



Rio Grande LNG, LLC, & Rio Bravo Pipeline, LLC
 SWG-2015-00114 Sheet 60 of 102.
 Wetlands and Brownsville Ship Channel, Kleberg,
 Jim Wells, Willacy, and Cameron Counties, TX.



DIRECTIONS FROM BROWNSVILLE SOUTH PADRE ISLAND AIRPORT TO PROJECT LOCATION:

HEAD NORTH TOWARD AMELIA EARHART DR. TURN RIGHT ONTO AMELIA EARHART DR. THEN TURN LEFT ONTO LES MAULDIN RD AND RIGHT ONTO S IOWA AVE. AFTER 0.5 MI TURN RIGHT ONTO BOCA CHICA BLVD AND THEN LEFT ONTO N MINNESOTA AVE. AFTER 1.7 MI TURN RIGHT ONTO TX-48 E/E 14TH ST. FOLLOW TX-48 E/E 14TH ST FOR APPROXIMATELY 12.8 MI. THE PROJECT LOCATION WILL BE ON THE RIGHT SIDE.

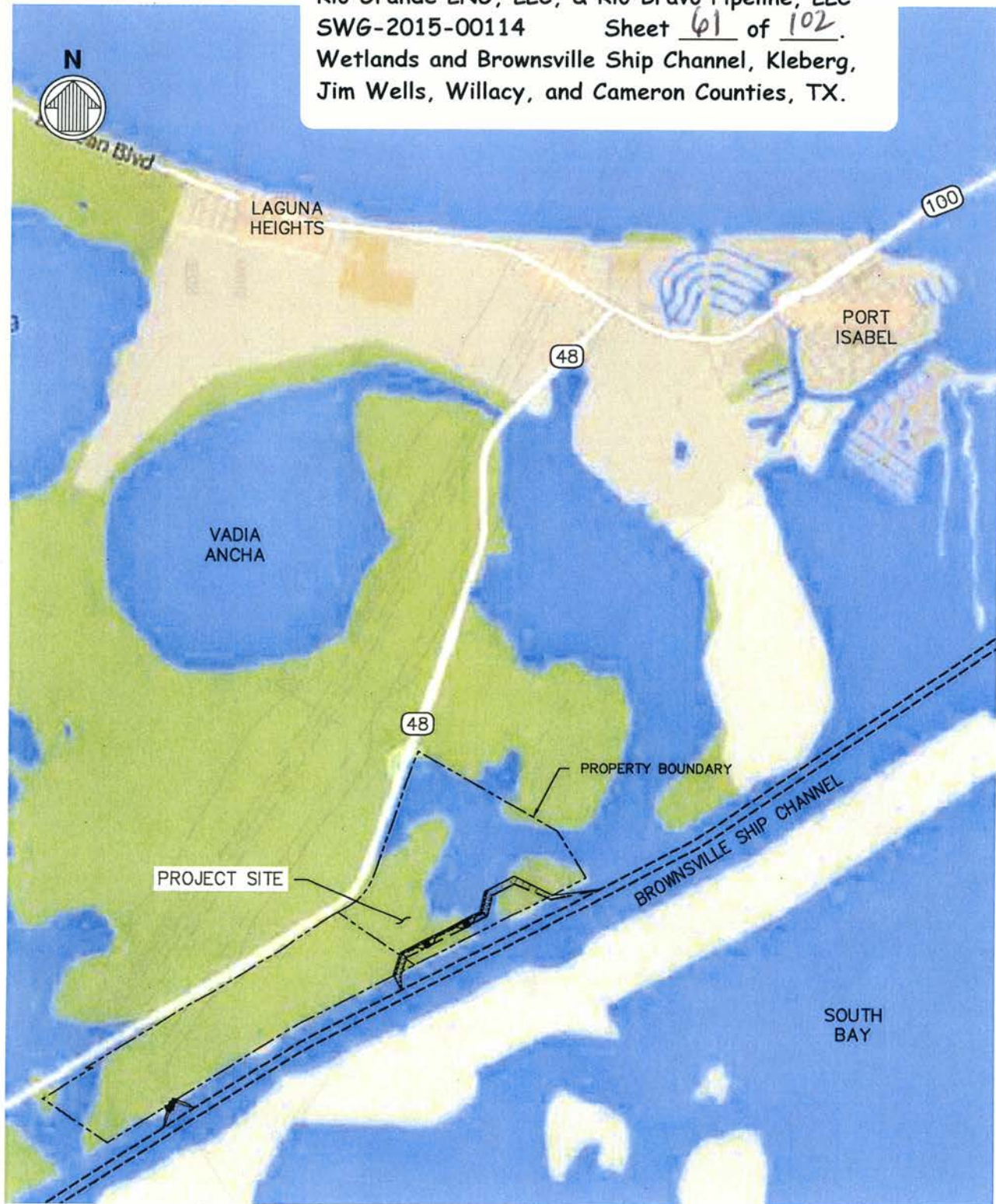
PURPOSE:
 RIO GRANDE LNG TERMINAL
 DATUM: NAVD 88

VICINITY MAP
 NOT TO SCALE
 STATE OF TEXAS
 CAMERON COUNTY

RIO GRANDE LNG TERMINAL
 BROWNSVILLE, TX
 APPLICATION BY:
 RIO GRANDE LNG, LLC
 SHEET 2 OF 48 DATE: 4/8/16

APR 13 2018

Rio Grande LNG, LLC, & Rio Bravo Pipeline, LLC
SWG-2015-00114 Sheet 61 of 102.
Wetlands and Brownsville Ship Channel, Kleberg,
Jim Wells, Willacy, and Cameron Counties, TX.



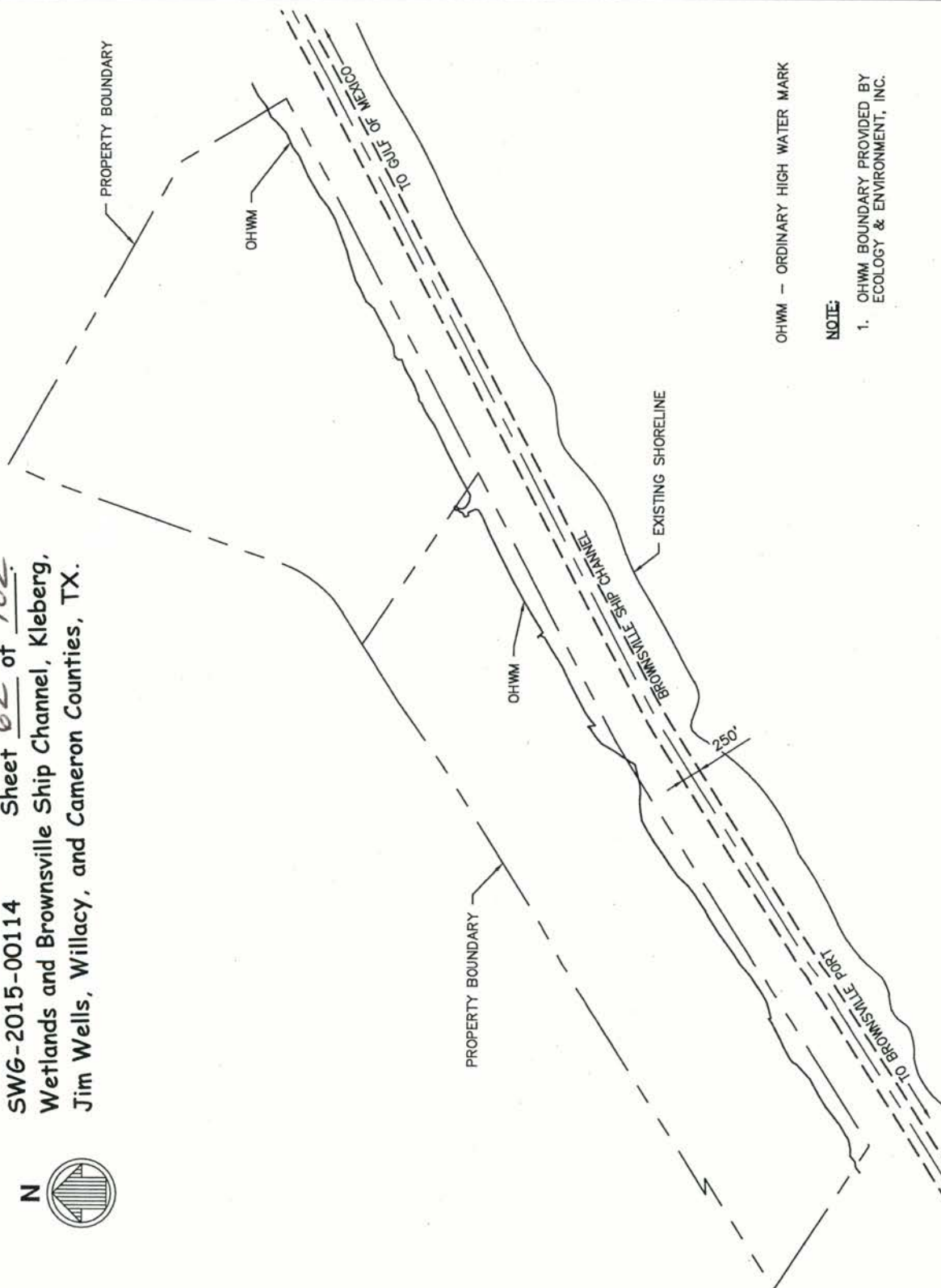
PURPOSE:
RIO GRANDE LNG TERMINAL
DATUM: NAVD 88

LOCATION MAP

NOT TO SCALE
STATE OF TEXAS
CAMERON COUNTY

RIO GRANDE LNG TERMINAL
BROWNSVILLE, TX
APPLICATION BY:
RIO GRANDE LNG, LLC
SHEET 3 OF 48 DATE: 4/8/16

Rio Grande LNG, LLC, & Rio Bravo Pipeline, LLC
 SWG-2015-00114 Sheet 62 of 102
 Wetlands and Brownsville Ship Channel, Kleberg,
 Jim Wells, Willacy, and Cameron Counties, TX.



OHWM - ORDINARY HIGH WATER MARK

NOTE:

1. OHWM BOUNDARY PROVIDED BY ECOLOGY & ENVIRONMENT, INC.

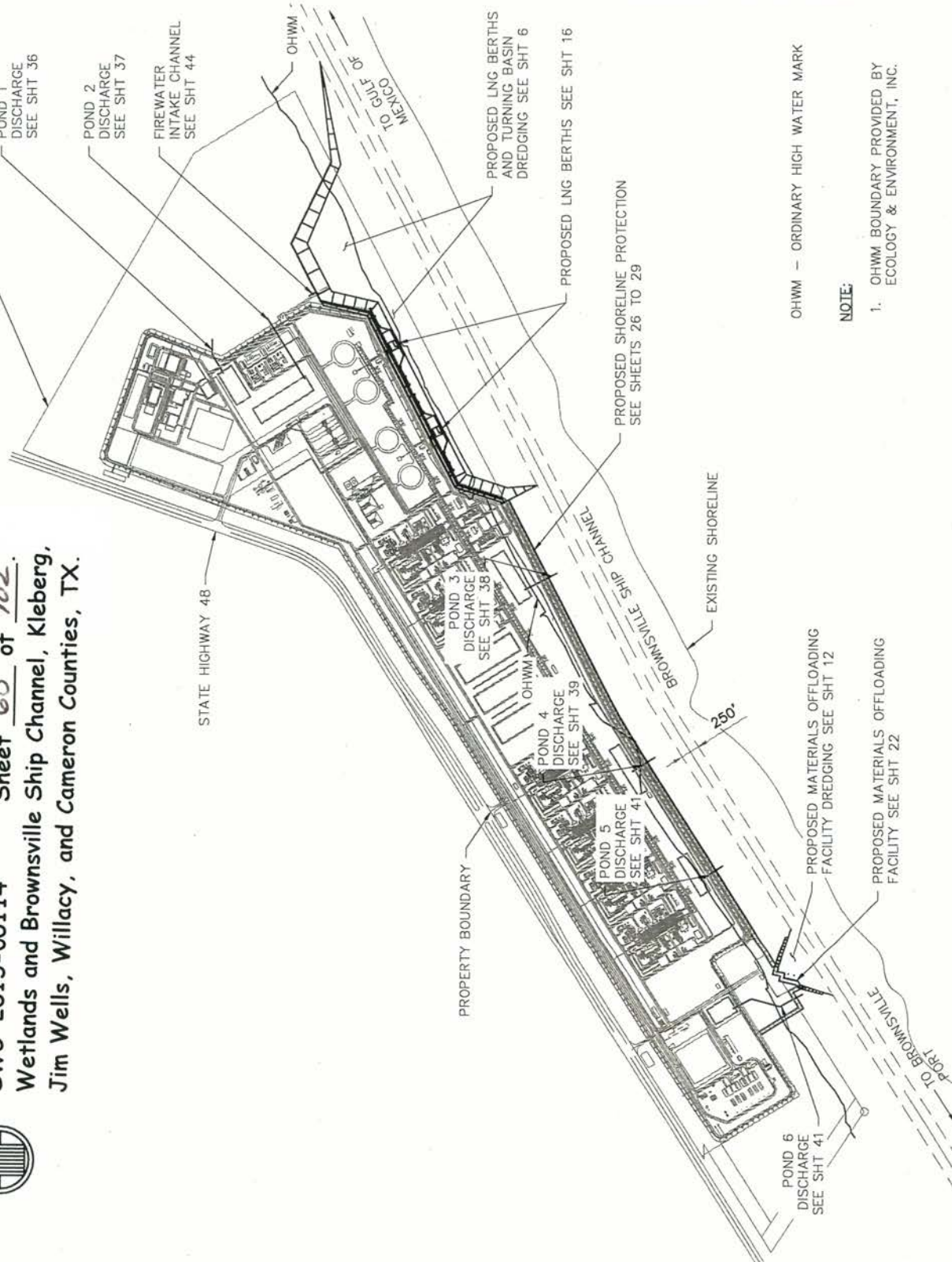
PURPOSE:
 RIO GRANDE LNG TERMINAL
 DATUM: NAVD 88

EXISTING SITE PLAN
 0 2000 4000
 1" = 2000'
 STATE OF TEXAS
 CAMERON COUNTY

RIO GRANDE LNG TERMINAL
 BROWNSVILLE, TX
 APPLICATION BY:
 RIO GRANDE LNG, LLC
 SHEET 4 OF 48 DATE: 4/8/16



Rio Grande LNG, LLC, & Rio Bravo Pipeline, LLC
 SWG-2015-00114 Sheet 63 of 102.
 Wetlands and Brownsville Ship Channel, Kleberg,
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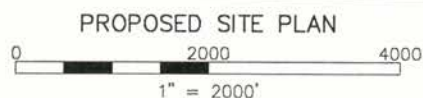


OHWM - ORDINARY HIGH WATER MARK

NOTE:

1. OHWM BOUNDARY PROVIDED BY ECOLOGY & ENVIRONMENT, INC.

PURPOSE:
 RIO GRANDE LNG TERMINAL
 DATUM: NAVD 88

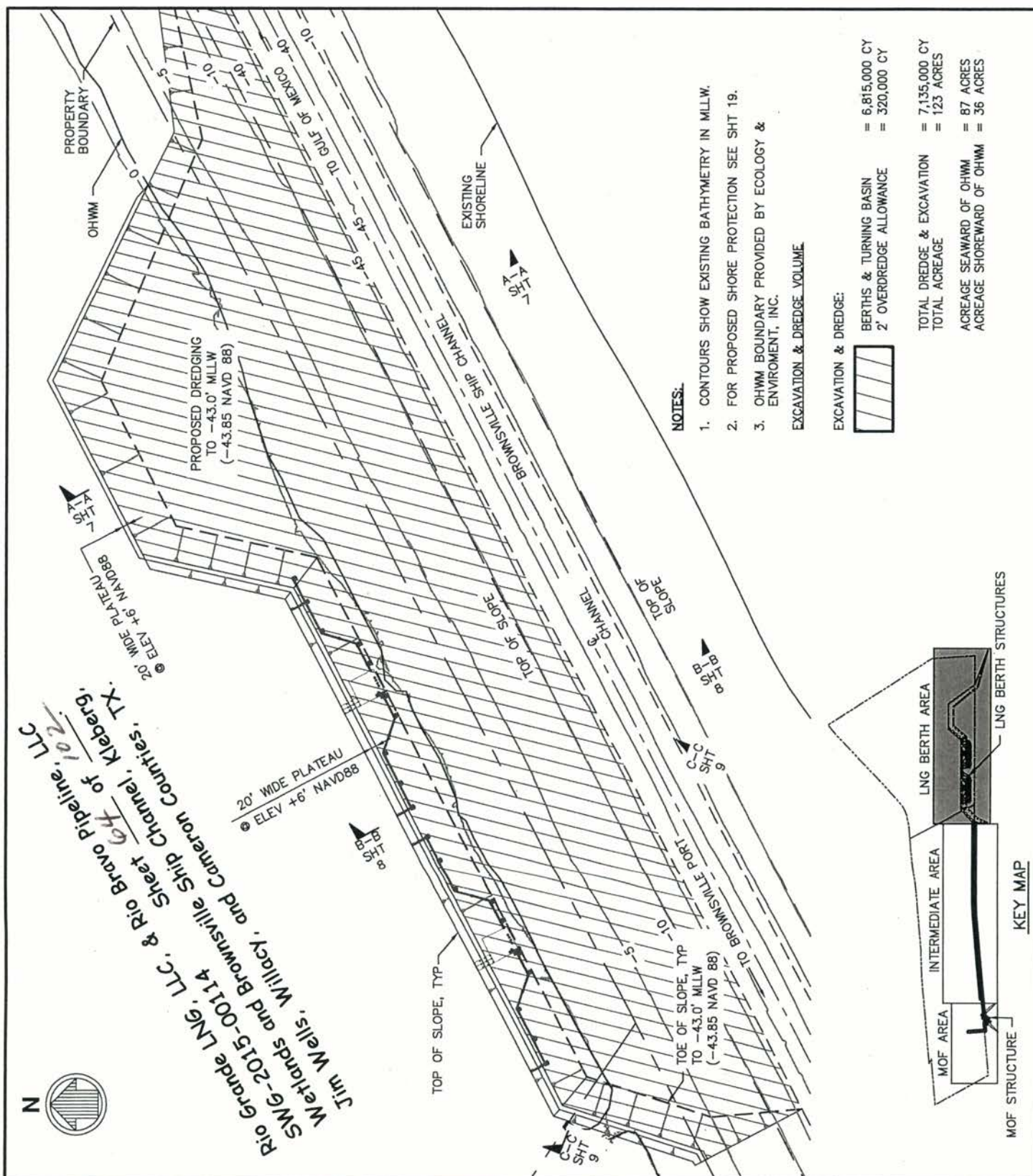


STATE OF TEXAS
 CAMERON COUNTY

RIO GRANDE LNG TERMINAL
 BROWNSVILLE, TX

APPLICATION BY:
 RIO GRANDE LNG, LLC

SHEET 5 OF 48 DATE: 2/28/18



PURPOSE:
RIO GRANDE LNG TERMINAL
DATUM: NAVD 88

LNG BERTHS AND TURNING BASIN DREDGE PLAN

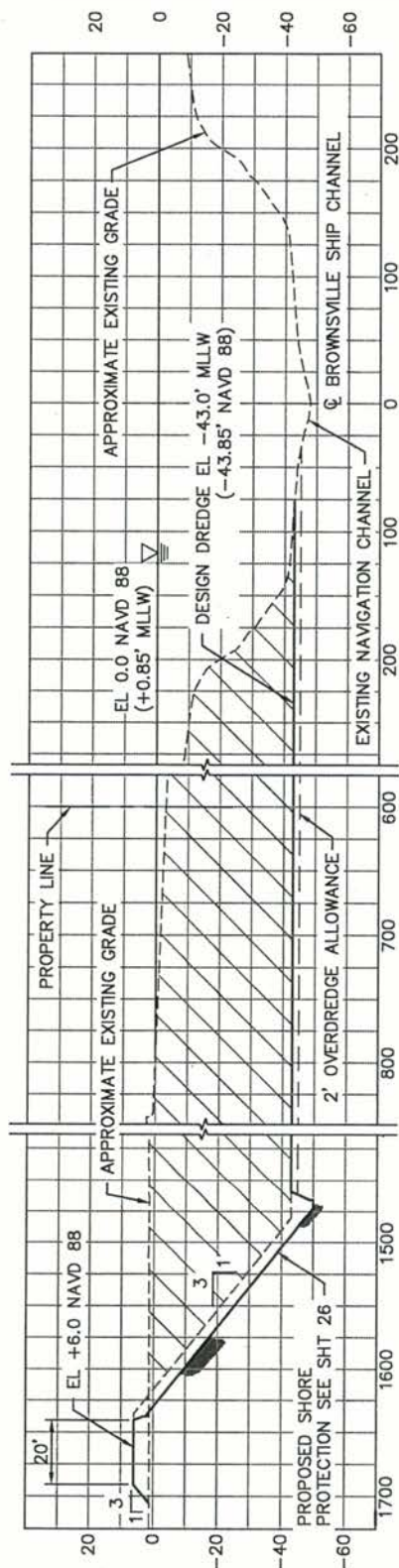
0 600 1200

1" = 600'

STATE OF TEXAS
CAMERON COUNTY

RIO GRANDE LNG TERMINAL
BROWNSVILLE, TX
APPLICATION BY:
RIO GRANDE LNG, LLC
SHEET 6 OF 48 DATE: 6/17/16

Rio Grande LNG, LLC, & Rio Bravo Pipeline, LLC
 SWG-2015-00114 Sheet 65 of 102.
 Wetlands and Brownsville Ship Channel, Kleberg,
 Jim Wells, Willacy, and Cameron Counties, TX.



NOTES:

1. DIMENSIONS SHOWN IN FEET.
2. VERTICAL DATUM BASED ON NAVD 88.

SECTION A-A

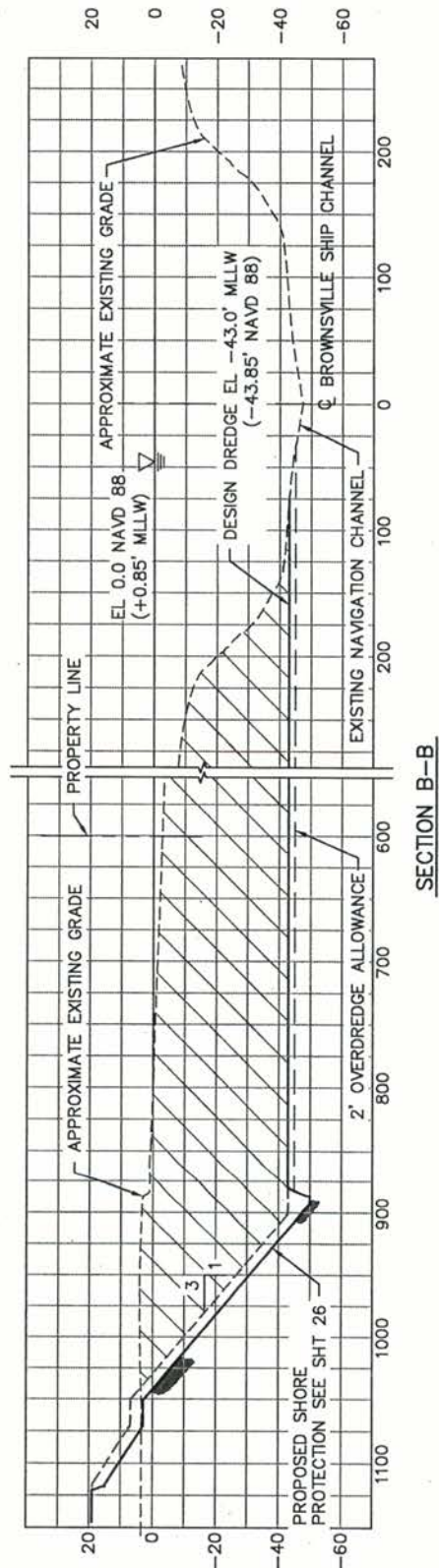
PURPOSE:
 RIO GRANDE LNG TERMINAL
 DATUM: NAVD 88

DREDGE SECTIONS SHEET 1 OF 3
 0 60 / 150 120 / 300
 VERT 1" = 60' / HORZ 1" = 150'
 STATE OF TEXAS
 CAMERON COUNTY

RIO GRANDE LNG TERMINAL
 BROWNSVILLE, TX
 APPLICATION BY:
 RIO GRANDE LNG, LLC
 SHEET 7 OF 48 DATE: 4/8/16

APR 13 2018

Rio Grande LNG, LLC, & Rio Bravo Pipeline, LLC
 SWG-2015-00114 Sheet 66 of 102
 Wetlands and Brownsville Ship Channel, Kleberg,
 Jim Wells, Willacy, and Cameron Counties, TX.



NOTES:

1. DIMENSIONS SHOWN IN FEET.
2. VERTICAL DATUM BASED ON NAVD 88.

PURPOSE:
 RIO GRANDE LNG TERMINAL
 DATUM: NAVD 88

DREDGE SECTIONS SHEET 2 OF 3
 0 60 / 150 120 / 300
 VERT 1" = 60' / HORZ 1" = 150'
 STATE OF TEXAS
 CAMERON COUNTY

RIO GRANDE LNG TERMINAL
 BROWNVILLE, TX
 APPLICATION BY:
 RIO GRANDE LNG, LLC
 SHEET 8 OF 48 DATE: 4/8/16

Rio Grande LNG, LLC, & Rio Bravo Pipeline, LLC
 SWG-2015-00114 Sheet 67 of 102
 Wetlands and Brownsville Ship Channel, Kleberg,
 Jim Wells, Willacy, and Cameron Counties, TX.



NOTES:

1. DIMENSIONS SHOWN IN FEET.
2. VERTICAL DATUM BASED ON NAVD 88.

PURPOSE:
 RIO GRANDE LNG TERMINAL
 DATUM: NAVD 88

DREDGE SECTIONS SHEET 3 OF 3
 0 60' / 150' 120' / 300'
 VERT 1" = 60' / HORIZ 1" = 150'
 STATE OF TEXAS
 CAMERON COUNTY

RIO GRANDE LNG TERMINAL
 BROWNSVILLE, TX
 APPLICATION BY:
 RIO GRANDE LNG, LLC
 SHEET 9 OF 48 DATE: 4/8/16

Rio Grande LNG, LLC, & Rio Bravo Pipeline, LLC
 SWG-2015-00114 Sheet 68 of 102
 Wetlands and Brownsville Ship Channel, Kleberg,
 Jim Wells, Willacy, and Cameron Counties, TX.



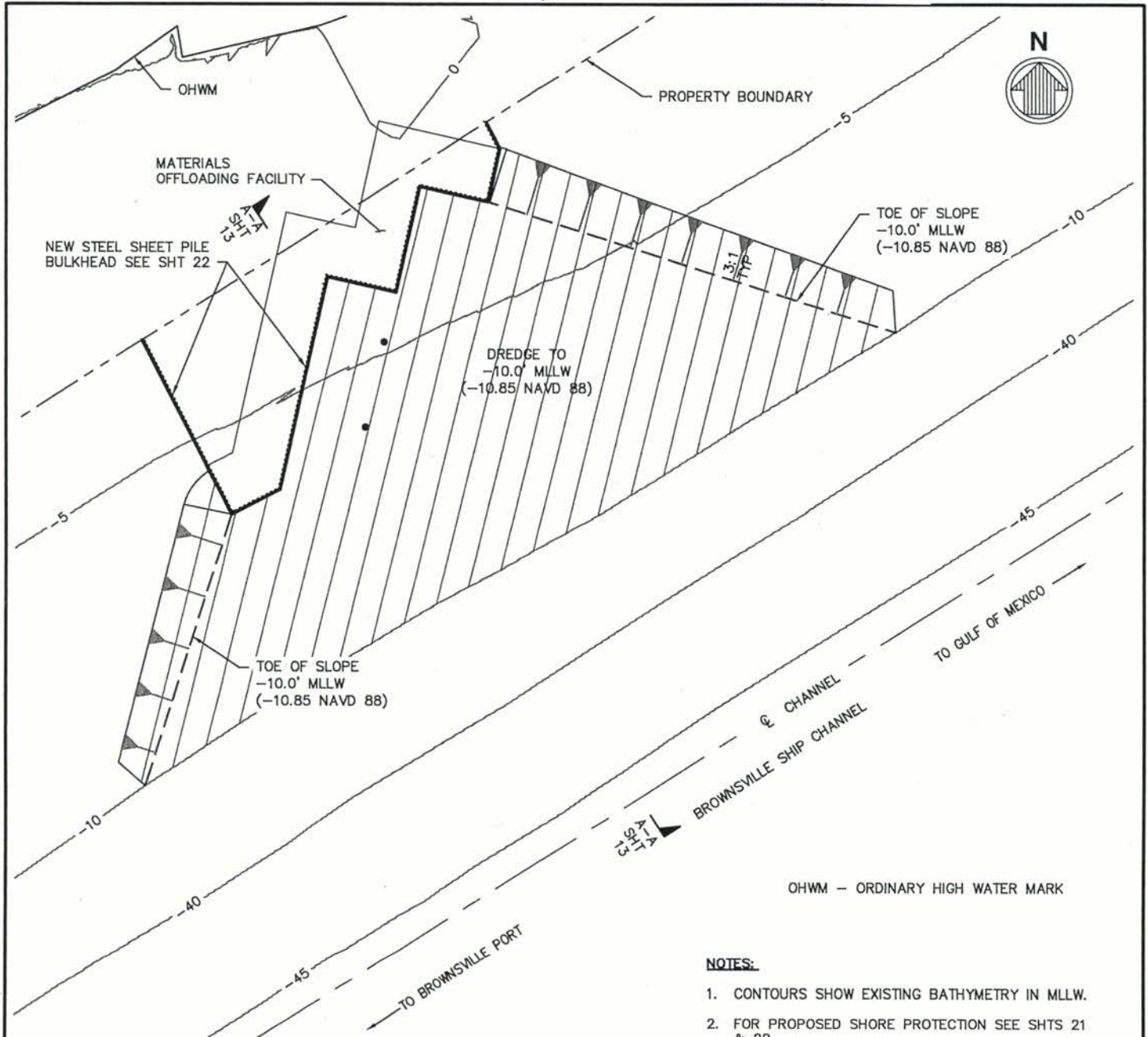
LEGEND:

— PIPELINE FROM LNG BERTH TO PLACEMENT AREA

PURPOSE:
 RIO GRANDE LNG TERMINAL
 DATUM: NAVD 88

LNG BERTHS DREDGE MATERIAL
 PLACEMENT AREA — ALT. 2 (PA 5A/5B)
 NOT TO SCALE
 STATE OF TEXAS
 CAMERON COUNTY

RIO GRANDE LNG TERMINAL
 BROWNSVILLE, TX
 APPLICATION BY:
 RIO GRANDE LNG, LLC
 SHEET 11 OF 48 DATE: 2/28/18



OHWM — ORDINARY HIGH WATER MARK

NOTES:

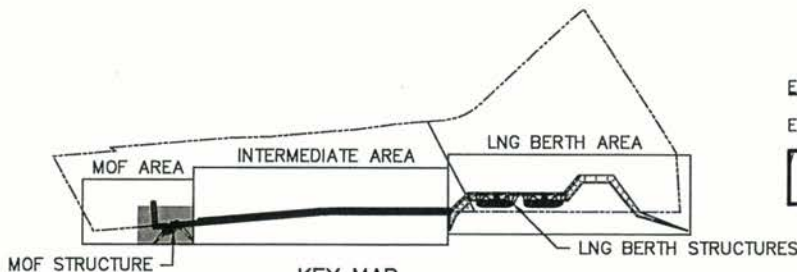
1. CONTOURS SHOW EXISTING BATHYMETRY IN MLLW.
2. FOR PROPOSED SHORE PROTECTION SEE SHTS 21 & 22.
3. OHWM BOUNDARY PROVIDED BY ECOLOGY & ENVIRONMENT, INC.

EXCAVATION & DREDGE VOLUMES

EXCAVATION & DREDGE:

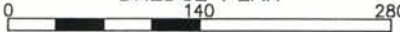
	MOF BASIN NORTH OF CHANNEL =	31,000 CY
	2' OVERDREDGE ALLOWANCE =	11,000 CY

TOTAL DREDGE & EXCAVATION	=	42,000 CY
TOTAL ACREAGE	=	4 ACRES



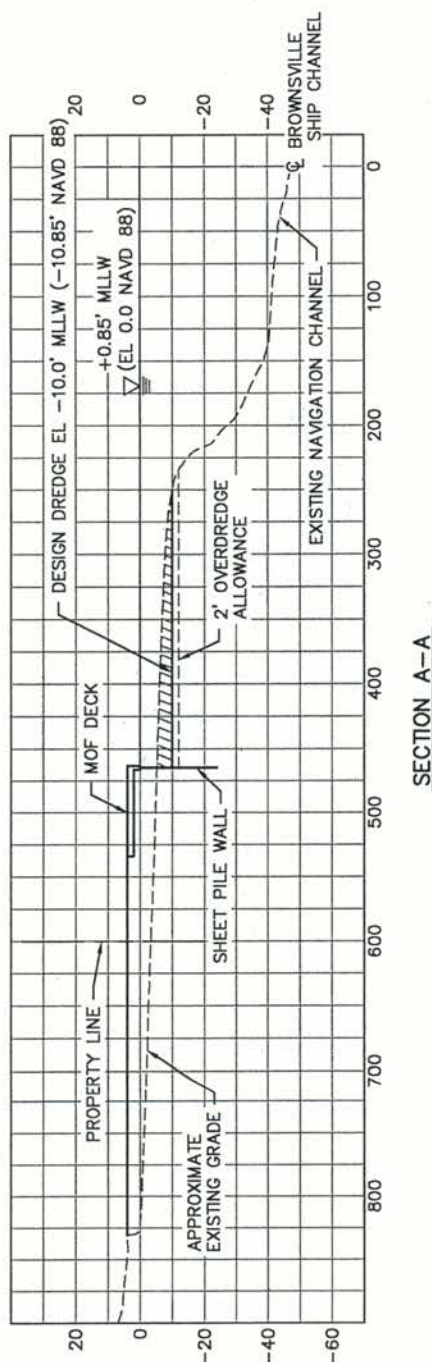
KEY MAP

PURPOSE:
 RIO GRANDE LNG TERMINAL
 DATUM: NAVD 88

MATERIALS OFFLOADING FACILITY
 DREDGE PLAN

 1" = 140'
 STATE OF TEXAS
 CAMERON COUNTY

RIO GRANDE LNG TERMINAL
 BROWNSVILLE, TX
 APPLICATION BY:
 RIO GRANDE LNG, LLC
 SHEET 12 OF 48 DATE: 4/13/16

Rio Grande LNG, LLC, & Rio Bravo Pipeline, LLC
 SWG-2015-00114 Sheet 70 of 102
 Wetlands and Brownsville Ship Channel, Kleberg,
 Jim Wells, Willacy, and Cameron Counties, TX.



NOTES:

1. DIMENSIONS SHOWN IN FEET.
2. VERTICAL DATUM BASED ON NAVD 88.

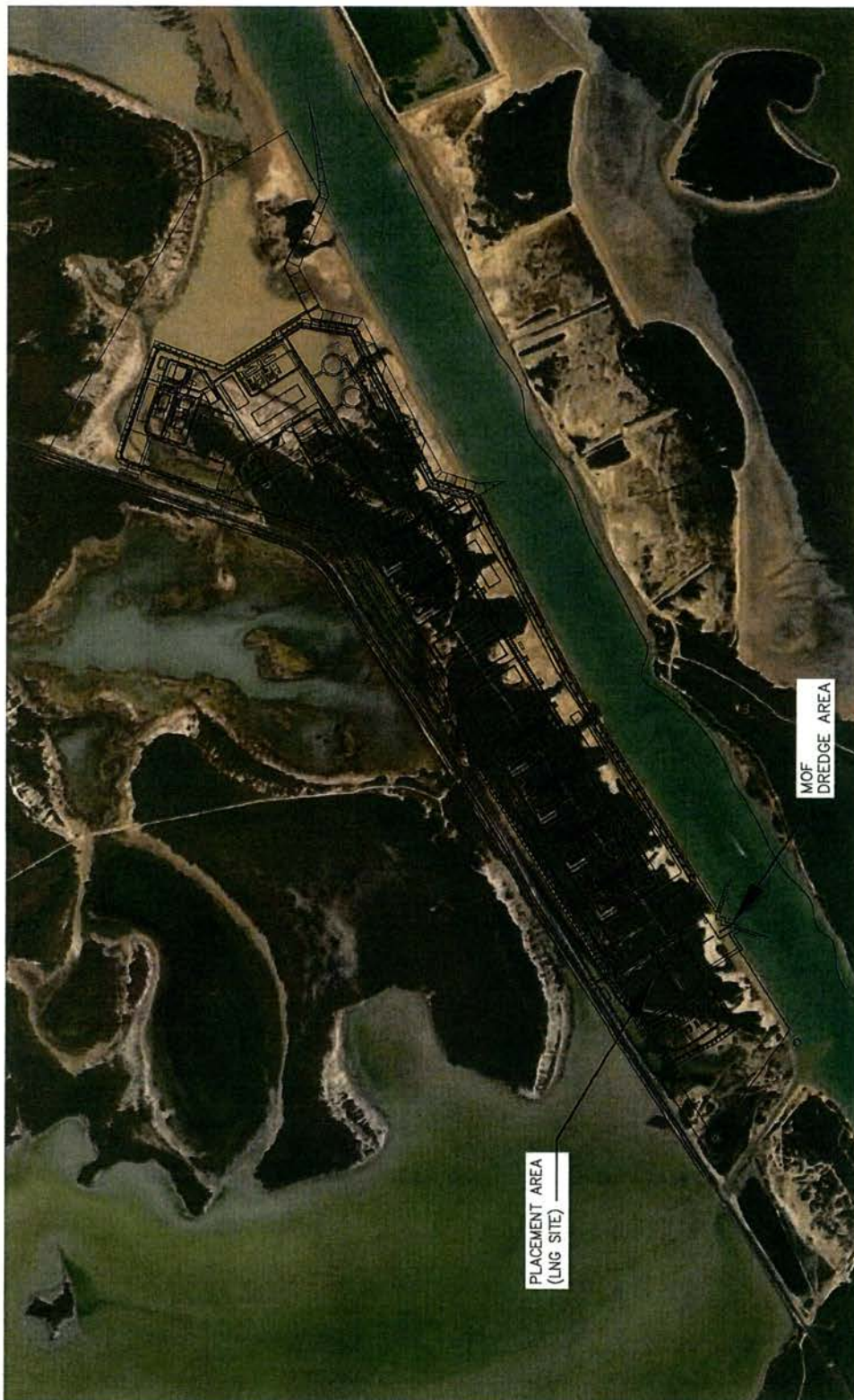
PURPOSE:
 RIO GRANDE LNG TERMINAL
 DATUM: NAVD 88

MATERIALS OFFLOADING FACILITY
 DREDGE SECTION
 0 60 150 120 / 300
 VERT 1" = 60' / HORIZ 1" = 1' = 150'
 STATE OF TEXAS
 CAMERON COUNTY

RIO GRANDE LNG TERMINAL
 BROWNSVILLE, TX
 APPLICATION BY:
 RIO GRANDE LNG, LLC
 SHEET 13 OF 48 DATE: 4/8/16

APR 13 2018

Rio Grande LNG, LLC, & Rio Bravo Pipeline, LLC
SWG-2015-00114 Sheet 71 of 102.
Wetlands and Brownsville Ship Channel, Kleberg,
Jim Wells, Willacy, and Cameron Counties, TX.



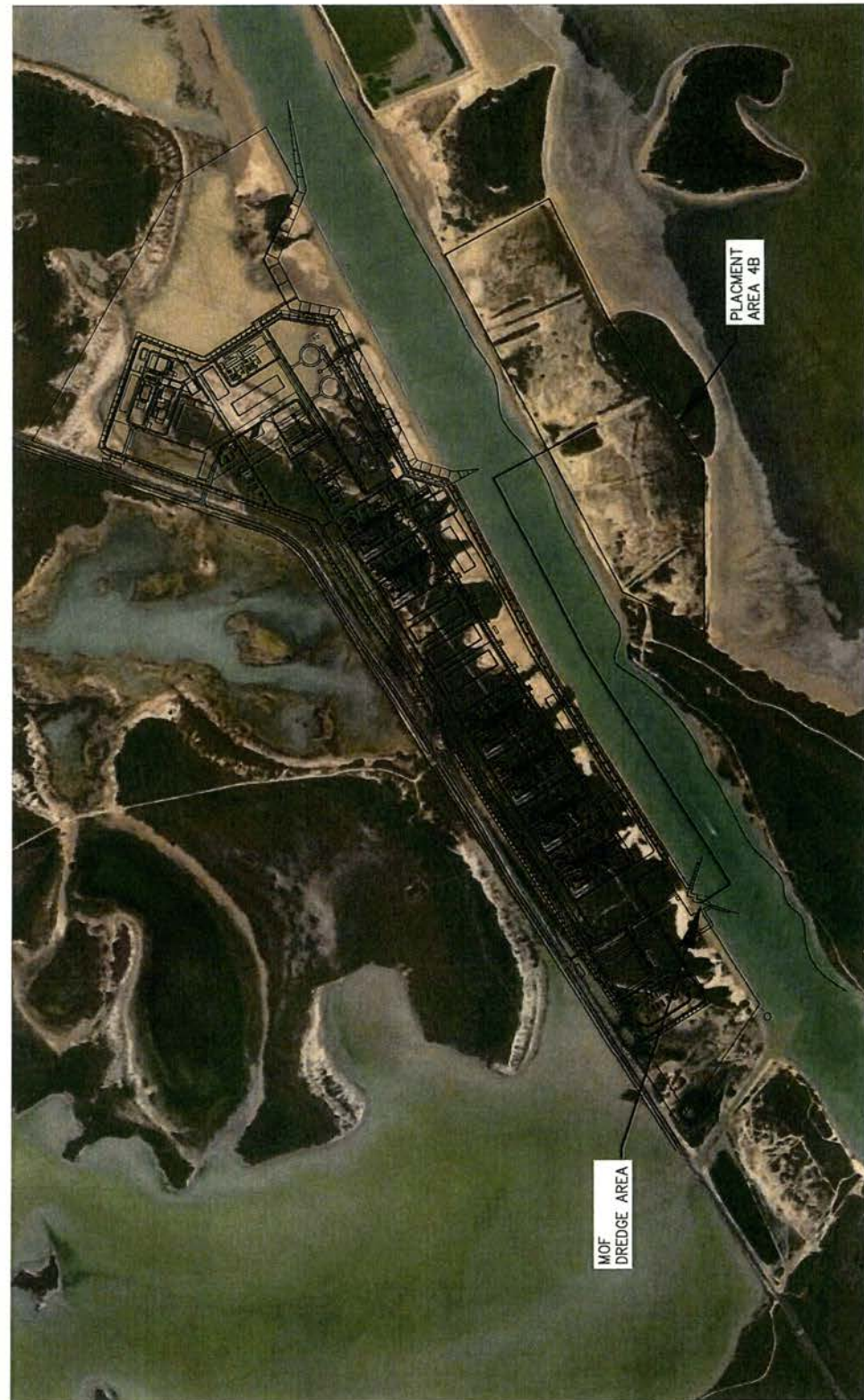
LEGEND:
— — — ROUTE FROM MOF TO DISPOSAL AREA

PURPOSE:
RIO GRANDE LNG TERMINAL
DATUM: NAVD 88

MOF DREDGE MATERIAL
PLACEMENT AREA — ALT. 1 (LNG SITE)
NOT TO SCALE
STATE OF TEXAS
CAMERON COUNTY

RIO GRANDE LNG TERMINAL
BROWNSVILLE, TX
APPLICATION BY:
RIO GRANDE LNG, LLC
SHEET 14 OF 48 DATE: 2/28/18

Rio Grande LNG, LLC, & Rio Bravo Pipeline, LLC
SWG-2015-00114 Sheet 72 of 102
Wetlands and Brownsville Ship Channel, Kleberg,
Jim Wells, Willacy, and Cameron Counties, TX.



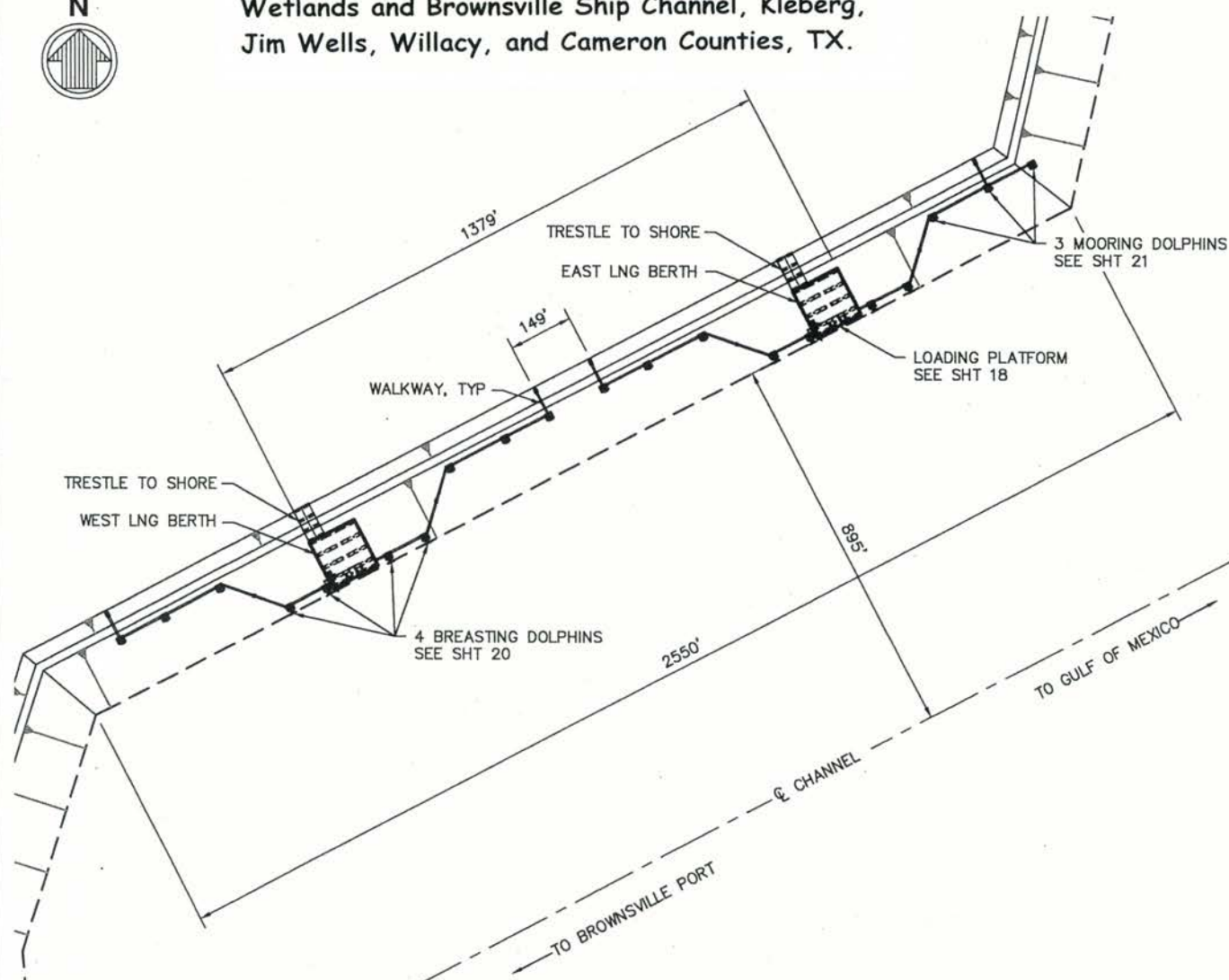
LEGEND:
— PIPELINE FROM MOF TO PLACEMENT AREA

PURPOSE:
RIO GRANDE LNG TERMINAL
DATUM: NAVD 88

MOF DREDGE MATERIAL
PLACEMENT AREA — ALT. 2 (PA 4B)
NOT TO SCALE
STATE OF TEXAS
CAMERON COUNTY

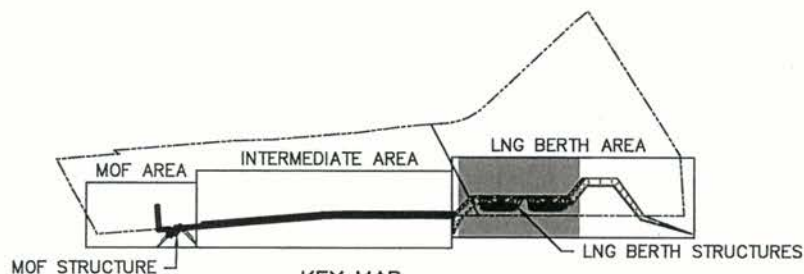
RIO GRANDE LNG TERMINAL
BROWNSVILLE, TX
APPLICATION BY:
RIO GRANDE LNG, LLC
SHEET 15 OF 48 DATE: 2/28/18

Rio Grande LNG, LLC, & Rio Bravo Pipeline, LLC
 SWG-2015-00114 Sheet 73 of 102.
 Wetlands and Brownsville Ship Channel, Kleberg,
 Jim Wells, Willacy, and Cameron Counties, TX.



NOTES:

1. DIMENSIONS SHOWN IN FEET.
2. EACH LNG BERTH CONSISTS OF THE FOLLOWING:
 - LOADING PLATFORM
 - ACCESS TRESTLE
 - 4 BREASTING DOLPHINS
 - 6 MOORING DOLPHINS
 - WALKWAYS BETWEEN STRUCTURES
3. FOR ELEVATION SEE SHT 17.



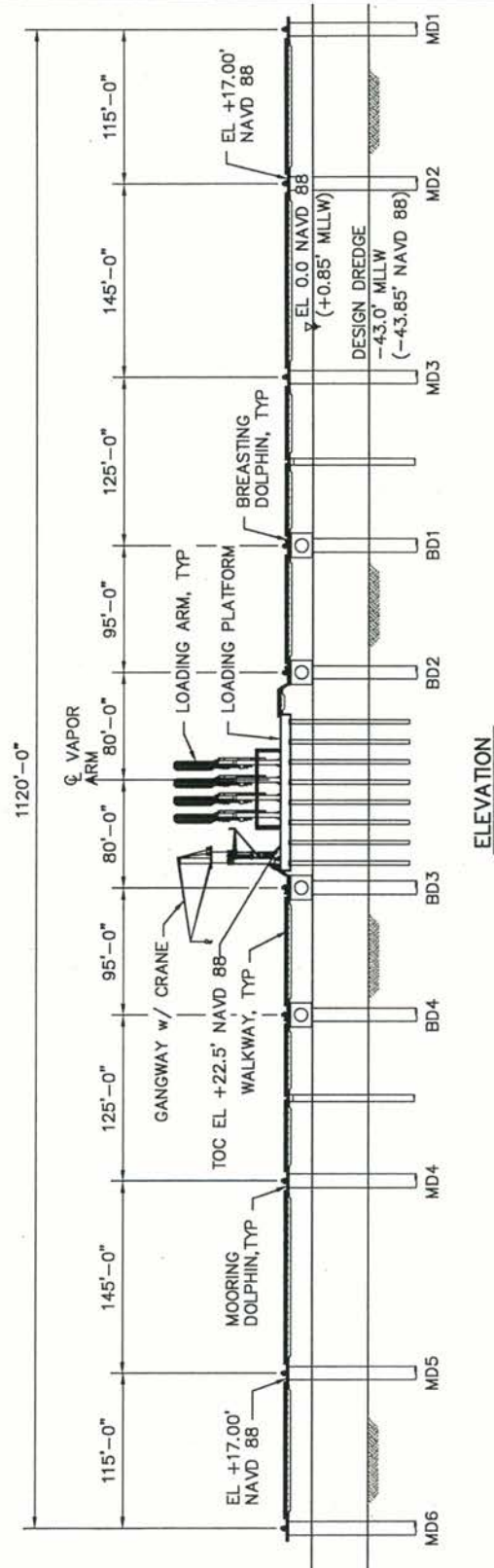
KEY MAP

PURPOSE:
 RIO GRANDE LNG TERMINAL
 DATUM: NAVD 88

LNG BERTH STRUCTURES
 0 400 800
 1" = 400'
 STATE OF TEXAS
 CAMERON COUNTY

RIO GRANDE LNG TERMINAL
 BROWNSVILLE, TX
 APPLICATION BY:
 RIO GRANDE LNG, LLC
 SHEET 16 OF 48 DATE: 4/13/16

Rio Grande LNG, LLC, & Rio Bravo Pipeline, LLC
 SWG-2015-00114 Sheet 74 of 102
 Wetlands and Brownsville Ship Channel, Kleberg,
 Jim Wells, Willacy, and Cameron Counties, TX.



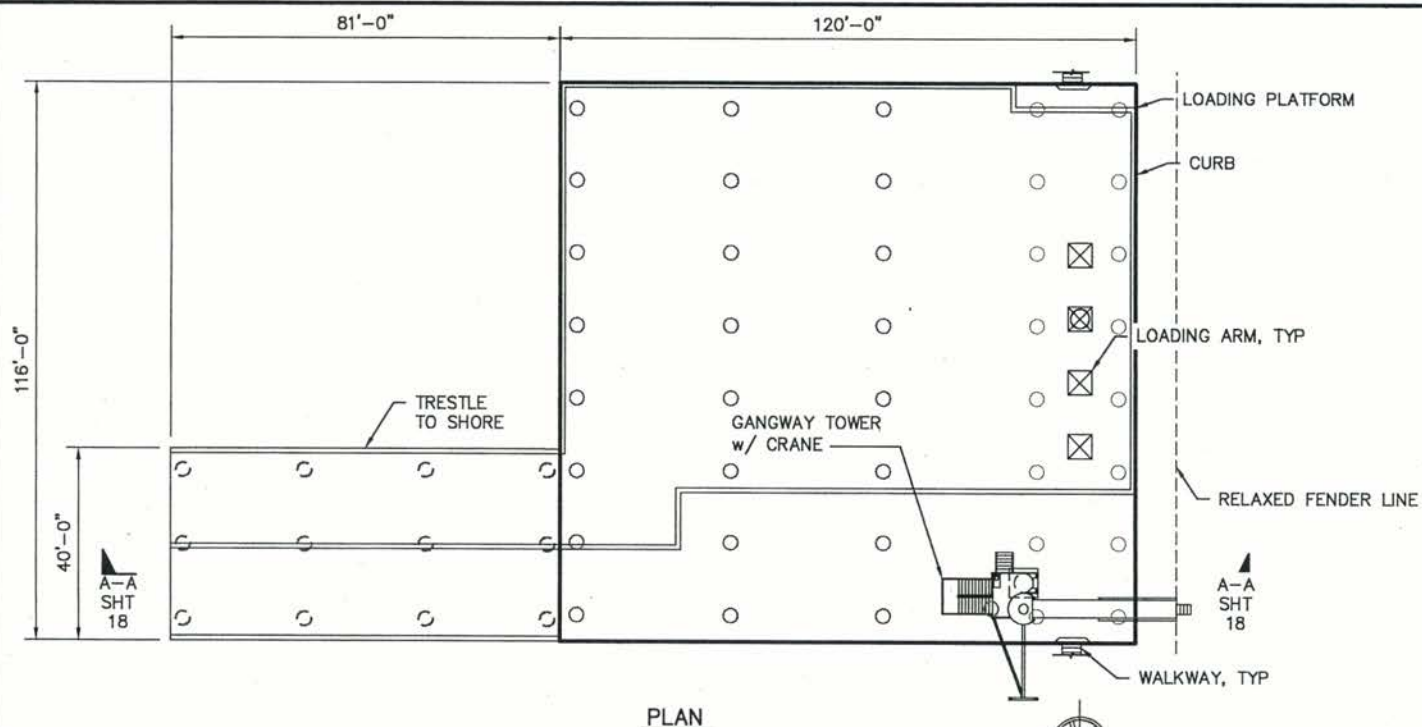
NOTES:

1. WEST LNG BERTH SHOWN. EAST BERTH SIMILAR.

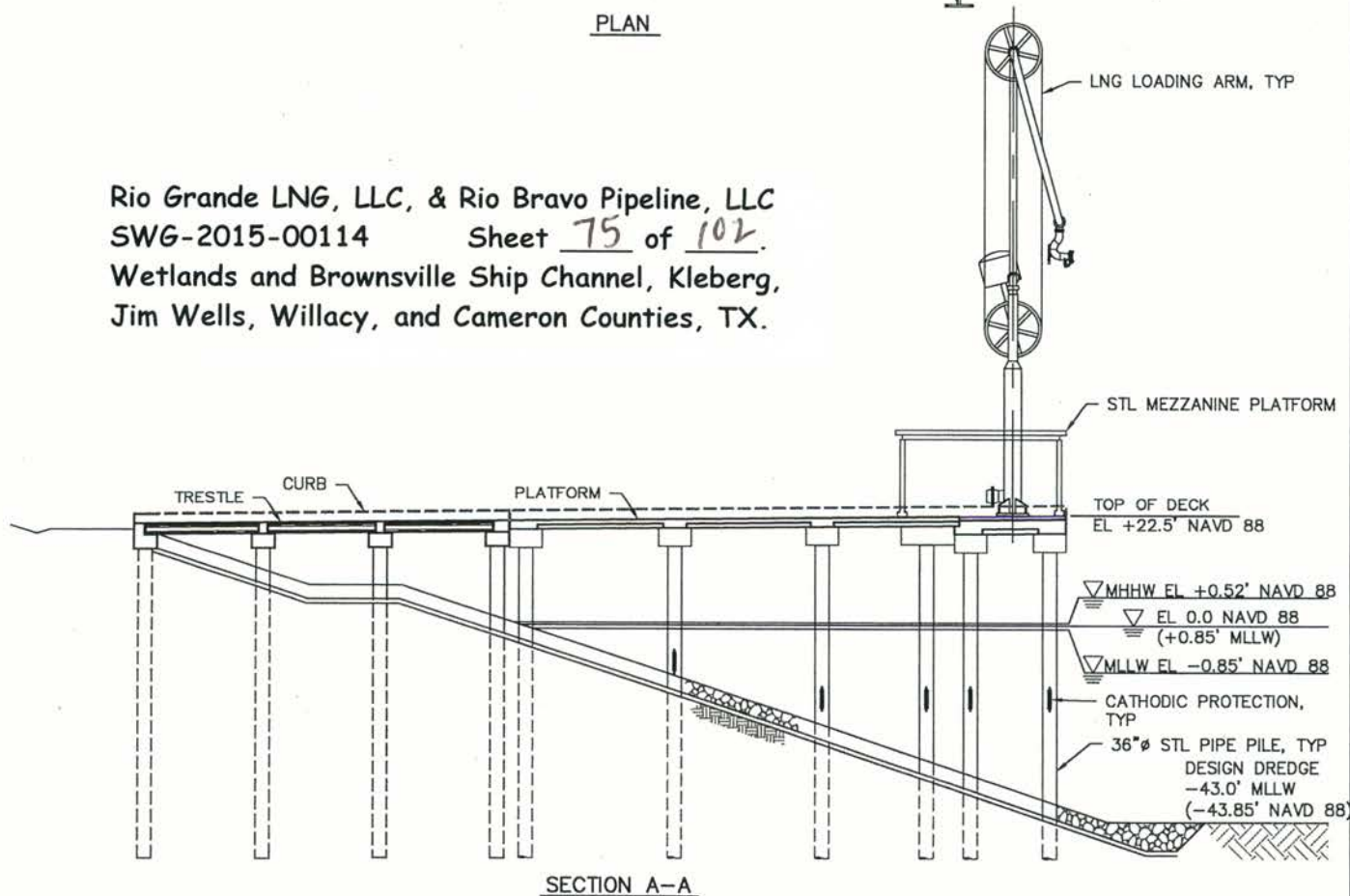
PURPOSE:
 RIO GRANDE LNG TERMINAL
 DATUM: NAVD 88

LNG BERTH STRUCTURES ELEVATION
 0 140 280
 1" = 140'
 STATE OF TEXAS
 CAMERON COUNTY

RIO GRANDE LNG TERMINAL
 BROWNSVILLE, TX
 APPLICATION BY:
 RIO GRANDE LNG, LLC
 SHEET: 17 OF 48 DATE: 4/8/16



Rio Grande LNG, LLC, & Rio Bravo Pipeline, LLC
 SWG-2015-00114 Sheet 75 of 102.
 Wetlands and Brownsville Ship Channel, Kleberg,
 Jim Wells, Willacy, and Cameron Counties, TX.

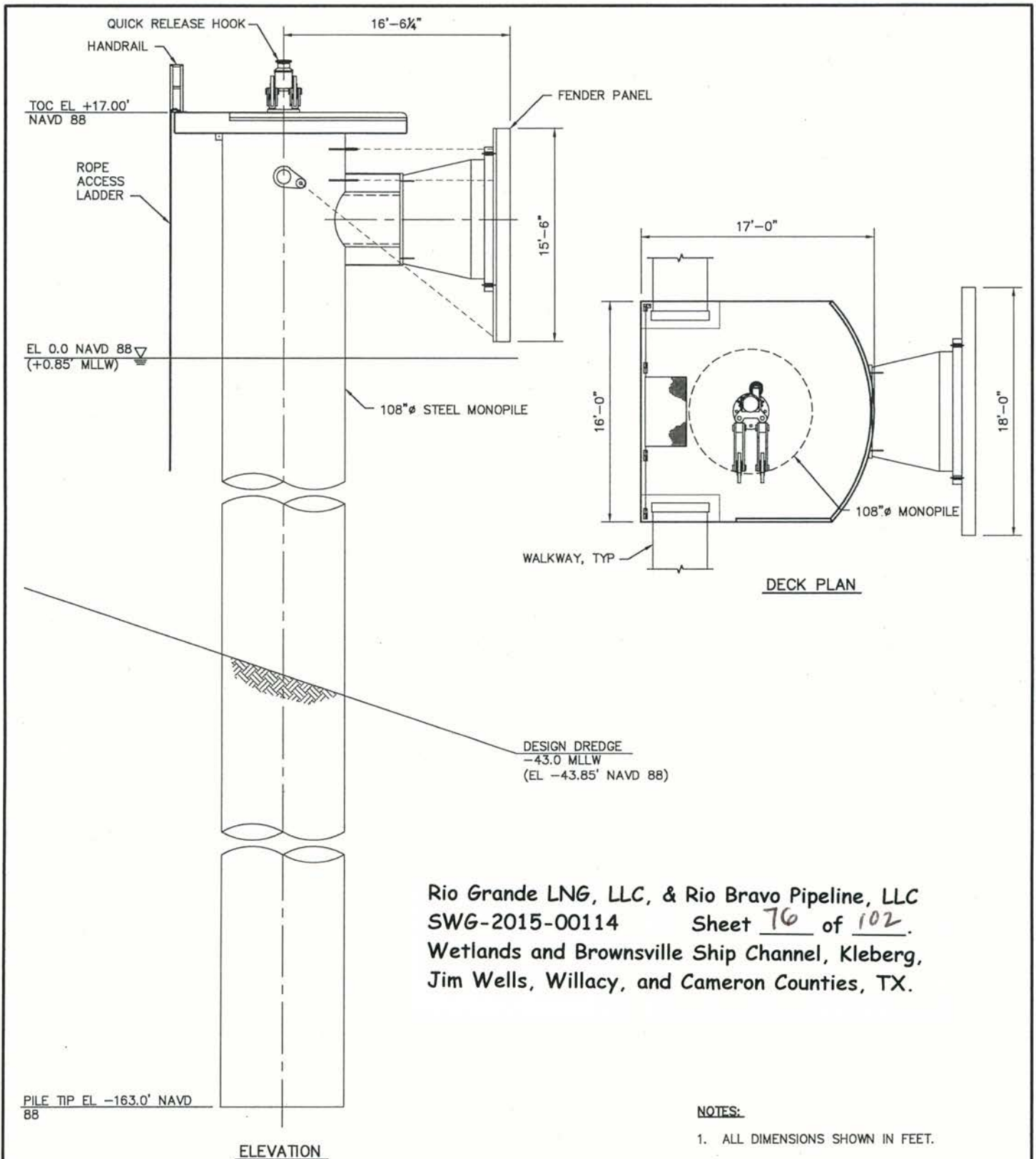


PURPOSE:
 RIO GRANDE LNG TERMINAL
 DATUM: NAVD 88

LOADING PLATFORM
 0 40 80
 1" = 40'
 STATE OF TEXAS
 CAMERON COUNTY

RIO GRANDE LNG TERMINAL
 BROWNSVILLE, TX
 APPLICATION BY:
 RIO GRANDE LNG, LLC
 SHEET 18 OF 48 DATE: 4/8/16

APR 13 2018



Rio Grande LNG, LLC, & Rio Bravo Pipeline, LLC
 SWG-2015-00114 Sheet 76 of 102.
 Wetlands and Brownsville Ship Channel, Kleberg,
 Jim Wells, Willacy, and Cameron Counties, TX.

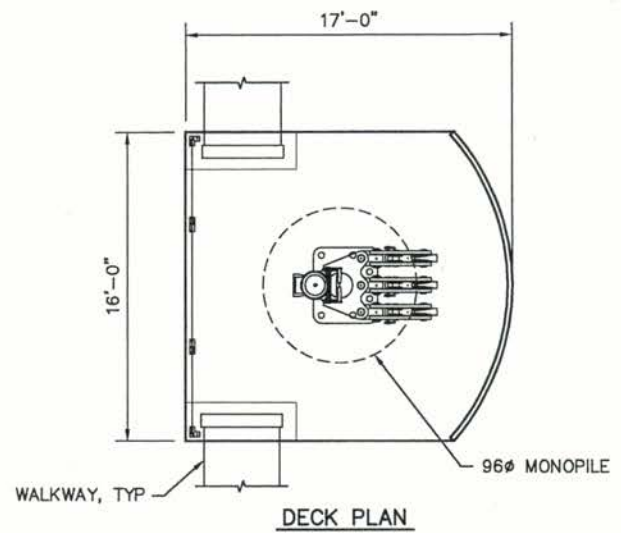
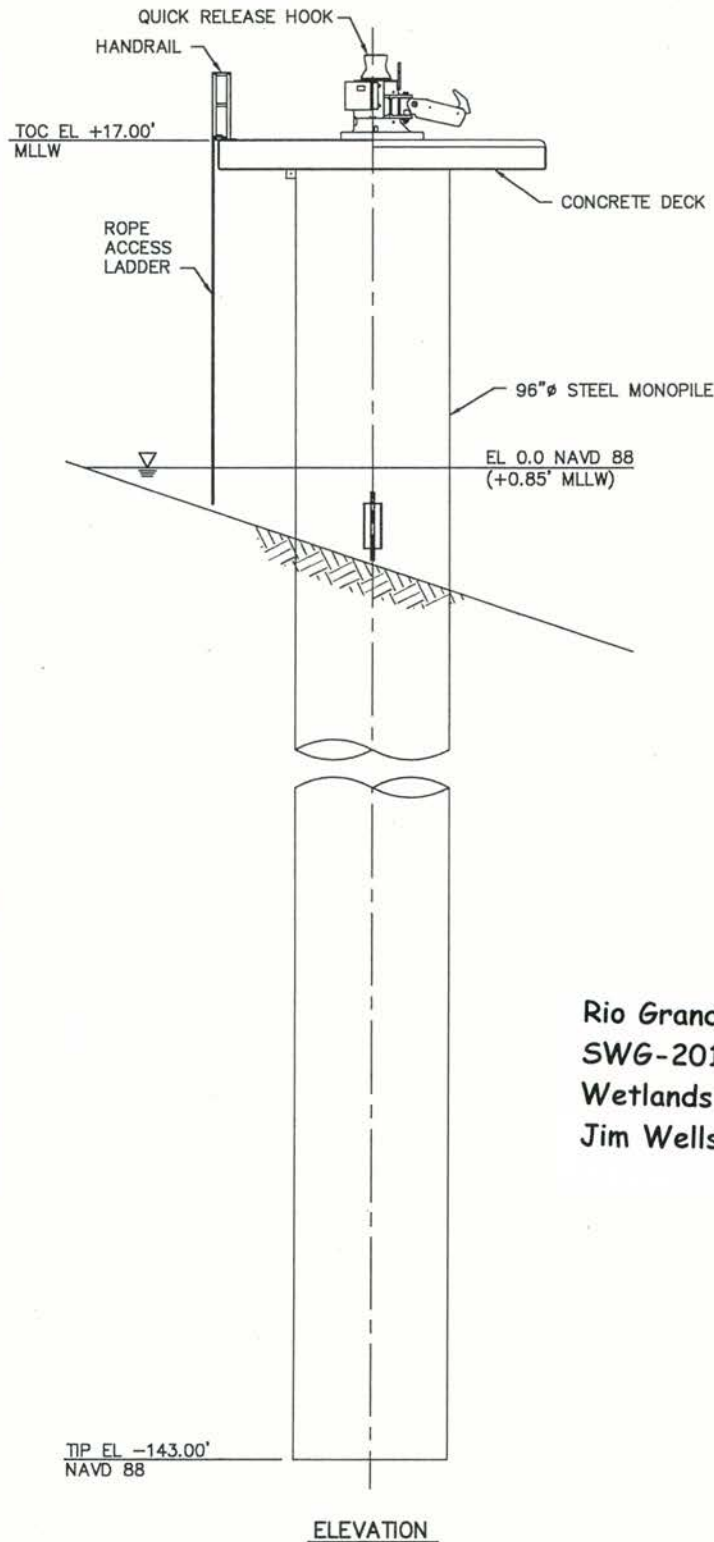
NOTES:

1. ALL DIMENSIONS SHOWN IN FEET.

PURPOSE:
 RIO GRANDE LNG TERMINAL
 DATUM: NAVD 88

BREASTING DOLPHIN
 0 10 20
 1" = 10'
 STATE OF TEXAS
 CAMERON COUNTY

RIO GRANDE LNG TERMINAL
 BROWNSVILLE, TX
 APPLICATION BY:
 RIO GRANDE LNG, LLC
 SHEET 20 OF 48 DATE: 4/8/16



Rio Grande LNG, LLC, & Rio Bravo Pipeline, LLC
 SWG-2015-00114 Sheet 77 of 102.
 Wetlands and Brownsville Ship Channel, Kleberg,
 Jim Wells, Willacy, and Cameron Counties, TX.

NOTES:

1. ALL DIMENSIONS SHOWN IN FEET.

PURPOSE:
 RIO GRANDE LNG TERMINAL
 DATUM: NAVD 88

MOORING DOLPHIN

0 10 20

1" = 10'

STATE OF TEXAS
 CAMERON COUNTY

RIO GRANDE LNG TERMINAL
 BROWNSVILLE, TX

APPLICATION BY:
 RIO GRANDE LNG, LLC

SHEET 21 OF 48 DATE: 4/8/16



1. DIMENSIONS SHOWN IN FEET.
2. OHWM BOUNDARY PROVIDED BY ECOLOGY & ENVIRONMENT, INC.

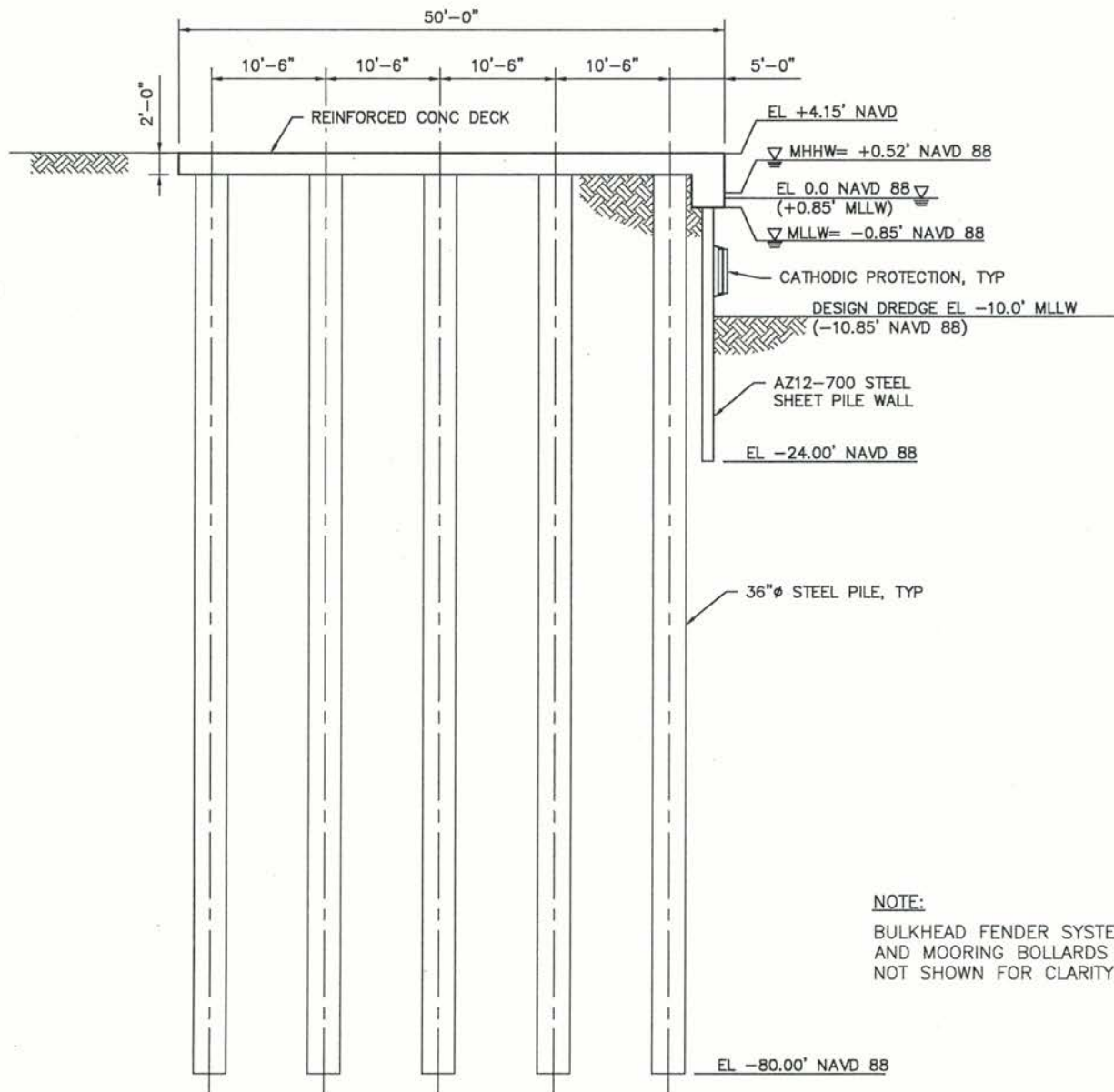
MATERIALS OFFLOADING FACILITY

0 200 400

1" = 200'

STATE OF TEXAS
CAMERON COUNTY

RIO GRANDE LNG TERMINAL
BROWNSVILLE, TX
APPLICATION BY:
RIO GRANDE LNG, LLC
SHEET 22 OF 48 DATE: 4/13/16



SECTION A-A

NOTE:

BULKHEAD FENDER SYSTEM
AND MOORING BOLLARDS
NOT SHOWN FOR CLARITY.

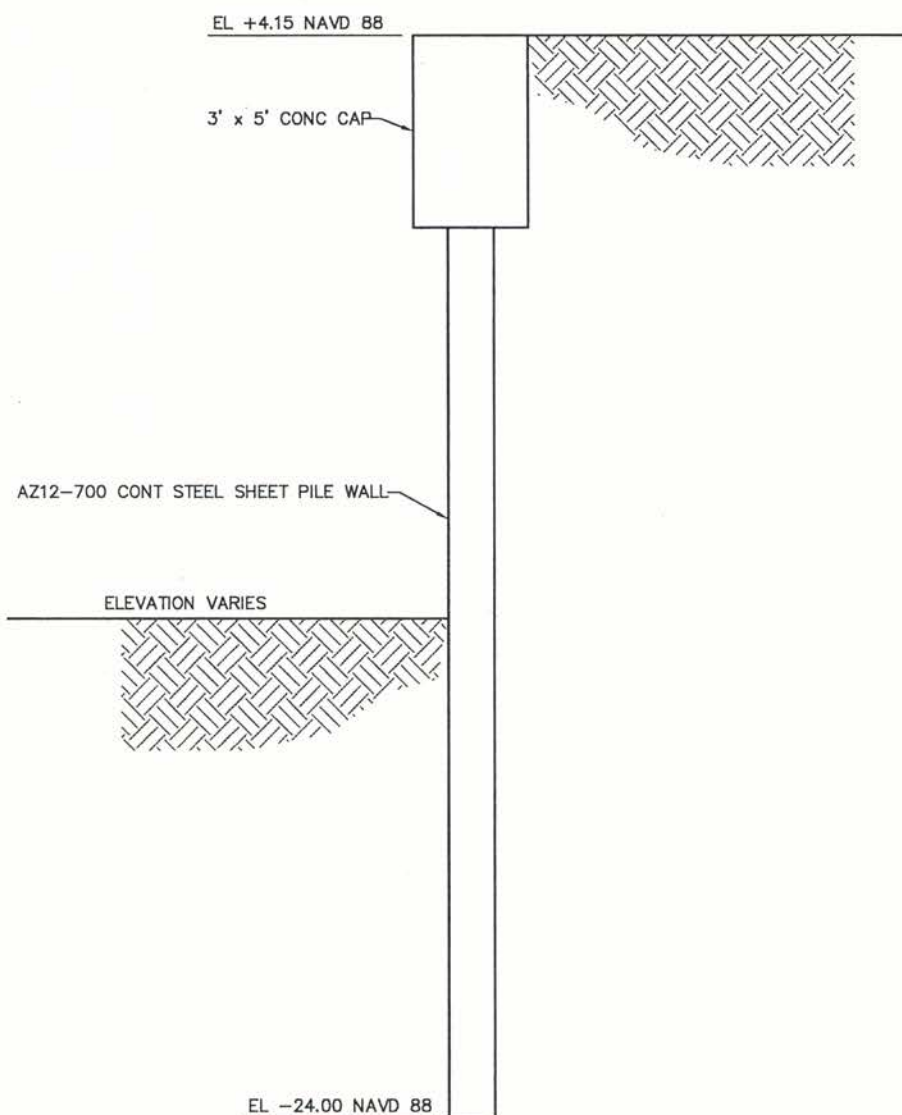
Rio Grande LNG, LLC, & Rio Bravo Pipeline, LLC
SWG-2015-00114 Sheet 79 of 102.
Wetlands and Brownsville Ship Channel, Kleberg,
Jim Wells, Willacy, and Cameron Counties, TX.

PURPOSE:
RIO GRANDE LNG TERMINAL
DATUM: NAVD 88

MATERIALS OFFLOADING FACILITY
SECTIONS SHEET 1 OF 2
0 16 32
1" = 16'
STATE OF TEXAS
CAMERON COUNTY

RIO GRANDE LNG TERMINAL
BROWNSVILLE, TX
APPLICATION BY:
RIO GRANDE LNG, LLC
SHEET 23 OF 48 DATE: 6/17/16

Rio Grande LNG, LLC, & Rio Bravo Pipeline, LLC
SWG-2015-00114 Sheet 80 of 102.
Wetlands and Brownsville Ship Channel, Kleberg,
Jim Wells, Willacy, and Cameron Counties, TX.



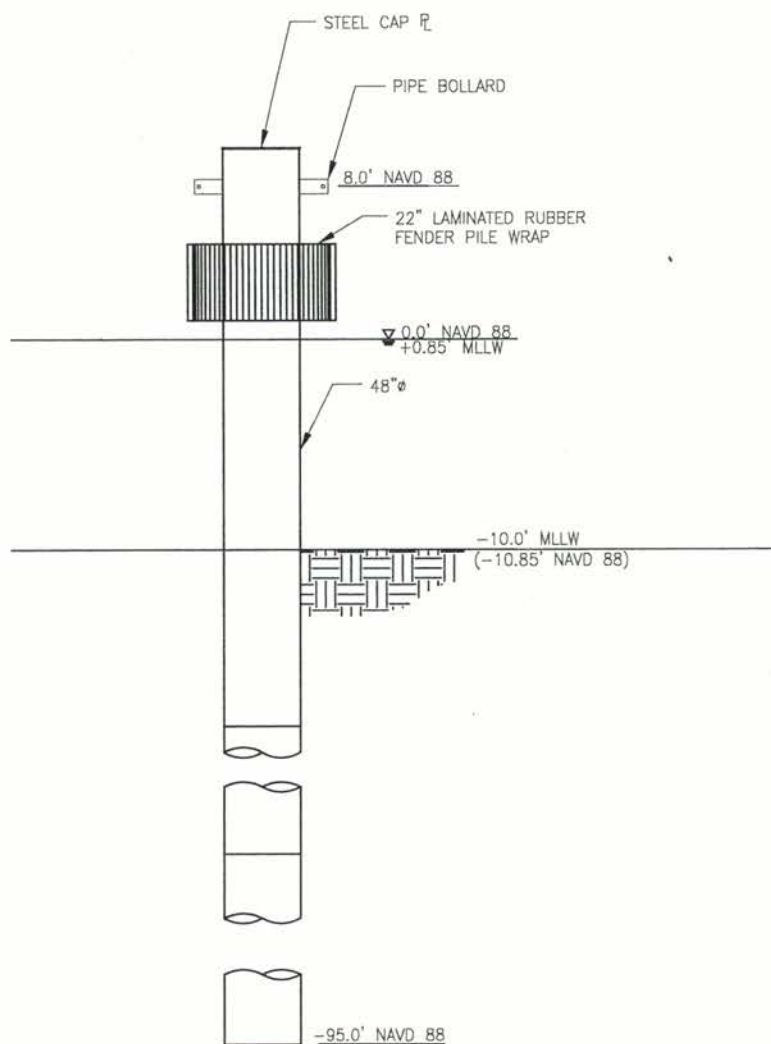
SECTION B-B

PURPOSE:
RIO GRANDE LNG TERMINAL
DATUM: NAVD 88

MATERIALS OFFLOADING FACILITY
SECTIONS SHEET 2 OF 2
0 5 10
1" = 5'
STATE OF TEXAS
CAMERON COUNTY

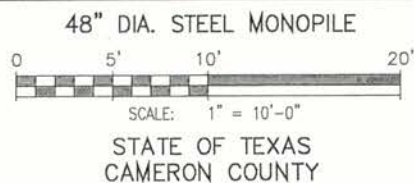
RIO GRANDE LNG TERMINAL
BROWNSVILLE, TX
APPLICATION BY:
RIO GRANDE LNG, LLC
SHEET 24 OF 48 DATE: 4/8/16

Rio Grande LNG, LLC, & Rio Bravo Pipeline, LLC
 SWG-2015-00114 Sheet 81 of 102.
 Wetlands and Brownsville Ship Channel, Kleberg,
 Jim Wells, Willacy, and Cameron Counties, TX.

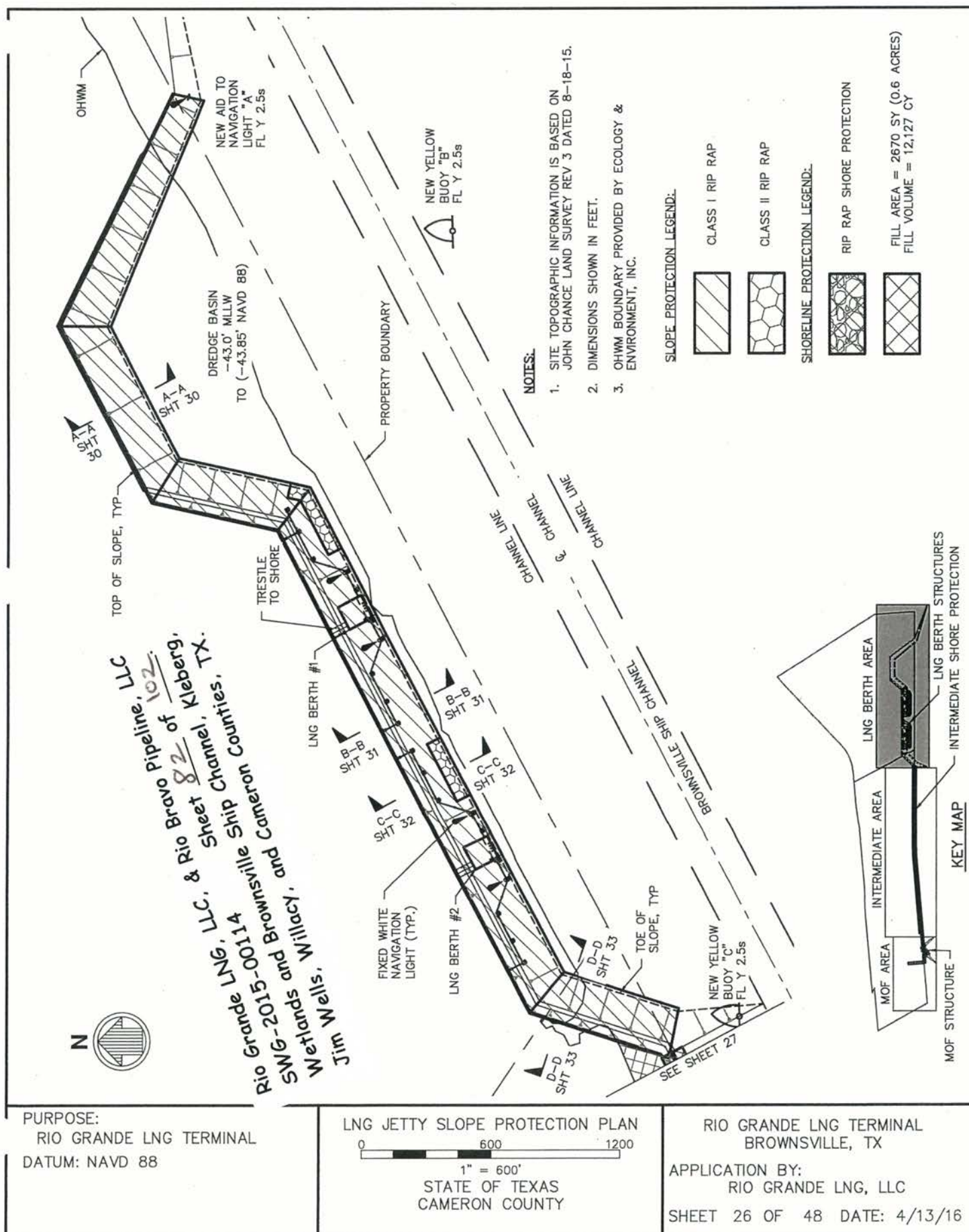


48" DIA. STEEL MONOPILE
 1"=10'

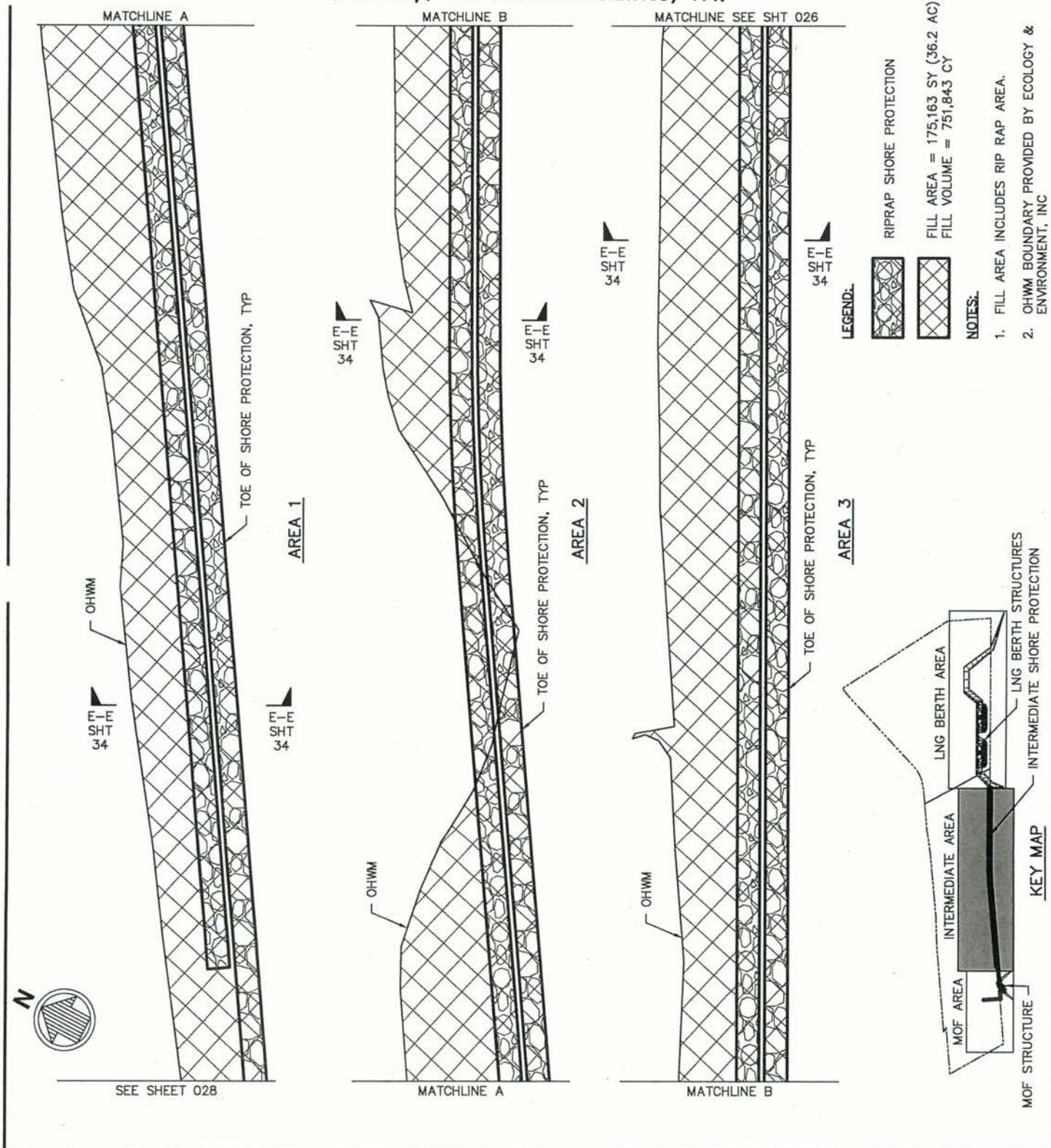
PURPOSE:
 RIO GRANDE LNG TERMINAL
 DATUM: NAVD 88



RIO GRANDE LNG TERMINAL
 BROWNSVILLE, TX
 APPLICATION BY:
 RIO GRANDE LNG, LLC
 SHEET 25 OF 48 DATE: 4/8/16



Rio Grande LNG, LLC, & Rio Bravo Pipeline, LLC
 SWG-2015-00114 Sheet 83 of 102.
 Wetlands and Brownsville Ship Channel, Kleberg,
 Jim Wells, Willacy, and Cameron Counties, TX.

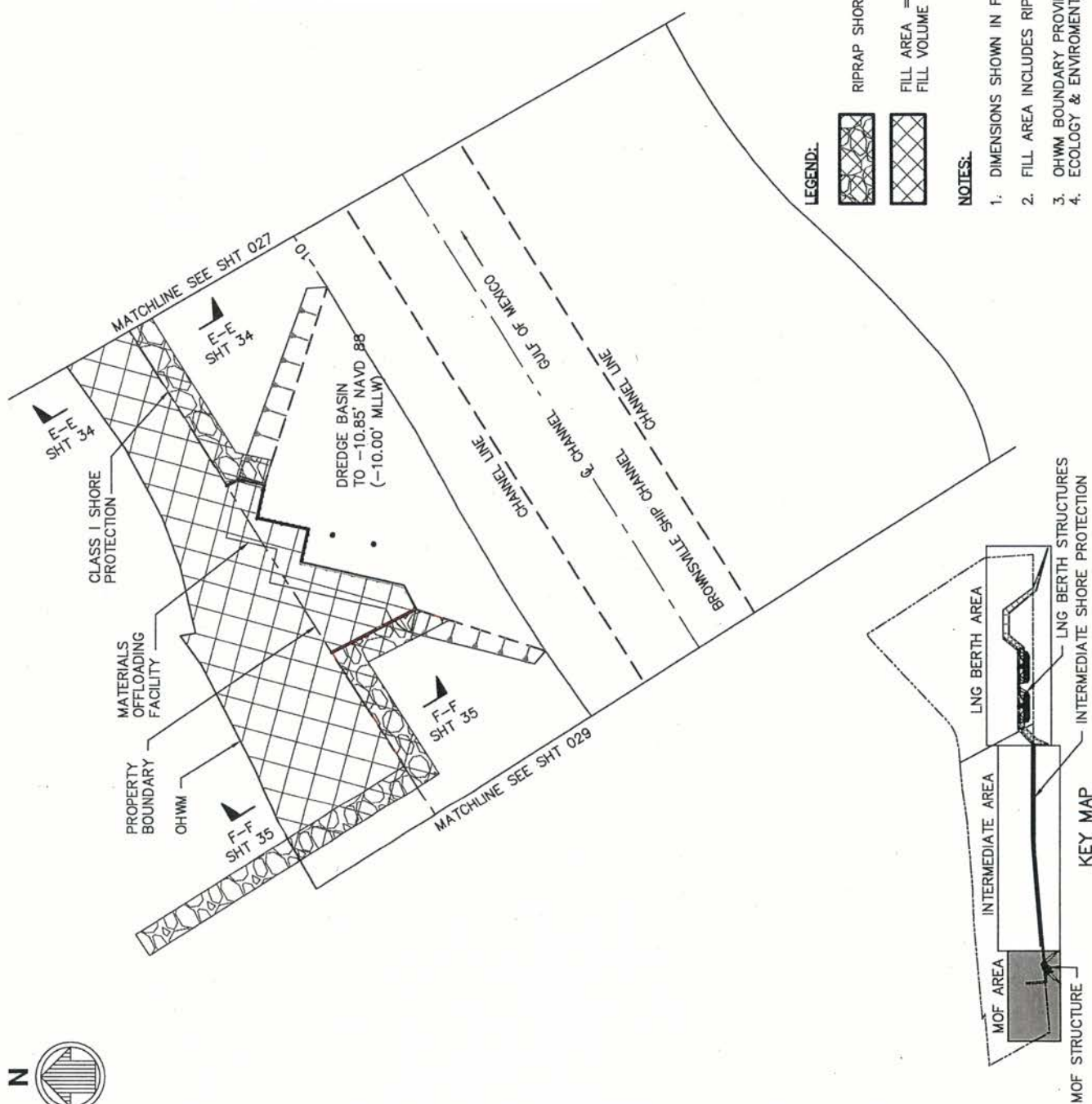


PURPOSE:
 RIO GRANDE LNG TERMINAL
 DATUM: NAVD 88

INTERMEDIATE SHORE PROTECTION PLAN
 0 300 600
 1" = 300'
 STATE OF TEXAS
 CAMERON COUNTY

RIO GRANDE LNG TERMINAL
 BROWNSVILLE, TX
 APPLICATION BY:
 RIO GRANDE LNG, LLC
 SHEET 27 OF 48 DATE: 4/13/16

Rio Grande LNG, LLC, & Rio Bravo Pipeline, LLC
 SWG-2015-00114 Sheet 84 of 102.
 Wetlands and Brownsville Ship Channel, Kleberg,
 Jim Wells, Willacy, and Cameron Counties, TX.

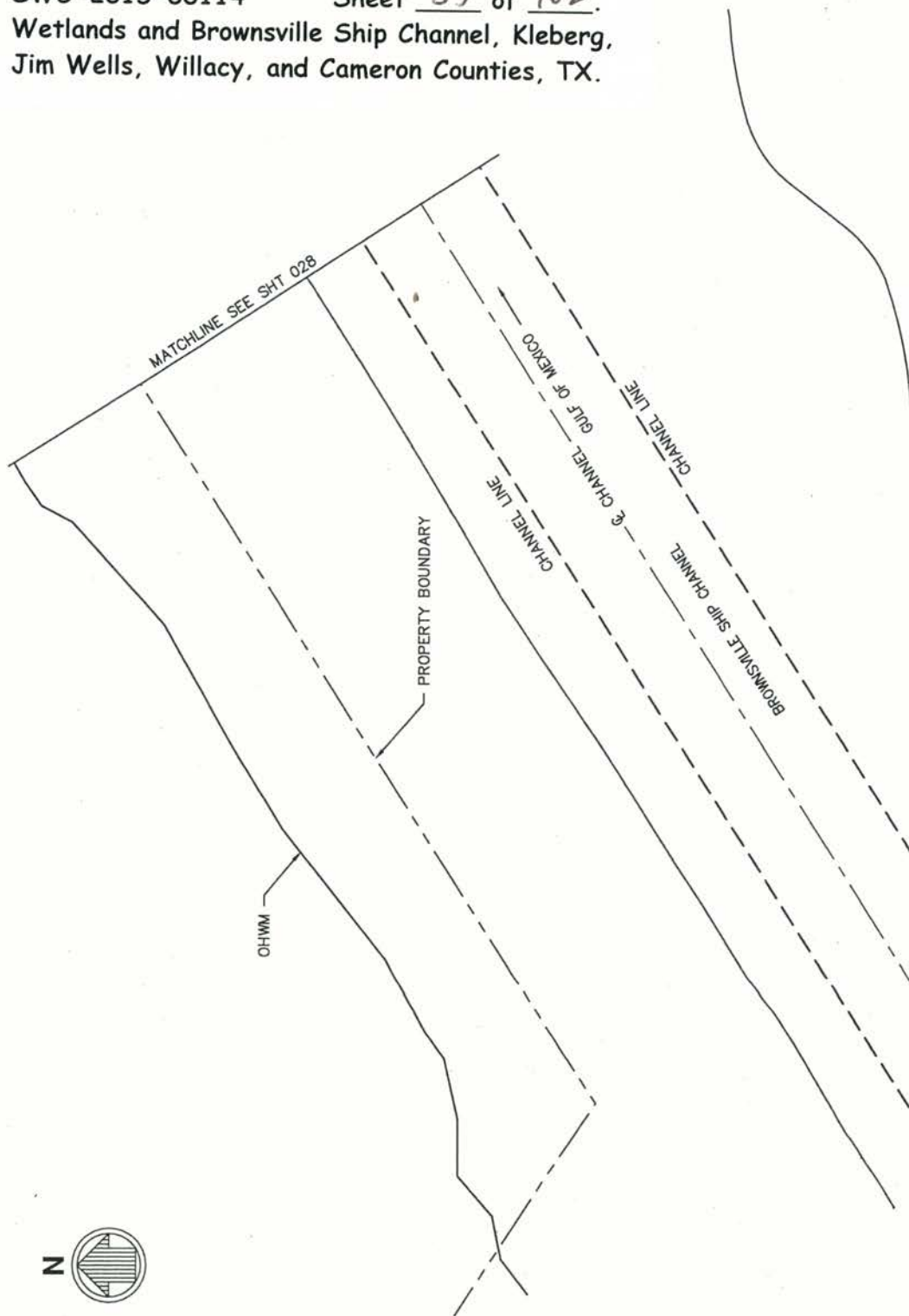


PURPOSE:
 RIO GRANDE LNG TERMINAL
 DATUM: NAVD 88

MOF SHORE PROTECTION PLAN
 SHEET 1 OF 2
 0 300 600
 1" = 300'
 STATE OF TEXAS
 CAMERON COUNTY

RIO GRANDE LNG TERMINAL
 BROWNSVILLE, TX
 APPLICATION BY:
 RIO GRANDE LNG, LLC
 SHEET 28 OF 48 DATE: 4/13/16

Rio Grande LNG, LLC, & Rio Bravo Pipeline, LLC
 SWG-2015-00114 Sheet 85 of 102.
 Wetlands and Brownsville Ship Channel, Kleberg,
 Jim Wells, Willacy, and Cameron Counties, TX.



LEGEND:



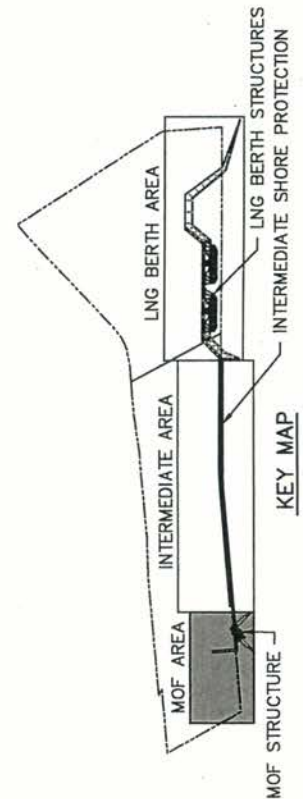
RIPRAP SHORE PROTECTION



FILL AREA = 0 SY (0 ACRES)
 FILL VOLUME = 0 CY

NOTES:

1. DIMENSIONS SHOWN IN FEET.
2. FILL AREA INCLUDES RIP RAP AREA.
3. OHWM BOUNDARY PROVIDED BY ECOLOGY & ENVIRONMENT, INC

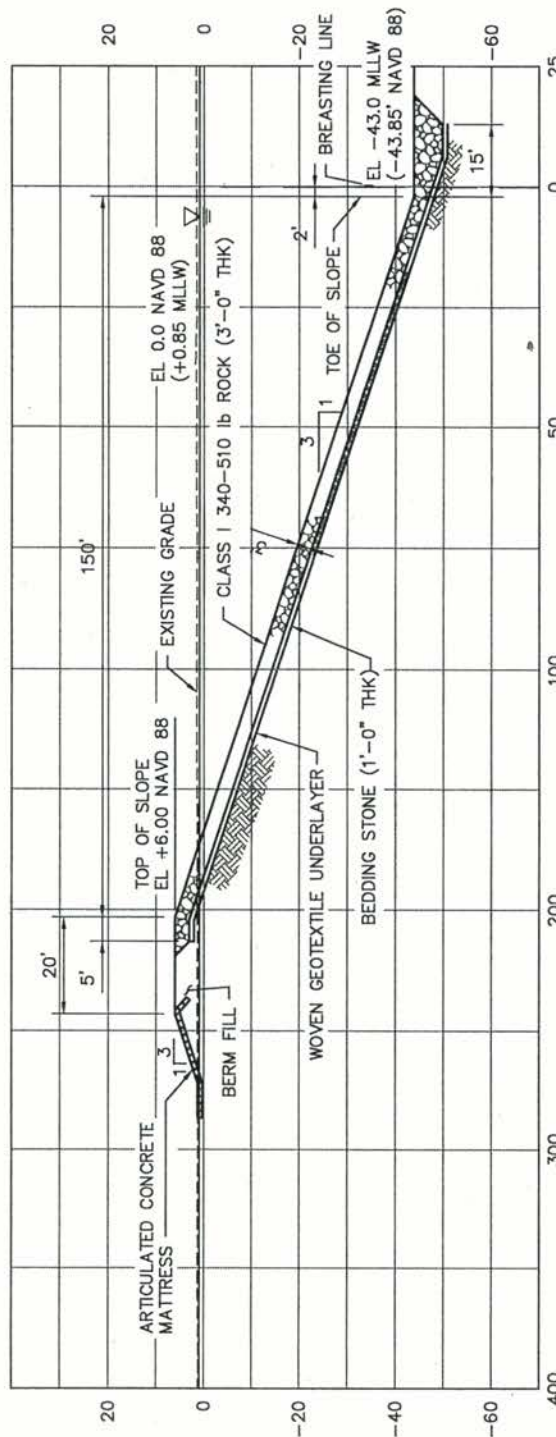


PURPOSE:
 RIO GRANDE LNG TERMINAL
 DATUM: NAVD 88

MOF SHORE PROTECTION PLAN
 SHEET 2 OF 2
 0 300 600
 1" = 300'
 STATE OF TEXAS
 CAMERON COUNTY

RIO GRANDE LNG TERMINAL
 BROWNSVILLE, TX
 APPLICATION BY:
 RIO GRANDE LNG, LLC
 SHEET 29 OF 48 DATE: 4/13/16

Rio Grande LNG, LLC, & Rio Bravo Pipeline, LLC
 SWG-2015-00114 Sheet 86 of 102
 Wetlands and Brownsville Ship Channel, Kleberg,
 Jim Wells, Willacy, and Cameron Counties, TX.



TYPICAL SECTION A-A
 (REF. SHEET 26)

NOTES:

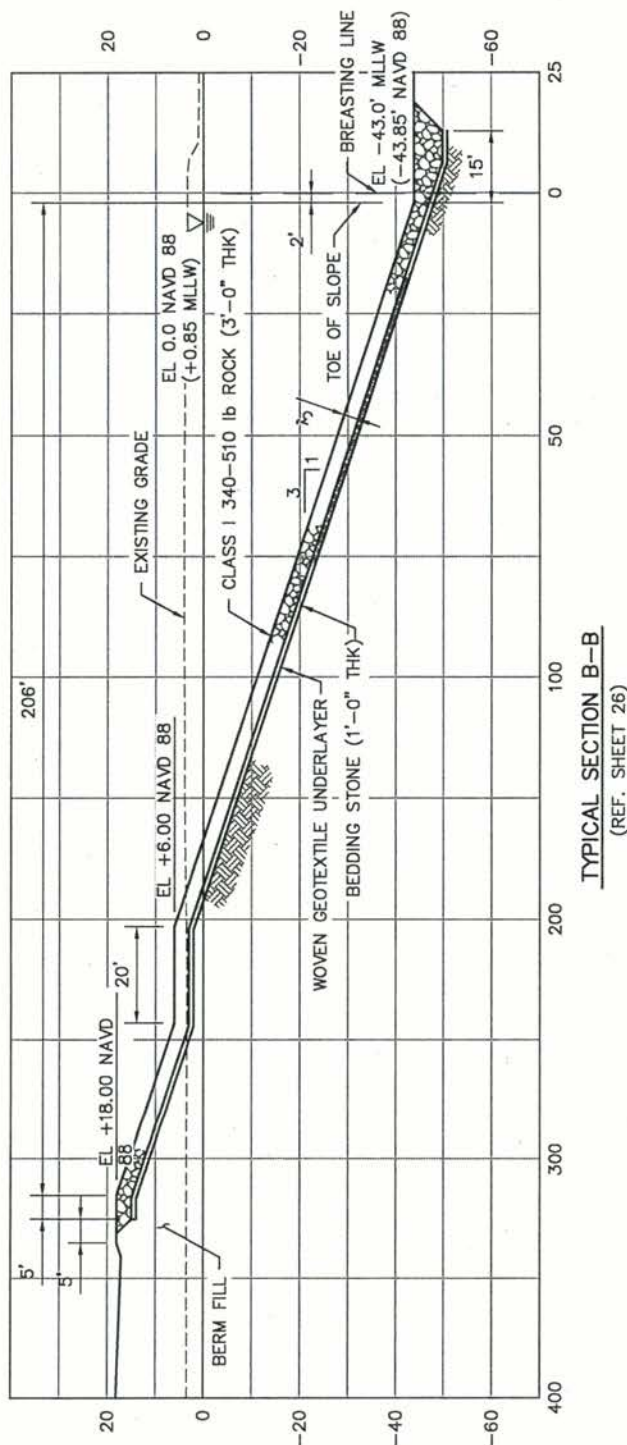
1. DIMENSIONS SHOWN IN FEET.

PURPOSE:
 RIO GRANDE LNG TERMINAL
 DATUM: NAVD 88

LNG JETTY SHORE PROTECTION
 SECTIONS SHEET 1 OF 4
 0 40 80
 1" = 40'
 STATE OF TEXAS
 CAMERON COUNTY

RIO GRANDE LNG TERMINAL
 BROWNSVILLE, TX
 APPLICATION BY:
 RIO GRANDE LNG, LLC
 SHEET 30 OF 48 DATE: 4/8/16

Rio Grande LNG, LLC, & Rio Bravo Pipeline, LLC
 SWG-2015-00114 Sheet 87 of 102
 Wetlands and Brownsville Ship Channel, Kleberg,
 Jim Wells, Willacy, and Cameron Counties, TX.



TYPICAL SECTION B-B
 (REF. SHEET 26)

NOTES:

1. DIMENSIONS SHOWN IN FEET.

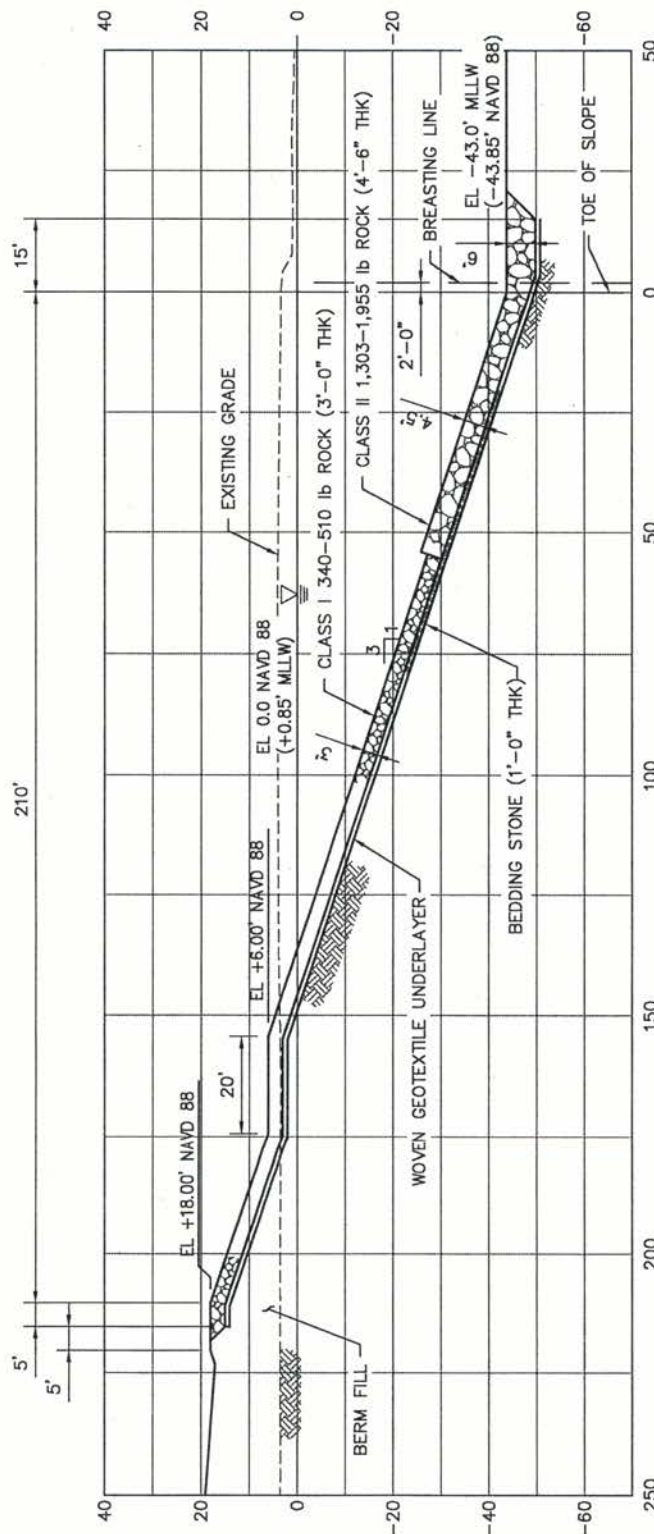
PURPOSE:
 RIO GRANDE LNG TERMINAL
 DATUM: NAVD 88

LNG JETTY SHORE PROTECTION
 SECTIONS SHEET 2 OF 4

 1" = 40'
 STATE OF TEXAS
 CAMERON COUNTY

RIO GRANDE LNG TERMINAL
 BROWNSVILLE, TX
 APPLICATION BY:
 RIO GRANDE LNG, LLC
 SHEET 31 OF 48 DATE: 4/8/16

Rio Grande LNG, LLC, & Rio Bravo Pipeline, LLC
 SWG-2015-00114 Sheet 88 of 102.
 Wetlands and Brownsville Ship Channel, Kleberg,
 Jim Wells, Willacy, and Cameron Counties, TX.



TYPICAL SECTION C-C
 (REF. SHEET 26)

NOTES:

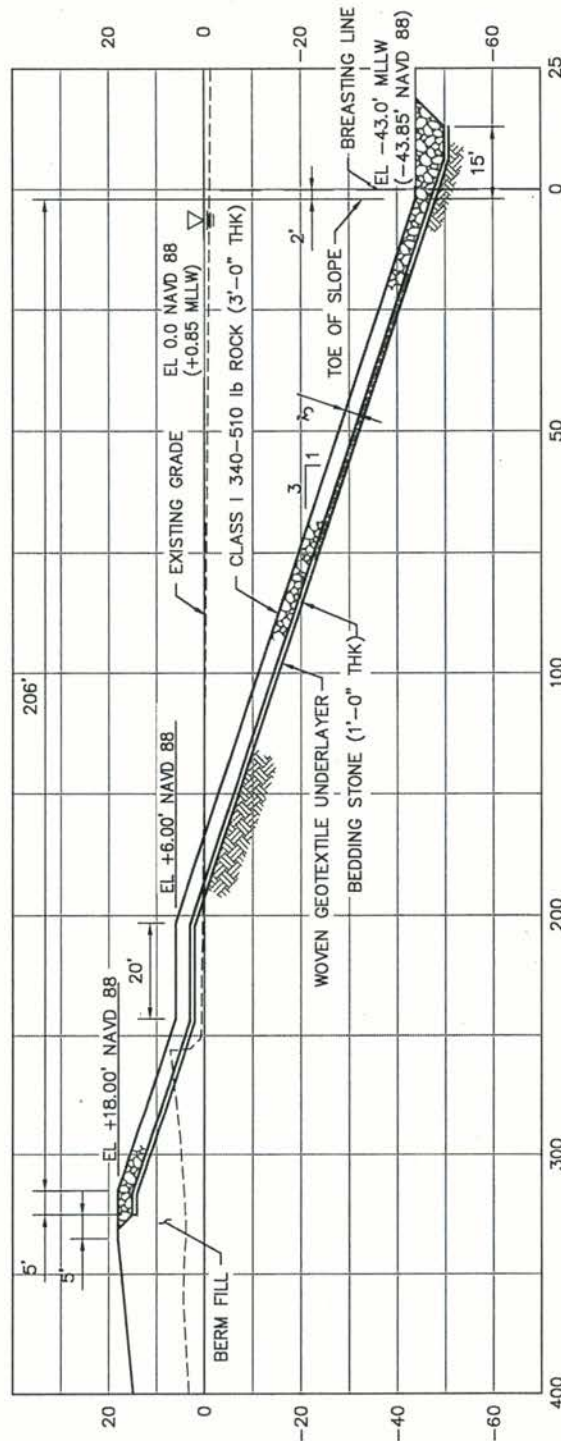
1. ALL DIMENSIONS IN FEET.

PURPOSE:
 RIO GRANDE LNG TERMINAL
 DATUM: NAVD 88

LNG JETTY SHORE PROTECTION
 SECTIONS SHEET 3 OF 4
 0 40 80
 1" = 40'
 STATE OF TEXAS
 CAMERON COUNTY

RIO GRANDE LNG TERMINAL
 BROWNSVILLE, TX
 APPLICATION BY:
 RIO GRANDE LNG, LLC
 SHEET 32 OF 48 DATE: 4/8/16

Rio Grande LNG, LLC, & Rio Bravo Pipeline, LLC
 SWG-2015-00114 Sheet 89 of 102
 Wetlands and Brownsville Ship Channel, Kleberg,
 Jim Wells, Willacy, and Cameron Counties, TX.



TYPICAL SECTION D-D
 (REF. SHEET 26)

NOTES:

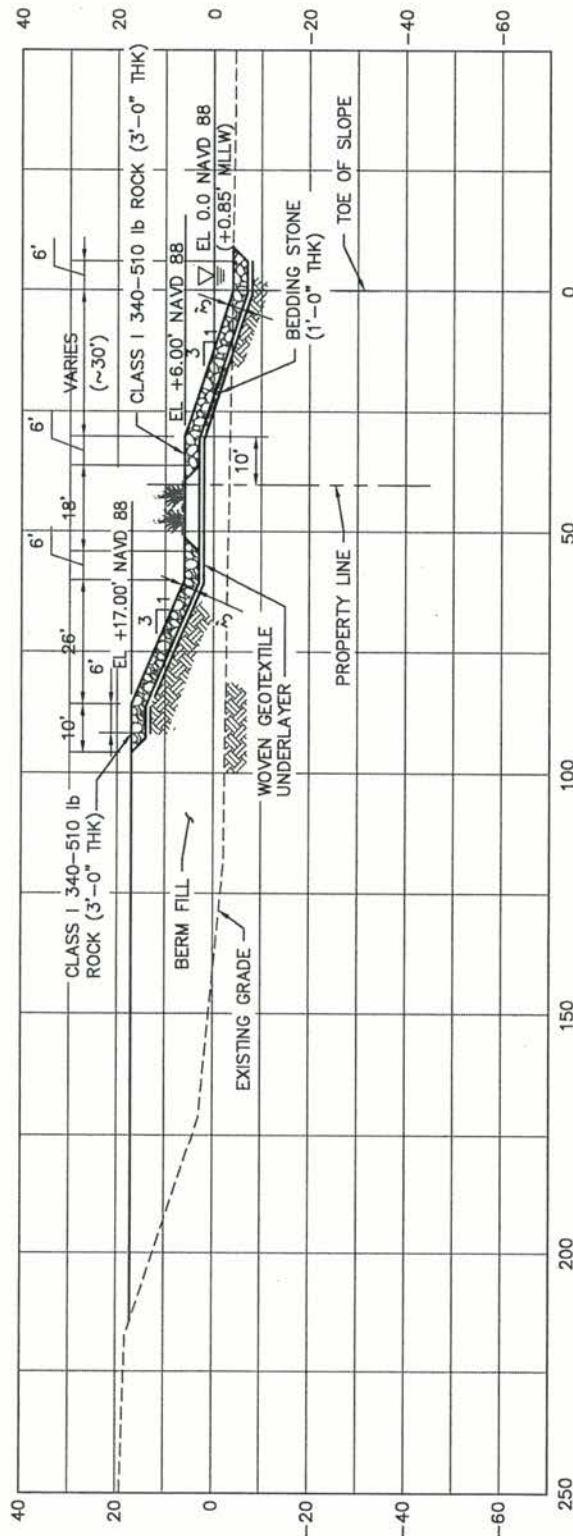
1. DIMENSIONS SHOWN IN FEET.

PURPOSE:
 RIO GRANDE LNG TERMINAL
 DATUM: NAVD 88

LNG JETTY SHORE PROTECTION
 SECTIONS SHEET 4 OF 4
 0 40 80
 1" = 40'
 STATE OF TEXAS
 CAMERON COUNTY

RIO GRANDE LNG TERMINAL
 BROWNSVILLE, TX
 APPLICATION BY:
 RIO GRANDE LNG, LLC
 SHEET 33 OF 48 DATE: 4/8/16

Rio Grande LNG, LLC, & Rio Bravo Pipeline, LLC
 SWG-2015-00114 Sheet 90 of 102
 Wetlands and Brownsville Ship Channel, Kleberg,
 Jim Wells, Willacy, and Cameron Counties, TX.



TYPICAL SECTION E-E
 (REF. SHEET 27/28)

NOTES:

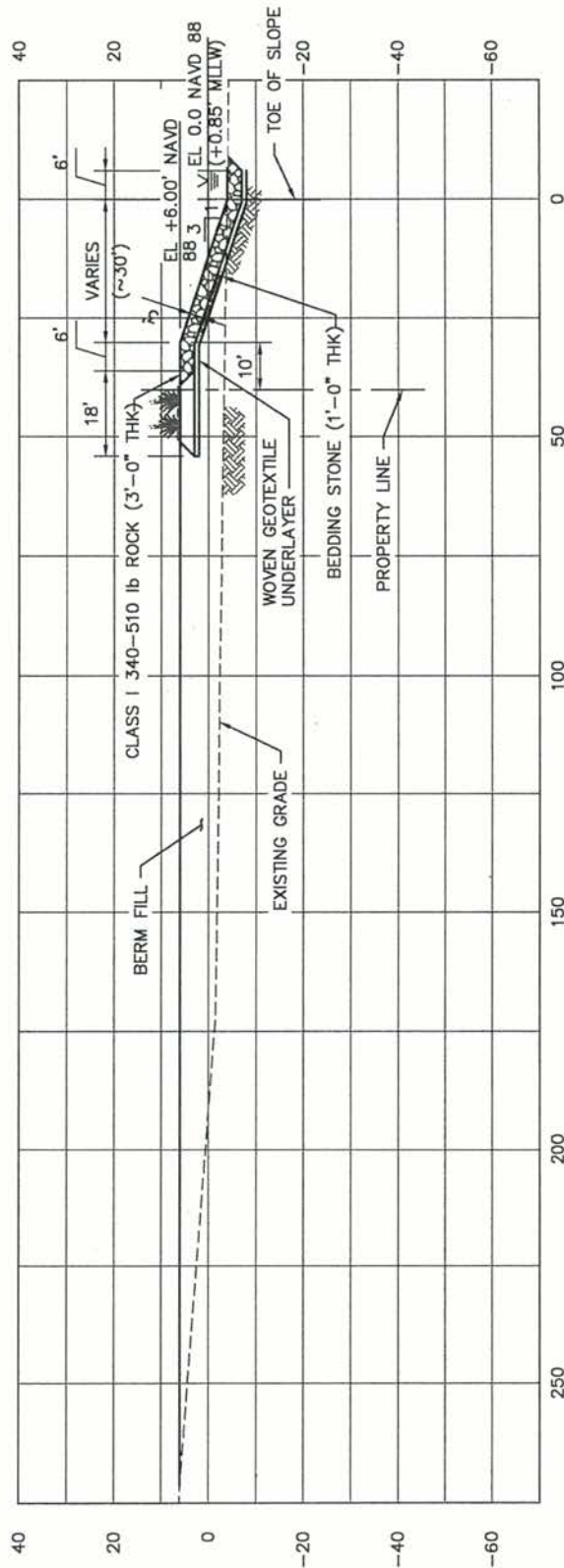
1. ALL DIMENSIONS IN FEET.

PURPOSE:
 RIO GRANDE LNG TERMINAL
 DATUM: NAVD 88

SITE SHORE PROTECTION SECTIONS
 SHEET 1 OF 2
 0 40 80
 1" = 40'
 STATE OF TEXAS
 CAMERON COUNTY

RIO GRANDE LNG TERMINAL
 BROWNSVILLE, TX
 APPLICATION BY:
 RIO GRANDE LNG, LLC
 SHEET 34 OF 48 DATE: 4/8/16

Rio Grande LNG, LLC, & Rio Bravo Pipeline, LLC
 SWG-2015-00114 Sheet 91 of 102.
 Wetlands and Brownsville Ship Channel, Kleberg,
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TYPICAL SECTION F-F
 (REF. SHEET 28/29)

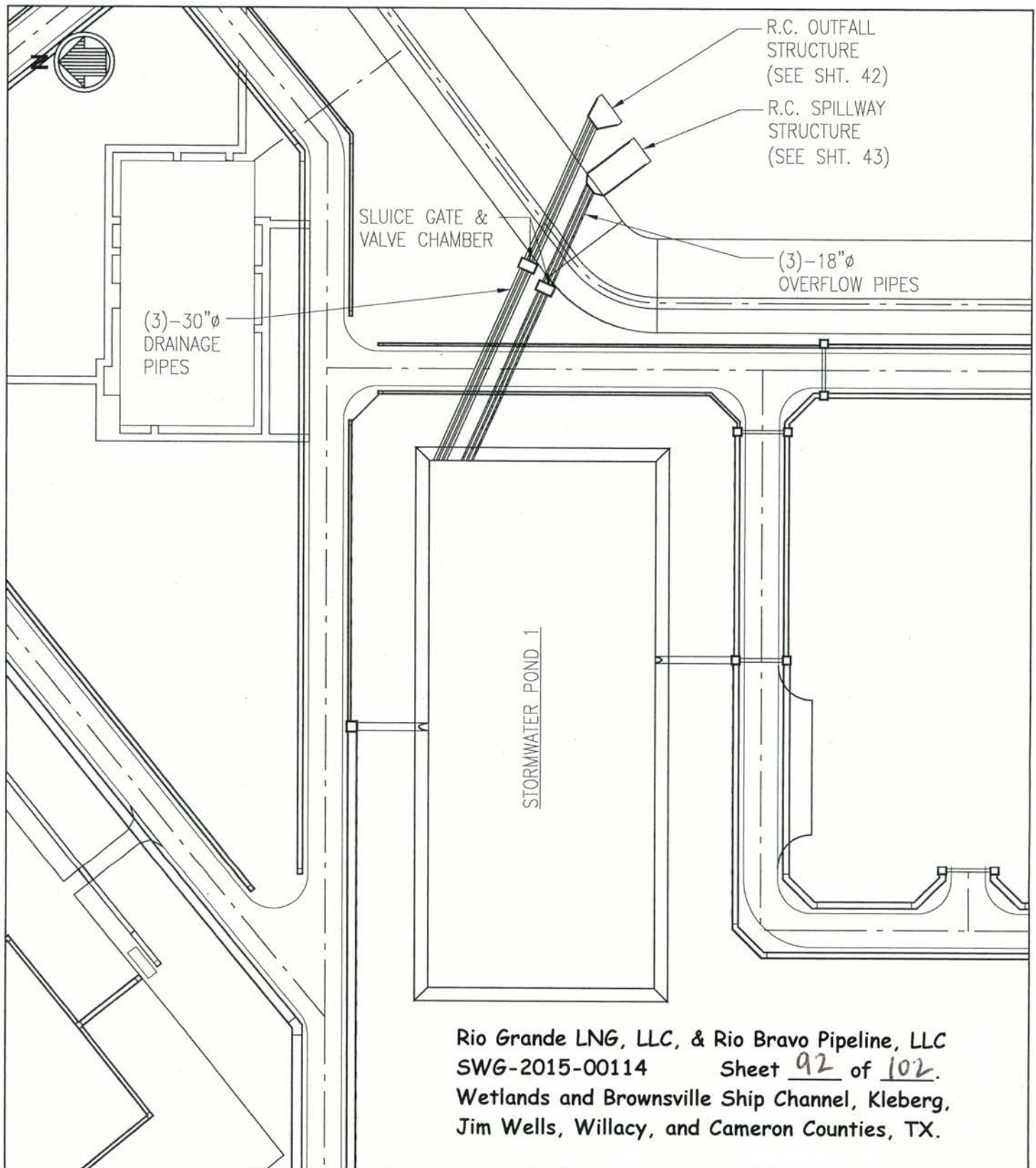
NOTES:

1. ALL DIMENSIONS IN FEET.

PURPOSE:
 RIO GRANDE LNG TERMINAL
 DATUM: NAVD 88

SITE SHORE PROTECTION SECTIONS
 SHEET 2 OF 2
 0 40 80
 1" = 40'
 STATE OF TEXAS
 CAMERON COUNTY

RIO GRANDE LNG TERMINAL
 BROWNSVILLE, TX
 APPLICATION BY:
 RIO GRANDE LNG, LLC
 SHEET 35 OF 48 DATE: 4/8/16

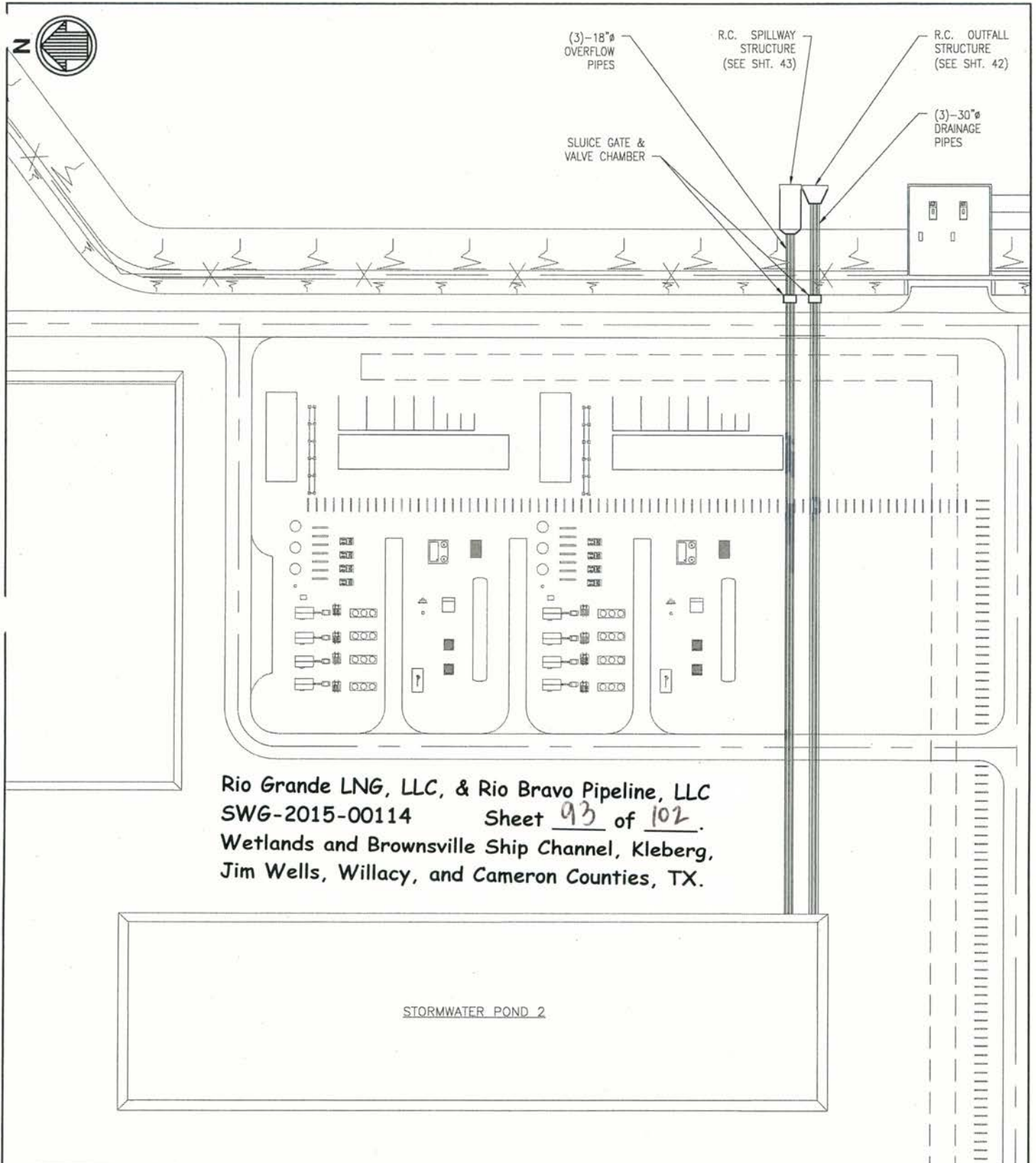


Rio Grande LNG, LLC, & Rio Bravo Pipeline, LLC
 SWG-2015-00114 Sheet 92 of 102.
 Wetlands and Brownsville Ship Channel, Kleberg,
 Jim Wells, Willacy, and Cameron Counties, TX.

PURPOSE:
 RIO GRANDE LNG TERMINAL
 DATUM: NAVD 88

STORMWATER POND 1 ENLARGED PLAN
 0 120' 240'
 1" = 120'
 STATE OF TEXAS
 CAMERON COUNTY

RIO GRANDE LNG TERMINAL
 BROWNSVILLE, TX
 APPLICATION BY:
 RIO GRANDE LNG, LLC
 SHEET 36 OF 48 DATE: 6/17/16



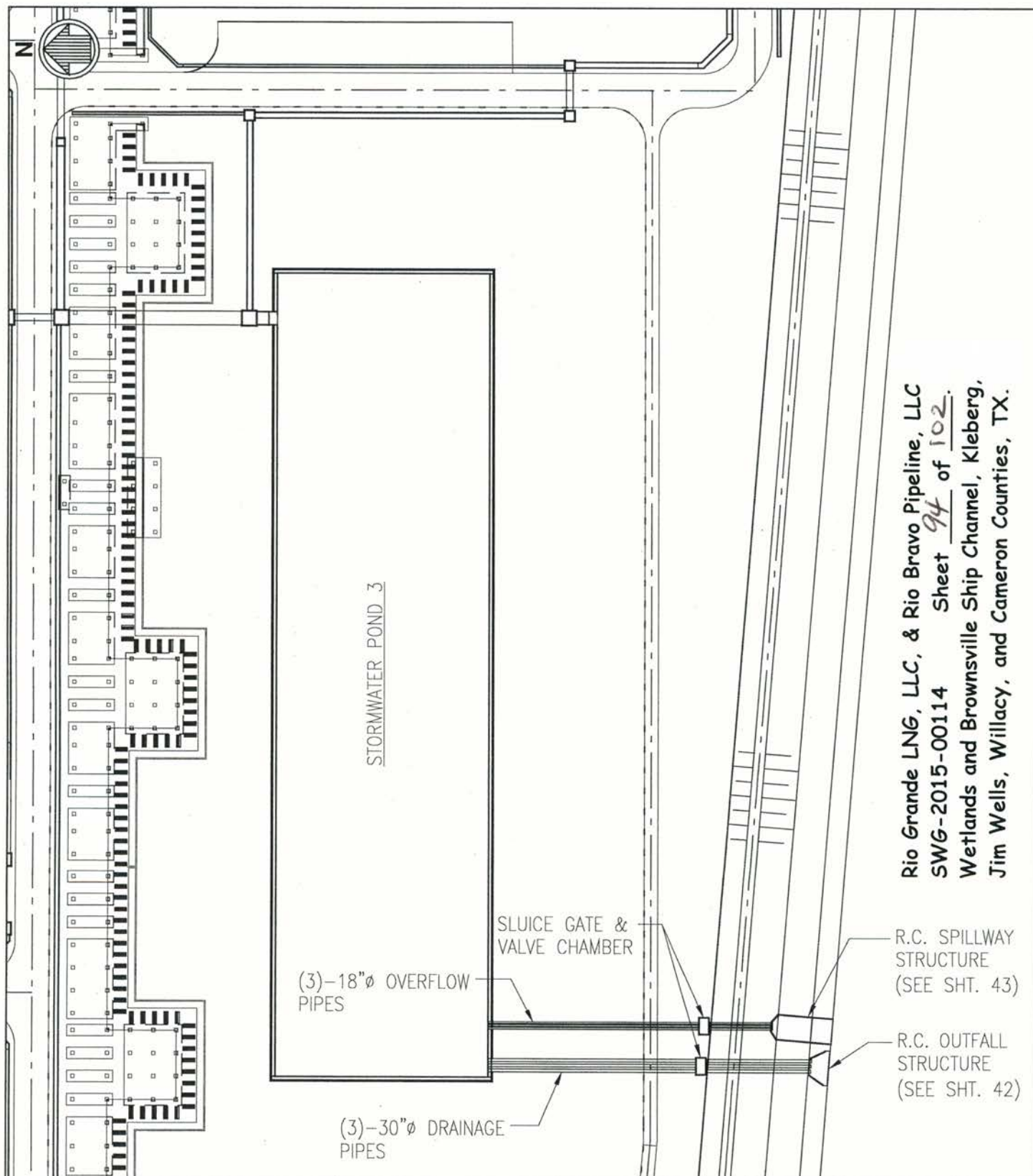
Rio Grande LNG, LLC, & Rio Bravo Pipeline, LLC
 SWG-2015-00114 Sheet 93 of 102.
 Wetlands and Brownsville Ship Channel, Kleberg,
 Jim Wells, Willacy, and Cameron Counties, TX.

STORMWATER POND 2

PURPOSE:
 RIO GRANDE LNG TERMINAL
 DATUM: NAVD 88

STORMWATER POND 2 ENLARGED PLAN
 0 120' 240'
 1" = 120'
 STATE OF TEXAS
 CAMERON COUNTY

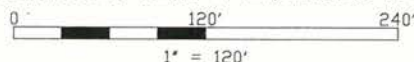
RIO GRANDE LNG TERMINAL
 BROWNSVILLE, TX
 APPLICATION BY:
 RIO GRANDE LNG, LLC
 SHEET 37 OF 48 DATE: 2/28/18



Rio Grande LNG, LLC, & Rio Bravo Pipeline, LLC
 SWG-2015-00114 Sheet 94 of 102.
 Wetlands and Brownsville Ship Channel, Kleberg,
 Jim Wells, Willacy, and Cameron Counties, TX.

PURPOSE:
 RIO GRANDE LNG TERMINAL
 DATUM: NAVD 88

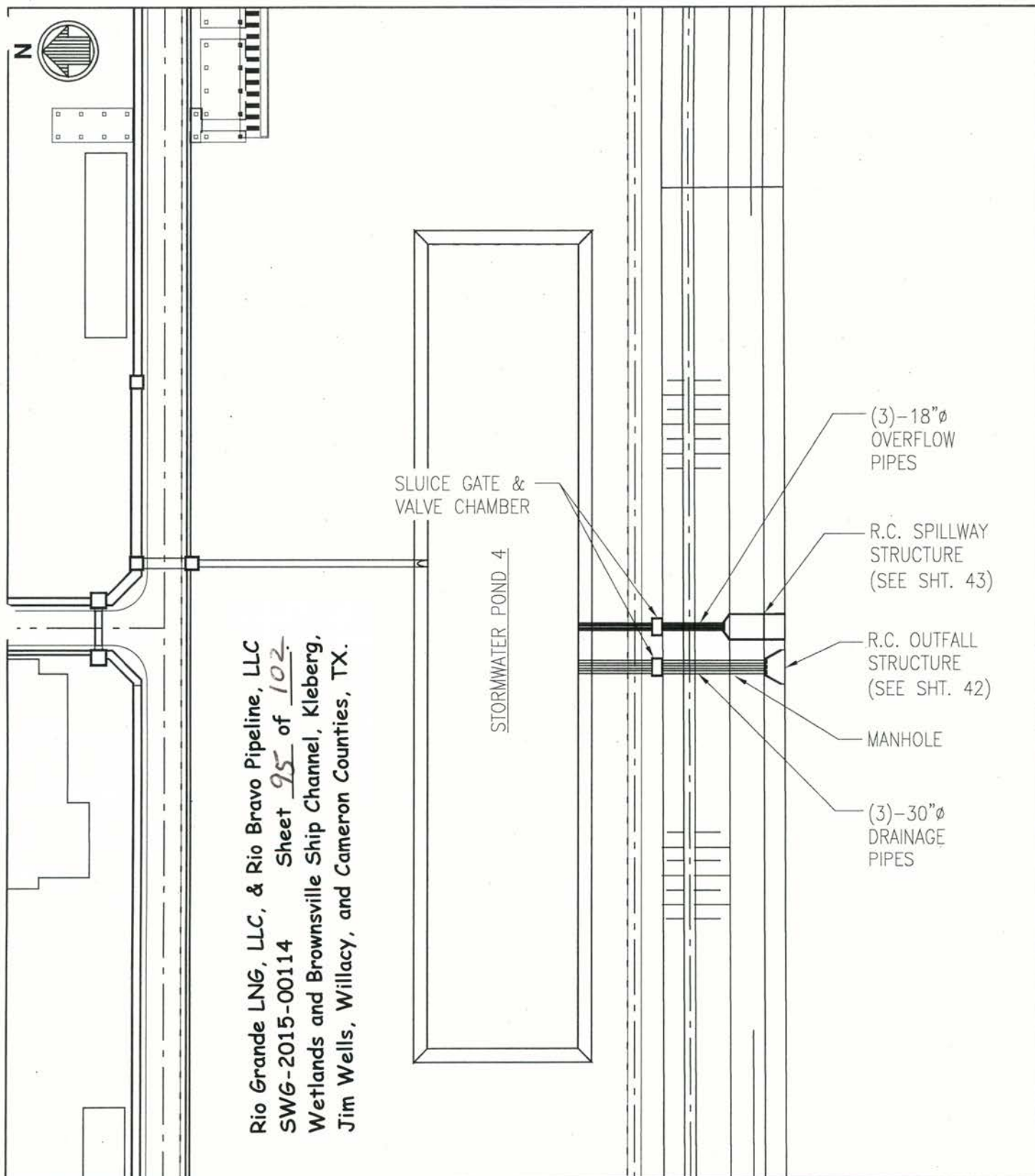
STORMWATER POND 3 ENLARGED PLAN



STATE OF TEXAS
 CAMERON COUNTY

RIO GRANDE LNG TERMINAL
 BROWNSVILLE, TX

APPLICATION BY:
 RIO GRANDE LNG, LLC
 SHEET 38 OF 48 DATE: 6/17/16



PURPOSE:
RIO GRANDE LNG TERMINAL
DATUM: NAVD 88

STORMWATER POND 4 ENLARGED PLAN

0 120' 240'

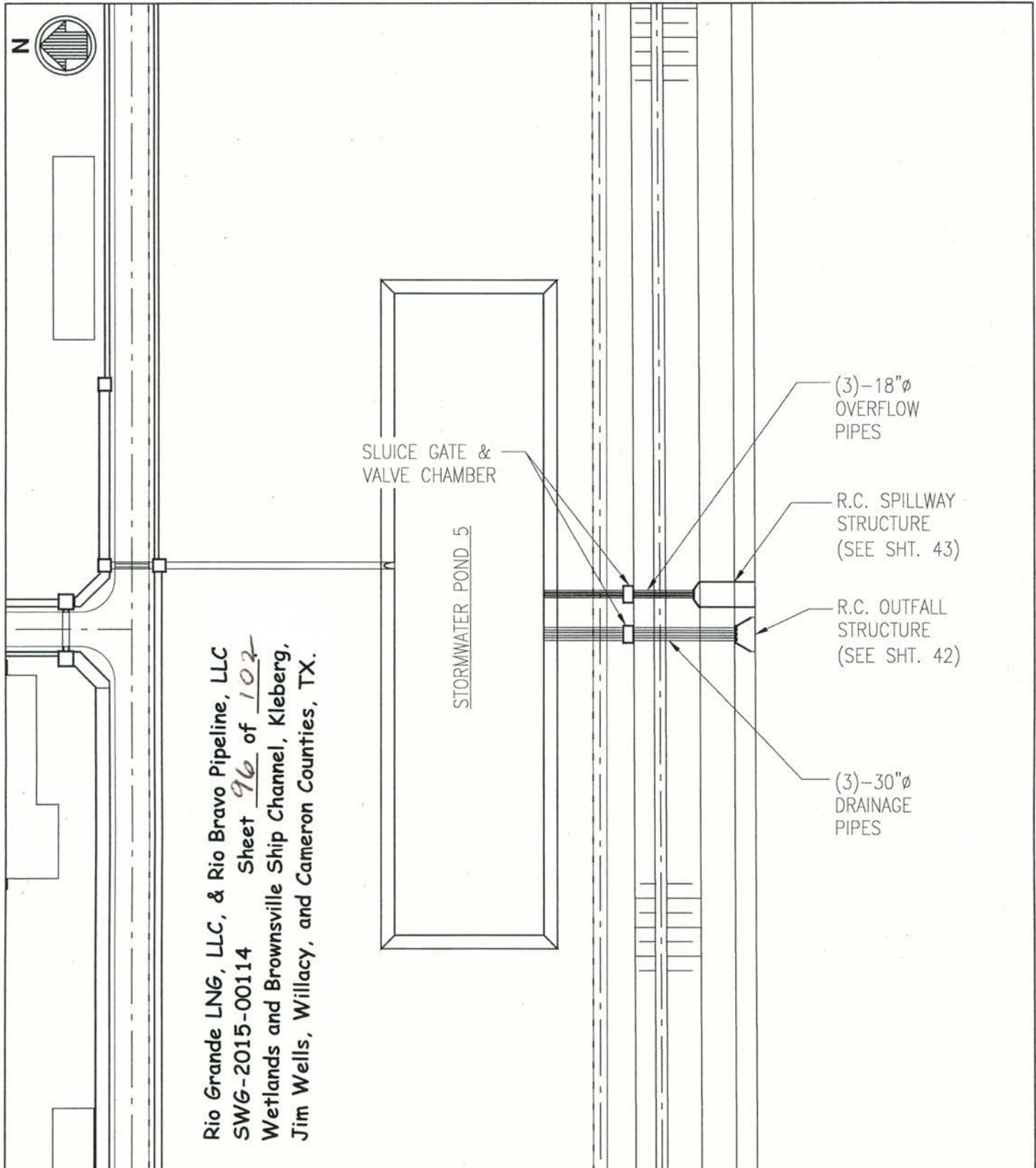
1" = 120'

STATE OF TEXAS
CAMERON COUNTY

RIO GRANDE LNG TERMINAL
BROWNSVILLE, TX

APPLICATION BY:
RIO GRANDE LNG, LLC

SHEET 39 OF 40 DATE: 6/17/16



PURPOSE:
RIO GRANDE LNG TERMINAL
DATUM: NAVD 88

STORMWATER POND 5 ENLARGED PLAN

0 120' 240'

1" = 120'
STATE OF TEXAS
CAMERON COUNTY

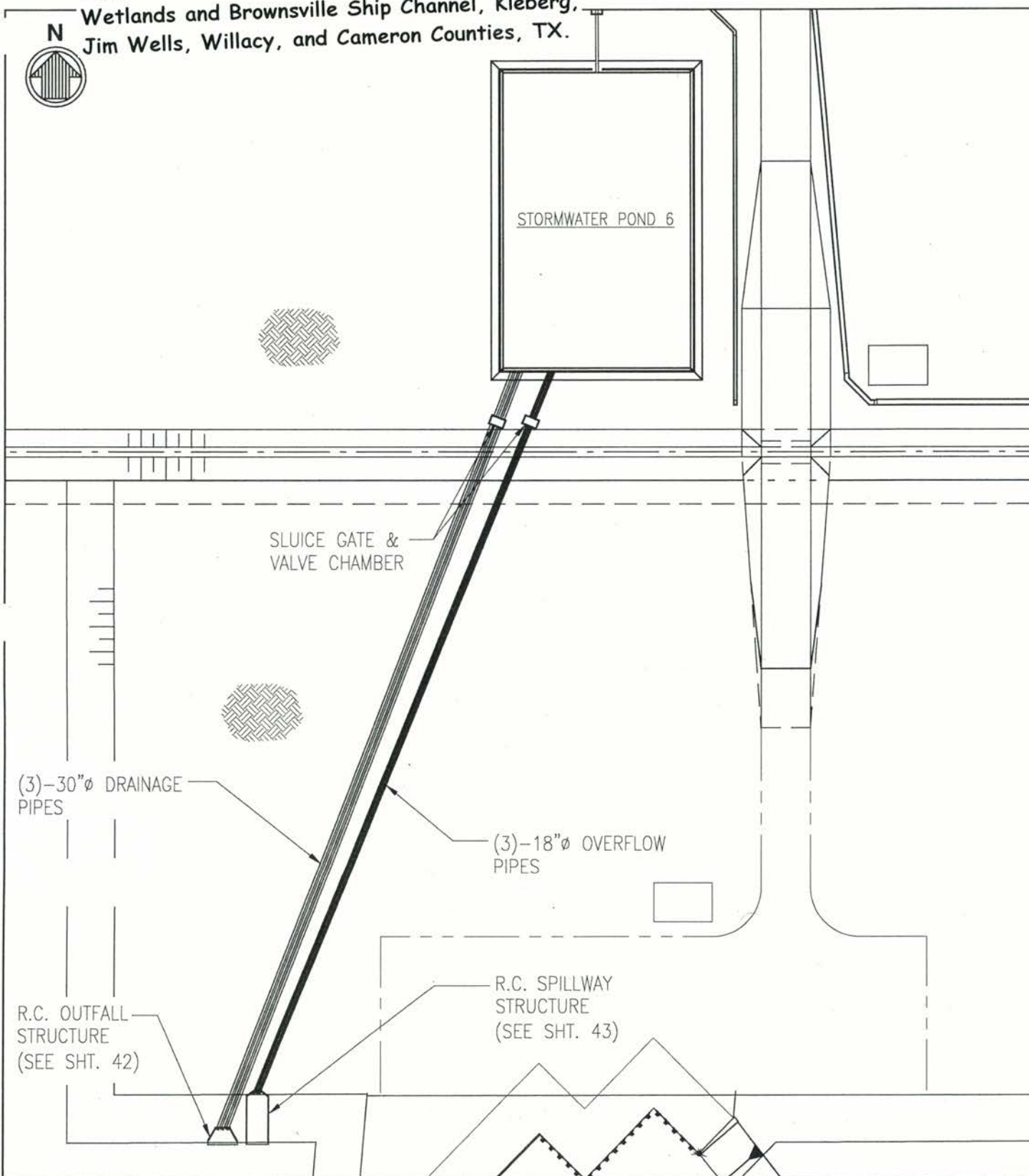
RIO GRANDE LNG TERMINAL
BROWNSVILLE, TX

APPLICATION BY:
RIO GRANDE LNG, LLC
SHEET 40 OF 48 DATE: 6/17/16

APR 13 2018

Rio Grande LNG, LLC, & Rio Bravo Pipeline, LLC
SWG-2015-00114 Sheet 97 of 102.

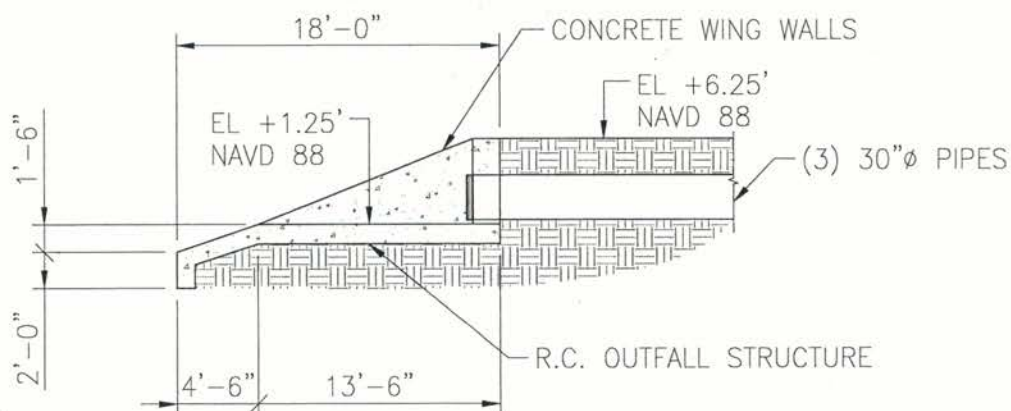
Wetlands and Brownsville Ship Channel, Kleberg,
Jim Wells, Willacy, and Cameron Counties, TX.



PURPOSE:
RIO GRANDE LNG TERMINAL
DATUM: NAVD 88

STORMWATER POND 6 ENLARGED PLAN
0 140' 280'
1" = 140'
STATE OF TEXAS
CAMERON COUNTY

RIO GRANDE LNG TERMINAL
BROWNSVILLE, TX
APPLICATION BY:
RIO GRANDE LNG, LLC
SHEET 41 OF 48 DATE: 6/17/16



SECTION - 30" DIA. DISCHARGE PIPE SPILLWAY

$\frac{3}{32}'' = 1'-0''$

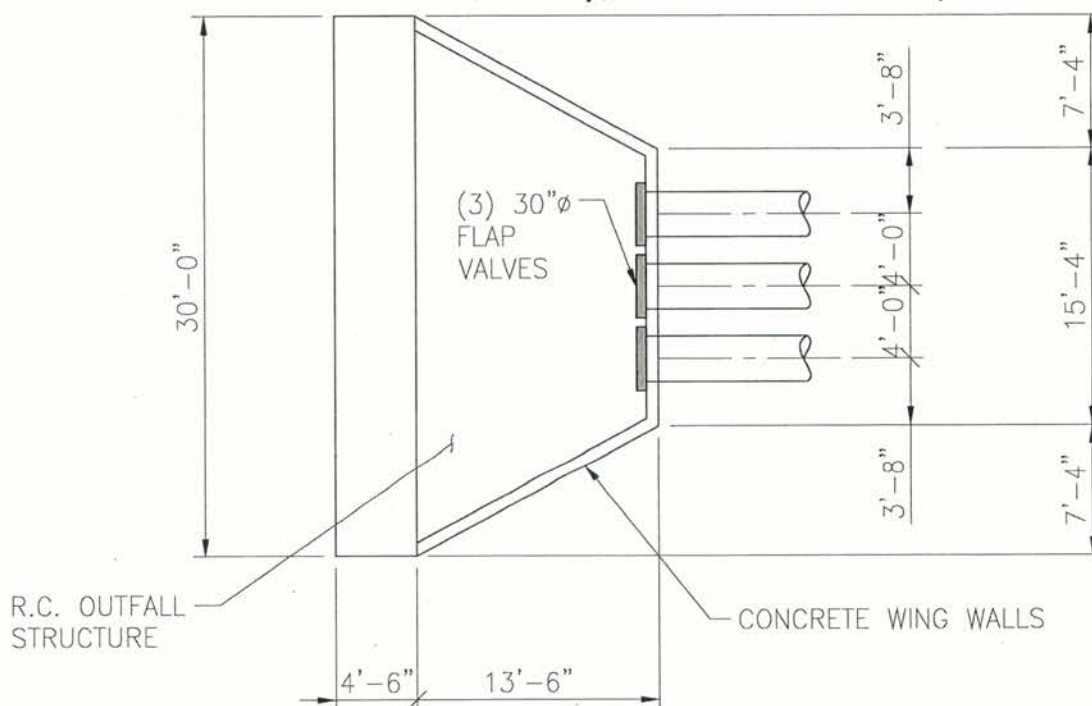
Rio Grande LNG, LLC, & Rio Bravo Pipeline, LLC

SWG-2015-00114

Sheet 98 of 102

Wetlands and Brownsville Ship Channel, Kleberg,

Jim Wells, Willacy, and Cameron Counties, TX.

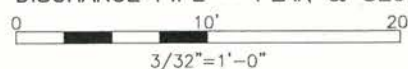


PLAN - 30" DIA. DISCHARGE PIPE SPILLWAY

$\frac{3}{32}'' = 1'-0''$

PURPOSE:
RIO GRANDE LNG TERMINAL
DATUM: NAVD 88

30" DISCHARGE PIPE - PLAN & SECTION

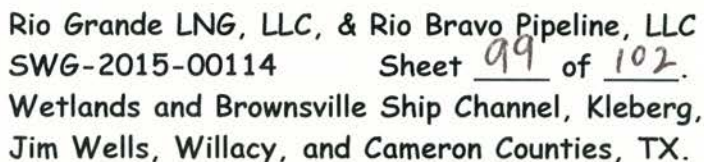
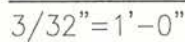


STATE OF TEXAS
CAMERON COUNTY

RIO GRANDE LNG TERMINAL
BROWNSVILLE, TX

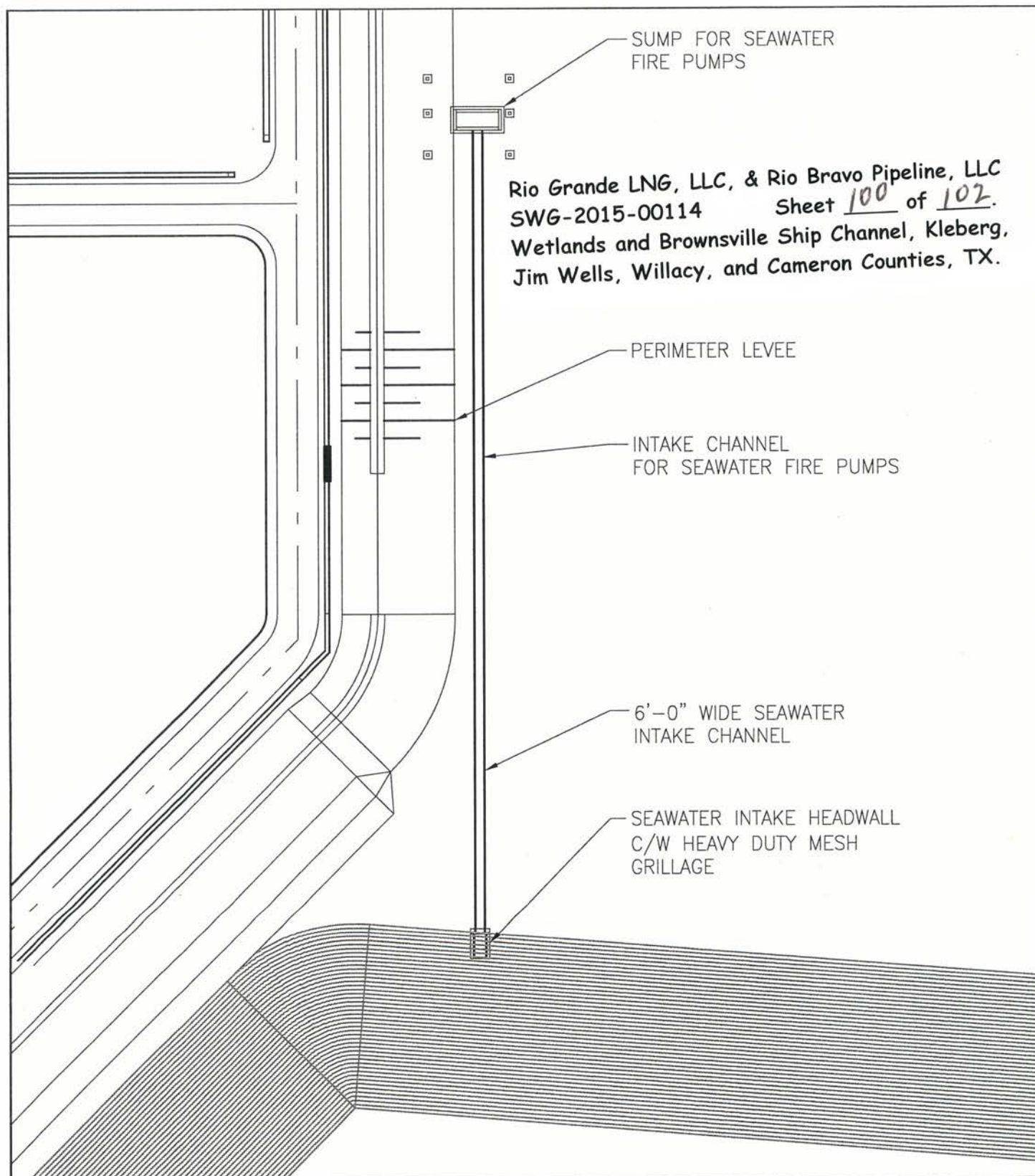
APPLICATION BY:
RIO GRANDE LNG, LLC

SHEET 42 OF 48 DATE: 4/8/16


$$3/32'' = 1' - 0''$$


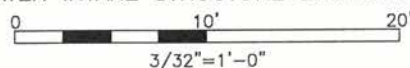
APPLICATION BY:
RIO GRANDE LNG, LLC

SHEET 43 OF 48 DATE: 4/8/16



PURPOSE:
RIO GRANDE LNG TERMINAL
DATUM: NAVD 88

FIREWATER INTAKE STRUCTURE ENLARGED PLAN

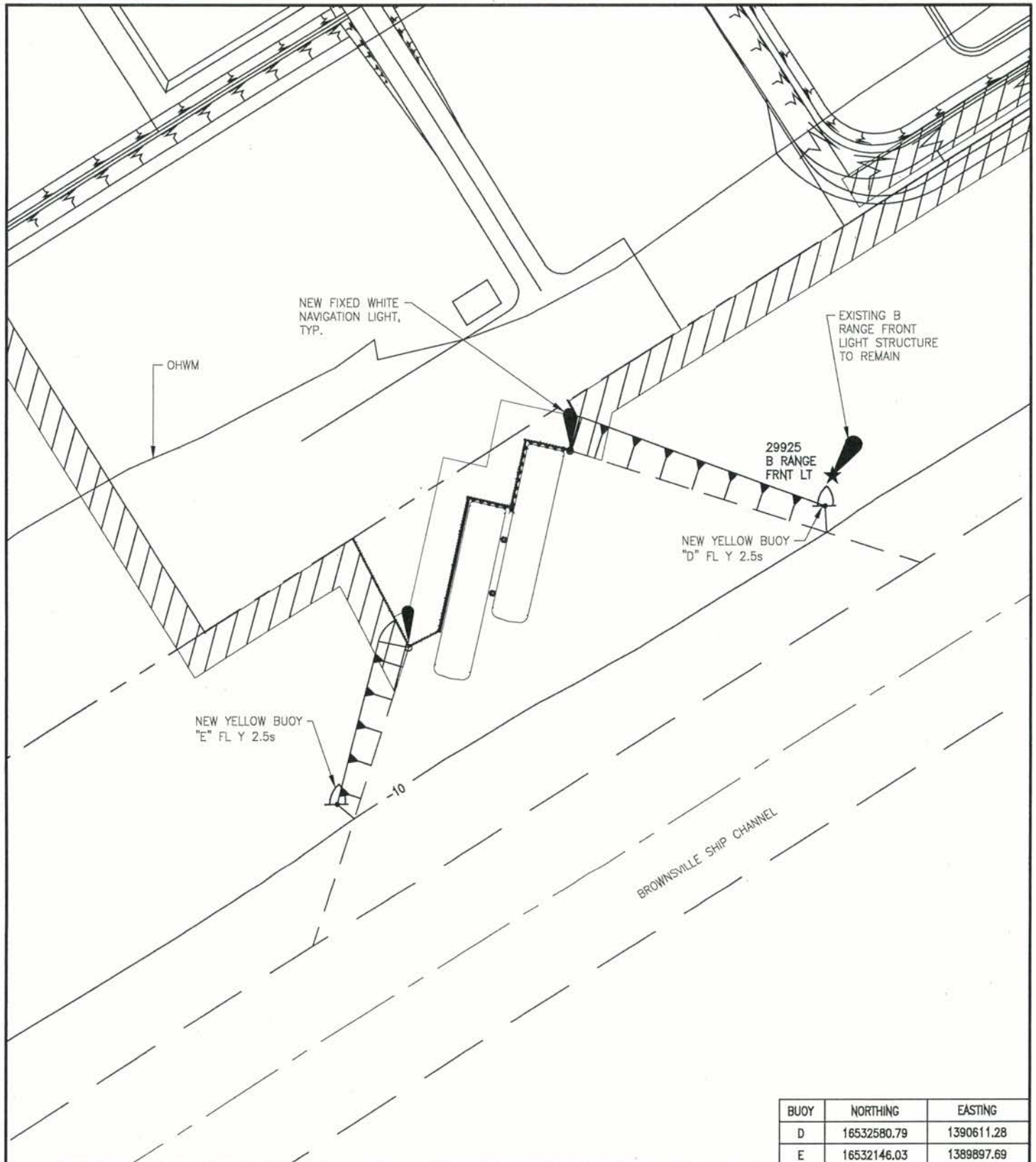


STATE OF TEXAS
CAMERON COUNTY

RIO GRANDE LNG TERMINAL
BROWNSVILLE, TX

APPLICATION BY:
RIO GRANDE LNG, LLC
SHEET 44 OF 48 DATE: 4/8/16

APR 13 2018



BUOY	NORTHING	EASTING
D	16532580.79	1390611.28
E	16532146.03	1389897.69

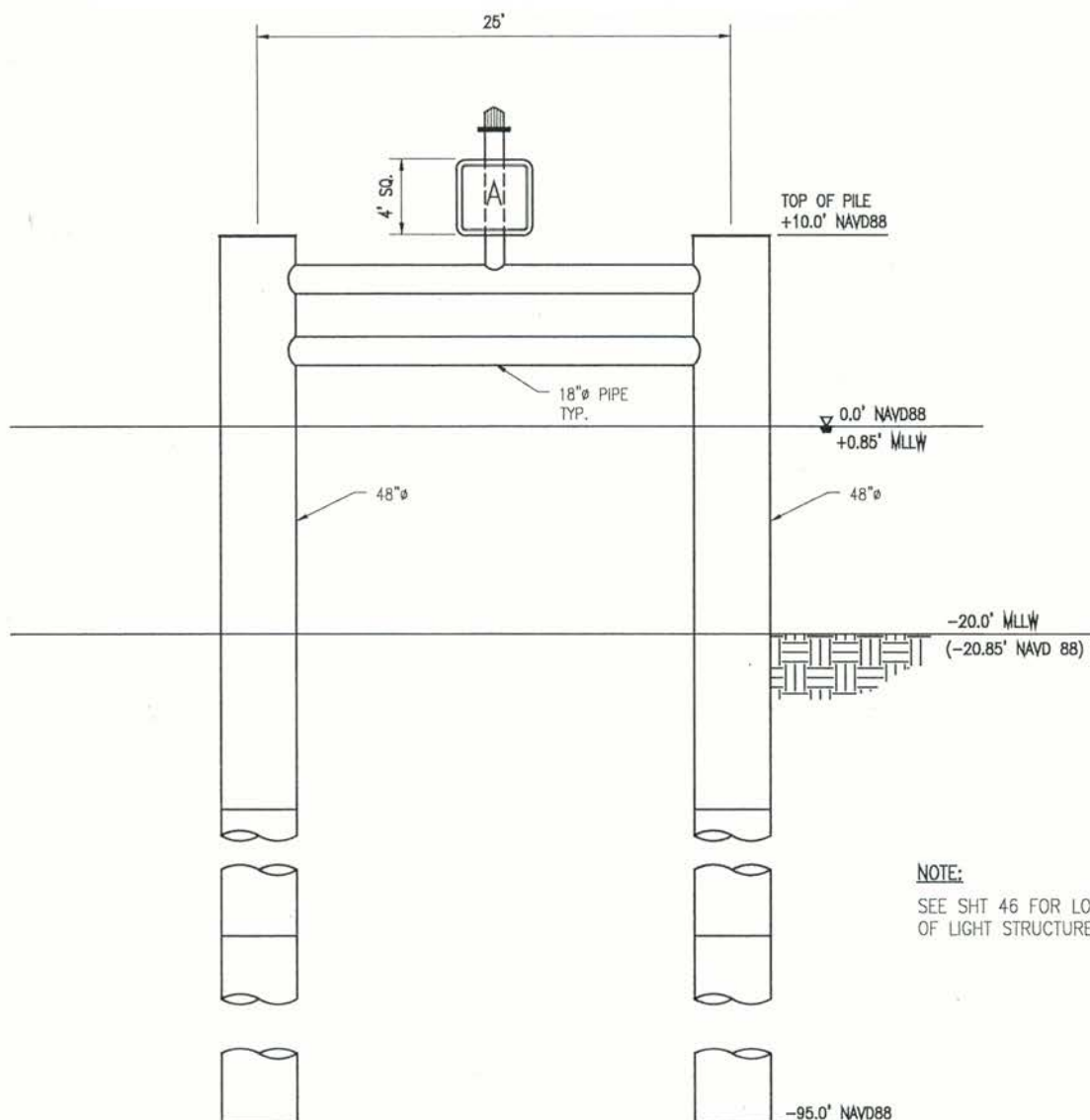
PURPOSE:
 RIO GRANDE LNG TERMINAL
 DATUM: NAVD 88

AIDS TO NAVIGATION PLAN — MOF AREA
 0 100' 200'
 1"=200'
 STATE OF TEXAS
 CAMERON COUNTY

RIO GRANDE LNG TERMINAL
 BROWNSVILLE, TX
 APPLICATION BY:
 RIO GRANDE LNG, LLC
 SHEET 47 OF 48 DATE: 4/8/16

APR 13 2018

Rio Grande LNG, LLC, & Rio Bravo Pipeline, LLC
SWG-2015-00114 Sheet 102 of 102.
Wetlands and Brownsville Ship Channel, Kleberg,
Jim Wells, Willacy, and Cameron Counties, TX.



AID TO NAVIGATION LIGHT STRUCTURE

1"=10'-0"

PURPOSE:
RIO GRANDE LNG TERMINAL
DATUM: NAVD 88

AID TO NAVIGATION LIGHT STRUCTURE

SCALE: 1" = 10'-0"

STATE OF TEXAS
CAMERON COUNTY

RIO GRANDE LNG TERMINAL
BROWNSVILLE, TX
APPLICATION BY:
RIO GRANDE LNG, LLC
SHEET 48 OF 48 DATE: 6/17/16