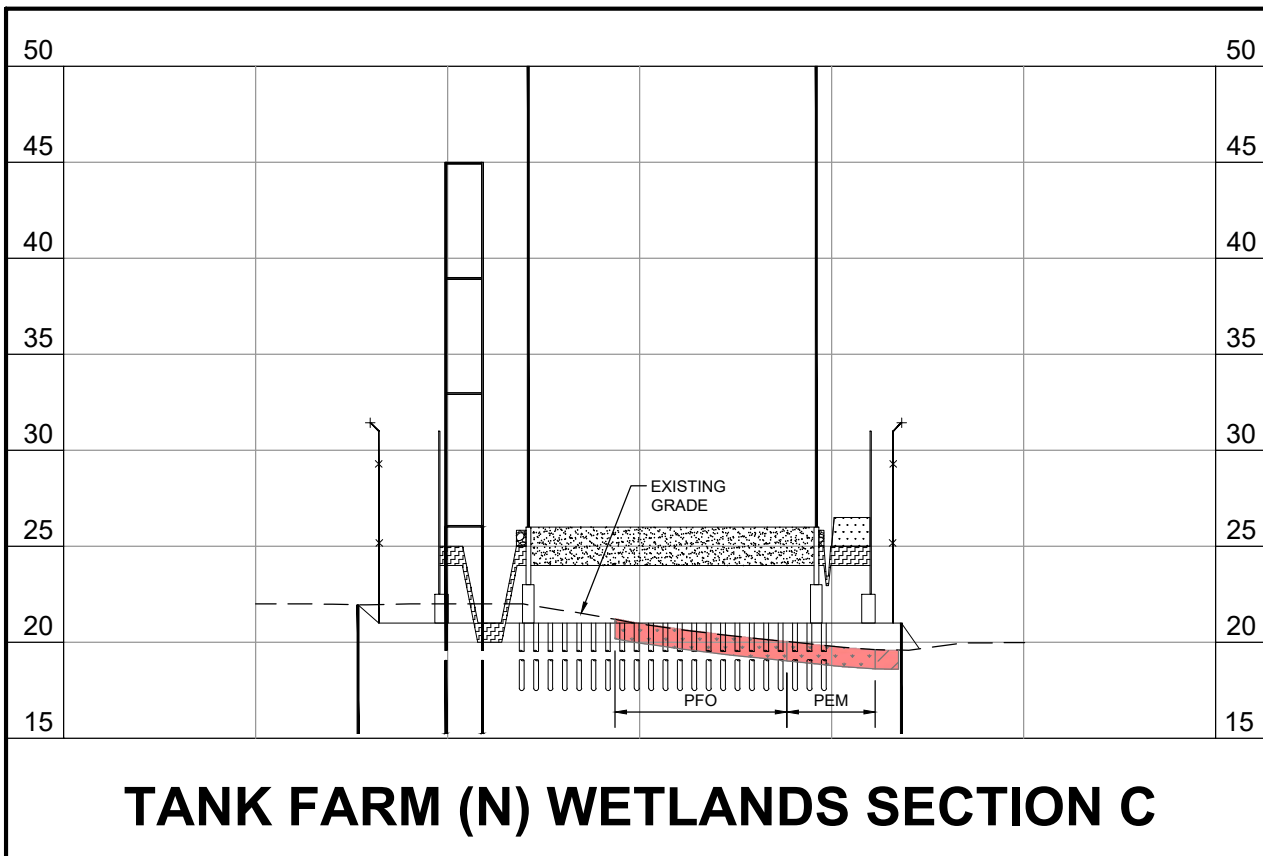
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WETLANDS (NOT IMPACTED)	
WETLANDS (IMPACTED)	
OPEN WATERS (10)	

* SECTION LOCATION
DENOTED ON SHEET 10

**WETLANDS IMPACT
TANK FARM (N)
& PIPE RACK
ROUTE #2
CROSS SECTIONS**

VERTICAL
SCALE IN FEET



HORIZONTAL
SCALE IN FEET



DRAWN GJP
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ISSUE DATE 11-10-2020
PROJECT NO. 18-678

**REG GEISMAR
TRAIN B**
GEISMAR, LOUISIANA
ASCENSION PARISH

FOR REG GEISMAR, LLC
GEISMAR, LOUISIANA

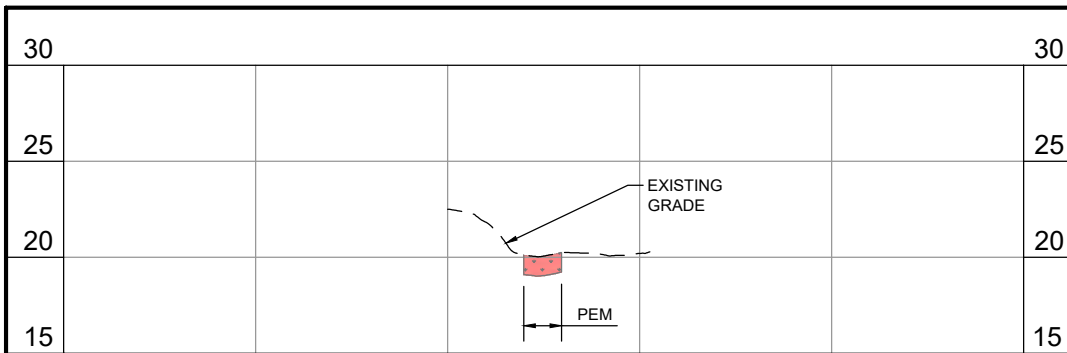
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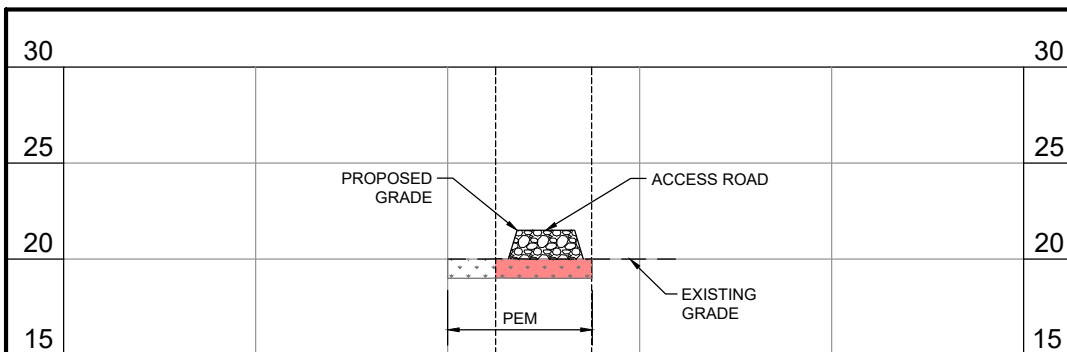
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TANK FARM (N) WETLANDS SECTION D



TANK FARM (N) WETLANDS SECTION E

LEGEND

OPEN WATERS (404) (NOT IMPACTED)	
OPEN WATERS (404) (IMPACTED)	
WETLANDS (NOT IMPACTED)	
WETLANDS (IMPACTED)	
OPEN WATERS (10)	

* SECTION LOCATIONS
DENOTED ON SHEET 10

WETLANDS IMPACT TANK FARM (N) & PIPE RACK ROUTE #2 CROSS SECTIONS

VERTICAL
SCALE IN FEET



HORIZONTAL
SCALE IN FEET



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18-678

**REG GEISMAR
TRAIN B**
GEISMAR, LOUISIANA
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GEISMAR, LOUISIANA

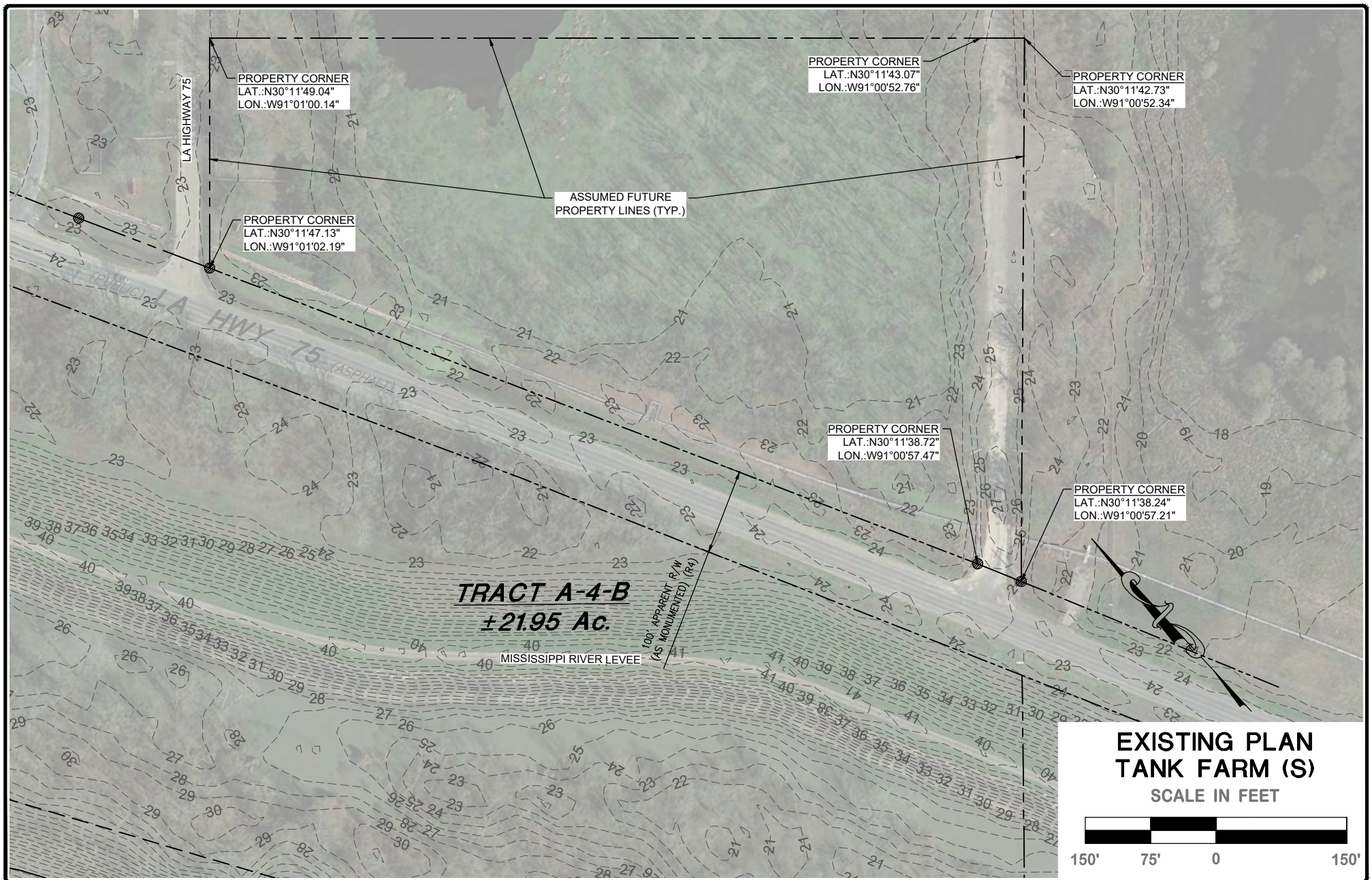
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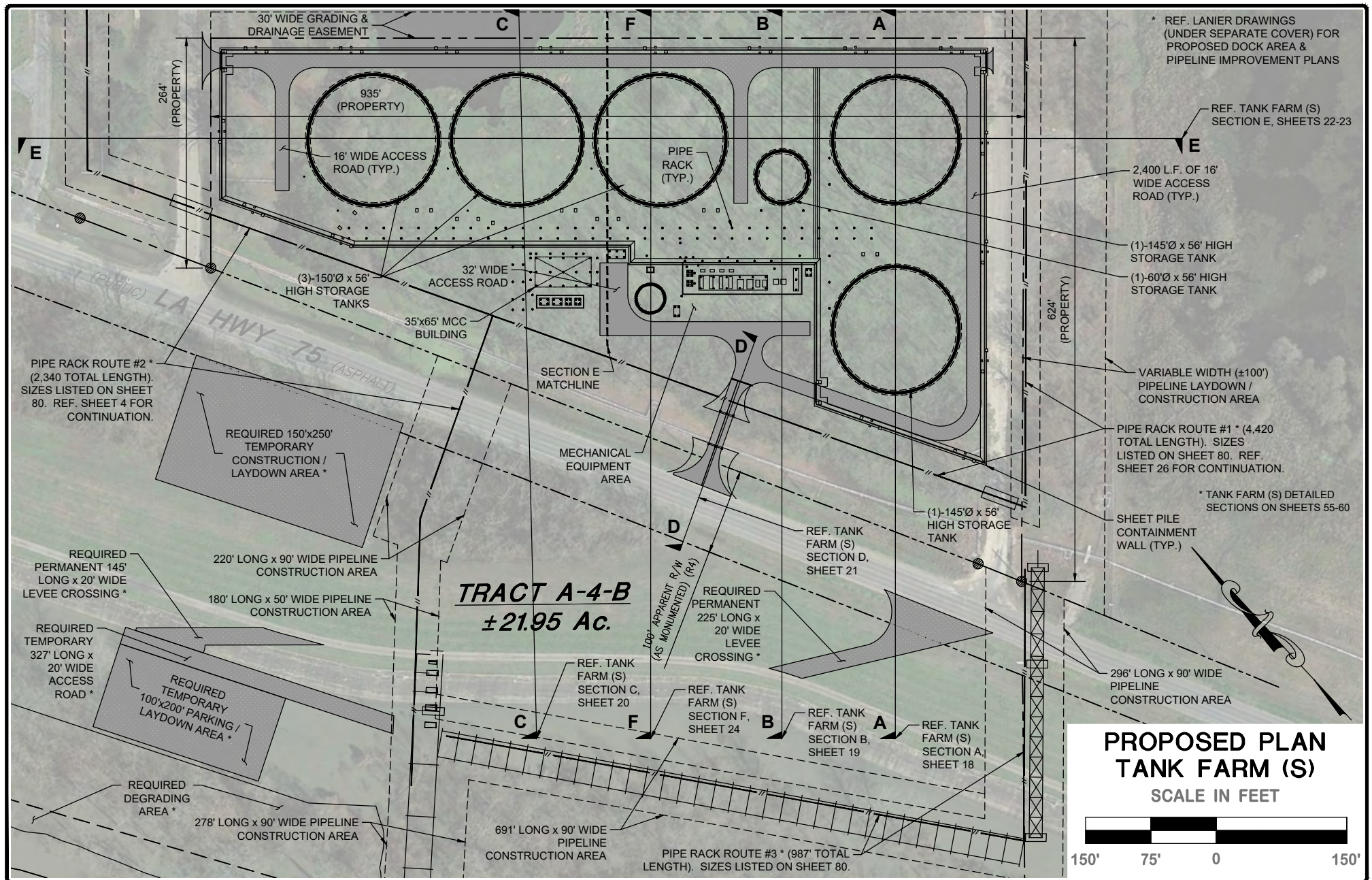
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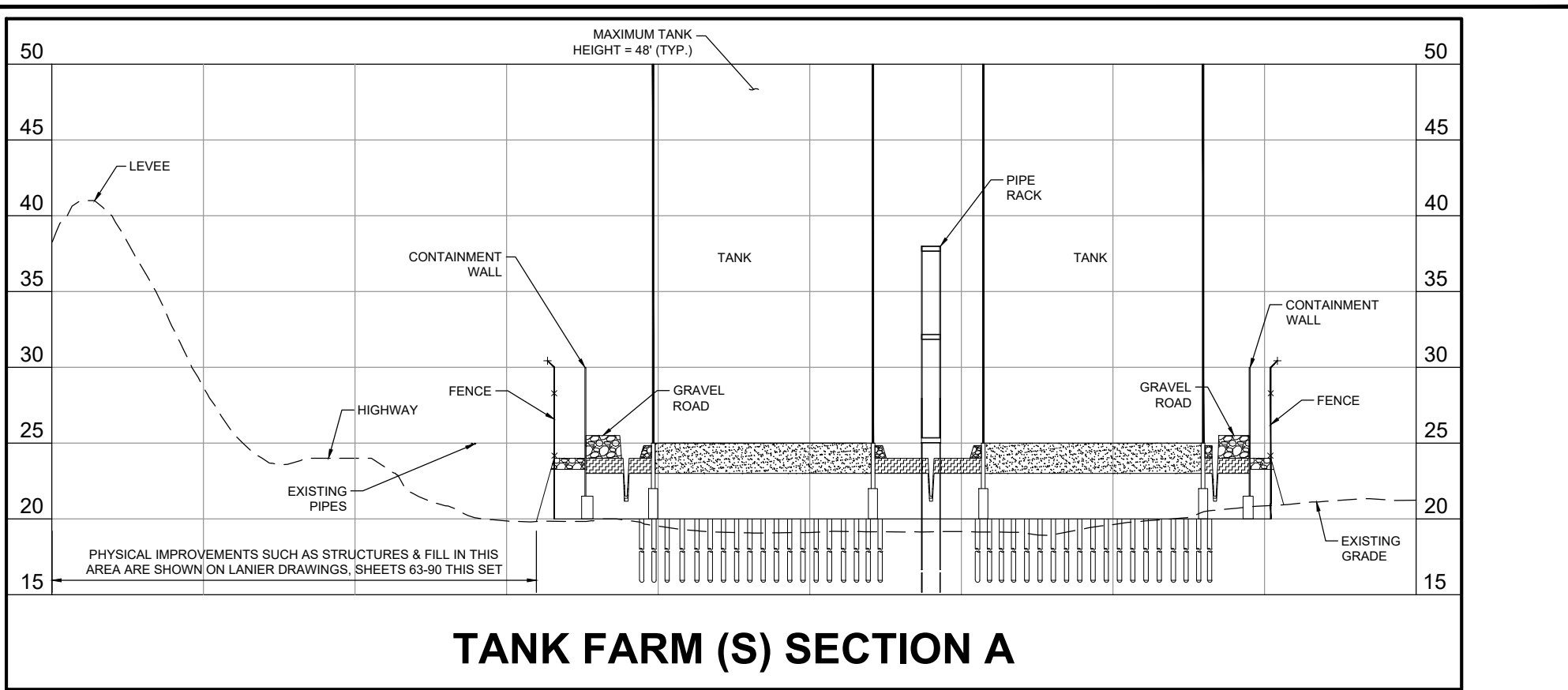
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TANK FARM (S) SECTION A

NOTE:
EXISTING GRADE WEST OF
HIGHWAY SHOWN FOR
REFERENCE ONLY. REFERENCE
DRAWINGS BY LANIER FOR
PROPOSED IMPROVEMENTS.

TANK FARM (S) CROSS SECTIONS

* REF. SECTION DETAIL &
PILE CHART ON SHEET 55

* SECTION LOCATION
DENOTED ON SHEET 17

VERTICAL
SCALE IN FEET



HORIZONTAL
SCALE IN FEET



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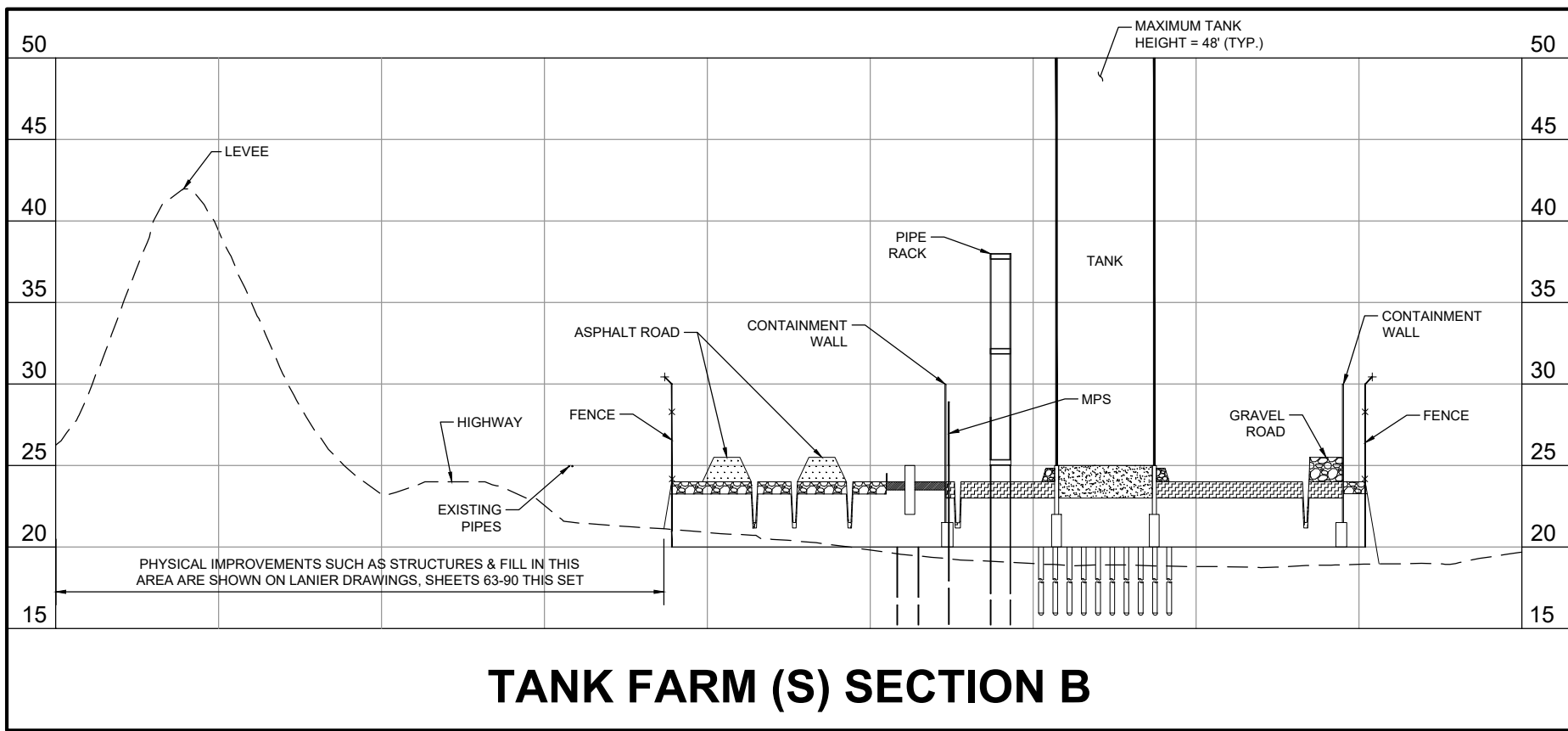
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TANK FARM (S) SECTION B

NOTE:
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TANK FARM (S) CROSS SECTIONS

* REF. SECTION DETAIL &
PILE CHART ON SHEET 56

* SECTION LOCATION
DENOTED ON SHEET 17

VERTICAL
SCALE IN FEET



HORIZONTAL
SCALE IN FEET



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**REG GEISMAR
TRAIN B**
GEISMAR, LOUISIANA
ASCENSION PARISH

FOR REG GEISMAR, LLC
GEISMAR, LOUISIANA

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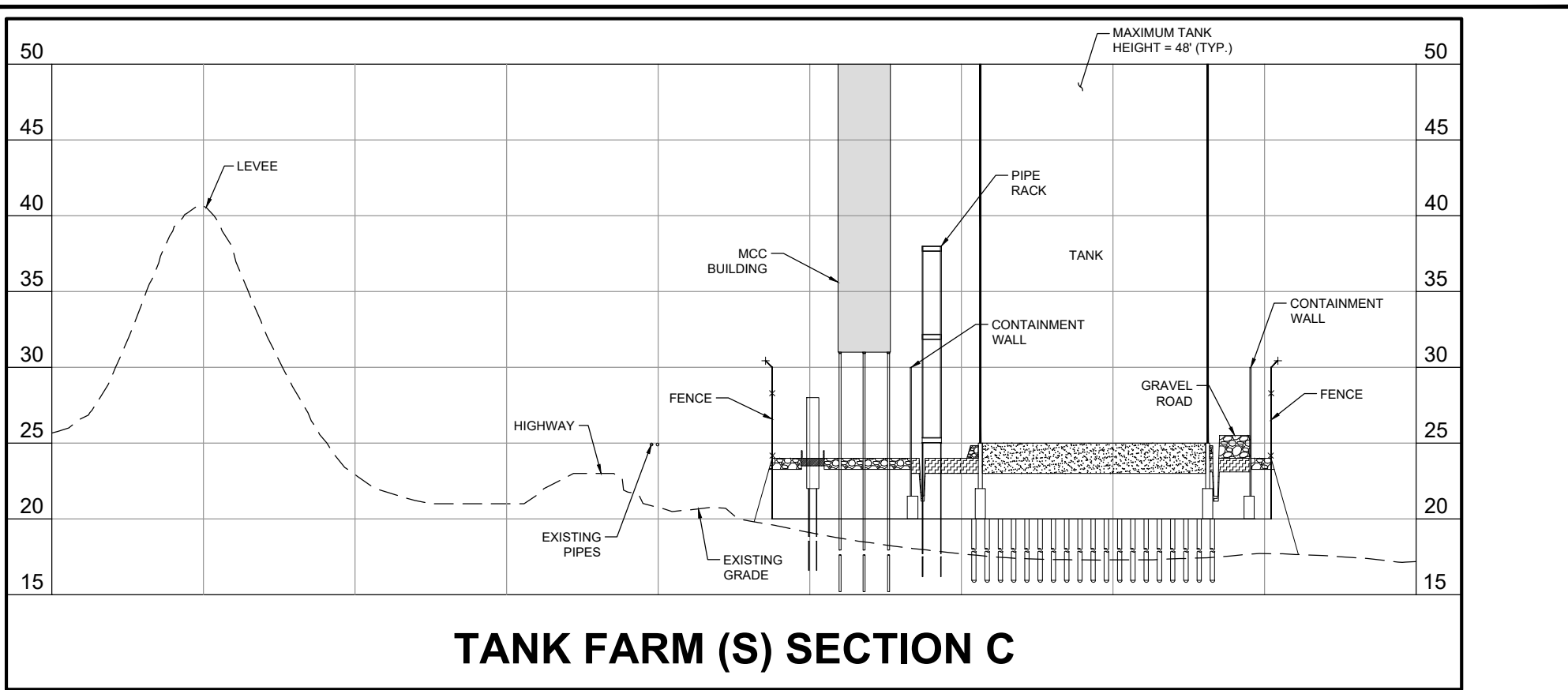
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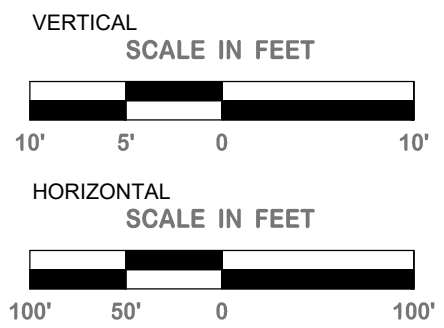


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EXISTING GRADE WEST OF
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PROPOSED IMPROVEMENTS.

* REF. SECTION DETAIL &
PILE CHART ON SHEET 57

* SECTION LOCATION
DENOTED ON SHEET 17

TANK FARM (S) CROSS SECTIONS



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REG GEISMAR TRAIN B GEISMAR, LOUISIANA ASCENSION PARISH FOR REG GEISMAR, LLC GEISMAR, LOUISIANA
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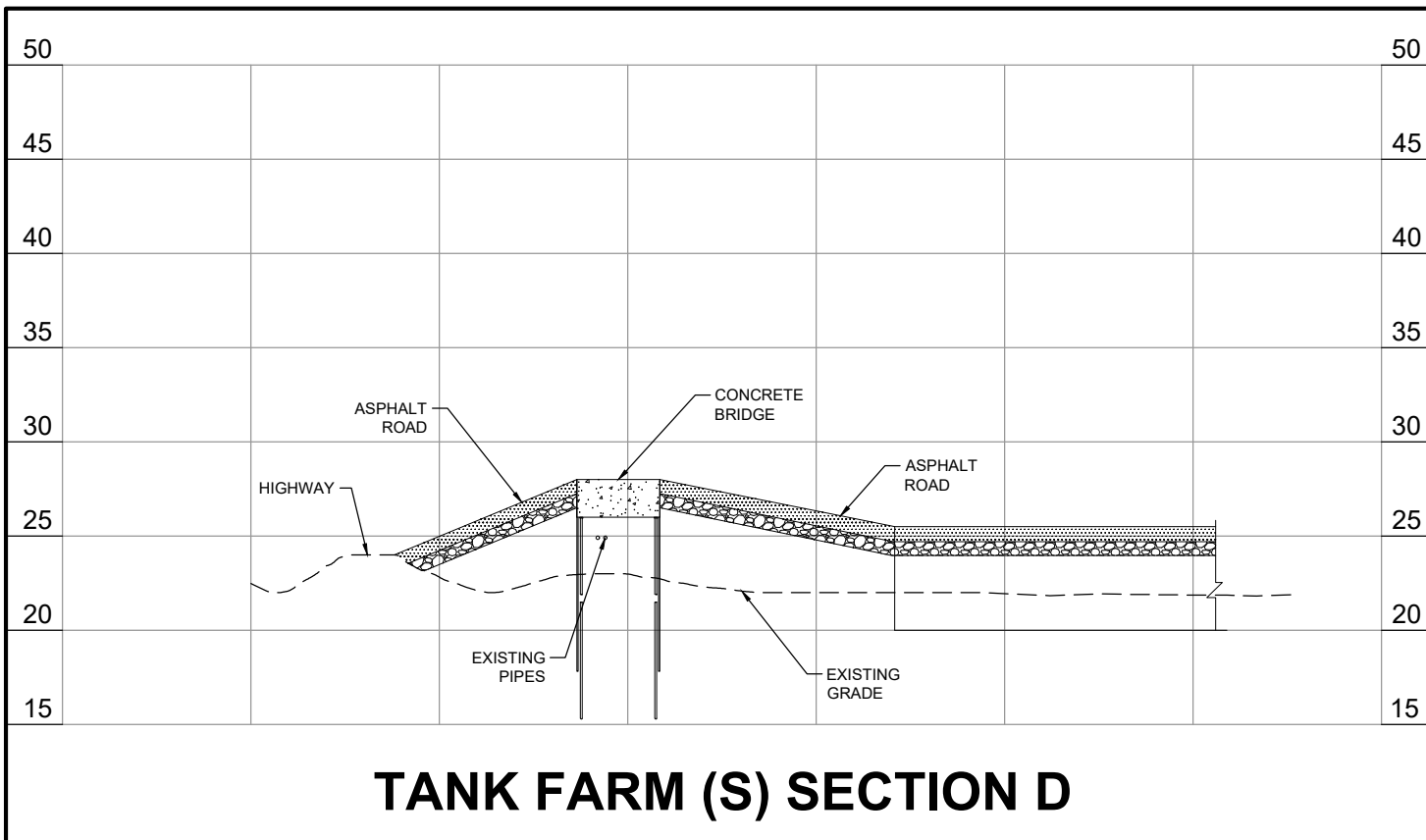
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* REF. SECTION DETAIL &
PILE CHART ON SHEET 58

* SECTION LOCATION
DENOTED ON SHEET 17

TANK FARM (S) CROSS SECTIONS

VERTICAL
SCALE IN FEET



HORIZONTAL
SCALE IN FEET



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**REG GEISMAR
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GEISMAR, LOUISIANA
ASCENSION PARISH

FOR REG GEISMAR, LLC
GEISMAR, LOUISIANA

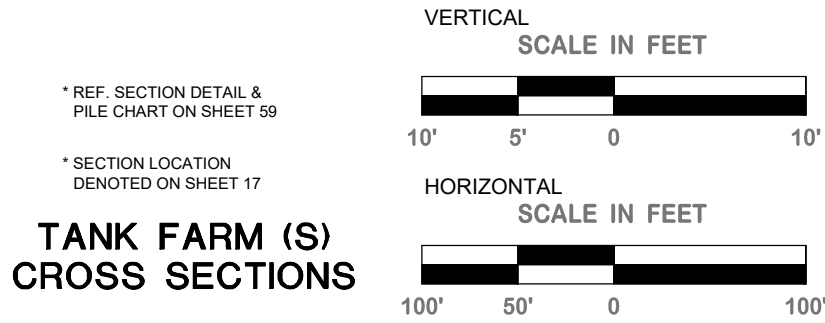
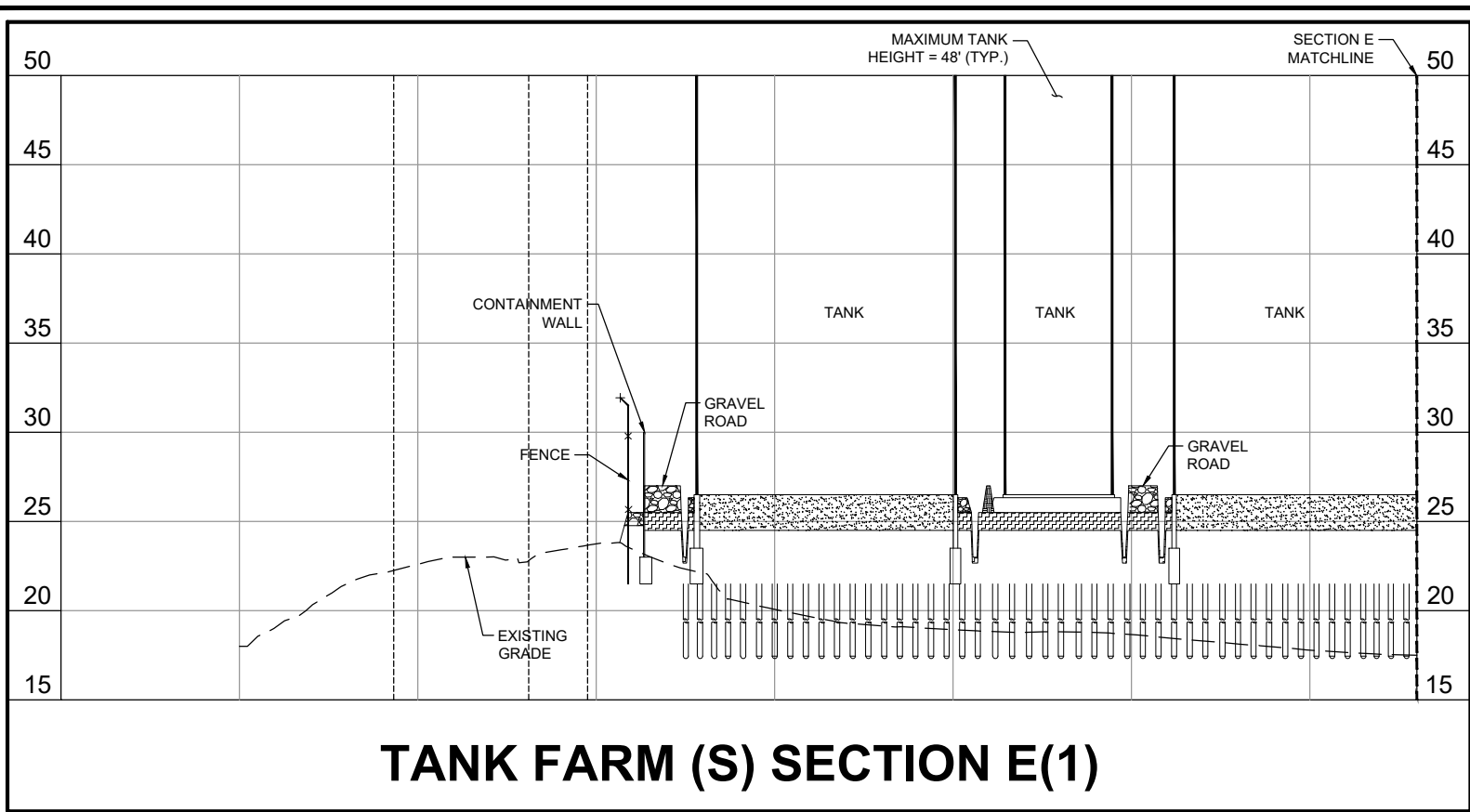
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**REG GEISMAR
TRAIN B**

GEISMAR, LOUISIANA
ASCENSION PARISH

FOR REG GEISMAR, LLC
GEISMAR, LOUISIANA

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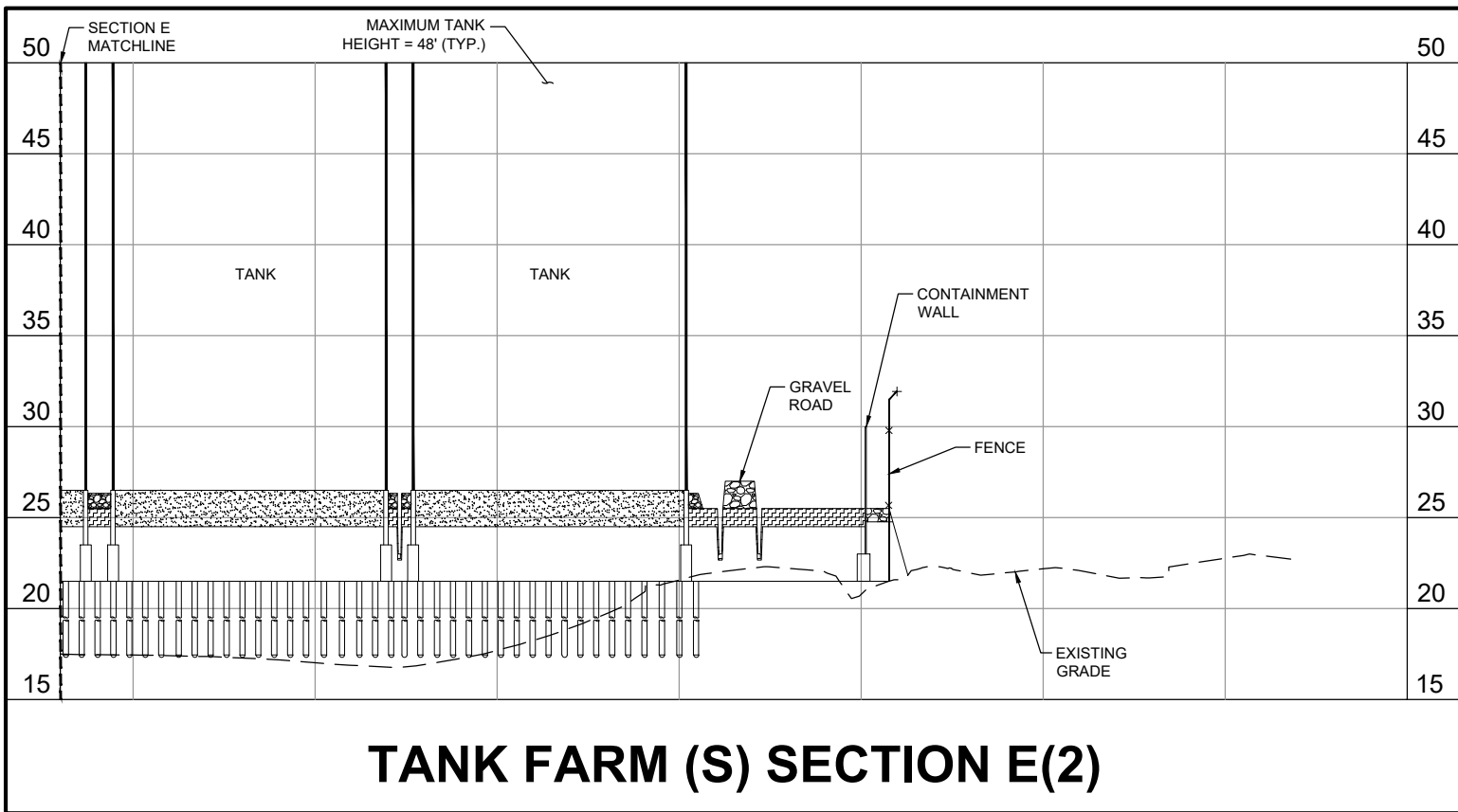
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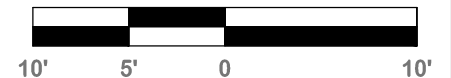


* REF. SECTION DETAIL &
PILE CHART ON SHEET 59

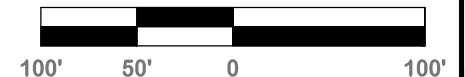
* SECTION LOCATION
DENOTED ON SHEET 17

TANK FARM (S) CROSS SECTIONS

VERTICAL
SCALE IN FEET



HORIZONTAL
SCALE IN FEET



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**REG GEISMAR
TRAIN B**
GEISMAR, LOUISIANA
ASCENSION PARISH

FOR REG GEISMAR, LLC
GEISMAR, LOUISIANA

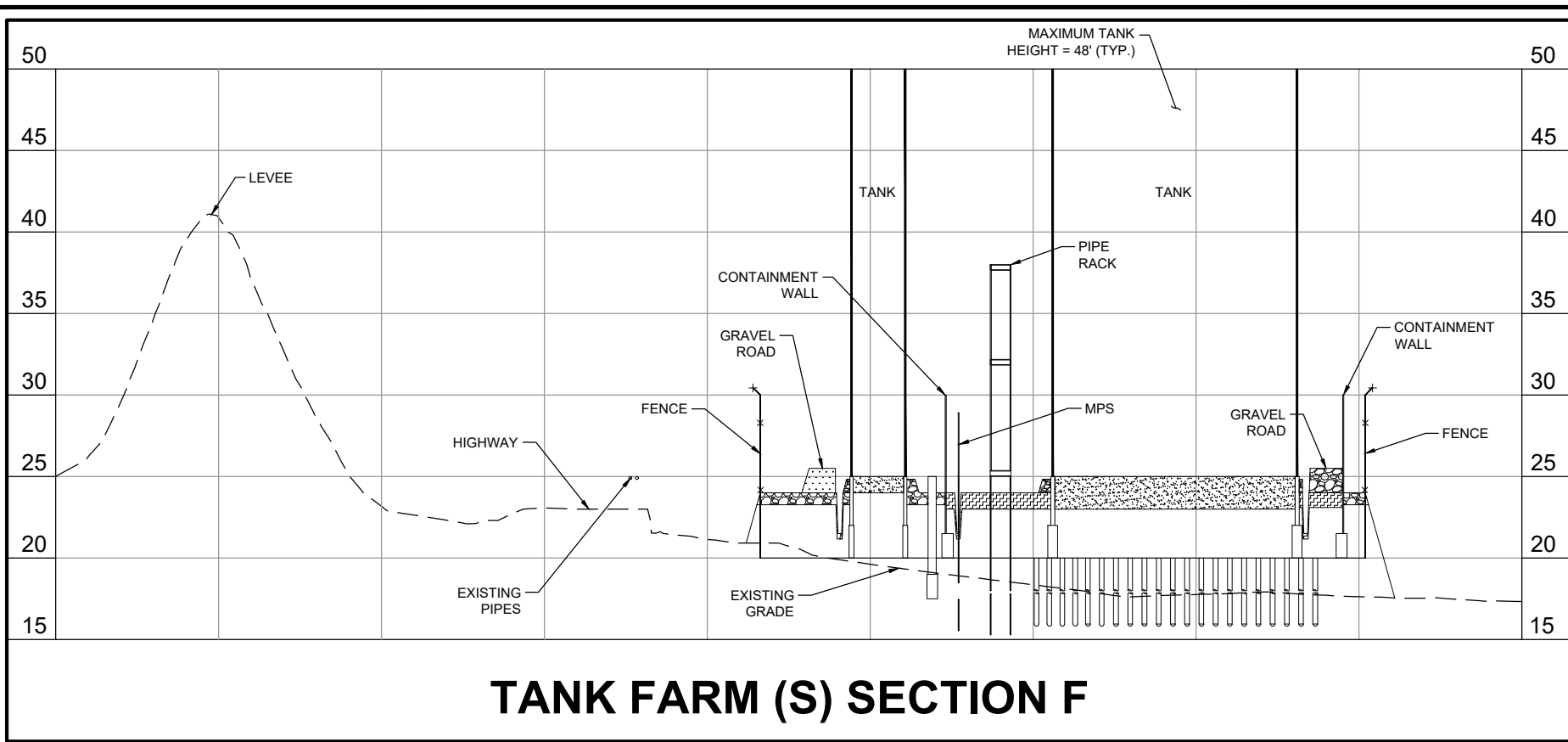
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TANK FARM (S) SECTION F

NOTE:
EXISTING GRADE WEST OF
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REFERENCE. REFERENCE
DRAWINGS BY LANIER FOR
PROPOSED IMPROVEMENTS.

* REF. SECTION DETAIL &
PILE CHART ON SHEET 60

* SECTION LOCATION
DENOTED ON SHEET 17

TANK FARM (S) CROSS SECTIONS

VERTICAL
SCALE IN FEET



HORIZONTAL
SCALE IN FEET



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18-678

REG GEISMAR
TRAIN B

GEISMAR, LOUISIANA
ASCENSION PARISH

FOR REG GEISMAR, LLC
GEISMAR, LOUISIANA

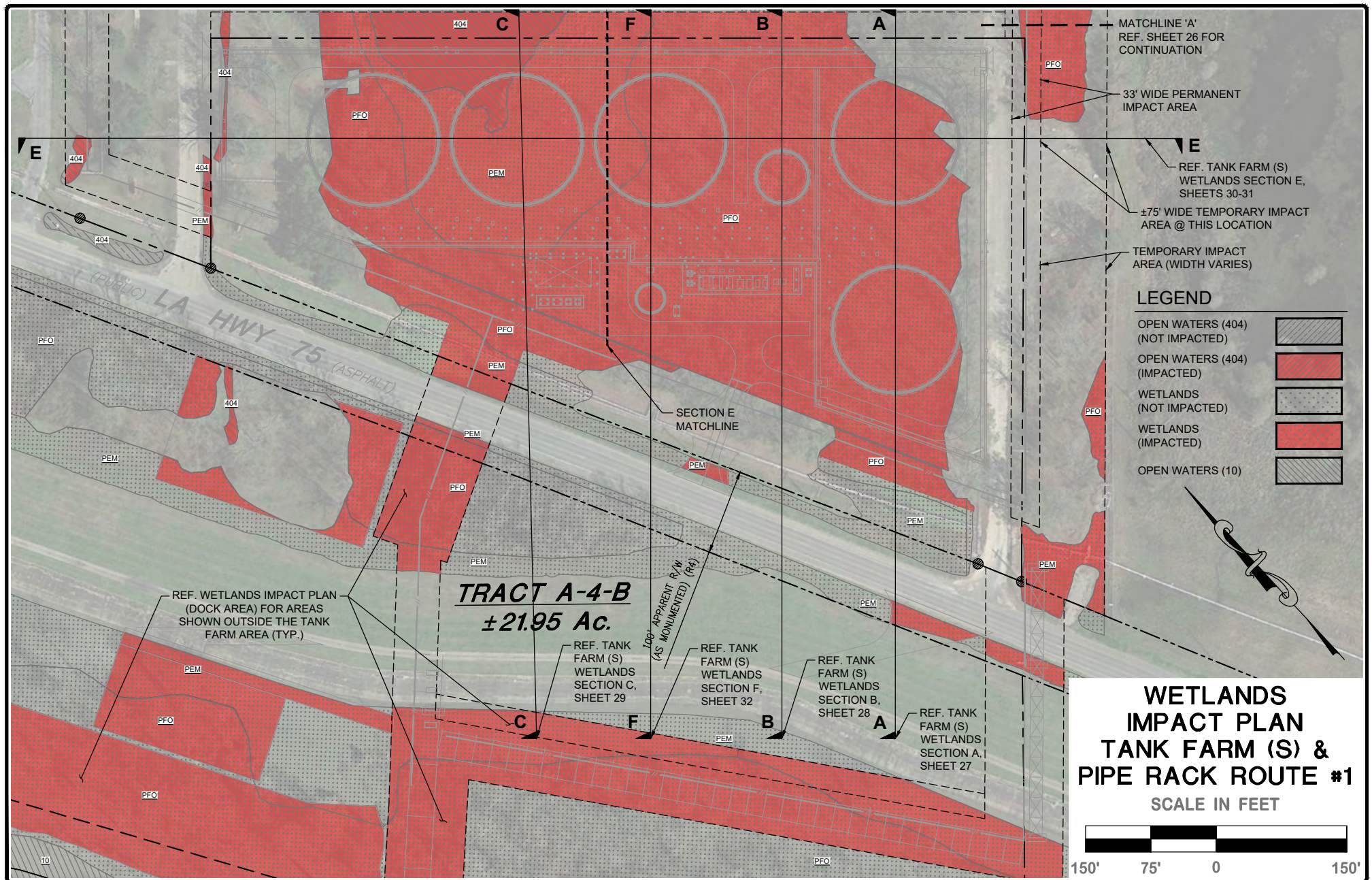
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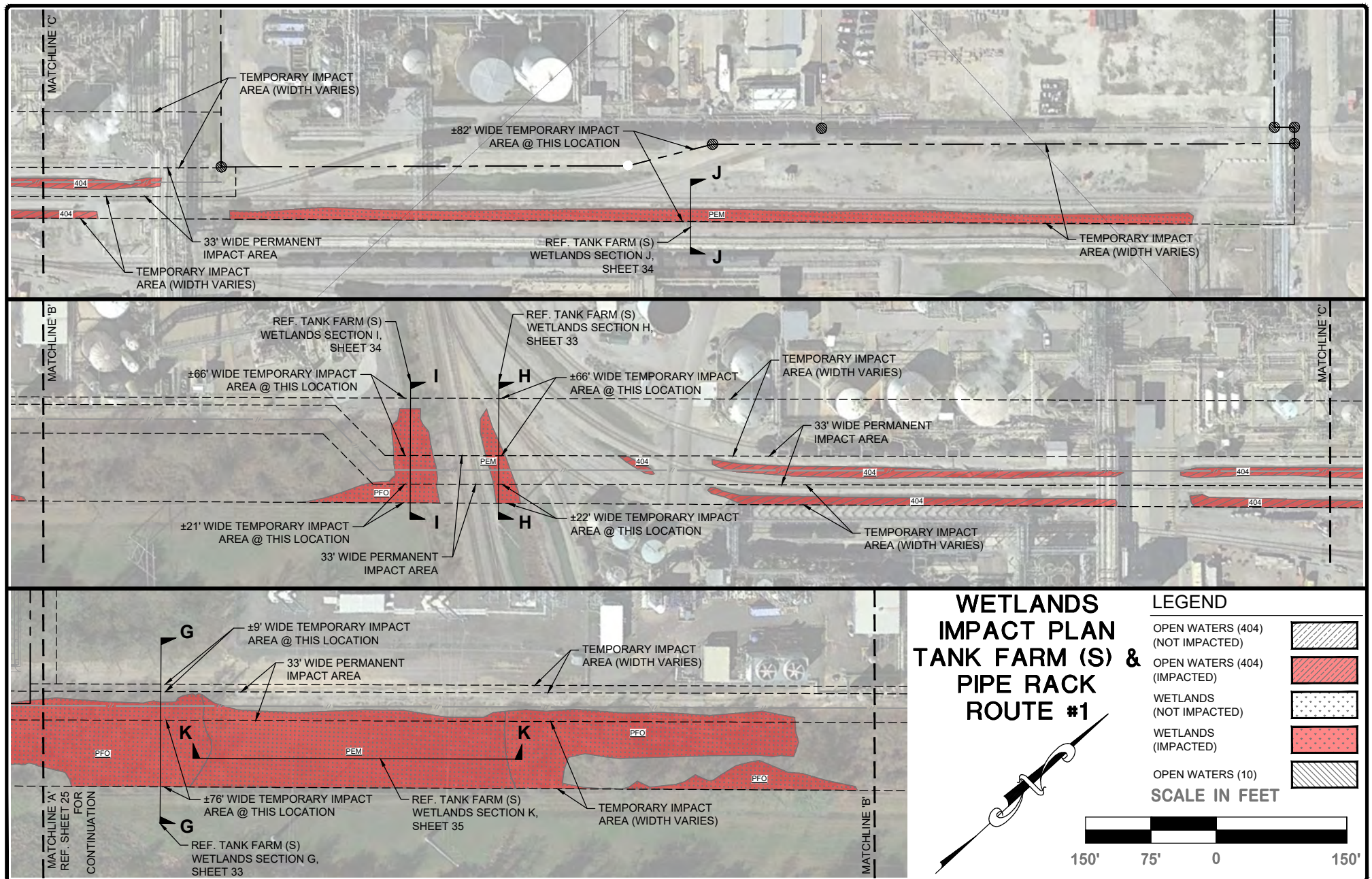
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GEISMAR, LOUISIANA

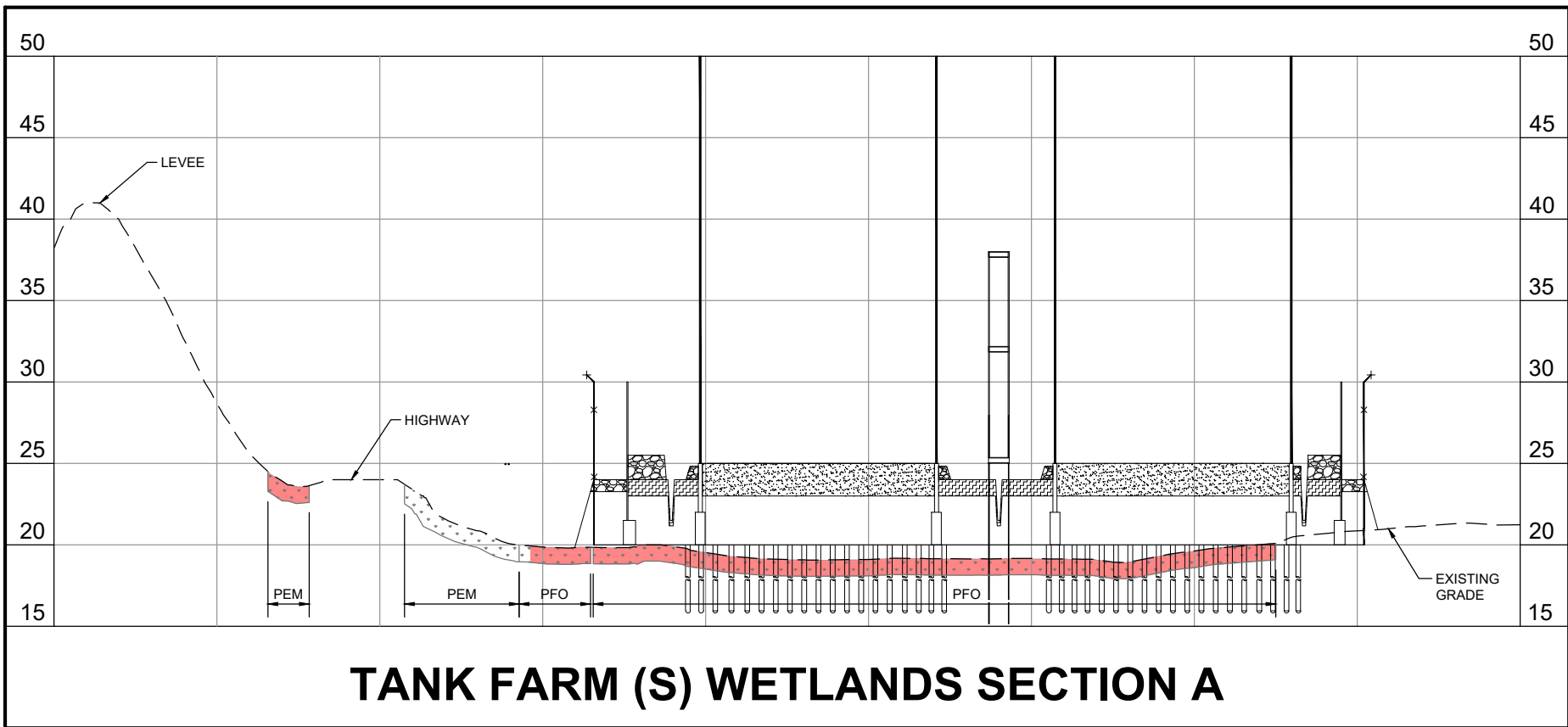
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LEGEND

OPEN WATERS (404) (NOT IMPACTED)	
OPEN WATERS (404) (IMPACTED)	
WETLANDS (NOT IMPACTED)	
WETLANDS (IMPACTED)	
OPEN WATERS (10)	

* SECTION LOCATION
DENOTED ON SHEET 25

WETLANDS IMPACT TANK FARM (S) & PIPE RACK ROUTE #1 CROSS SECTIONS

VERTICAL
SCALE IN FEET



HORIZONTAL
SCALE IN FEET



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GEISMAR, LOUISIANA
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GEISMAR, LOUISIANA

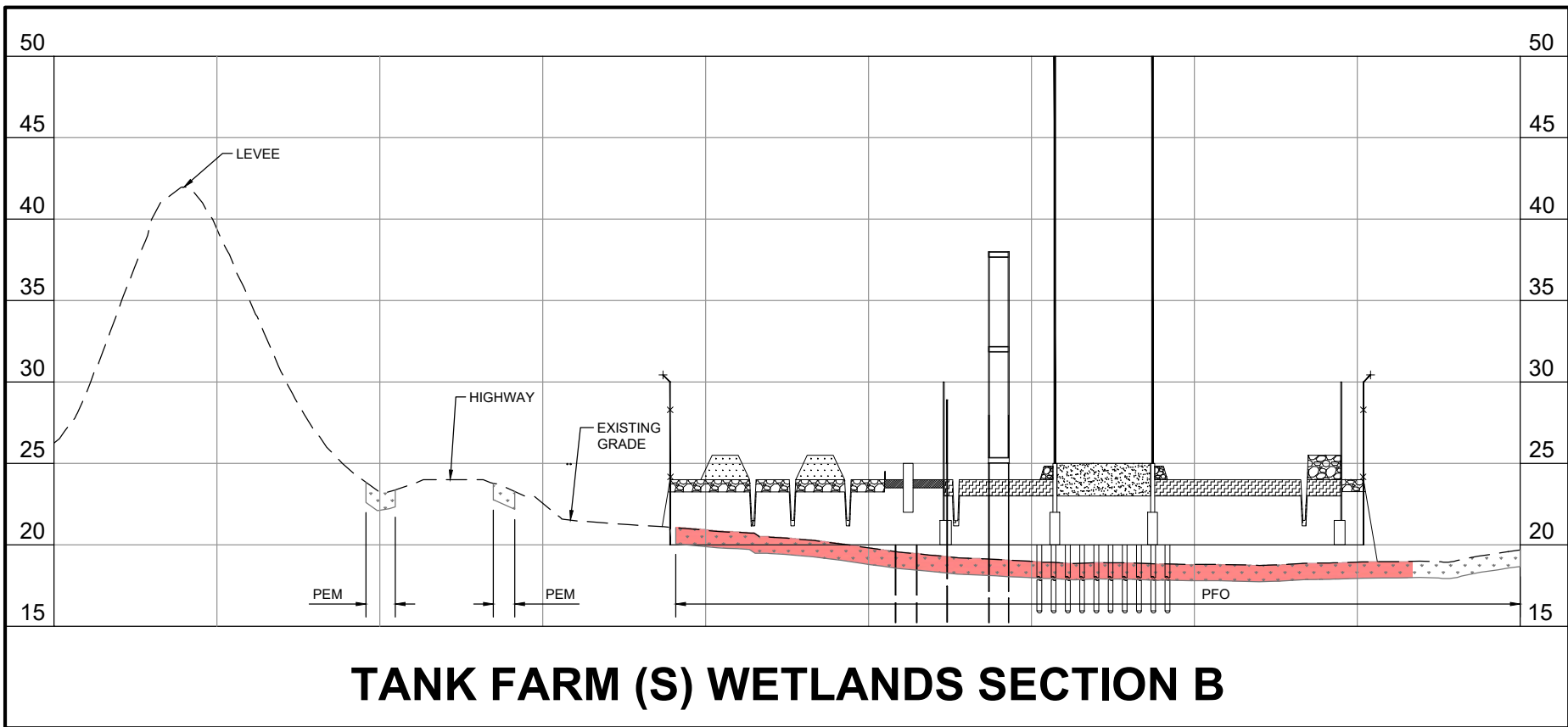
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LEGEND

OPEN WATERS (404) (NOT IMPACTED)	
OPEN WATERS (404) (IMPACTED)	
WETLANDS (NOT IMPACTED)	
WETLANDS (IMPACTED)	
OPEN WATERS (10)	

* SECTION LOCATION
DENOTED ON SHEET 25

**WETLANDS IMPACT
TANK FARM (S)
& PIPE RACK
ROUTE #1
CROSS SECTIONS**

VERTICAL
SCALE IN FEET



HORIZONTAL
SCALE IN FEET



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ASCENSION PARISH

FOR REG GEISMAR, LLC
GEISMAR, LOUISIANA

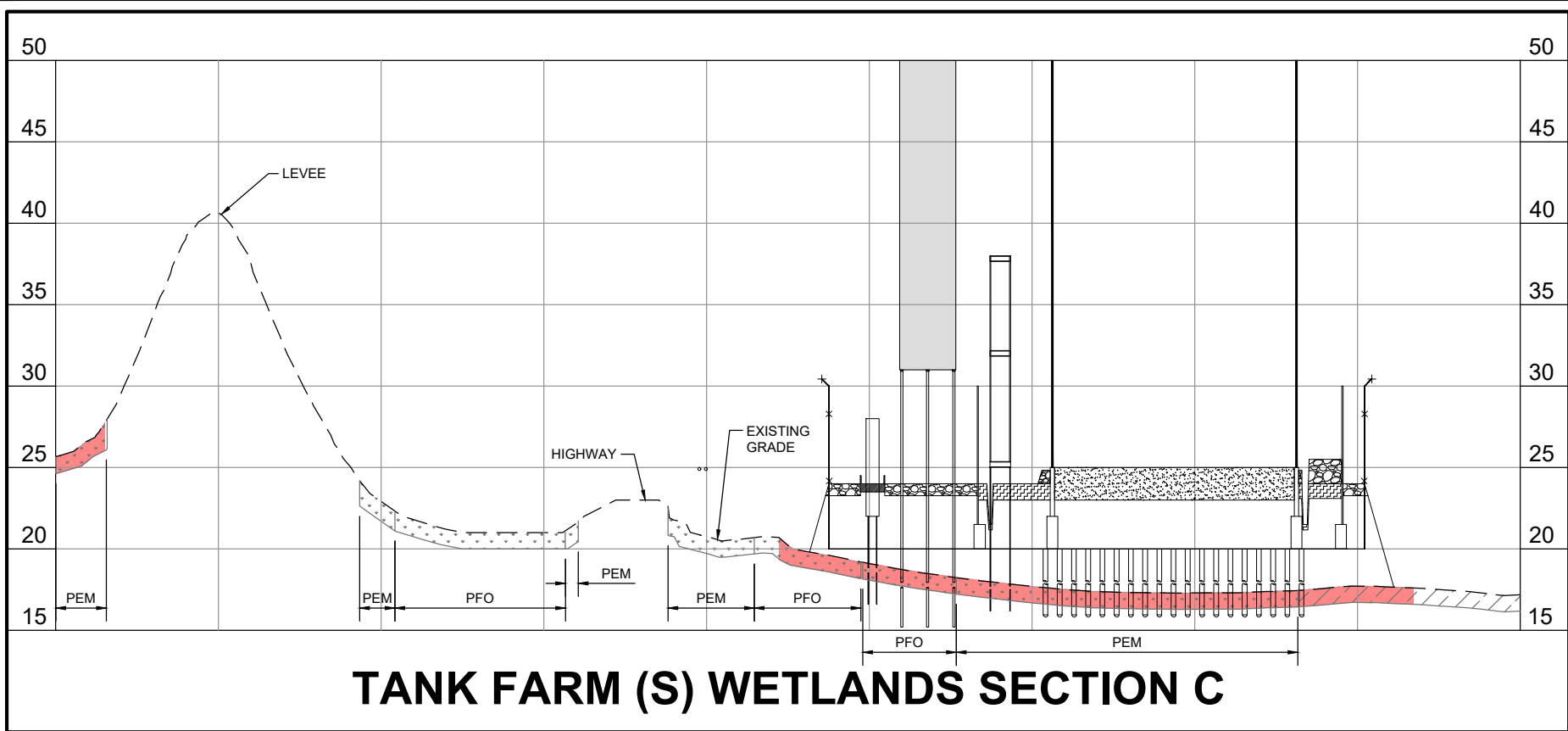
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LEGEND

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OPEN WATERS (404) (IMPACTED)	
WETLANDS (NOT IMPACTED)	
WETLANDS (IMPACTED)	
OPEN WATERS (10)	

* SECTION LOCATION
DENOTED ON SHEET 25

WETLANDS IMPACT TANK FARM (S) & PIPE RACK ROUTE #1 CROSS SECTIONS

VERTICAL
SCALE IN FEET



HORIZONTAL
SCALE IN FEET



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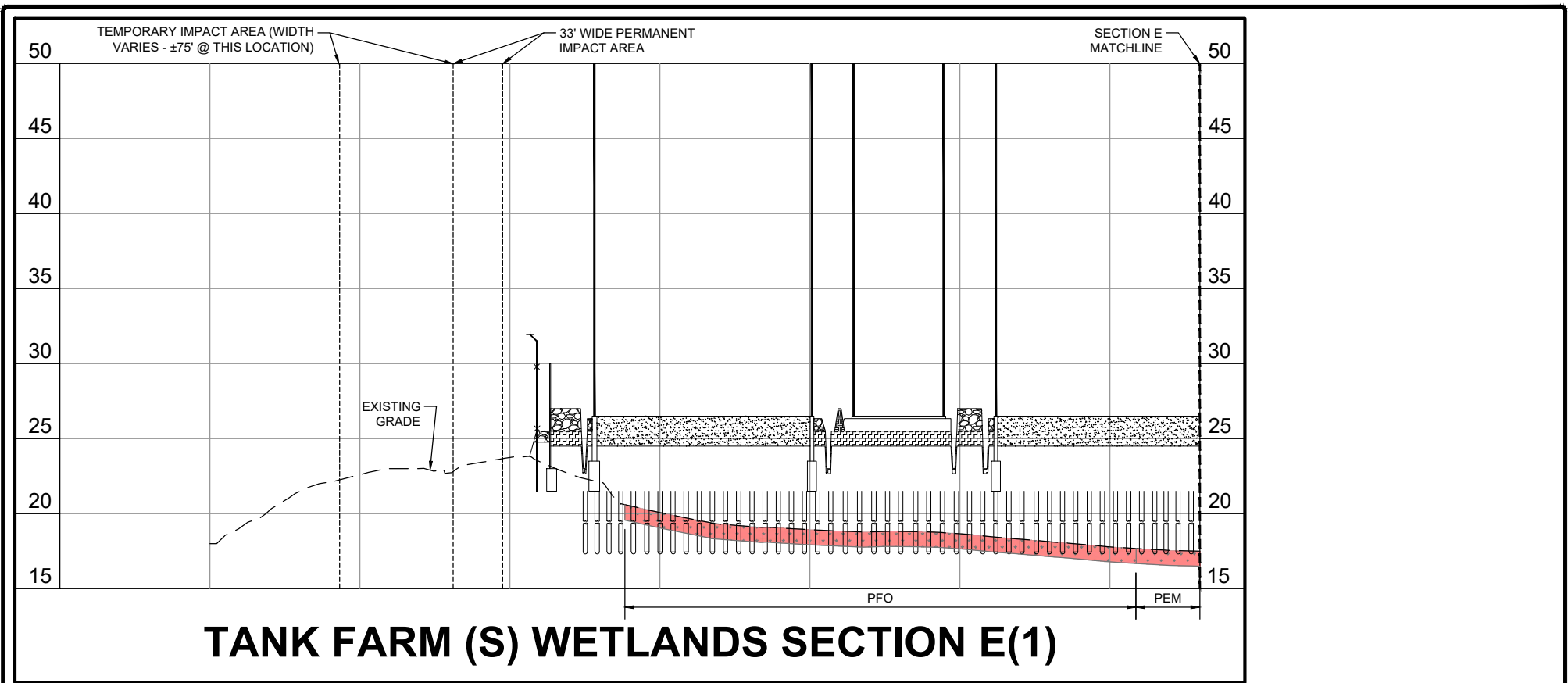
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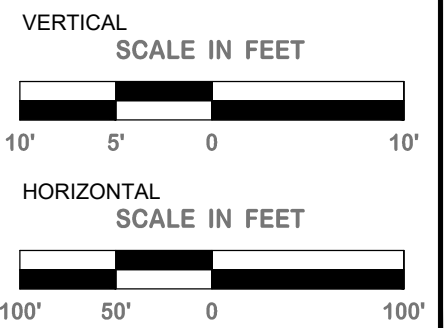


LEGEND

OPEN WATERS (404) (NOT IMPACTED)	
OPEN WATERS (404) (IMPACTED)	
WETLANDS (NOT IMPACTED)	
WETLANDS (IMPACTED)	
OPEN WATERS (10)	

* SECTION LOCATION
DENOTED ON SHEET 25

**WETLANDS IMPACT
TANK FARM (S)
& PIPE RACK
ROUTE #1
CROSS SECTIONS**



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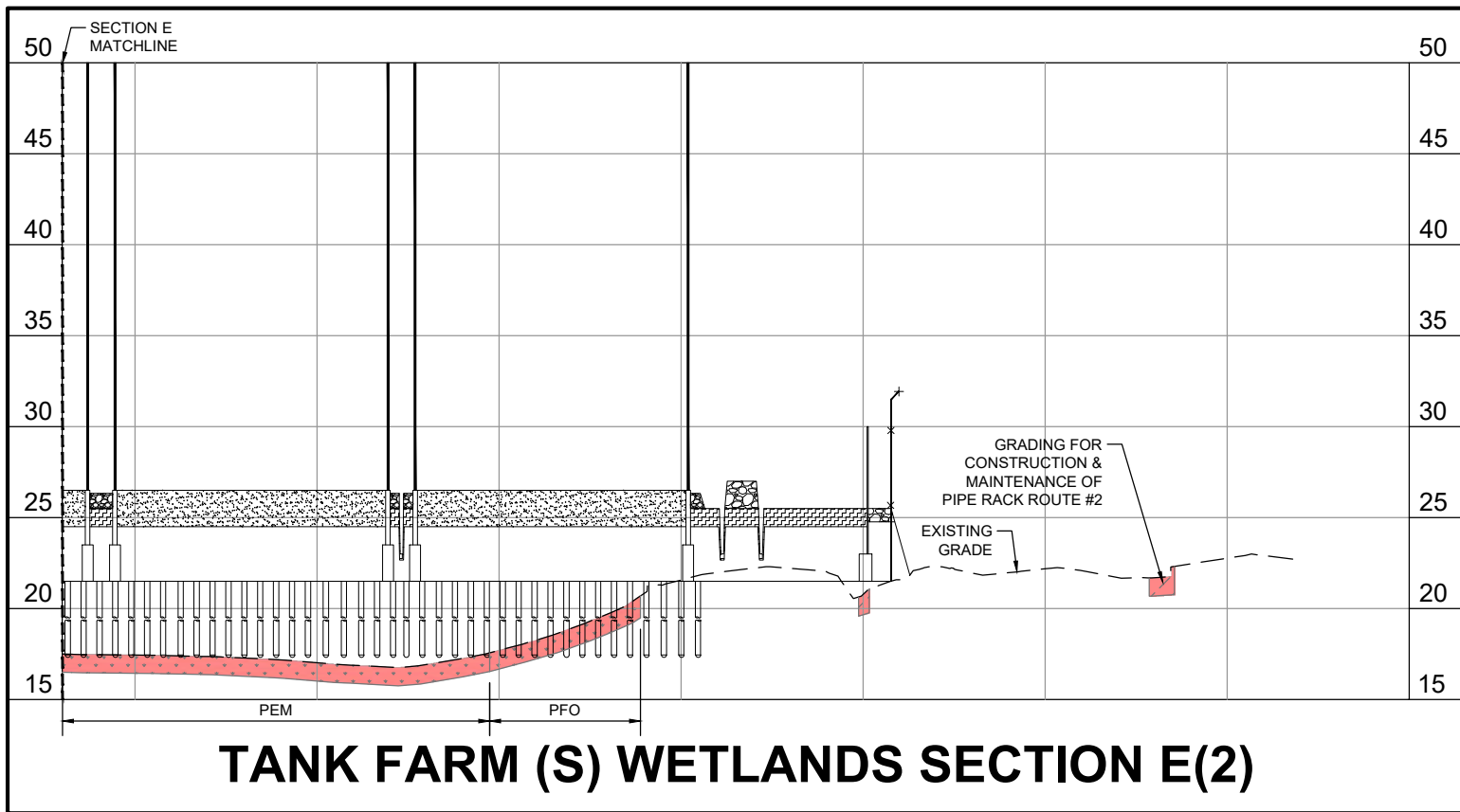
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LEGEND

OPEN WATERS (404) (NOT IMPACTED)	
OPEN WATERS (404) (IMPACTED)	
WETLANDS (NOT IMPACTED)	
WETLANDS (IMPACTED)	
OPEN WATERS (10)	

* SECTION LOCATION
DENOTED ON SHEET 25

WETLANDS IMPACT TANK FARM (S) & PIPE RACK ROUTE #1 CROSS SECTIONS

VERTICAL
SCALE IN FEET



HORIZONTAL
SCALE IN FEET



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GEISMAR, LOUISIANA

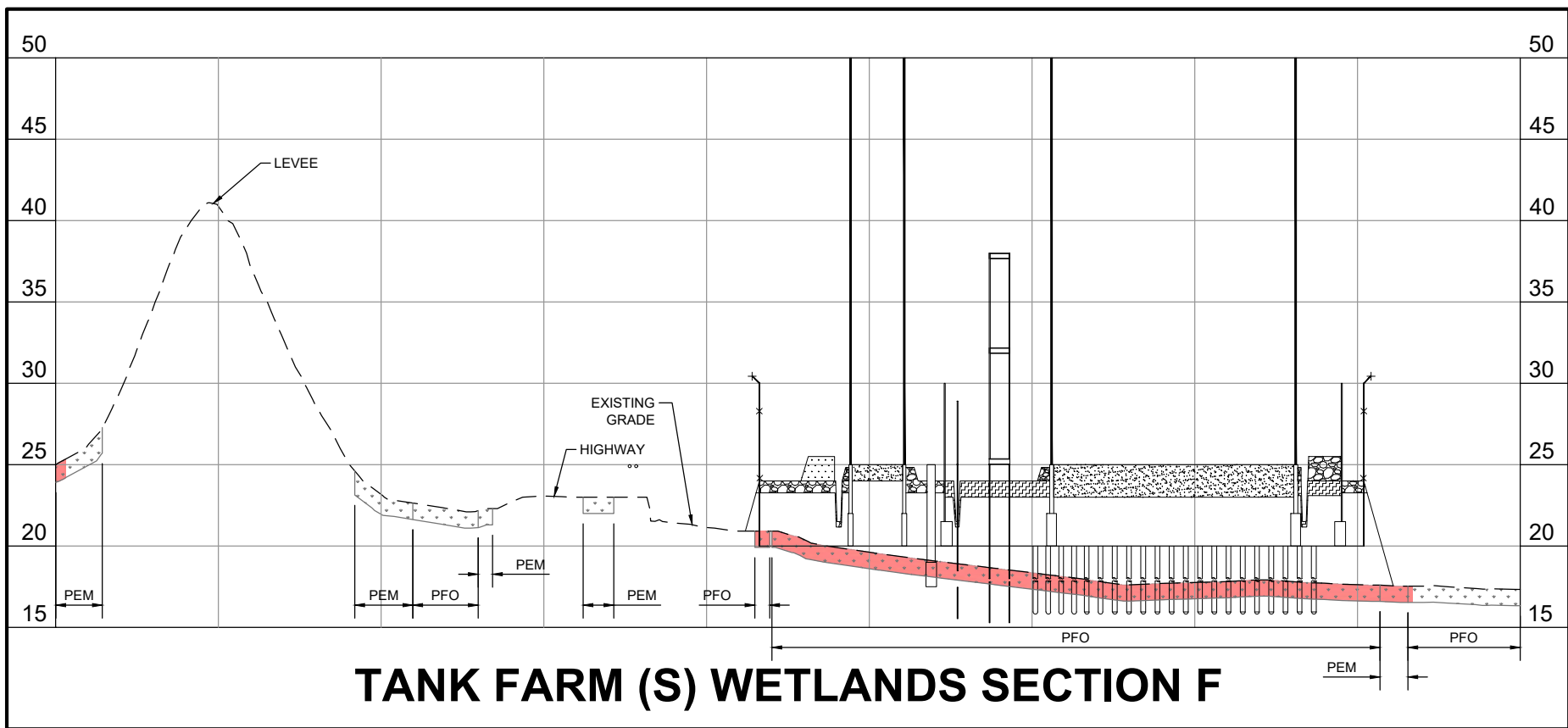
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LEGEND

OPEN WATERS (404) (NOT IMPACTED)	
OPEN WATERS (404) (IMPACTED)	
WETLANDS (NOT IMPACTED)	
WETLANDS (IMPACTED)	
OPEN WATERS (10)	

* SECTION LOCATION
DENOTED ON SHEET 25

WETLANDS IMPACT TANK FARM (S) & PIPE RACK ROUTE #1 CROSS SECTIONS

VERTICAL
SCALE IN FEET



HORIZONTAL
SCALE IN FEET



DRAWN
GJP

CHECKED
EMG

ISSUE DATE
11-10-2020

PROJECT NO.
18-678

**REG GEISMAR
TRAIN B**
GEISMAR, LOUISIANA
ASCENSION PARISH

FOR REG GEISMAR, LLC
GEISMAR, LOUISIANA

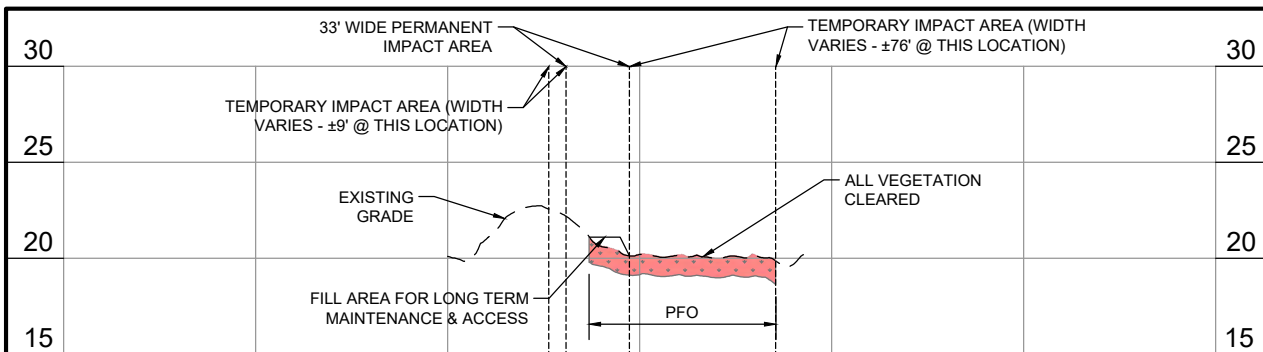
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REVISION #4 12-15-21	GJP

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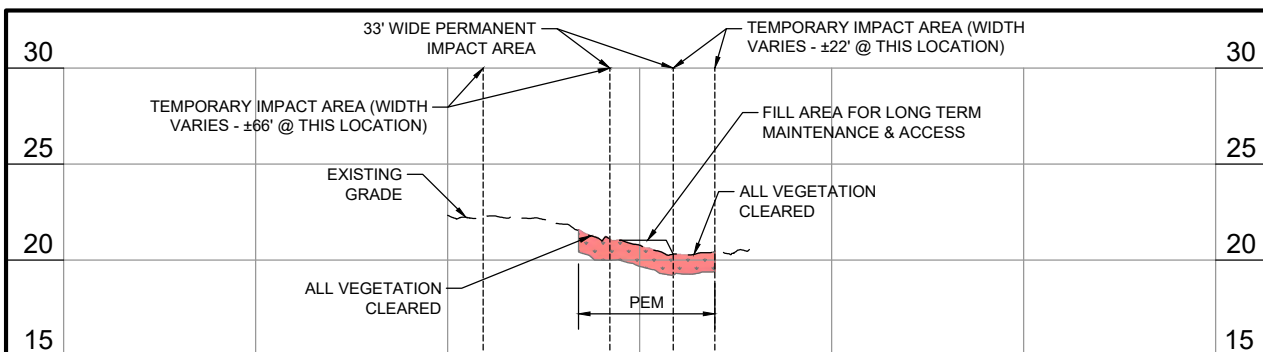
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TANK FARM (S) WETLANDS SECTION G



TANK FARM (S) WETLANDS SECTION H

LEGEND

OPEN WATERS (404) (NOT IMPACTED)	
OPEN WATERS (404) (IMPACTED)	
WETLANDS (NOT IMPACTED)	
WETLANDS (IMPACTED)	
OPEN WATERS (10)	

* SECTION LOCATION
DENOTED ON SHEET 26

WETLANDS IMPACT TANK FARM (S) & PIPE RACK ROUTE #1 CROSS SECTIONS

VERTICAL
SCALE IN FEET



HORIZONTAL
SCALE IN FEET



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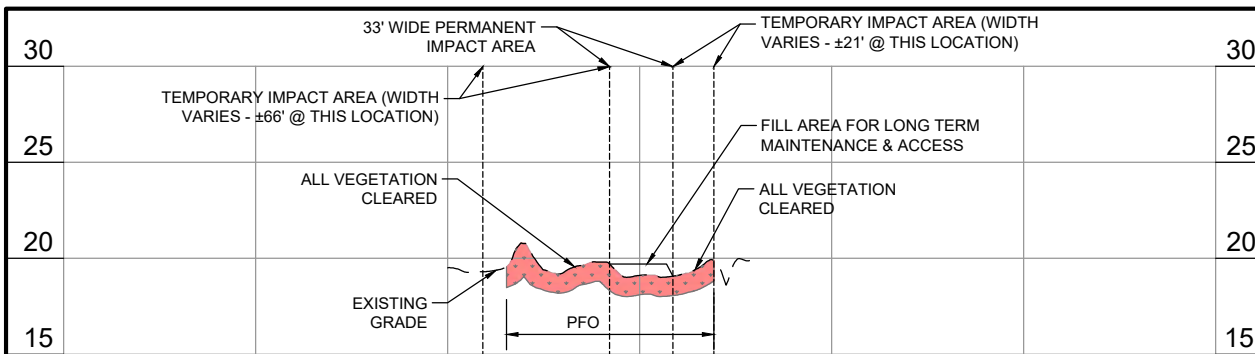
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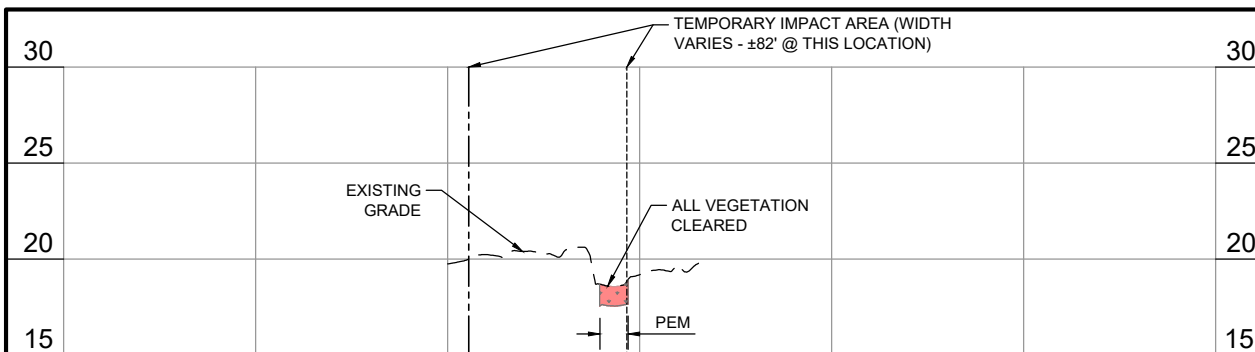
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TANK FARM (S) WETLANDS SECTION I



TANK FARM (S) WETLANDS SECTION J

LEGEND

OPEN WATERS (404) (NOT IMPACTED)	
OPEN WATERS (404) (IMPACTED)	
WETLANDS (NOT IMPACTED)	
WETLANDS (IMPACTED)	
OPEN WATERS (10)	

* SECTION LOCATION
DENOTED ON SHEET 26

WETLANDS IMPACT TANK FARM (S) & PIPE RACK ROUTE #1 CROSS SECTIONS

VERTICAL
SCALE IN FEET



HORIZONTAL
SCALE IN FEET



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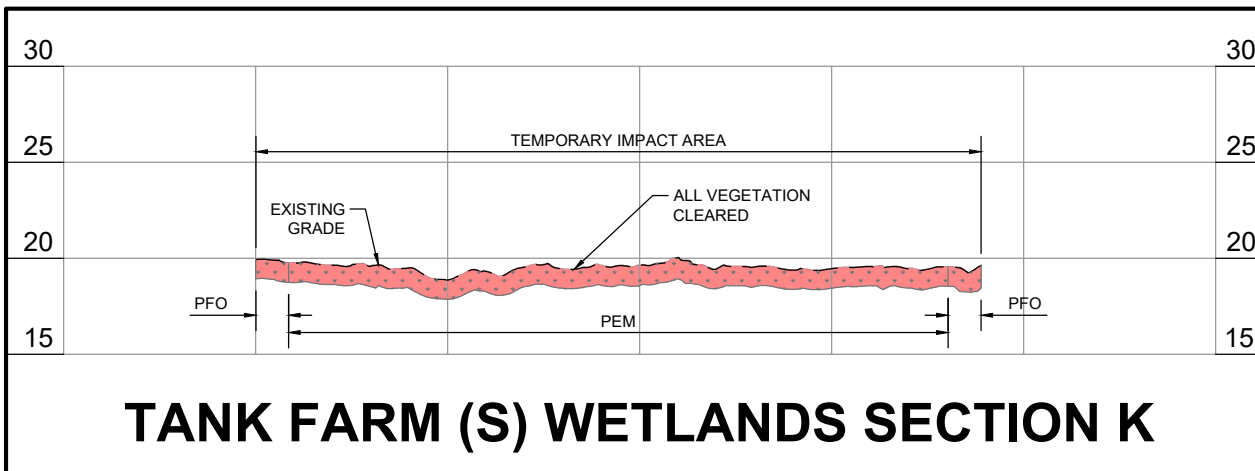
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OPEN WATERS (404) (IMPACTED)	
WETLANDS (NOT IMPACTED)	
WETLANDS (IMPACTED)	
OPEN WATERS (10)	

* SECTION LOCATION
DENOTED ON SHEET 26

WETLANDS IMPACT TANK FARM (S) & PIPE RACK ROUTE #1 CROSS SECTIONS

VERTICAL
SCALE IN FEET



HORIZONTAL
SCALE IN FEET



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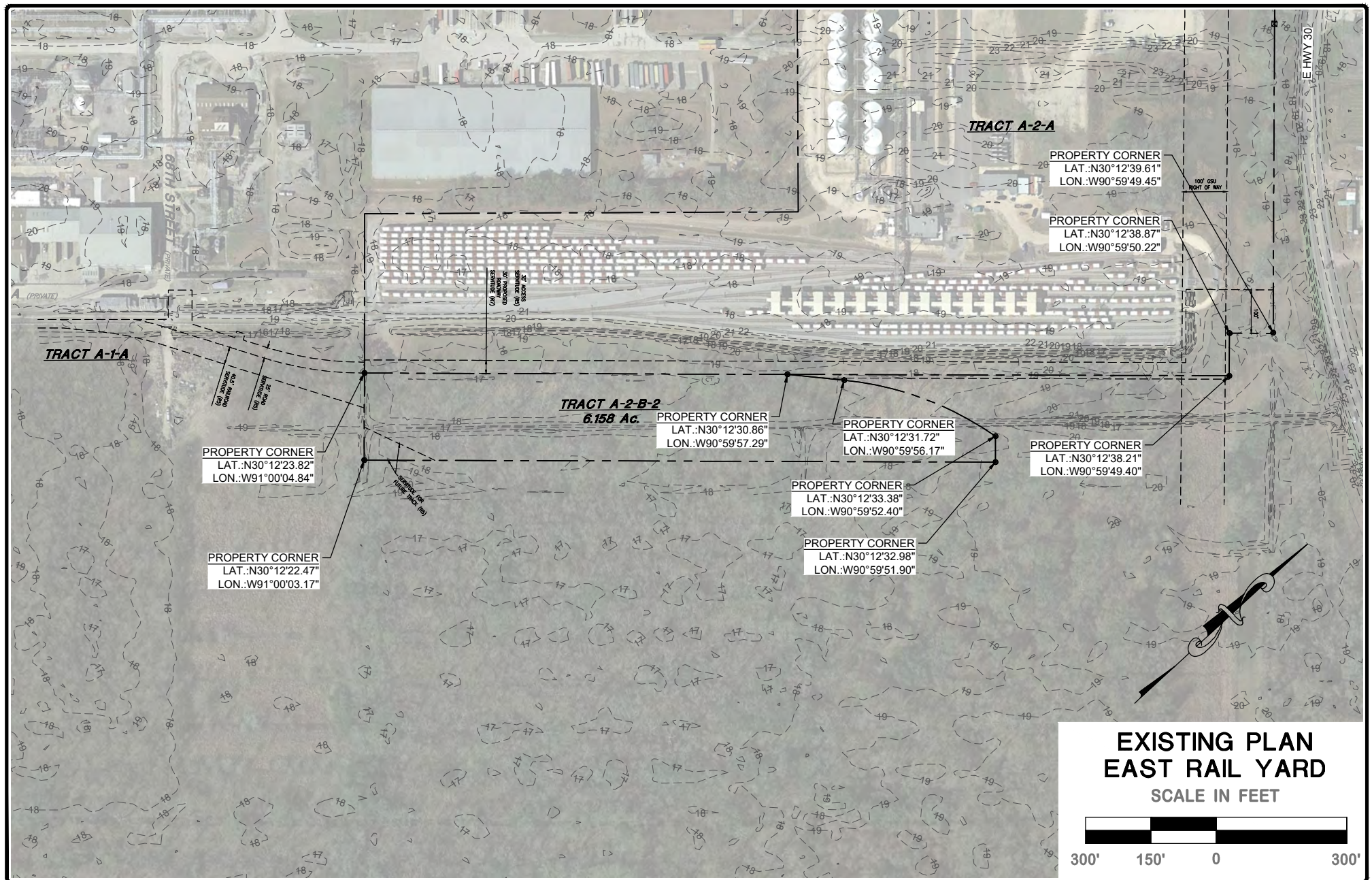
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FOR REG GEISMAR, LLC GEISMAR, LOUISIANA

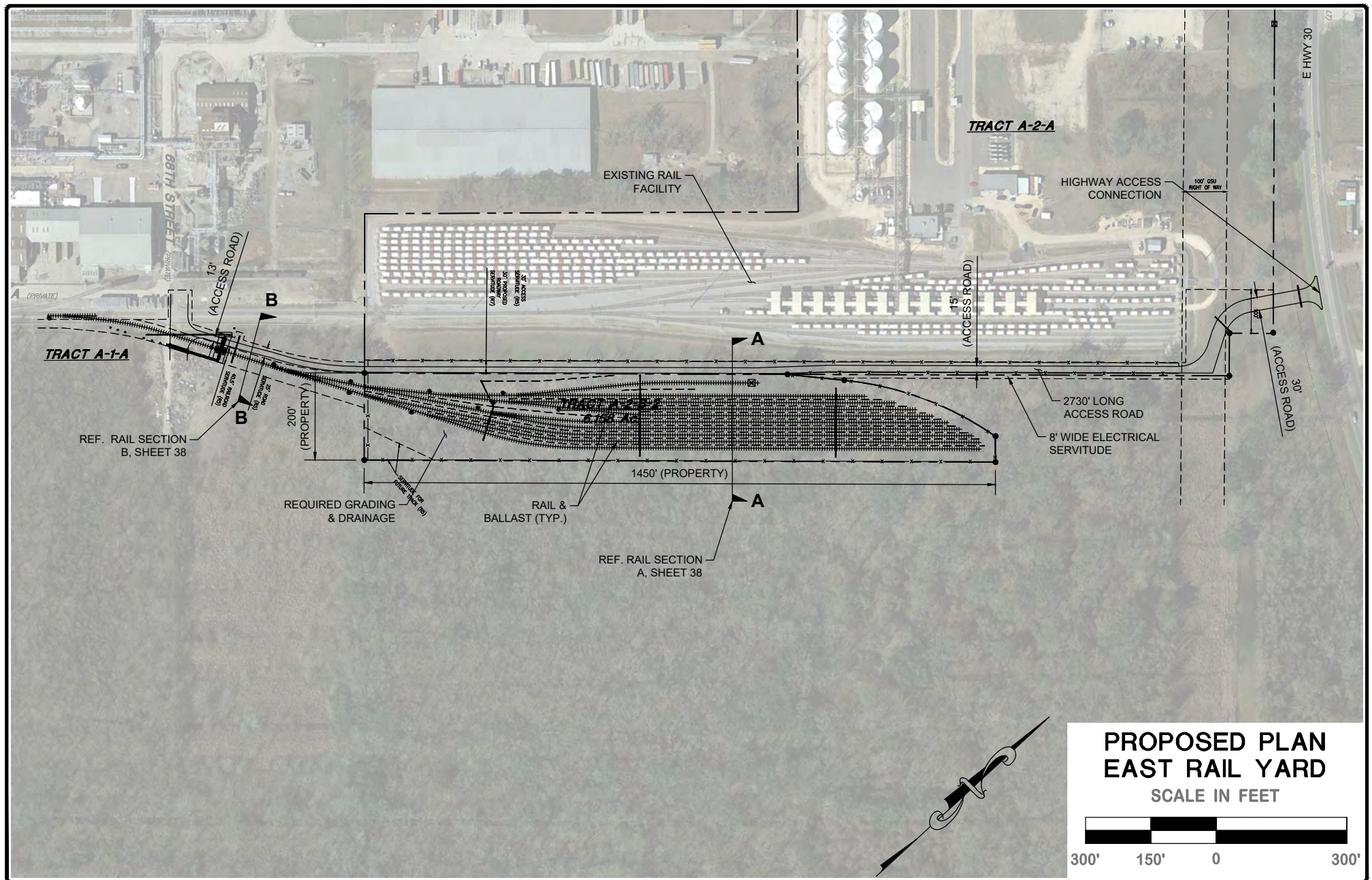
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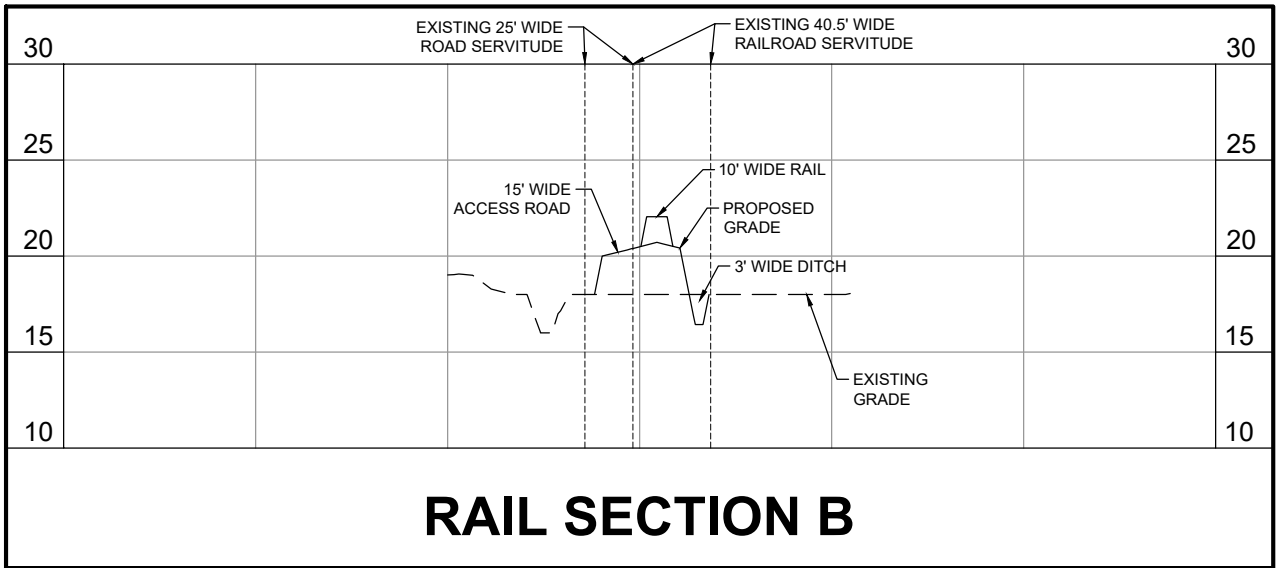
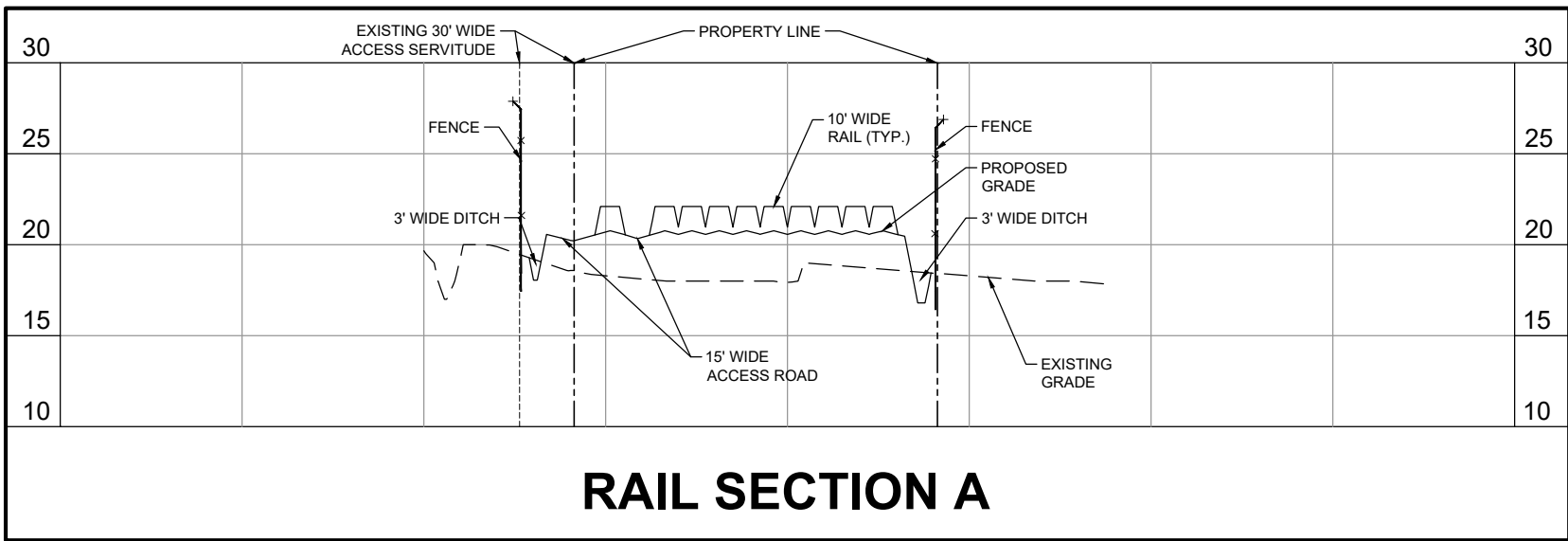
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* SECTION LOCATIONS
DENOTED ON SHEET 37

EAST RAIL YARD CROSS SECTIONS

VERTICAL
SCALE IN FEET



HORIZONTAL
SCALE IN FEET



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CHECKED EMG
ISSUE DATE 11-10-2020
PROJECT NO. 18-678

REG GEISMAR TRAIN B GEISMAR, LOUISIANA ASCENSION PARISH FOR REG GEISMAR, LLC GEISMAR, LOUISIANA
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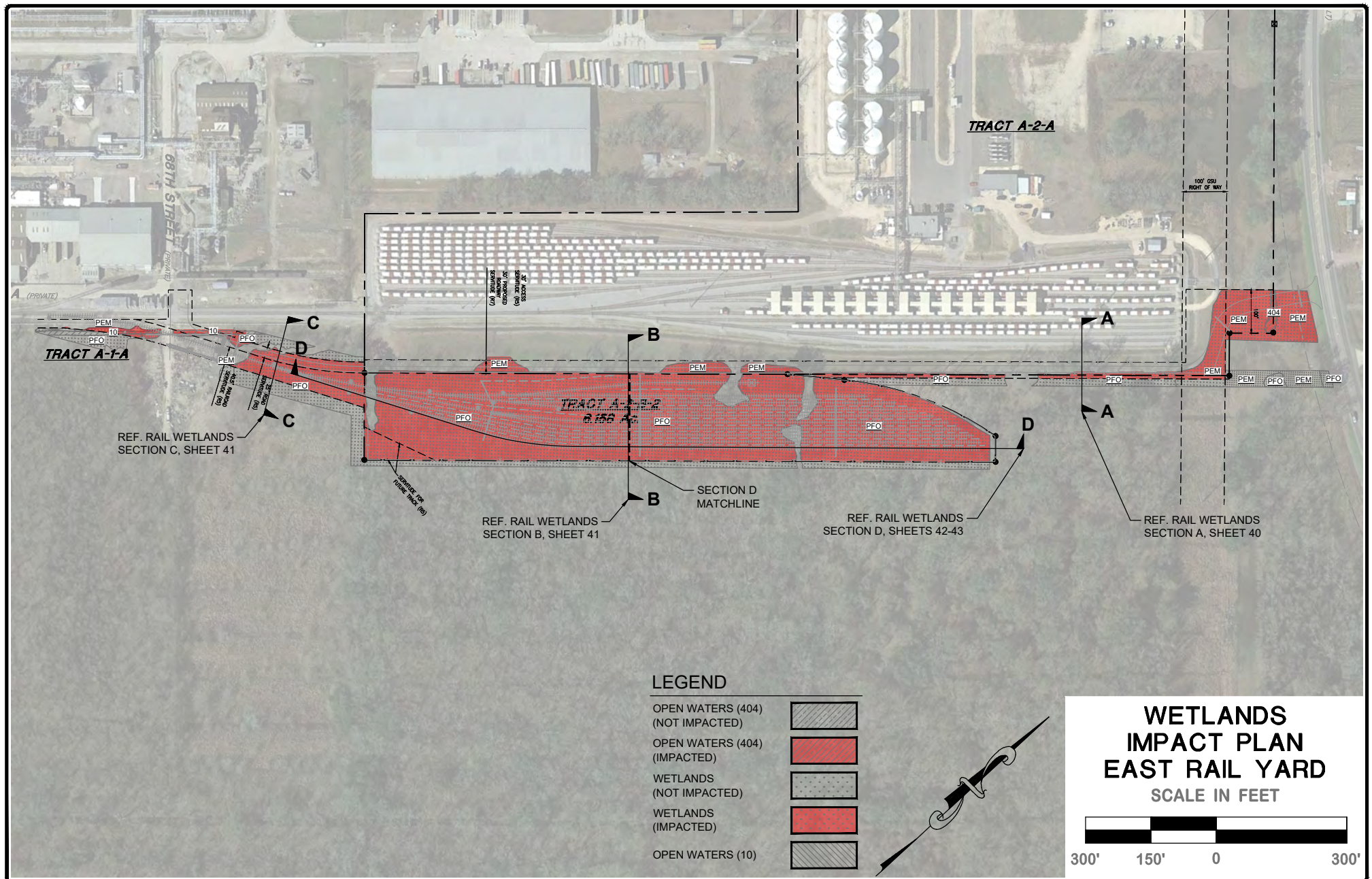
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FOR REG GEISMAR, LLC GEISMAR, LOUISIANA

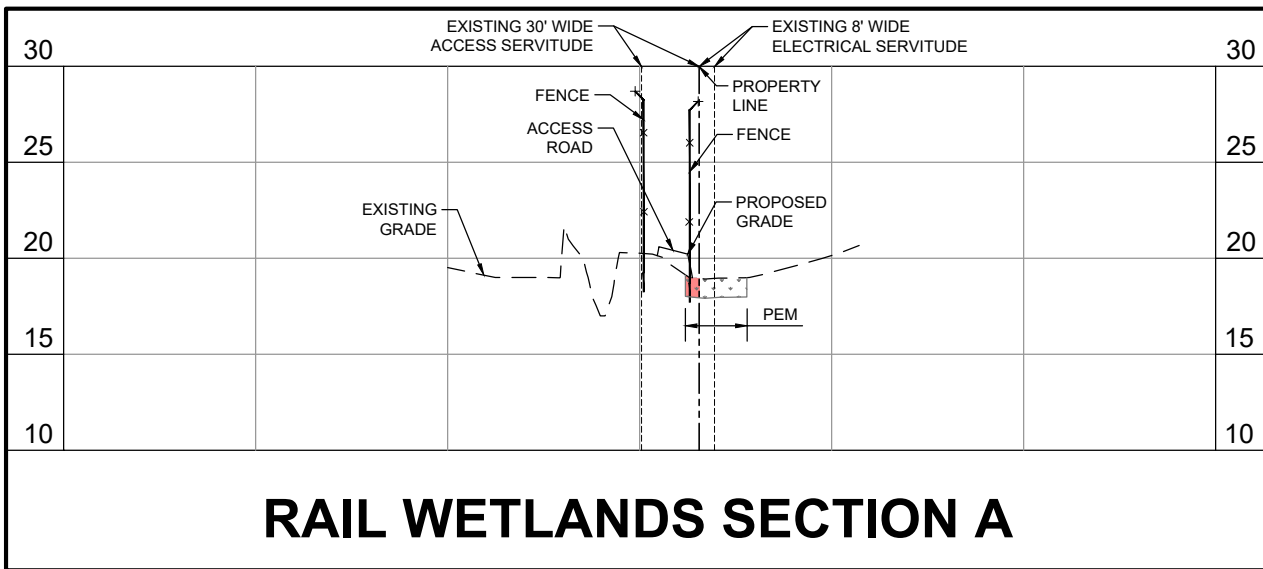
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* SECTION LOCATION
DENOTED ON SHEET 39

WETLANDS IMPACT EAST RAIL YARD CROSS SECTIONS

LEGEND

OPEN WATERS (404) (NOT IMPACTED)	
OPEN WATERS (404) (IMPACTED)	
WETLANDS (NOT IMPACTED)	
WETLANDS (IMPACTED)	
OPEN WATERS (10)	

VERTICAL
SCALE IN FEET



HORIZONTAL
SCALE IN FEET



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EMG

ISSUE DATE
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18-678

**REG GEISMAR
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GEISMAR, LOUISIANA
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GEISMAR, LOUISIANA

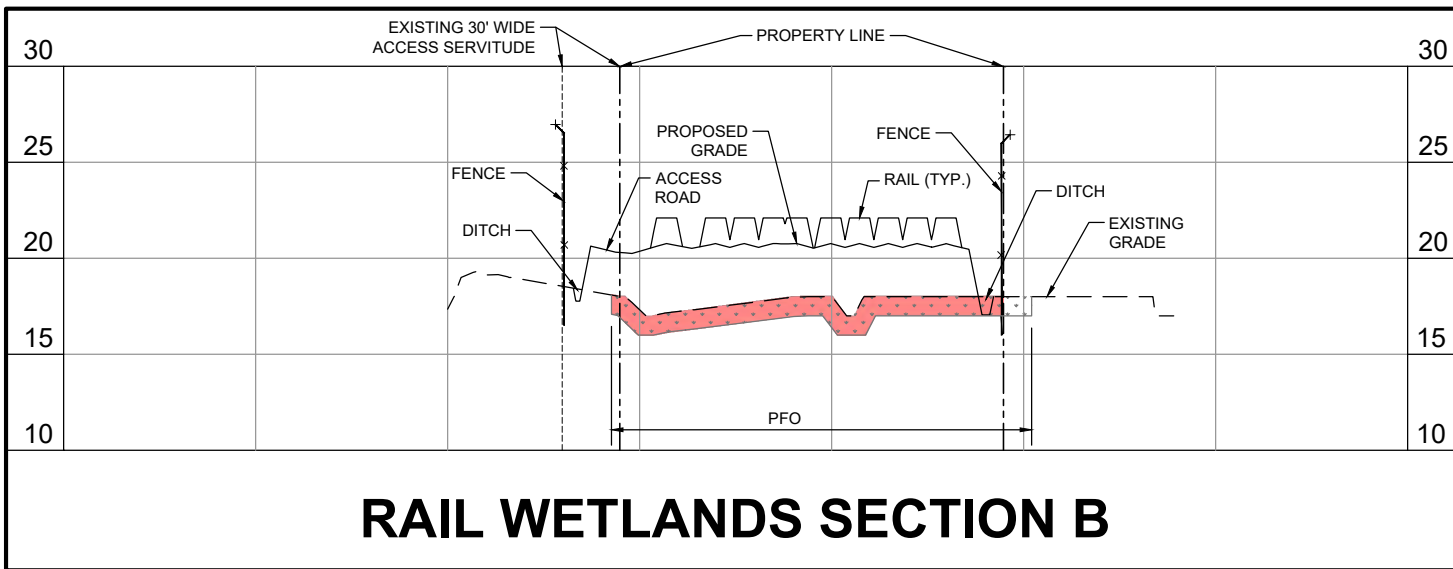
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LEGEND

OPEN WATERS (404) (NOT IMPACTED)	
OPEN WATERS (404) (IMPACTED)	
WETLANDS (NOT IMPACTED)	
WETLANDS (IMPACTED)	
OPEN WATERS (10)	

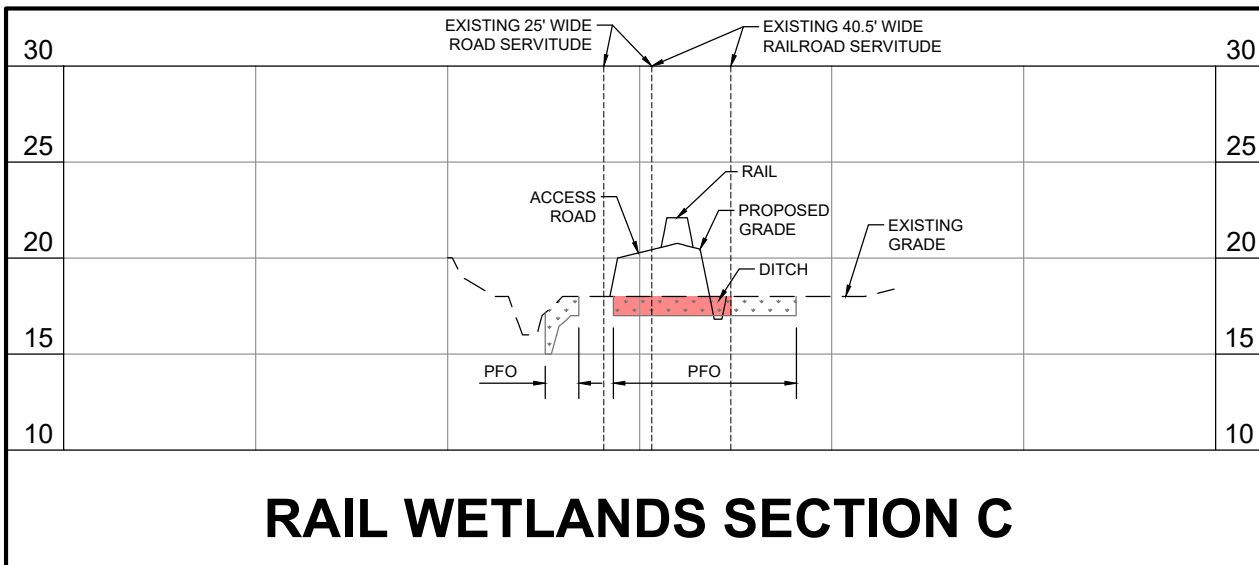
* SECTION LOCATIONS
DENOTED ON SHEET 39

WETLANDS IMPACT EAST RAIL YARD CROSS SECTIONS

VERTICAL
SCALE IN FEET



HORIZONTAL
SCALE IN FEET



DRAWN
GJP

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EMG

ISSUE DATE
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**REG GEISMAR
TRAIN B**

**GEISMAR, LOUISIANA
ASCENSION PARISH**

**FOR REG GEISMAR, LLC
GEISMAR, LOUISIANA**

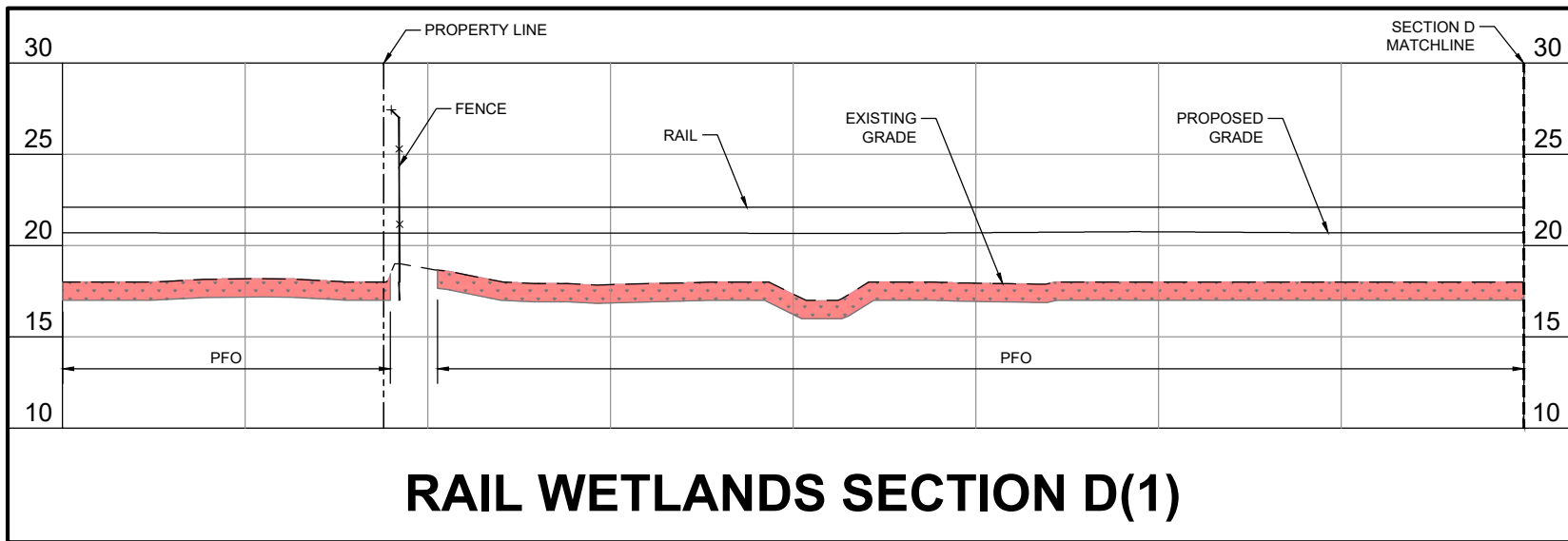
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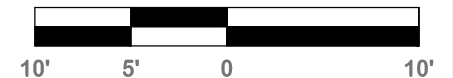
* SECTION LOCATION
DENOTED ON SHEET 39

WETLANDS IMPACT EAST RAIL YARD CROSS SECTIONS

LEGEND

OPEN WATERS (404) (NOT IMPACTED)	
OPEN WATERS (404) (IMPACTED)	
WETLANDS (NOT IMPACTED)	
WETLANDS (IMPACTED)	
OPEN WATERS (10)	

VERTICAL
SCALE IN FEET



HORIZONTAL
SCALE IN FEET



DRAWN
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ISSUE DATE
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PROJECT NO.
18-678

**REG GEISMAR
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GEISMAR, LOUISIANA
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FOR REG GEISMAR, LLC
GEISMAR, LOUISIANA

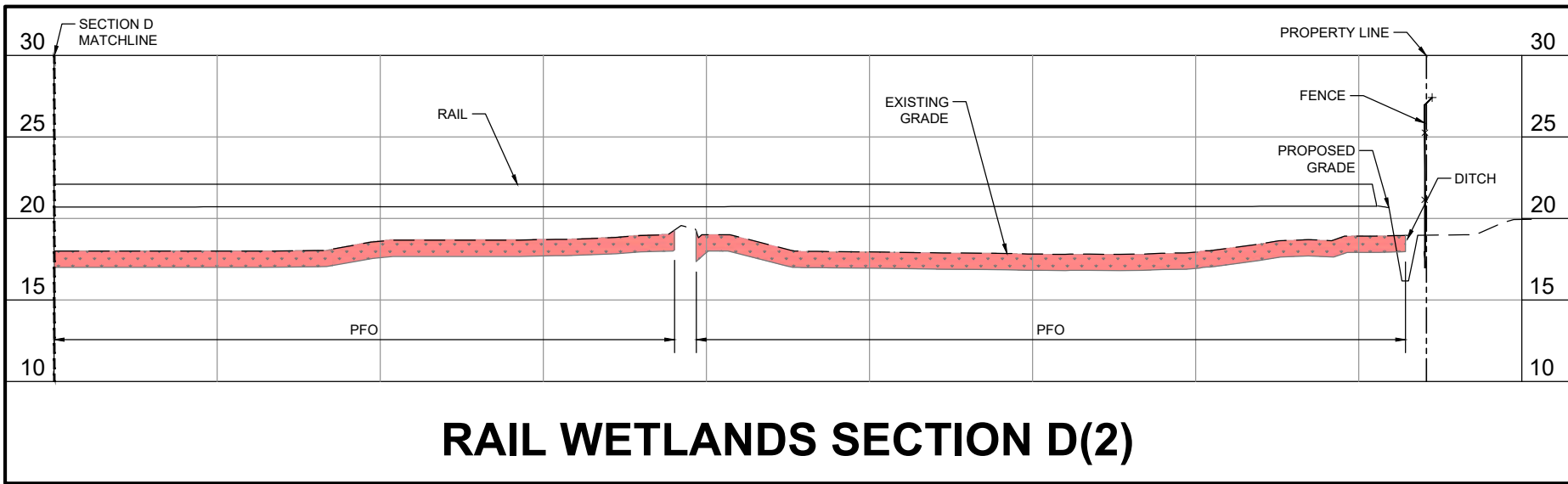
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* SECTION LOCATION
DENOTED ON SHEET 39

WETLANDS IMPACT EAST RAIL YARD CROSS SECTIONS

LEGEND

OPEN WATERS (404) (NOT IMPACTED)	
OPEN WATERS (404) (IMPACTED)	
WETLANDS (NOT IMPACTED)	
WETLANDS (IMPACTED)	
OPEN WATERS (10)	

VERTICAL
SCALE IN FEET



HORIZONTAL
SCALE IN FEET



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GJP

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**REG GEISMAR
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GEISMAR, LOUISIANA
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GEISMAR, LOUISIANA

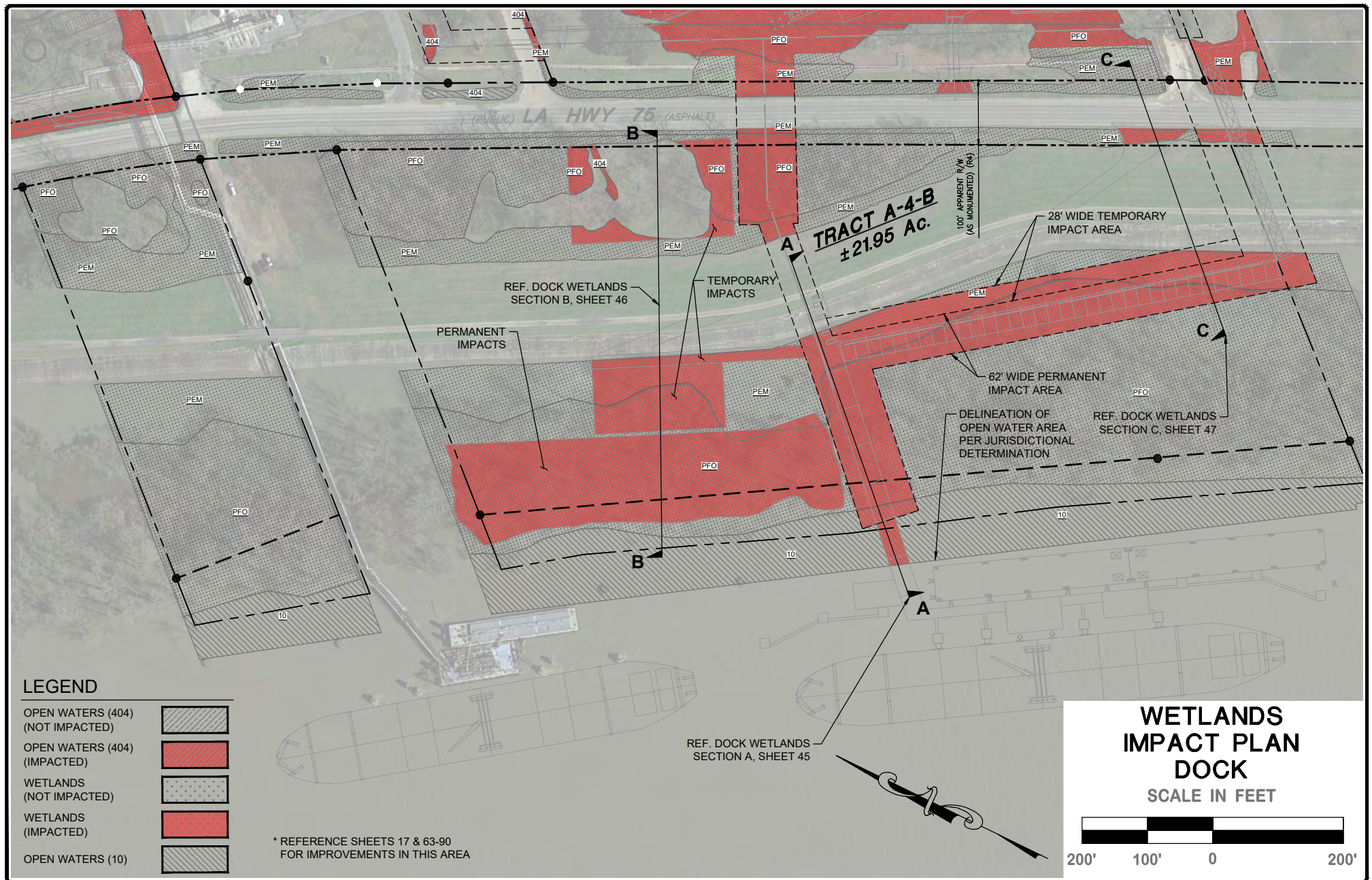
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GEISMAR, LOUISIANA

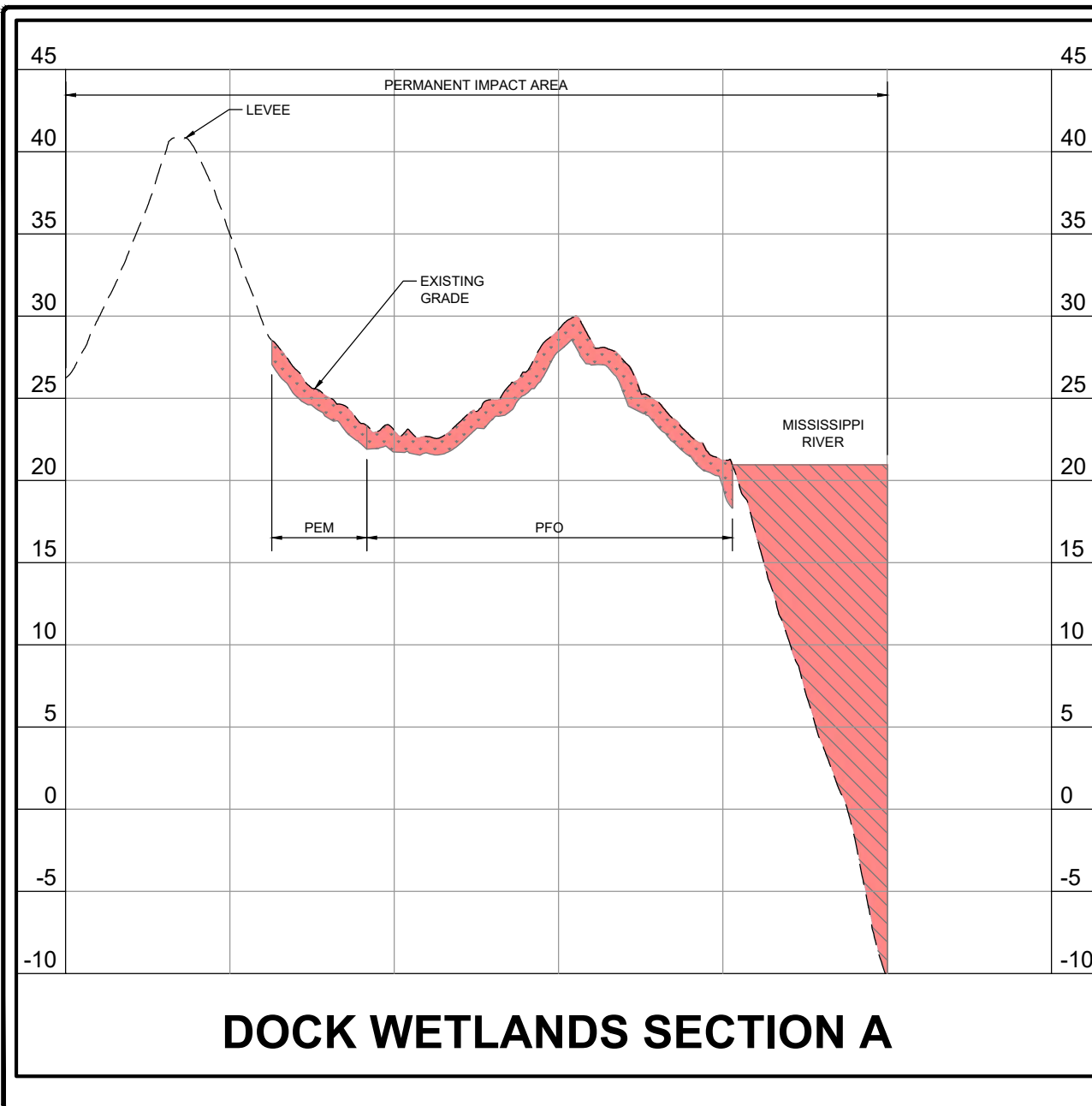
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LEGEND

OPEN WATERS (404) (NOT IMPACTED)	
OPEN WATERS (404) (IMPACTED)	
WETLANDS (NOT IMPACTED)	
WETLANDS (IMPACTED)	
OPEN WATERS (10)	

* SECTION LOCATION
DENOTED ON SHEET 44

WETLANDS IMPACT DOCK CROSS SECTIONS

VERTICAL
SCALE IN FEET



HORIZONTAL
SCALE IN FEET



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GJP

CHECKED
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ISSUE DATE
11-10-2020

PROJECT NO.
18-678

**REG GEISMAR
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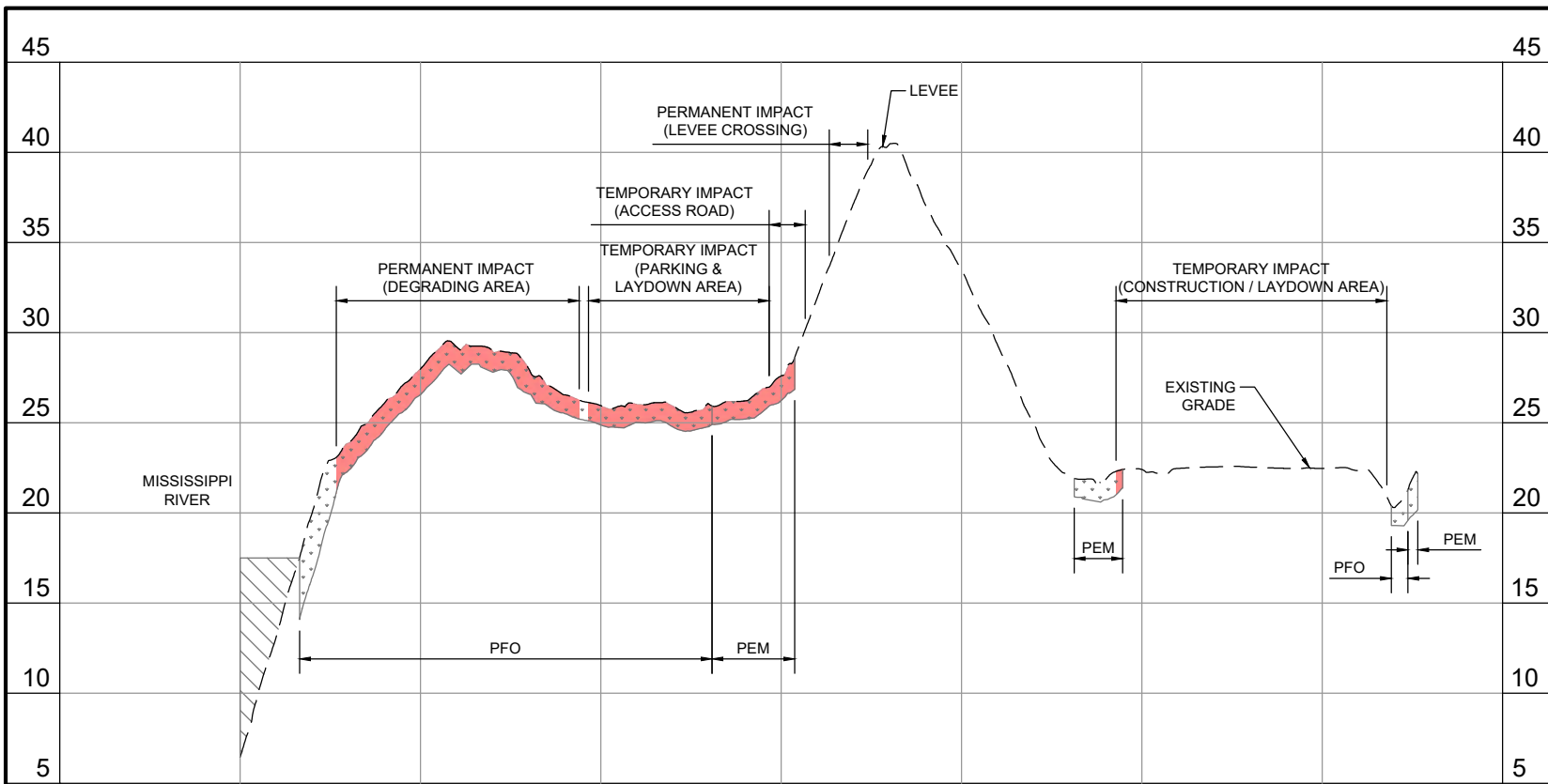
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LEGEND	
OPEN WATERS (404) (NOT IMPACTED)	
OPEN WATERS (404) (IMPACTED)	
WETLANDS (NOT IMPACTED)	
WETLANDS (IMPACTED)	
OPEN WATERS (10)	

DOCK WETLANDS SECTION B

VERTICAL
SCALE IN FEET



HORIZONTAL
SCALE IN FEET



* SECTION LOCATION
DENOTED ON SHEET 44

WETLANDS IMPACT DOCK CROSS SECTIONS

DRAWN
GJP

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EMG

ISSUE DATE
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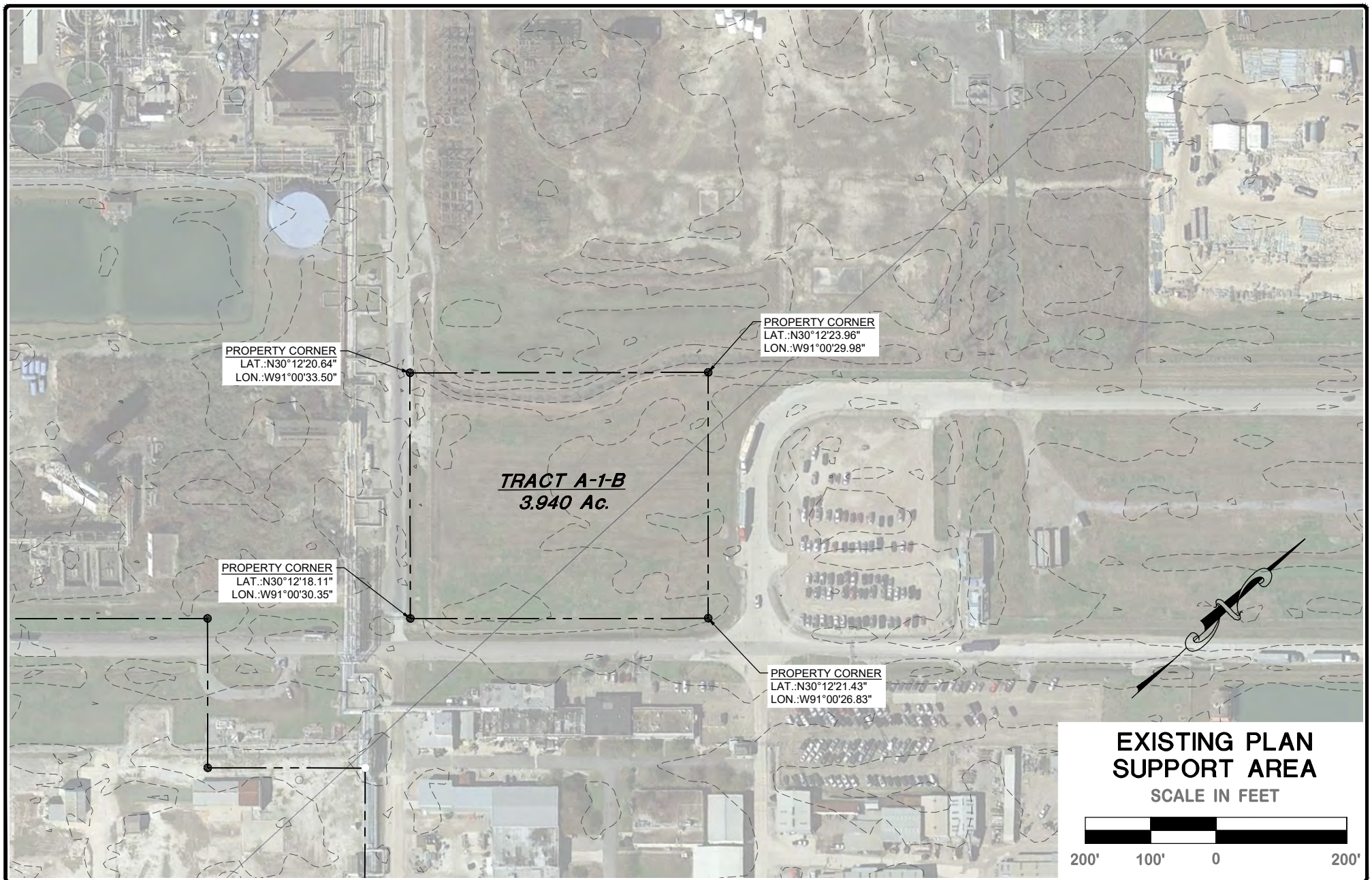
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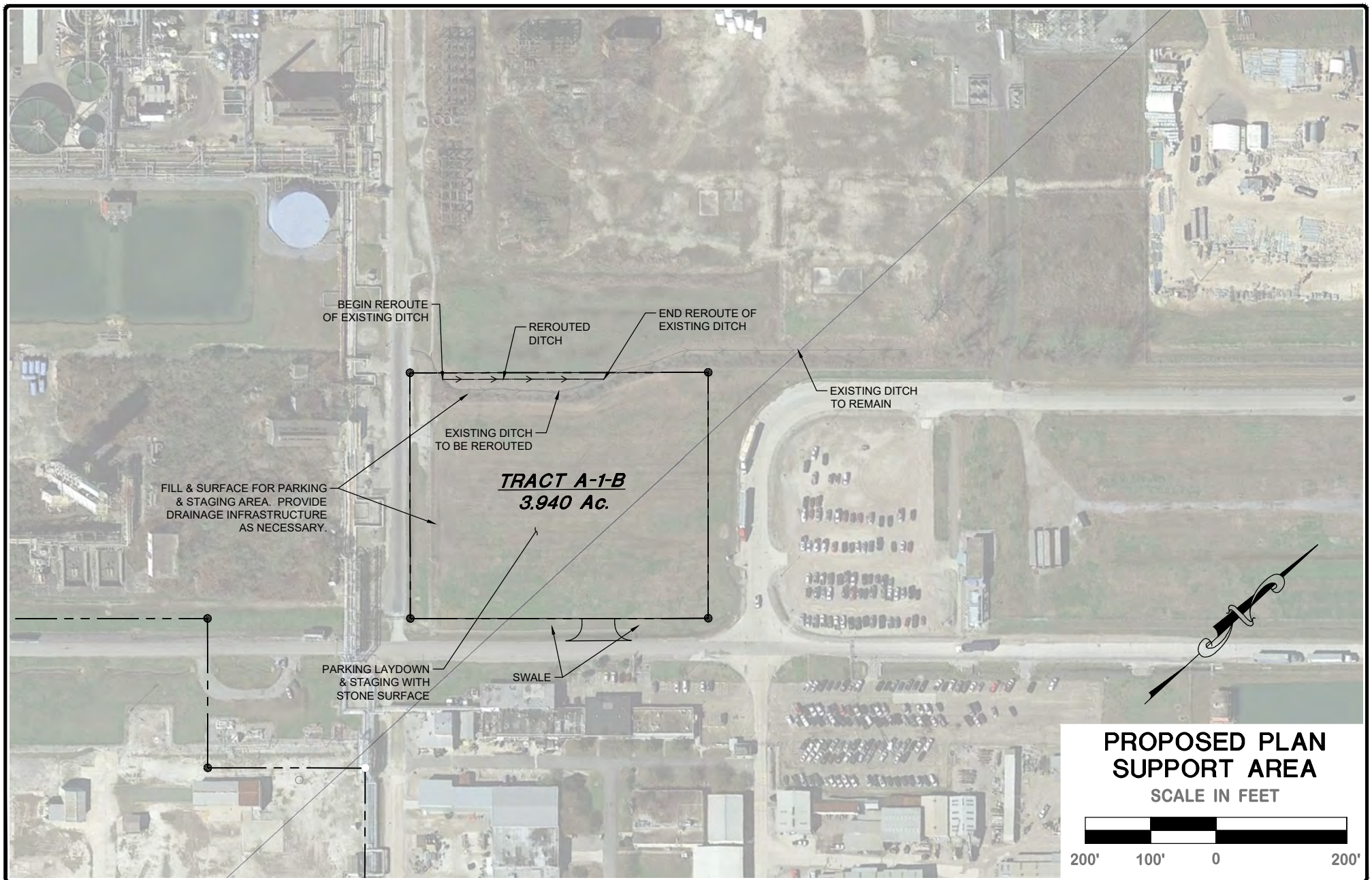
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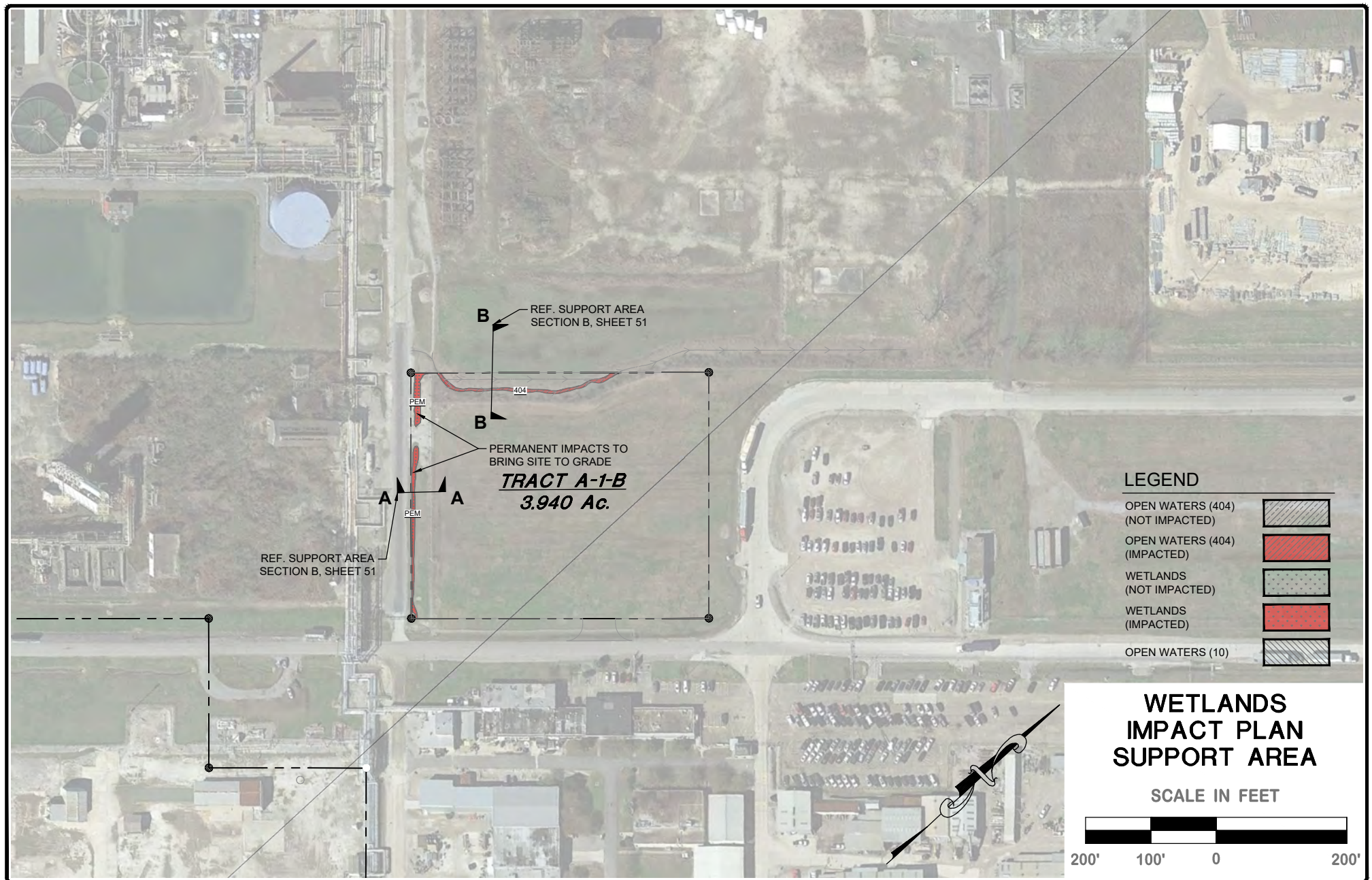
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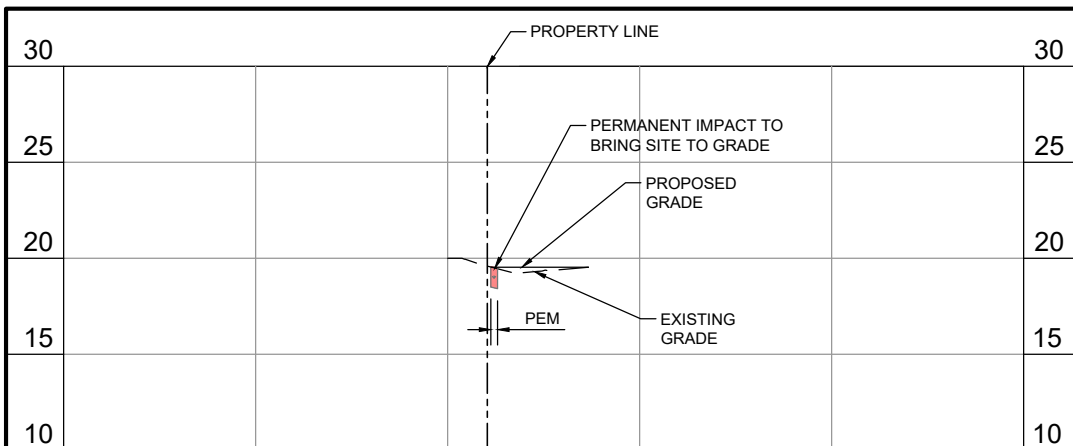
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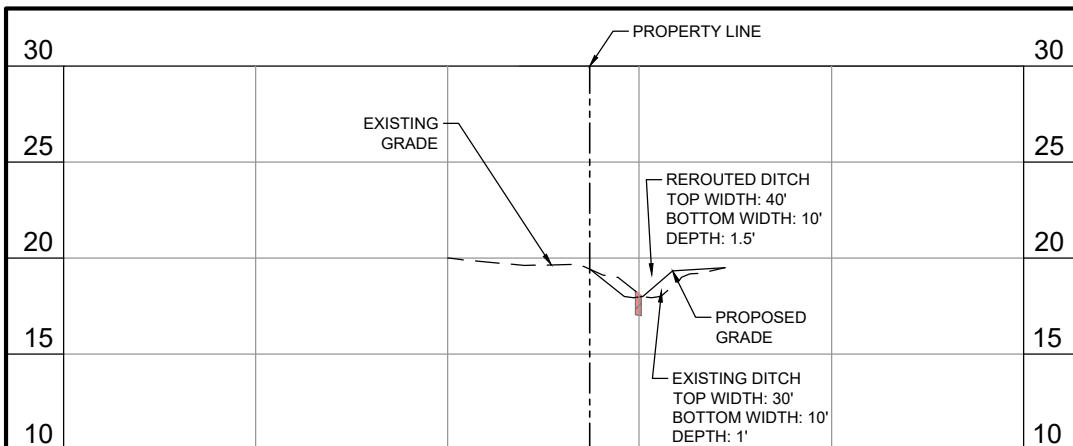
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SUPPORT AREA WETLANDS SECTION A



SUPPORT AREA WETLANDS SECTION B

* SECTION LOCATIONS
DENOTED ON SHEET 50

WETLANDS IMPACT SUPPORT AREA CROSS SECTIONS

LEGEND

OPEN WATERS (404) (NOT IMPACTED)	
OPEN WATERS (404) (IMPACTED)	
WETLANDS (NOT IMPACTED)	
WETLANDS (IMPACTED)	
OPEN WATERS (10)	

VERTICAL
SCALE IN FEET



HORIZONTAL
SCALE IN FEET



DRAWN
GJP

CHECKED
EMG

ISSUE DATE
11-10-2020

PROJECT NO.
18-678

**REG GEISMAR
TRAIN B**

GEISMAR, LOUISIANA
ASCENSION PARISH

FOR REG GEISMAR, LLC
GEISMAR, LOUISIANA

REVISION	BY
REVISION #1 02-24-21	GJP
REVISION #2 03-17-21	GJP
REVISION #3 06-11-21	GJP
REVISION #4 12-15-21	GJP

PRELIMINARY
FOR PERMIT PURPOSES ONLY

Kainen T. LeBlanc
LA PE #34314
Duplant Design Group, P.C.

DDG
DUPLANTIS DESIGN GROUP

314 E. Bayou Road
Thibodaux, LA 70301
Office: 985.447.0090
Fax: 985.447.7009
www.ddgpc.com

LEGEND

1. 24" HEAVY DUTY PAVING
2. 6" LIGHT DUTY PAVING
3. GRAVEL AREA
4. ASPHALT ROAD
5. CLAY LINER
6. ROUGH GRADE
7. SAND FILL

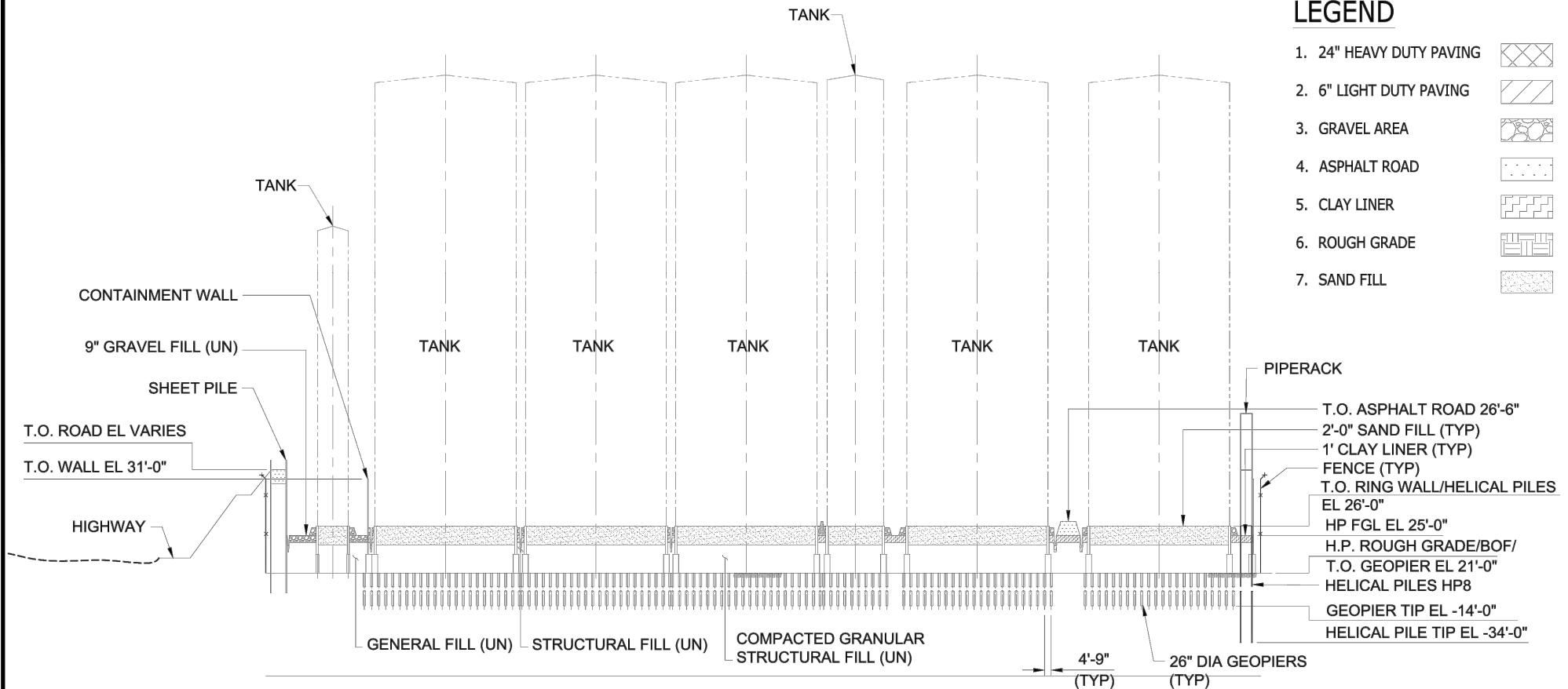


TABLE FOR HELICAL PILE

HELICAL PILE NO	UPPER		LOWER		TOTAL LENGTH	T.O. PILE EL	PILE TIP EL
	PILE DIA	PILE LENGTH	PILE DIA	PILE LENGTH			
HP-3	14"	15'-0"	5.5"	35'-0"	50'-0"	23'-0"	-27'-0"
HP-6	14"	15'-0"	7"	40'-0"	55'-0"	21'-0"	-34'-0"
HP-8	20"	20'-0"	8.63"	40'-0"	60'-0"	26'-0"	-34'-0"
HP-10	30"	40'-0"	12.75"	60'-0"	100'-0"	32'-0"	-68'-0"

SECTION A-A

NOT TO SCALE

* SECTION LOCATION
DENOTED ON SHEET 4

* ALL DESIGN INFORMATION
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WOOD GROUP USA, INC.

TANK YARD (N) SECTION DETAILS

DRAWN
GJP

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EMG

ISSUE DATE
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GEISMAR, LOUISIANA
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FOR REG GEISMAR, LLC
GEISMAR, LOUISIANA

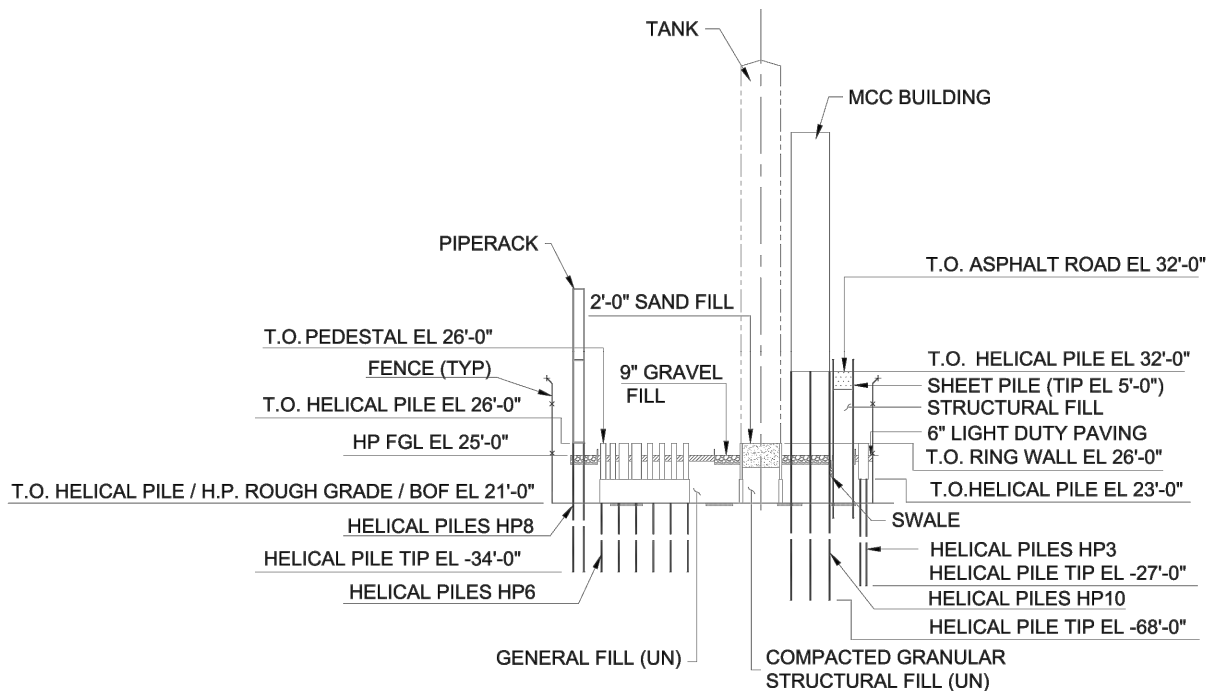
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SECTION B-B
NOT TO SCALE

TABLE FOR HELICAL PILE							
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LEGEND

- 24" HEAVY DUTY PAVING
- 6" LIGHT DUTY PAVING
- GRAVEL AREA
- ASPHALT ROAD
- CLAY LINER
- ROUGH GRADE
- SAND FILL

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FOR REG GEISMAR, LLC
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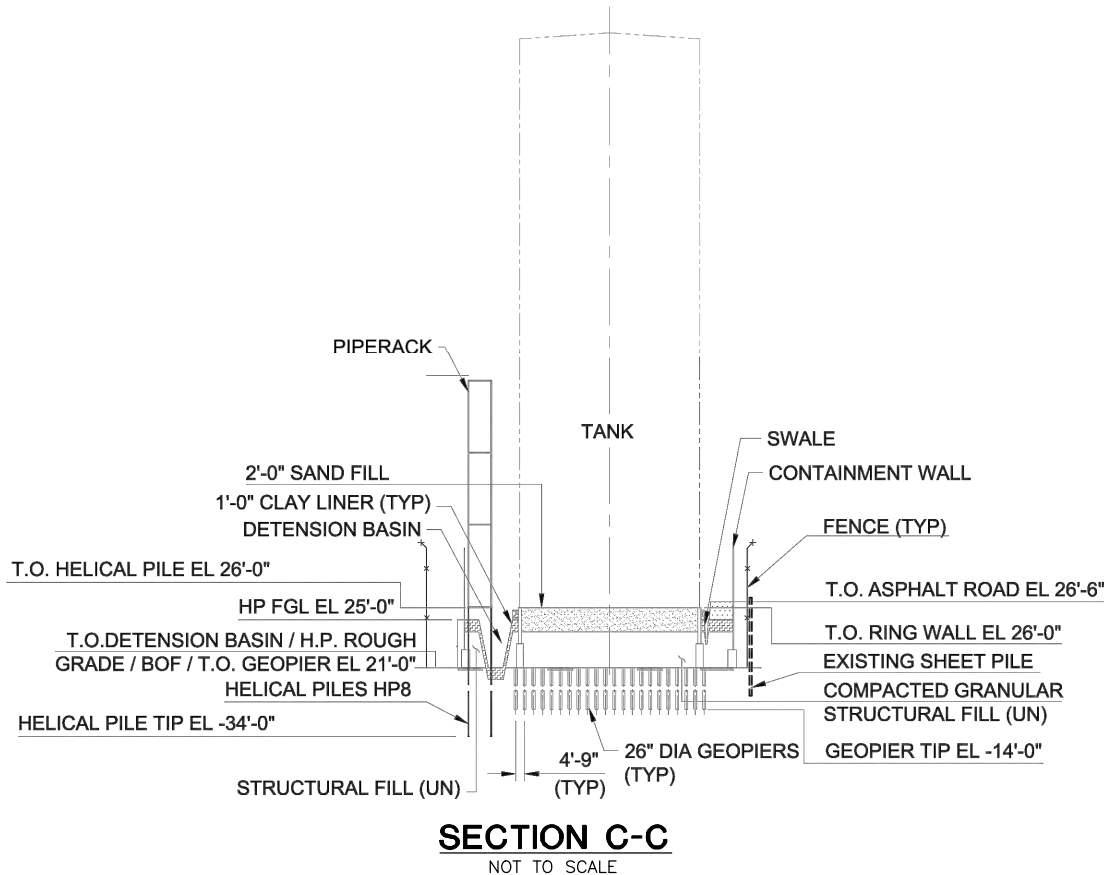


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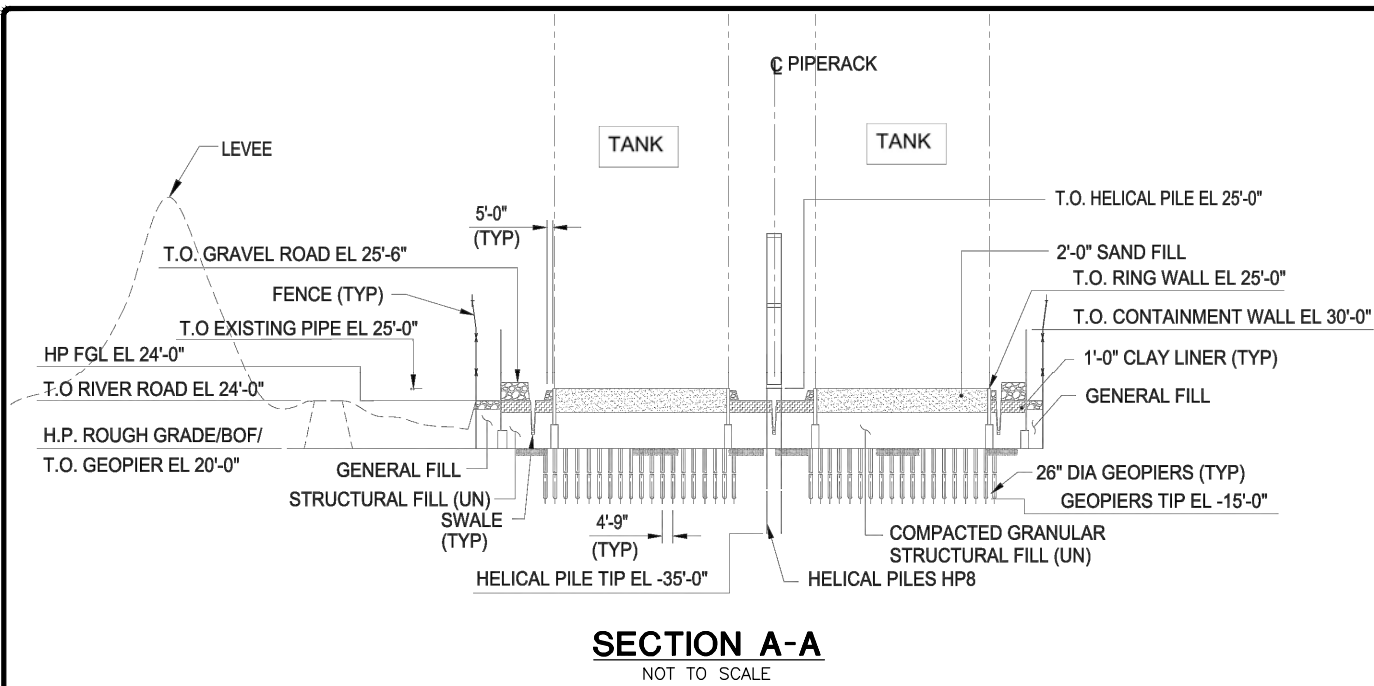


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**TANK YARD (S)
SECTION DETAILS**

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REG GEISMAR TRAIN B GEISMAR, LOUISIANA ASCENSION PARISH FOR REG GEISMAR, LLC GEISMAR, LOUISIANA
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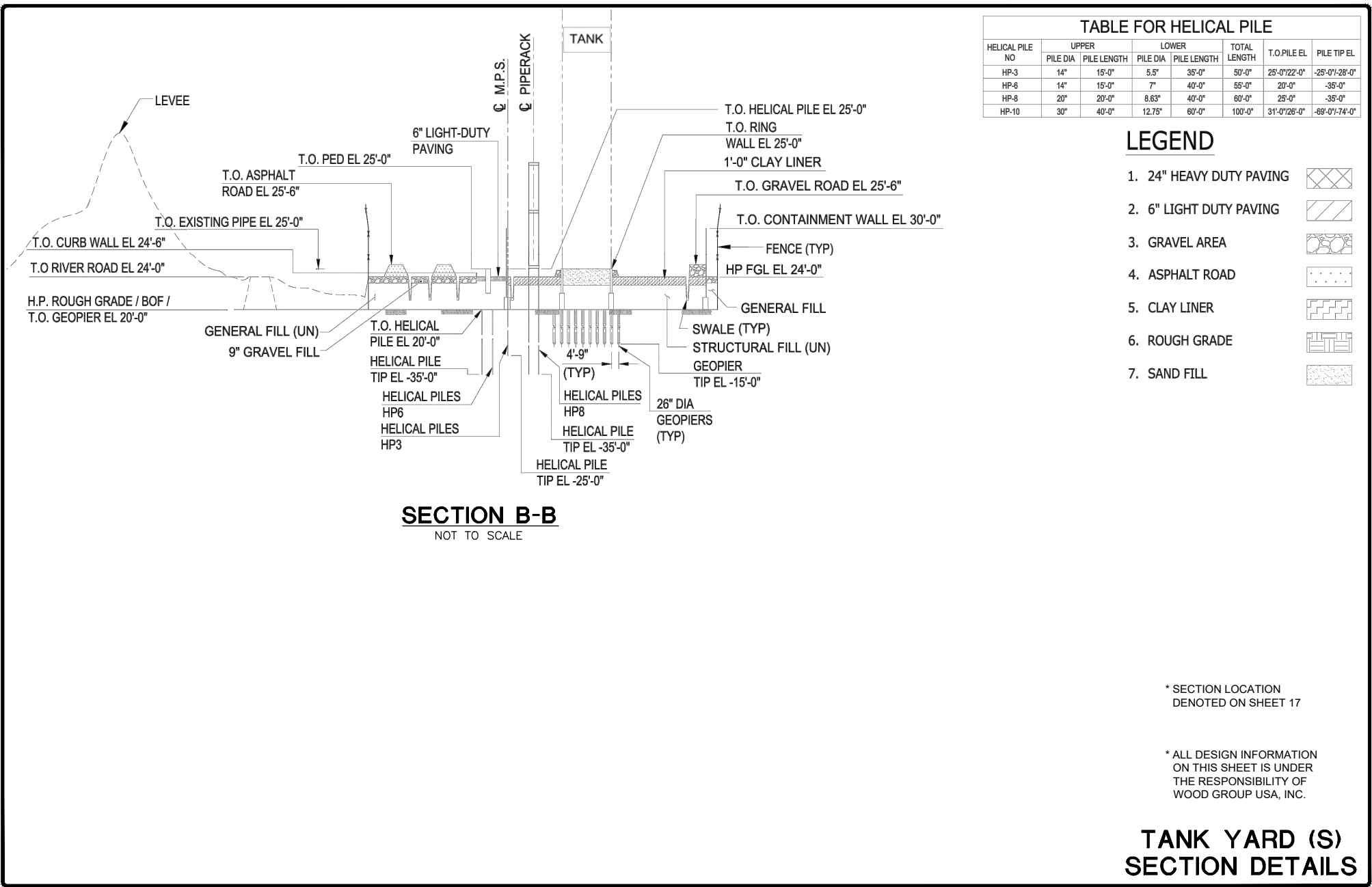


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TANK YARD (S) SECTION DETAILS

DRAWN GJP CHECKED EMG ISSUE DATE 11-10-2020 PROJECT NO. 18-678	REG GEISMAR TRAIN B GEISMAR, LOUISIANA ASCENSION PARISH FOR REG GEISMAR, LLC GEISMAR, LOUISIANA	<table border="1"> <tr> <th>REVISION</th> <th>BY</th> </tr> <tr> <td>REVISION #1 02-24-21</td> <td>GJP</td> </tr> <tr> <td>REVISION #2 03-17-21</td> <td>GJP</td> </tr> <tr> <td>REVISION #3 06-11-21</td> <td>GJP</td> </tr> <tr> <td>REVISION #4 12-15-21</td> <td>GJP</td> </tr> </table>	REVISION	BY	REVISION #1 02-24-21	GJP	REVISION #2 03-17-21	GJP	REVISION #3 06-11-21	GJP	REVISION #4 12-15-21	GJP	<div style="color: red; font-weight: bold; font-size: 1.5em;">PRELIMINARY</div> <div style="color: red; font-weight: bold; font-size: 1.2em;">FOR PERMIT PURPOSES ONLY</div> Kainen T. LeBlanc LA PE #34314 Duplantis Design Group, P.C.	 DUPLANTIS DESIGN GROUP	314 E. Bayou Road Thibodaux, LA 70301 Office: 985.447.0090 Fax: 985.447.7009 www.ddgpc.com
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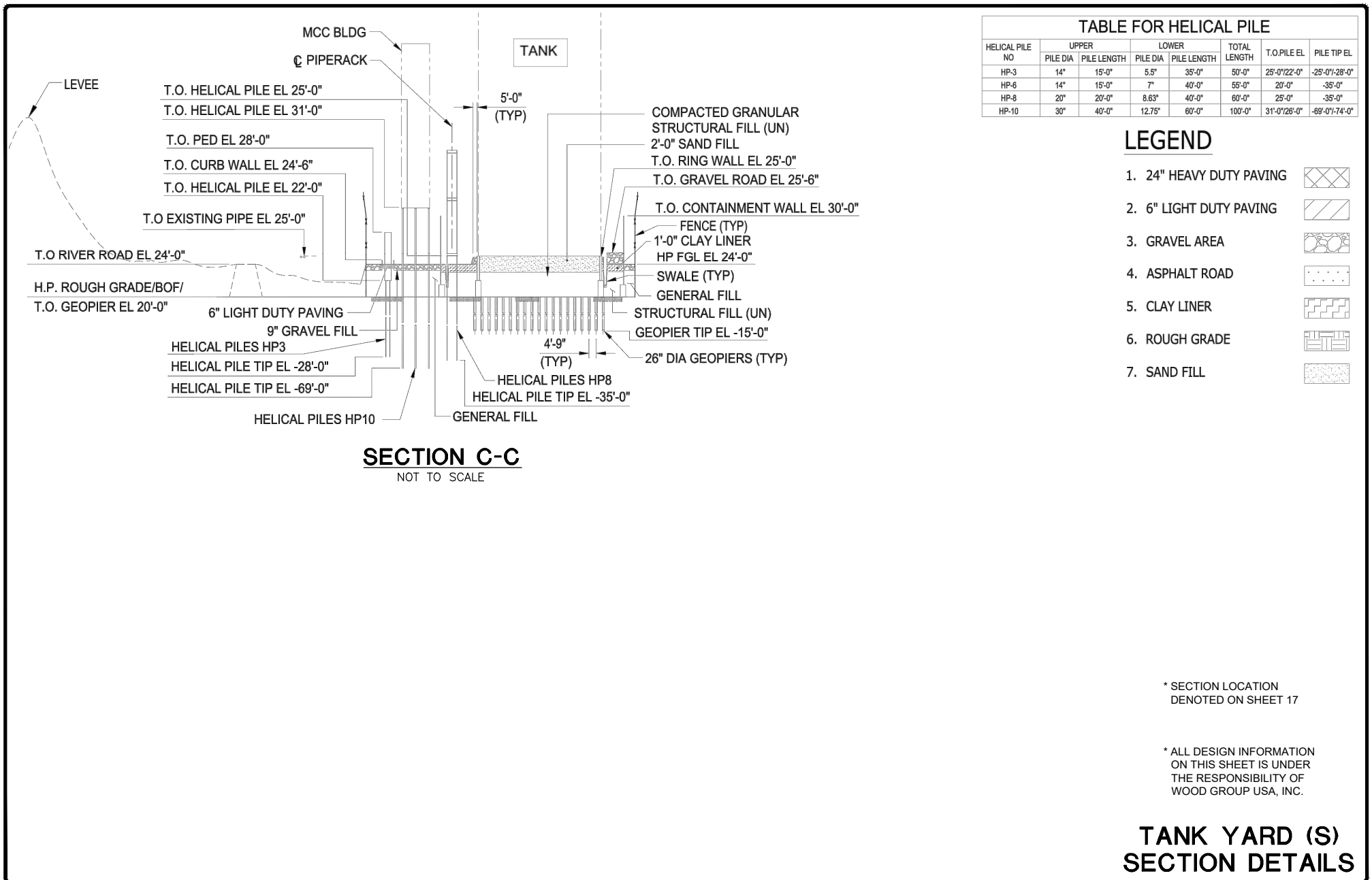


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**TANK YARD (S)
SECTION DETAILS**

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REG GEISMAR TRAIN B GEISMAR, LOUISIANA ASCENSION PARISH FOR REG GEISMAR, LLC GEISMAR, LOUISIANA
--

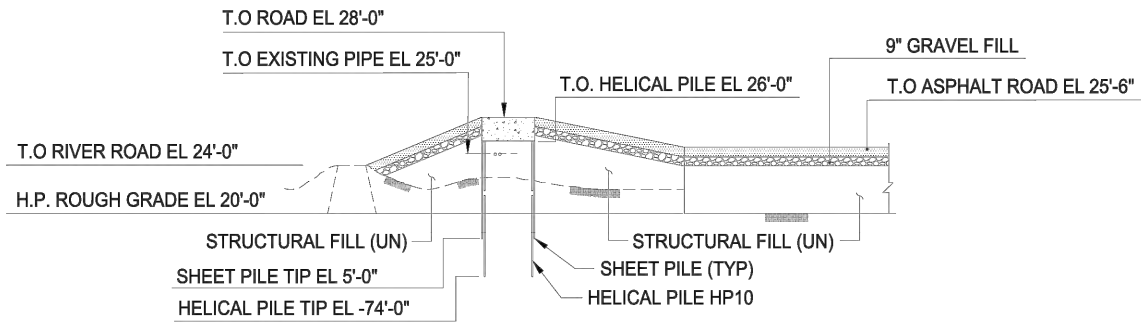
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SECTION D-D
NOT TO SCALE

TABLE FOR HELICAL PILE							
HELICAL PILE NO	UPPER		LOWER		TOTAL LENGTH	T.O.PILE EL	PILE TIP EL
	PILE DIA	PILE LENGTH	PILE DIA	PILE LENGTH			
HP-3	14"	15'-0"	5.5"	35'-0"	50'-0"	25'-07/22'-0"	-25'-07/28'-0"
HP-6	14"	15'-0"	7"	40'-0"	55'-0"	20'-0"	-35'-0"
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TRAIN B**
GEISMAR, LOUISIANA
ASCENSION PARISH

FOR REG GEISMAR, LLC
GEISMAR, LOUISIANA

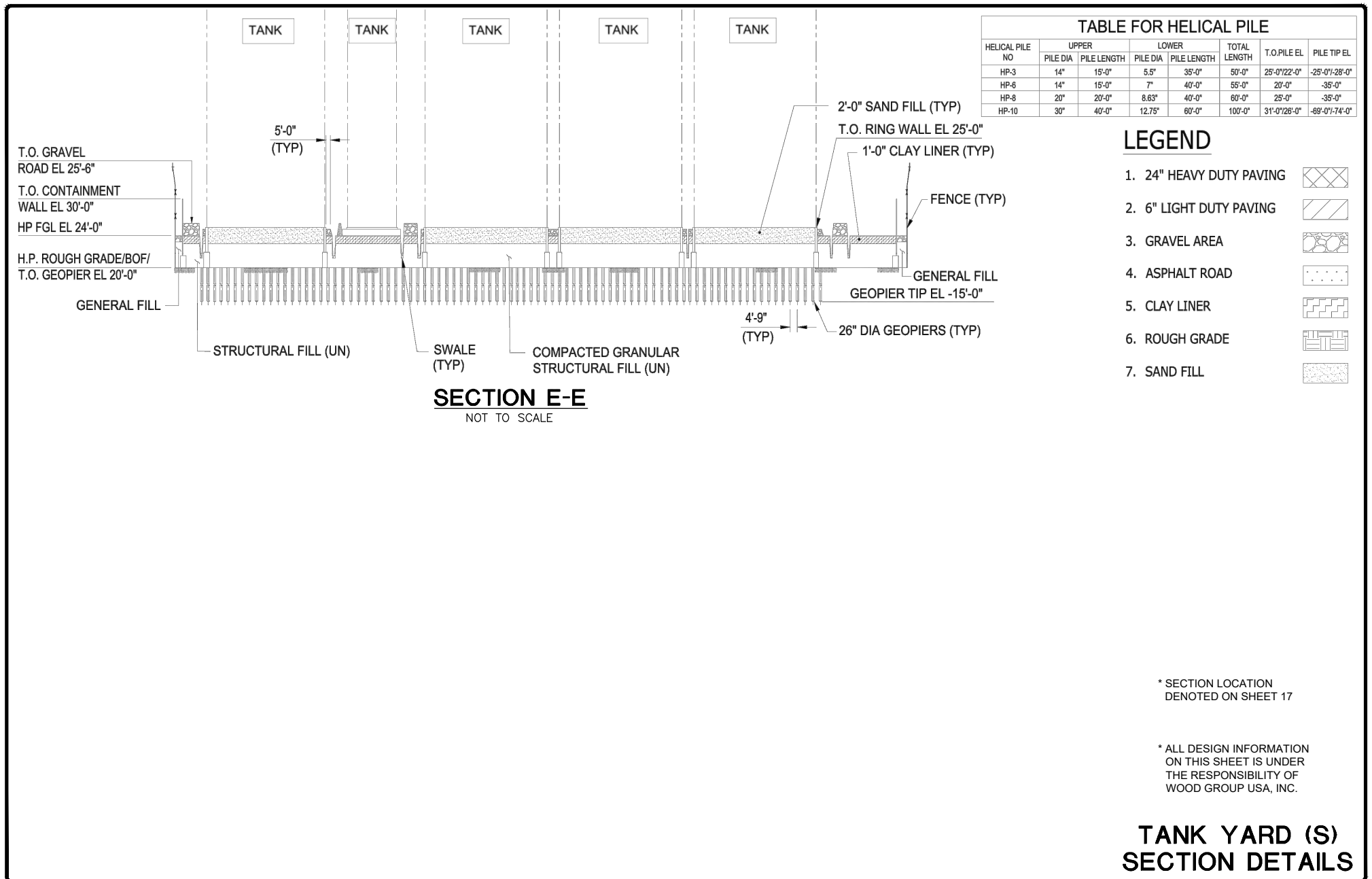
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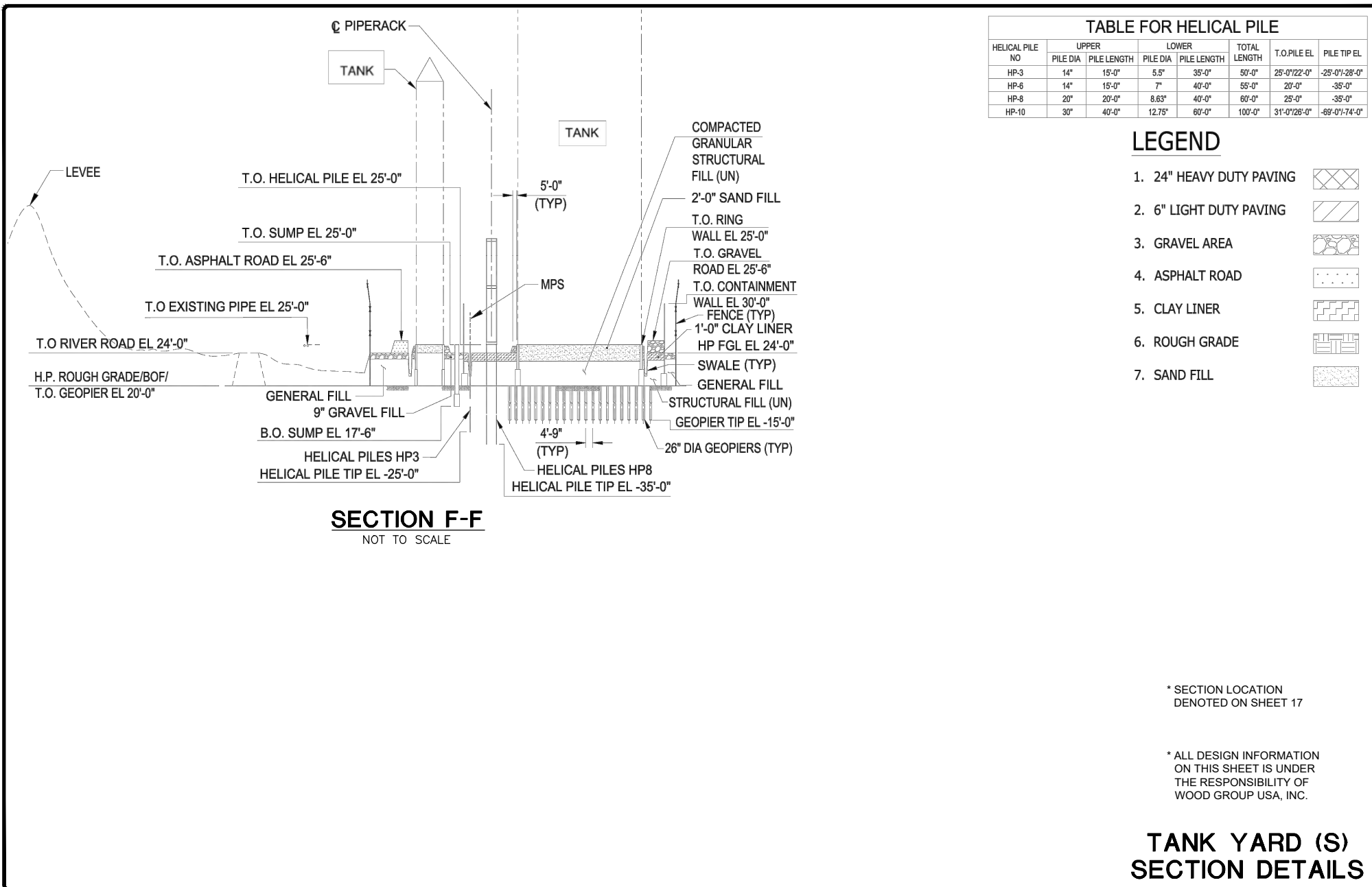


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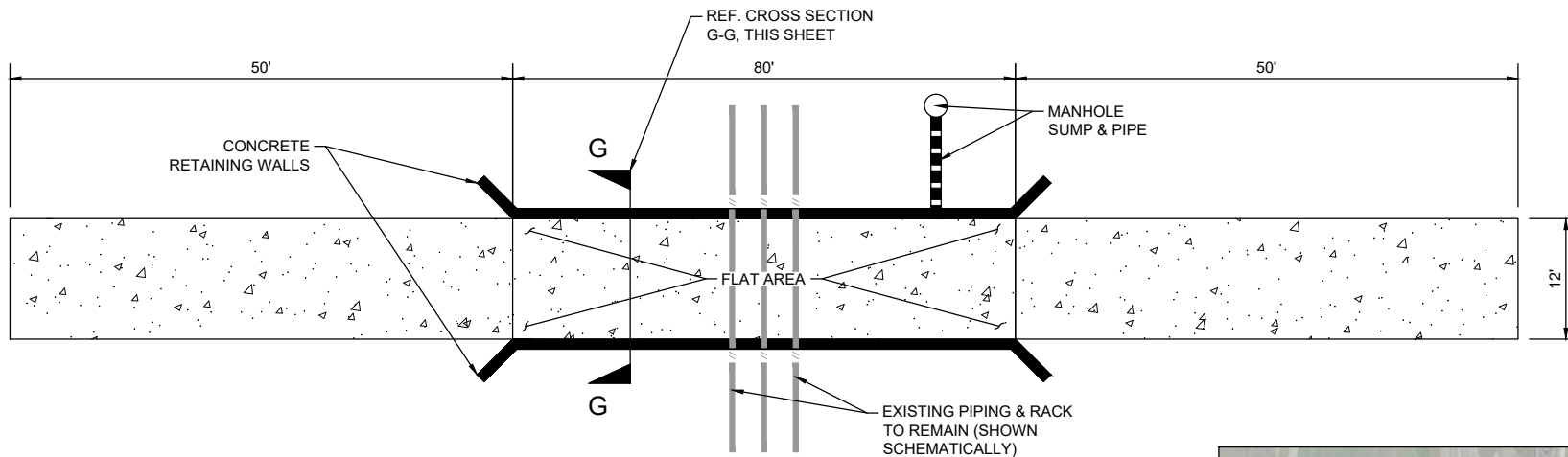
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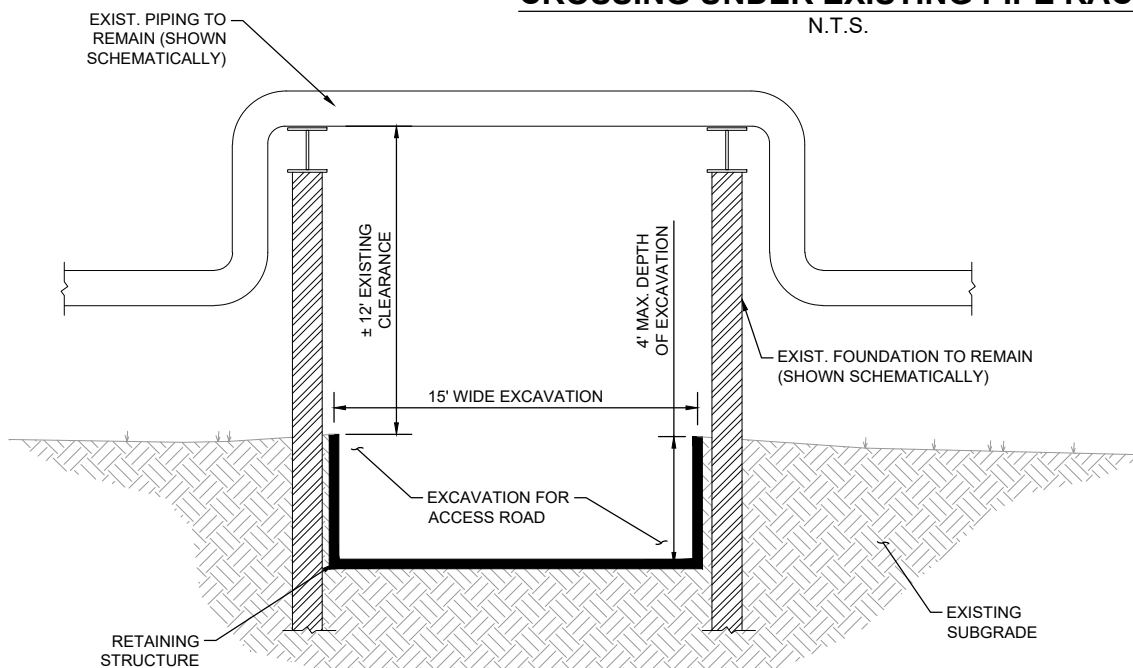
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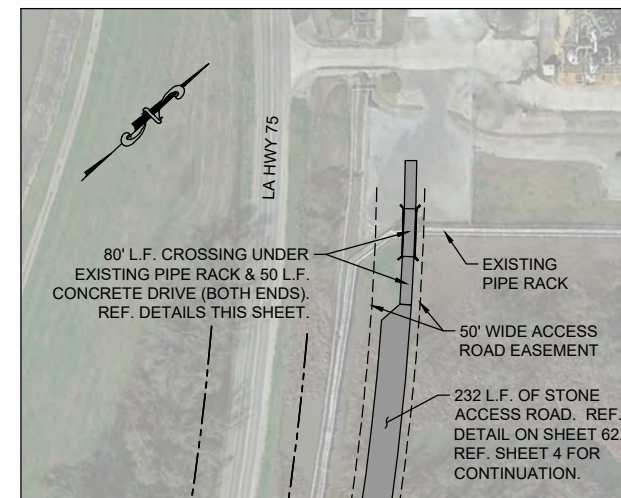
CROSSING UNDER EXISTING PIPE RACK

N.T.S.



SECTION G-G

N.T.S.



PLAN VIEW

1' = 200'

CROSSING UNDER EXISTING PIPE RACK DETAILS

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GJP

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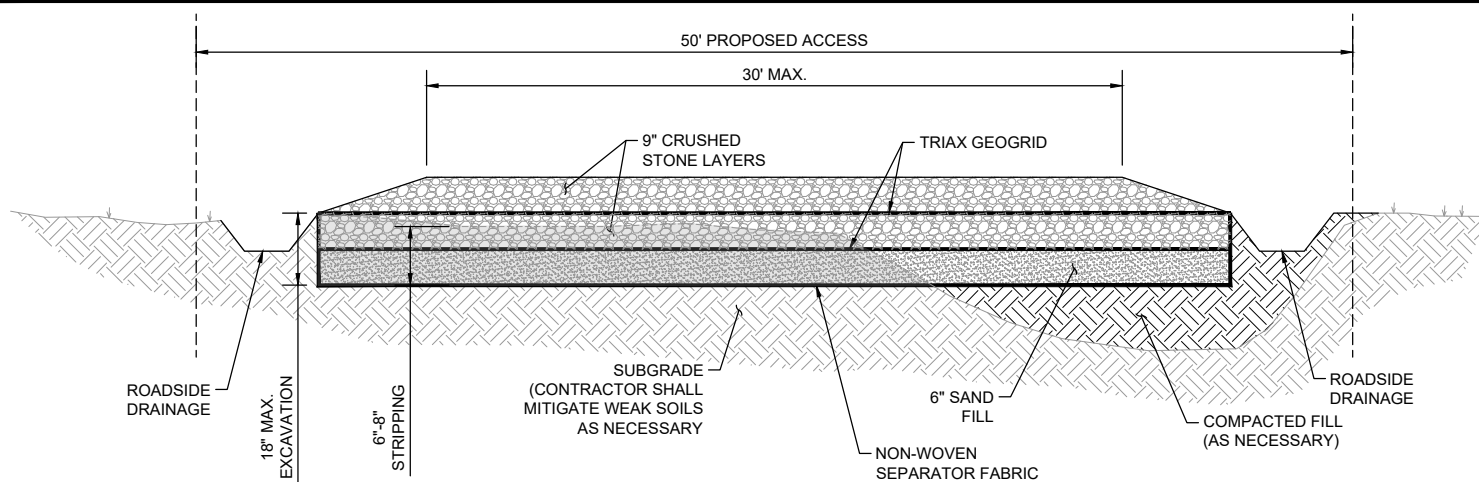
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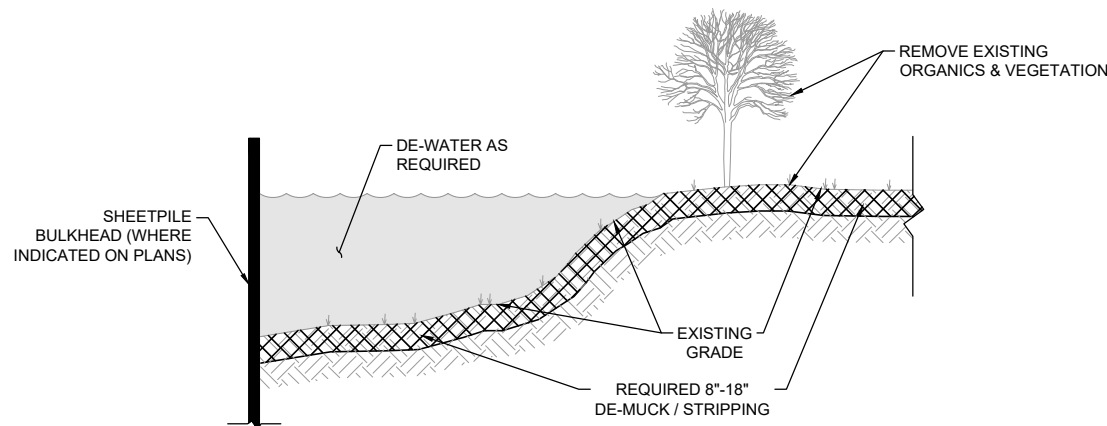
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AGGREGATE ACCESS ROAD
N.T.S.



CLEAR, GRUB & DE-WATER
TYPICAL SECTION
(ALL AREAS)
N.T.S.

* LOCATION OF ACCESS
ROAD SHOWN ON
SHEETS 4 & 61
SITE DETAILS

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LA PE #34314
Duplantis Design Group, P.C.

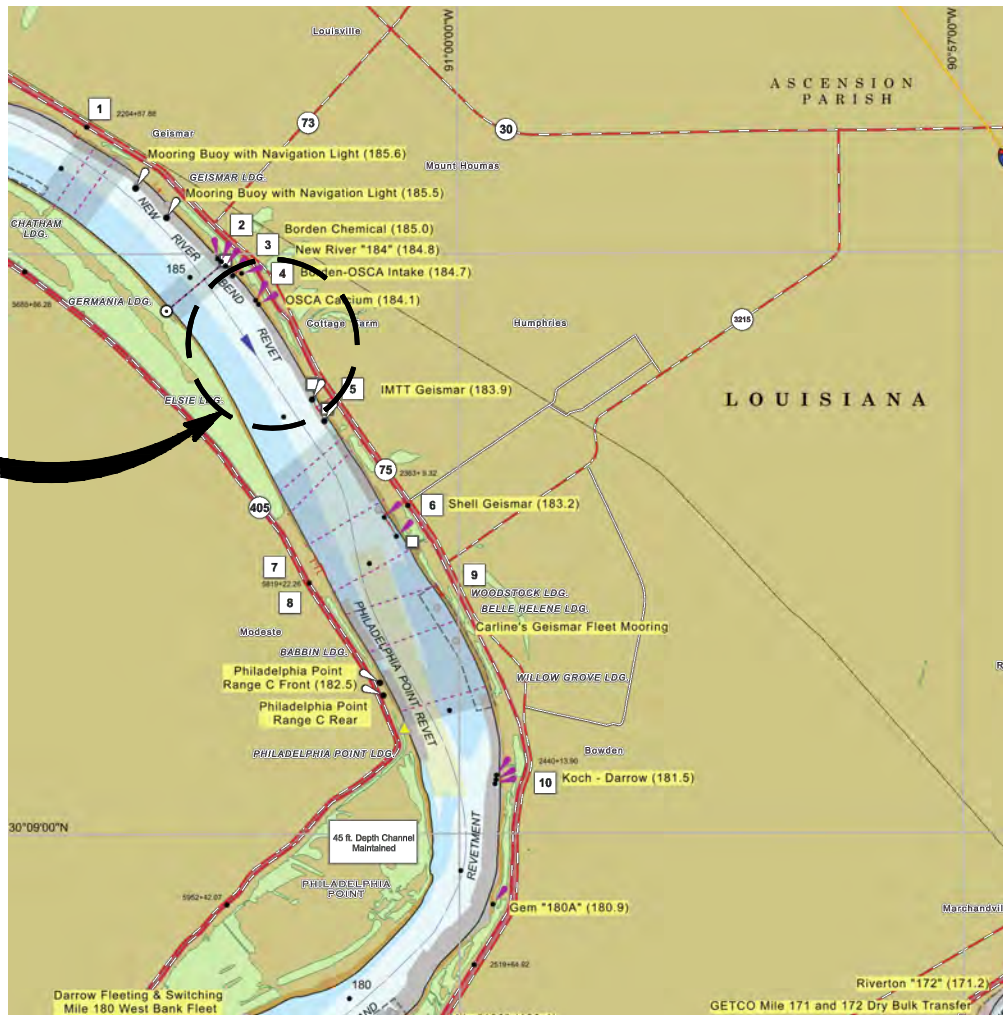


DDG
DUPLANTIS DESIGN GROUP

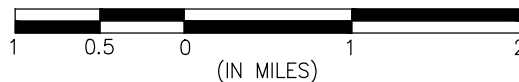
314 E. Bayou Road
Thibodaux, LA 70301
Office: 985.447.0090
Fax: 985.447.7009
www.ddgpc.com



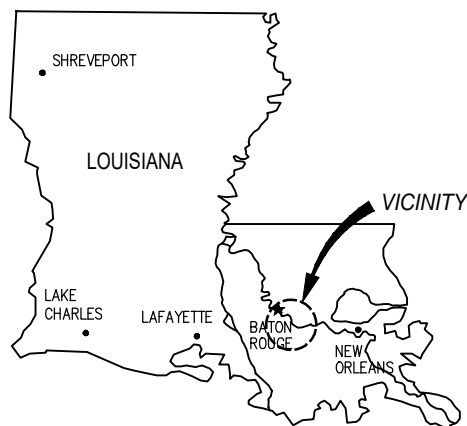
PROJECT
SITE



VICINITY MAP



ASCENSION PARISH
LAT. 30° 11' 36" N
LONG. 91° 01' 06" W



AREA MAP

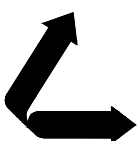
GENERAL NOTES

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 NAVD 88 UNLESS NOTED OTHERWISE.
6. REFERENCE WETLANDS IMPACTS AND PERMITTING EXHIBITS BY DDG (UNDER SEPARATE COVER).

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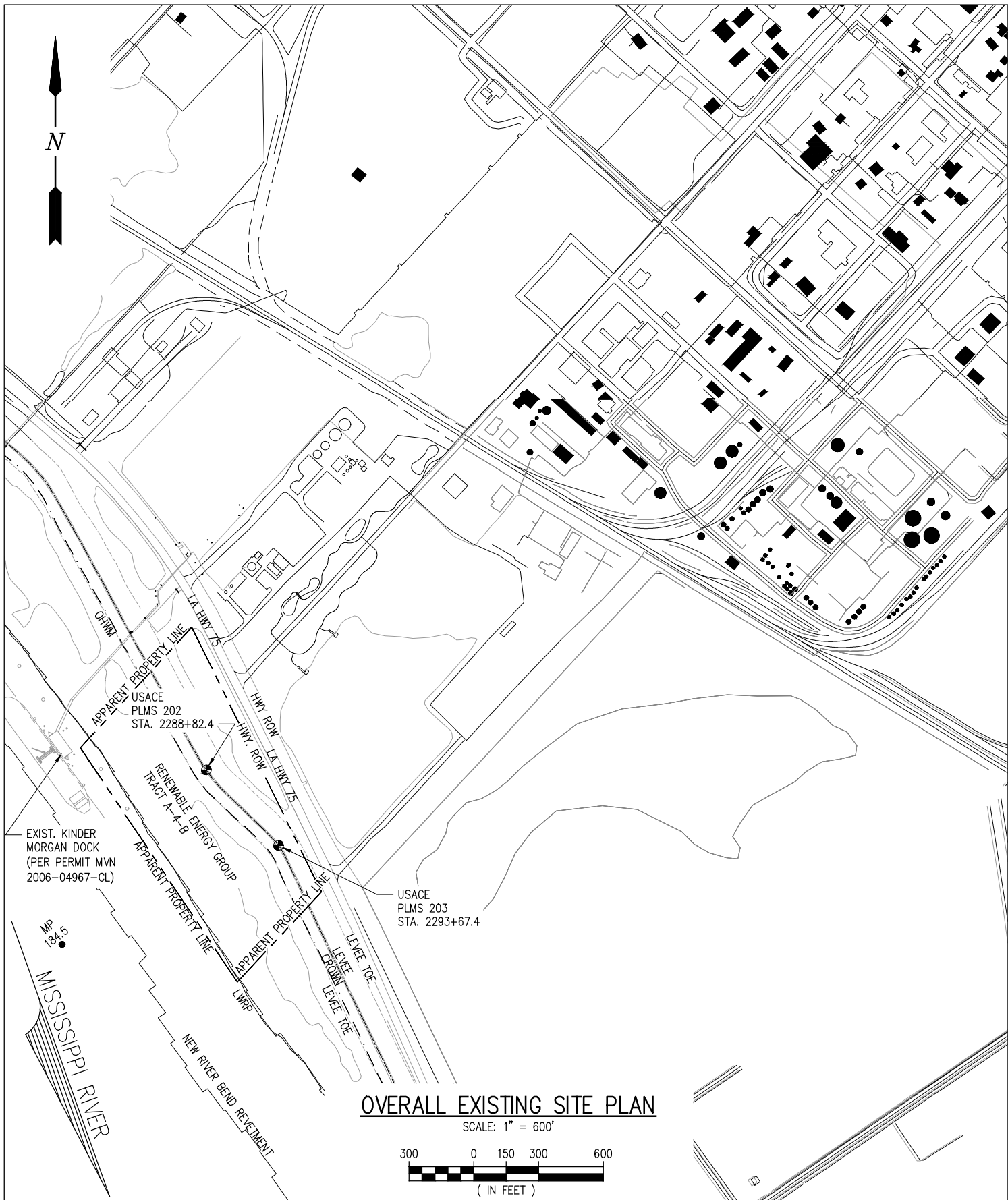
LA: C-1120 TX: F-2981
NEW ORLEANS, LA • BEAUMONT, TX

REG GEISMAR - TRAIN B
GEISMAR LOUISIANA

NEW MARINE FACILITY
VICINITY MAP AND AREA MAP

DATE APRIL 2020
DESIGN EMG
DRAWN DLL
CHECK BNF
JOB NO 11039-2
SHEET No.
63 OF 90

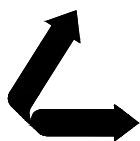
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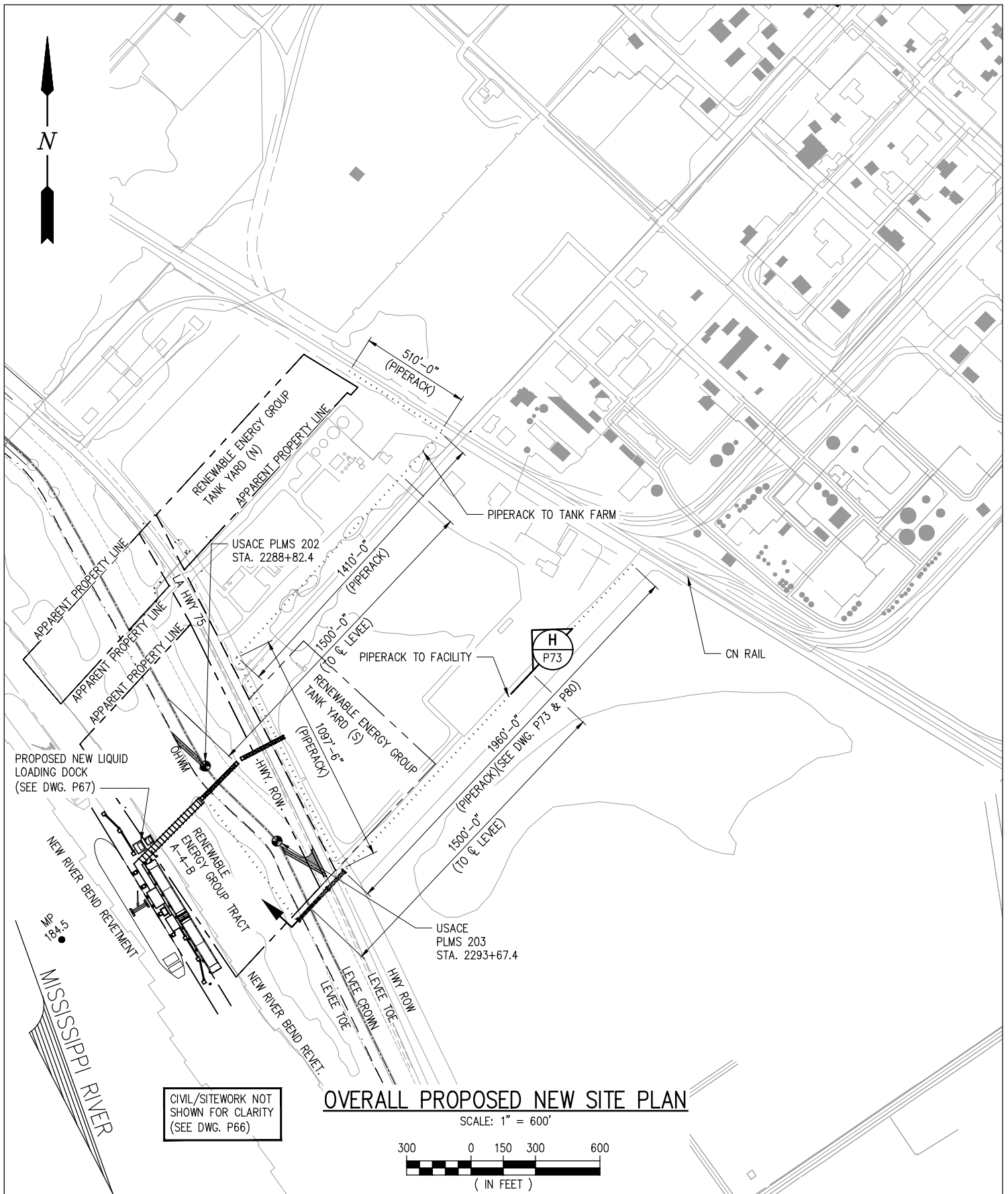
REG GEISMAR - TRAIN B

LOUISIANA

NEW MARINE FACILITY
OVERALL EXISTING SITE PLAN

DATE APRIL 2020
DESIGN EMG
DRAWN DLL
CHECK BNF
JOB NO 11039-2
SHEET No.
64 OF **90**

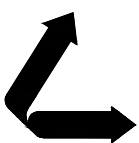
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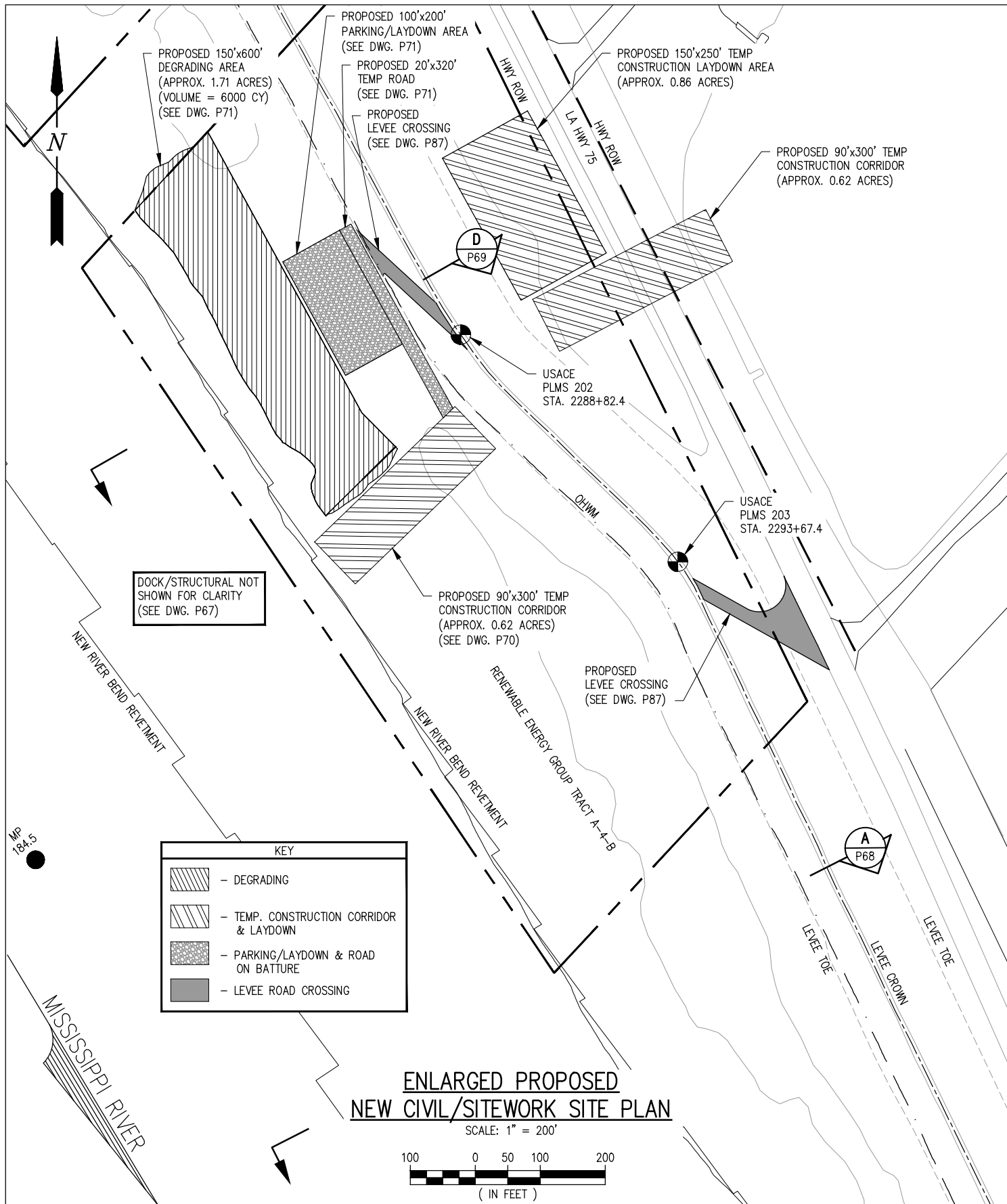
REG GEISMAR - TRAIN B

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NEW MARINE FACILITY
OVERALL PROPOSED NEW SITE PLAN

DATE APRIL 2020
DESIGN EMG
DRAWN DLL
CHECK BNF
JOB NO 11039-2
SHEET No.
65 OF 90

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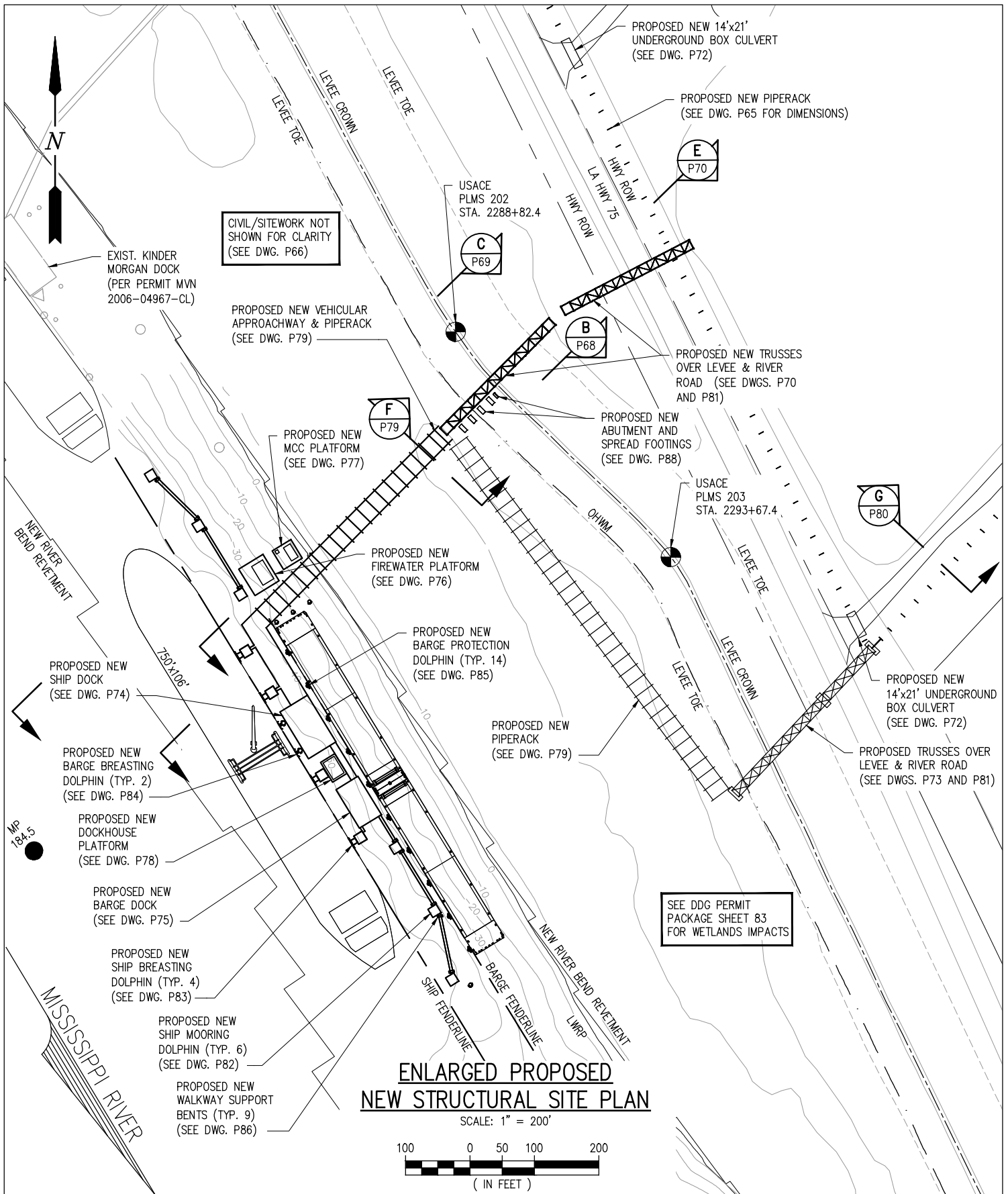
GEISMAR

REG GEISMAR - TRAIN B

LOUISIANA

NEW MARINE FACILITY
ENLARGED PROPOSED
NEW CIVIL/SITWORK SITE PLAN

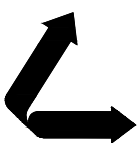
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DESIGN EMG
DRAWN DLL
CHECK BNF
JOB NO 11039-2
SHEET No.
66 OF 90



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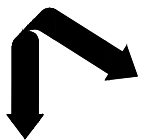
REG GEISMAR - TRAIN B

LOUISIANA

NEW MARINE FACILITY
ENLARGED PROPOSED
NEW STRUCTURAL SITE PLAN

DATE APRIL 2020
DESIGN EMG
DRAWN DLL
CHECK BNF
JOB NO 11039-2
SHEET No.
67 OF 90

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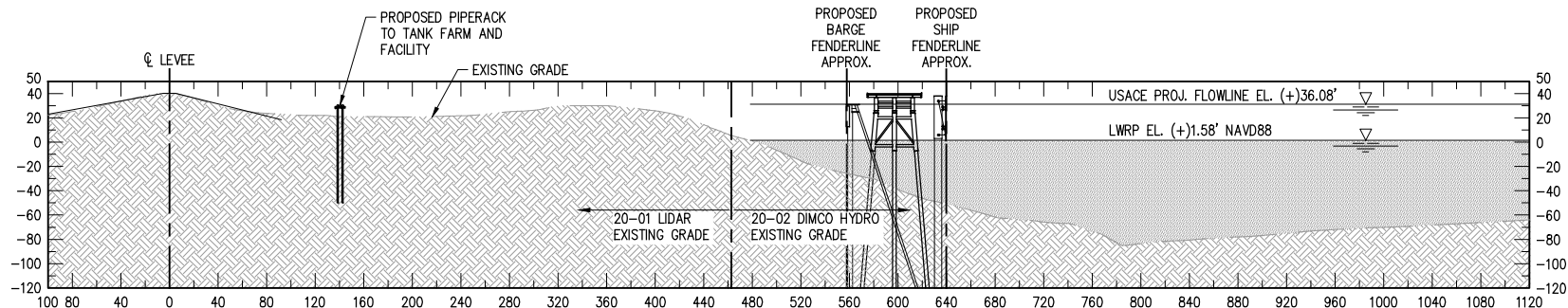
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NEW MARINE FACILITY
PROPOSED CROSS SECTIONS

DATE APRIL 2020
DESIGN EMG
DRAWN DLL
CHECK BNF
JOB NO. 11039-2
SHEET No.
68 OF 90

REV
2

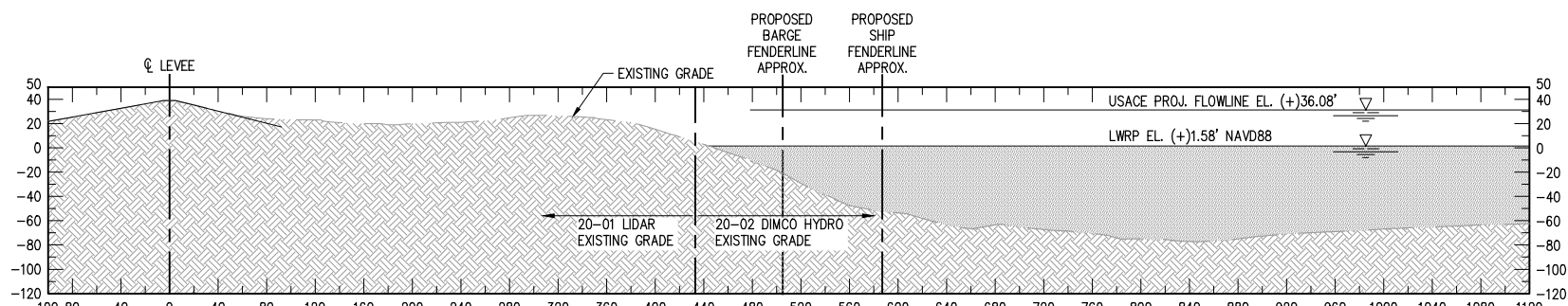


USACE STA. 2293+09.3

SCALE: 1" = 150'-0"

B

P67

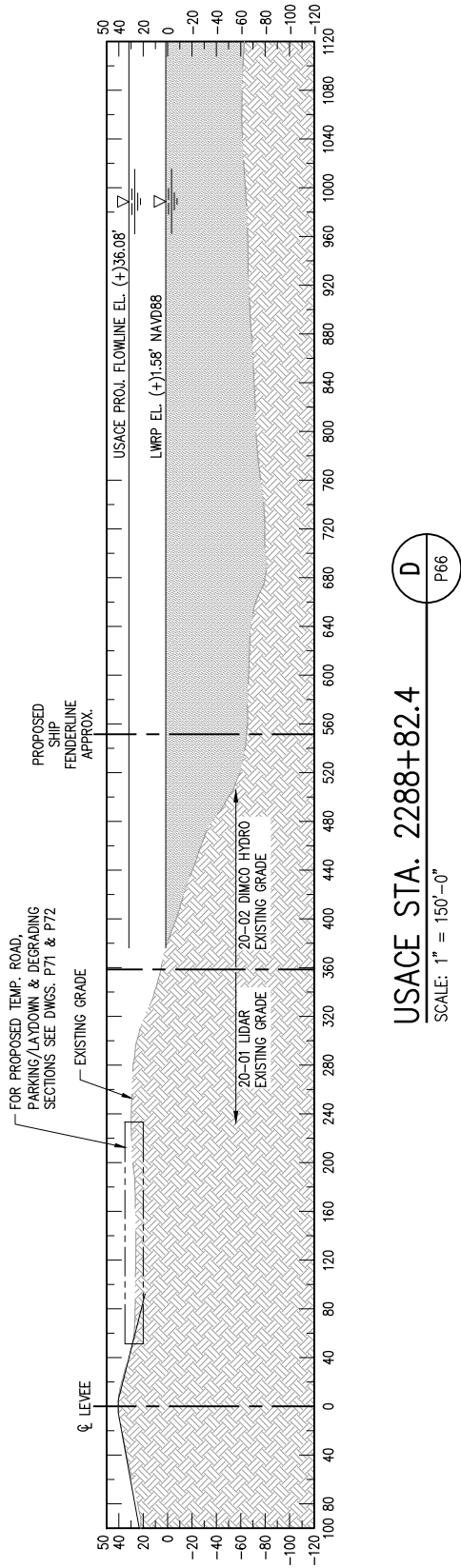


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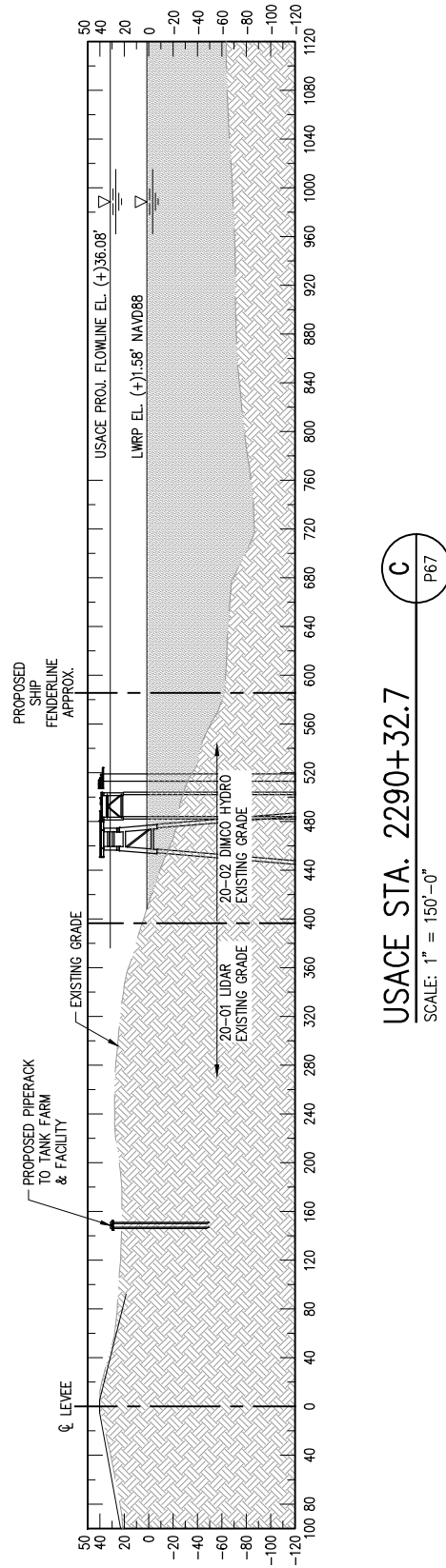
SCALE: 1" = 150'-0"

A

P66



USACE STA. 2288+82.4
SCALE: 1" = 150'-0"
D
P66

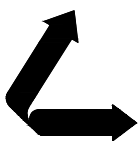


USACE STA. 2290+32.7
SCALE: 1" = 150'-0"
C
P67

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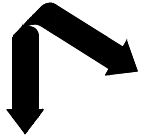
GEISMAR

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NEW MARINE FACILITY
PROPOSED CROSS SECTIONS

DATE APRIL 2020
DESIGN EMG
DRAWN DLL
CHECK BNF
JOB NO 11039-2
SHEET No.
69 OF **90**



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GEISMAR REG GEISMAR - TRAIN B LOUISIANA

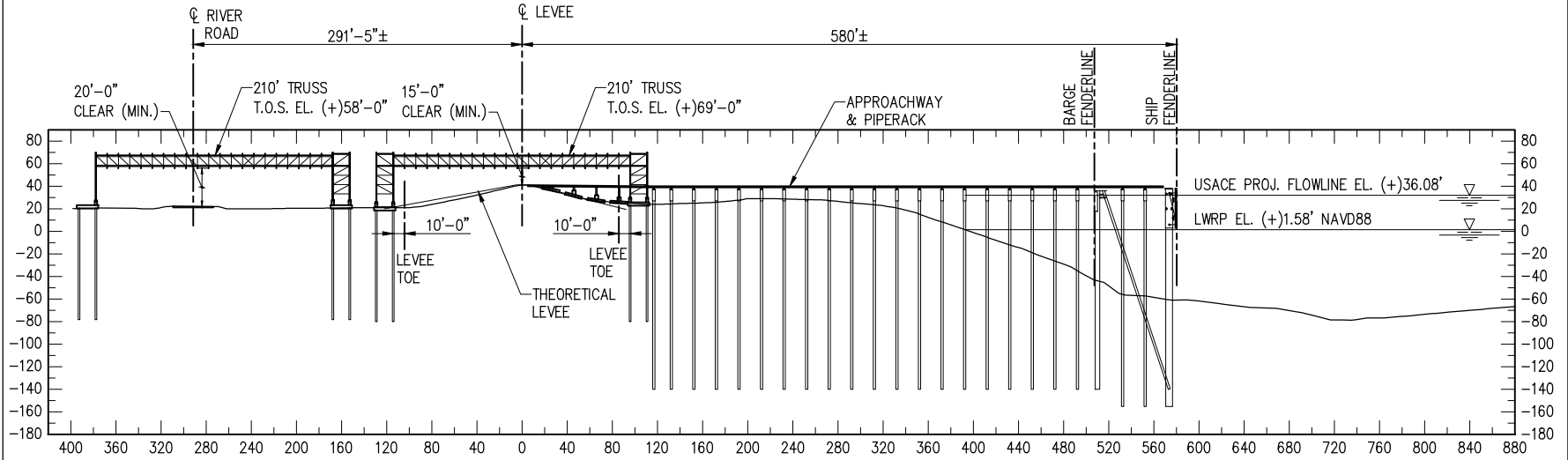
NEW MARINE FACILITY
GENERAL ARRANGEMENT
ELEVATION @ APPROACH

DATE APRIL 2020
DESIGN EMG
DRAW DUL
CHECK BNF
JOB NO. 11039-2
SHEET No.
70 OF 90

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LA PE #41445

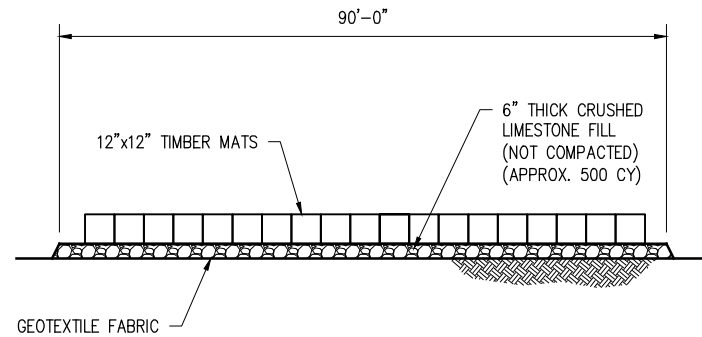
PRELIMINARY - FOR PERMIT PURPOSES ONLY

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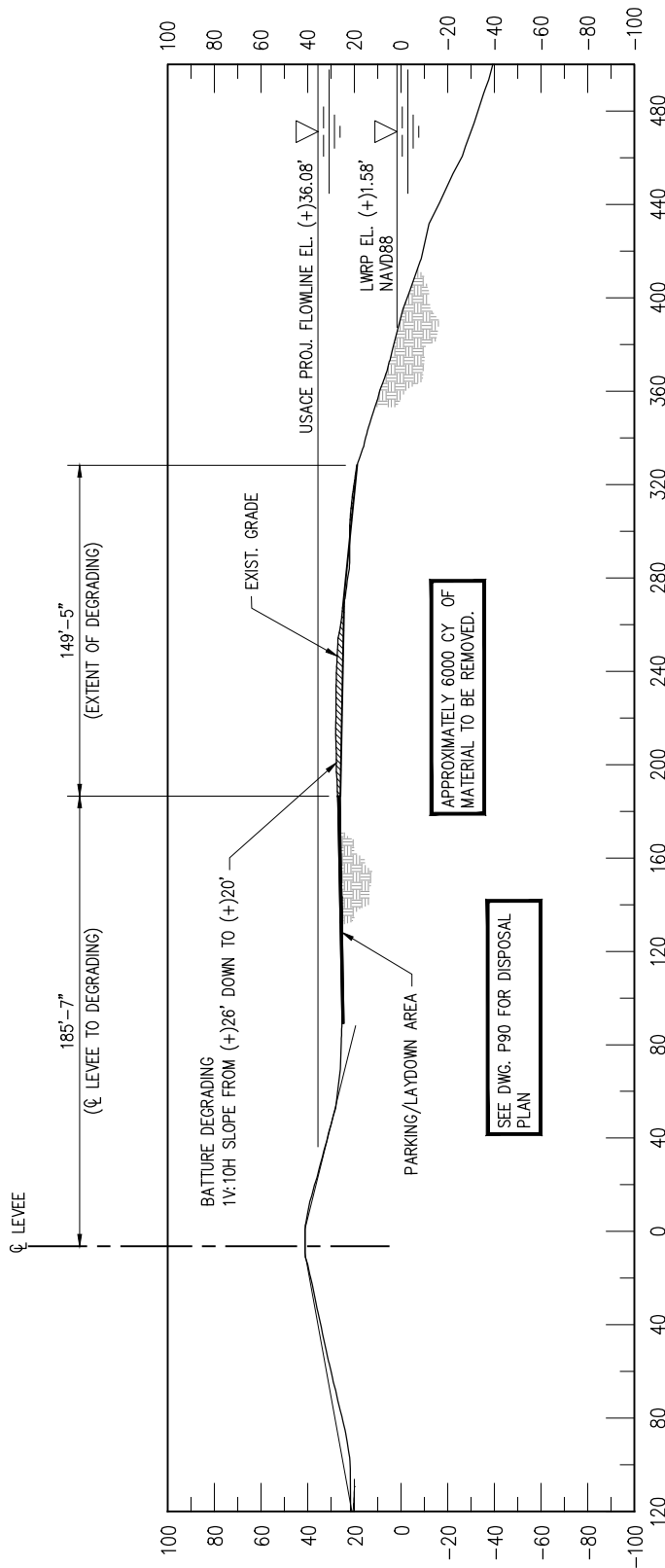
SECTION

SCALE: 1" = 150'-0"



TEMP. CONSTRUCTION CORRIDOR SECTION ON BATTURE

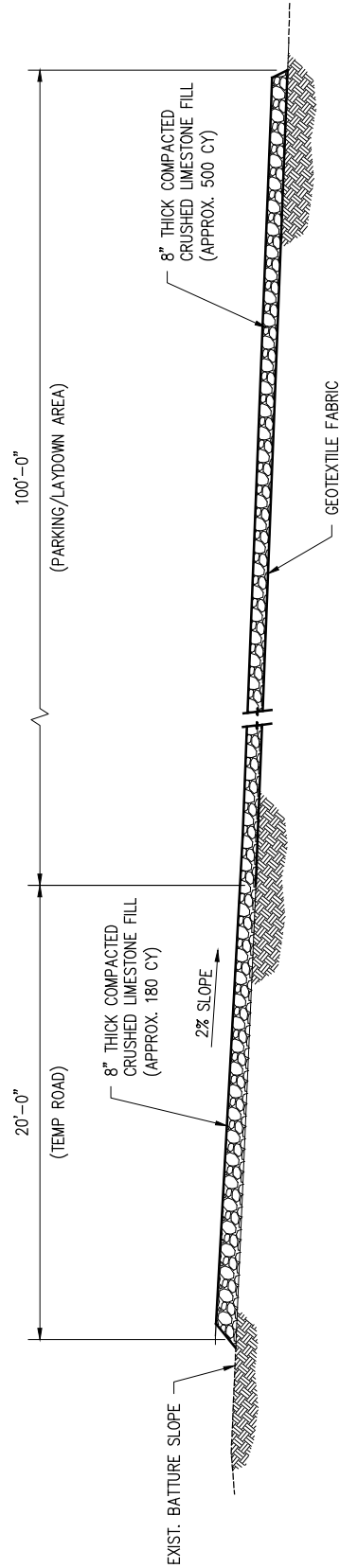
SCALE: N.T.S.



SECTION AT STA. 2288+82.4

SCALE: 1" = 80'-0"

P66



TEMP. ROAD & PARKING/LAYDOWN SECTION ON BATTURE

SCALE: N.T.S.

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NEW MARINE FACILITY
BATTURE DEGRADING AND TEMP. ROAD
& PARKING/LAYDOWN SECTIONS

DATE APRIL 2020
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DRAWN DLL
CHECK BNF
JOB NO 11039-2
SHEET No.
71 OF 90

TOP OF ROAD

BOTTOM OF ROAD

8" THICK COMPACTED CRUSHED LIMESTONE

3'-0" COVER (MIN.)

8'-0"

10"

8"

12'-6"

12'-10"

1'-0"

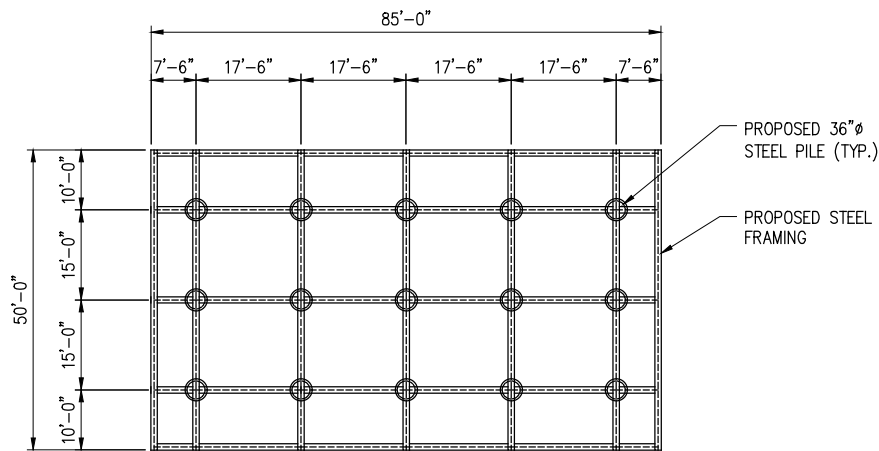
12" THICK COMPACTED CRUSHED LIMESTONE

(EXCAVATION)(SEE DWG. 90 FOR DISPOSAL)

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

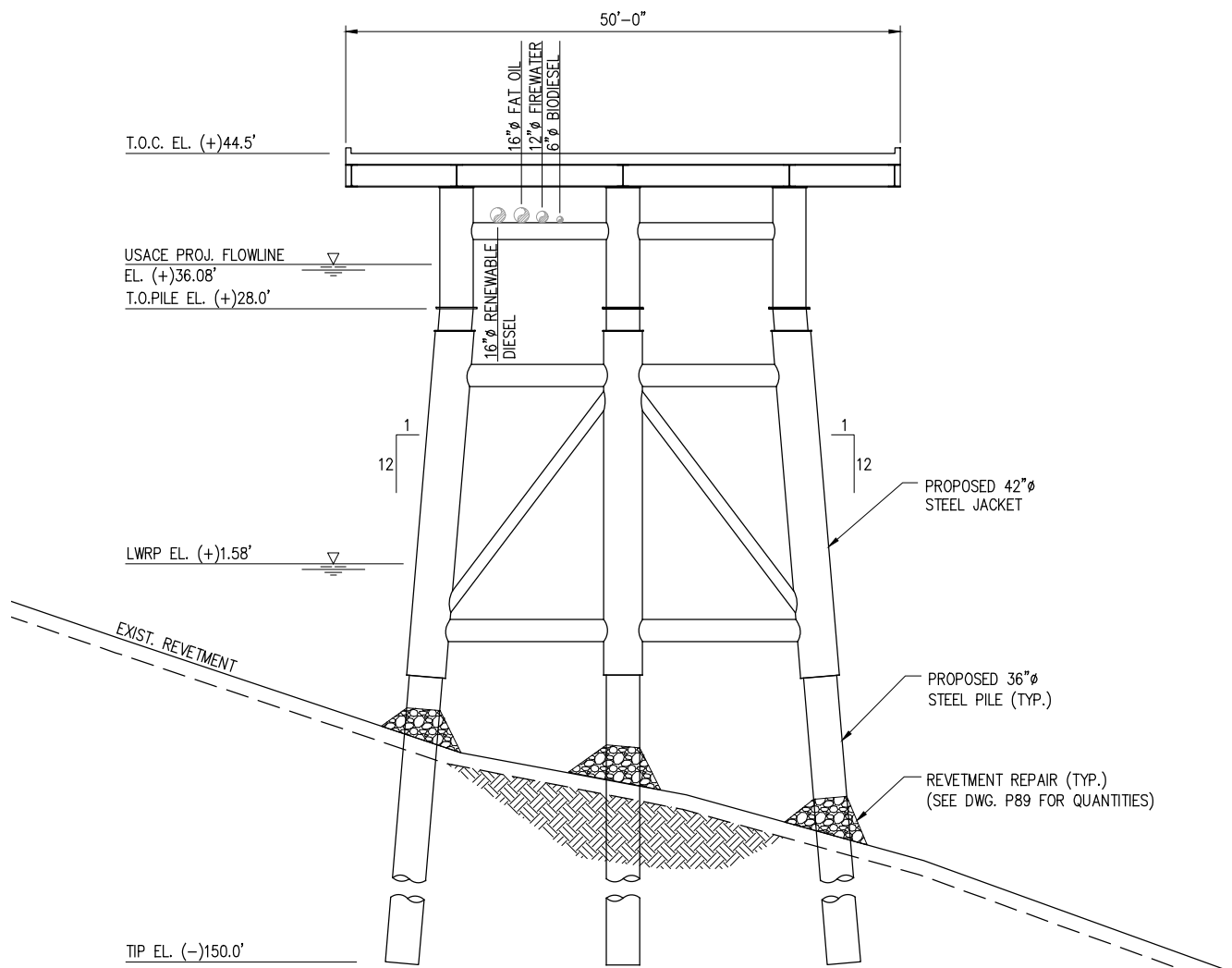
DATE APRIL 2020
 DESIGN EMG
 DRAWN DLL
 CHECK BNF
 JOB NO. 11039-2
 SHEET No.
72 OF **90**

DATE APRIL 2020
 DESIGN EMG
 DRAWN DLL
 CHECK BNF
 JOB NO 11039-2
 SHEET No.
73 OF **90**



SHIP DOCK PLAN

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



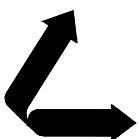
TYPICAL SHIP DOCK SECTION

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

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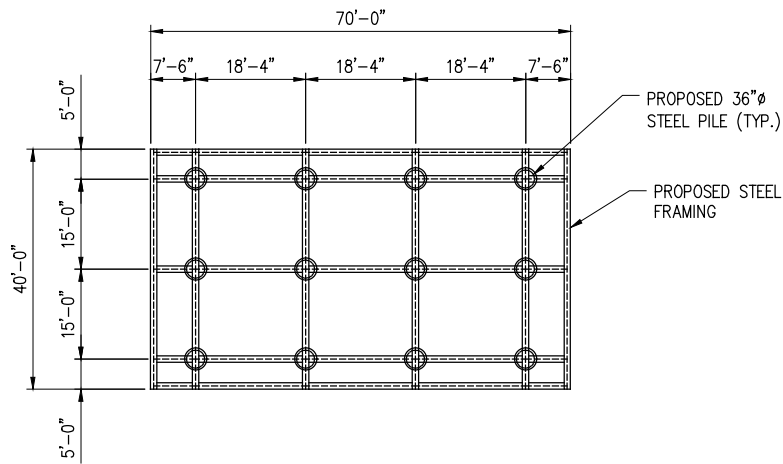
GEISMAR

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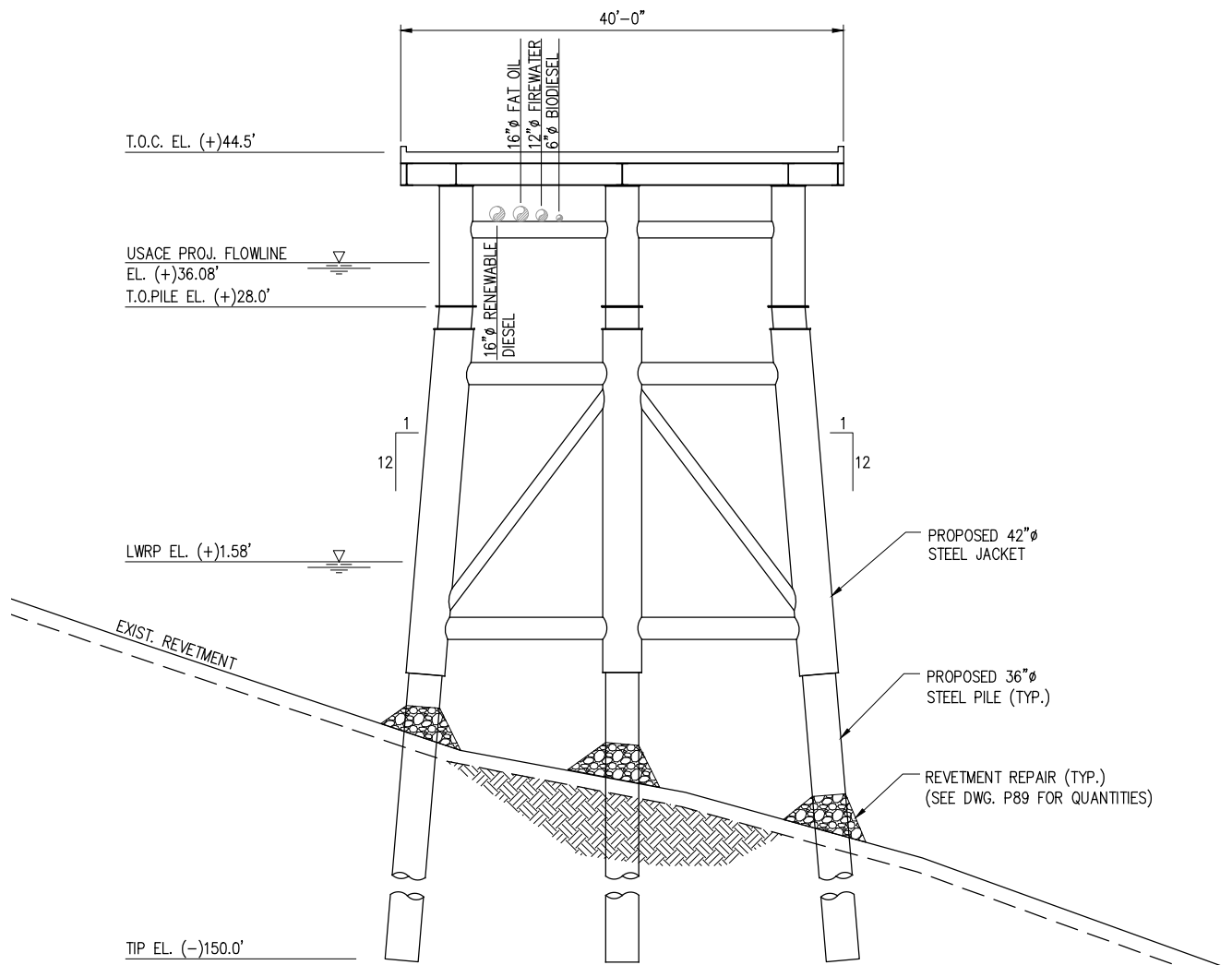
NEW MARINE FACILITY
TYPICAL SHIP DOCK
PLAN & SECTION

DATE APRIL 2020
DESIGN EMG
DRAWN DLL
CHECK BNF
JOB NO 11039-2
SHEET No.
74 OF **90**



BARGE DOCK PLAN

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



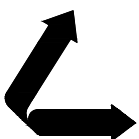
TYPICAL BARGE DOCK SECTION

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

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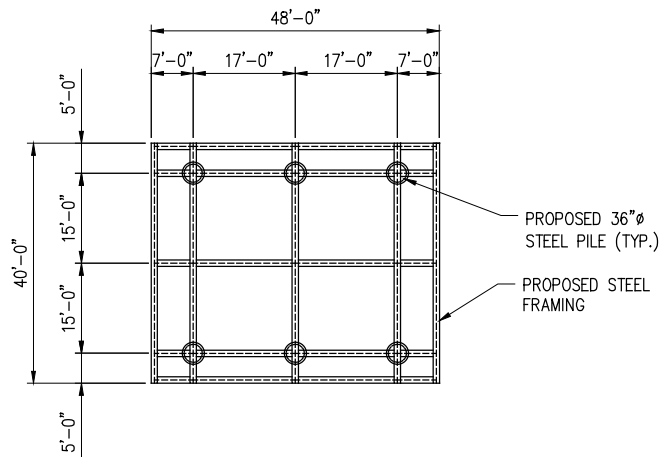
GEISMAR

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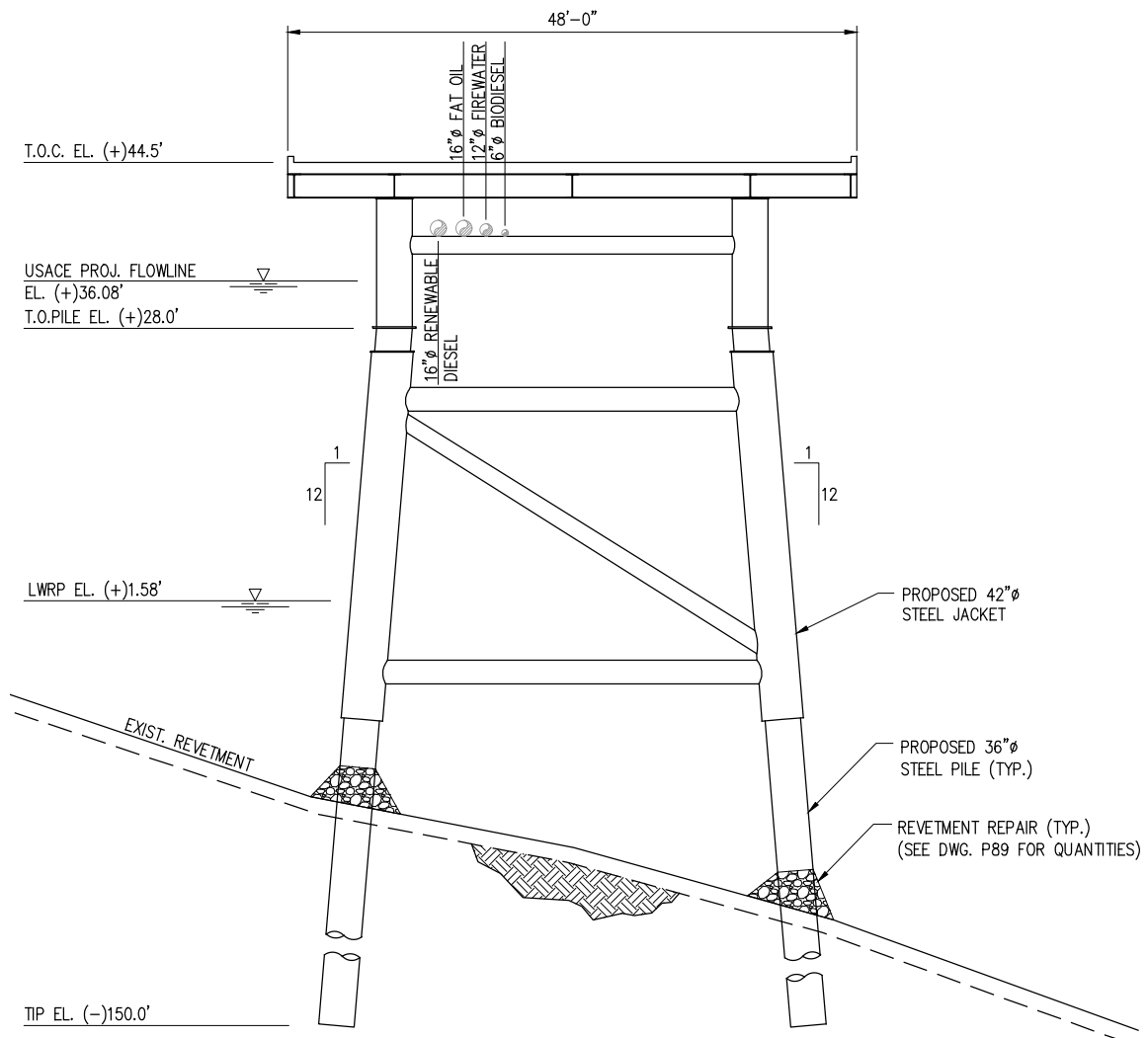
NEW MARINE FACILITY
TYPICAL BARGE DOCK
PLAN & SECTION

DATE APRIL 2020
DESIGN EMG
DRAWN DLL
CHECK BNF
JOB NO 11039-2
SHEET No.
75 OF **90**



FIREWATER PLATFORM PLAN

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



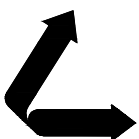
TYPICAL FIREWATER PLATFORM SECTION

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

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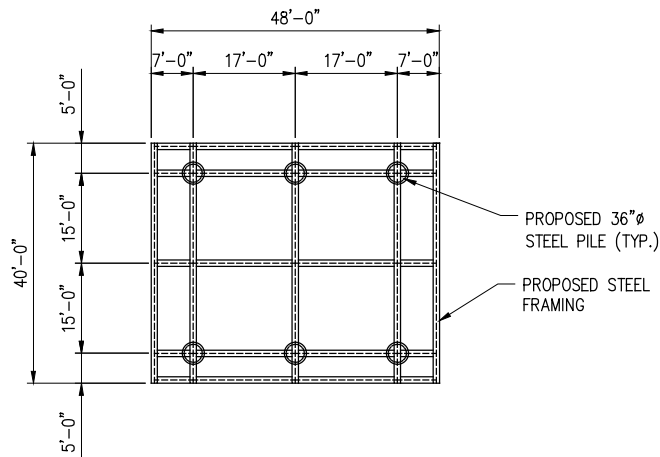
GEISMAR

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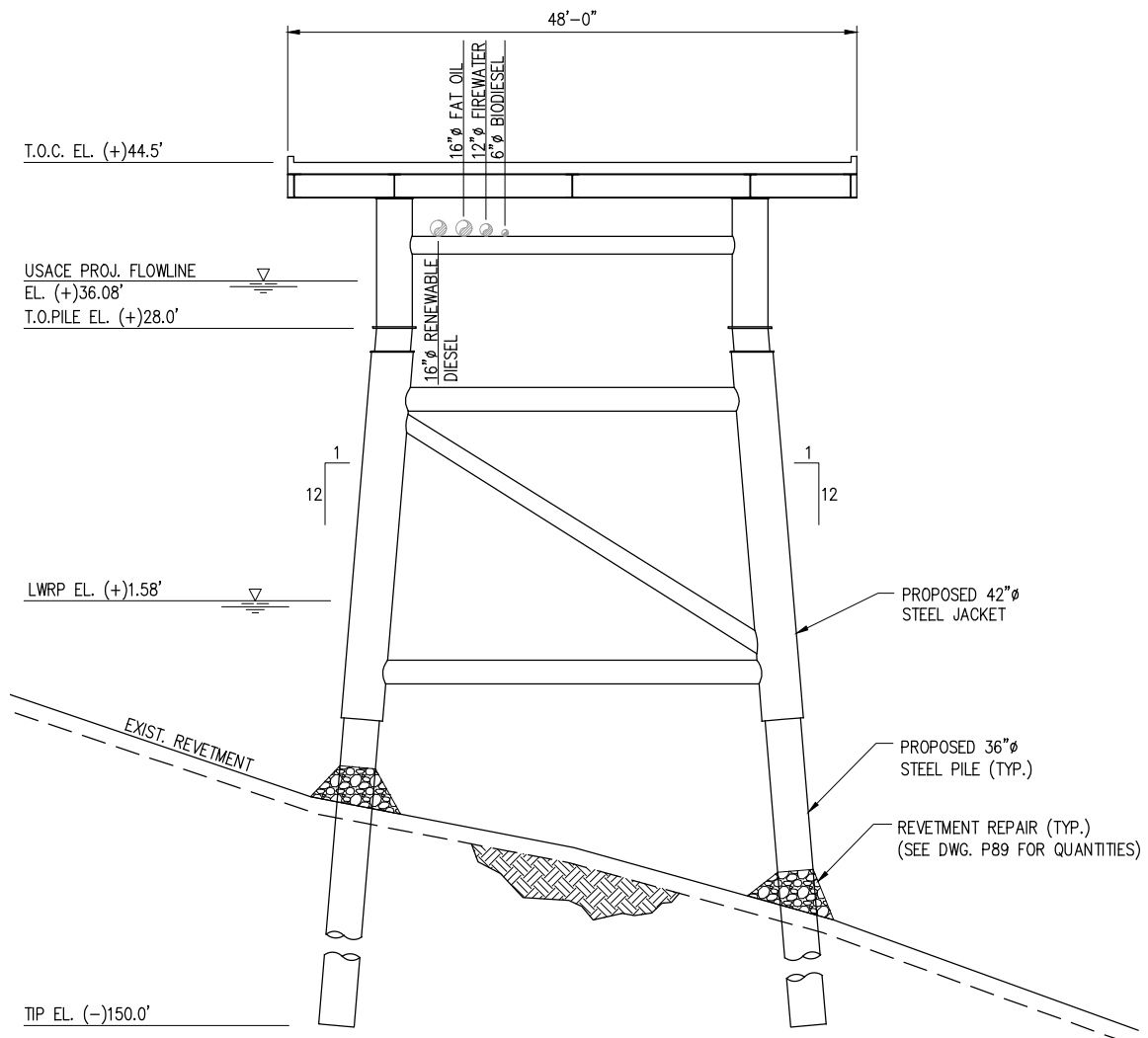
NEW MARINE FACILITY
TYP. FIREWATER PLATFORM
PLAN & SECTION

DATE APRIL 2020
DESIGN EMG
DRAWN DLL
CHECK BNF
JOB NO 11039-2
SHEET No.
76 OF **90**



MCC PLATFORM PLAN

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



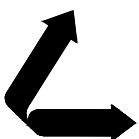
TYPICAL MCC PLATFORM SECTION

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

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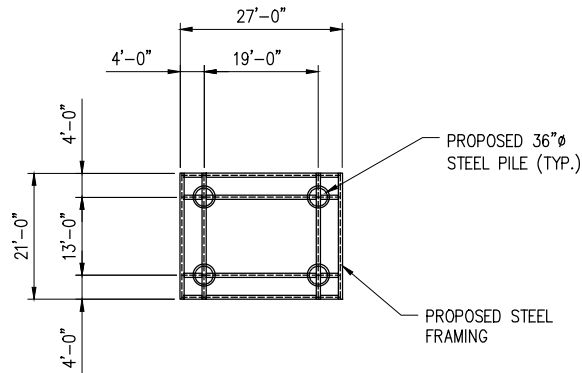
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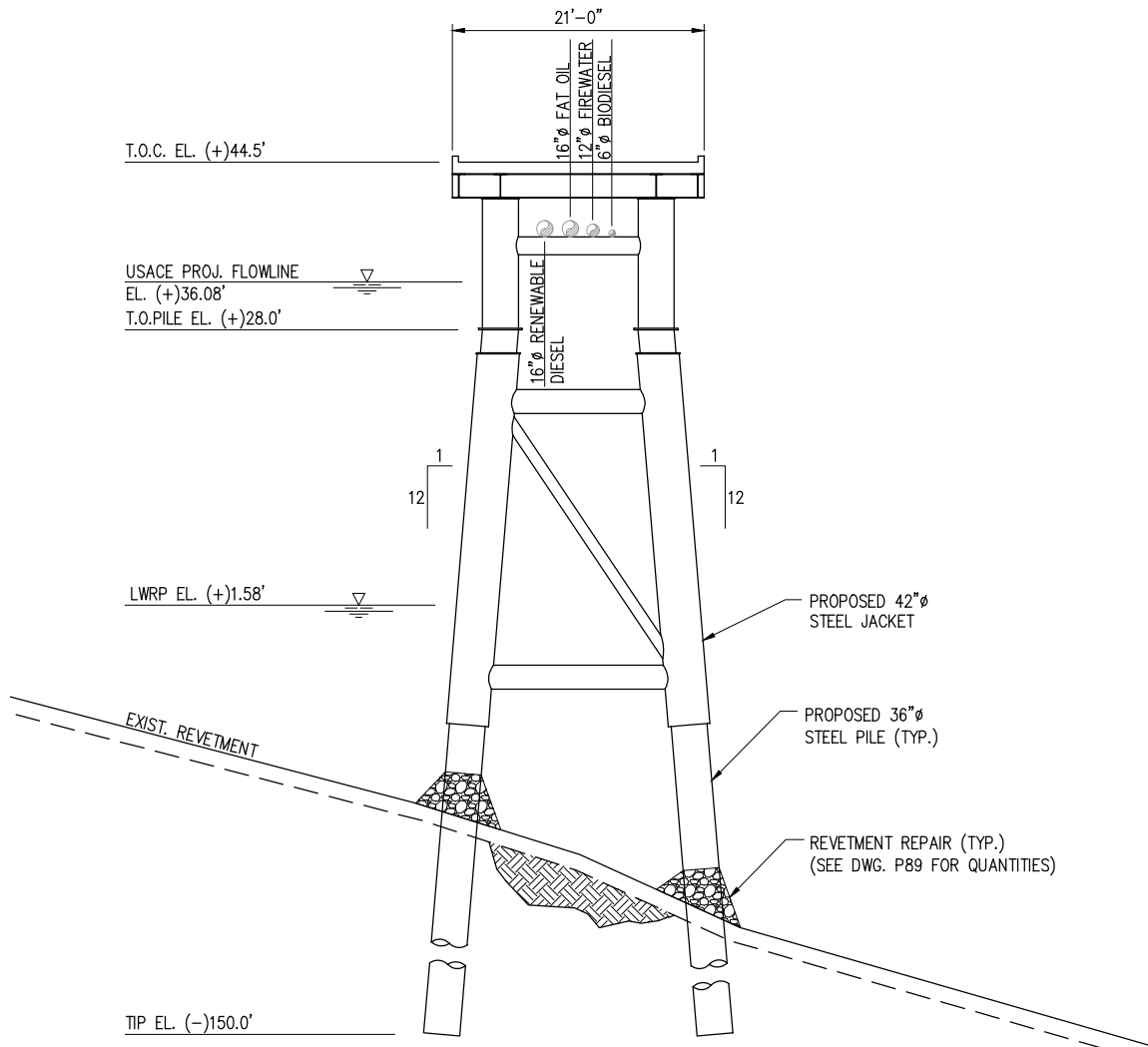
NEW MARINE FACILITY
TYP. MCC PLATFORM
PLAN & SECTION

DATE APRIL 2020
DESIGN EMG
DRAWN DLL
CHECK BNF
JOB NO 11039-2
SHEET No.
77 OF 90



DOCKHOUSE PLATFORM PLAN

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



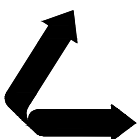
TYPICAL DOCKHOUSE PLATFORM SECTION

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

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TYP. DOCKHOUSE PLATFORM
PLAN & SECTION

DATE APRIL 2020

DESIGN EMG

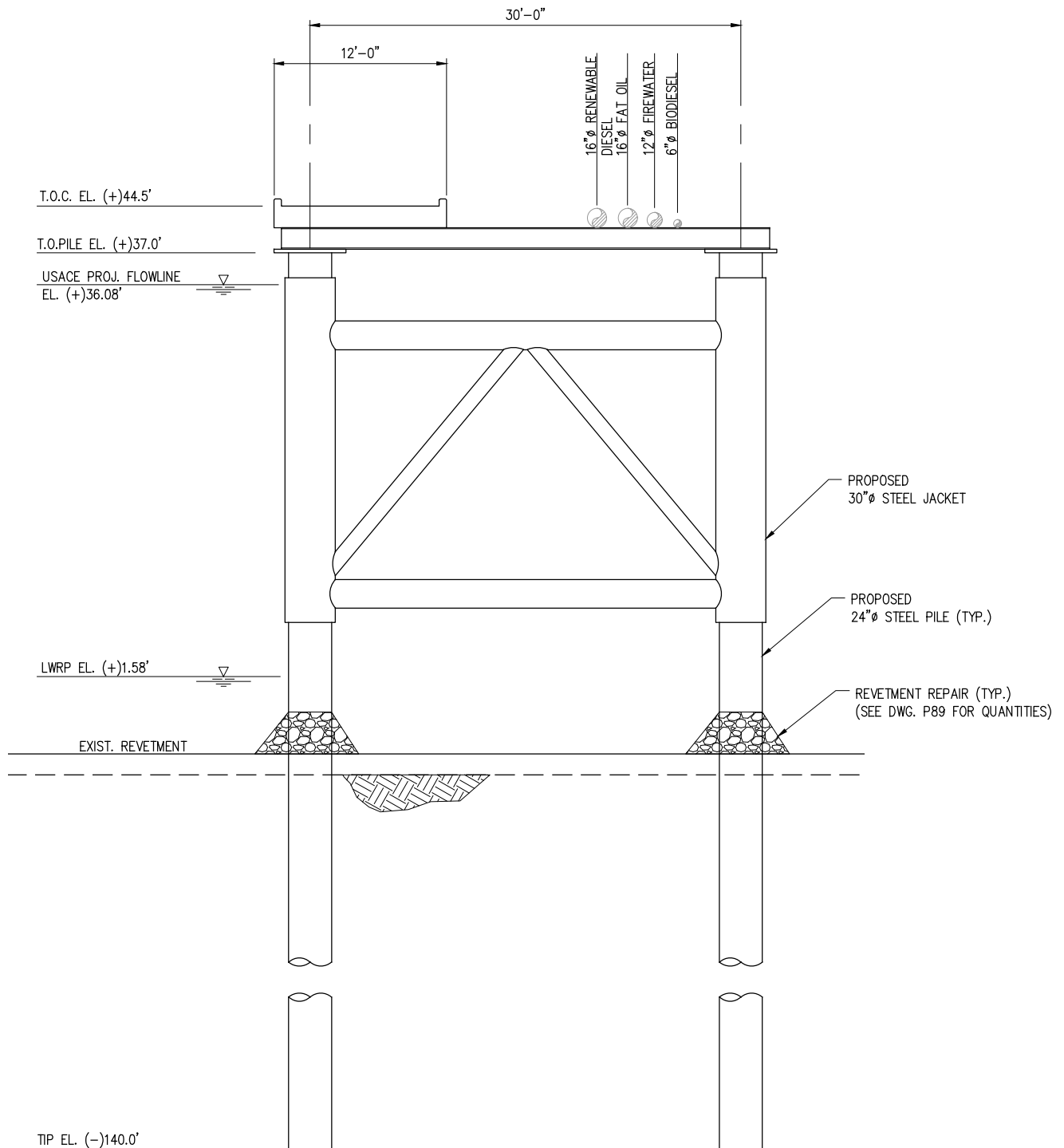
DRAWN DLL

CHECK BNF

JOB NO 11039-2

SHEET No.

78 OF 90



TYPICAL APPROACH & PIPERACK SECTION

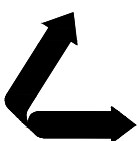
SCALE: 3/32" = 1'-0"



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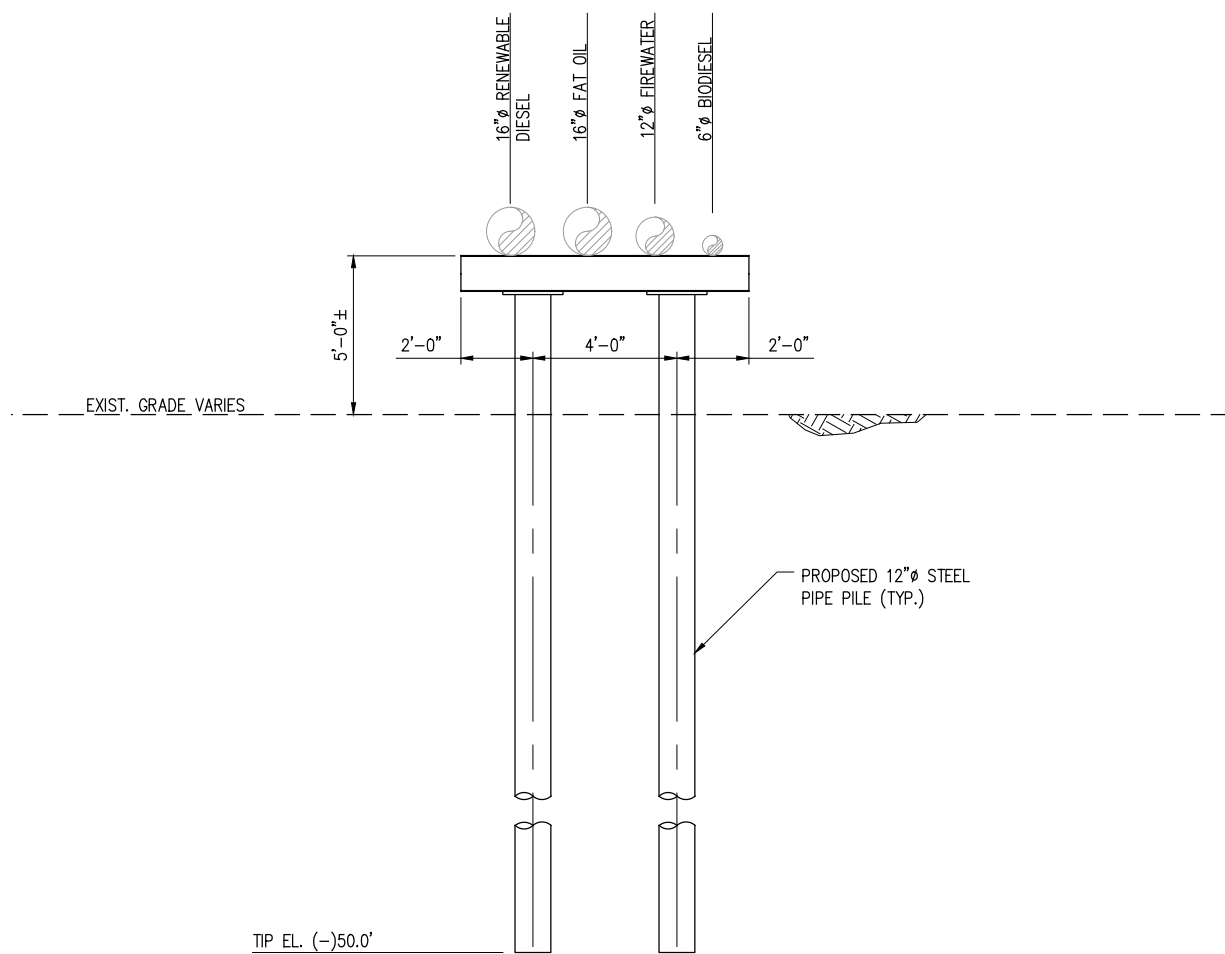
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NEW MARINE FACILITY
TYPICAL APPROACHWAY & PIPERACK
SECTION

DATE APRIL 2020
DESIGN EMG
DRAWN DLL
CHECK BNF
JOB NO 11039-2
SHEET No.
79 OF 90

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TYPICAL LANDSIDE PIPERACK SECTION

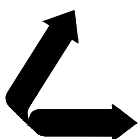
SCALE: 3/16" = 1'-0"

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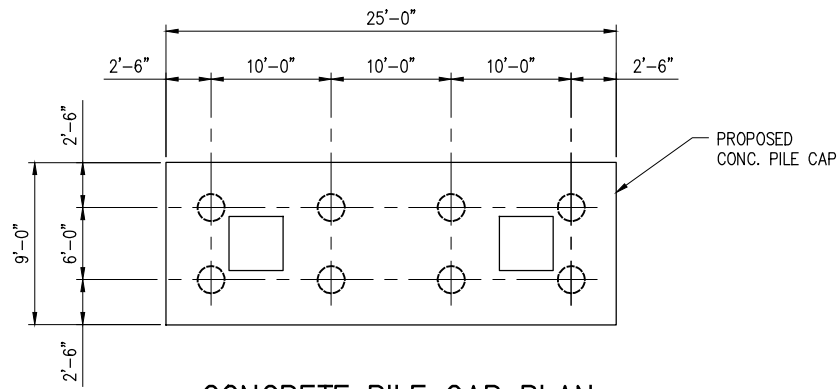
GEISMAR

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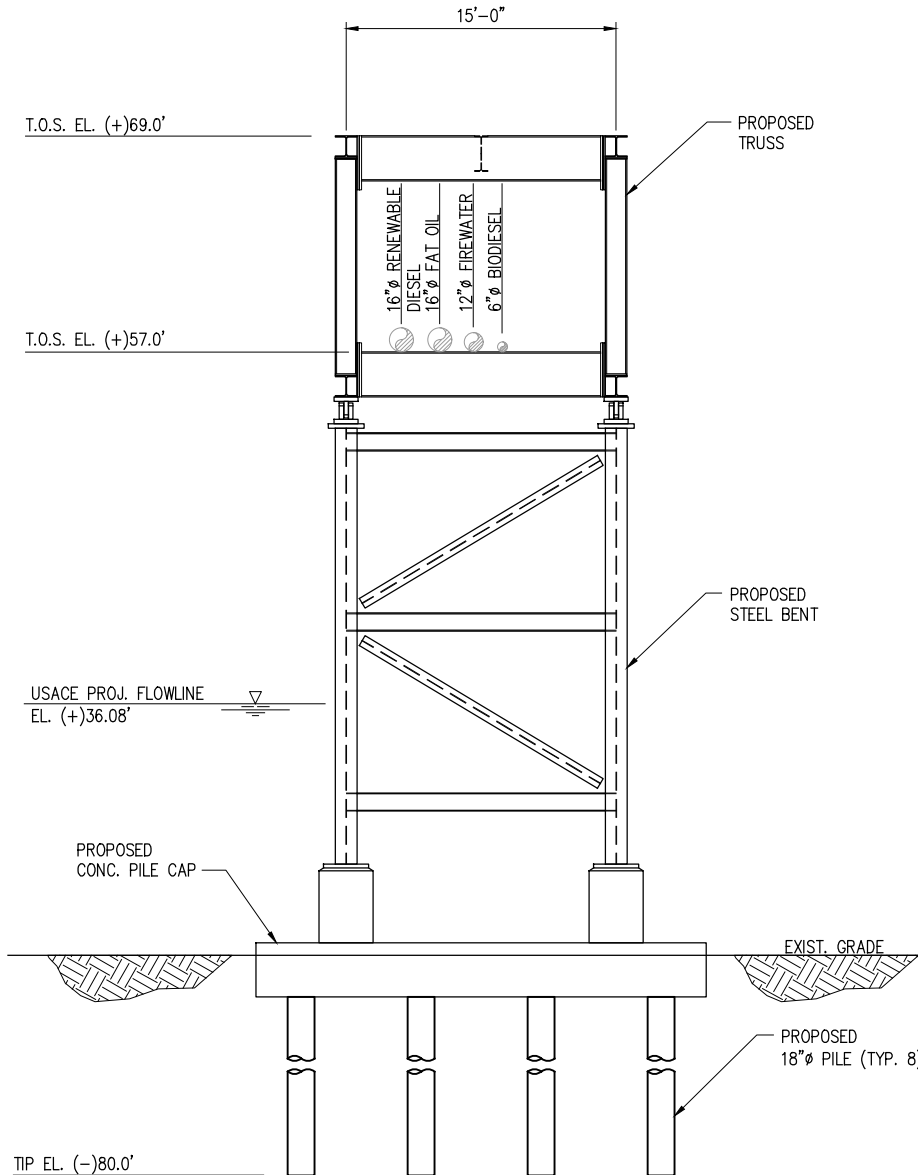
NEW MARINE FACILITY
TYPICAL LANDSIDE PIPERACK
SECTION

DATE APRIL 2020
DESIGN EMG
DRAWN DLL
CHECK BNF
JOB NO 11039-2
SHEET No.
80 OF **90**



CONCRETE PILE CAP PLAN

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



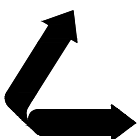
TYPICAL TRUSS SECTION

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

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LOUISIANA

NEW MARINE FACILITY
TYPICAL TRUSS SECTION

DATE APRIL 2020

DESIGN EMG

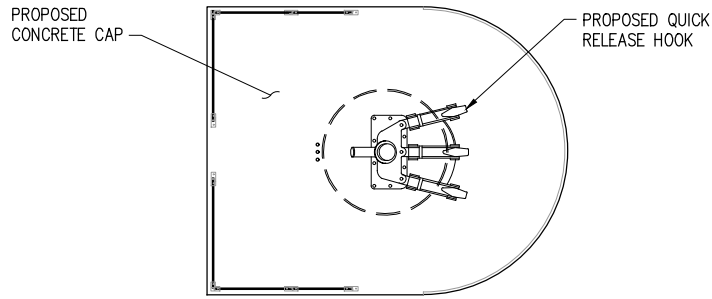
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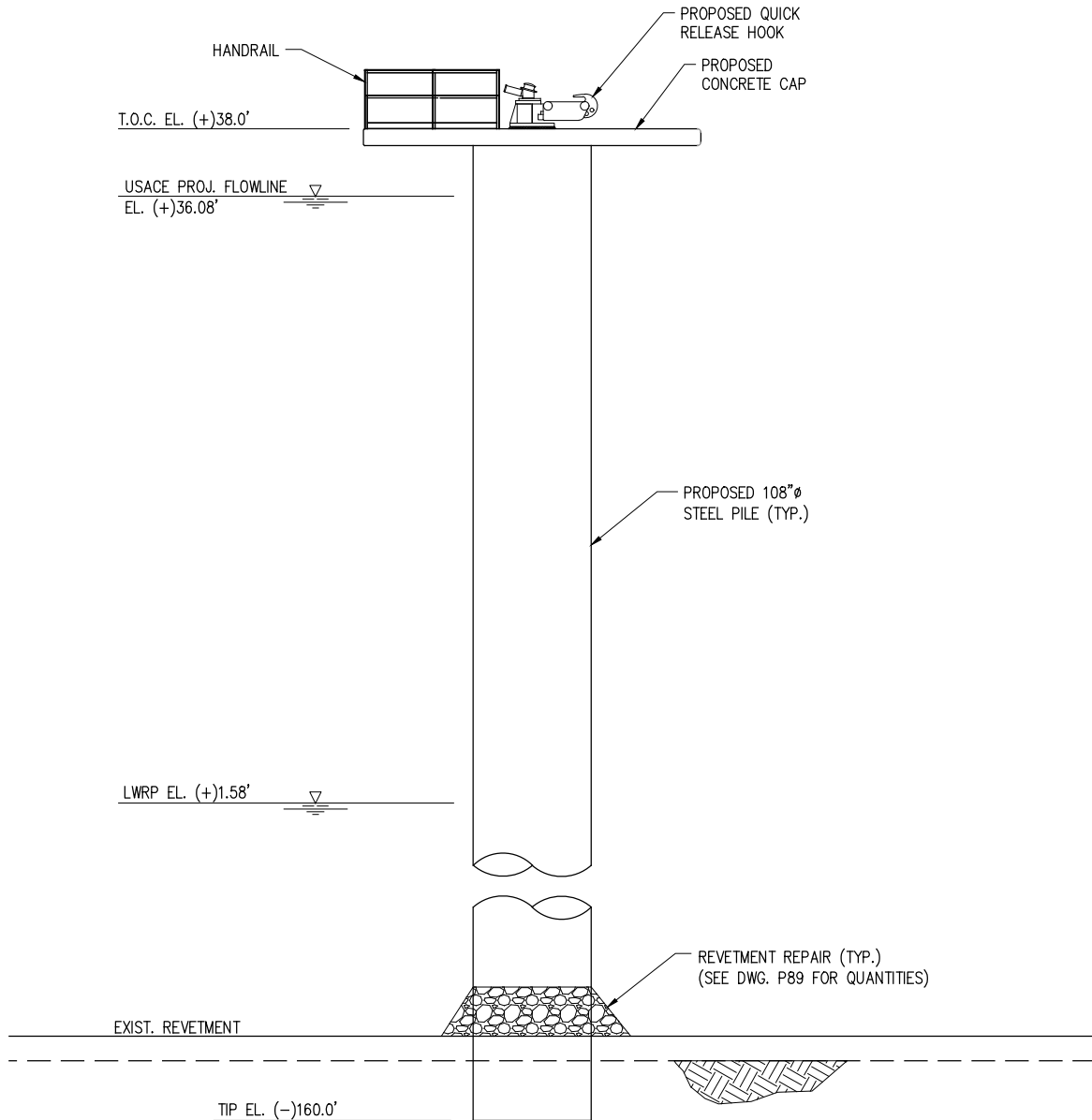
JOB NO 11039-2

SHEET No.

81 OF 90



PLAN



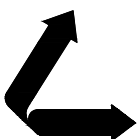
SHIP MOORING DOLPHIN ELEVATION

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

ERIC M. GAGNET P.E.
LA PE #41445

PRELIMINARY - FOR PERMIT PURPOSES ONLY

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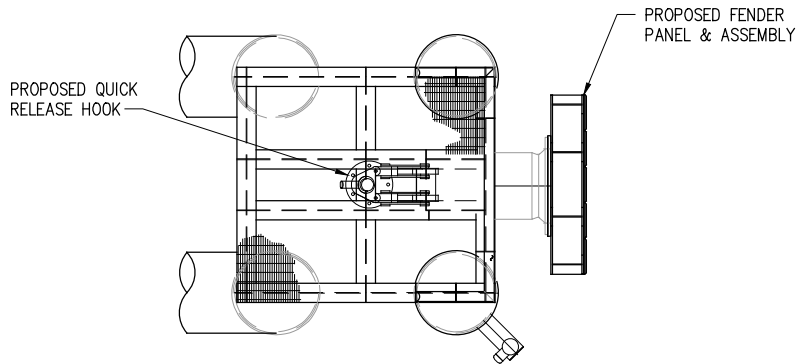
GEISMAR

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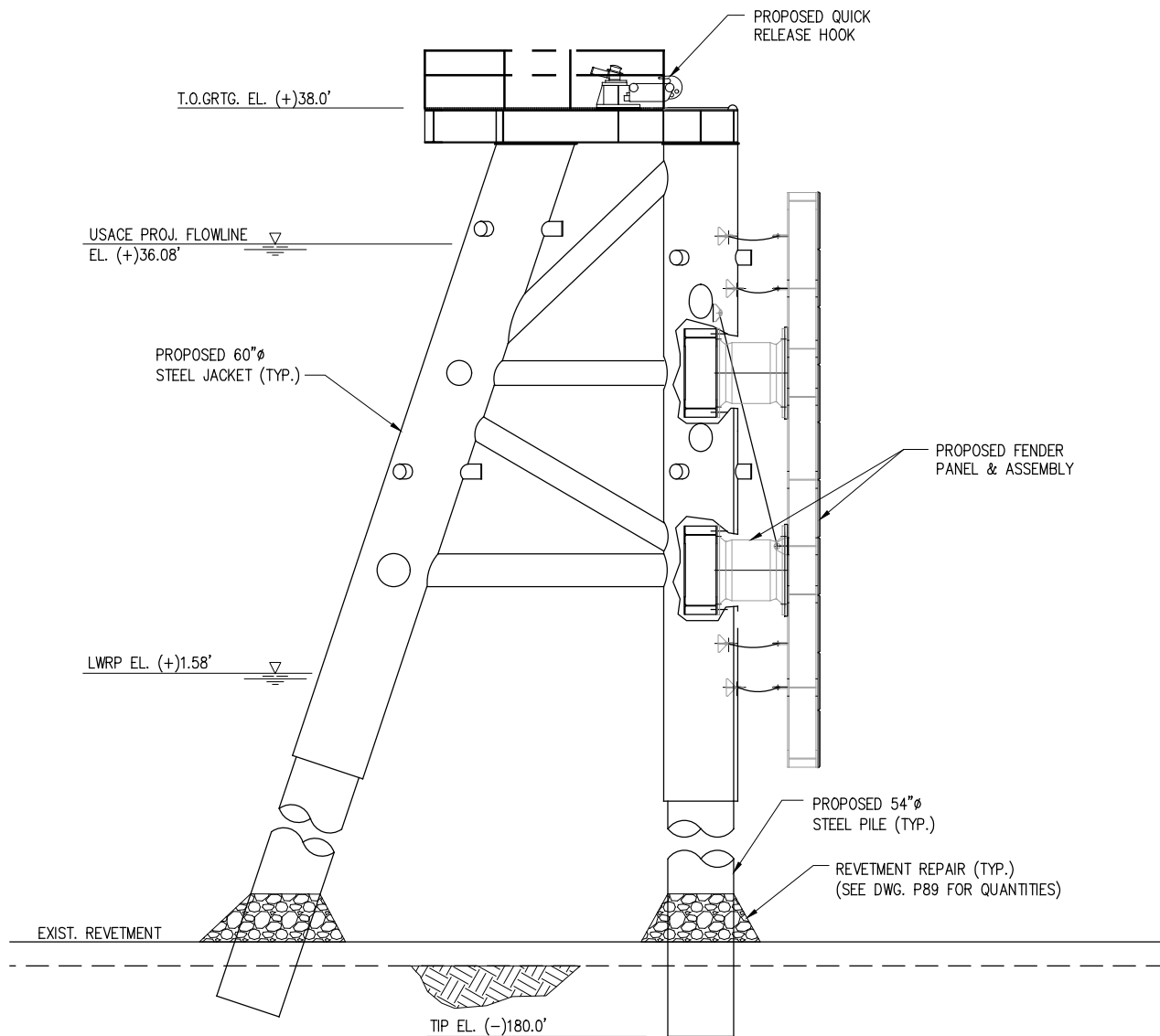
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**NEW MARINE FACILITY
SHIP MOORING DOLPHIN
PLAN & ELEVATION**

DATE APRIL 2020
DESIGN EMG
DRAWN DLL
CHECK BNF
JOB NO 11039-2
SHEET No.
82 OF 90



PLAN



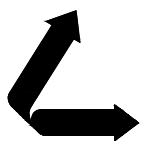
SHIP BREASTING DOLPHIN ELEVATION

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

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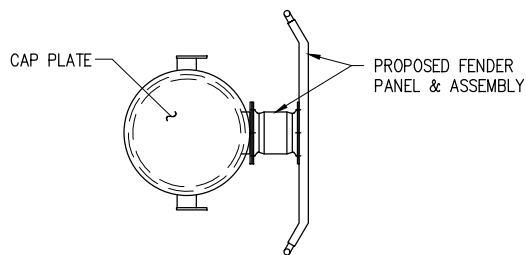
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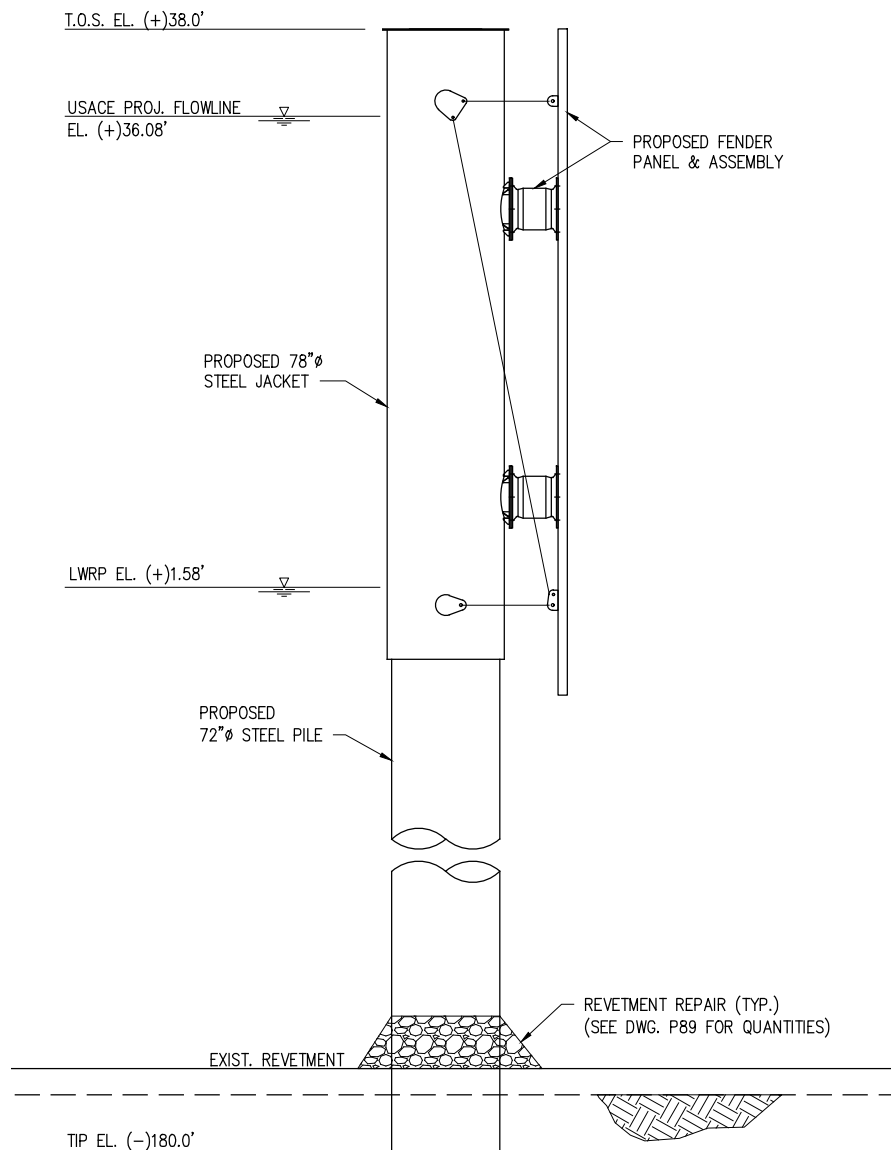
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NEW MARINE FACILITY
SHIP BREASTING DOLPHIN
PLAN & ELEVATION

DATE APRIL 2020
DESIGN EMG
DRAWN DLL
CHECK BNF
JOB NO 11039-2
SHEET No.
83 OF 90



PLAN



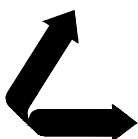
BARGE BREASTING DOLPHIN ELEVATION

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

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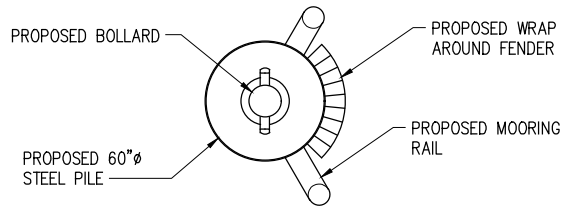
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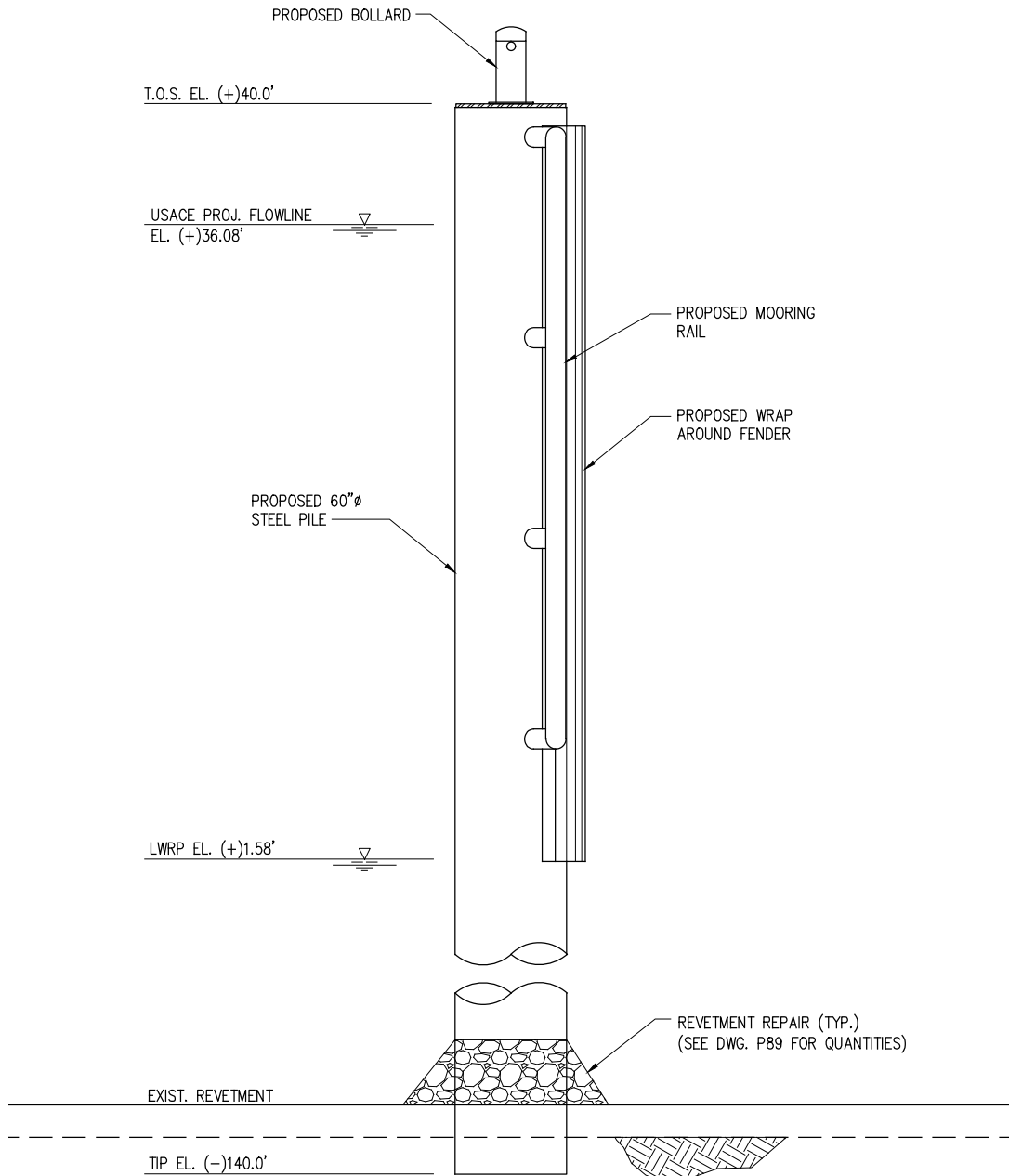
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BARGE BREASTING DOLPHIN
PLAN & ELEVATION

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DESIGN EMG
DRAWN DLL
CHECK BNF
JOB NO 11039-2
SHEET No.
84 OF 90



PLAN



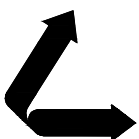
BARGE PROTECTION DOLPHIN ELEVATION

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

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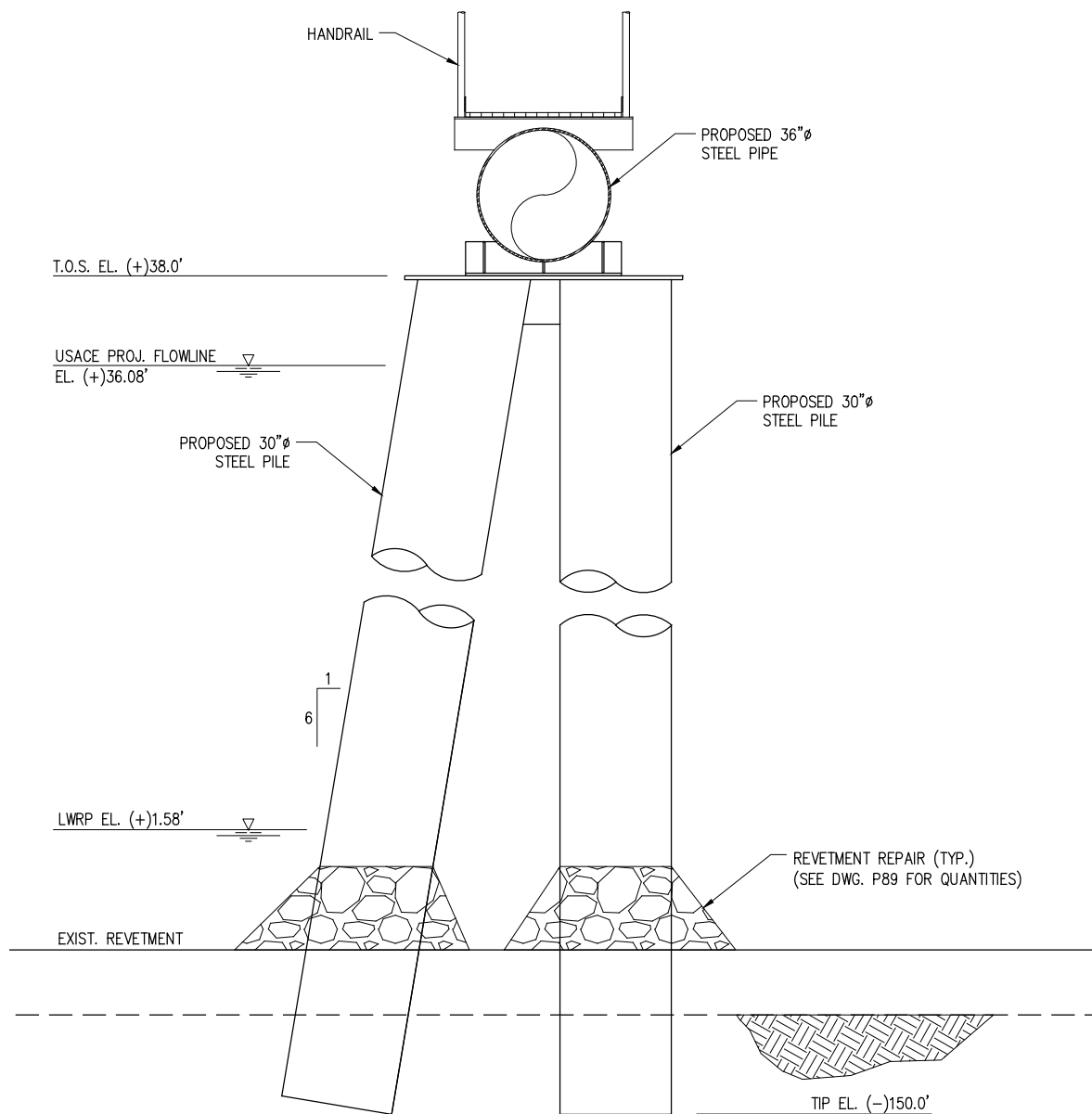
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NEW MARINE FACILITY
BARGE PROTECTION DOLPHIN
PLAN & ELEVATION

DATE APRIL 2020
DESIGN EMG
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SHEET No.
85 OF 90

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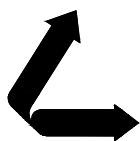
TYPICAL WALKWAY BENT ELEVATION

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

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NEW MARINE FACILITY
TYPICAL WALKWAY BENT
ELEVATION

DATE APRIL 2020

DESIGN EMG

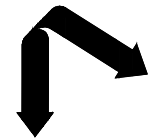
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86 OF 90



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NEW MARINE FACILITY
SURFACE CROSSINGS TYPICAL
FOR RIVER LEVEES

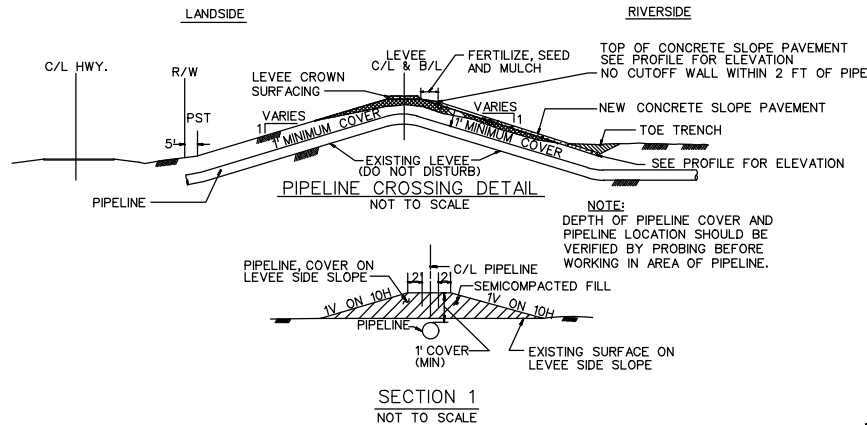
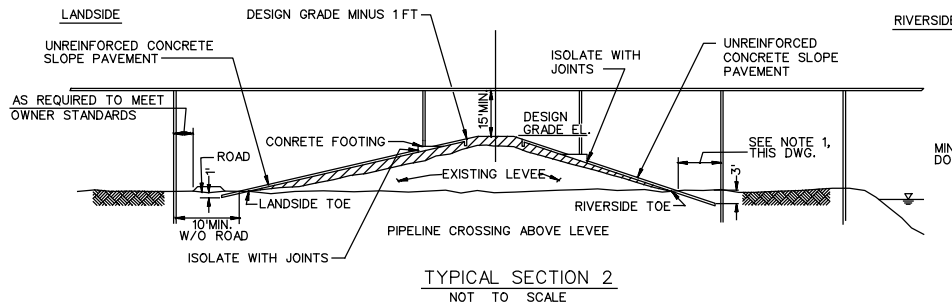
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DRAWN: DLL
CHECK: BNF
JOB NO. 11039-2
SHEET NO. 87 OF 90

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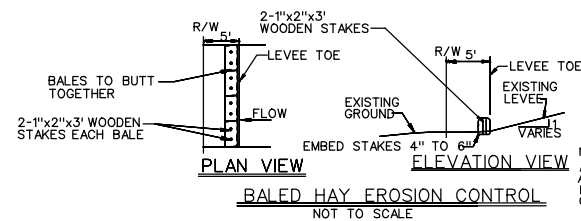
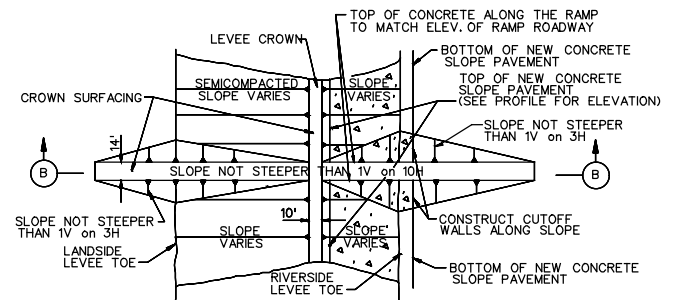
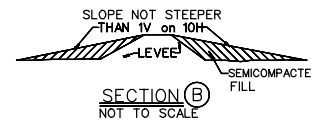
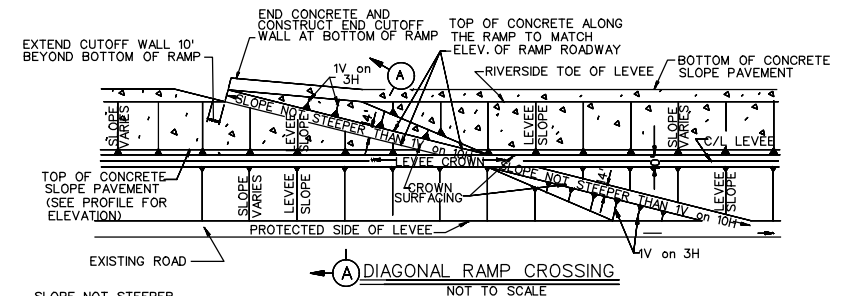
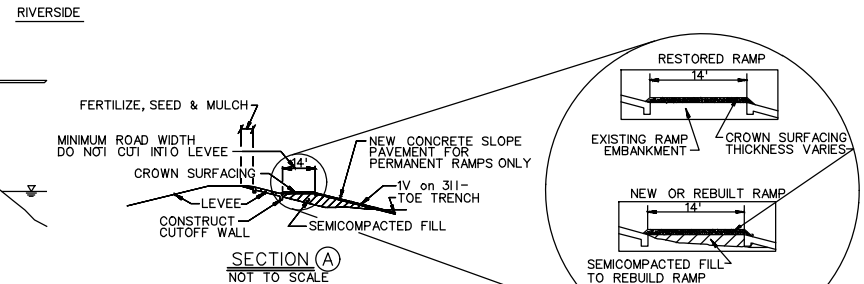
EMBANKMENT REQUIREMENTS

COMPACTED FILL: (LEVEE ACCESS ROADS AND FOOTINGS)
THE MATERIALS FOR COMPACTED FILL SHALL BE PLACED OR SPREAD IN LAYERS, THE FIRST OR BOTTOM LAYER AND THE LAST TWO LAYERS NOT MORE THAN 6 INCHES IN THICKNESS AND ALL LAYERS BETWEEN THE FIRST AND THE LAST TWO LAYERS NOT MORE THAN 12 INCHES IN THICKNESS PRIOR TO COMPACTION. THE FIRST AND EACH SUCCESSIVE LAYER OF COMPACTED FILL MATERIAL SHALL BE COMPACTED TO AT LEAST 90 PERCENT OF MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 698 (STANDARD PROCTOR DENSITY) AT A MOISTURE CONTENT WITHIN THE LIMITS OF PLUS 5 TO MINUS 3 PERCENT OF OPTIMUM MOISTURE CONTENT DETERMINED FROM THE STANDARD PROCTOR DENSITY TEST ASTM D 698.

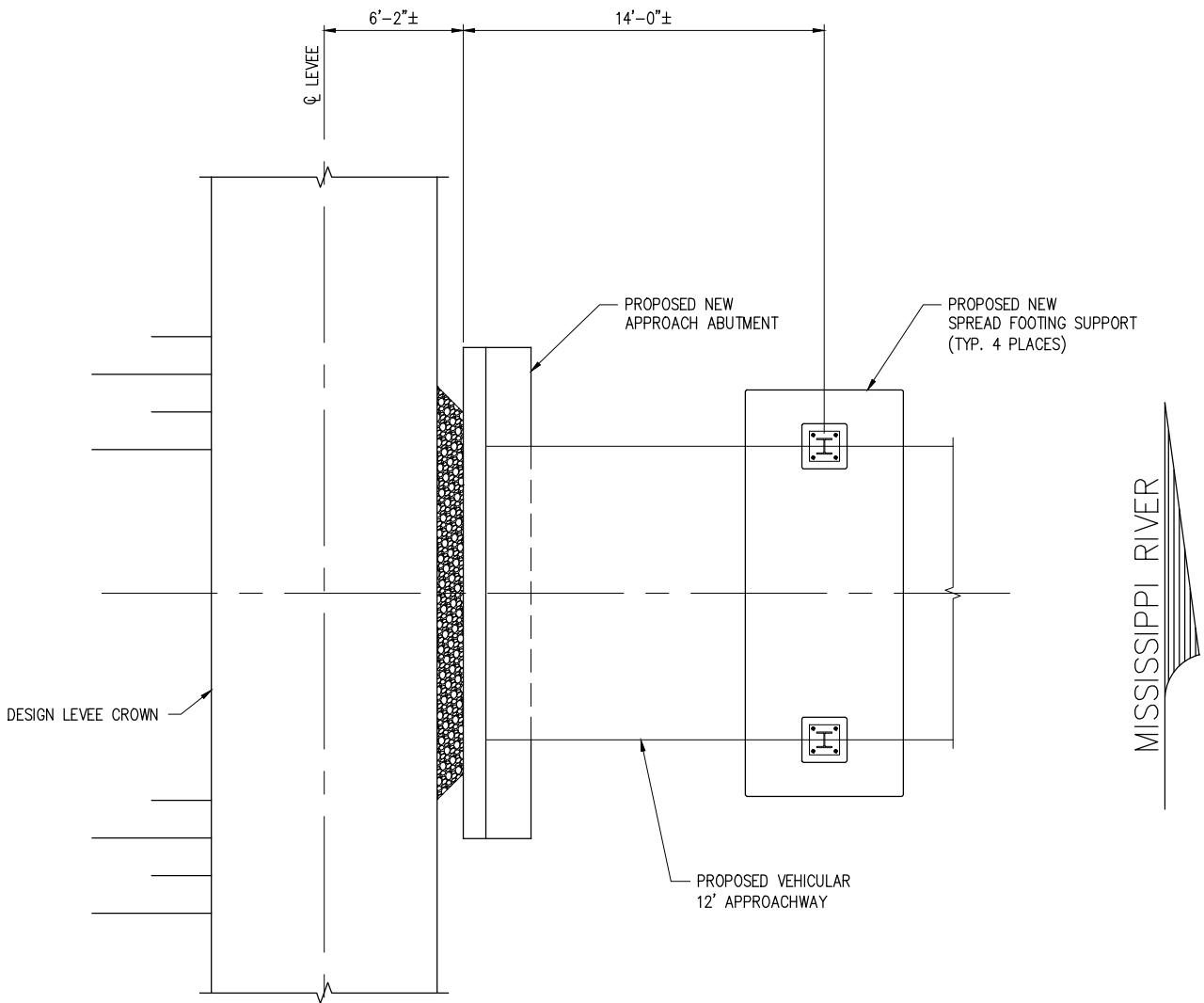
UNCOMPACTED FILL: (BERMS AND BACKFILL)
THE MATERIAL FOR UNCOMPACTED FILL SHALL BE PLACED IN APPROXIMATELY HORIZONTAL LAYERS NOT EXCEEDING 3 FEET IN THICKNESS. THE LAYERS SHALL BE UNIFORMLY SPREAD, DISTRIBUTED, AND OTHERWISE MANIPULATED DURING PLACEMENT TO SUCH AN EXTENT THAT INDIVIDUAL LOADS OF MATERIAL DEPOSITED ON THE FILL WILL NOT REMAIN INTACT, AND LARGE, OPEN VOIDS IN THE FILL WILL BE ELIMINATED.

NOTES:

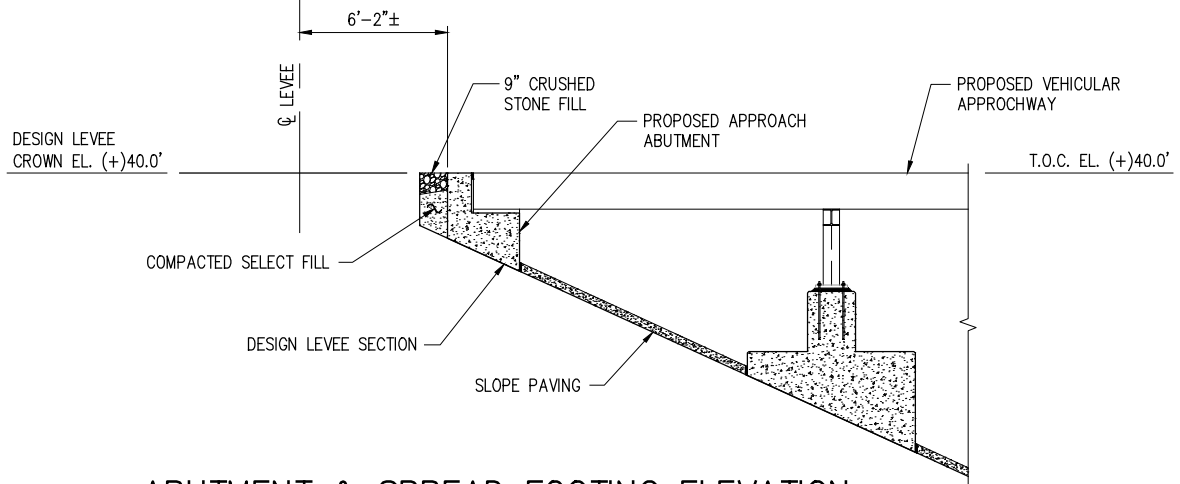
1. A 10' MIN. DISTANCE (OR AS OTHERWISE REQUIRED) BETWEEN THE LEVEE TOE AND THE PIPELINE SUPPORT IS REQUIRED TO AVOID PENETRATION OF CONCRETE SLOPE PAVEMENT.
2. CONCRETE SLOPE PAVEMENT IS REQUIRED WHEN SPREAD FOOTINGS REST ON LEVEE SLOPE. PAVEMENT MUST EXTEND 5' EACH SIDE OF FOOTINGS.
3. IN ABSENCE OF FOOTING ON LEVEE, LANDSIDE SLOPE PAVING WILL NOT BE REQUIRED. RIVERSIDE SLOPE PAVING WILL BE REQUIRED WHEN NECESSARY FOR EROSION CONTROL.
4. SMOOTH TRANSITIONS SHALL BE CONSTRUCTED BETWEEN THE LEVEE ENLARGEMENT AND THE EXISTING LEVEE.
5. ALL FRESH FILLS SHALL BE SOODED OR FERTILIZED AND SEEDDED AND SHALL BE MAINTAINED UNTIL A HEALTHY GROWTH IS OBTAINED.
6. THE CROWN OF THE ENLARGED LEVEE AND THE LEVEE ACCESS RAMPS SHALL BE SURFACED WITH CRUSHED STONE (7" IN THICKNESS (LOOSE MEASUREMENT) FOR EXISTING CROWN AND RAMPS AND 9" FOR NEW CONSTRUCTION) FOR THE FULL WIDTH (10' MIN.) AND LENGTH OF THE ENLARGED LEVEE OR RAMP. THE CRUSHED STONE SURFACING SHALL MEET THE REQUIREMENTS OF LSSRB SECTION 1003.04 (a), 2000 EDITION.
7. FILL MATERIAL USED IN CONSTRUCTION OF THE LEVEE ENLARGEMENT, RAMPS, PIPE COVER AND BACKFILL OF EXCAVATION SHALL BE IMPERVIOUS EARTH FILL.
8. A PIPELINE MARKER SHALL BE PLACED AND MAINTAINED AT EACH LEVEE TOE IN LINE WITH THE PIPELINE CROSSING AND INDICATE OWNER, SIZE, NUMBER OF LINES, PRODUCT AND ADDRESSES FOR CONTACTING OWNER.



NOTE:
AFTER REMOVAL OF HAYBALES, FERTILIZE, SEED AND MULCH THE AREA OCCUPIED BY THE HAYBALES AND AREAS DISTURBED AS A RESULT OF REMOVING THE HAYBALES.



PLAN



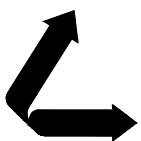
ABUTMENT & SPREAD FOOTING ELEVATION

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

ERIC M. GAGNET P.E.
LA PE #41445

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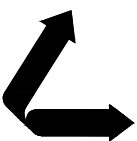
NEW MARINE FACILITY
APPROACHWAY, ABUTMENT & SPREAD FOOTING
PLAN & ELEVATION

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JOB NO 11039-2
SHEET No.
88 OF **90**

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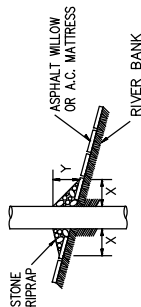
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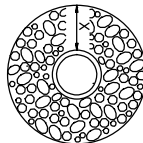
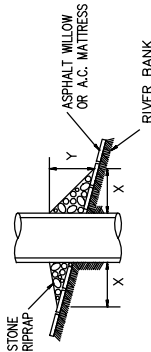
NEW MARINE FACILITY
REVELMENT REPAIR

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JOB NO 11039-2
SHEET No.
89 OF **90**

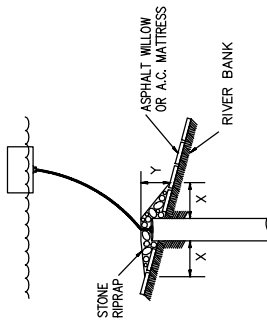
PILE



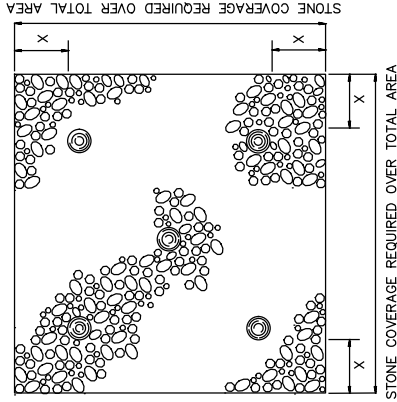
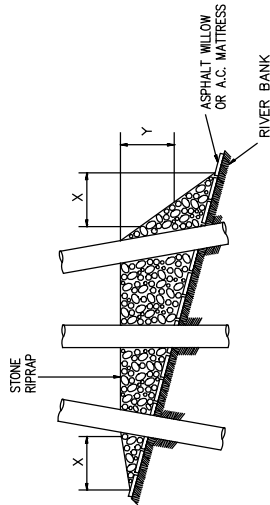
CAISSON



SPUD PILE
(BUOY AND ANCHOR CHAIN)



PILE CLUSTER



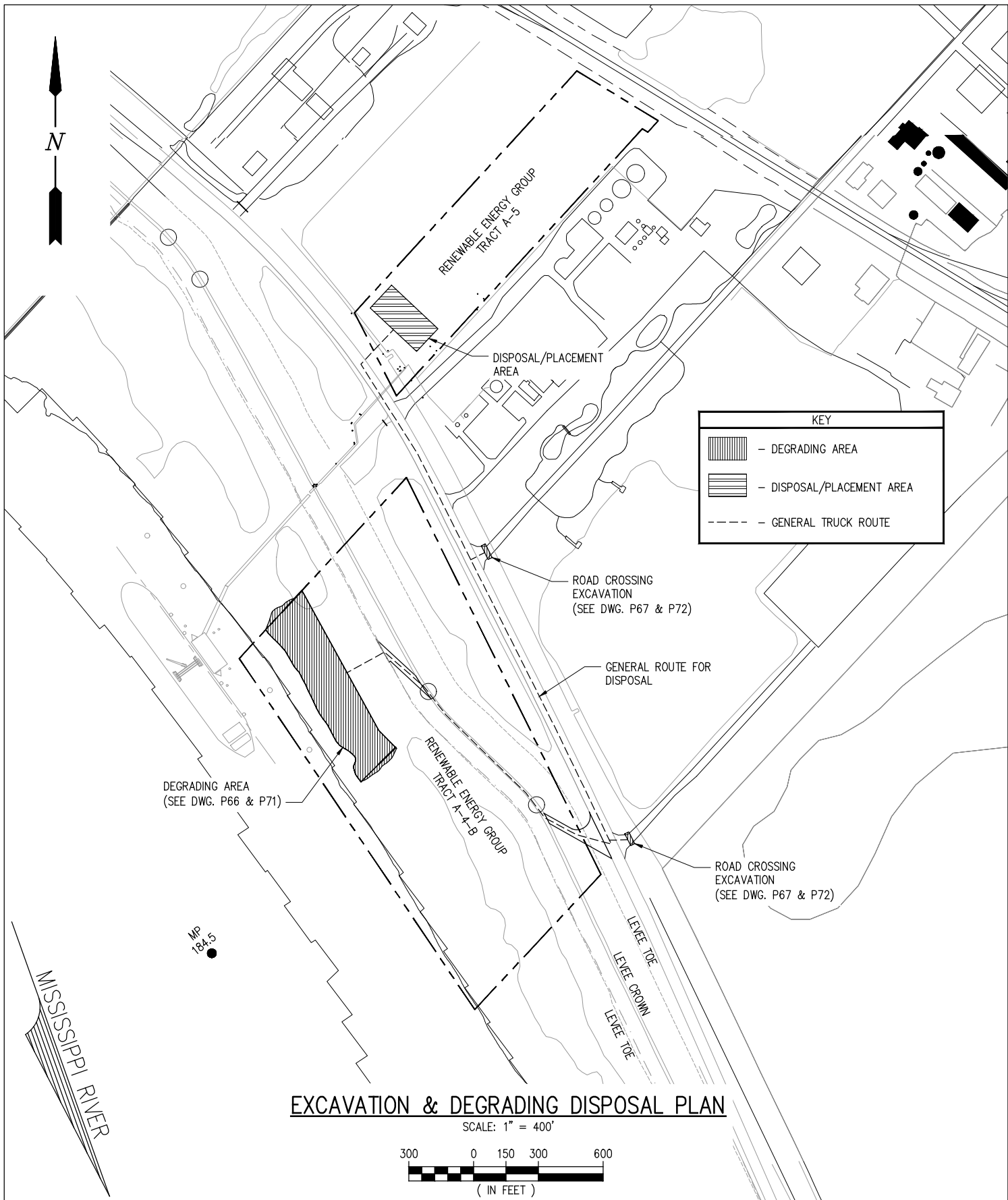
TOTAL AREA OF STONE RIPRAP = APPROX. 0.31 ACRES
TOTAL VOLUME OF STONE RIPRAP = 3500 CU. YDS.

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 REVELMENT 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 REVELMENT DAMAGE.

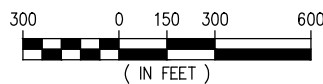
DEPTH OF WATER IN FEET AT POINT OF PENETRATION AT TIME OF STONE PLACEMENT	DIMENSIONS IN FEET FOR PROTECTION AREA REQUIRED									
	PILE		CAISSON		SPUD PILE (BUOY AND ANCHOR CHAIN)		PILE CLUSTER			
	X	Y	X	Y	X	Y	X	Y		
1' - 10'	3	1.5	5	2			3	1		
11' - 40'	5	2	8	3	7	3	6	2		
41' - 60'	8	3	12	4	12	4	10	3		

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EXCAVATION & DEGRADING DISPOSAL PLAN

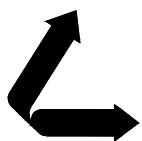
SCALE: 1" = 400'



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LA PE #41445

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**NEW MARINE FACILITY
EXCAVATION & DEGRADING
DISPOSAL PLAN**

DATE APRIL 2020
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JOB NO 11039-2
SHEET No.
90 OF 90