

# JOINT PUBLIC NOTICE

August 17, 2015

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

State of Louisiana  
Department of Environmental Quality  
Attn: Water Quality Certification Sec.  
Post Office Box 4313  
Baton Rouge, Louisiana 70821-4313

Project Manager: James W. Little, Jr.  
(225) 342-3099 / fax: (225) 342-9439  
James.little@usace.army.mil  
Permit Application Number:  
MVN-2014-01380-WII

Project Manager:  
Elizabeth Johnson  
(225) 219-3225 / fax: (225) 219-3156  
WQC Application Number:  
WQC 150810-02

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).

The application has also been mailed to the Louisiana Department of Environmental Quality, for a Water Quality Certification (WQC) in accordance with statutory authority contained in Louisiana Revised Statute 30:2074 A(3), and provisions of Section 401 of the Clean Water Act (P.L. 95-17).

## **CONSTRUCT A NEW LNG FACILITY IN CALCASIEU PARISH**

**NAME OF APPLICANT:** Magnolia LNG, LLC, c/o Ecology and Environment, Inc., Attn: Mr. Will Farrar, 2900 Westfork Drive, Suite 401, Baton Rouge, LA 70827.

**LOCATION OF WORK:** In Calcasieu Parish, North 30.105639, West -93.298333, located off of the Industrial Canal, in Lake Charles, Louisiana, as shown on the attached vicinity map. (Hydrologic Unit Code 08080206, Calcasieu River Basin)

**CHARACTER OF WORK:** Clear, grade, fill and/or excavate and develop a tract, totaling approximately 115 acres, in order to construct the proposed LNG facility, roadways, support facilities and appurtenant structures. Approximately 832,000 cubic yards of sediment will be dredged from a 16.2 acre area required for the recessed ship berthing on the south shore of the Industrial Canal. The dredged area footprint will have be approximately 1,900 feet long by 350 feet wide and 44 feet in depth. A hydraulic cutterhead dredge will be used and the material transported via 2.5 miles of temporary dredge pipeline along the edge of the Calcasieu River to a 307 acre beneficial use disposal site north of Calcasieu Lake. Approximately 204,200 cubic yards of upland soil would be excavated and relocated onsite, 73,000 cubic yards from the berthing area and 131,200 cubic yards from the remainder of the site. Approximately 7.02 acres of jurisdictional wetlands and 313.4 acres of Section 10 & 404 waters would be impacted by project implementation. The applicant has proposed that beneficial use of their dredge material to create 282.0 acres of emergent wetlands, will offset their proposed project impacts.

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

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, pre-historical, 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.

Based on the South Louisiana **Standard Local Operating Procedure for Endangered Species (SLOPES)**, as signed on October 22, 2014, between the U.S. Army Corps of Engineers, New Orleans and the U.S. Fish and Wildlife Service, it has been determined that the 313.4 acre dredge/spoil placement footprint is located in waters known to be utilized by the West Indian Manatee (*Trichechus manatus*) and determined that the activity is not likely to adversely affect the species. If this permit is issued, the permittee will be required to follow the SLOPES Special Conditions for the West Indian Manatee.

This notice initiates the Essential Fish Habitat (EFH) consultation requirements of the Magnuson-Stevens Fishery Conservation and Management Act. The applicant's proposal may result in the destruction or alteration of **313.4** 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, before a permit is issued.

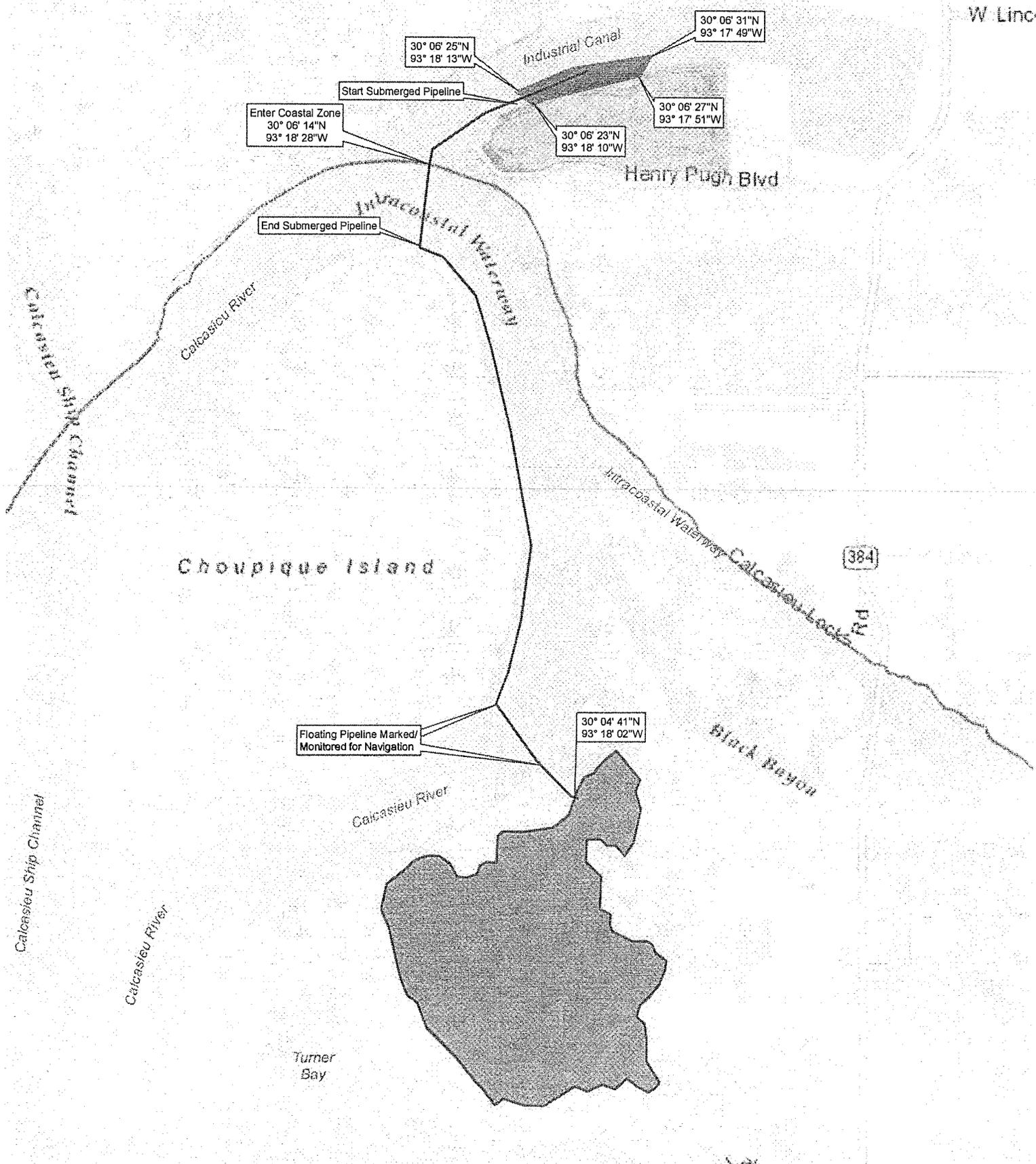
Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for public hearings shall state, with particularity, the reasons for holding a public hearing.

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.

Darrell S. Barbara  
Chief, Western Evaluation Section  
Regulatory Branch

Enclosure

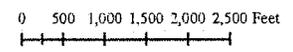


### Project Site Location Map

Magnolia LNG  
Calcasieu Parish, Louisiana

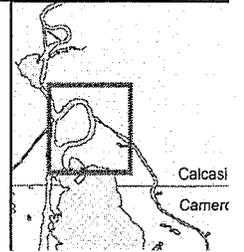
#### Legend

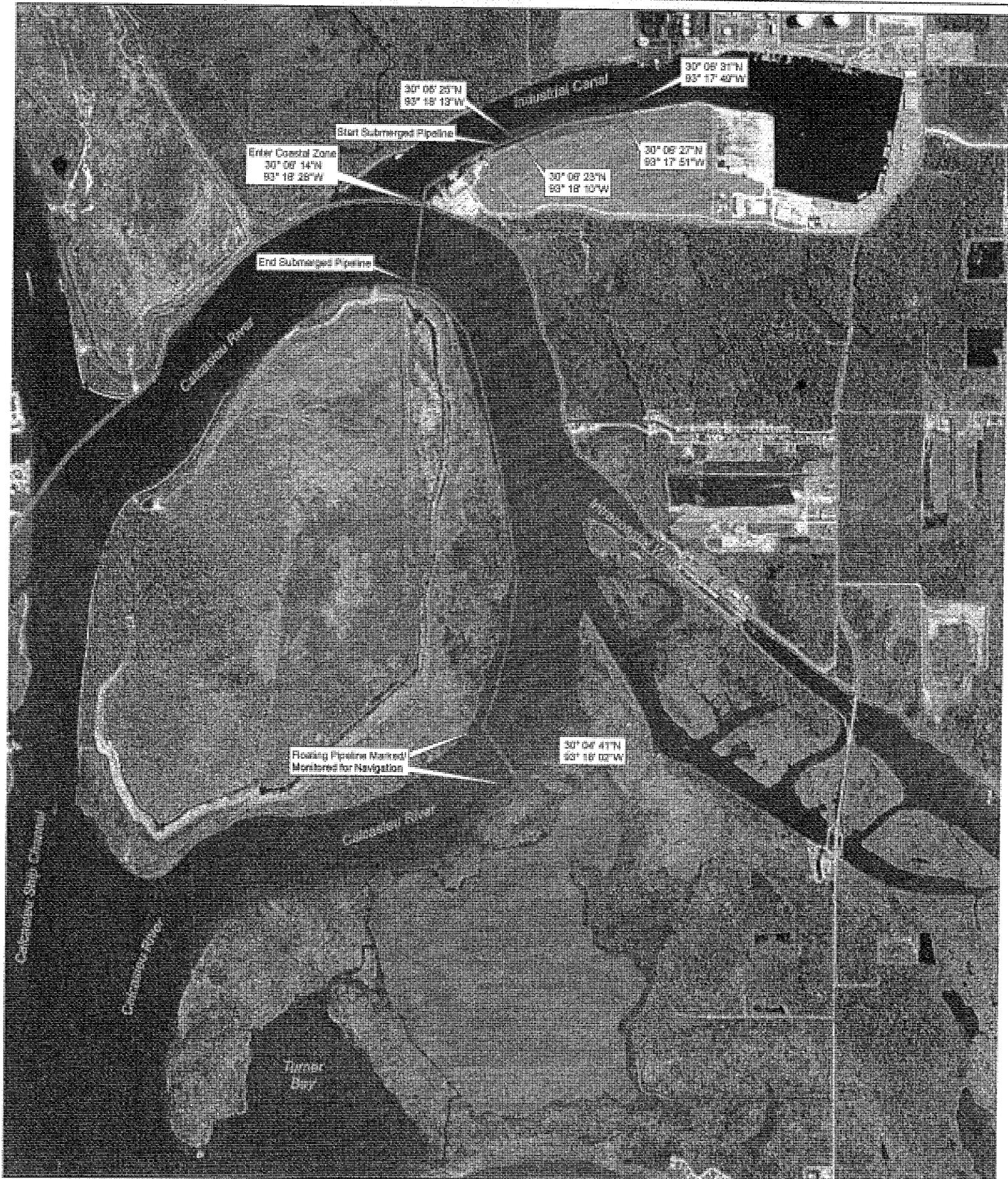
-  LNG Facility Workspace
-  Dredge Area
-  Dredge Pipeline
-  Coastal Zone Boundary
-  Retaining Dike
-  Dredge Material Placement Area



1:27,280

Imagery Sources: USGS, ESRI, NGS, et al.  
Date: 5/8/2015





**Project Site  
Aerial Map**

Magnolia LNG  
Calcasieu Parish, Louisiana

**Legend**

-  LNG Facility Workspace
-  Dredge Area
-  Dredge Pipeline
-  Coastal Zone Boundary
-  Retaining Dike
-  Dredge Material Placement Area

0 500 1,000 1,500 2,000 2,500 Feet



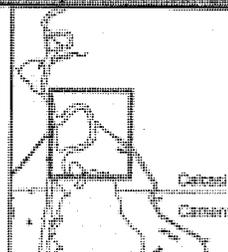
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Imagery Source: NAIP 2013

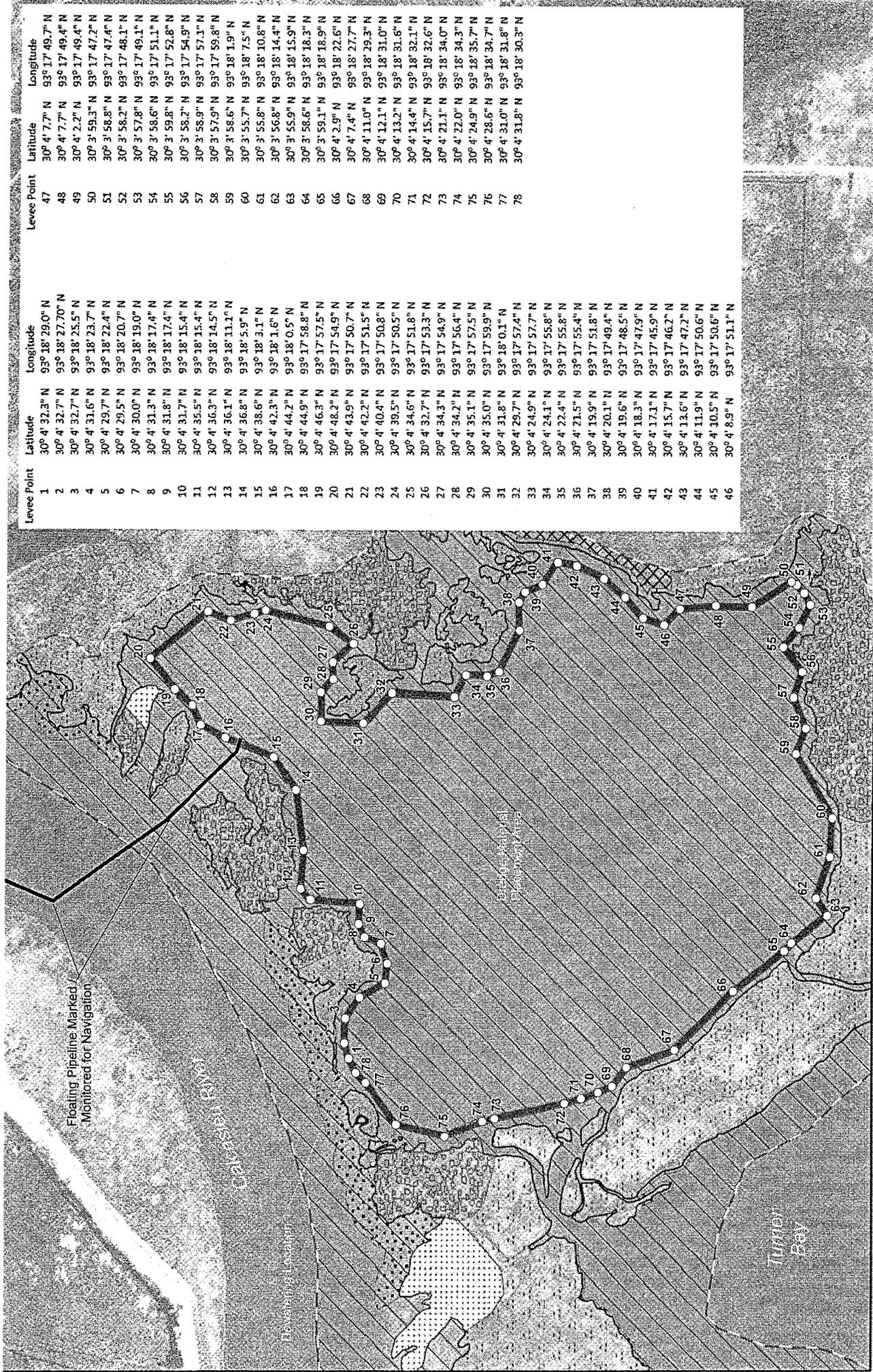
Date: 5/8/2015



**MAGNOLIA  
LNG**



Calcasieu  
Cameron



Levee Point	Latitude	Longitude	Levee Point	Latitude	Longitude
1	30° 4' 32.3" N	93° 18' 29.0" N	47	30° 4' 7.7" N	93° 17' 49.7" N
2	30° 4' 32.7" N	93° 18' 27.0" N	48	30° 4' 7.7" N	93° 17' 49.4" N
3	30° 4' 32.7" N	93° 18' 25.5" N	49	30° 4' 2.2" N	93° 17' 49.4" N
4	30° 4' 31.6" N	93° 18' 23.7" N	50	30° 3' 59.3" N	93° 17' 47.2" N
5	30° 4' 29.7" N	93° 18' 22.4" N	51	30° 3' 58.8" N	93° 17' 47.4" N
6	30° 4' 29.5" N	93° 18' 20.7" N	52	30° 3' 58.2" N	93° 17' 48.1" N
7	30° 4' 30.0" N	93° 18' 19.0" N	53	30° 3' 57.8" N	93° 17' 49.1" N
8	30° 4' 31.3" N	93° 18' 17.4" N	54	30° 3' 58.6" N	93° 17' 51.1" N
9	30° 4' 31.8" N	93° 18' 15.4" N	55	30° 3' 59.8" N	93° 17' 52.8" N
10	30° 4' 31.7" N	93° 18' 15.4" N	56	30° 3' 58.2" N	93° 17' 54.9" N
11	30° 4' 35.5" N	93° 18' 15.4" N	57	30° 3' 58.9" N	93° 17' 57.1" N
12	30° 4' 36.3" N	93° 18' 14.5" N	58	30° 3' 57.9" N	93° 17' 59.8" N
13	30° 4' 36.1" N	93° 18' 11.1" N	59	30° 3' 58.6" N	93° 18' 1.9" N
14	30° 4' 36.8" N	93° 18' 5.9" N	60	30° 3' 55.7" N	93° 18' 7.5" N
15	30° 4' 38.6" N	93° 18' 3.1" N	61	30° 3' 55.8" N	93° 18' 10.8" N
16	30° 4' 42.3" N	93° 18' 1.6" N	62	30° 3' 56.8" N	93° 18' 14.4" N
17	30° 4' 44.2" N	93° 18' 0.5" N	63	30° 3' 55.9" N	93° 18' 15.9" N
18	30° 4' 44.9" N	93° 17' 58.8" N	64	30° 3' 55.6" N	93° 18' 18.3" N
19	30° 4' 46.3" N	93° 17' 57.5" N	65	30° 3' 59.1" N	93° 18' 18.9" N
20	30° 4' 48.2" N	93° 17' 54.9" N	66	30° 4' 2.9" N	93° 18' 22.6" N
21	30° 4' 43.9" N	93° 17' 50.7" N	67	30° 4' 7.4" N	93° 18' 27.7" N
22	30° 4' 42.2" N	93° 17' 51.5" N	68	30° 4' 11.0" N	93° 18' 29.3" N
23	30° 4' 40.4" N	93° 17' 50.8" N	69	30° 4' 12.1" N	93° 18' 31.0" N
24	30° 4' 39.5" N	93° 17' 50.5" N	70	30° 4' 13.2" N	93° 18' 32.1" N
25	30° 4' 34.6" N	93° 17' 51.8" N	71	30° 4' 15.7" N	93° 18' 32.6" N
26	30° 4' 32.7" N	93° 17' 53.3" N	72	30° 4' 21.1" N	93° 18' 34.0" N
27	30° 4' 34.3" N	93° 17' 54.9" N	73	30° 4' 22.0" N	93° 18' 34.3" N
28	30° 4' 34.2" N	93° 17' 56.4" N	74	30° 4' 24.9" N	93° 18' 35.7" N
29	30° 4' 35.1" N	93° 17' 57.5" N	75	30° 4' 28.6" N	93° 18' 34.7" N
30	30° 4' 35.0" N	93° 17' 59.9" N	76	30° 4' 31.0" N	93° 18' 31.8" N
31	30° 4' 31.8" N	93° 18' 0.1" N	77	30° 4' 31.8" N	93° 18' 30.3" N
32	30° 4' 29.7" N	93° 17' 57.4" N	78		
33	30° 4' 24.9" N	93° 17' 57.7" N			
34	30° 4' 24.1" N	93° 17' 55.8" N			
35	30° 4' 22.4" N	93° 17' 55.8" N			
36	30° 4' 21.5" N	93° 17' 55.4" N			
37	30° 4' 19.9" N	93° 17' 51.8" N			
38	30° 4' 20.1" N	93° 17' 49.4" N			
39	30° 4' 19.6" N	93° 17' 48.5" N			
40	30° 4' 18.3" N	93° 17' 47.9" N			
41	30° 4' 17.1" N	93° 17' 45.9" N			
42	30° 4' 15.7" N	93° 17' 46.2" N			
43	30° 4' 13.6" N	93° 17' 47.2" N			
44	30° 4' 11.9" N	93° 17' 50.6" N			
45	30° 4' 10.5" N	93° 17' 50.6" N			
46	30° 4' 8.9" N	93° 17' 51.1" N			

**Beneficial Use of Dredge Material**  
**TB Dredge Material Placement Area**

Magnolia LNG  
Calcasieu Parish, Louisiana

Date: 5/11/2015

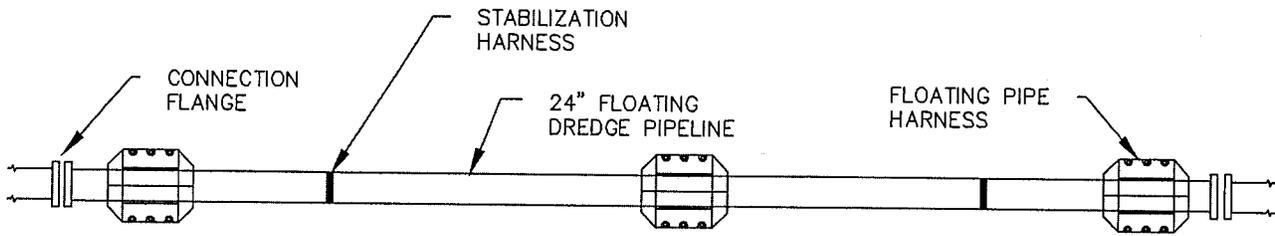
Retaining Dike PI  
Dewatering Location  
Temporary Dredge Pipeline  
Retaining Dike (~60ft wide)  
Survey Extent

Oyster Reef  
Brackish Marsh  
Intermediate Marsh  
Live Oak Forest  
Scrub Shrub Marsh  
Unconsolidated Water Bottoms

0 200 400 600 800 1,000 Feet

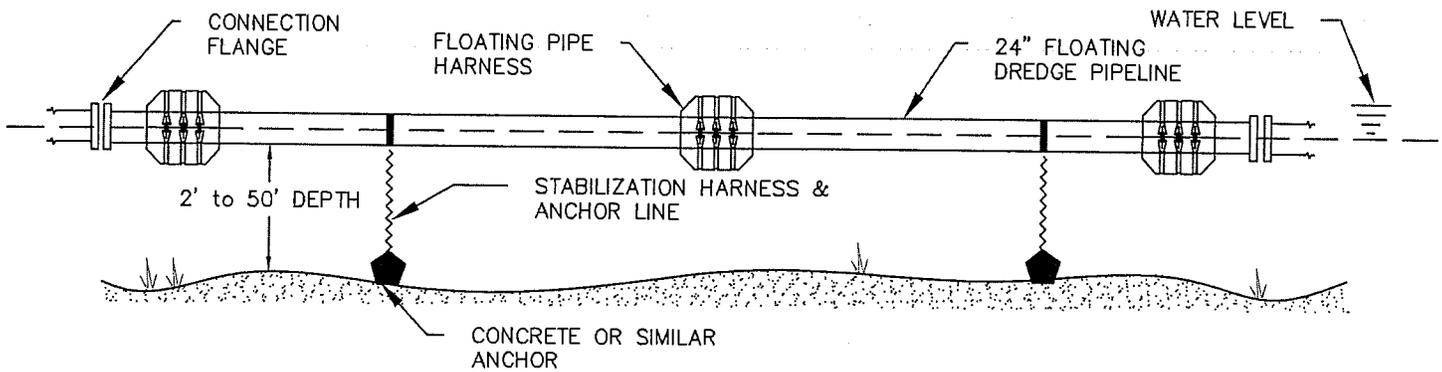
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Imagery Source: NAIP 2013



PLAN VIEW

N.T.S.



PROFILE VIEW

N.T.S.

NOTES:

1. DREDGE PIPE WILL BE USED IN DEPTHS OF 2 TO 50 FEET. SLACK IN STABILIZING ANCHORS WILL BE KEPT TO A MINIMUM TO PREVENT DRIFT .
2. PIPE SECTIONS CAN BE OPENED AT FLANGES TO ALLOW FOR VESSEL TRAFFIC. DREDGE PIPE WILL BE FLUSHED PRIOR TO OPENING TO MINIMIZE TURBIDITY RELEASED FROM PIPE.

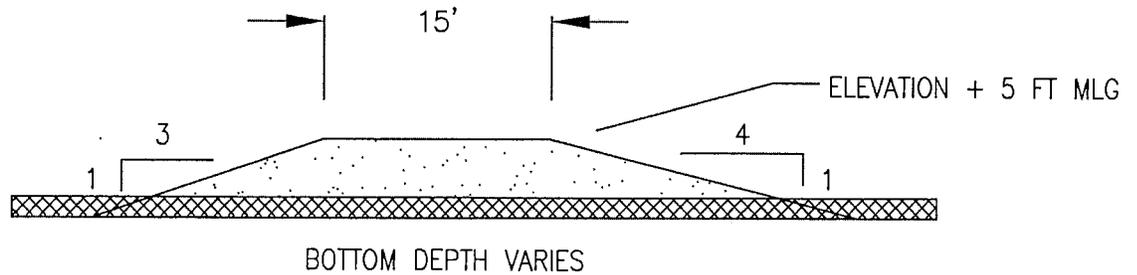


TYPICAL FLOATING DREDGE PIPE SECTION DETAIL  
1 OF 1

REV.#	DESCRIPTION	BY	DATE	APP.	PRJ.#	EE-004690-0001-01	APPR:	V. GEE	DATE:	04/14/2014	
					FILE.#	MAGNOLIA LNG.dwg	ENG:		P.E.	SCALE:	NTS

INTERIOR

EXTERIOR



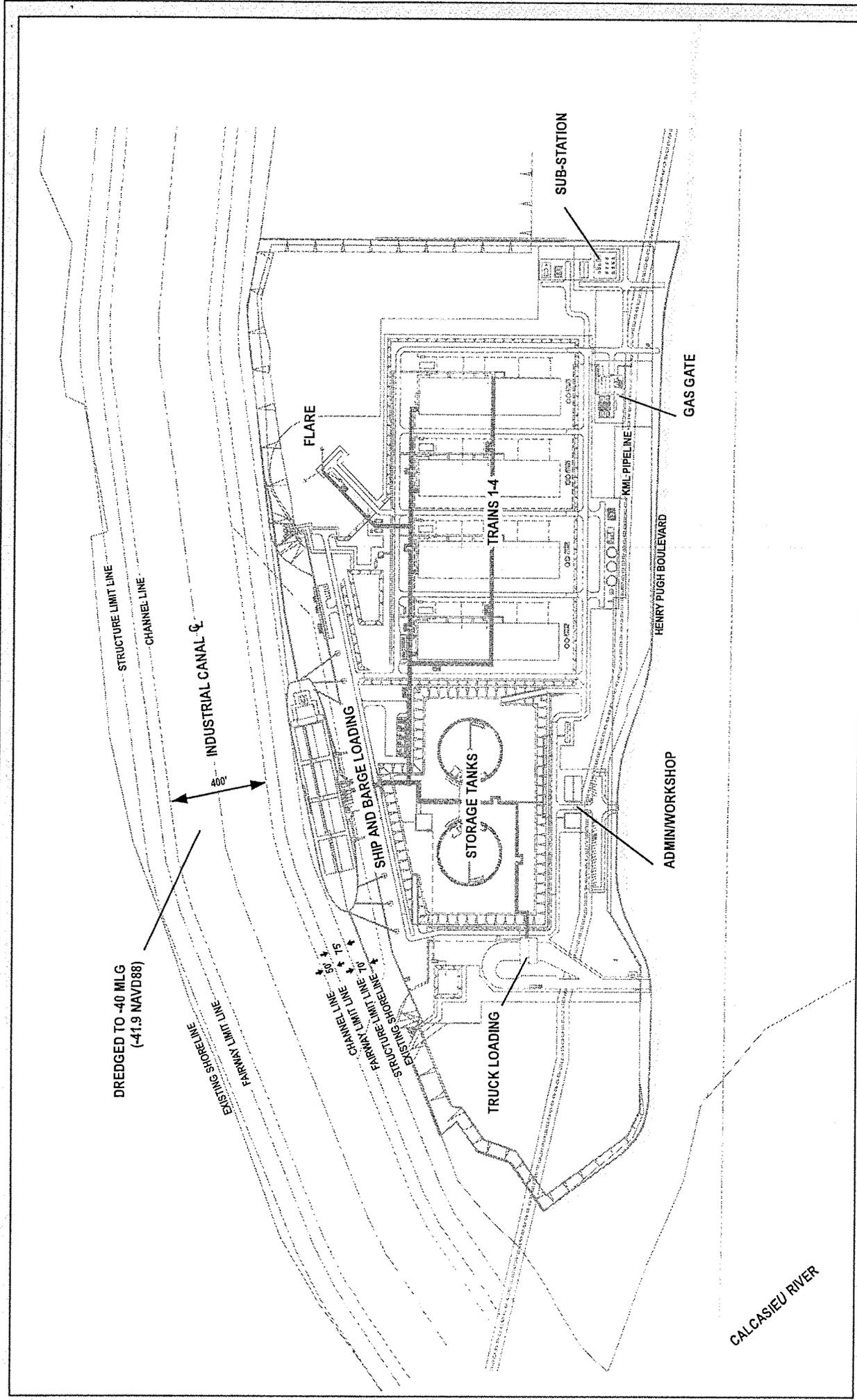
NOTES:

1. BORROW MATERIAL FOR DIKE CONSTRUCTION CAN BE OBTAINED FROM ADJACENT BUDM SITE INTERIOR WHERE SUITABLE.
2. ALL AREAS WHERE NO ADJACENT BORROW IS UNAVAILABLE, DIKE CONSTRUCTION MATERIALS WILL HAVE TO BE HAULED FROM THE NEAREST AVAILABLE SITE AND SUPPLEMENTED BY HYDRAULIC FILL.
3. DOES NOT ACCOUNT FOR SHRINKAGE DUE TO DITCHING AND ADDED DRAINAGE.

**MAGNOLIA  
LNG**

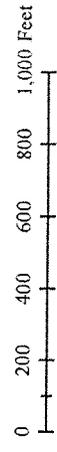
TYPICAL DIKE CROSS SECTION DETAIL  
1 OF 1

REV.#	DESCRIPTION	BY	DATE	APP.	PRJ.#	1004188.0004.03.04	APPR:	V. GEE	DATE:	05/06/2015	
					FILE.#	MAGNOLIA LNG.dwg	ENG:		P.E.	SCALE:	NTS

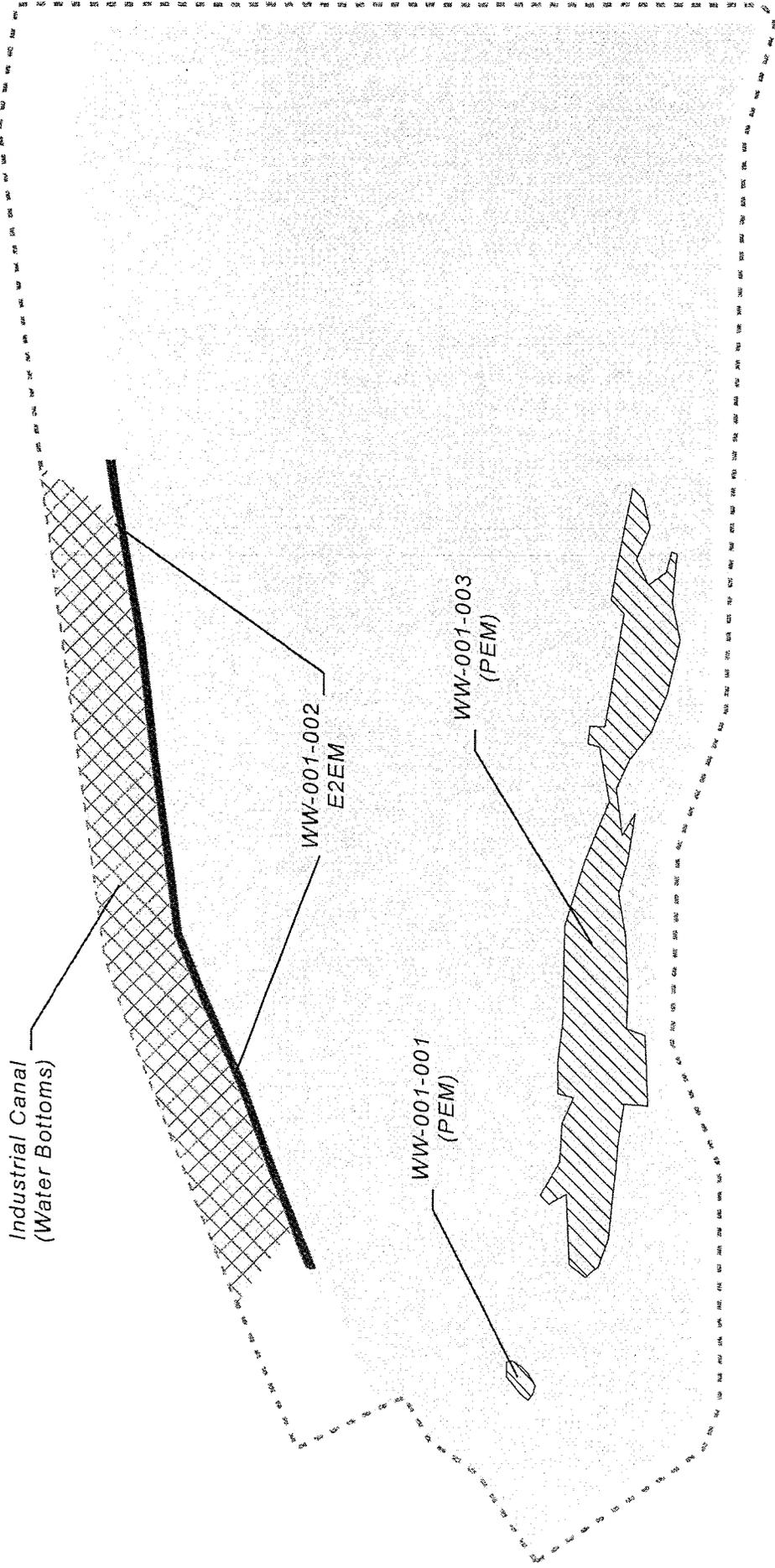


**Facility Layout**

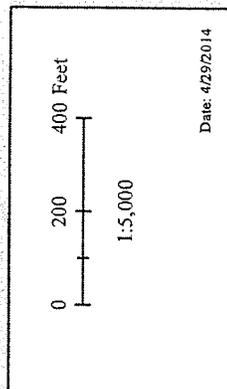
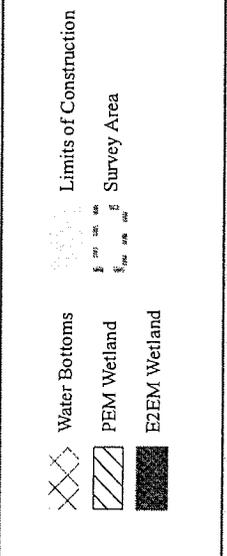
Magnolia LNG  
Calcasieu Parish, Louisiana

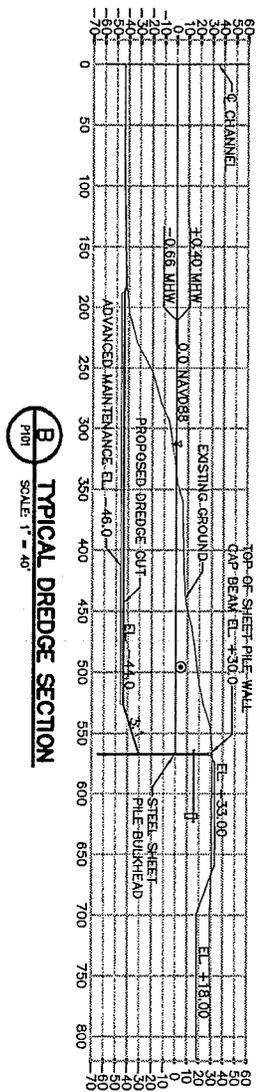
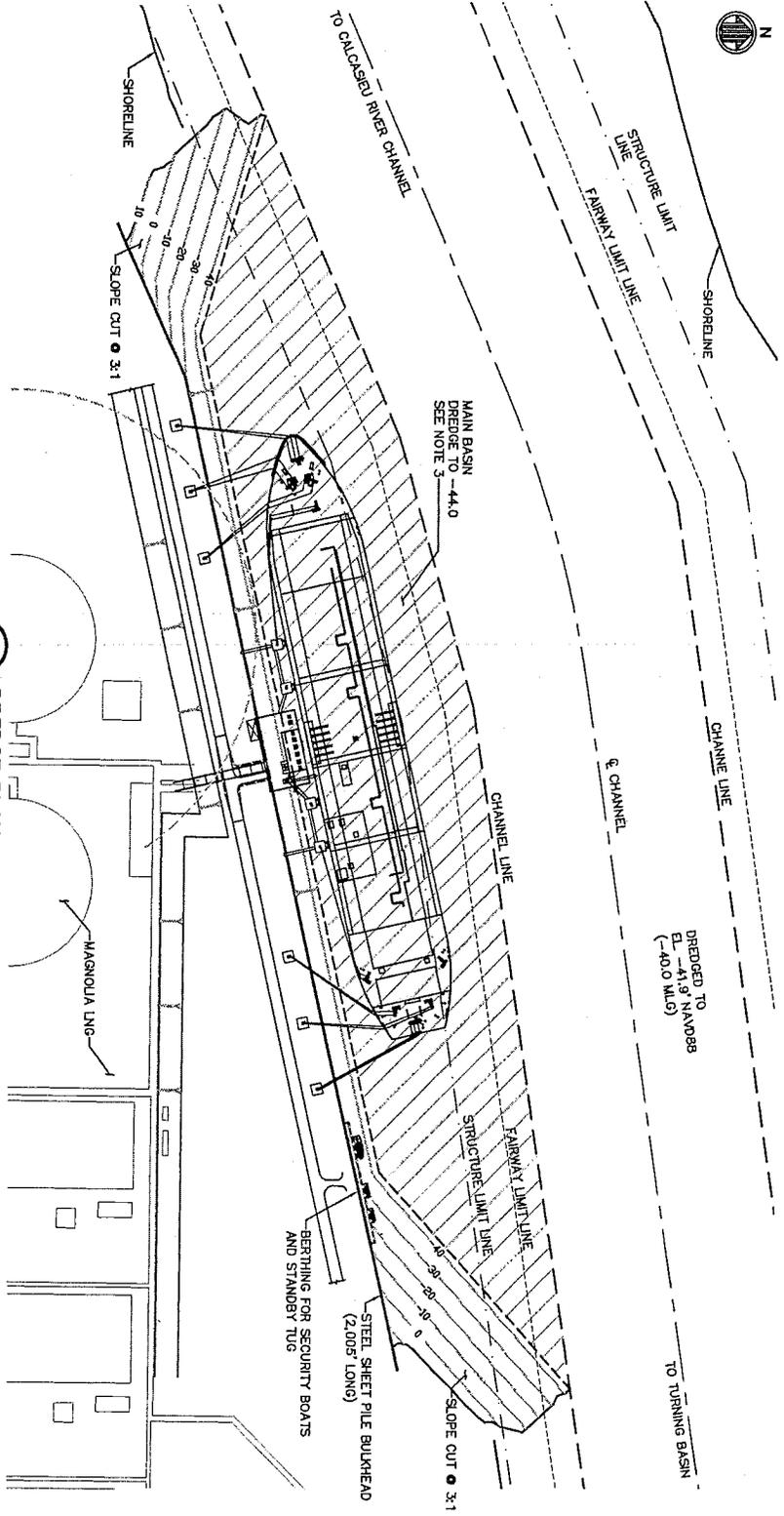


1:6,500  
Date: 4/30/2014



**Wetlands and Other Waters  
of the U.S. Intersected by  
Proposed Construction Area**  
Magnolia LNG  
Calcasieu Parish, Louisiana





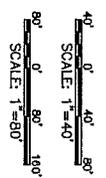
**B** TYPICAL DREDGE SECTION  
 P101 SCALE 1" = 40'

**A** DREDGE PLAN  
 P101 SCALE 1" = 80'

**NOTES:**

1. COORDINATES AND BEARINGS SHOWN ARE BASED ON THE LOUISIANA STATE PLANE NAD 83 SOUTH ZONE.
2. CHANNEL AND BASIN LIMITS REFERRED FROM US ARMY CORPS OF ENGINEERS CALCASIEU RIVER AND PASS, LA MAINTENANCE DREDGING MAR. 2013 FILE NO. H-16-4770.
3. PRELIMINARY EXCAVATION AND DREDGE BASED ON BASIN CUT TO -44.0' NAVD83 WITH 2.0' ADVANCE MAINTENANCE.  
 EXCAVATION = 131,200 CY (ABOVE +2.0)  
 DREDGE = 622,800 CY (BELOW +2.0 to -44.0)  
 ZFT ADVANCE MAINTENANCE = 39,750 CY (to -46.0)  
 TOTAL = 993,750 CY

PRELIMINARY  
 NOT FOR CONSTRUCTION



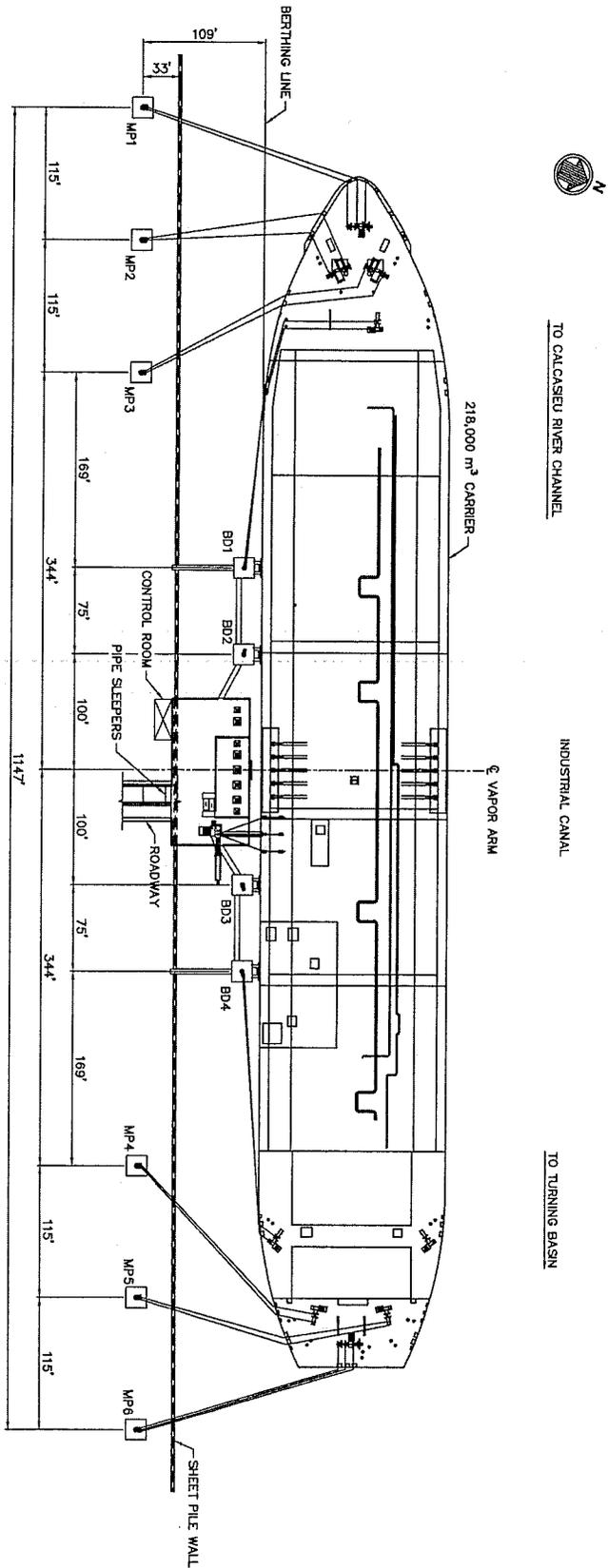
P101

MAGNOLIA LNG  
 MARINE FACILITIES  
 DREDGE PLAN



moffatt & nichol  
 MOFFATT & NICHOL JOB NO. 8166  
 SHEET 1 OF 7 DATE: 3/17/14





**A**  
 P102  
**GENERAL ARRANGEMENT**  
 SCALE: 1" = 40'

- NOTES:**
1. ALL DIMENSIONS SHOWN IN FEET.
  2. BD# - BREASTING DOLPHIN  
 MP# - SHORE BASED MOORING POINT.

40' 0" 40' 0" 80'  
 SCALE: 1" = 40'

**PRELIMINARY  
 NOT FOR CONSTRUCTION**

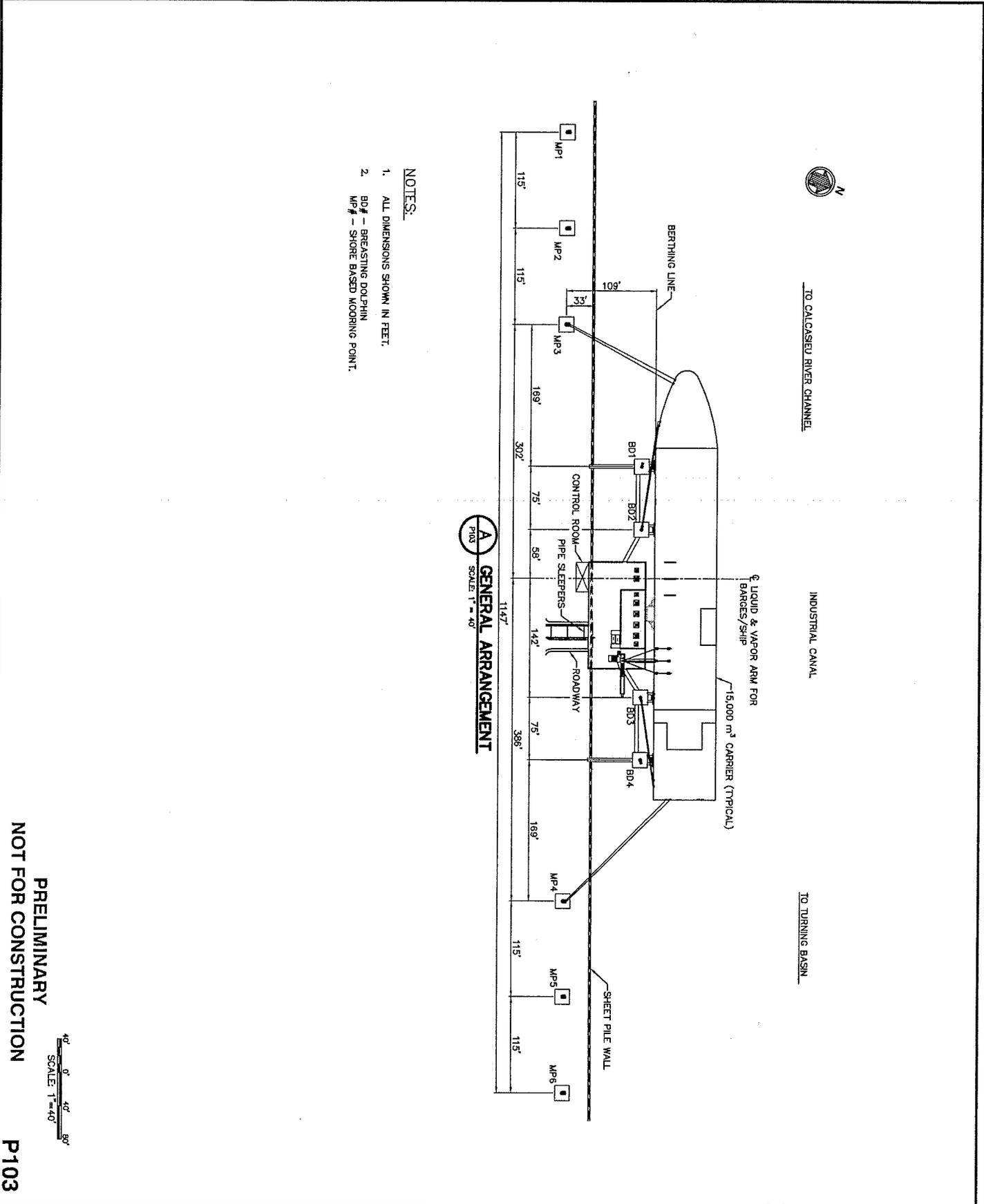
**P102**



MAGNOLIA LNG  
 MARINE FACILITIES  
 TYPICAL MOORING  
 ARRANGEMENT FOR 218,000m<sup>3</sup>  
 LNG CARRIER



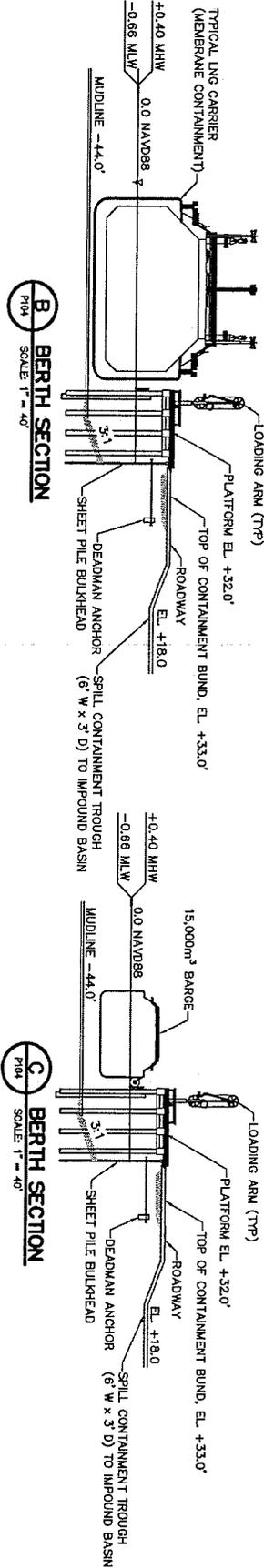
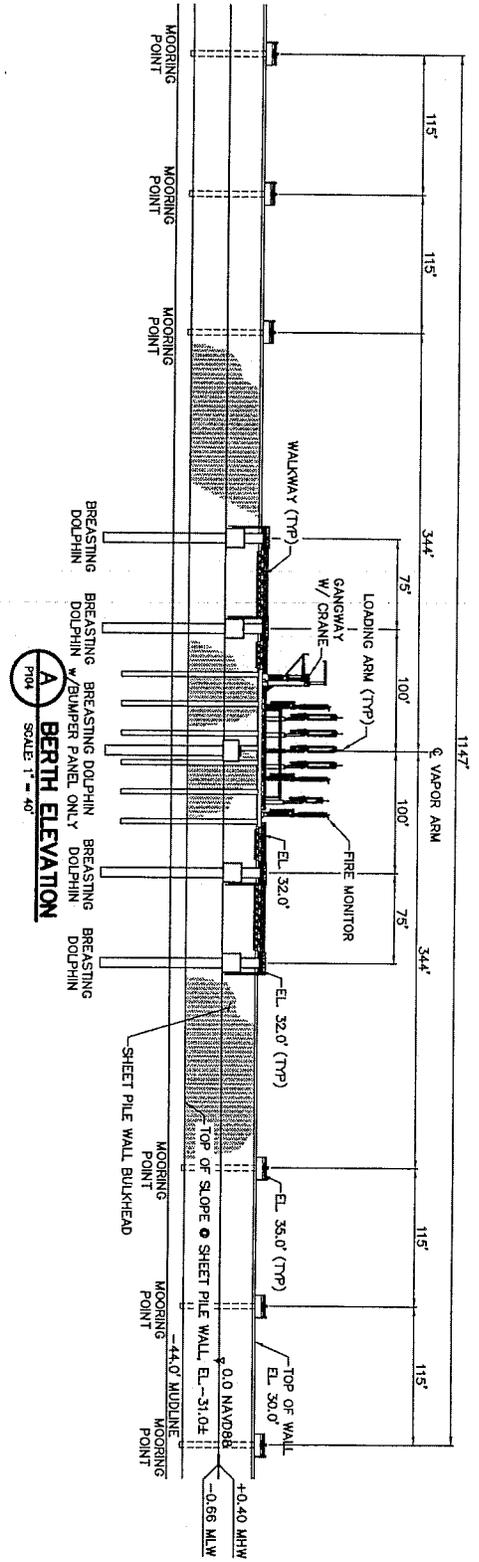
**moffatt & nichol**  
 MOFFATT & NICHOL JOB NO. 8166  
 SHEET 2 OF 7 DATE: 3/17/14



PRELIMINARY  
 NOT FOR CONSTRUCTION

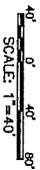
P103

	<p>MAGNOLIA LNG                  MARINE FACILITIES</p> <p>TYPICAL MOORING                  ARRANGEMENT FOR 15,000m                  LNG BARGE SHIP</p>	<p>MOFFATT &amp; NICHOL JOB NO. 8166</p> <p>SHEET 3 OF 7      DATE: 3/17/14</p>
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- NOTES:**
1. ALL DIMENSIONS SHOWN IN FEET.
  2. ALL ELEVATIONS ARE RELATIVE TO NAVD98.
  3. SEE GENERAL NOTES FOR TIDAL DATUM REFERENCES.
  4. SPILL CONTAINMENT TROUGH SHOWN AS REPRESENTATIVE ONLY, TO BE DETERMINED.

PRELIMINARY  
NOT FOR CONSTRUCTION



P104

MAGNOLIA LNG  
MARINE FACILITIES  
BERTH ELEVATION & SECTION



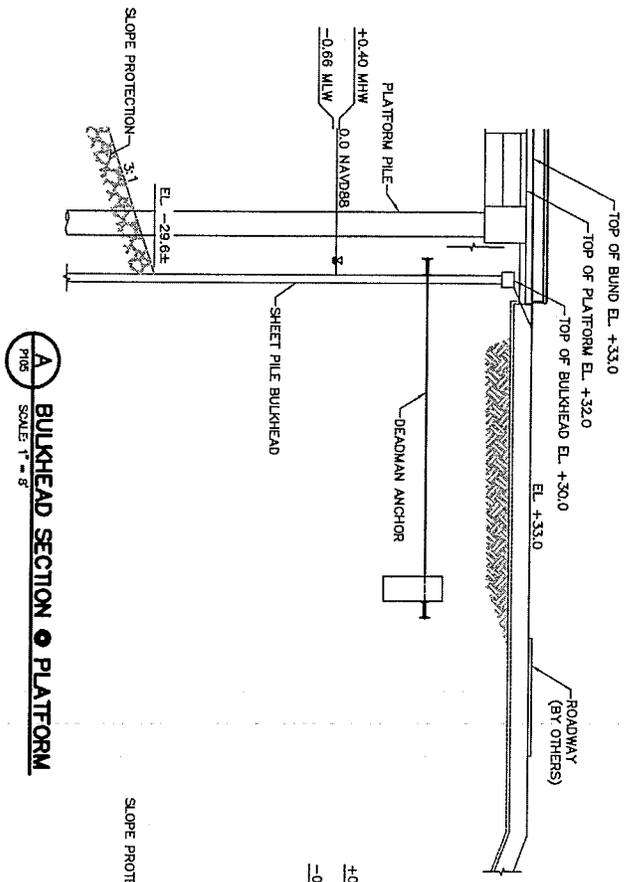
moffatt & nichol

MOFFATT & NICHOL JOB NO. 8166

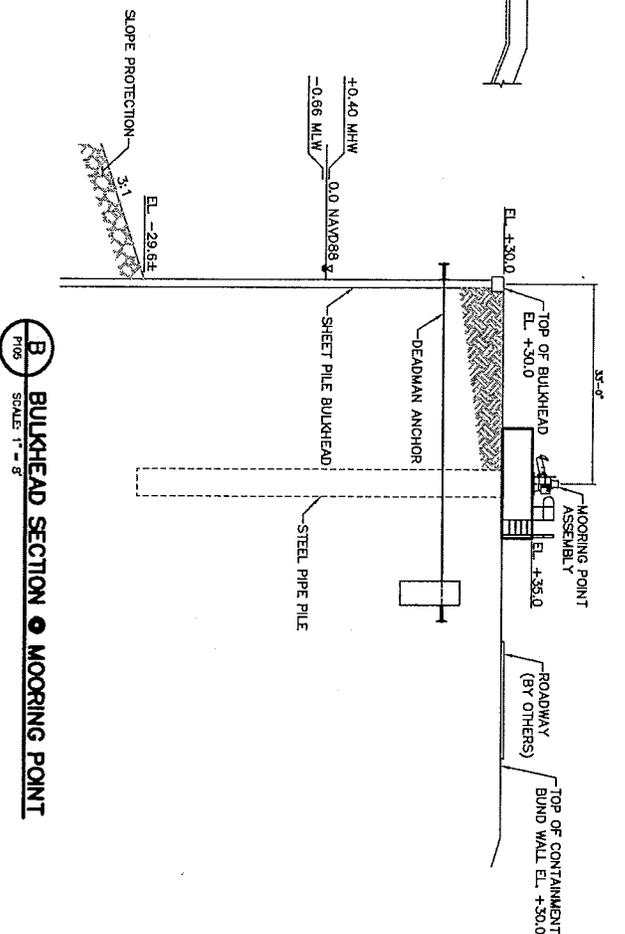
SHEET 4 OF 7

DATE: 3/17/14





**A** BULKHEAD SECTION - PLATFORM  
 P105 SCALE: 1" = 8'



**B** BULKHEAD SECTION - MOORING POINT  
 P105 SCALE: 1" = 8'

- NOTES:**
1. ALL DIMENSIONS SHOWN IN FEET.
  2. ALL ELEVATIONS ARE RELATIVE TO NAVD83.
  3. SEE GENERAL NOTES FOR TIDAL DATUM REFERENCES.



PRELIMINARY  
 NOT FOR CONSTRUCTION  
 P105



MAGNOLIA LNG  
 MARINE FACILITIES  
 BULKHEAD DETAILS

MOFFATT & NICHOL JOB NO. 8166  
 SHEET 5 OF 7 DATE: 3/17/14



