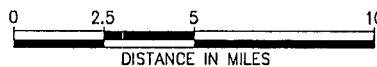


VICINITY MAP

GRAPHIC SCALE



PARISH: PLAQUEMINES
 LATITUDE: 29°40'02" N
 LONGITUDE: 89°57'50" W

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 FOR 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 PERMITEE 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

8733-P01

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

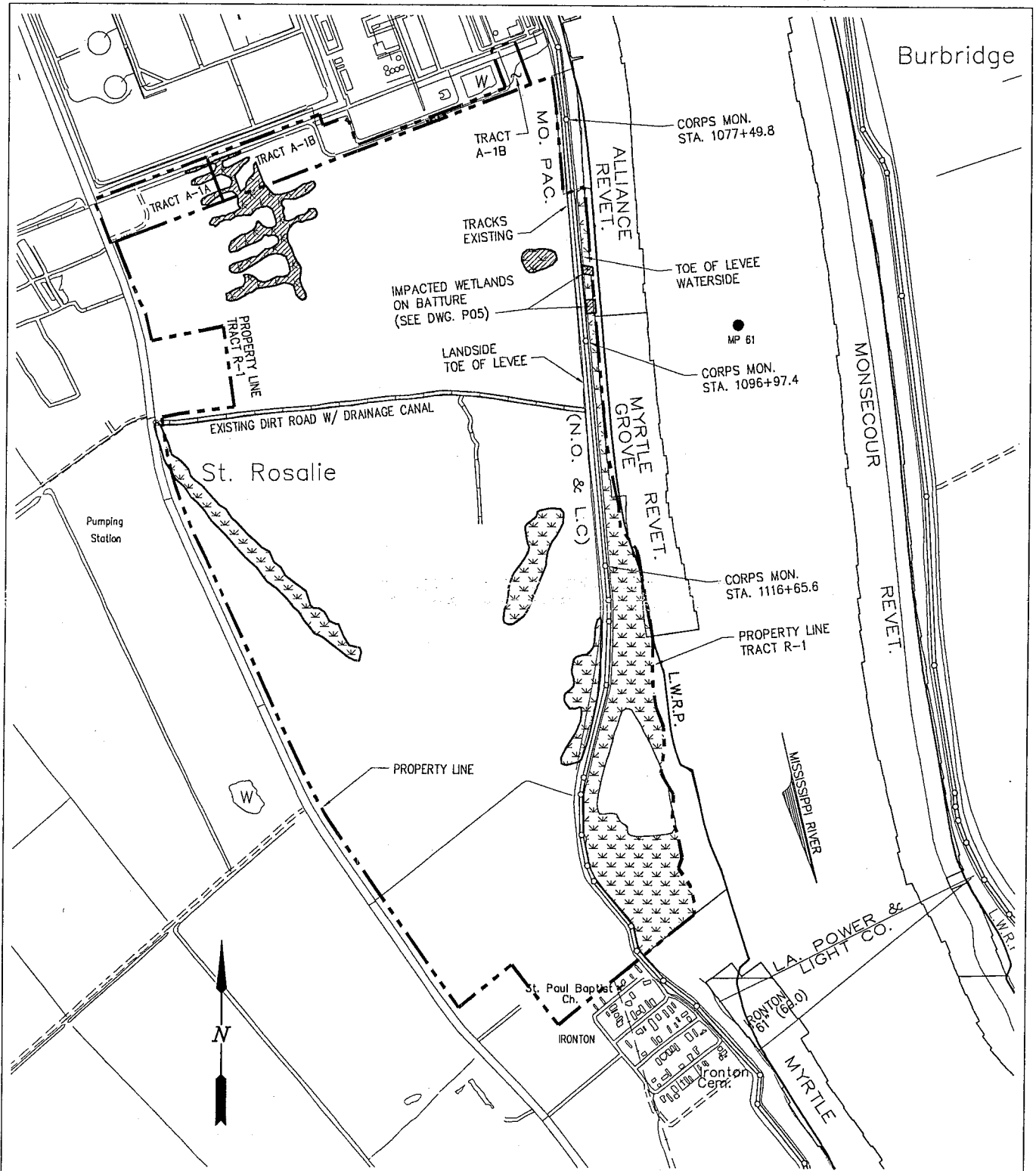
RAM TERMINALS, LLC
 MYRTLE GROVE

LOUISIANA

COAL EXPORT FACILITY
SITE VICINITY MAP

DATE MARCH '12
 DESIGN ARF
 DRAWN JJF
 CHECK JEF
 CONTRACT 8733
 SHEET No.

1 OF 26



KEY

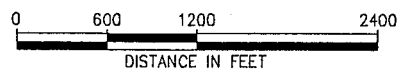


WETLANDS



IMPACTED WETLANDS

TOTAL AREA OF IMPACTED WETLANDS = 9.7 ACRES



8733-P02



LANIER & ASSOCIATES
CONSULTING ENGINEERS
INCORPORATED

NEW ORLEANS, LA • BEAUMONT, TX

MYRTLE GROVE

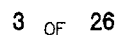
RAM TERMINALS, LLC

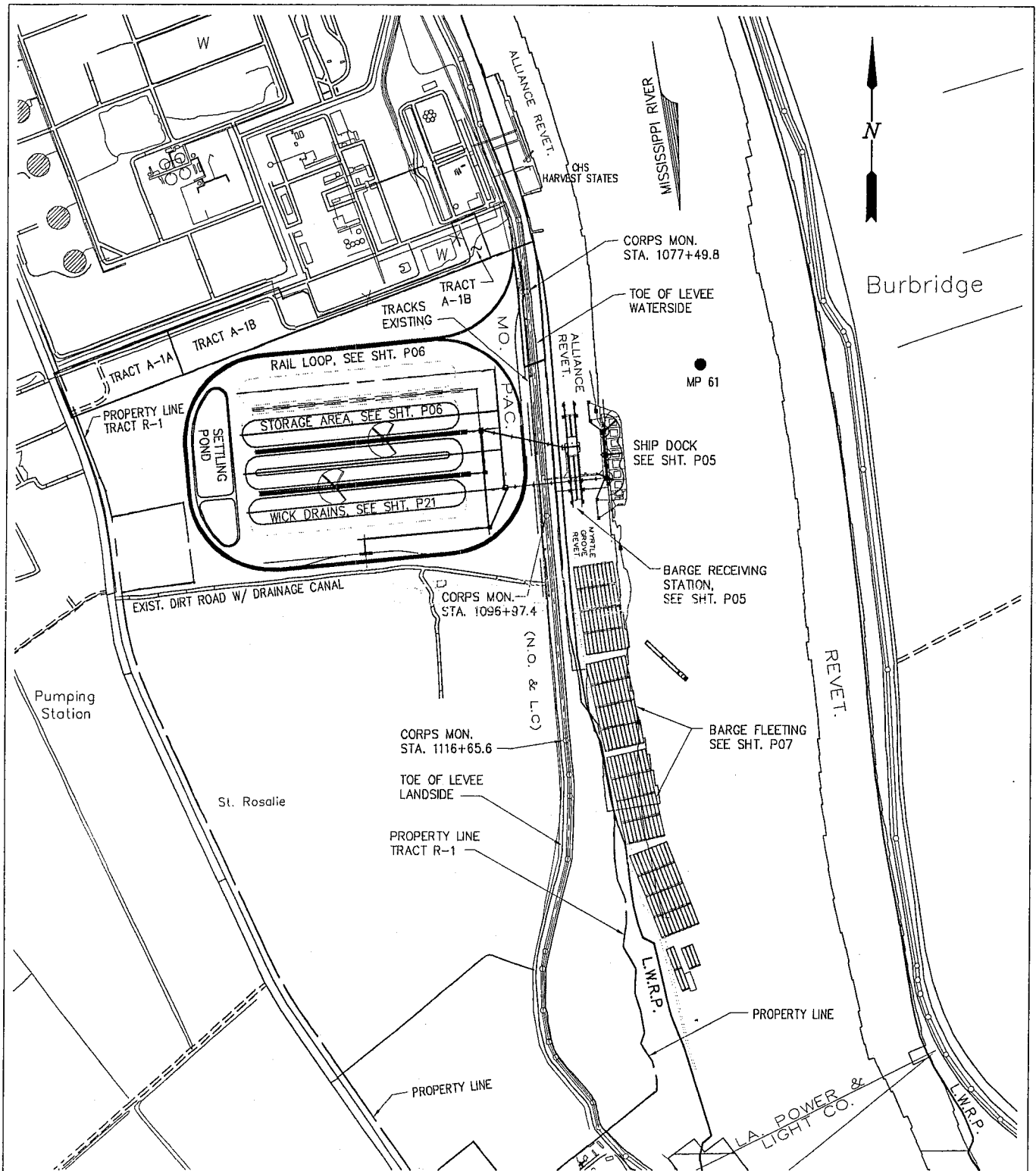
LOUISIANA

**COAL EXPORT FACILITY
EXISTING SITE PLAN**

DATE MARCH '12
DESIGN ARF
DRAWN JJF
CHECK JEJ
CONTRACT 8733
SHEET No.

2 OF 26





0 600 1200 2400
DISTANCE IN FEET

8733-P04

LANIER & ASSOCIATES
CONSULTING ENGINEERS
INCORPORATED

NEW ORLEANS, LA • BEAUMONT, TX

RAM TERMINALS, LLC

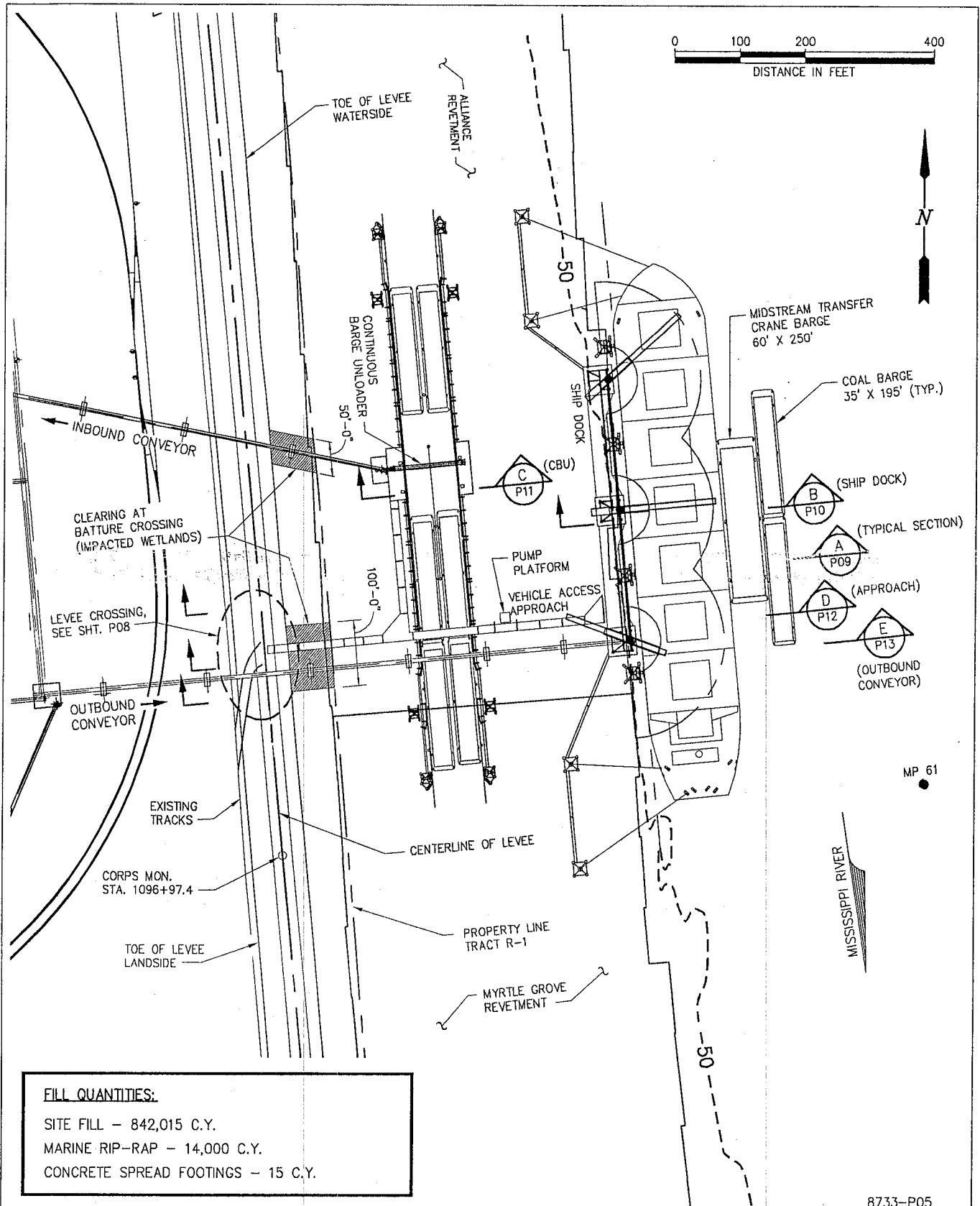
MYRTLE GROVE

LOUISIANA

**COAL EXPORT FACILITY
OVERALL SITE PLAN**

DATE MARCH '12
DESIGN ARF
DRAWN JJF
CHECK JEJ
CONTRACT 8733
SHEET No.

4 OF 26



8733-P05

LANIER & ASSOCIATES
CONSULTING ENGINEERS
INCORPORATED

NEW ORLEANS, LA • BEAUMONT, TX

RAM TERMINALS, LLC

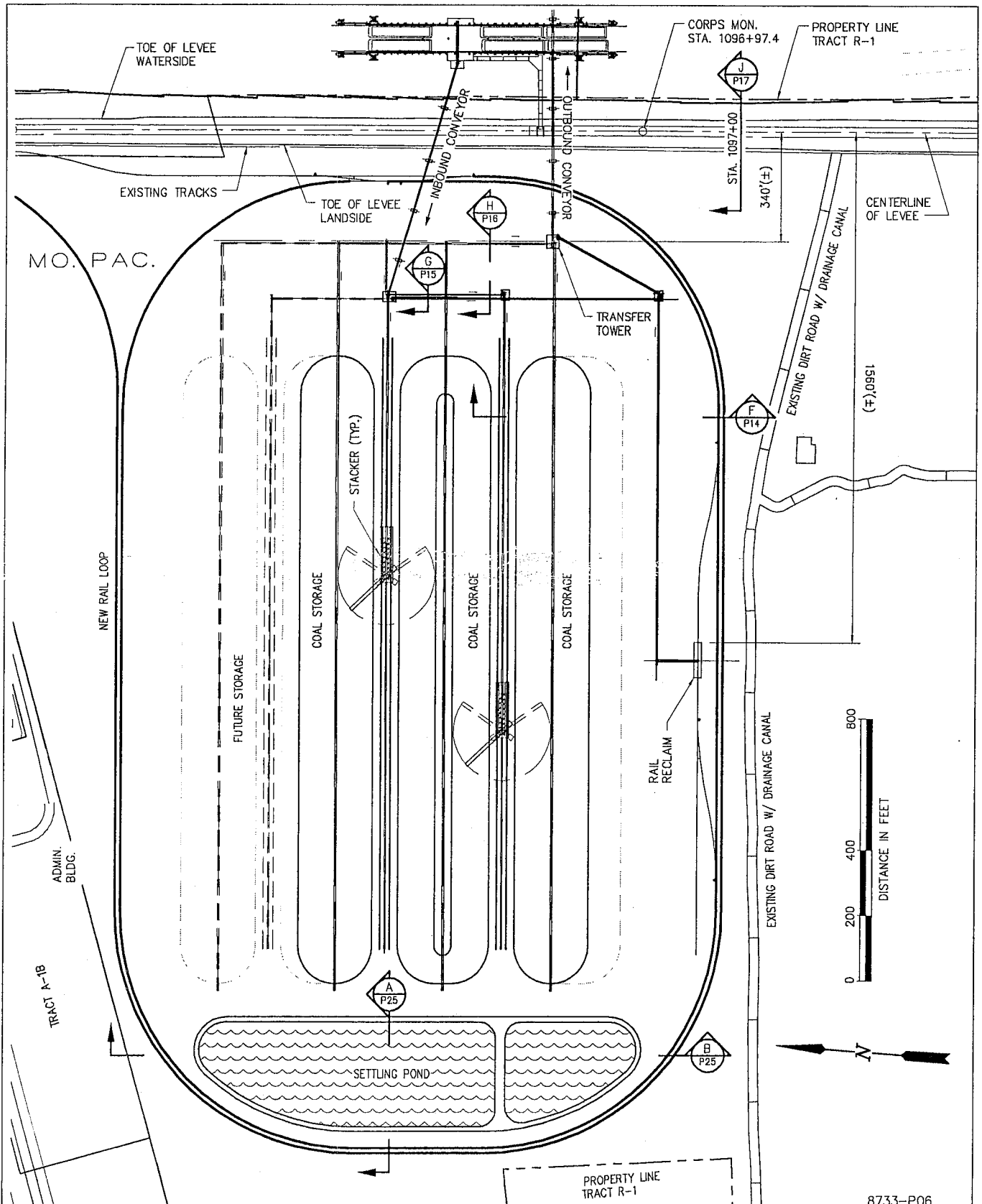
MYRTLE GROVE

LOUISIANA

**COAL EXPORT FACILITY
ENLARGED DOCKS PLAN**

DATE JAN. '12
DESIGN ARF
DRAWN JJF
CHECK JEJ
CONTRACT 8733
SHEET No.

5 OF 26



8733-P06



LANIER & ASSOCIATES
CONSULTING ENGINEERS
INCORPORATED

NEW ORLEANS, LA • BEAUMONT, TX

RAM TERMINALS, LLC

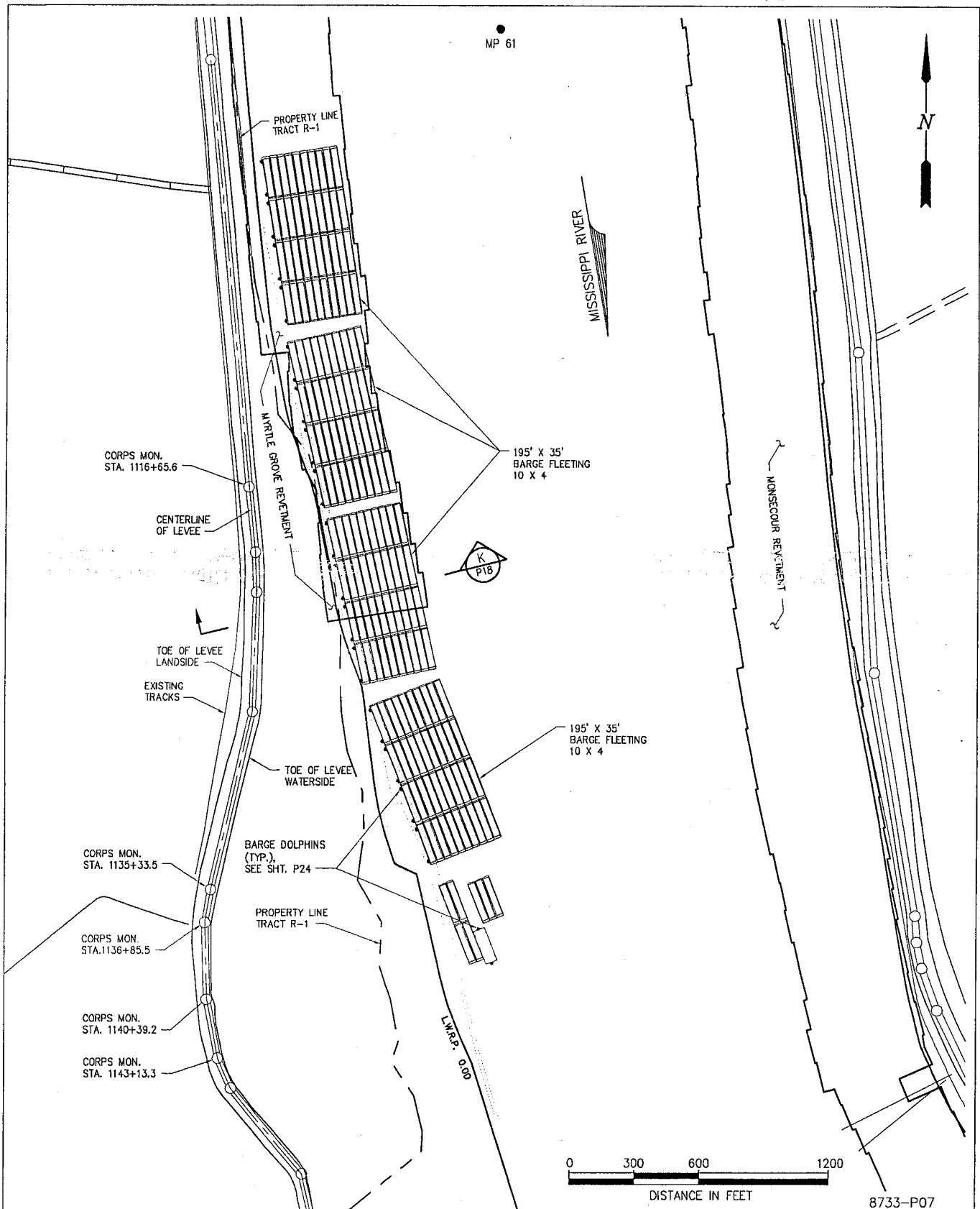
MYRTLE GROVE

LOUISIANA

**COAL EXPORT FACILITY
ENLARGED COAL STORAGE PLAN**

DATE MARCH '12
DESIGN ARF
DRAWN JJF
CHECK JEJ
CONTRACT 8733
SHEET No.

6 OF 26



LANIER & ASSOCIATES
CONSULTING ENGINEERS
INCORPORATED

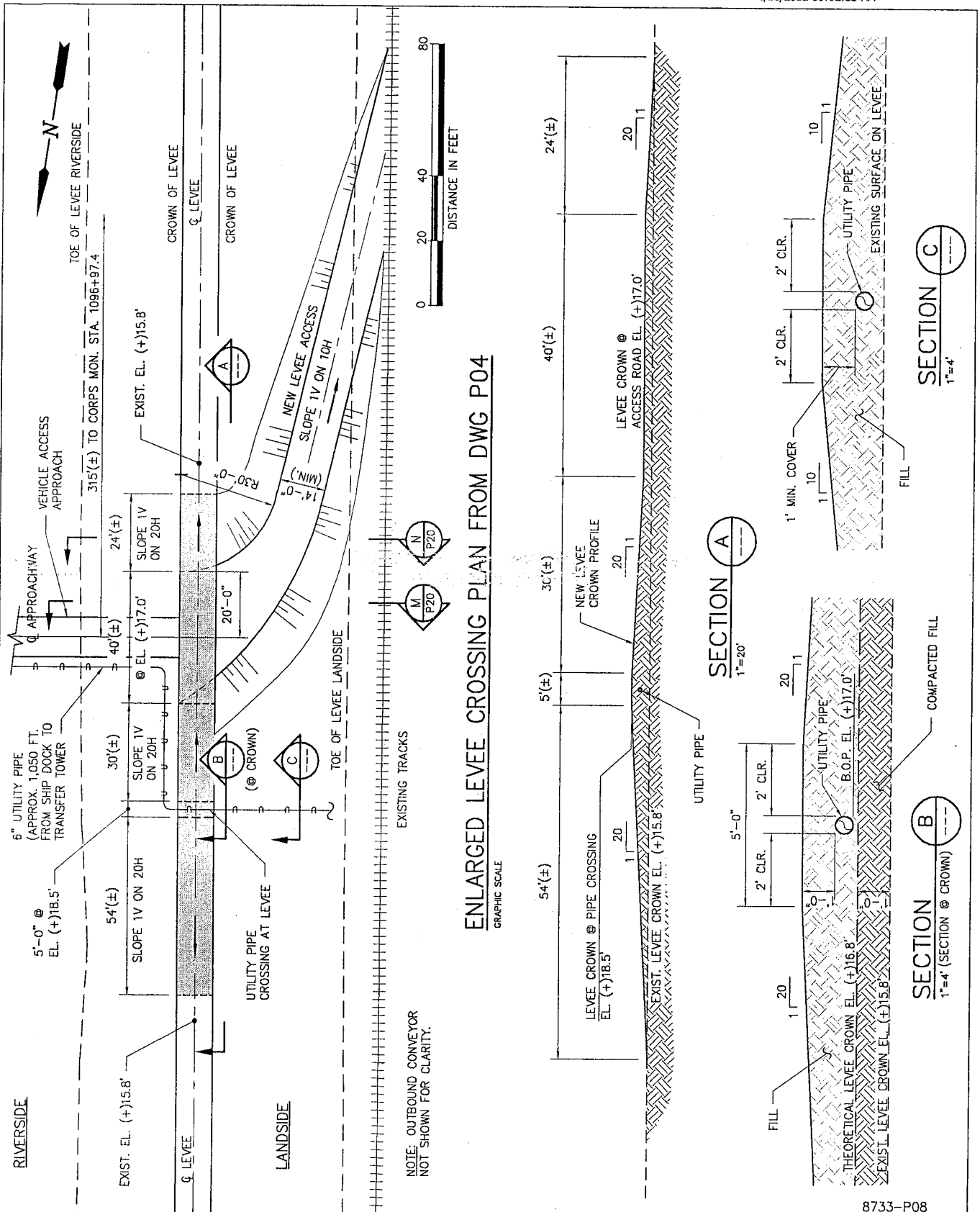
NEW ORLEANS, LA • BEAUMONT, TX

RAM TERMINALS, LLC
MYRTLE GROVE LOUISIANA

**COAL EXPORT FACILITY
ENLARGED BARGE FLEETING PLAN**

DATE MARCH '12
DESIGN ARF
DRAWN JJF
CHECK JEJ
CONTRACT 8733
SHEET No.

7 OF 26



LANIER & ASSOCIATES
CONSULTING ENGINEERS
INCORPORATED

NEW ORLEANS, LA • BEAUMONT, TX

MYRTLE GROVE

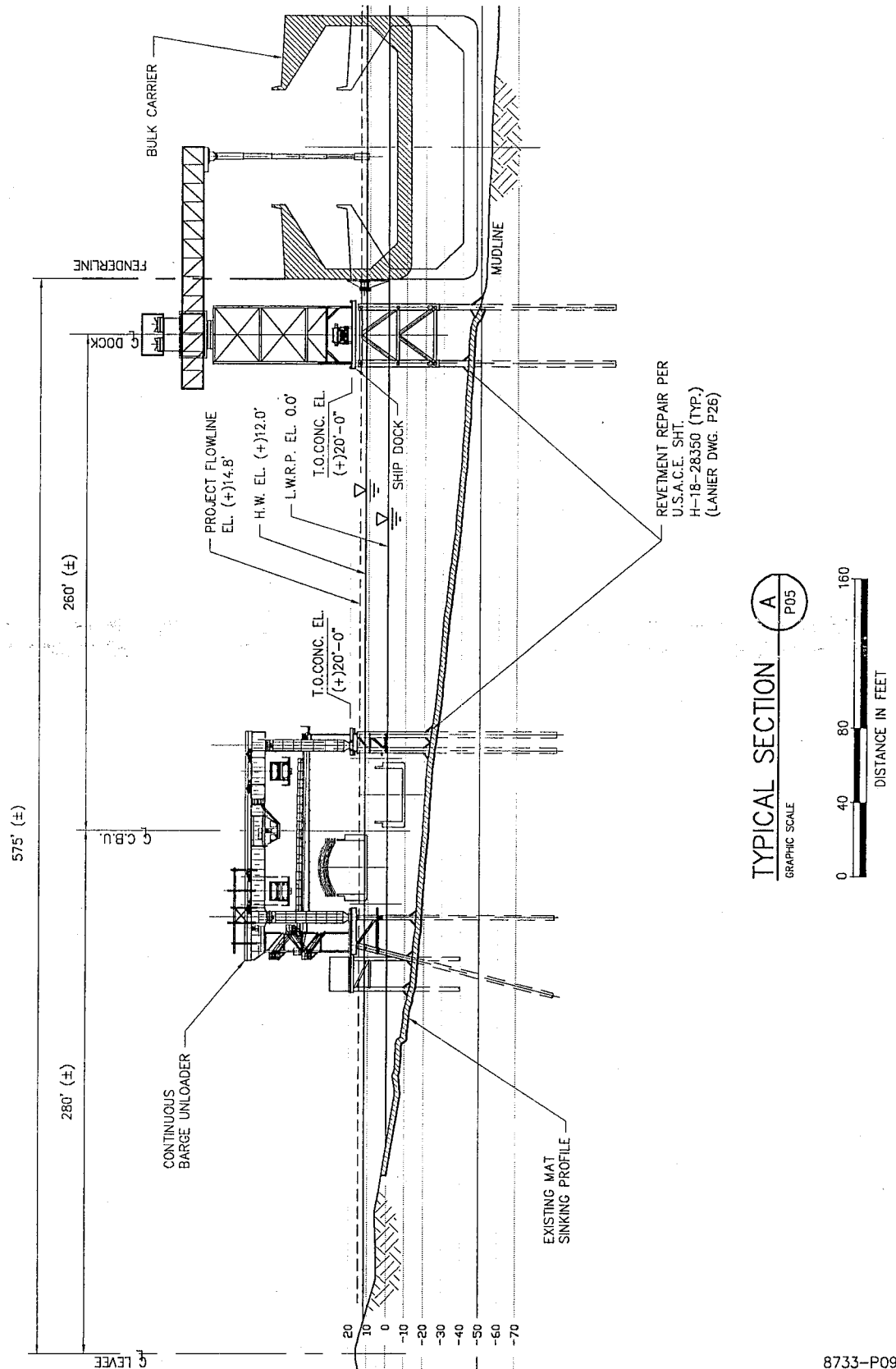
RAM TERMINALS, LLC

LOUISIANA

**PROPOSED NEW COAL HANDLING TERMINAL
LEVEE CROSSING PLAN AND SECTIONS**

DATE MARCH '12
DESIGN ARF
DRAWN JJF
CHECK JEJ
CONTRACT 8733
SHEET No.

8 OF 26



LANIER & ASSOCIATES
CONSULTING ENGINEERS
INCORPORATED

NEW ORLEANS, LA • BEAUMONT, TX

RAM TERMINALS, LLC
MYRTLE GROVE

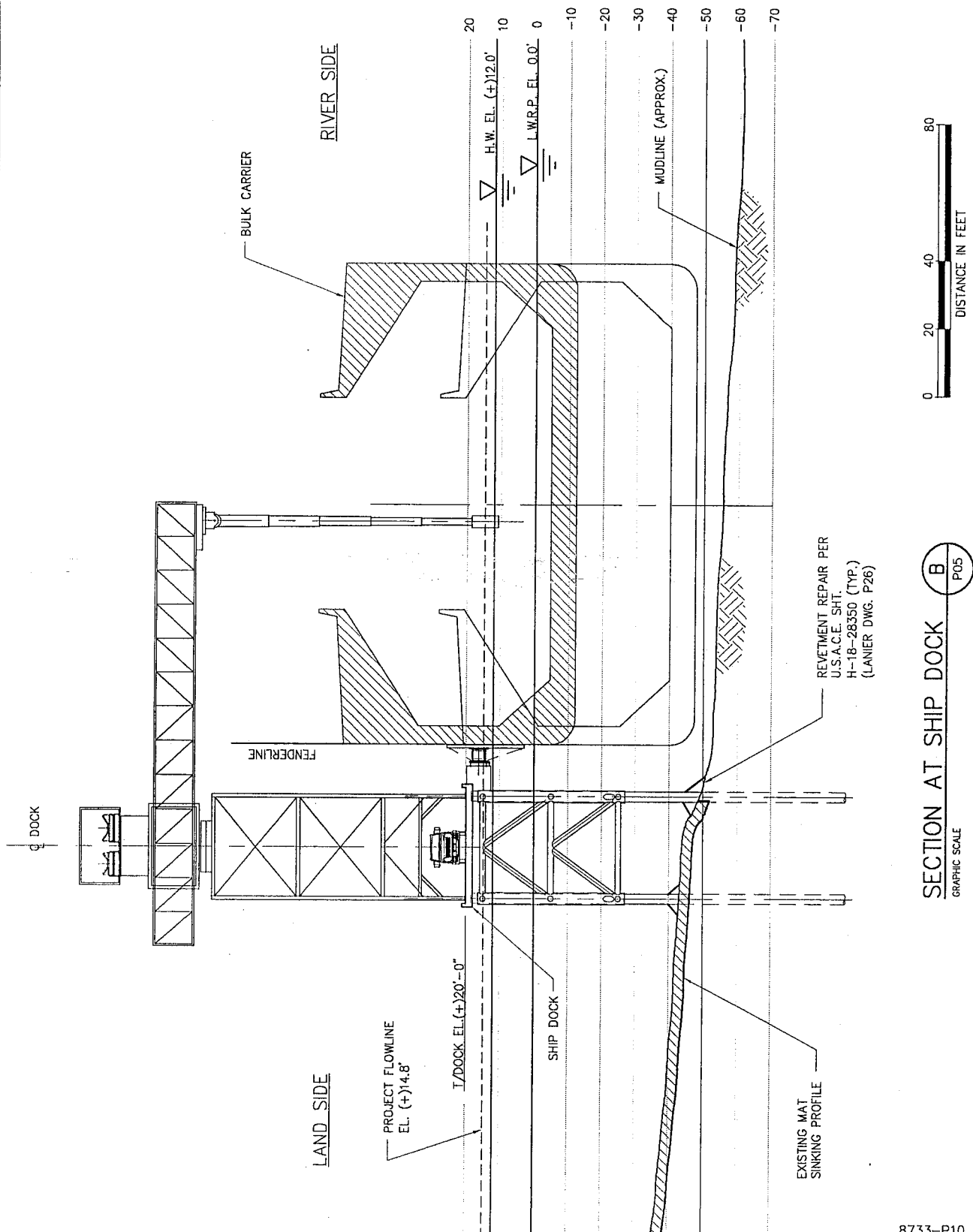
LOUISIANA

COAL EXPORT FACILITY
TYPICAL SECTION

8733-P09

DATE MARCH '12
DESIGN ARF
DRAWN JJF
CHECK JEJ
CONTRACT 8733
SHEET No.

9 OF 26



SECTION AT SHIP DOCK
GRAPHIC SCALE
B
P05

8733-P10

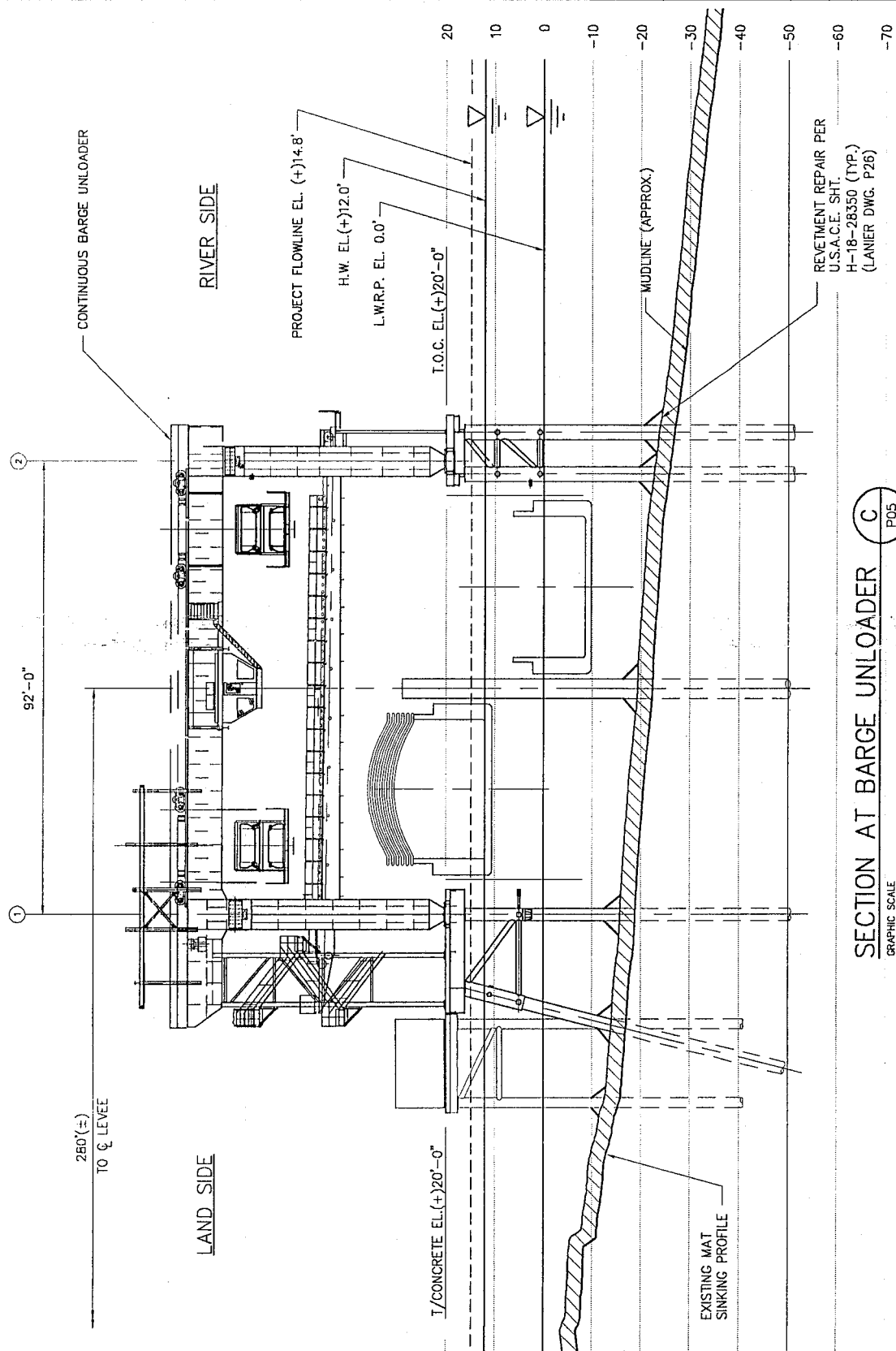
LANIER & ASSOCIATES
CONSULTING ENGINEERS
INCORPORATED
NEW ORLEANS, LA • BEAUMONT, TX

MYRTLE GROVE **RAM TERMINALS, LLC** LOUISIANA

**COAL EXPORT FACILITY
SECTION AT SHIP DOCK**

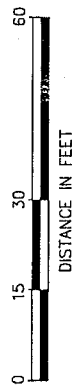
DATE MARCH '12
DESIGN ARF
DRAWN JJF
CHECK JEJ
CONTRACT 8733
SHEET No.

10 OF 26



SECTION AT BARGE UNLOADER

GRAPHIC SCALE



8733-P11



LANIER & ASSOCIATES
CONSULTING ENGINEERS
INCORPORATED

NEW ORLEANS, LA BEAUMONT, TX

MYRTLE GROVE

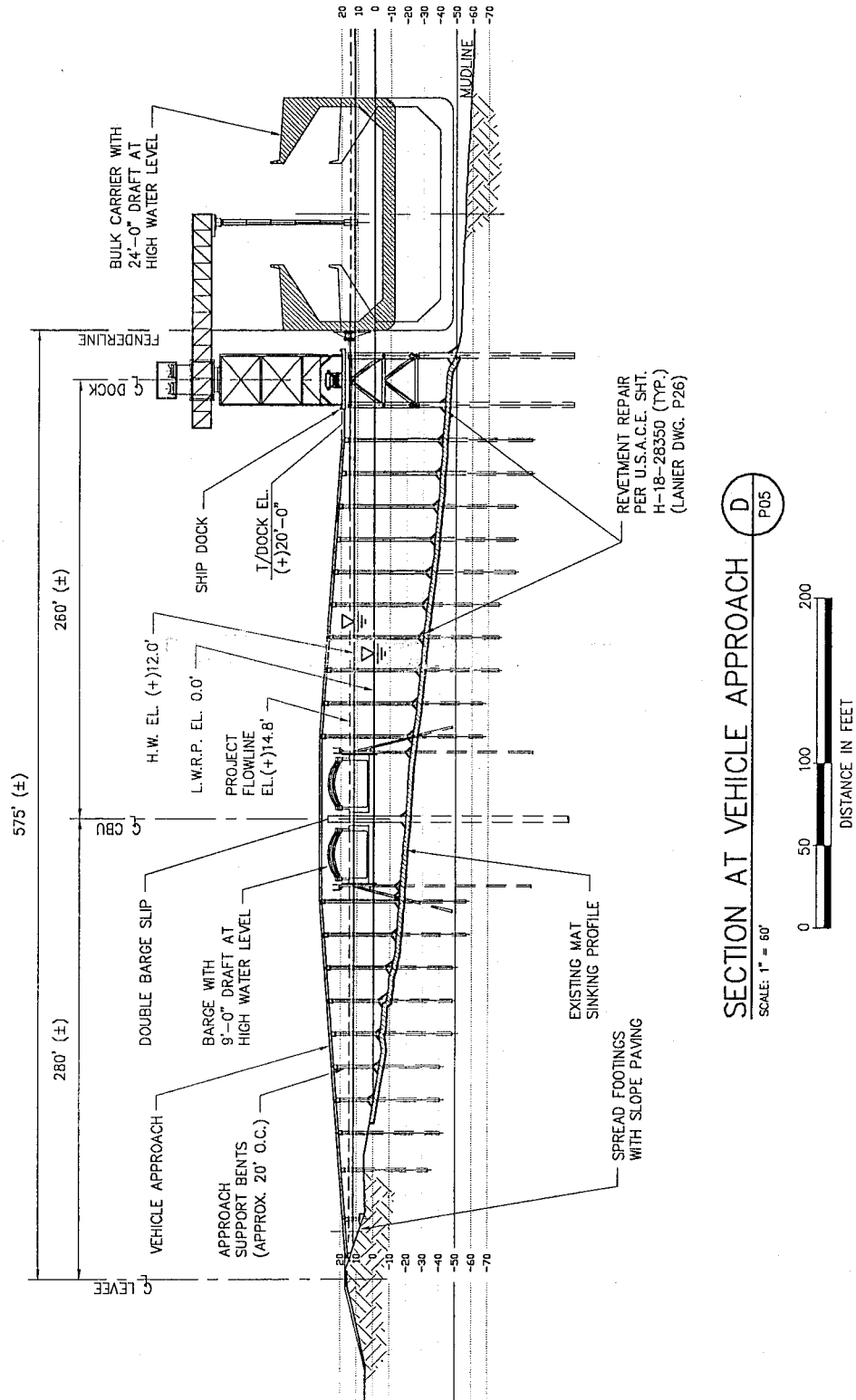
RAM TERMINALS, LLC

LOUISIANA

COAL EXPORT FACILITY
SECTION AT BARGE UNLOADER

DATE MARCH '12
DESIGN ARF
DRAWN JJF
CHECK JEJ
CONTRACT 8733
SHEET No.

11 OF 26



8733-P12



LANIER & ASSOCIATES
CONSULTING ENGINEERS
INCORPORATED

NEW ORLEANS, LA • BEAUMONT, TX

MYRTLE GROVE

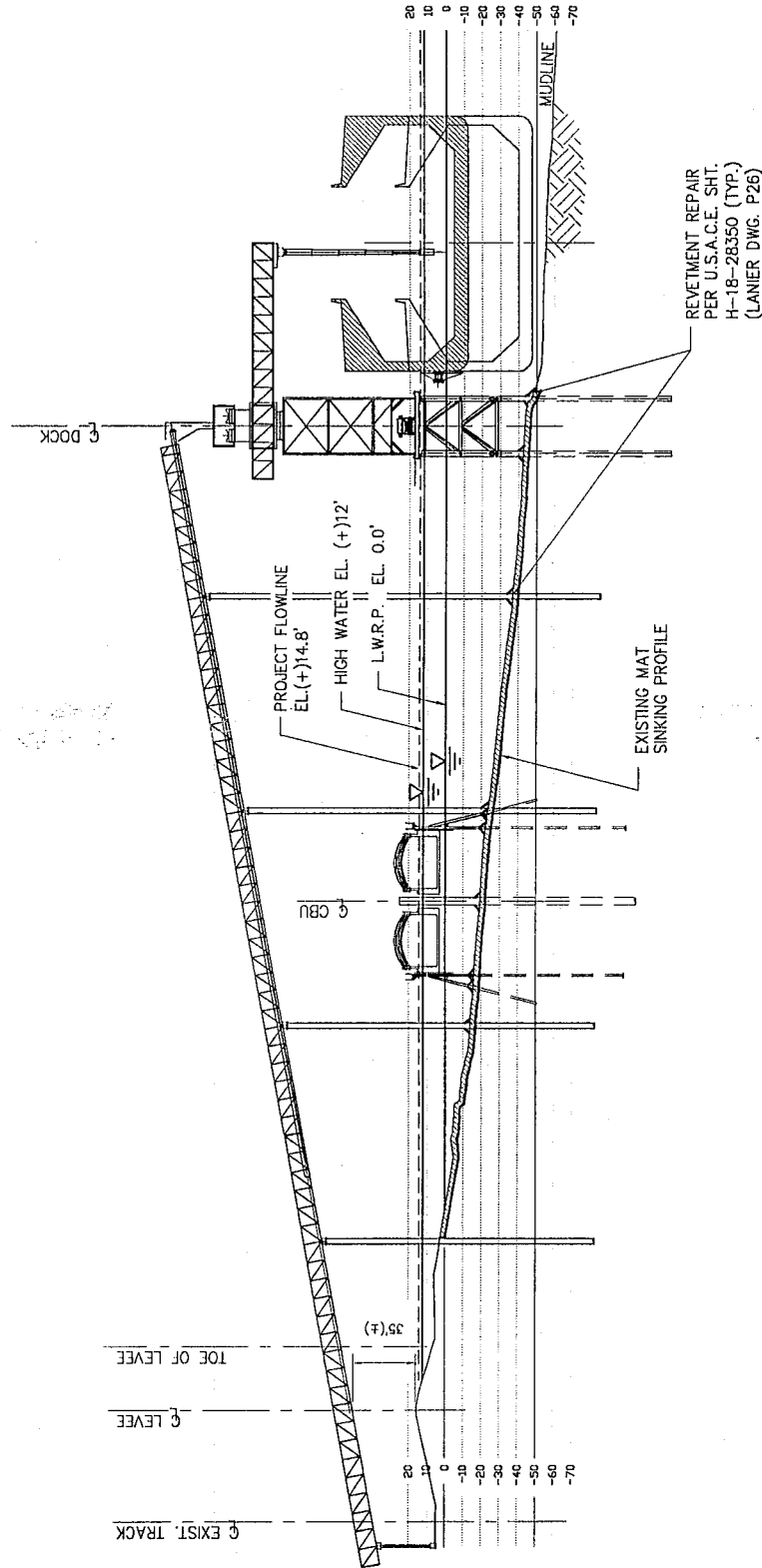
RAM TERMINALS, LLC

LOUISIANA

COAL EXPORT FACILITY
SECTION AT VEHICLE APPROACH

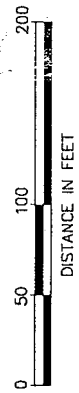
DATE MARCH '12
DESIGN ARF
DRAWN JJF
CHECK JEJ
CONTRACT 8733
SHEET No.

12 OF 26



SECTION AT OUTBOUND CONVEYOR

GRAPHIC SCALE



8733-P13



LANIER & ASSOCIATES
CONSULTING ENGINEERS
INCORPORATED

NEW ORLEANS, LA · BEAUMONT, TX

MYRTLE GROVE

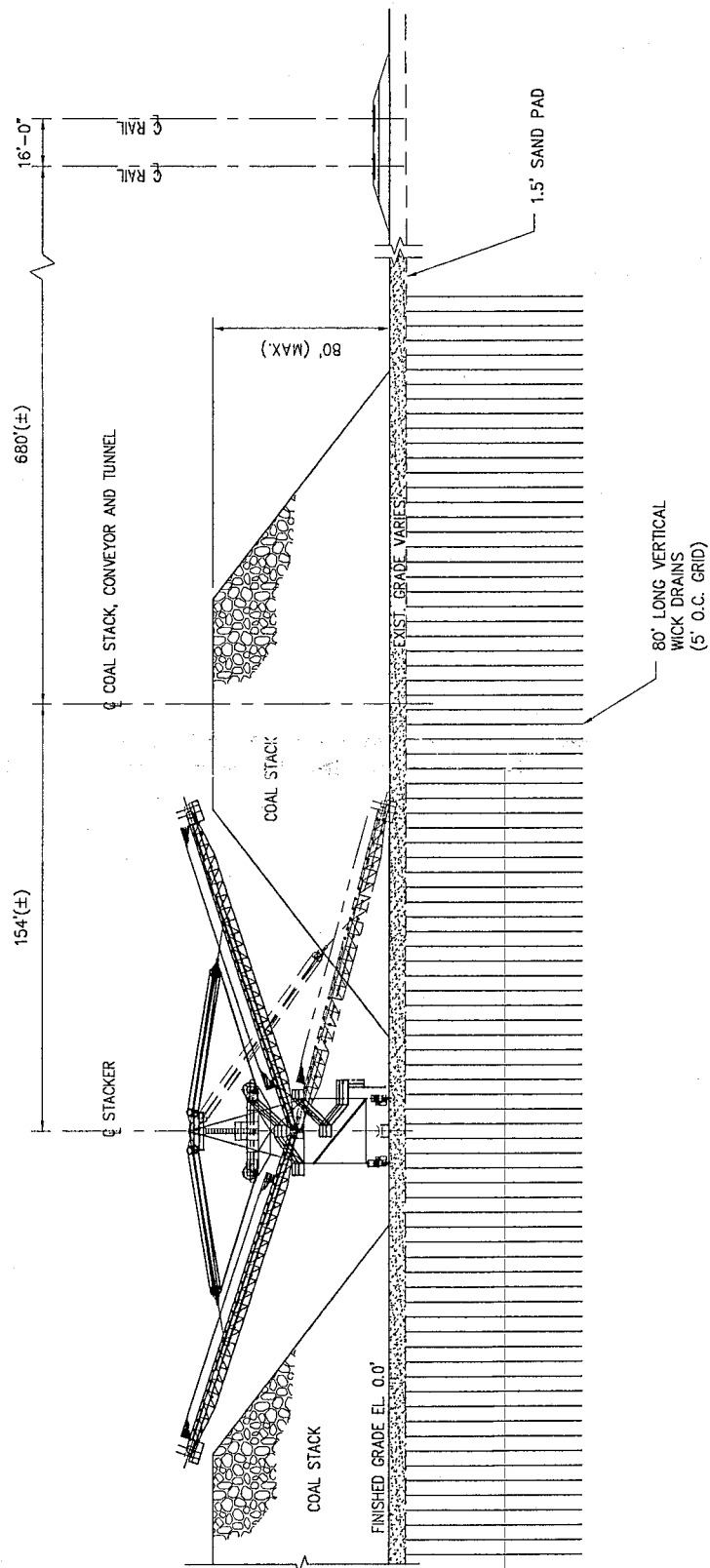
RAM TERMINALS, LLC

LOUISIANA

COAL EXPORT FACILITY
SECTION AT OUTBOUND CONVEYOR

DATE MARCH '12
DESIGN ARF
DRAWN DP
CHECK JEJ
CONTRACT 8733
SHEET No.

13 OF 26



F
P06

SECTION @ COAL STACKER, TUNNEL & RAIL

N.T.S.

8733-P14



LANIER & ASSOCIATES
CONSULTING ENGINEERS
INCORPORATED

NEW ORLEANS, LA • BEAUMONT, TX

MYRTLE GROVE

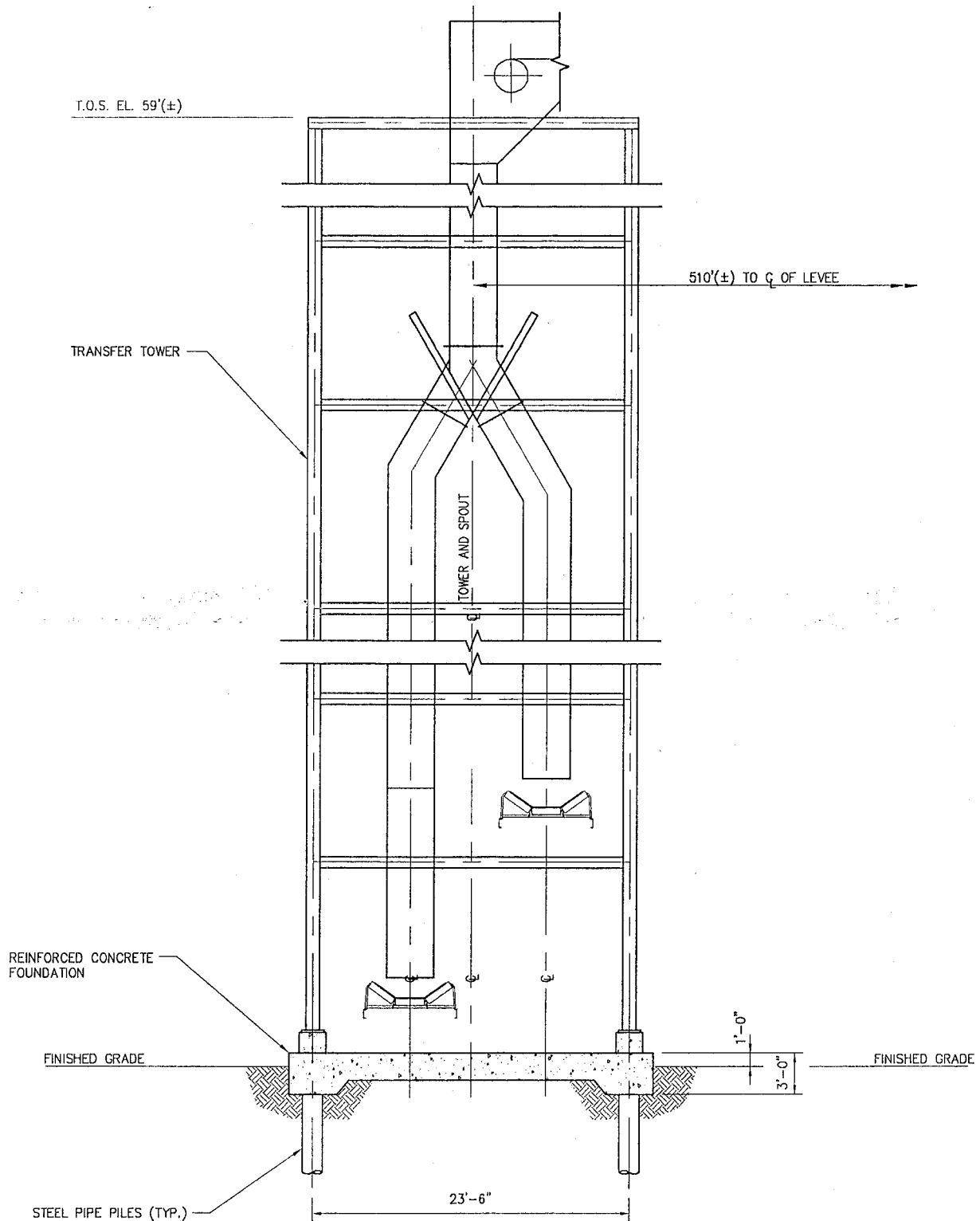
RAM TERMINALS, LLC

LOUISIANA

COAL EXPORT FACILITY
SECTION @ COAL STACKER & RAIL

DATE MARCH '12
DESIGN ARF
DRAWN JJF
CHECK JEJ
CONTRACT 8733
SHEET No.

14 OF 26



TRANSFER TOWER SECTION

SCALE: 3/32" = 1'-0" (LOOKING UPRIVER)

G

P06

8733-P15



LANIER & ASSOCIATES
CONSULTING ENGINEERS
INCORPORATED

NEW ORLEANS, LA • BEAUMONT, TX

RAM TERMINALS, LLC

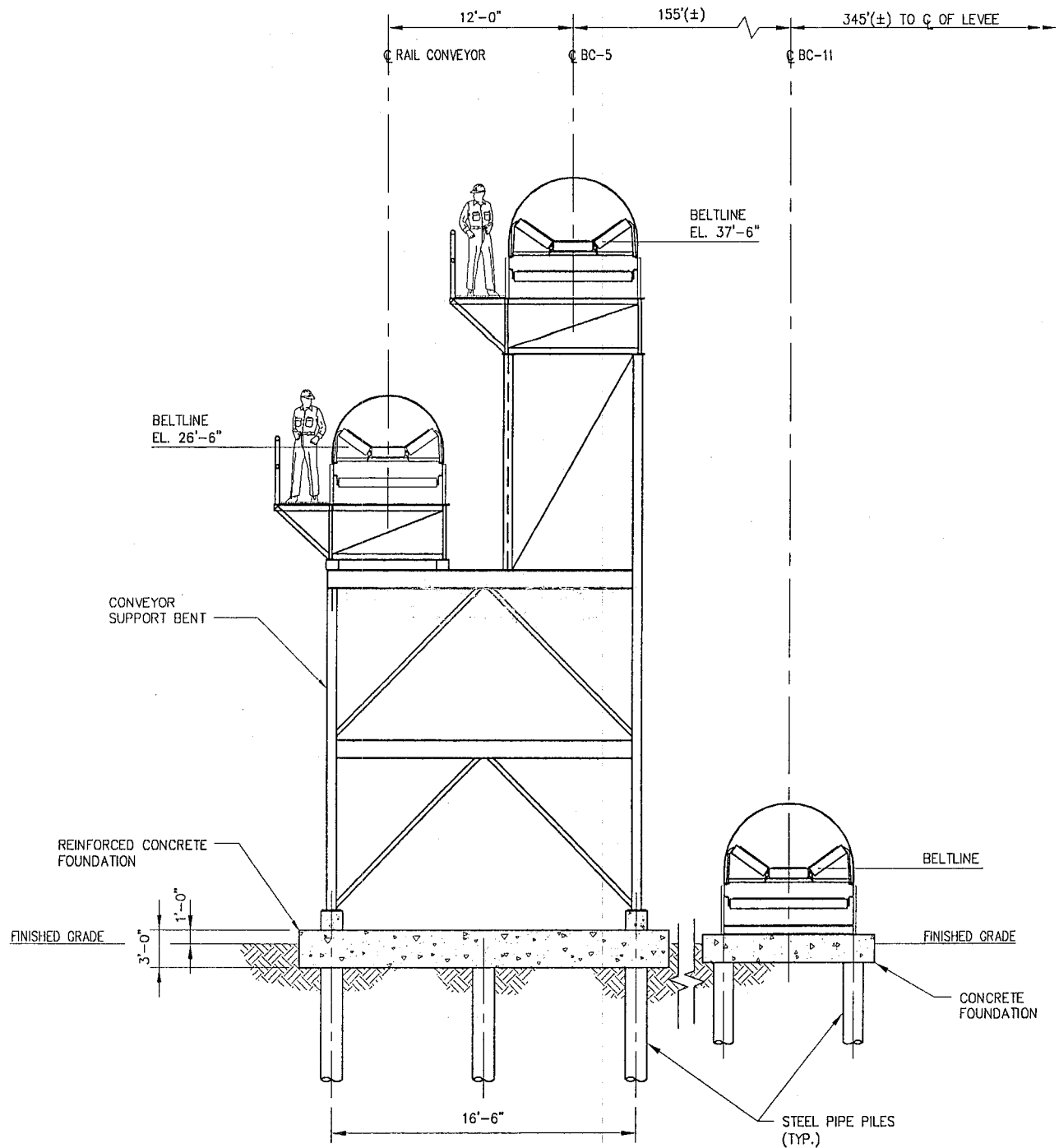
MYRTLE GROVE

LOUISIANA

**COAL EXPORT FACILITY
TRANSFER TOWER SECTION**

DATE MARCH '12
DESIGN ARF
DRAWN JJF
CHECK JEJ
CONTRACT 8733
SHEET No.

15 OF 26



CONVEYOR, SUPPORT AND FOUNDATIONS

SCALE: 1/8" = 1'-0" (LOOKING UPRIVER)

H
P06

8733-P16



LANIER & ASSOCIATES
CONSULTING ENGINEERS
INCORPORATED

NEW ORLEANS, LA • BEAUMONT, TX

MYRTLE GROVE

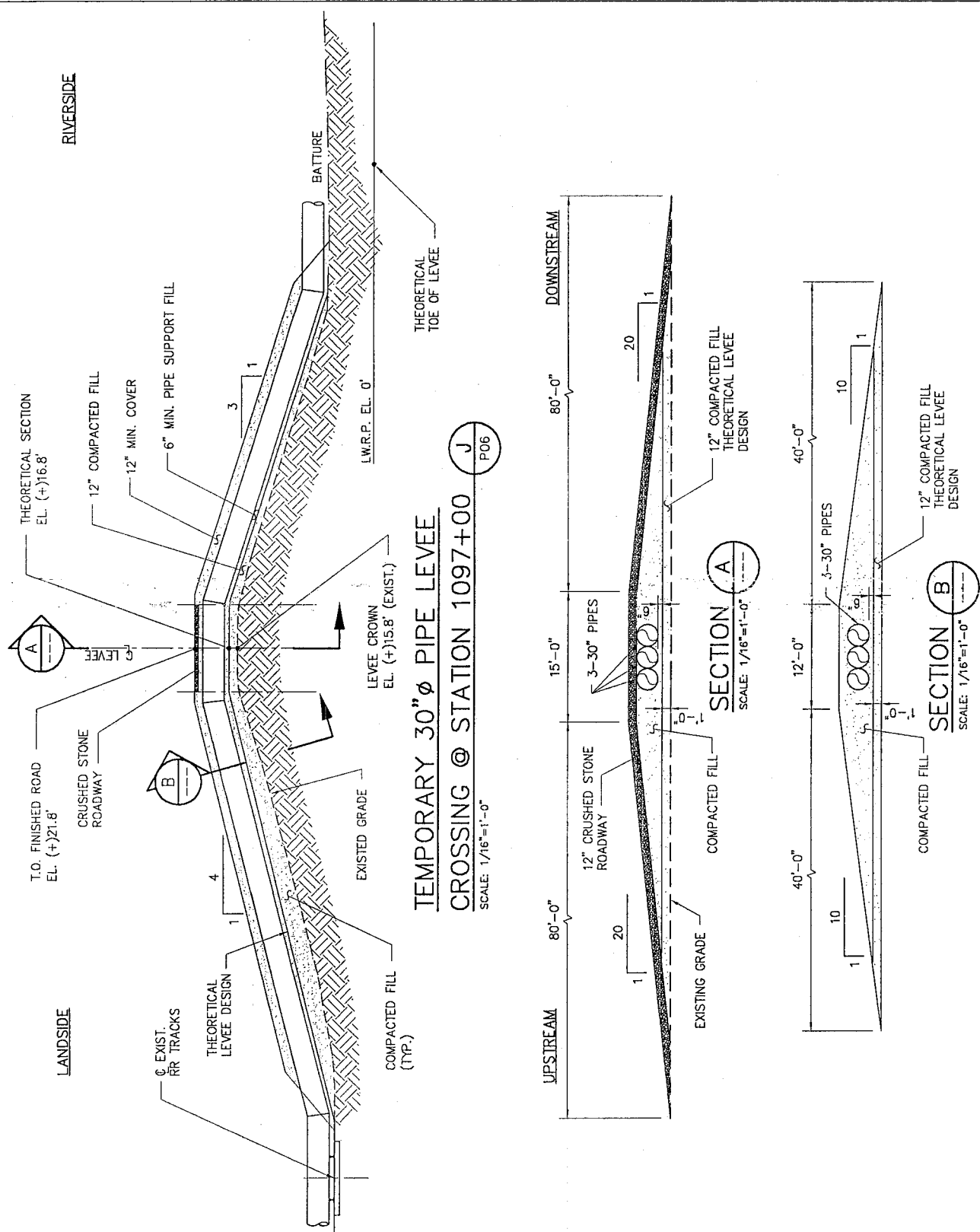
RAM TERMINALS, LLC

LOUISIANA

COAL EXPORT FACILITY
CONVEYOR, SUPPORT AND FOUNDATIONS

DATE MARCH '12
DESIGN ARF
DRAWN JJF
CHECK JEJ
CONTRACT 8733
SHEET No.

16 OF 26



8733-P17



LANIER & ASSOCIATES
 CONSULTING ENGINEERS
 INCORPORATED

NEW ORLEANS, LA • BEAUMONT, TX

MYRTLE GROVE

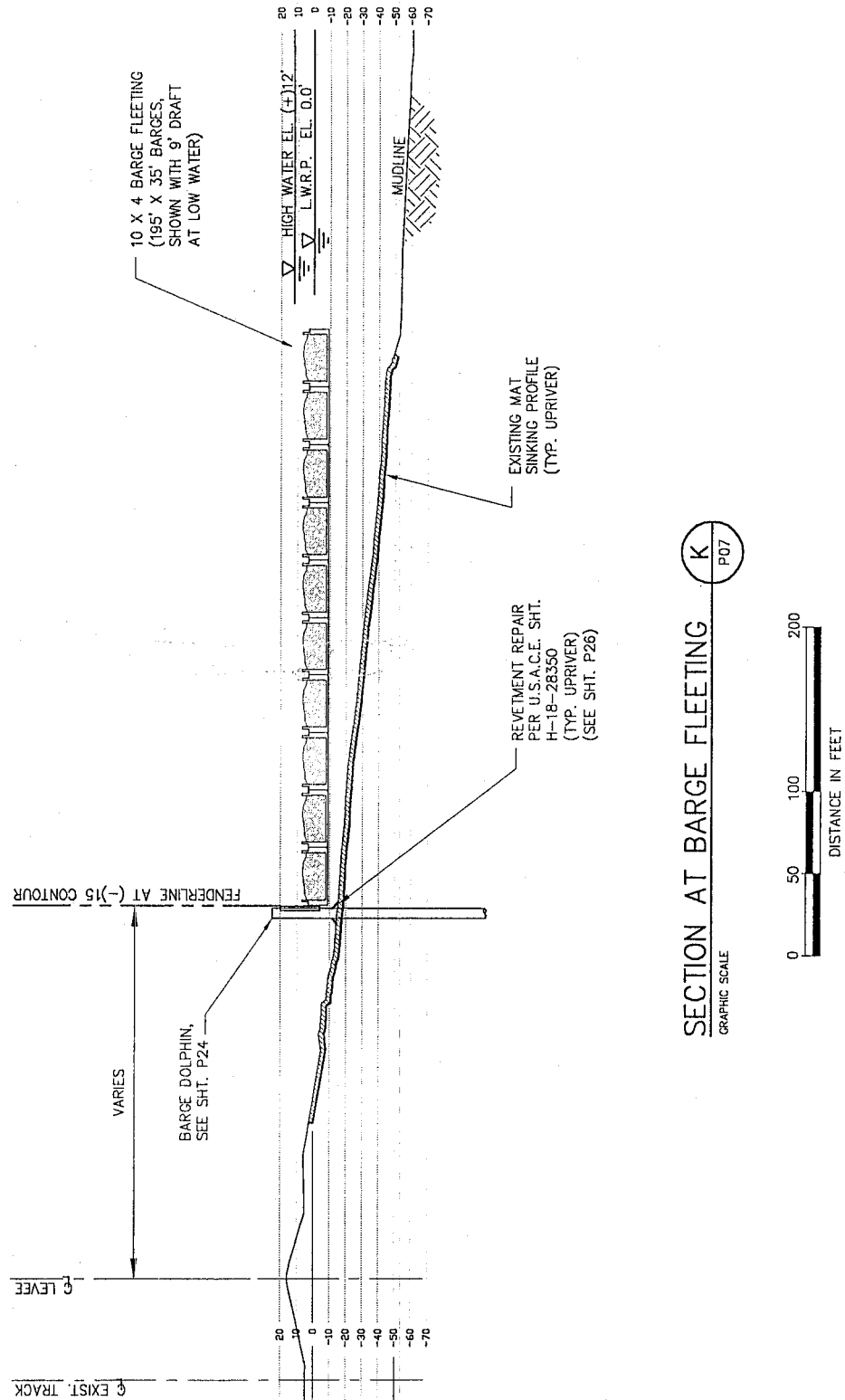
RAM TERMINALS, LLC

LOUISIANA

COAL EXPORT FACILITY
TEMPORARY LEVEE CROSSING SECTIONS

DATE MARCH '12
 DESIGN ARF
 DRAWN MEW
 CHECK JEJ
 CONTRACT 8733
 SHEET No.

17 OF 26



8733-P18



LANIER & ASSOCIATES
CONSULTING ENGINEERS
INCORPORATED

NEW ORLEANS, LA • BEAUMONT, TX

RAM TERMINALS, LLC

MYRTLE GROVE

LOUISIANA

**COAL EXPORT FACILITY
SECTION AT BARGE FLEETING**

DATE MARCH '12
DESIGN ARF
DRAWN DP
CHECK JEJ
CONTRACT 8733
SHEET No.

18 OF 26

THIS PAGE INTENTIONALLY LEFT BLANK

8733-P19



LANIER & ASSOCIATES
CONSULTING ENGINEERS
INCORPORATED

NEW ORLEANS, LA · BEAUMONT, TX

MYRTLE GROVE

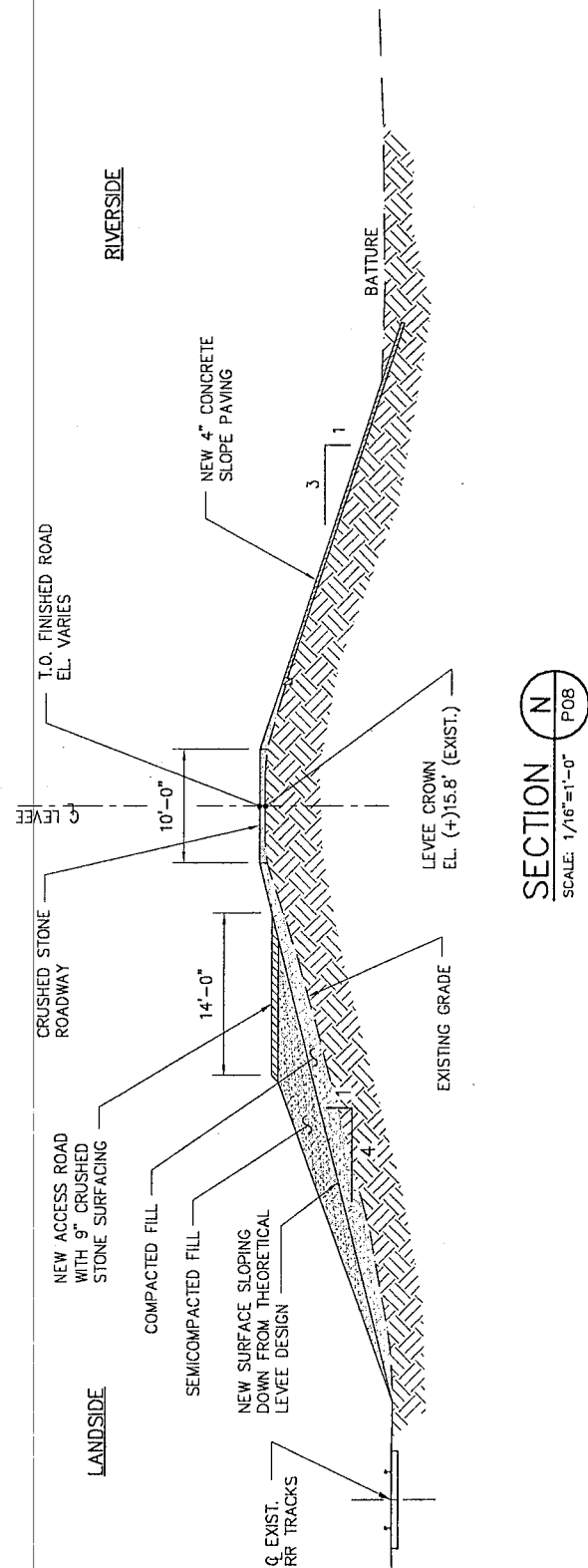
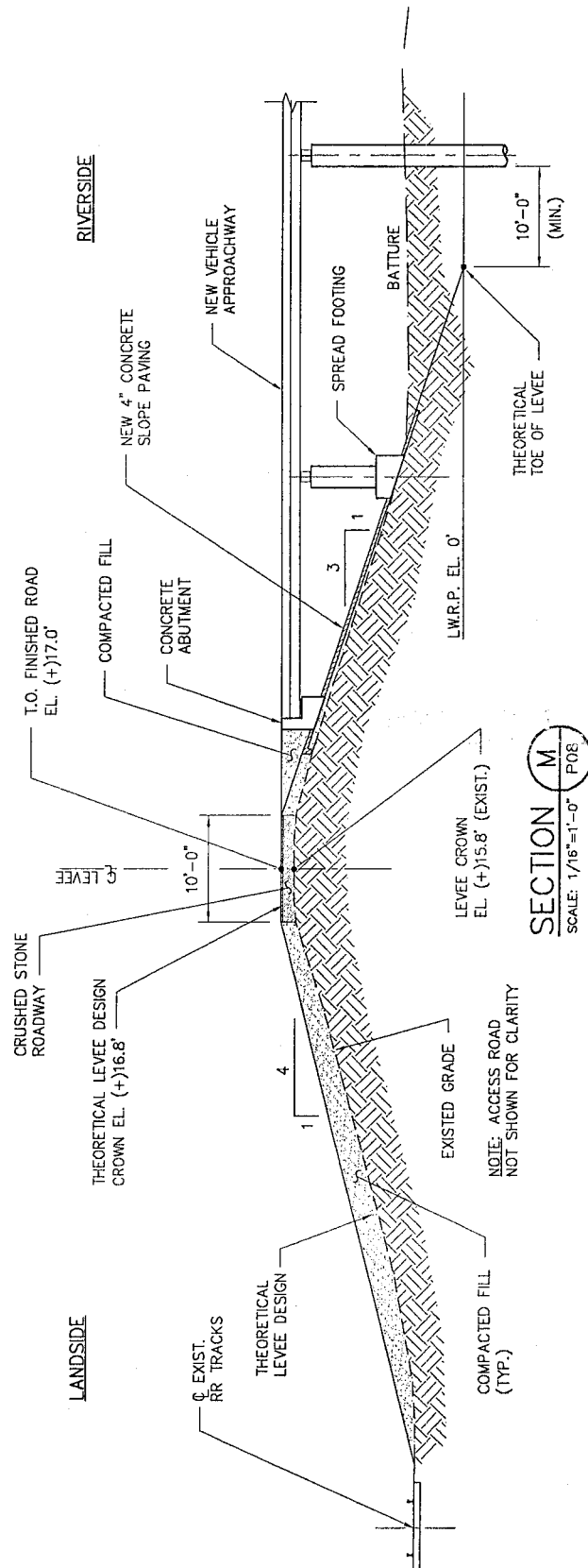
RAM TERMINALS, LLC

LOUISIANA

COAL EXPORT FACILITY
INTENTIONALLY LEFT BLANK

DATE MARCH '12
DESIGN ARF
DRAWN DP
CHECK JEJ
CONTRACT 8733
SHEET No.

19 OF 25



8733-P20



LANIER & ASSOCIATES
CONSULTING ENGINEERS
INCORPORATED

NEW ORLEANS, LA • BEAUMONT, TX

MYRTLE GROVE

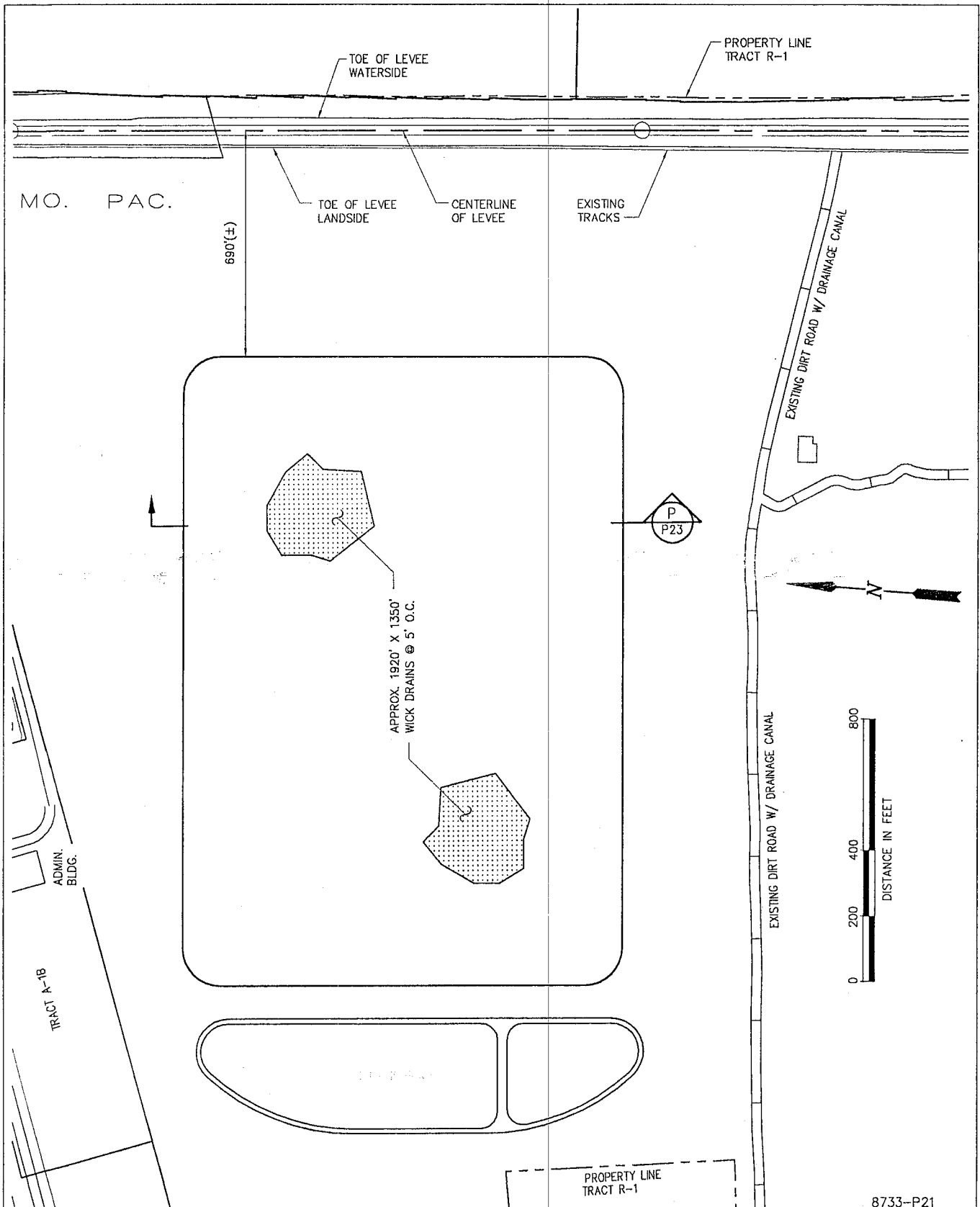
RAM TERMINALS, LLC

LOUISIANA

**COAL EXPORT FACILITY
LEVEE CROSSING SECTIONS**

DATE MARCH '12
DESIGN ARF
DRAWN JJF
CHECK JEJ
CONTRACT 8733
SHEET No.

20 OF 26



8733-P21



LANIER & ASSOCIATES
CONSULTING ENGINEERS
INCORPORATED

NEW ORLEANS, LA • BEAUMONT, TX

MYRTLE GROVE

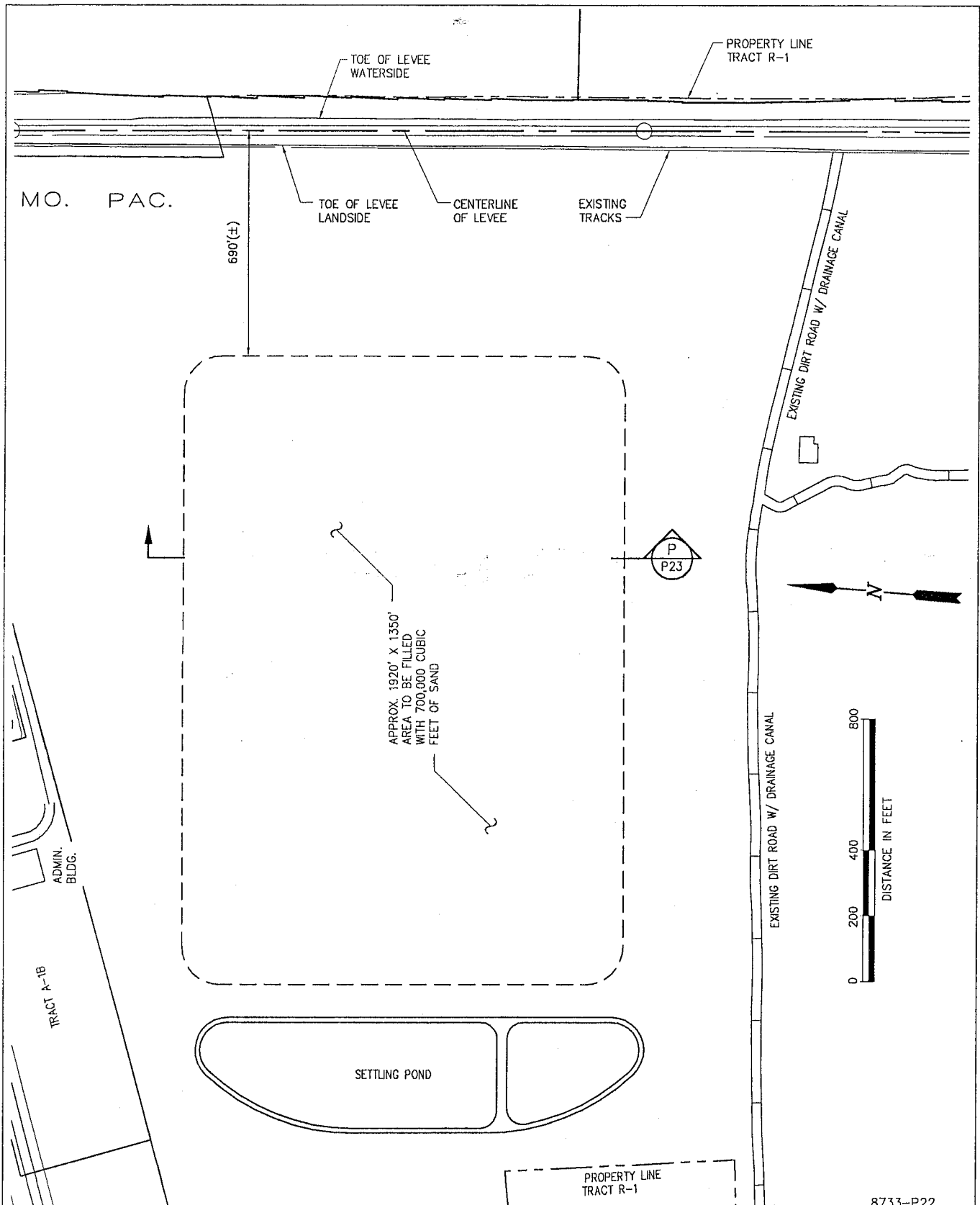
RAM TERMINALS, LLC

LOUISIANA


COAL EXPORT FACILITY
COAL STORAGE - WICK LOCATIONS PLAN

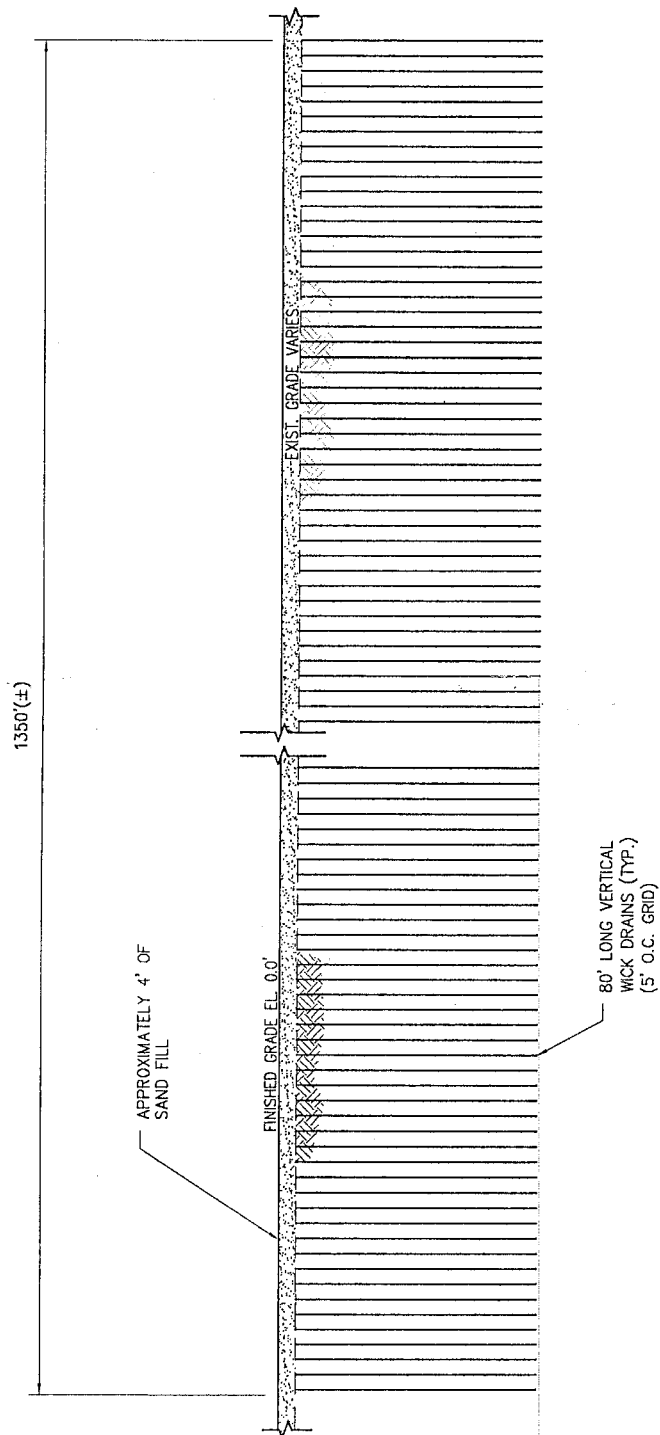
DATE MARCH '12
DESIGN ARF
DRAWN JJF
CHECK JEJ
CONTRACT 8733
SHEET No.

21 OF 26



8733-P22

 <p>LANIER & ASSOCIATES CONSULTING ENGINEERS INCORPORATED NEW ORLEANS, LA • BEAUMONT, TX</p>	<p>RAM TERMINALS, LLC MYRTLE GROVE LOUISIANA</p>	<p>DATE MARCH '12 DESIGN ARF DRAWN JJF CHECK JEJ CONTRACT 8733 SHEET No. 22 OF 26</p>
	<p>COAL EXPORT FACILITY PROPOSED FILL AREA</p>	



SECTION @ FILL AREA
N.T.S.

P P
P21 P22

8733-P23



LANIER & ASSOCIATES
CONSULTING ENGINEERS
INCORPORATED

NEW ORLEANS, LA • BEAUMONT, TX

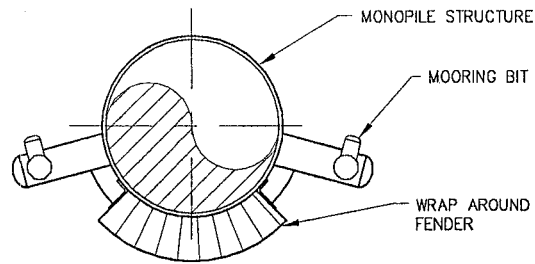
RAM TERMINALS, LLC
MYRTLE GROVE

LOUISIANA

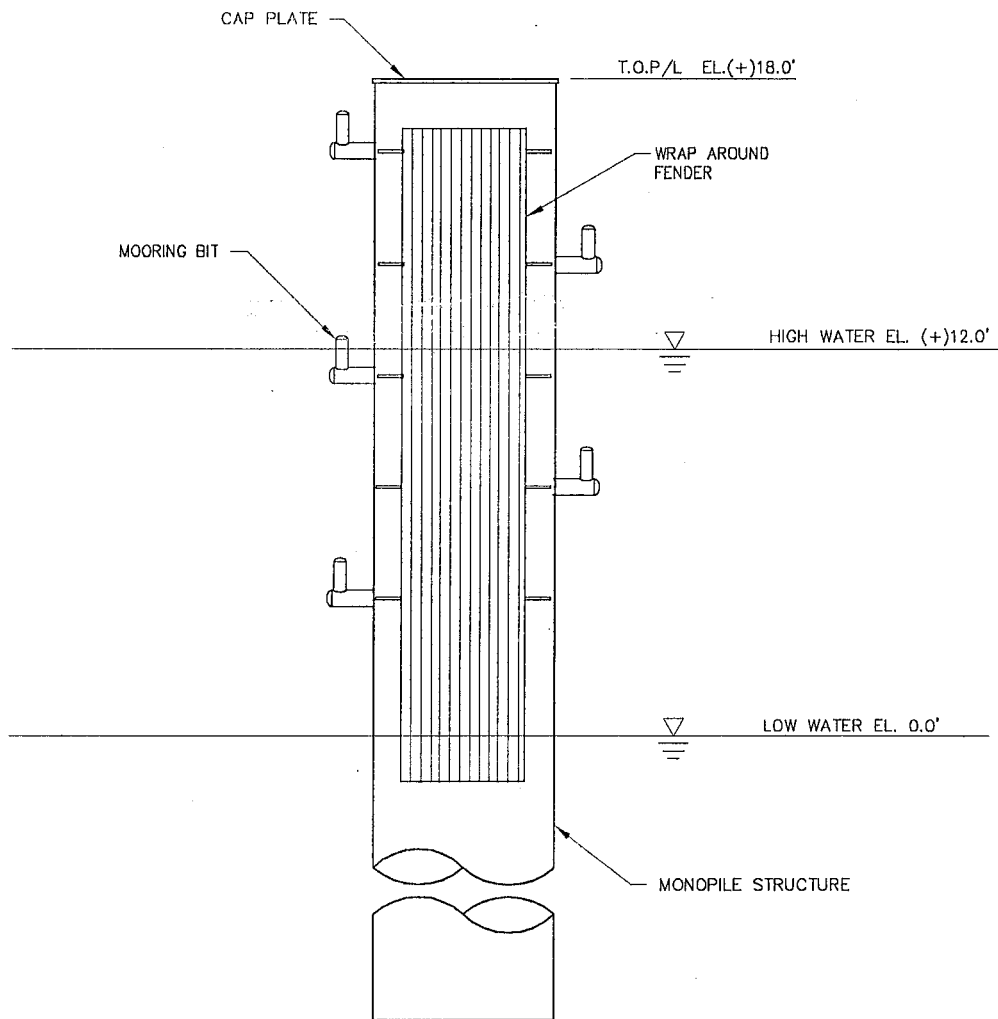
COAL EXPORT FACILITY
SECTION @ COAL STACKER & RAIL

DATE MARCH '12
DESIGN ARF
DRAWN JJF
CHECK JEJ
CONTRACT 8733
SHEET No.

23 OF 26



BARGE DOLPHIN PLAN
N.T.S.



BARGE DOLPHIN ELEVATION
N.T.S. (34 REQ'D)

8733-P24



LANIER & ASSOCIATES
CONSULTING ENGINEERS
INCORPORATED

NEW ORLEANS, LA • BEAUMONT, TX

MYRTLE GROVE

RAM TERMINALS, LLC

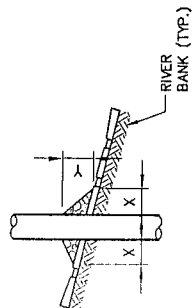
LOUISIANA

COAL EXPORT FACILITY
BARGE FLEETING DOLPHIN

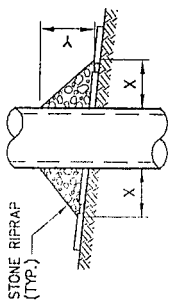
DATE MARCH '12
DESIGN ARF
DRAWN JJF
CHECK JJJ
CONTRACT 8733
SHEET No.

24 OF 26

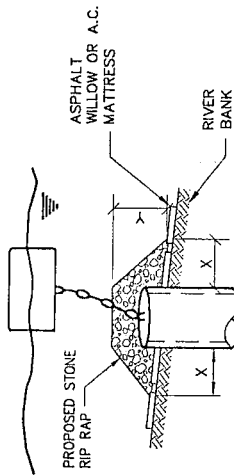
PILE



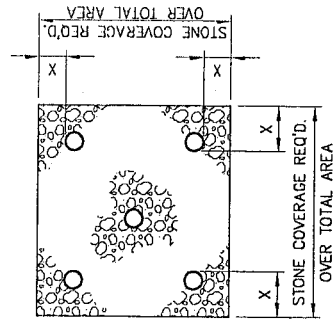
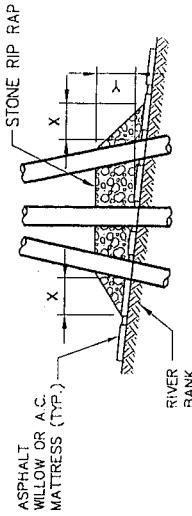
CAISSON



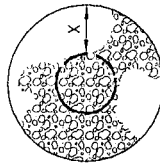
SPUD PILE
WITH BUOY AND ANCHOR CHAIN



PILE CLUSTER



ELEVATION



PLAN

NOTES:

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

DEPTH OF WATER IN FEET AT POINT OF PENETRATION AT TIME OF STONE PLACEMENT	DIMENSIONS IN FEET FOR PROTECTION AREA REQUIRED					
	PILE	CAISSON	SPUD PILE W/ ANCHOR CHAIN & BUOY	PILE CLUSTER	PILE CLUSTER	PILE CLUSTER
1 TO 10	3	1 1/2	5	2	3	1
11 TO 40	5	2	8	3	7	2
41 TO 60	8	3	12	4	12	3

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

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

DEC. 1987

FILE NO. H-18-28350

LANIER & ASSOCIATES
CONSULTING ENGINEERS, INC.
1000 PINE BLVD., SUITE 100
HOUSTON, TEXAS 77001

DES. NO. 8713 CAD. NO. 8713-1-26 E. & A. DWS. 10/26 OF 26