

VICINITY MAP 1"=10 MILES



PROJECT SITE
 APPROX. RIVER MILE 145.36
 LAT = 30° 3' 8.12" N
 LONG = 90° 39' 54.16" W



Rev:	Description:	Date:	By:
Rev:	Description:	Date:	By:
Rev:	0 ISSUED FOR PERMIT	12/11/12	EAW

Designed by: JS
 Drawn by: AML
 Checked by: EAW
 Approved by: EAW



**PRELIMINARY
 NOT FOR
 CONSTRUCTION**

NEW SHIP UNLOADING SYSTEM
 FOR
 NORANDA
 GRAMERCY, LOUISIANA
 VICINITY MAP

PROJ. NO. 12-M188
 DATE NOV., 2012
 DRAWING NO. VM0001



SITE PLAN
SCALE = 1" = 600'-0"

SCALE OF FEET
1" INCH = 600'-0"

Rev:	Description:	Date:	By:
0	ISSUED FOR PERMIT	12/11/12	EAW

**PRELIMINARY
NOT FOR
CONSTRUCTION**

Designed by:
JS
Drawn by:
AML
Checked by:
EAW
Approved by:
EAW



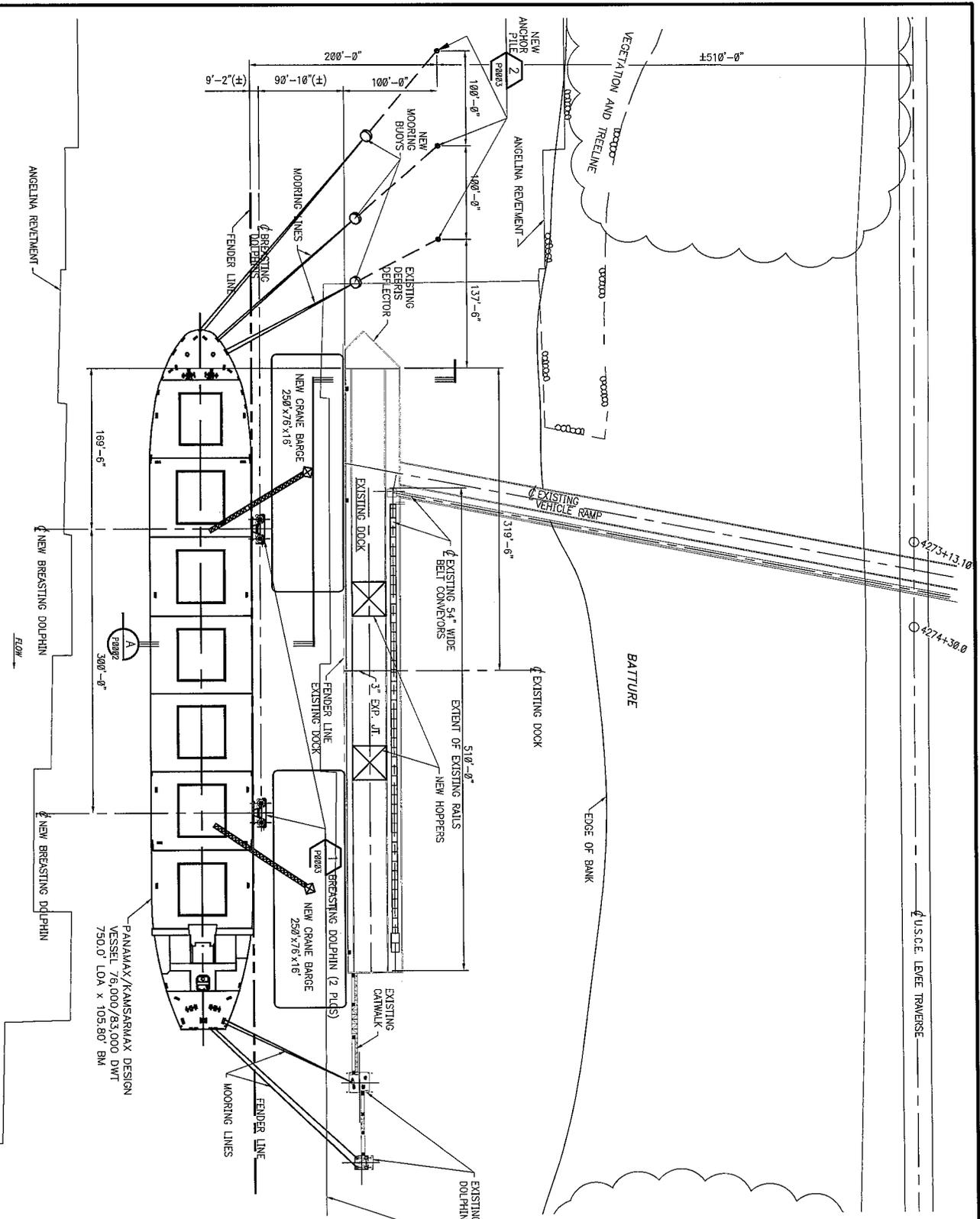
**NEW SHIP UNLOADING SYSTEM
FOR
NORANDA**
GRAMERCY, LOUISIANA
OVERALL SITE PLAN

PROJ. NO.
12-M188
DATE
NOV., 2012
DRAWING NO.
SP0001

NOTES:
1. SEE DRAWINGS P0002 AND P0005 FOR NOTES.



MISSISSIPPI RIVER
SITE PLAN
SCALE 1" = 150'-0"



**PRELIMINARY
NOT FOR
CONSTRUCTION**

Rev:	Description:	Date:	By:
Rev:	Description:	Date:	By:
Rev:	Ø ISSUED FOR PERMIT	12/11/12	EAW

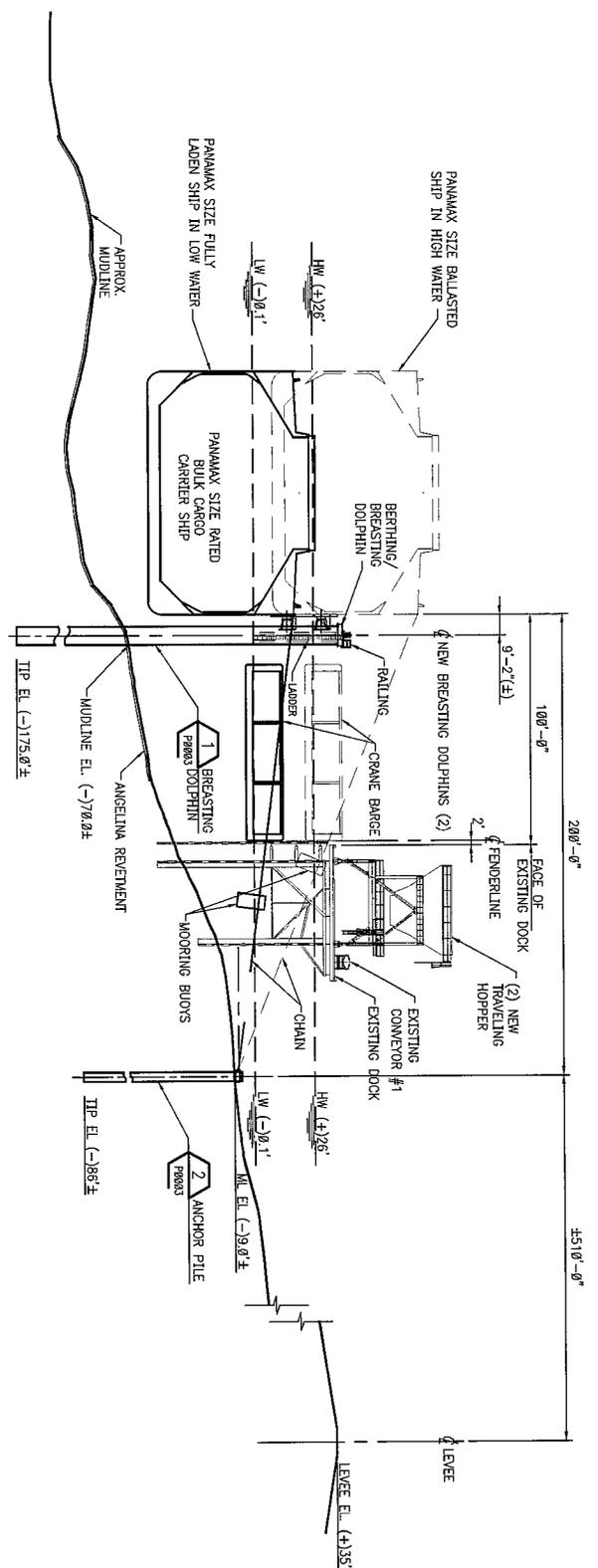
Designed by:
JS
Drawn by:
AML
Checked by:
EAW
Approved by:
EAW



RIVER CONSULTING®
WWW.RIVERCONSULTING.COM

**NEW SHIP UNLOADING SYSTEM
FOR
NORANDA**
GRAMERCY, LOUISIANA
GENERAL ARRANGEMENT - DOCK

PROJ. NO.
12-M188
DATE
NOV., 2012
DRAWING NO.
P0001



A SECTION
 P0001
 1"=80'-0"

- NOTES:**
1. NEW HOPPERS TO BE INSTALLED ON EXISTING DOCK STRUCTURE.
 2. NO EXCAVATION OR FILL EARTHWORK WILL BE PERFORMED IN THE BATTURE AREA.
 3. NO EXCAVATION OR FILL EARTHWORK WILL BE PERFORMED WITHIN 1,500 FEET OF THE LEVEE TOE ON THE PROTECTED SIDE OF THE LEVEE.
 4. NO DREDGING WILL BE PERFORMED.
 5. NO STRUCTURES WILL BE CONSTRUCTED ON OR OVER THE LEVEE.
 6. ALL CONSTRUCTION EQUIPMENT WILL BE BARGE MOUNTED.
 7. RIP-RAP FILL MATERIAL USED FOR REVENMENT REPAIR AROUND THE PROPOSED DOLPHINS/PILES WILL BE OBTAINED FROM REPUTABLE LOCAL COMMERCIAL SOURCES AND WILL BE FREE OF CONTAMINANTS.



**PRELIMINARY
 NOT FOR
 CONSTRUCTION**

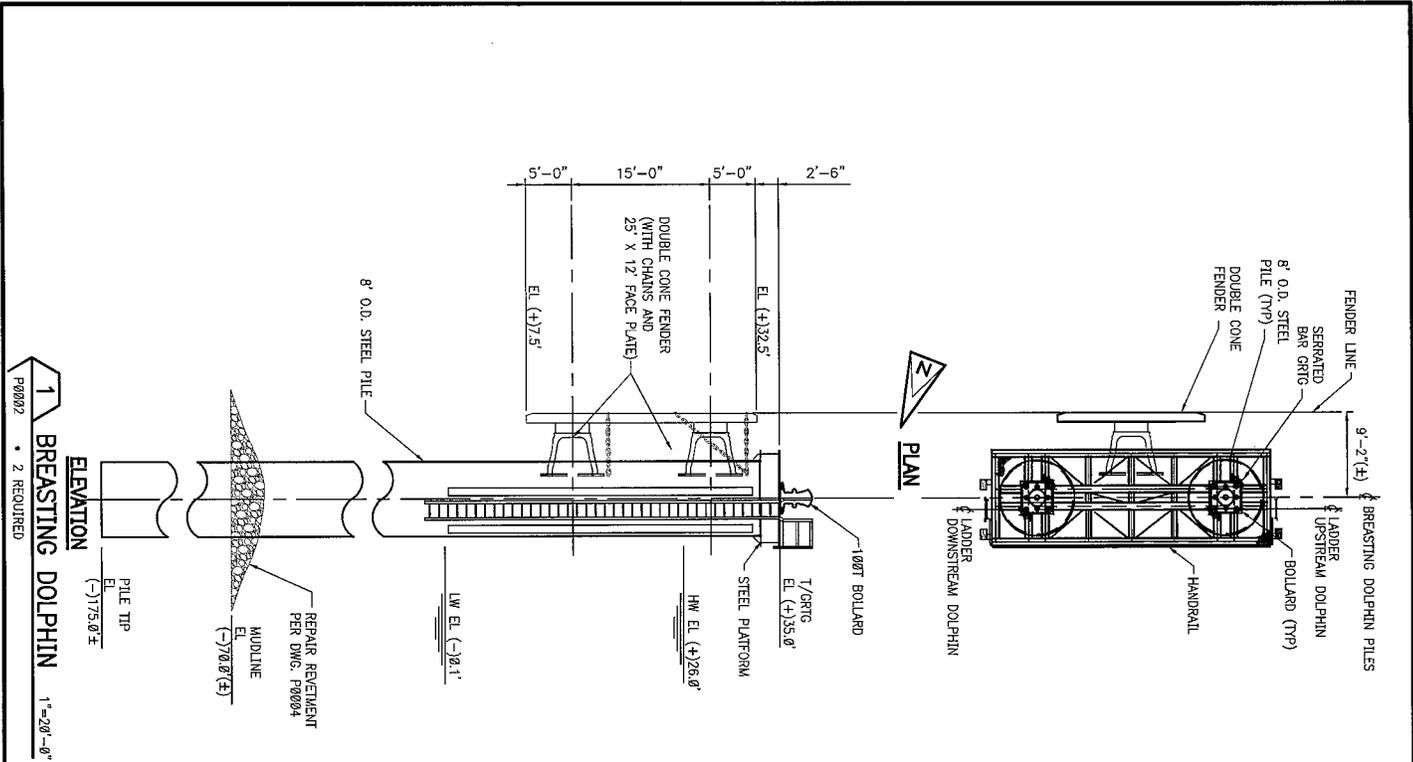
Rev:	Description:	Date:	By:
Rev:	Description:	Date:	By:
Rev:	Description: 0 ISSUED FOR PERMIT	Date: 12/11/12	By: EAW

Designed by:
JS
 Drawn by:
AML
 Checked by:
EAW
 Approved by:
EAW

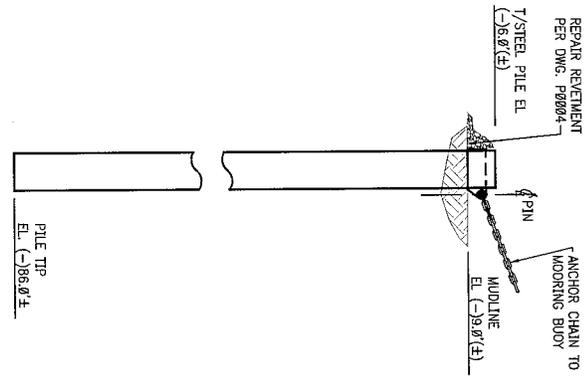


**NEW SHIP UNLOADING SYSTEM
 FOR
 NORANDA**
 GRAMERCY, LOUISIANA
 GENERAL ARRANGEMENT SECTIONS - 1 OF 2

PROJ. NO.
12-M188
 DATE
NOV., 2012
 DRAWING NO.
P0002



1 BREASTING DOLPHIN
 P00022 • 2 REQUIRED
 SCALE OF SHEET: 1" = 20'-0"



2 ANCHOR PILE
 P00022 • 3 REQUIRED
 SCALE OF SHEET: 1" = 20'-0"

Rev: Description:	Date:	By:
Rev: Description:	Date:	By:
Rev: Description: Ø ISSUED FOR PERMIT	Date: 12/11/12	By: EAW

**PRELIMINARY
NOT FOR
CONSTRUCTION**

Designed by: JS
 Drawn by: AML
 Checked by: EAW
 Approved by: EAW

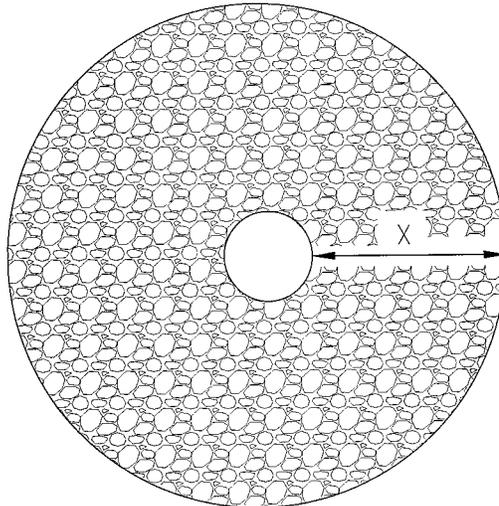


**NEW SHIP UNLOADING SYSTEM
FOR
NORANDA**

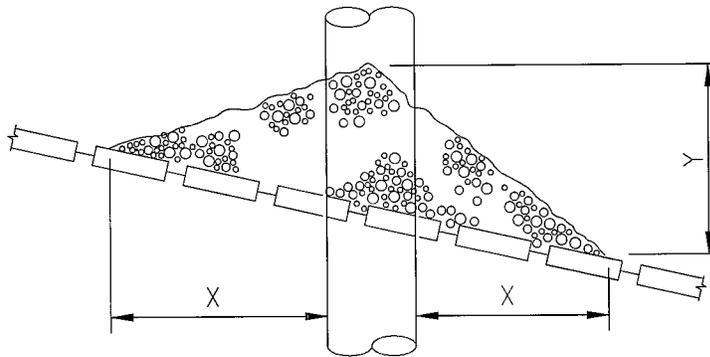
GRAMERCY, LOUISIANA

GENERAL ARRANGEMENT SECTIONS - 2 OF 2

PROJ. NO. 12-M188
 DATE NOV., 2012
 DRAWING NO. P0003



PLAN



SECTION

STANDARD REVETMENT REPAIR DETAIL N.T.S.
(FOR PILES DRIVEN THROUGH REVETMENT)

DEPTH OF WATER IN FEET AT POINT OF PILE PENETRATION	DISTANCE IN FEET		APPROXIMATE TONS OF STONE REQUIRED
	X	Y	
1 TO 10	3	1.5	1.5
11 TO 40	5	2	6.5
41 TO 60	8	3	22
61 TO 100	12	4	57

NOTE

1. SIZE OF RIP - RAP TO VARY BETWEEN 6 POUNDS AND 125 POUNDS WITH 40% TO 60% OF THE STONE WITHIN THE RANGE OF 25 POUNDS TO 75 POUNDS.

Rev:	Description:	Date:	By:
Rev:	Description:	Date:	By:
Rev:	Ø ISSUED FOR PERMIT	12/11/12	EAW

**PRELIMINARY
NOT FOR
CONSTRUCTION**

Designed by:	JS
Drawn by:	AML
Checked by:	EAW
Approved by:	JS



**NEW SHIP UNLOADING SYSTEM
FOR
NORANDA**

GRAMERCY, LOUISIANA

STANDARD REVETMENT REPAIR DETAIL

PROJ. NO.	12-M188
DATE	NOV., 2012
DRAWING NO.	P0004

NOTES

1. AS-BUILT DRAWINGS WILL BE SUBMITTED WITHIN 30 DAYS OF COMPLETION OF THIS PROJECT TO THE LOUISIANA DEPARTMENT OF NATURAL RESOURCES, OFFICE OF CONSERVATION, PIPELINE DIVISION, P. O. BOX 94275, BATON ROUGE, LA 70804, AND TO THE LOUISIANA DEPARTMENT OF NATURAL RESOURCES, COASTAL MANAGEMENT DIVISION, P. O. BOX 44487, BATON ROUGE, LA 70804-4487.
2. ALL STRUCTURES, FACILITIES, WELL AND PIPELINES/FLOWLINES OCCURRING IN OPEN WATER AREAS OR IN OILFIELD CANALS OR SLIPS SHALL BE REMOVED WITHIN 120 DAYS OF ABANDONMENT OR THE FACILITIES FOR THE HEREIN PERMITTED USE UNLESS PRIOR WRITTEN APPROVAL TO LEAVE SUCH STRUCTURES IN PLACE IS RECEIVED FROM THE COASTAL MANAGEMENT DIVISION. THIS CONDITION DOES NOT PRECLUDE THE NECESSITY FOR REVISING THE CURRENT PERMIT OR OBTAINING A SEPARATE COASTAL USE PERMIT, SHOULD ONE BE REQUIRED.
3. STRUCTURES MUST ALSO BE MARKED/LIGHTED IN ACCORDANCE WITH U.S. COAST GUARD REGULATIONS.
4. IN ORDER TO ENSURE THE SAFETY OF ALL PARTIES, THE PERMITTEE SHALL CONTACT THE LOUISIANA ONE CALL SYSTEM (1-800-272-3020) A MINIMUM OF 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY EXCAVATION (DIGGING, DREDGING, JETTING, ETC.) OR DEMOLITION ACTIVITY.
5. CONSTRUCTION OVER THE LEVEE AND CONSTRUCTION WITHIN 10 FEET OF THE TOE IS LIMITED TO RIVER STAGES BELOW +11 FEET ON THE CARROLLTON GAGE.
6. PILE DRIVING IS LIMITED TO RIVER STAGES BELOW +11 FEET ON THE CARROLLTON GAGE.

Rev:	Description:	Date:	By:
Rev:	Description:	Date:	By:
Rev:	Description:	Date:	By:
0	ISSUED FOR PERMIT	12/11/12	EAW

**PRELIMINARY
NOT FOR
CONSTRUCTION**

Designed by:	JS
Drawn by:	AML
Checked by:	EAW
Approved by:	JS



RIVER CONSULTING™
WWW.RIVERCONSULTING.COM

NEW SHIP UNLOADING SYSTEM FOR NORANDA	GRAMERCY, LOUISIANA
NDSI NOTES	

PROJ. NO.	12-M188
DATE	NOV., 2012
DRAWING NO.	P0005