Table 1: Wetland and Water of the US Impacts

Port Arthur LNG
Jurisdictional Impacts

PALNG Terminal*

	Impact Type		
Wetland Type	**Temporary**	**Permanent**	**Total**
Palustrine Emergent (PEM)	63.3	332.5	395.8
Palustrine Scrub-Shrub (PSS)	53.0	417.5	470.5
Estuarine (all classes)	0.0	21.2	21.2
Terminal Wetland Total	116.3	771.2	887.5
Open Water	76.1	3.5	79.6
Terminal Open Water Total	76.1	3.5	79.6
Terminal Jurisdictional Total	192.4	774.7	967.1

Texas Connector*

	Impact Type		
Wetland Type	**Temporary**	**Permanent**	**Total**
Palustrine Emergent (PEM)	141.5	0.0	141.5
Palustrine Scrub-Shrub (PSS)	20.2	0.3	20.5
Estuarine (all classes)	43.4	3.1	46.5
Palustrine Forested (PFO)	29.6	0.0	29.6
TX Connector Wetland Total	234.7	3.4	238.1
Open Water	76.1	3.5	79.6
TX Connector Open Water Total	76.1	3.5	79.6
TX Connector Jurisdictional Total	310.8	6.9	317.7

Louisiana Connector*

	Impact Type		
Wetland Type	**Temporary**	**Permanent**	**Total**
Palustrine Emergent (PEM)	273.82	9.99	283.81
Palustrine Scrub-Shrub (PSS)	30.35	5.93	36.28
Estuarine (all classes)	142.68	1.10	143.78
Palustrine Forested (PFO)	104.39	68.65	173.04
TX Connector Wetland Total	551.24	85.67	636.91
Open Water	0.00	0.00	0.00
TX Connector Open Water Total	0.00	0.00	0.00
Terminal Jurisdictional Total	551.24	85.67	636.91

* Impact calculations deviate from those submitted in the FERC application. PALNG will be required to submit updated wetland impact data for the projects to ensure accuracy and consistency.

Table 1: Wetland and Water of the US Impacts

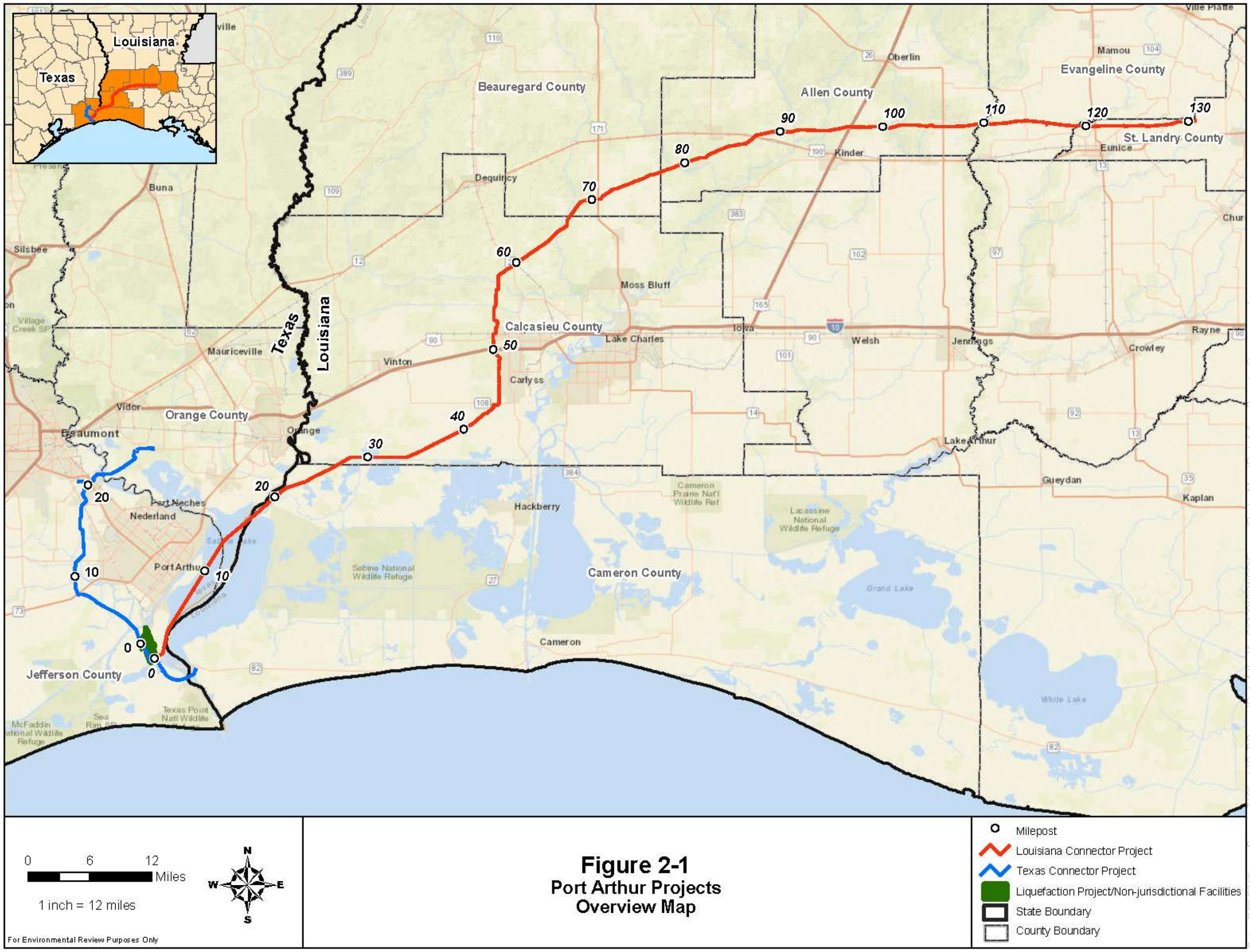
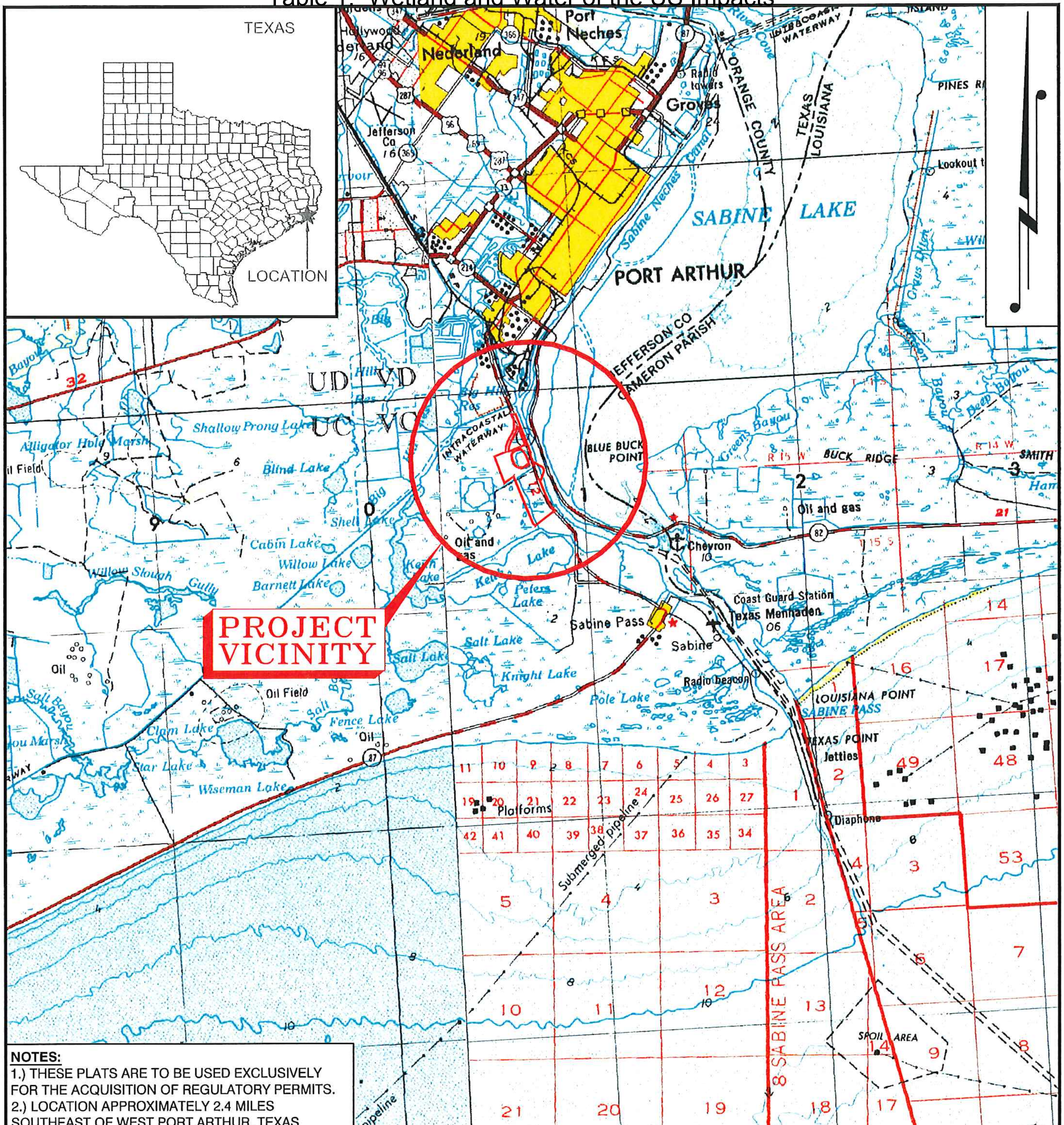


Figure 2-1
Port Arthur Projects Overview Map

Permit Drawings for Port Arthur Liquefaction Project

Table 1: Wetland and Water of the US Impacts



NOTES:
1.) THESE PLATS ARE TO BE USED EXCLUSIVELY FOR THE ACQUISITION OF REGULATORY PERMITS.
2.) LOCATION APPROXIMATELY 2.4 MILES SOUTHEAST OF WEST PORT ARTHUR, TEXAS

DRAWN BY: RRB	APPROVED BY: BST	VICINITY MAP
DATE: 07/14/2016	JOB NO: 2015.0077	PROPOSED PORT ARTHUR LIQUEFACTION PROJECT
DRAWING NAME: 150077_C1_REV10.DWG		ABSTRACT NOS. 12, 71, 123, 185, 251, 331, 438, 488, 770, 780, & 927 JEFFERSON COUNTY, TEXAS
SHEET NO: 1	OF 14	
PROJECTION: TEXAS SOUTH CENTRAL GEO. DATUM: NAD83 | VERT. DATUM: NAVD88 GRID UNITS: US SURVEY FEET		

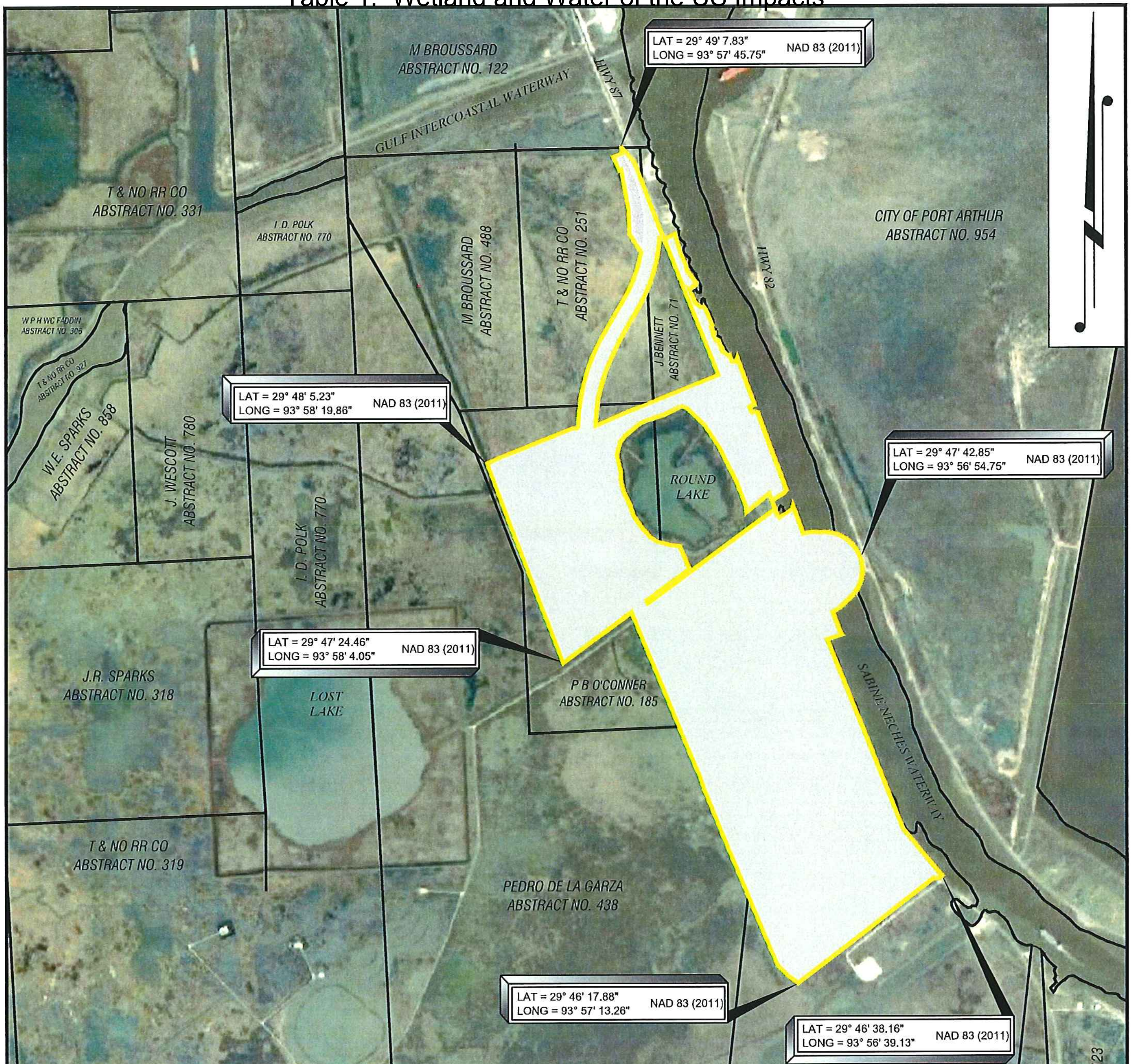
SCALE: 1" = 4 MILES
4 MI 2 MI 0' 4 MI

T. BAKER SMITH
SOLUTIONS START HERE
107 Global Circle, Lafayette, LA 70503
(337)735-2800 · tbsmith.com

REV. NO: 10	REV. DATE: 03/06/18	REV. BY: EAA
REVISION DESCRIPTION: REVISED CROSS SECTIONS.		

3/6/2018 - P:\Y-2015\2015.0077\DWG\COE - ACTIVE\REV 10\150077_C1_REV10.DWG

Table 1: Wetland and Water of the US Impacts



NOTE:
1.) THESE PLATS ARE TO BE USED EXCLUSIVELY FOR THE ACQUISITION OF REGULATORY PERMITS.

LEGEND:
PROJECT BOUNDARY

DRAWN BY: RRB	APPROVED BY: BST	AREA MAP
DATE: 07/14/2016	JOB NO: 2015.0077	PROPOSED PORT ARTHUR LIQUEFACTION PROJECT
DRAWING NAME: 150077_C2_REV10.DWG		ABSTRACT NOS. 12, 71, 123, 185, 251, 331, 438, 488, 770, 780, & 927 JEFFERSON COUNTY, TEXAS
SHEET NO: 2 OF 14		
PROJECTION: TEXAS SOUTH CENTRAL GEO. DATUM: NAD83 | VERT. DATUM: NAVD88 GRID UNITS: US SURVEY FEET		

SCALE: 1" = 3000'
3000' 1500' 0' 3000'

T. BAKER SMITH
SOLUTIONS START HERE
107 Global Circle, Lafayette, LA 70503
(337)735-2800 - tbsmith.com

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REVISION DESCRIPTION: REVISED CROSS SECTIONS.		

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Table 1: Wetland and Water of the US Impacts

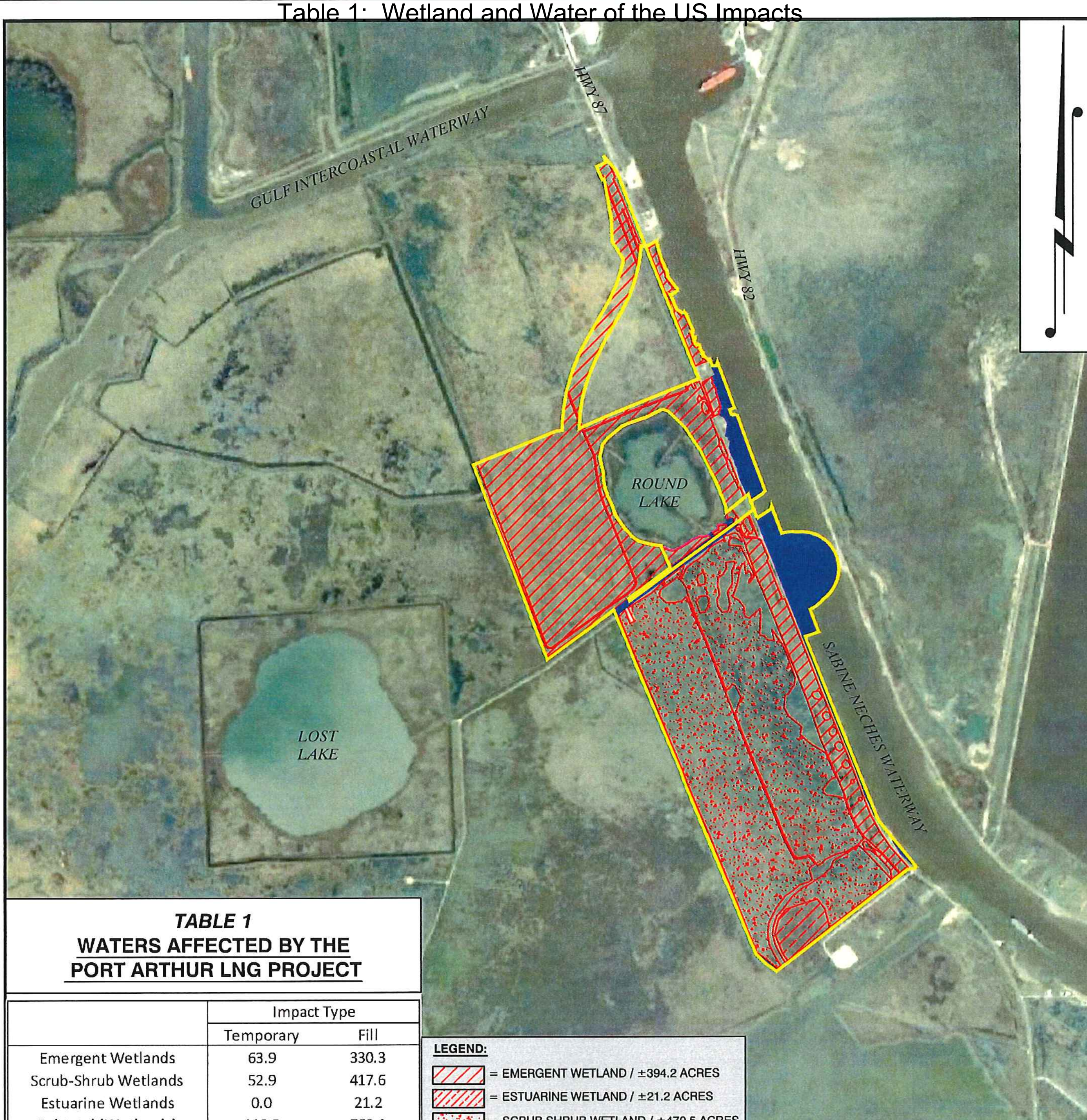

TABLE 1
WATERS AFFECTED BY THE PORT ARTHUR LNG PROJECT

	Impact Type	
	Temporary	Fill
Emergent Wetlands	63.9	330.3
Scrub-Shrub Wetlands	52.9	417.6
Estuarine Wetlands	0.0	21.2
Subtotal (Wetlands)	**116.8**	**769.1**
Open Water	76.1	3.5
Total	**192.9**	**772.6**

LEGEND:
- = EMERGENT WETLAND / ±394.2 ACRES
- = ESTUARINE WETLAND / ±21.2 ACRES
- = SCRUB SHRUB WETLAND / ±470.5 ACRES
- = WATER ±81.1 ACRES
- WORK AREA BOUNDARY

NOTE:
1.) THESE PLATS ARE TO BE USED EXCLUSIVELY FOR THE ACQUISITION OF REGULATORY PERMITS.

DRAWN BY: RRB	APPROVED BY: BST		
DATE: 07/14/2016	JOB NO: 2015.0077		
DRAWING NAME: 150077_C3_REV10.DWG			
SHEET NO: 3 OF 14			

USACE WETLANDS MAP

PROPOSED PORT ARTHUR LIQUEFACTION PROJECT

ABSTRACT NOS. 12, 71, 123, 185, 251,
331, 438, 488, 770, 780, & 927
JEFFERSON COUNTY, TEXAS

PROJECTION: TEXAS SOUTH CENTRAL
GEO. DATUM: NAD83 | VERT. DATUM: NAVD88
GRID UNITS: US SURVEY FEET

SCALE: 1" = 3000'
3000' 1500' 0' 3000'

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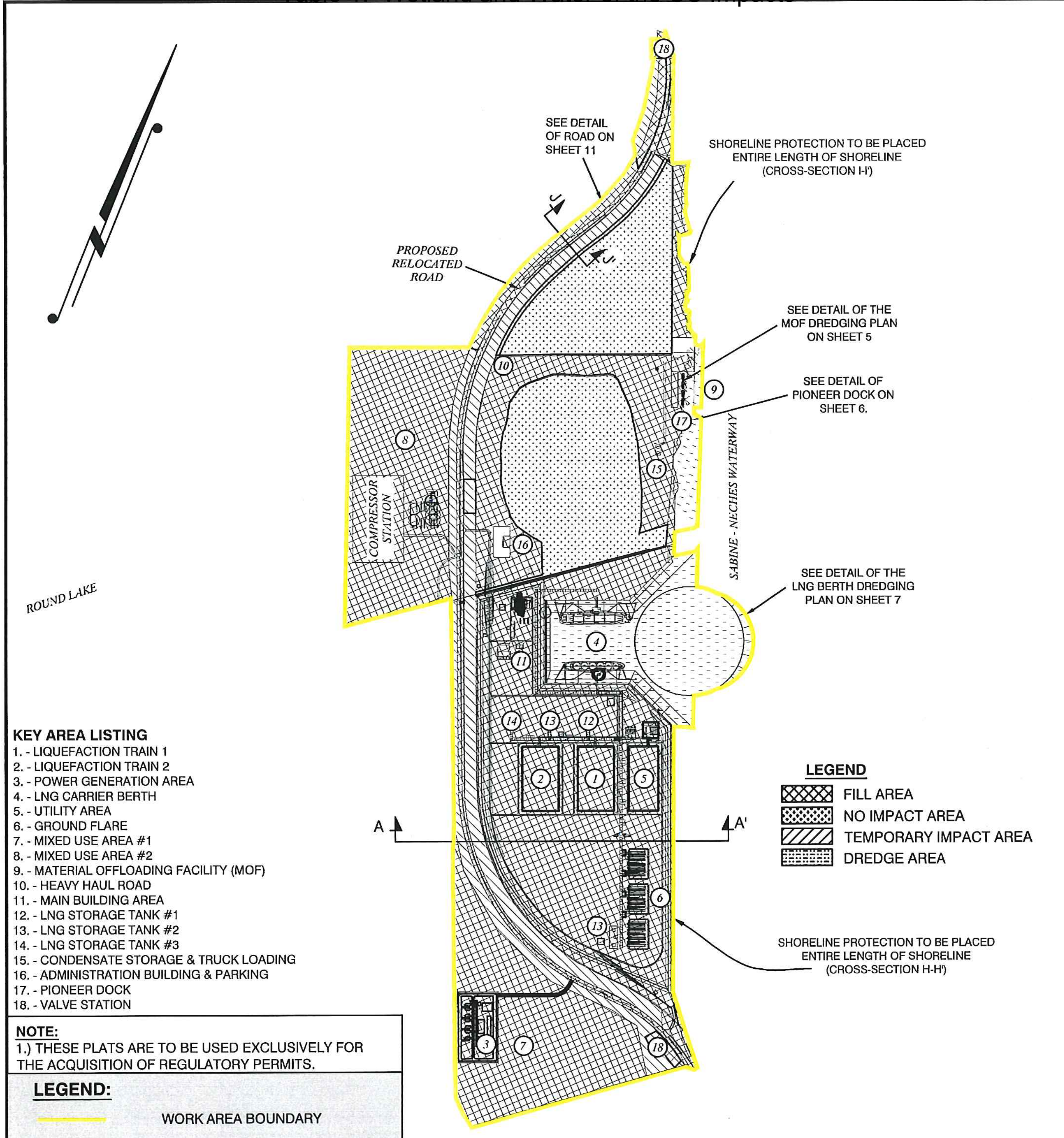
REV. NO: 10	REV. DATE: 03/06/18	REV. BY: EAA
REVISION DESCRIPTION: REVISED CROSS SECTIONS.		

3/6/2018 - P:\Y-2015\2015.0077\DWG\COE - ACTIVE\REV 10\150077_C3_REV10.DWG

Table 1: Wetland and Water of the US Impacts



DRAWN BY: RRB	APPROVED BY: BST
DATE: 07/14/2016	JOB NO: 2015.0077
DRAWING NAME: 150077_C4_REV10.DWG	
SHEET NO: 4 OF 14	
PROJECTION: TEXAS SOUTH CENTRAL GEO. DATUM: NAD83 | VERT. DATUM: NAVD88 GRID UNITS: US SURVEY FEET	
SCALE: 1" = 2000' 2000' 1000' 0' 2000'	

PLAN VIEW

PROPOSED PORT ARTHUR LIQUEFACTION PROJECT

ABSTRACT NOS. 12, 71, 123, 185, 251,
331, 438, 488, 770, 780, & 927
JEFFERSON COUNTY, TEXAS

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107 Global Circle, Lafayette, LA 70503
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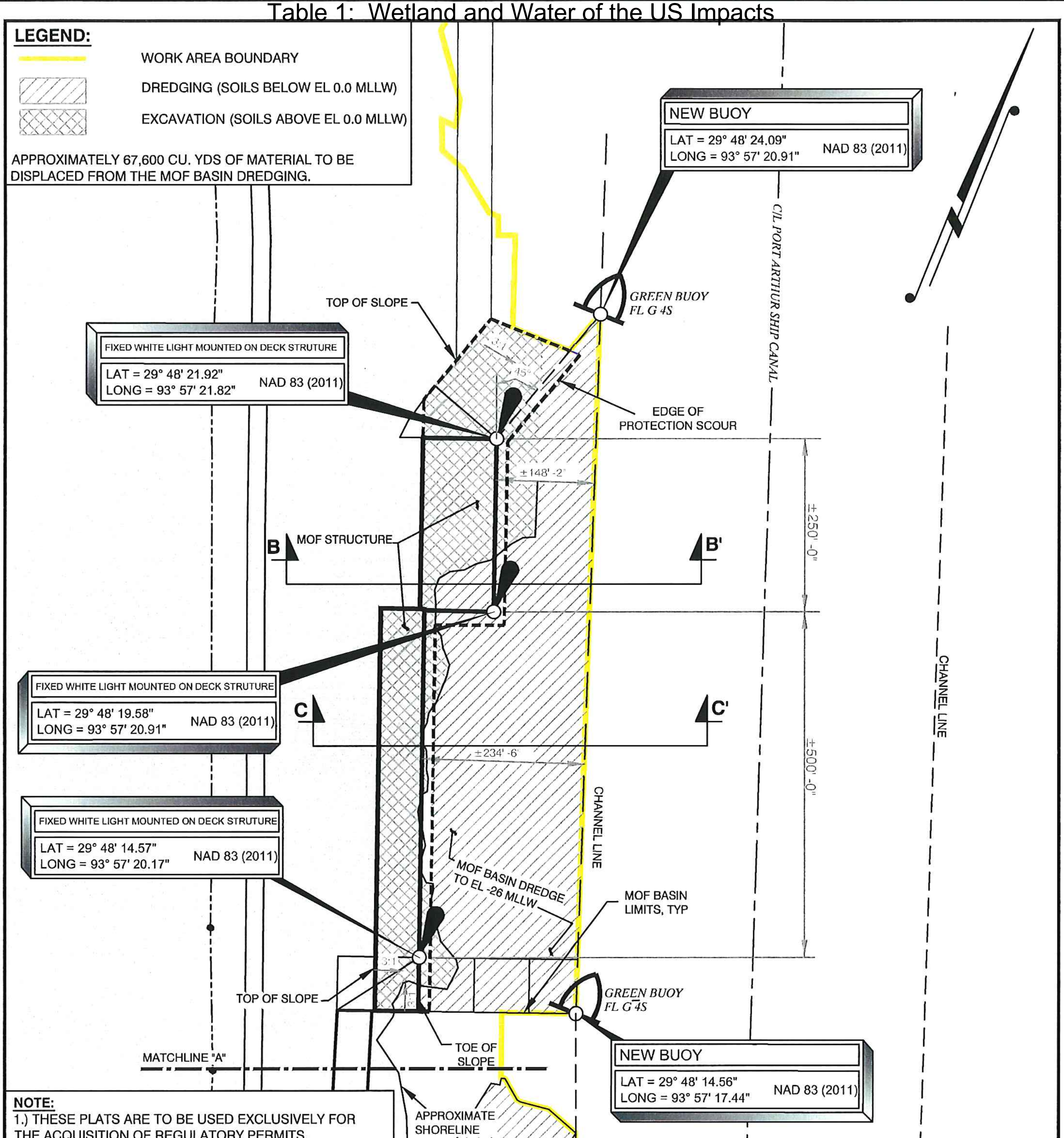
REV. NO: 10	REV. DATE: 03/06/18	REV. BY: EAA
REVISION DESCRIPTION: REVISED CROSS SECTIONS.		

Table 1: Wetland and Water of the US Impacts



NOTE:
1.) THESE PLATS ARE TO BE USED EXCLUSIVELY FOR THE ACQUISITION OF REGULATORY PERMITS.

DRAWN BY: RRB	APPROVED BY: BST	MOF DREDGING PLAN	
DATE: 07/14/2016	JOB NO: 2015.0077	PROPOSED PORT ARTHUR LIQUEFACTION PROJECT	
DRAWING NAME: 150077_C5_REV10.DWG		ABSTRACT NOS. 12, 71, 123, 185, 251, 331, 438, 488, 770, 780, & 927 JEFFERSON COUNTY, TEXAS	
SHEET NO: 5 OF 14			
PROJECTION: TEXAS SOUTH CENTRAL GEO. DATUM: NAD83 | VERT. DATUM: NAVD88 GRID UNITS: US SURVEY FEET			
SCALE: 1" = 200' 200' 100' 0' 200'		T. BAKER SMITH SOLUTIONS START HERE 107 Global Circle, Lafayette, LA 70503 (337)735-3800 · tbsmith.com	REV. NO: 10 REV. DATE: 03/06/18 REV. BY: EAA REVISION DESCRIPTION: REVISED CROSS SECTIONS.

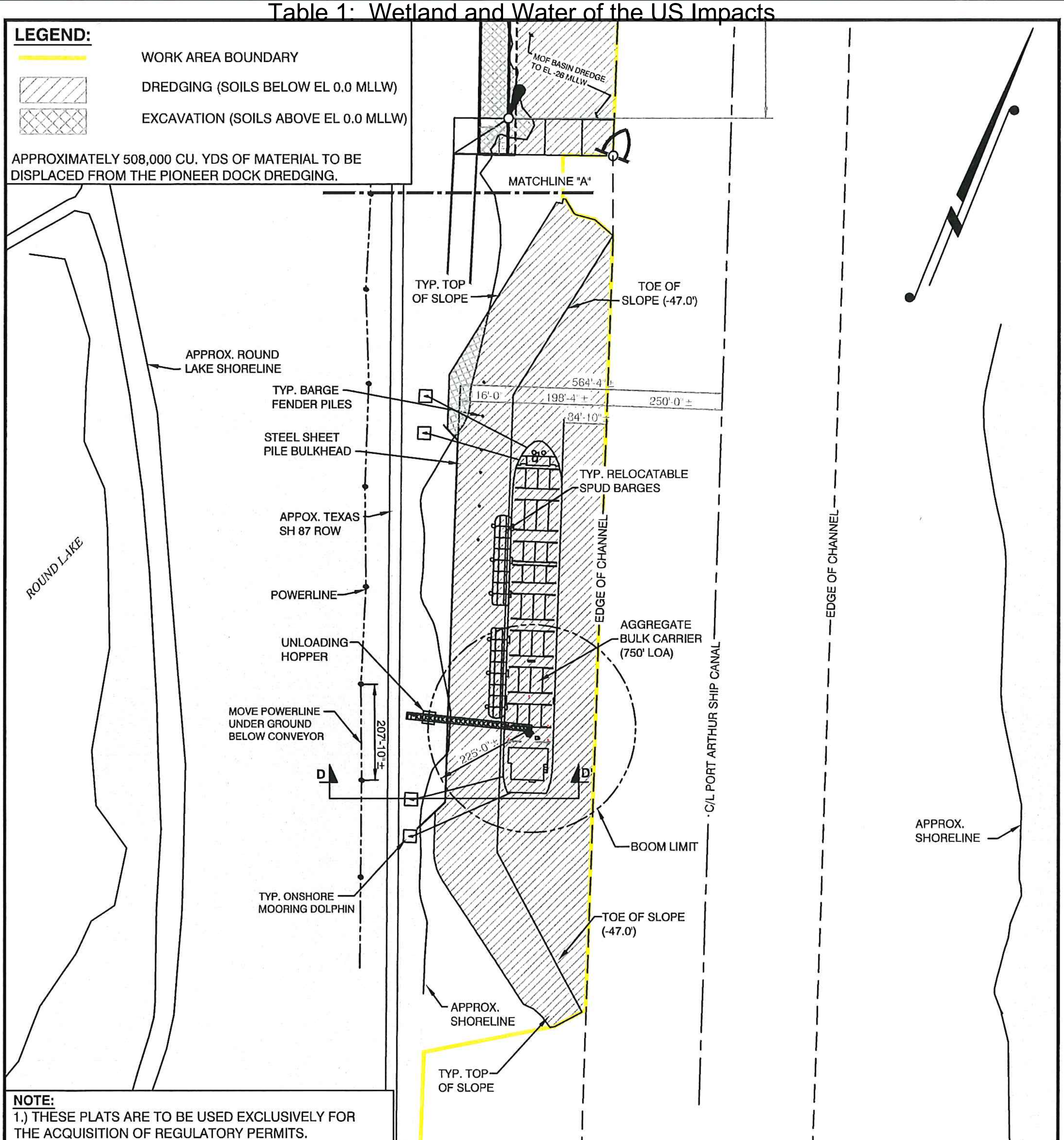
3/6/2018 - P:\Y-2015\2015.0077\DWG\COE - ACTIVE\REV 10\150077_C5_REV10.DWG

Table 1: Wetland and Water of the US Impacts

LEGEND:

- WORK AREA BOUNDARY
- DREDGING (SOILS BELOW EL 0.0 MLLW)
- EXCAVATION (SOILS ABOVE EL 0.0 MLLW)

APPROXIMATELY 508,000 CU. YDS OF MATERIAL TO BE DISPLACED FROM THE PIONEER DOCK DREDGING.



NOTE:
1.) THESE PLATS ARE TO BE USED EXCLUSIVELY FOR THE ACQUISITION OF REGULATORY PERMITS.

DRAWN BY: RRB	APPROVED BY: BST
DATE: 07/14/2016	JOB NO: 2015.0077
DRAWING NAME: 150077_C5_REV10.DWG	
SHEET NO: 6 OF 14	

PROJECTION: TEXAS SOUTH CENTRAL
GEO. DATUM: NAD83 | VERT. DATUM: NAVD88
GRID UNITS: US SURVEY FEET

SCALE: 1" = 300'
300' 150' 0' 300'

PIONEER DOCK PLAN

PROPOSED PORT ARTHUR LIQUEFACTION PROJECT

ABSTRACT NOS. 12, 71, 123, 185, 251,
331, 438, 488, 770, 780, & 927
JEFFERSON COUNTY, TEXAS

TBS T. BAKER SMITH
SOLUTIONS START HERE
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10	03/06/18	EAA

REVISION DESCRIPTION:
REVISED CROSS SECTIONS.

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Table 1: Wetland and Water of the US Impacts

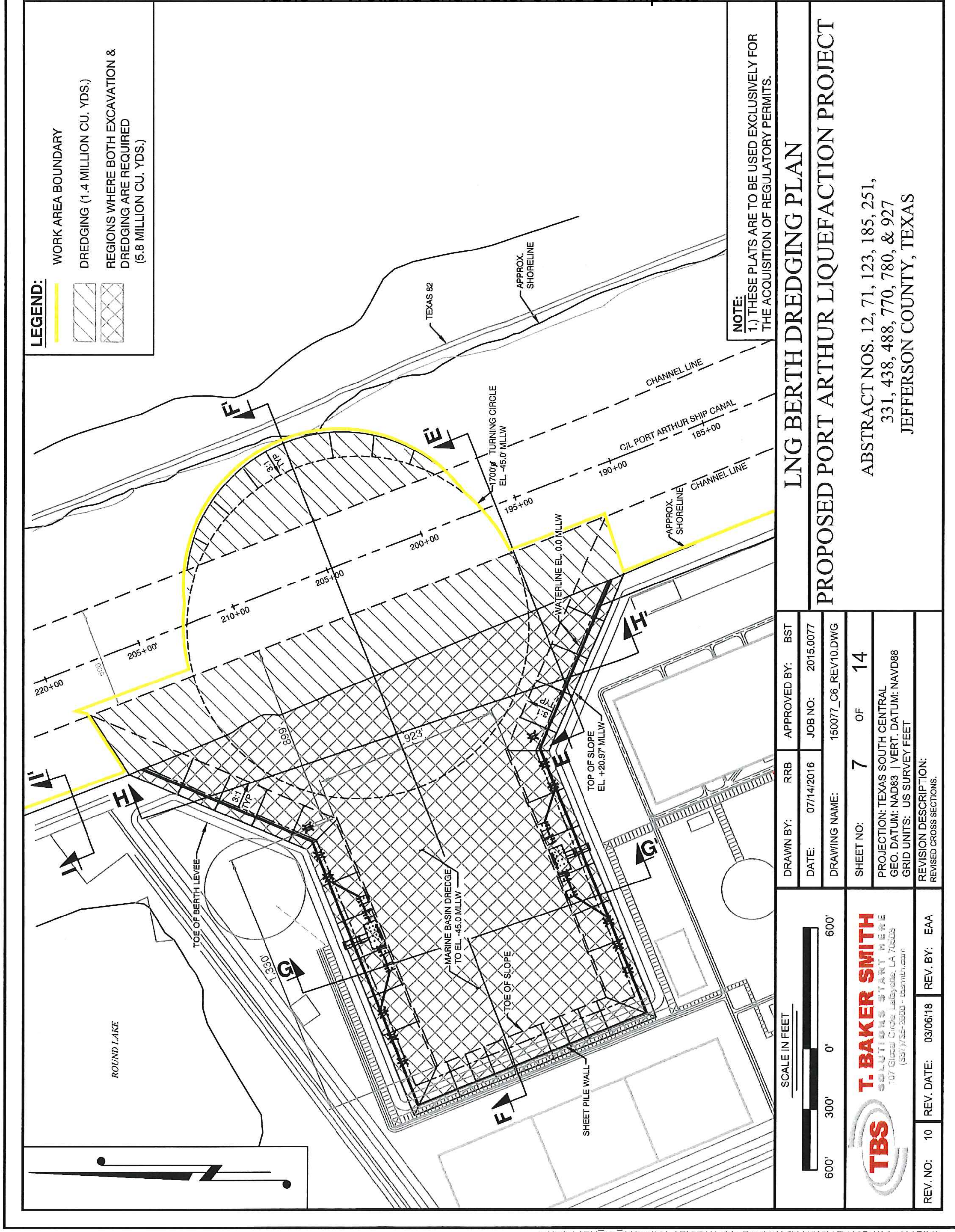

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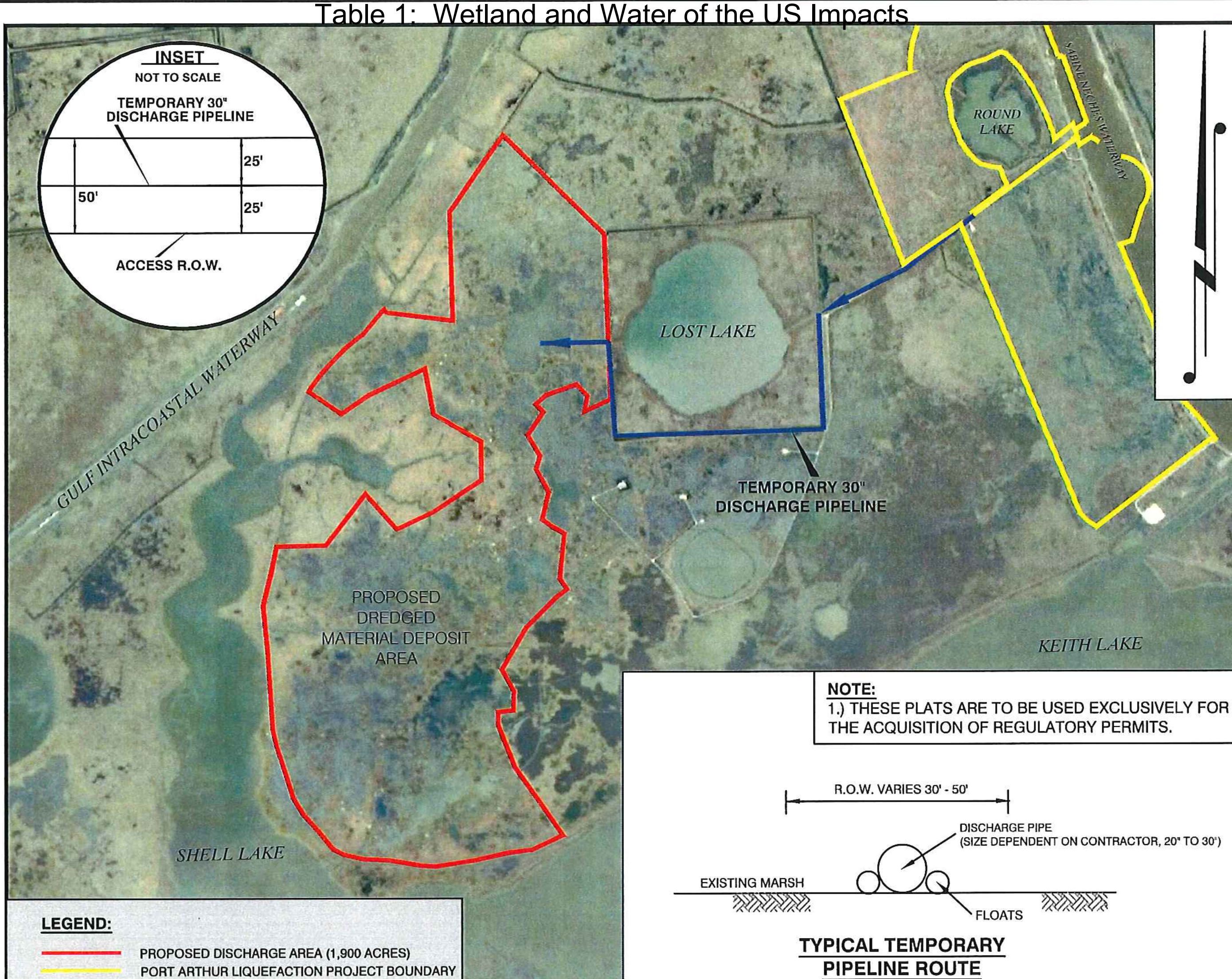
Table 1: Wetland and Water of the US Impacts

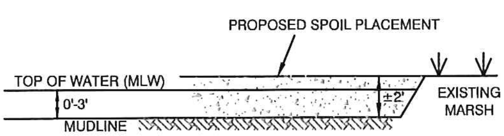


NOTE:
1.) THESE PLATS ARE TO BE USED EXCLUSIVELY FOR THE ACQUISITION OF REGULATORY PERMITS.

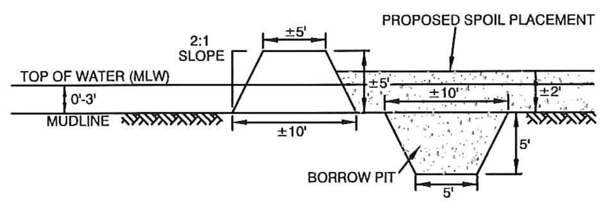
R.O.W. VARIES 30' - 50'
DISCHARGE PIPE
(SIZE DEPENDENT ON CONTRACTOR, 20" TO 30')
EXISTING MARSH
FLOATS

TYPICAL TEMPORARY PIPELINE ROUTE
NOT TO SCALE

SPOIL MATERIAL WILL BE PLACED IN A MANNER CONDUCIVE TO MARSH ESTABLISHMENT.
SETTLED FILL ELEVATION WILL NOT EXCEED MHHW.



TYPICAL DISPOSAL ADJACENT TO EXISTING MARSH
NOT TO SCALE



TYPICAL RETAINING LEVEE TO SERVE PROPOSED MITIGATION SITES
NOT TO SCALE

DRAWN BY:	RRB	APPROVED BY:	BST
DATE:	07/14/2016	JOB NO:	2015.0077
DRAWING NAME:	150077_C7_REV10.DWG		
SHEET NO:	8	OF	14

PROJECTION: TEXAS SOUTH CENTRAL
GEO. DATUM: NAD83 | VERT. DATUM: NAVD88
GRID UNITS: US SURVEY FEET

SCALE: 1" = 4000'
4000' 2000' 0' 4000'

PROPOSED BENEFICIAL USE OF DREDGED MATERIAL (BUDM)

PROPOSED PORT ARTHUR LIQUEFACTION PROJECT

ABSTRACT NOS. 12, 71, 123, 185, 251,
331, 438, 488, 770, 780, & 927
JEFFERSON COUNTY, TEXAS

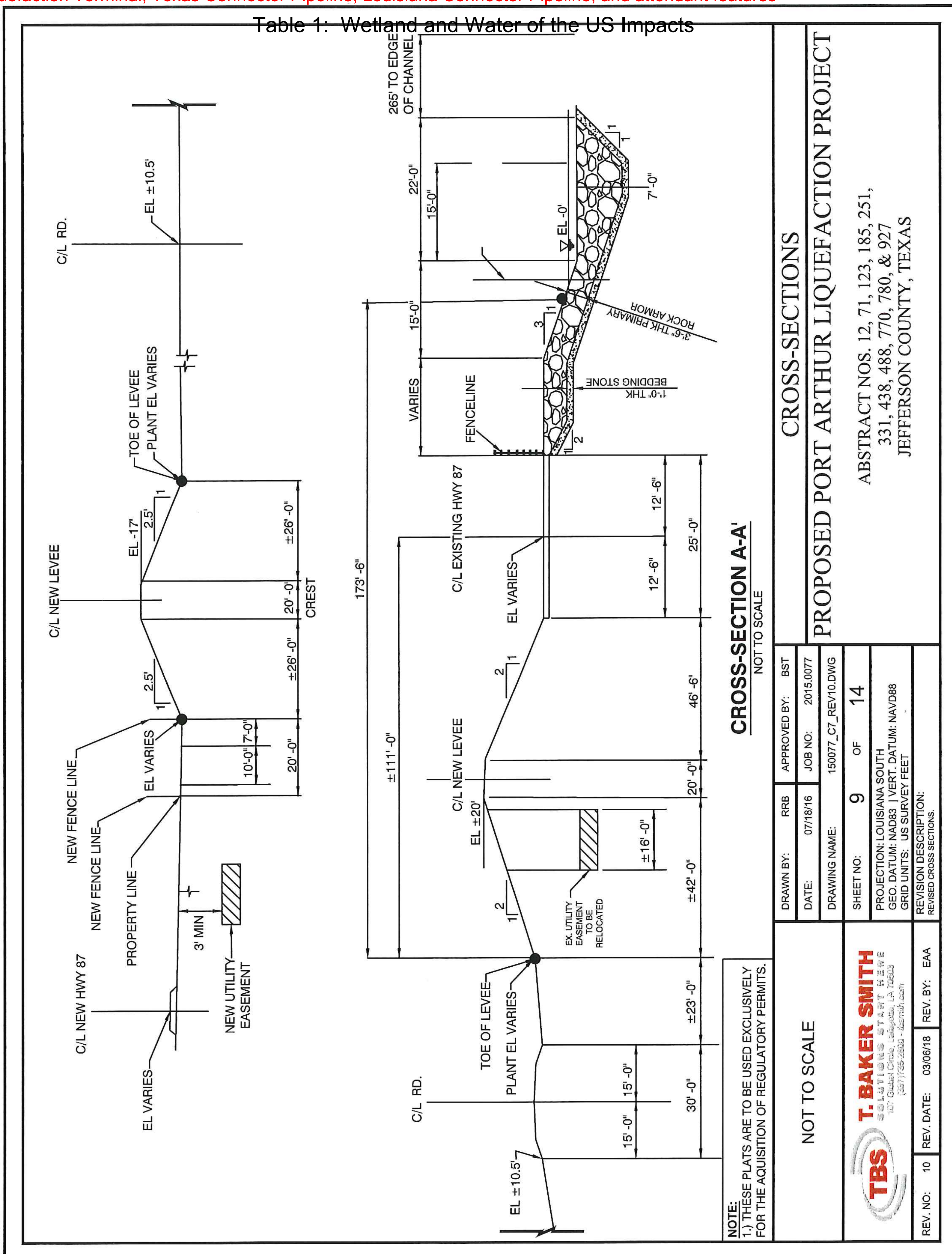
TBS T. BAKER SMITH
SOLUTIONS START HERE
107 Global Circle, Lafayette, LA 70503
(337)735-2800 - tbsmith.com

REV. NO:	10	REV. DATE:	03/06/2018	REV. BY:	EAA

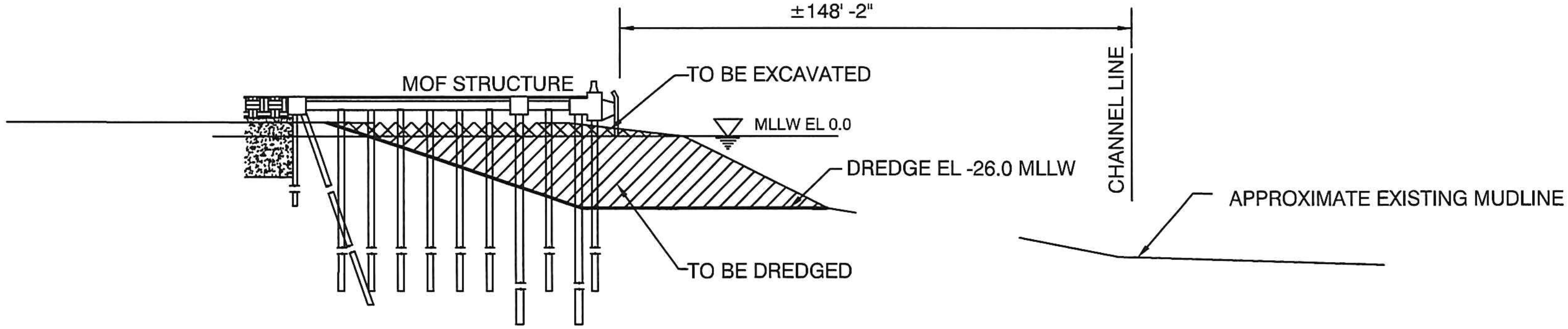
REVISION DESCRIPTION:
REVISED CROSS SECTIONS.

3/6/2018 - P:\Y-2015\2015.0077\DWG\COE - ACTIVE\REV 10\150077_C7_REV10.DWG

Table 1: Wetland and Water of the US Impacts

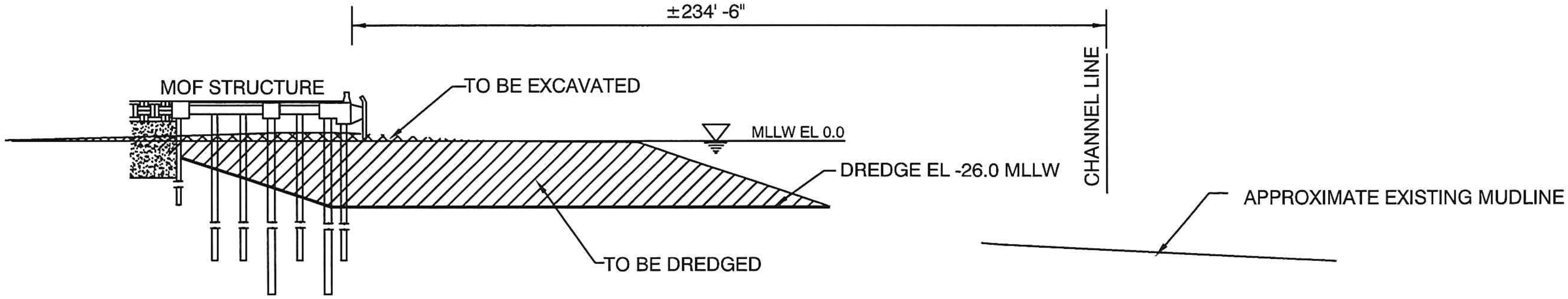


~~Table 1: Wetland and Water of the US Impacts~~



TYPICAL MOF DREDGE SECTION B-B'

NOT TO SCALE



TYPICAL MOF DREDGE SECTION C-C'

NOT TO SCALE

NOTE:
1.) THESE PLATS ARE TO BE USED EXCLUSIVELY FOR THE AQUISITION OF REGULATORY PERMITS.

NOT TO SCALE

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SOLUTIONS START HERE
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DRAWN BY: RRB	APPROVED BY: BST		
DATE: 07/18/16	JOB NO: 2015.0077		
DRAWING NAME: 150077_C7_REV10.DWG			
SHEET NO: 10	OF 14		
PROJECTION: LOUISIANA SOUTH GEO. DATUM: NAD83 | VERT. DATUM: NAVD88 GRID UNITS: US SURVEY FEET			
REV. NO: 10	REV. DATE: 03/06/18	REV. BY: EAA	REVISION DESCRIPTION: REVISED CROSS SECTIONS.

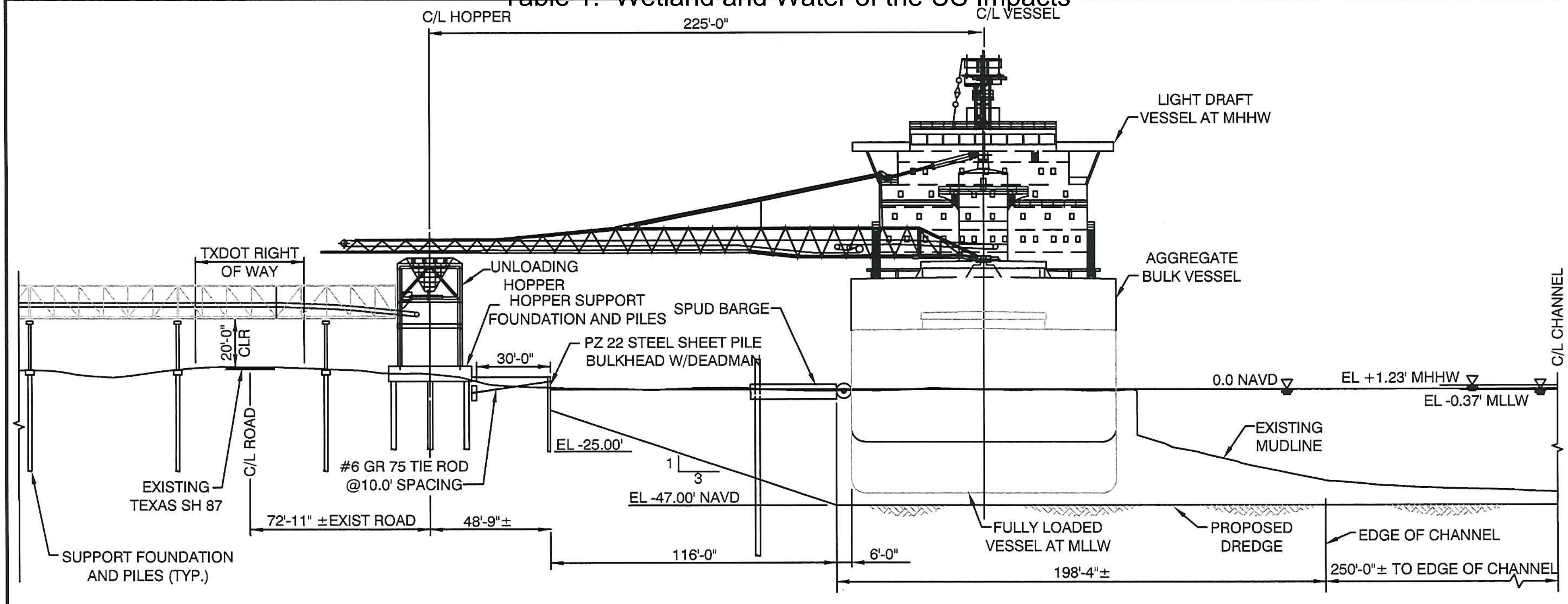
CROSS-SECTIONS

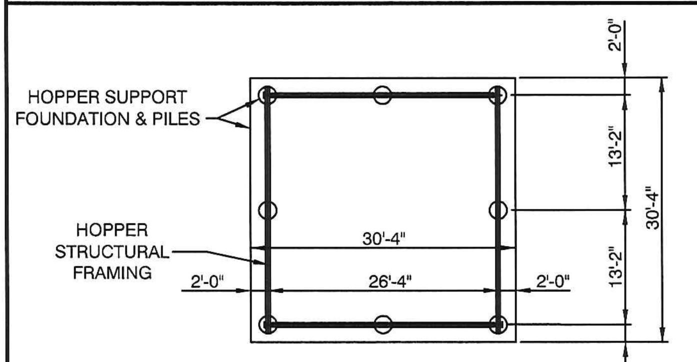
PROPOSED PORT ARTHUR LIQUEFACTION PROJECT

ABSTRACT NOS. 12, 71, 123, 185, 251, 331, 438, 488, 770, 780, & 927
JEFFERSON COUNTY, TEXAS

3/6/2018 - P:\Y-2015\2015.0077\DWG\COE - ACTIVE\REV 10\150077_C7_REV10.DWG

Table 1: Wetland and Water of the US Impacts



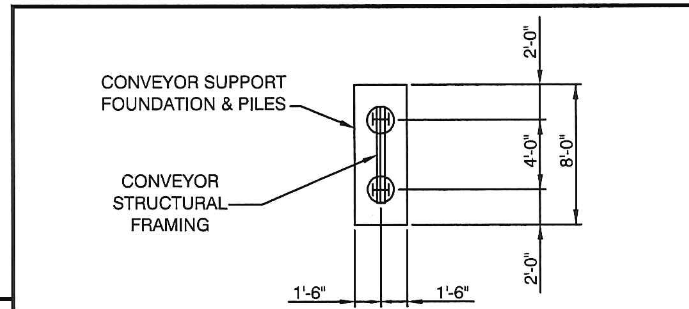


UNLOADING HOPPER FOUNDATION
NOT TO SCALE

PIONEER DOCK CROSS-SECTION D-D'

NOT TO SCALE

NOTE:
1.) THESE PLATS ARE TO BE USED EXCLUSIVELY FOR THE ACQUISITION OF REGULATORY PERMITS.
2.) PORT ARTHUR CANAL BATHYMETRIC DATA REFERENCED FROM USACE SURVEY, 03/11/2015.



CONVEYOR FOUNDATION
NOT TO SCALE

NOT TO SCALE

DRAWN BY: RRB	APPROVED BY: BST
DATE: 07/18/16	JOB NO: 2015.0077
DRAWING NAME: 150077_C7_REV10.DWG	
SHEET NO: 11 OF 14	

PROJECTION: LOUISIANA SOUTH
GEO. DATUM: NAD83 | VERT. DATUM: NAVD88
GRID UNITS: US SURVEY FEET

TBS T. BAKER SMITH
SOLUTIONS START HERE
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REV. NO: 10	REV. DATE: 03/06/18	REV. BY: EAA

REVISION DESCRIPTION:
REVISED CROSS SECTIONS.

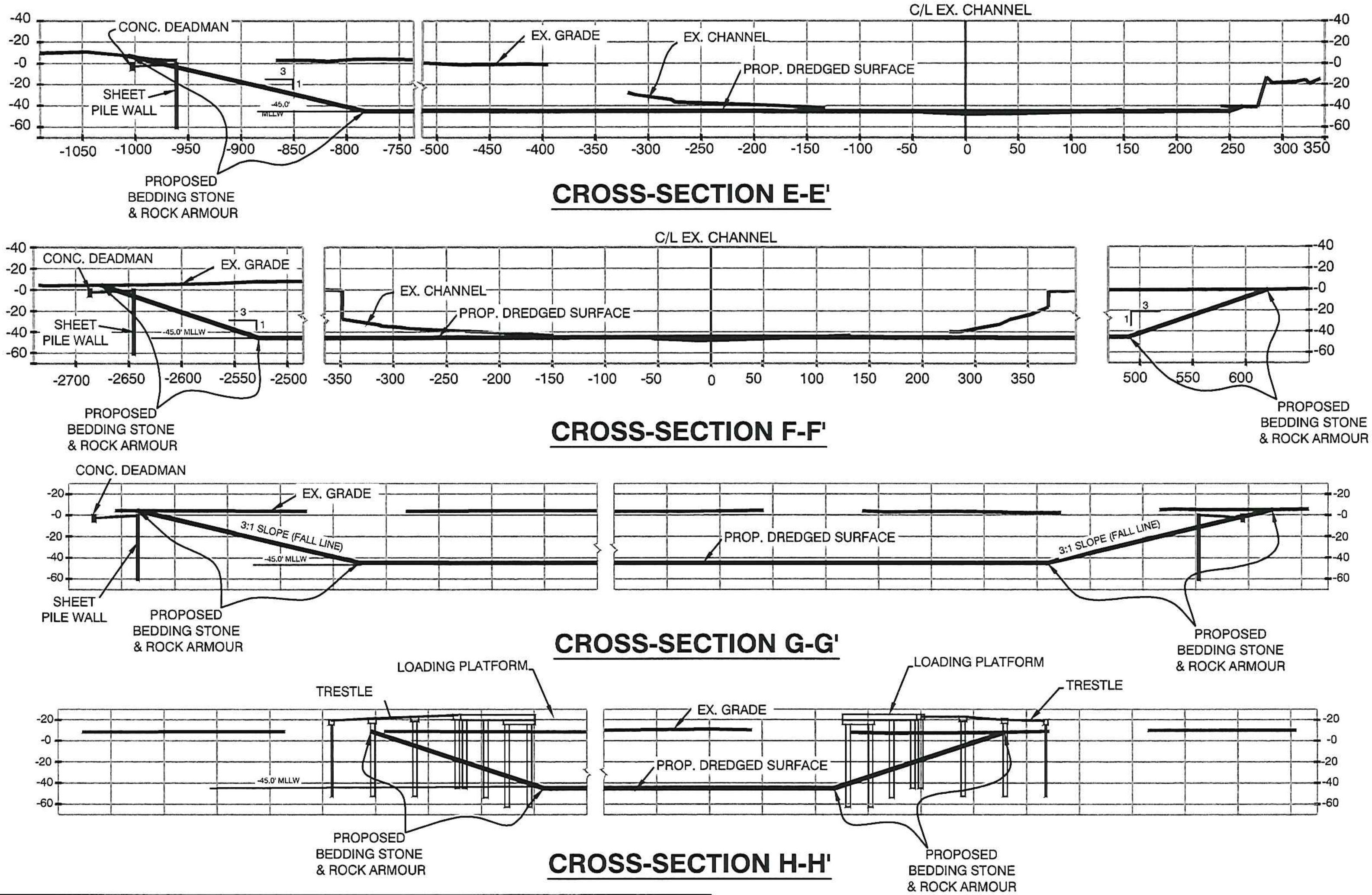
CROSS-SECTION OF PIONEER DOCK

PROPOSED PORT ARTHUR LIQUEFACTION PROJECT

ABSTRACT NOS. 12, 71, 123, 185, 251,
331, 438, 488, 770, 780, & 927
JEFFERSON COUNTY, TEXAS

3/6/2018 - P:\Y-2015\2015.0077\DWG\COE - ACTIVE\REV 10\150077_C7_REV10.DWG

Table 1: Wetland and Water of the US Impacts



NOTES:
1.) SEE CROSS-SECTION H-H' ON SHEET 13 FOR DETAIL OF PROPOSED BEDDING STONE & ROACK ARMOUR.
2.) THESE PLATS ARE TO BE USED EXCLUSIVELY FOR THE AQUISITION OF REGULATORY PERMITS.

SCALE: 1" = 150'

150' 75' 0' 150'

DRAWN BY:	RRB	APPROVED BY:	BST
DATE:	07/18/16	JOB NO:	2015.0077
DRAWING NAME:	150077_C7_REV10.DWG		
SHEET NO:	12	OF	14

PROJECTION: LOUISIANA SOUTH
GEO. DATUM: NAD83 | VERT. DATUM: NAVD88
GRID UNITS: US SURVEY FEET

T. BAKER SMITH
SOLUTIONS START HERE
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REV. NO:	REV. DATE:	REV. BY:	REVISION DESCRIPTION:
10	03/06/18	EAA	REVISED CROSS SECTIONS.

CROSS-SECTIONS

PROPOSED PORT ARTHUR LIQUEFACTION PROJECT

ABSTRACT NOS. 12, 71, 123, 185, 251, 331, 438, 488, 770, 780, & 927
JEFFERSON COUNTY, TEXAS

3/6/2018 - P:\Y-2015\2015.0077\DWG\COE - ACTIVE\REV 10\150077_C7_REV10.DWG

3/6/2018 - P:\Y-2015\2015.0077\DWG\COE - ACTIVE\REV 10\150077_C7_REV10.DWG

Table 1: Wetland and Water of the US Impacts

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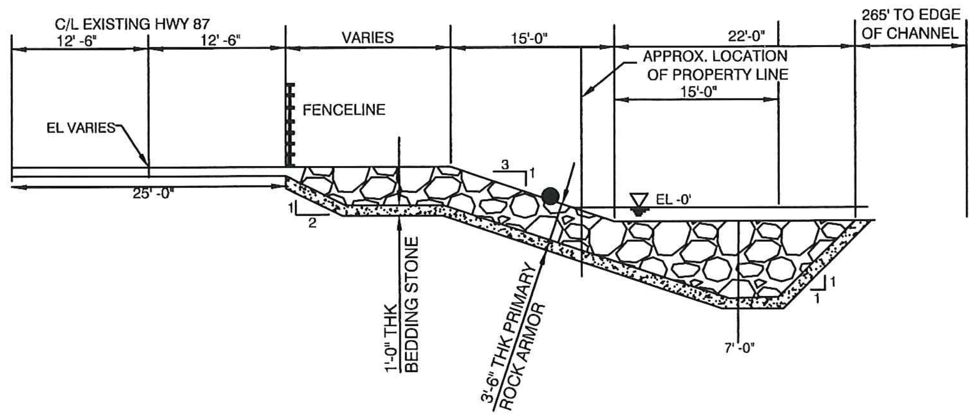
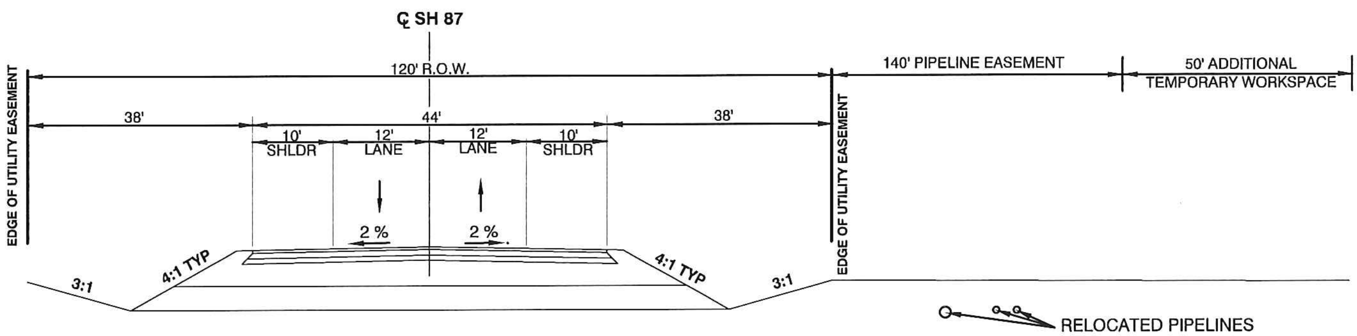


CROSS-SECTION I-I'

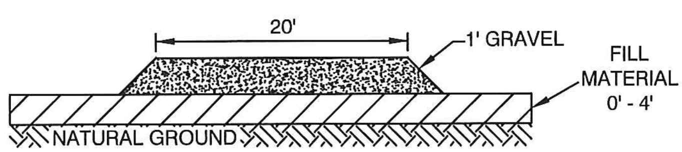
NOT TO SCALE



TX HWY 87 REROUTE DETAIL

CROSS-SECTION J-J'

NOT TO SCALE



TYPICAL GRAVEL ROAD CROSS-SECTION

NOT TO SCALE

NOTE:
1.) THESE PLATS ARE TO BE USED EXCLUSIVELY FOR THE AQUISITION OF REGULATORY PERMITS.

DRAWN BY: RRB	APPROVED BY: BST
DATE: 07/14/2016	JOB NO: 2015.0077
DRAWING NAME: 150077_C7_REV10.DWG	
SHEET NO: 13 OF 14	
PROJECTION: TEXAS SOUTH CENTRAL GEO. DATUM: NAD83 | VERT. DATUM: NAVD88 GRID UNITS: US SURVEY FEET	
NOT TO SCALE	

PROPOSED MARSH CREATION MAP

PROPOSED PORT ARTHUR LIQUEFACTION PROJECT

ABSTRACT NOS. 12, 71, 123, 185, 251,
331, 438, 488, 770, 780, & 927
JEFFERSON COUNTY, TEXAS

T. BAKER SMITH
SOLUTIONS START HERE
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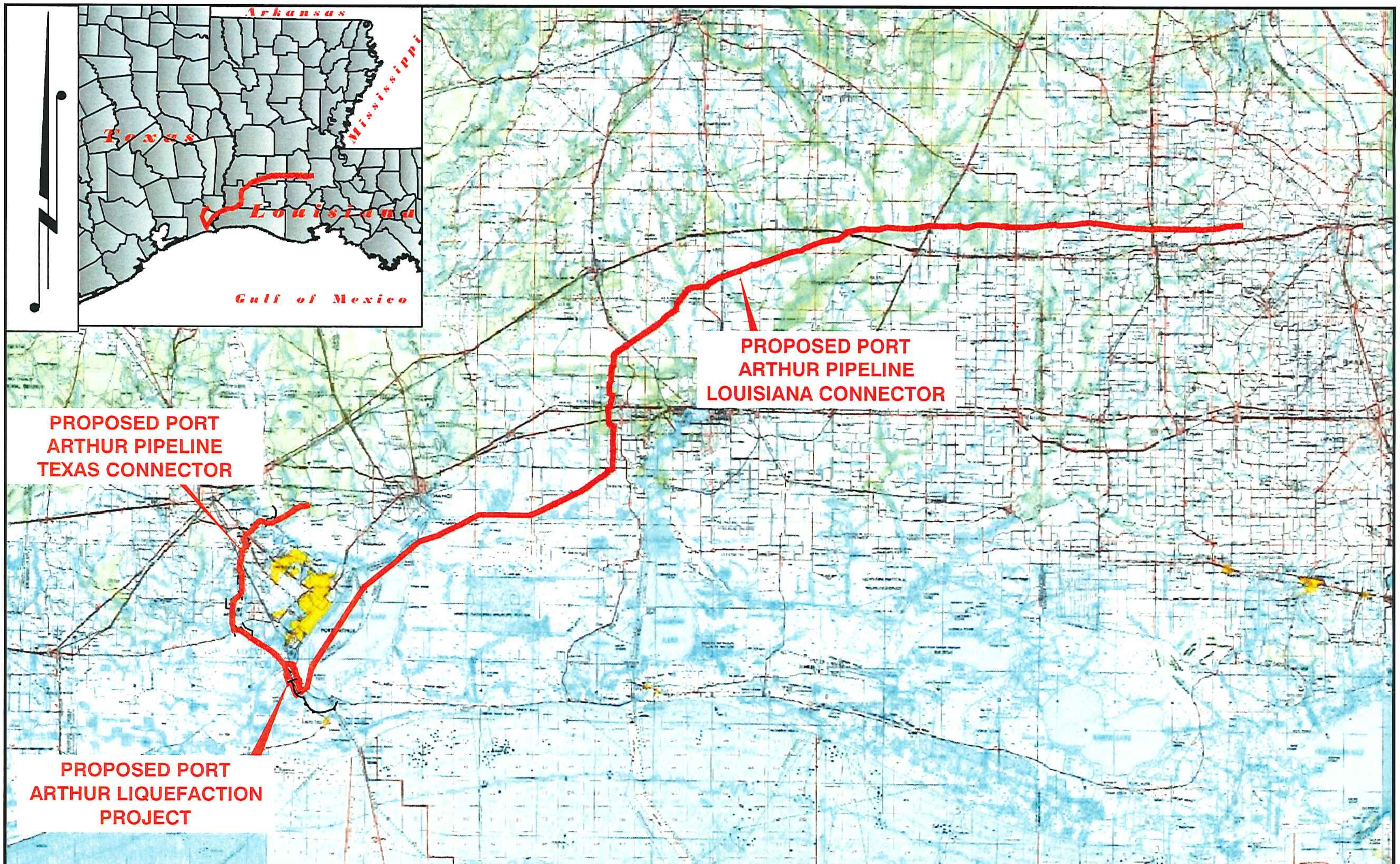
REV. NO: 10	REV. DATE: 03/06/18	REV. BY: EAA

REVISION DESCRIPTION:
REVISED CROSS SECTIONS.

Table 1: Wetland and Water of the US Impacts



SCALE: 1" = 15 Miles
15 Miles 7.5 Miles 0 15 Miles

T. BAKER SMITH
A CENTURY OF SOLUTIONS
107 Global Circle, Lafayette, LA 70503
(337)735-2600 - tbsmith.com

DRAWN BY: RRB	APPROVED BY: ADM		
DATE: 02/26/2018	JOB NO: 2017.0476		
DRAWING NAME: PALNG_PAPL.DWG			
SHEET NO: 1	OF 1		
PROJECTION: LOUISIANA SOUTH GEO. DATUM: NAD83 | VERT. DATUM: NAVD88 GRID UNITS: US SURVEY FEET			
REV. NO: 00	REV. DATE: --/--/--	REV. BY: ---	REVISION DESCRIPTION: --

VICINITY MAP

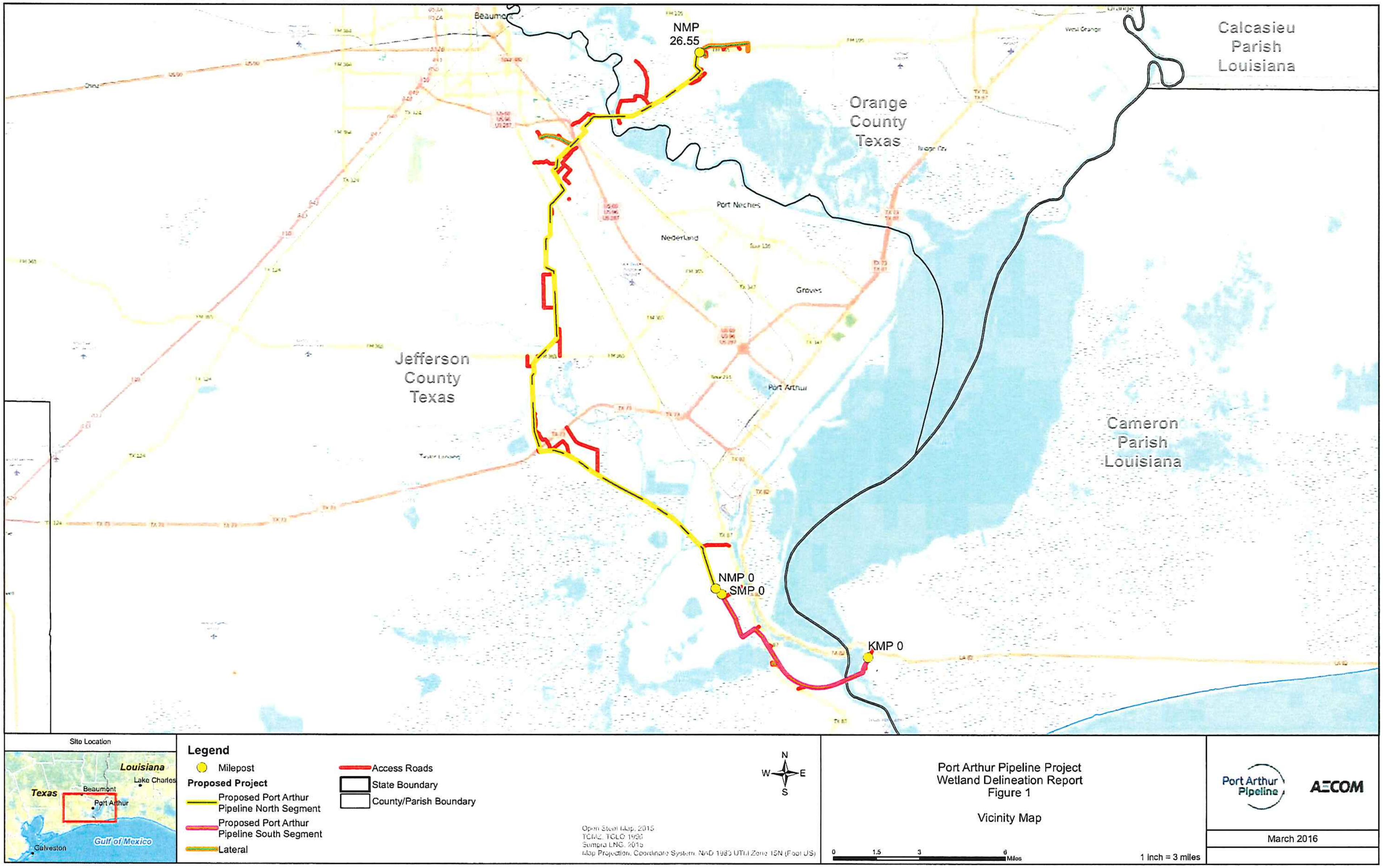
PORT ARTHUR, LNG
PROJECT LOCATION MAP
SWG-2008-00497
PROPOSED PORT ARTHUR PIPELINE TEXAS CONNECTOR
PROPOSED PORT ARTHUR LIQUEFACTION PROJECT
PROPOSED PORT ARTHUR PIPELINE LOUISIANA CONNECTOR

3/8/2018 - P:\Y-2017\2017.0476\DWG\PALNG_PAPL VIC\PALNG_PAPL.DWG

Vicinity Map

Port Arthur Pipeline Texas Connector

Table 1: Wetland and Water of the US Impacts



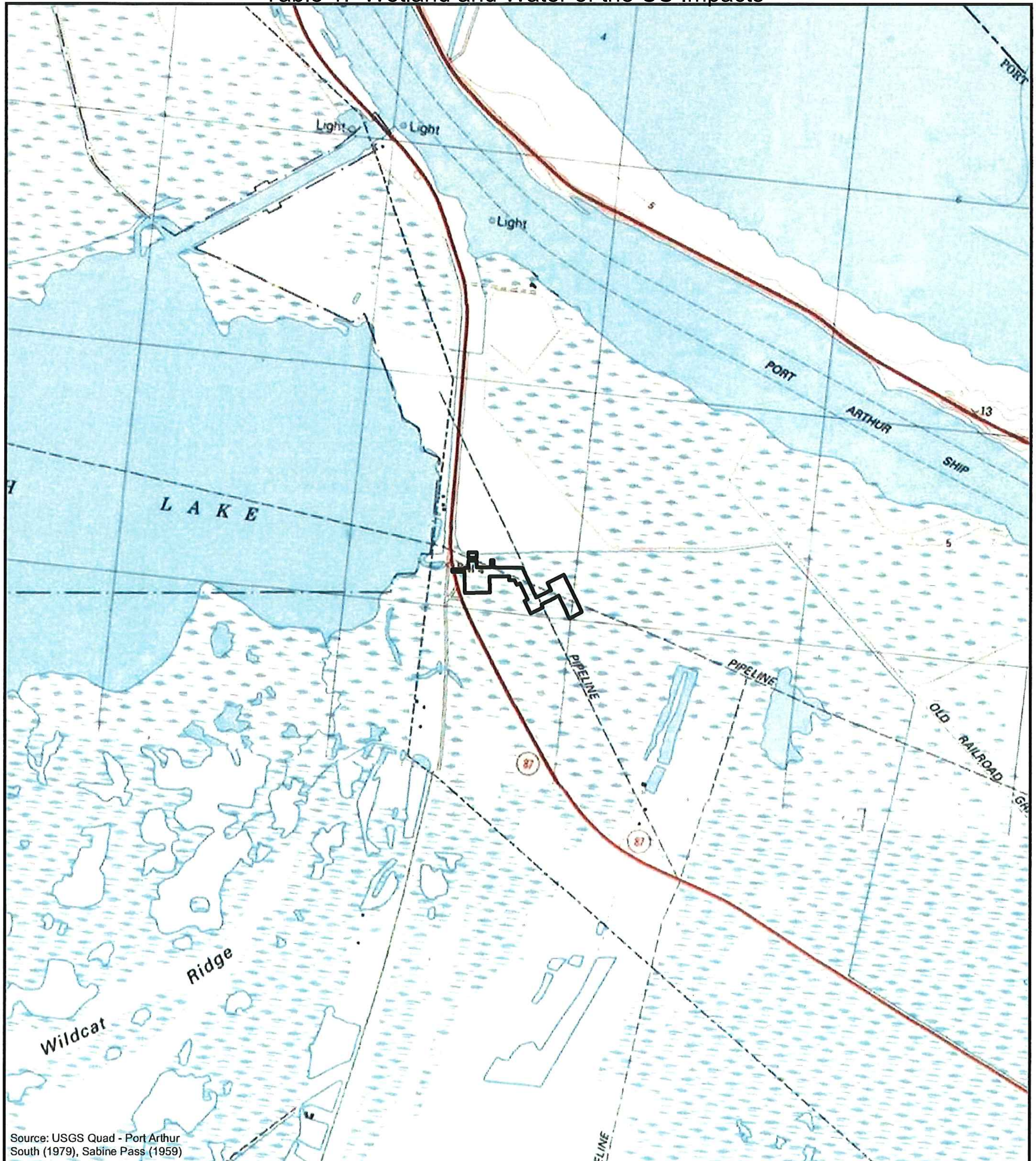
AUG 2 2 2018

PAPL NGPL Lateral and Meter Station

Port Arthur Pipeline Texas Connector

Table 1: Wetland and Water of the US Impacts

Document Path: Y:\Projects\Sempra_LNG\Port_Auth



Location Map

Legend

NGPL Meter Station and Lateral

N W E S

NGPL Meter Station and Lateral
U.S. Army Corp of Engineers
Preliminary Jurisdictional Delineation

Location Map

1 inch = 2,000 feet

0 500 1,000 2,000 Feet

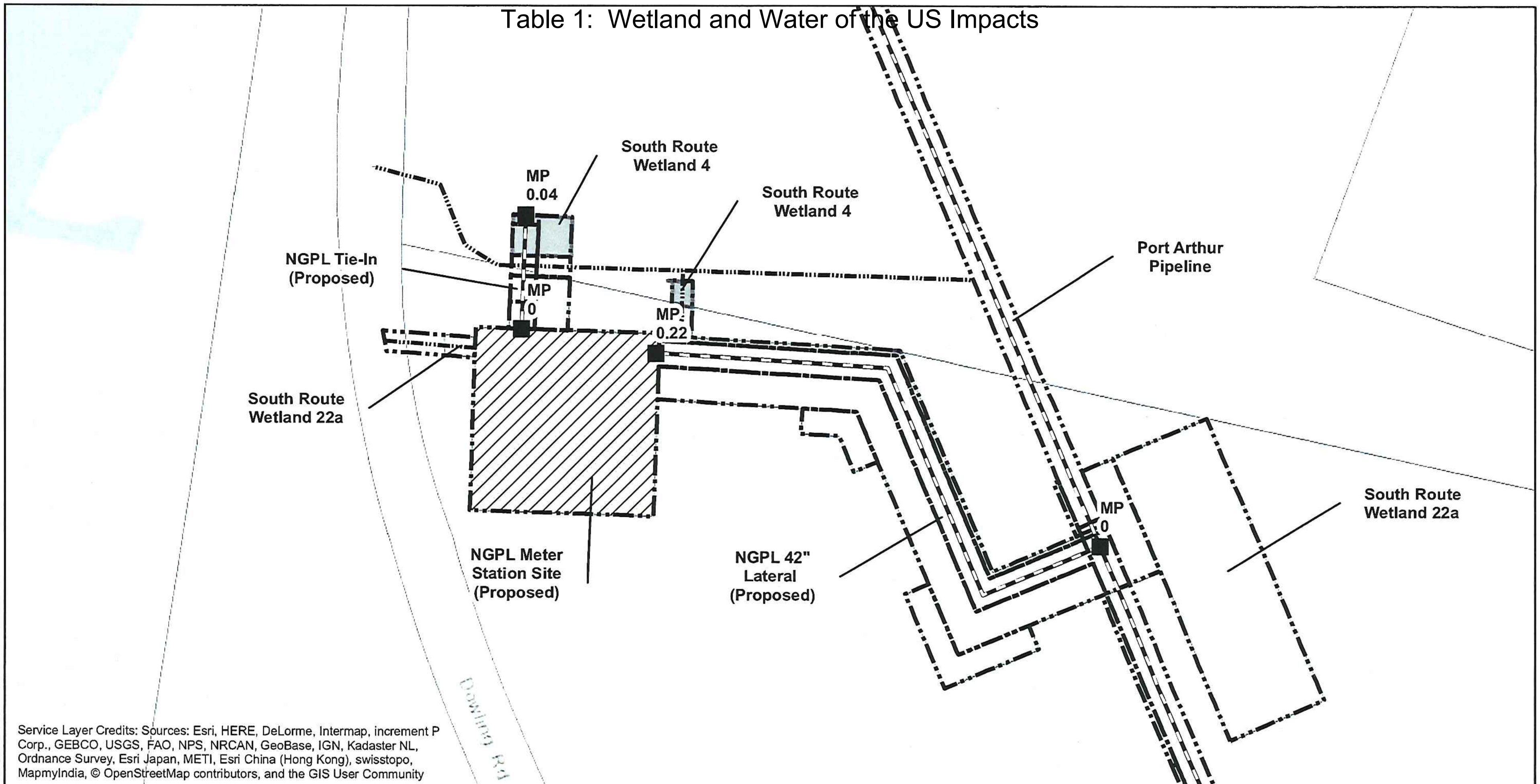
Port Arthur Pipeline

AECOM

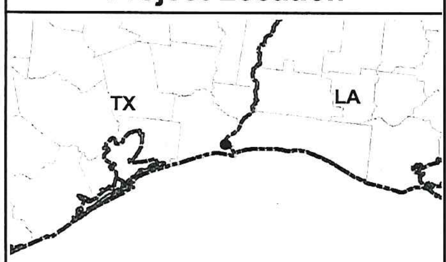
August 2016

FIGURE 1

Table 1: Wetland and Water of the US Impacts



Project Location



AECOM

Port Arthur Pipeline

Legend

- Mileposts
- NGPL Lateral and Tie-ins
- Access Road
- Permanent Workspace
- Temporary Workspace
- Parcels

Wetland Boundary/Cover Type

- Estuarine Emergent Wetland
- Estuarine Scrub-Shrub Wetland

Wetland and Water Features within Corridor

Wetland or Water Body ID	Temporary Acres	Permanent Acres	Length
South Route Wetland 22a	7.61	2.97	-
South Route Wetland 4	0.25	-	-
GRAND TOTAL	7.86	2.97	-

NGPL Meter Station and Lateral
U.S. Army Corps of Engineers
Preliminary Jurisdictional Determination
29.758 -93.936
Jefferson County, Texas

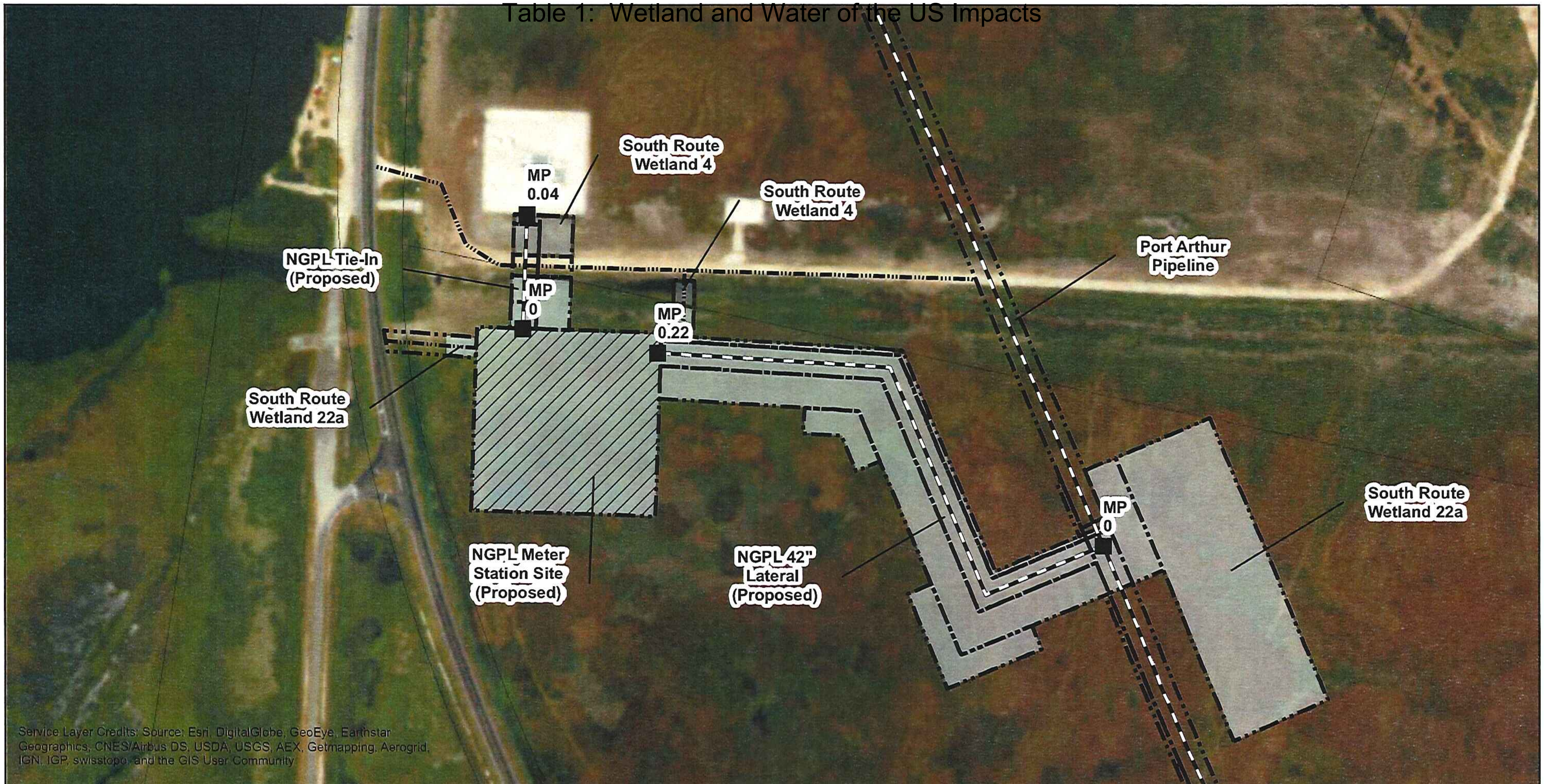
1 inch = 300 feet   0 150 300 Feet

Figure 2

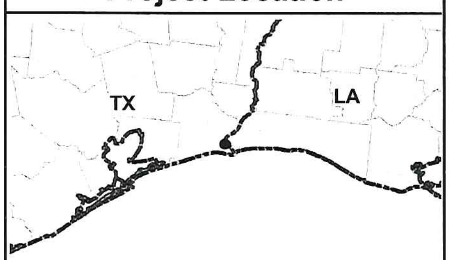
No.	Date	By	Revision Description	Chk.
1	8/2/2016	TA	Issued for Review	KA

AUG 2 2 2018

Table 1: Wetland and Water of the US Impacts



Project Location



AECOM

Port Arthur Pipeline

Legend

- Mileposts
- NGPL Lateral and Tie-ins
- Access Road
- Permanent Workspace
- Temporary Workspace

Wetland Boundary/Cover Type

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NGPL Meter Station and Lateral
U.S. Army Corps of Engineers
Preliminary Jurisdictional Determination

29.758 -93.936

Jefferson County, Texas

1 inch = 300 feet 0 150 300 Feet

Figure 3

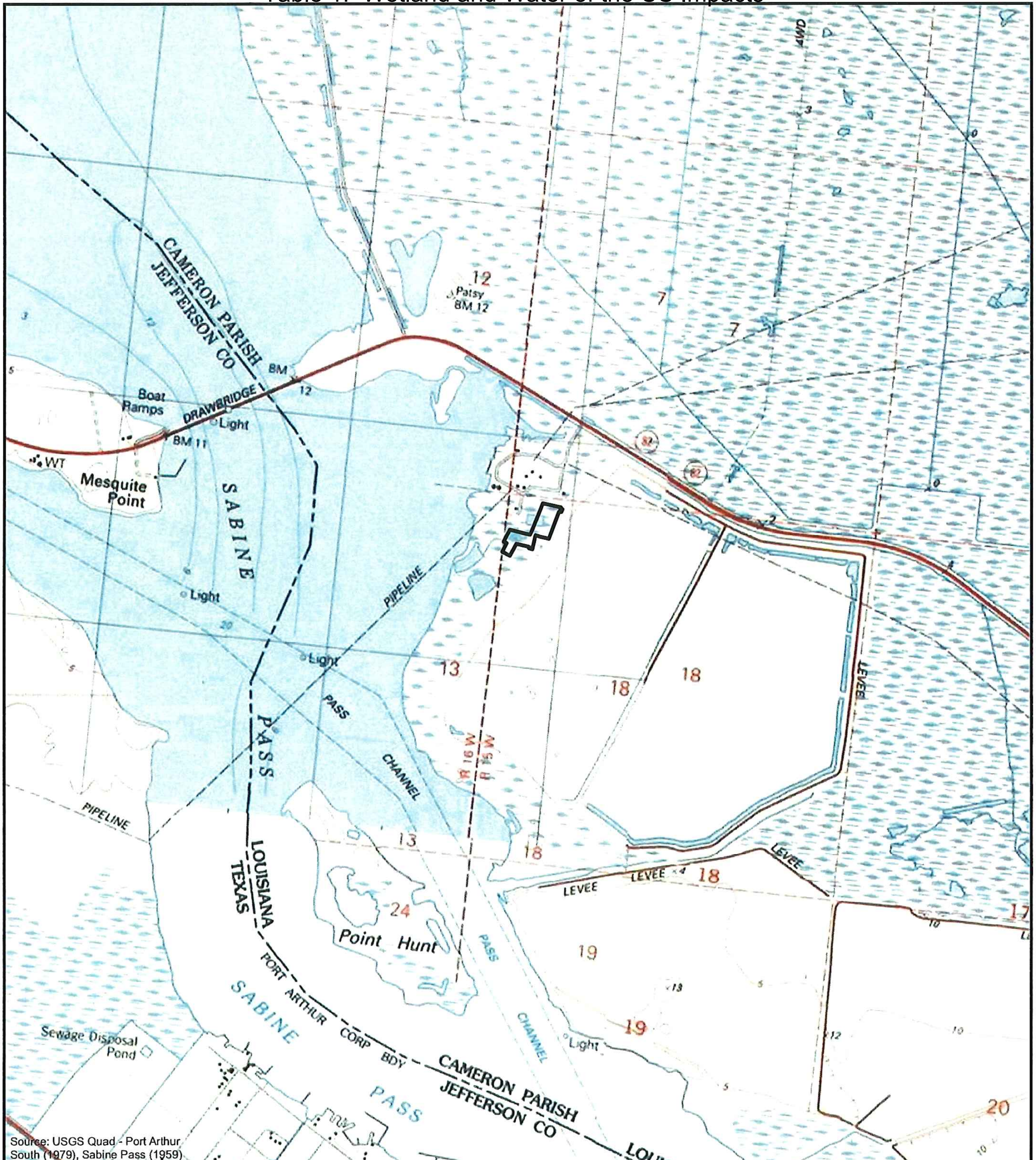
No.	Date	By	Revision Description	Chk.
1	8/2/2016	TA	Issued for Review	KA

PAPL KMLP Lateral and Meter Station

Port Arthur Pipeline Texas Connector

Table 1: Wetland and Water of the US Impacts

Document Path: Y:\Projects\Sempra_LNG\Port_Auth



Location Map

Legend

KMLP Meter Station and Lateral

N W E S

KMLP Meter Station and Lateral
U.S. Army Corp of Engineers
Preliminary Jurisdictional Delineation

Location Map

1 inch = 2,000 feet

0 500 1,000 2,000 Feet

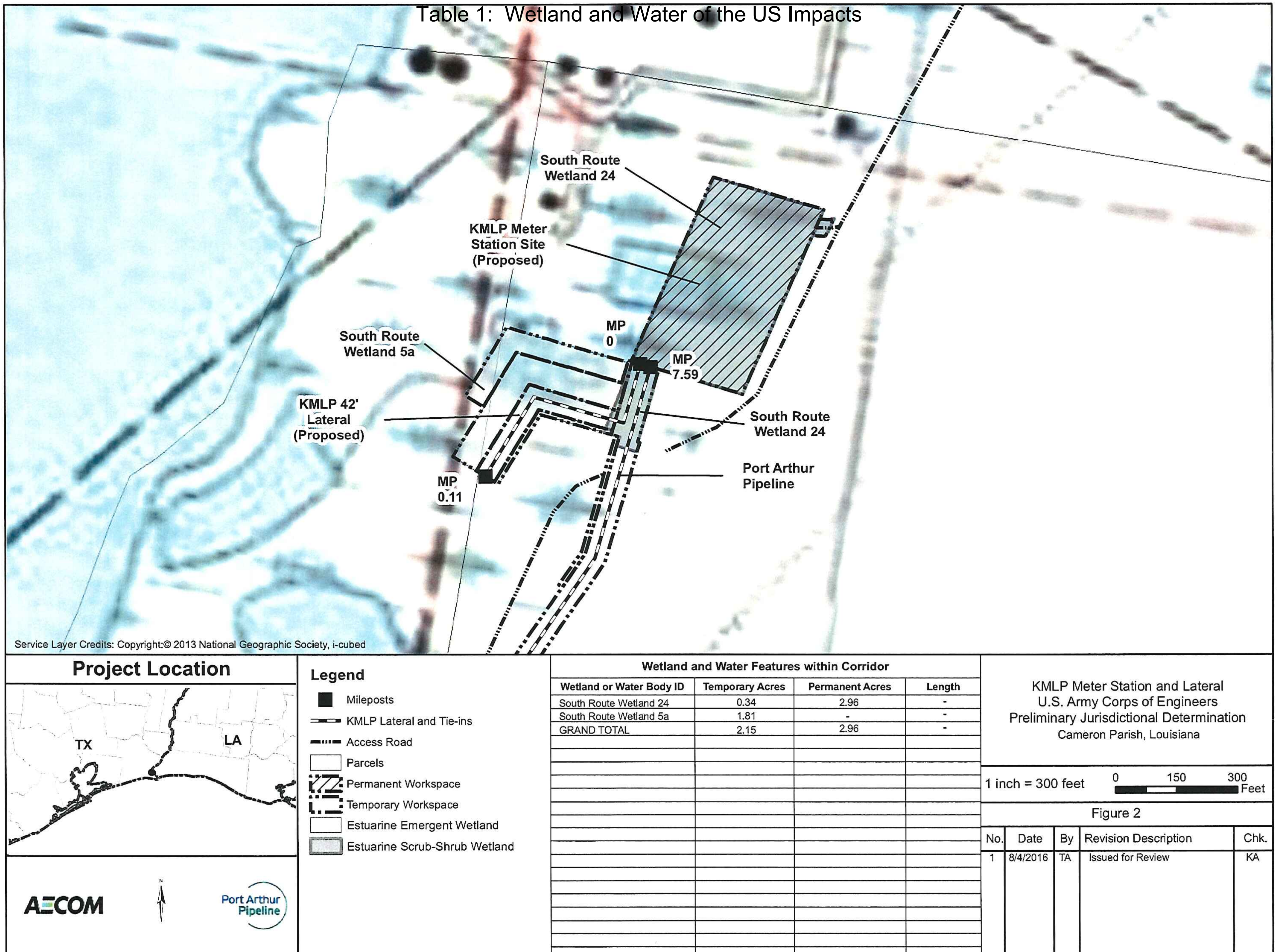
Port Arthur Pipeline

AECOM

August 2016

FIGURE 1

Table 1: Wetland and Water of the US Impacts



Wetland and Water Features within Corridor

Wetland or Water Body ID	Temporary Acres	Permanent Acres	Length
South Route Wetland 24	0.34	2.96	-
South Route Wetland 5a	1.81	-	-
GRAND TOTAL	2.15	2.96	-

KMLP Meter Station and Lateral
U.S. Army Corps of Engineers
Preliminary Jurisdictional Determination
Cameron Parish, Louisiana

1 inch = 300 feet 0 150 300 Feet

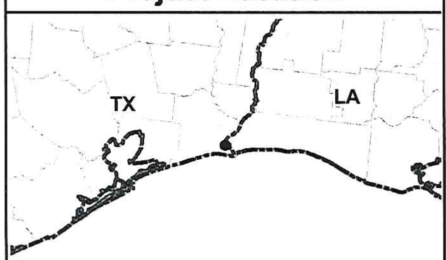
Figure 2

No.	Date	By	Revision Description	Chk.
1	8/4/2016	TA	Issued for Review	KA

AUG 2 2 2018

Table 1: Wetland and Water of the US Impacts

Project Location



AECOM

Port Arthur Pipeline

Legend

- Mileposts
- KMLP Lateral and Tie-ins
- Access Road
- Parcels
- Permanent Workspace
- Temporary Workspace
- Estuarine Emergent Wetland
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KMLP Meter Station and Lateral
U.S. Army Corps of Engineers
Preliminary Jurisdictional Determination
Cameron Parish, Louisiana

1 inch = 300 feet   0   150   300 Feet

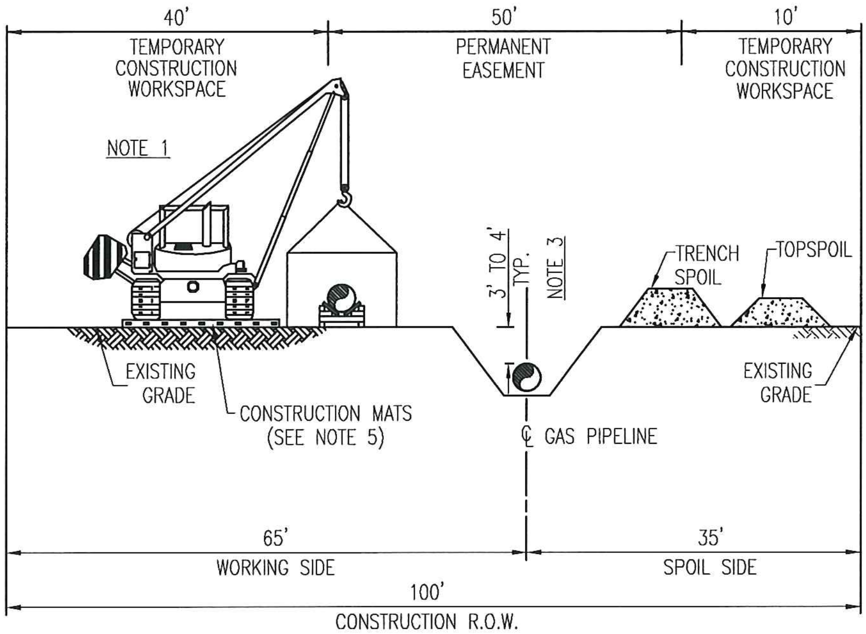
Figure 3

No.	Date	By	Revision Description	Chk.
1	8/4/2016	TA	Issued for Review	KA

Typical Construction Drawings
Port Arthur Pipeline Texas Connector

AUG 2 2 2018

~~Table 1: Wetland and Water of the US Impacts~~



PROFILE

TYPICAL 100' NON-SATURATED WETLAND NECKDOWN CONSTRUCTION
N.T.S.

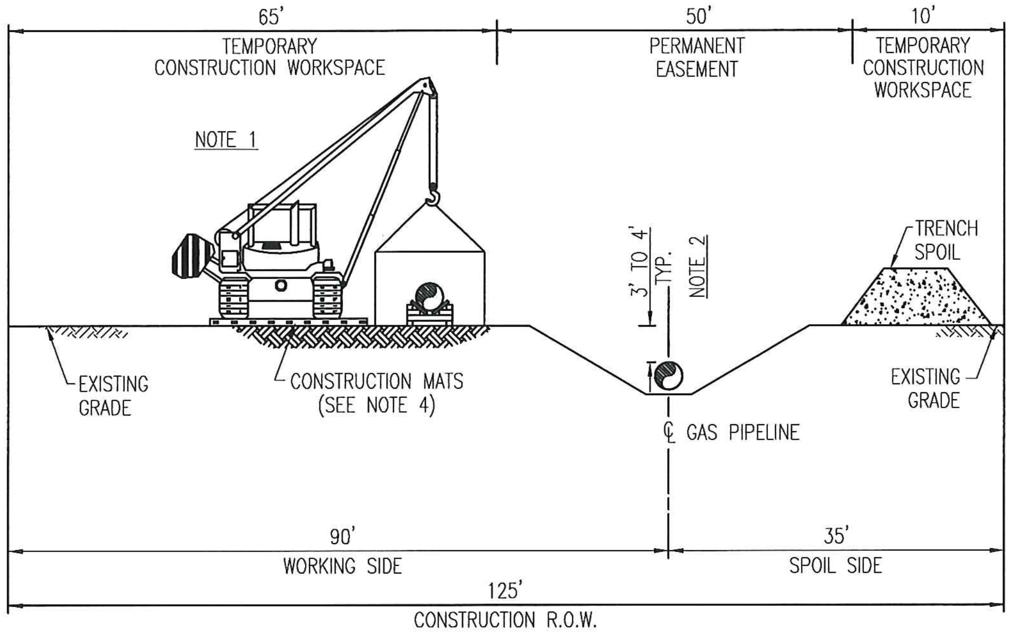
NOTES:
1. CLEARANCES DESIGNED FOR SIDE BOOM PIPELAYER.
2. MOW ONLY, TOPSOIL STRIPPING WIDTH OF DITCH ONLY.
3. PIPE DEPTHS REFERENCED ON ALIGNMENT SHEETS.
4. THIS CONSTRUCTION METHOD APPLIES TO FORWARD AND REVERSE PIPELINE LAY.
5. MATTING WILL OCCUR IN WORKING LANE. OPTIONAL UNDER SKIDS AND PIPE.

REVISIONS	
A	ISSUED FOR REVIEW - 12/21/2015
B	ISSUED FOR REVIEW 04/14/2016

Port Arthur Pipeline	ORIGINATOR: JBS (NAME) 12/21/2015 (DATE)	TITLE: PORT ARTHUR PIPELINE TYPICAL NON-SATURATED WETLAND NECKDOWN CROSS SECTION
	CHECKED BY: BJV / APPROVED BY: FAT	SCALE: N.T.S. / DWG. NO. 22670-510-TYP-20043 / REV. B

CADD DRAWING: DO NOT MAKE MANUAL REVISIONS

~~Table 1: Wetland and Water of the US Impacts~~



PROFILE

TYPICAL 125' SATURATED WETLAND CONSTRUCTION
N.T.S.

NOTES:
1. CLEARANCES DESIGNED FOR SIDE BOOM PIPELAYER.
2. PIPE DEPTHS REFERENCED ON ALIGNMENT SHEETS.
3. THIS CONSTRUCTION METHOD APPLIES TO FORWARD AND REVERSE PIPELINE LAY.
4. MATTING WILL OCCUR IN WORKING LANE. OPTIONAL UNDER SKIDS AND PIPE.

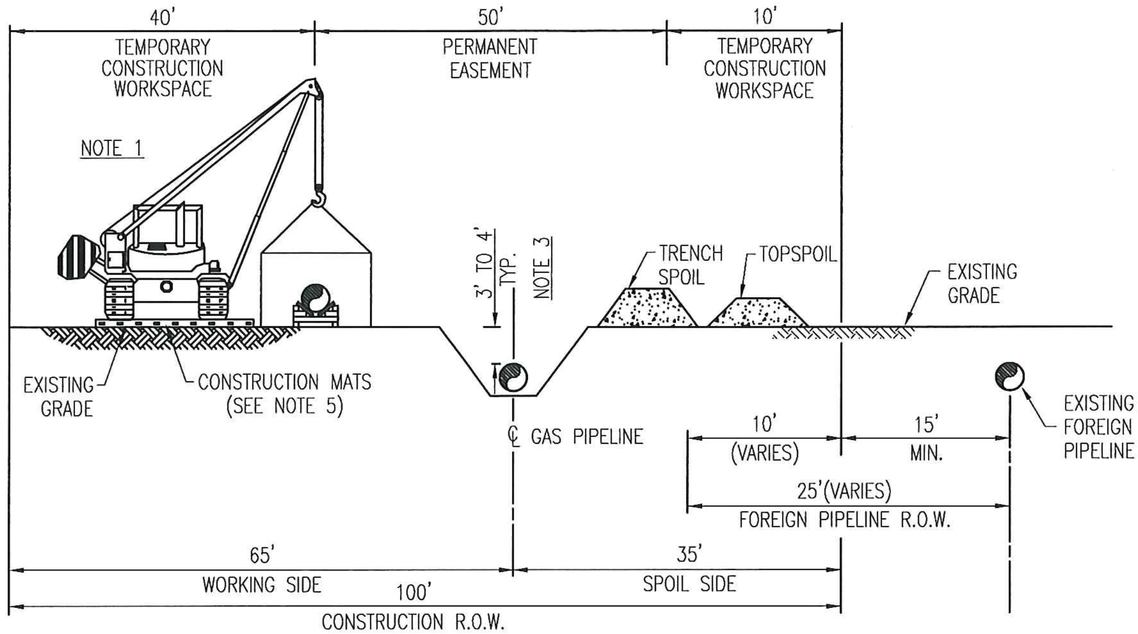
REVISIONS	
A	ISSUED FOR REVIEW – 1/6/2016
B	ISSUED FOR REVIEW 04/14/2016

Port Arthur Pipeline	ORIGINATOR: JBS (NAME) 1/6/2016 (DATE)	TITLE: PORT ARTHUR PIPELINE TYPICAL SATURATED WETLAND CROSS SECTION		
	CHECKED BY: BJV / APPROVED BY: FAT	SCALE: N.T.S.	DWG. NO. 22670-510-TYP-20044	REV. B

CADD DRAWING: DO NOT MAKE MANUAL REVISIONS

AUG 22 2018

~~Table 1: Wetland and Water of the US Impacts~~



PROFILE

TYPICAL 100' NON-SATURATED WETLAND NECKDOWN CONSTRUCTION WITH FOREIGN PIPELINE CO-LAY
N.T.S.

NOTES:
1. CLEARANCES DESIGNED FOR SIDE BOOM PIPELAYER.
2. MOW ONLY, TOPSOIL STRIPPING WIDTH OF DITCH ONLY.
3. PIPE DEPTHS REFERENCED ON ALIGNMENT SHEETS.
4. THIS CONSTRUCTION METHOD APPLIES TO FORWARD AND REVERSE PIPELINE LAY.
5. MATTING WILL OCCUR IN WORKING LANE. OPTIONAL UNDER SKIDS AND PIPE.

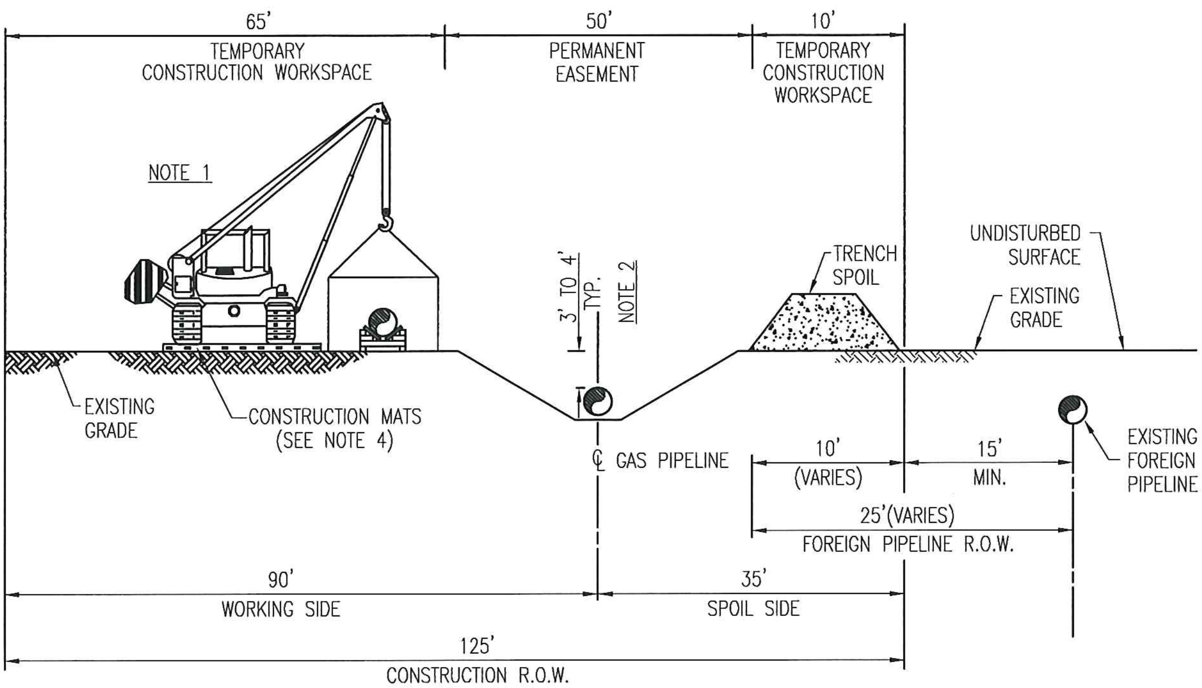
REVISIONS	
A	ISSUED FOR REVIEW - 1/6/2016
B	ISSUED FOR REVIEW - 04/14/16

Port Arthur Pipeline

ORIGINATOR:		TITLE:
JBS (NAME)	1/6/2016 (DATE)	PORT ARTHUR PIPELINE TYPICAL NON-SATURATED WETLAND NECKDOWN WITH FOREIGN PIPELINE CO-LAY CROSS SECTION
CHECKED BY: BJV	APPROVED BY: FAT	SCALE: N.T.S. / DWG. NO. 22670-510-TYP-20047 / REV. B

CADD DRAWING: DO NOT MAKE MANUAL REVISIONS

~~Table 1: Wetland and Water of the US Impacts~~



PROFILE

TYPICAL 125' SATURATED WETLAND CONSTRUCTION WITH FOREIGN PIPELINE CO-LAY
N.T.S.

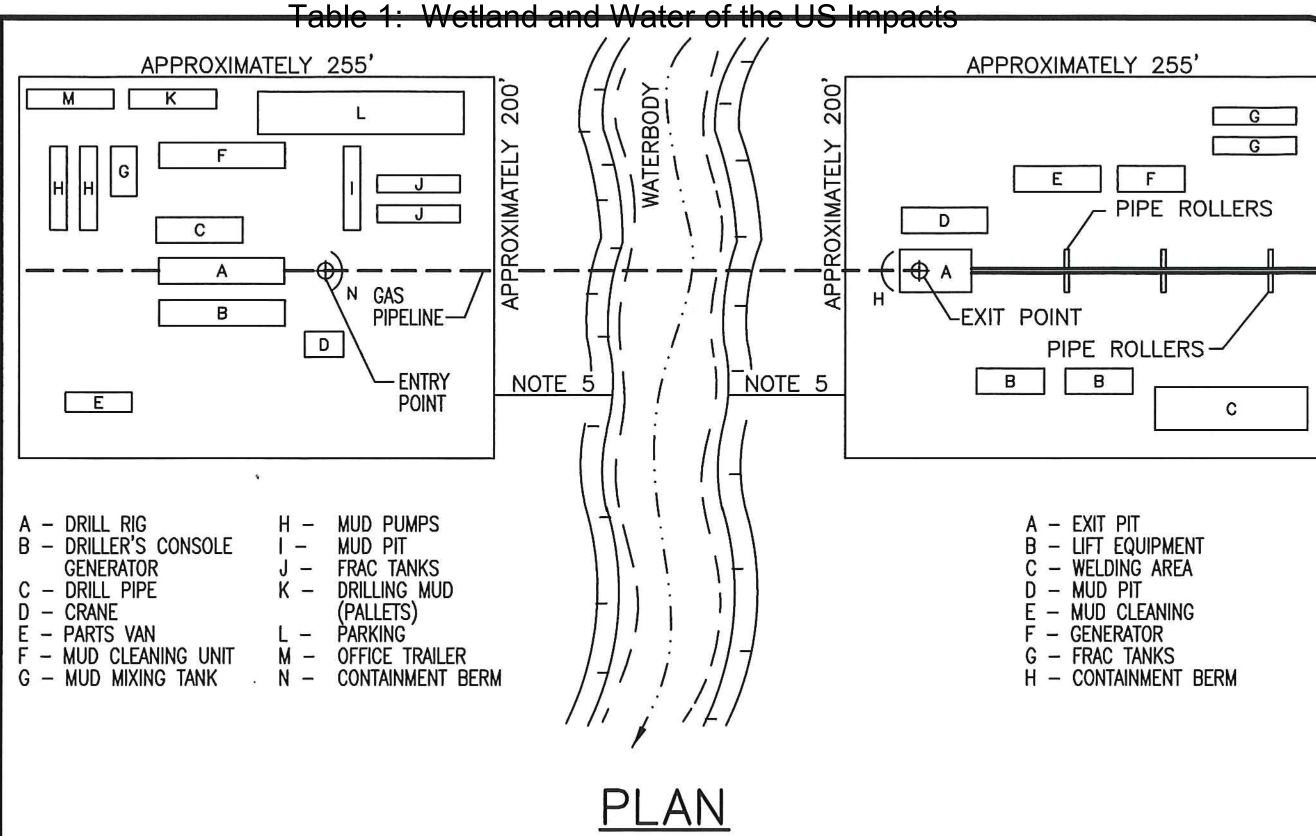
NOTES:
1. CLEARANCES DESIGNED FOR SIDE BOOM PIPELAYER.
2. PIPE DEPTHS REFERENCED ON ALIGNMENT SHEETS.
3. THIS CONSTRUCTION METHOD APPLIES TO FORWARD AND REVERSE PIPELINE LAY.
4. MATTING WILL OCCUR IN WORKING LANE. OPTIONAL UNDER SKIDS AND PIPE.

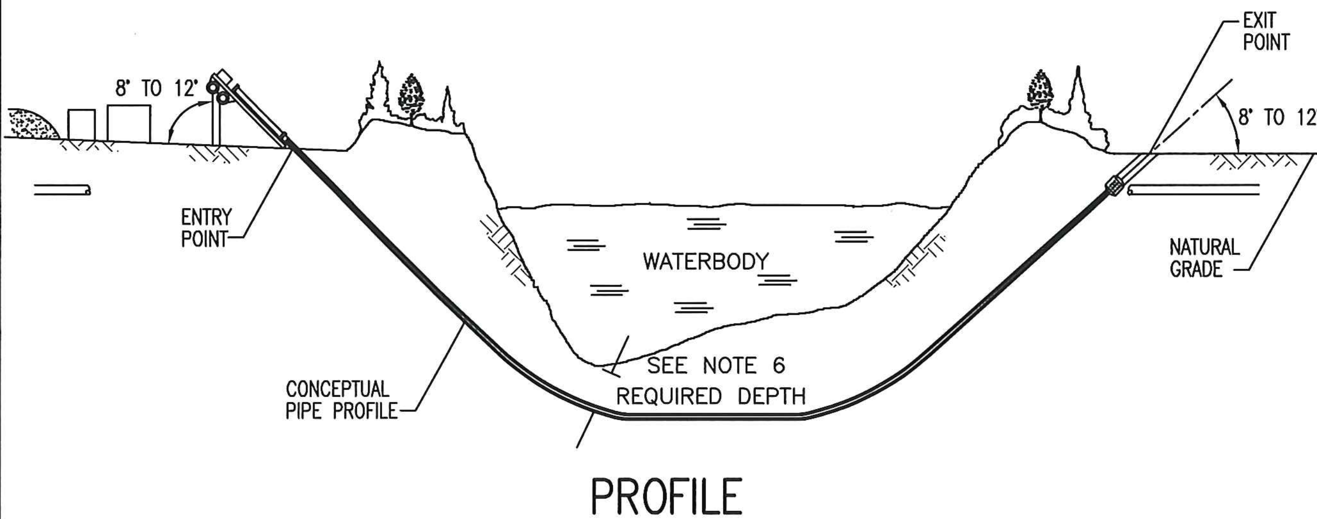
REVISIONS | A | ISSUED FOR REVIEW – 1/6/2016 | B | ISSUED FOR REVIEW 04/14/2016

Port Arthur Pipeline	ORIGINATOR: JBS (NAME) 1/6/2016 (DATE)	TITLE: PORT ARTHUR PIPELINE TYPICAL SATURATED WETLAND WITH FOREIGN PIPELINE CO-LAY CROSS SECTION
	CHECKED BY: BJV / APPROVED BY: FAT	SCALE: N.T.S. / DWG. NO. 22670-510-TYP-20048 / REV. B

CADD DRAWING: DO NOT MAKE MANUAL REVISIONS

~~Table 1: Wetland and Water of the US Impacts~~





NOTES:
1. ONLY BENTONITE BASED DRILLING MUD MAY BE USED. USE OF ADDITIVES TO THE DRILLING MUD IS PROHIBITED WITHOUT PRIOR APPROVAL OF COMPANY'S INSPECTOR.
2. INSTALL SUITABLE DRILLING MUD TANKS OR SUMPS TO PREVENT CONTAMINATION OF WATERCOURSE.
3. INSTALL BERMS DOWN SLOPE FROM THE DRILL ENTRY AND ANTICIPATED EXIT POINTS TO CONTAIN ANY RELEASE OF DRILLING MUD.
4. DISPOSE OF DRILLING MUD IN ACCORDANCE WITH THE APPROPRIATE REGULATORY AUTHORITY REQUIREMENTS.
5. DISTANCE BACK FROM EDGE OF WATERBODY VARIES WITH BENDING RADIUS OF PIPE.
6. REQUIRED DEPTH TO BE DETERMINED AFTER SITE SPECIFIC GEOTECHNICAL INVESTIGATION.

REVISIONS | A | ISSUED FOR REVIEW – 05/20/2015

Port Arthur Pipeline	ORIGINATOR: TN (NAME) 05/20/2015 (DATE)	TITLE: PORT ARTHUR PIPELINE TYPICAL WATERBODY CROSSING HORIZONTAL DIRECTIONAL DRILL	
	CHECKED BY: NF / APPROVED BY: GAT	SCALE: N.T.S. / DWG. NO. 22670-510-TYP-20036	REV. A

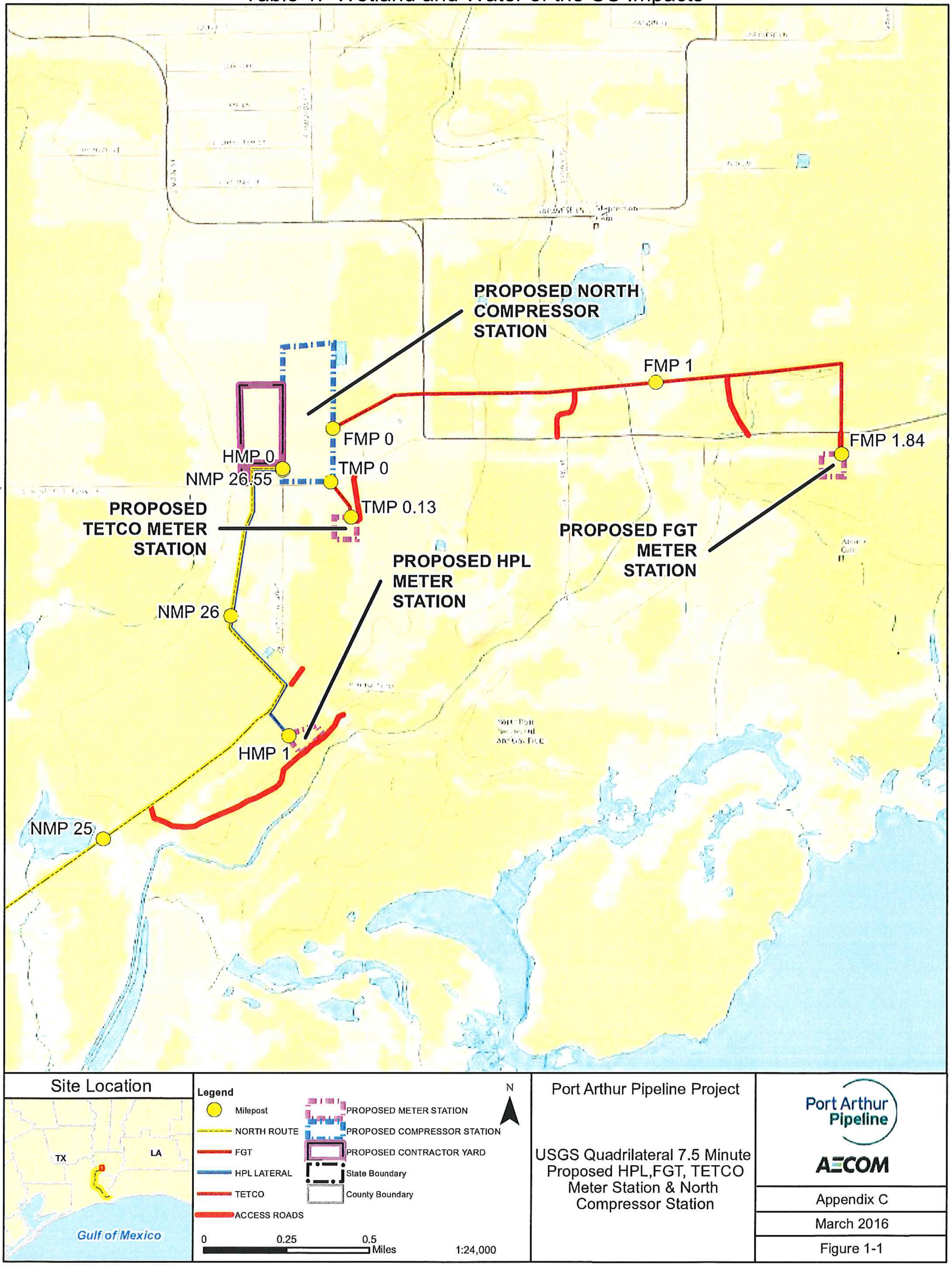
CADD DRAWING: DO NOT MAKE MANUAL REVISIONS

Aboveground Facility Drawings

Port Arthur Pipeline Texas Connector

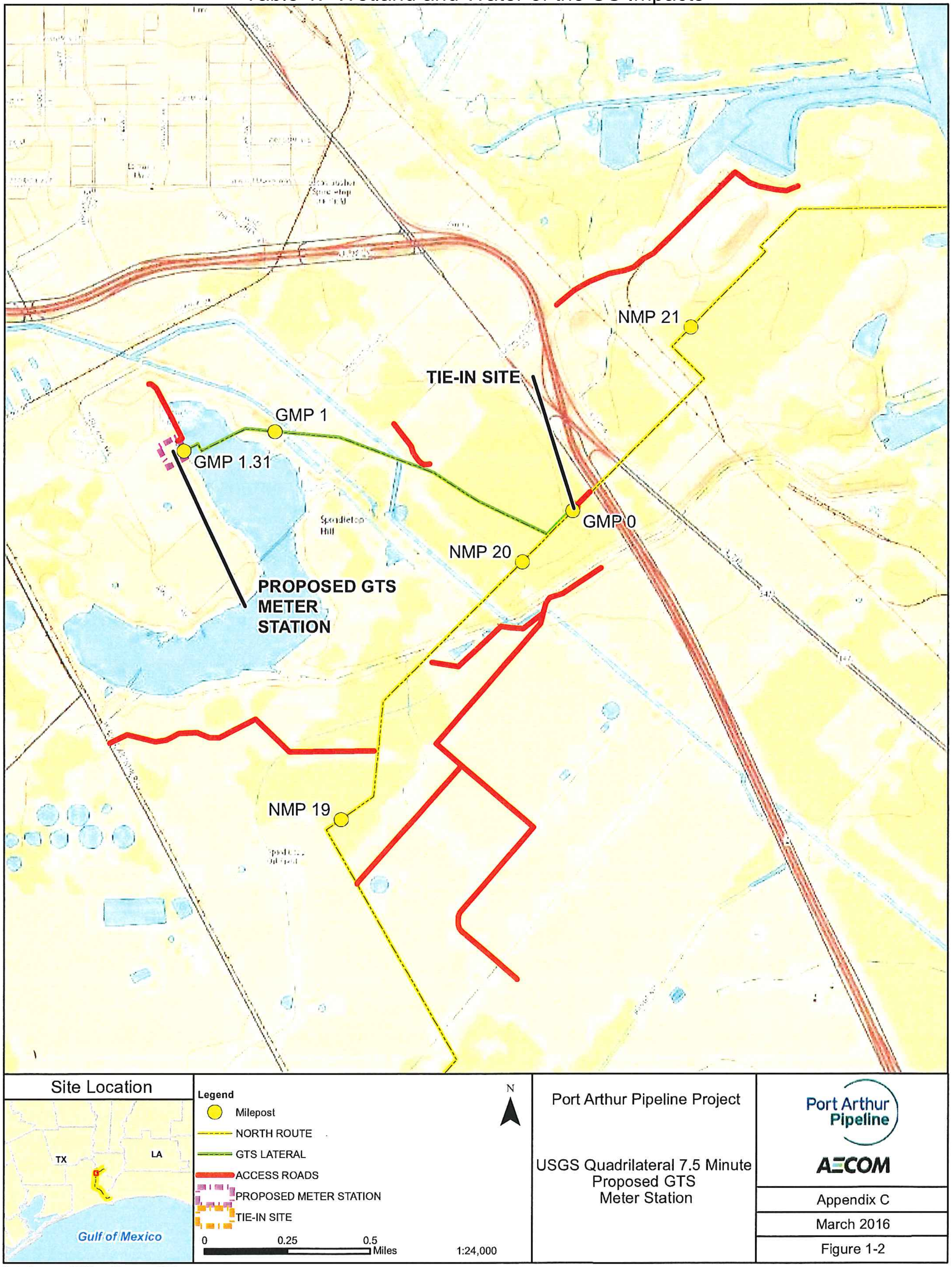
AUG 2 2 2018

Table 1: Wetland and Water of the US Impacts



Data Source: ESRI and Sempra 2015
Map Projection: NAD83 UTM 15N (US Feet)

Table 1: Wetland and Water of the US Impacts



Data Source: ESRI and Sempra 2015
Map Projection: NAD83 UTM 15N (US Feet)

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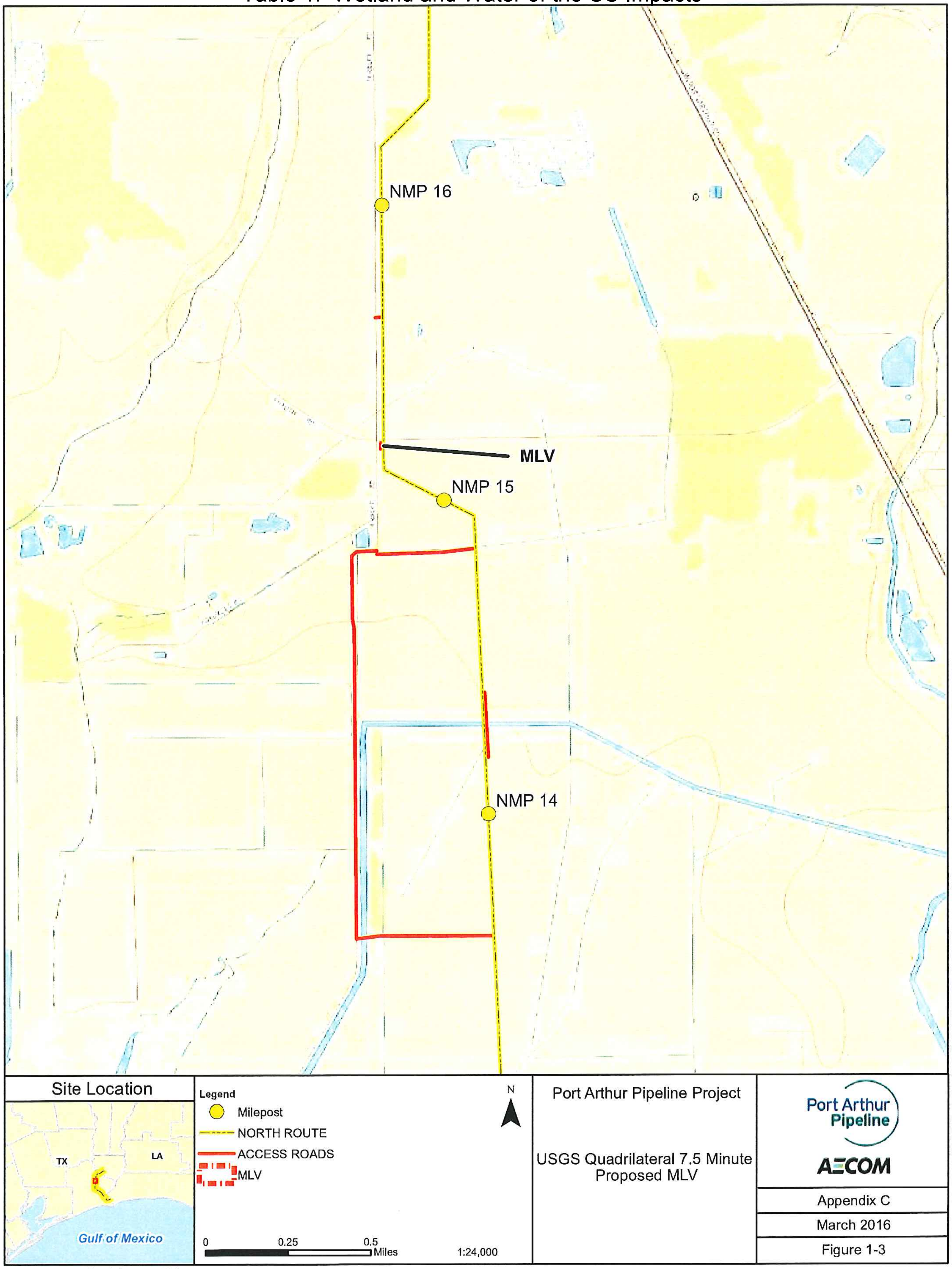
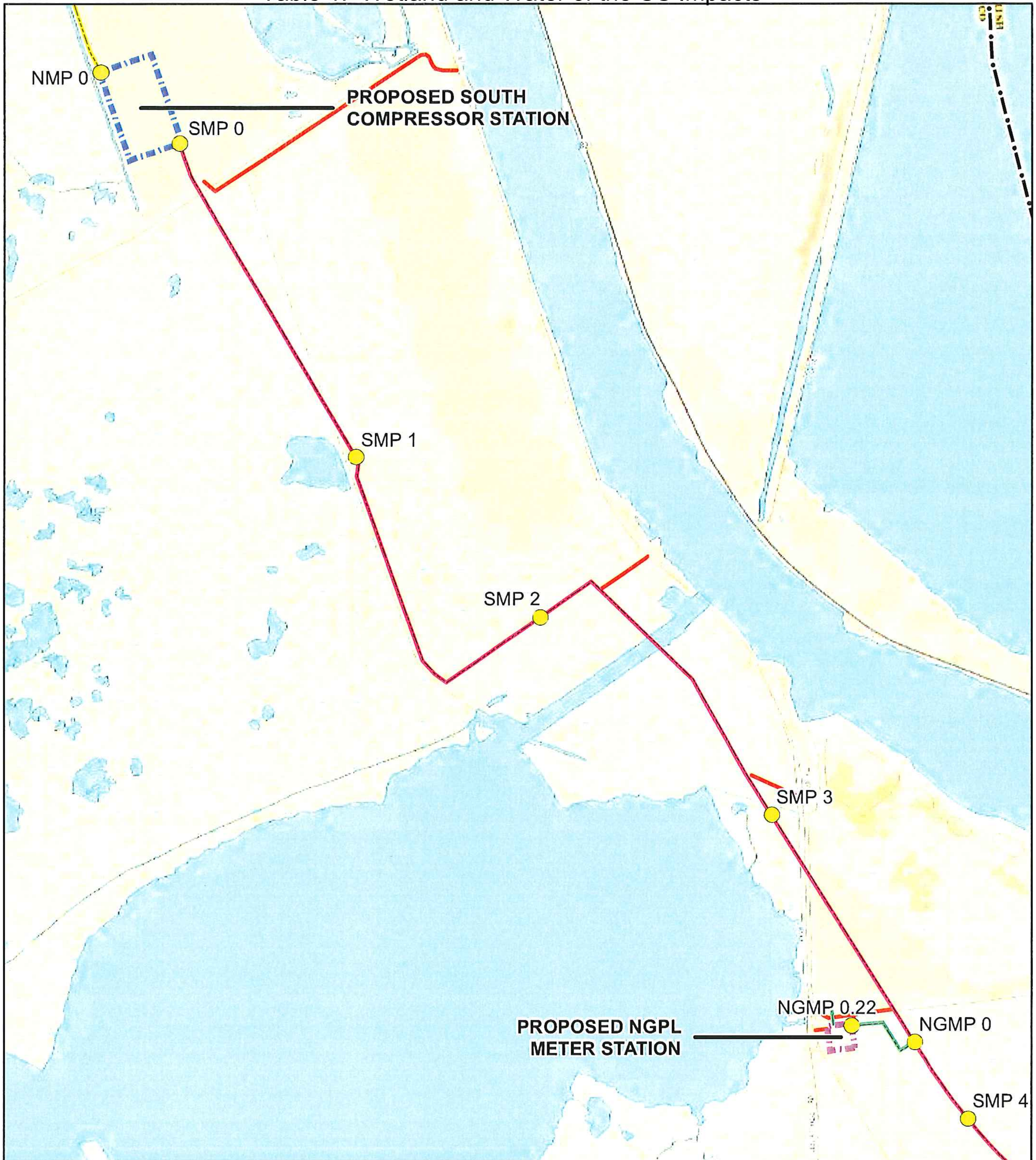


Data Source: ESRI and Sempra 2015
Map Projection: NAD83 UTM 15N (US Feet)

Table 1: Wetland and Water of the US Impacts



Site Location

Legend
- Milepost
- NORTH ROUTE
- SOUTH ROUTE
- NGPL LATERAL
- ACCESS ROADS
- PROPOSED METER STATION
- PROPOSED COMPRESSOR STATION
- State Boundary

N

0 0.25 0.5 Miles 1:24,000

Port Arthur Pipeline Project

USGS Quadrilateral 7.5 Minute
Proposed South
Compressor Station

Port Arthur Pipeline

AECOM

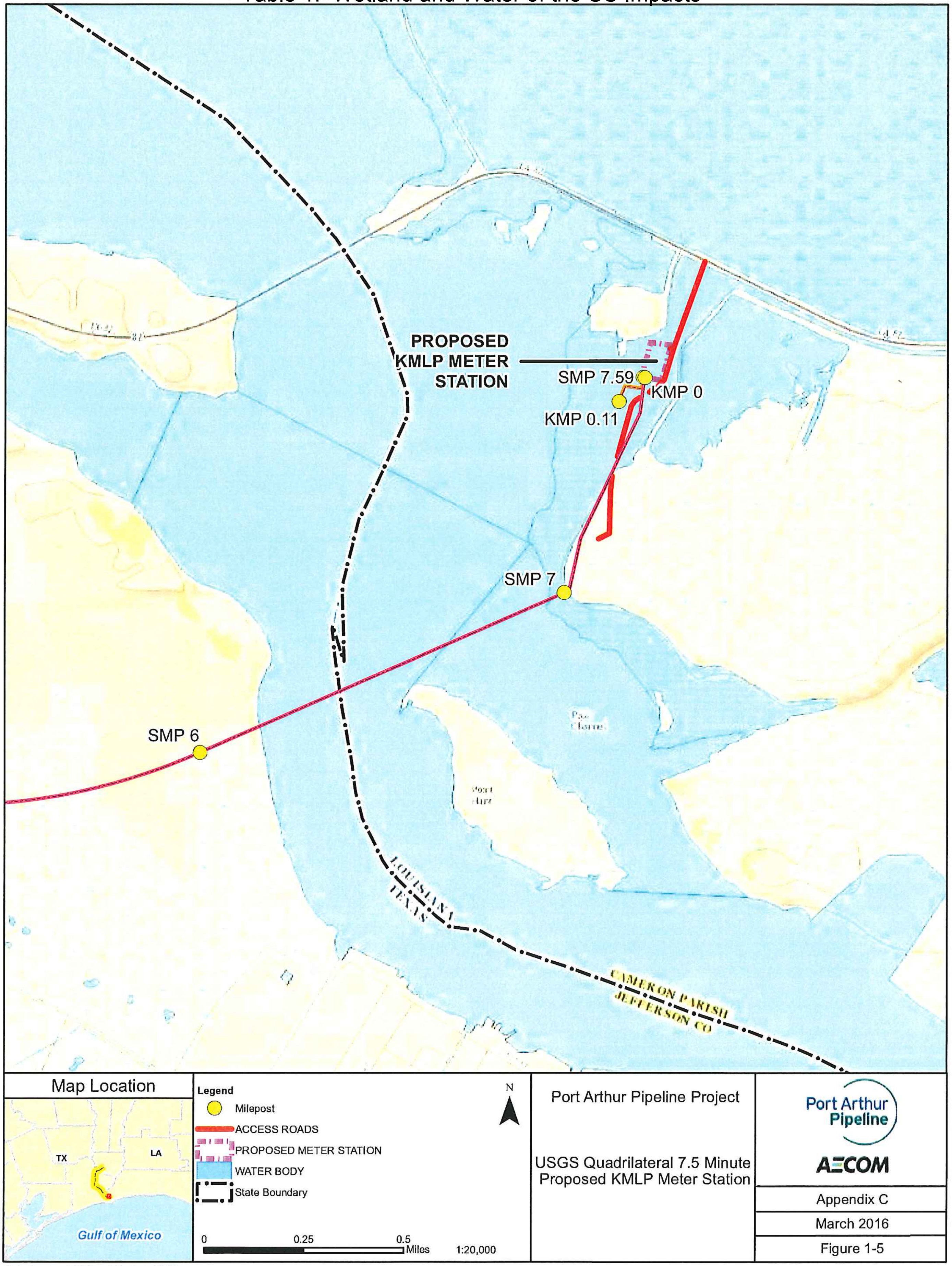
Appendix C

March 2016

Figure 1-4

Data Source: ESRI and Sempra 2015
Map Projection: NAD83 UTM 15N (US Feet)

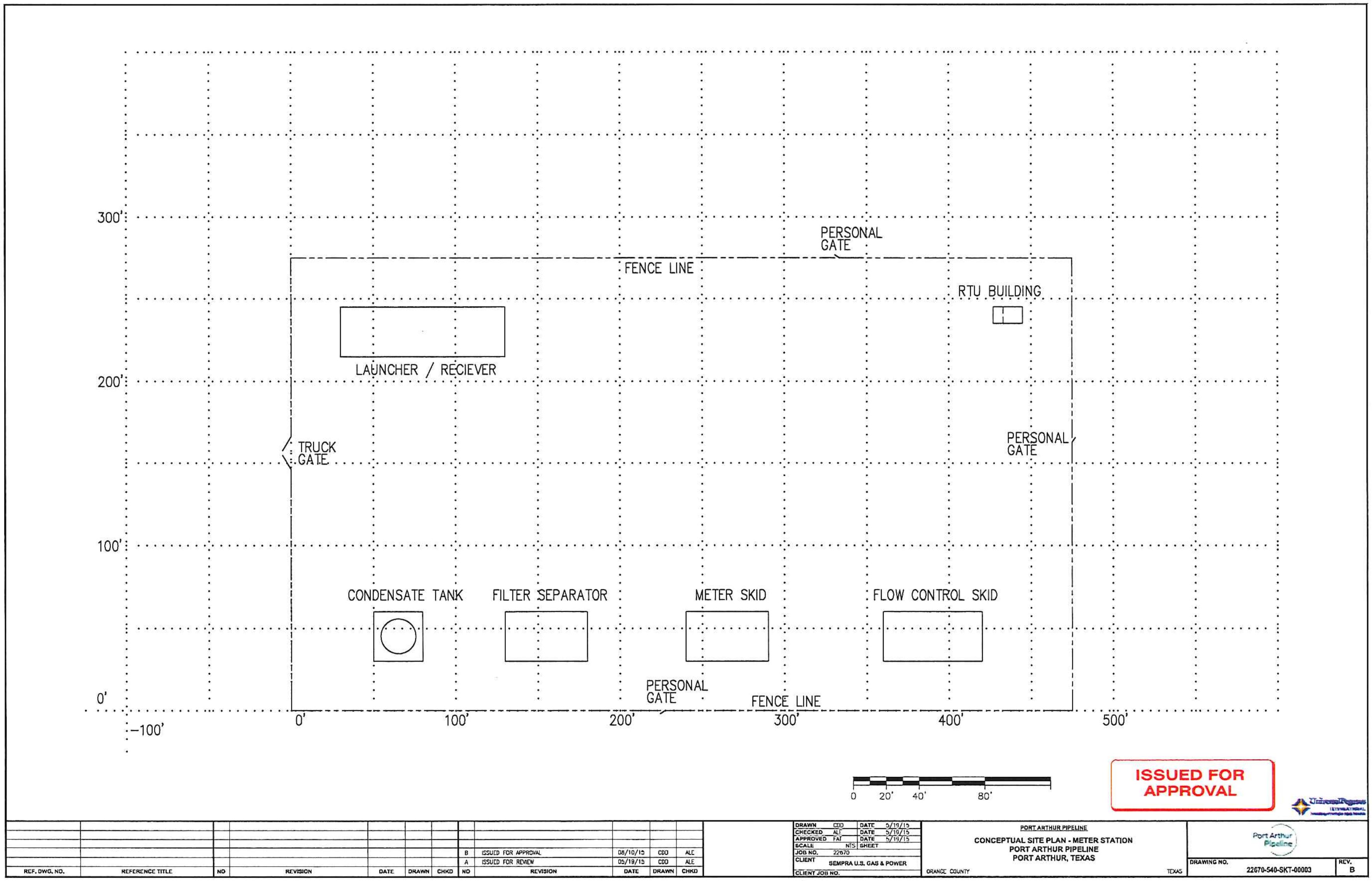
Table 1: Wetland and Water of the US Impacts



Data Source: ESRI and Sempra 2015
Map Projection: NAD83 UTM 15N (US Feet)

Typical Aboveground Facility Layouts
Port Arthur Pipeline Texas Connector

Table 1: Wetland and Water of the US Impacts



AUG 22 2018

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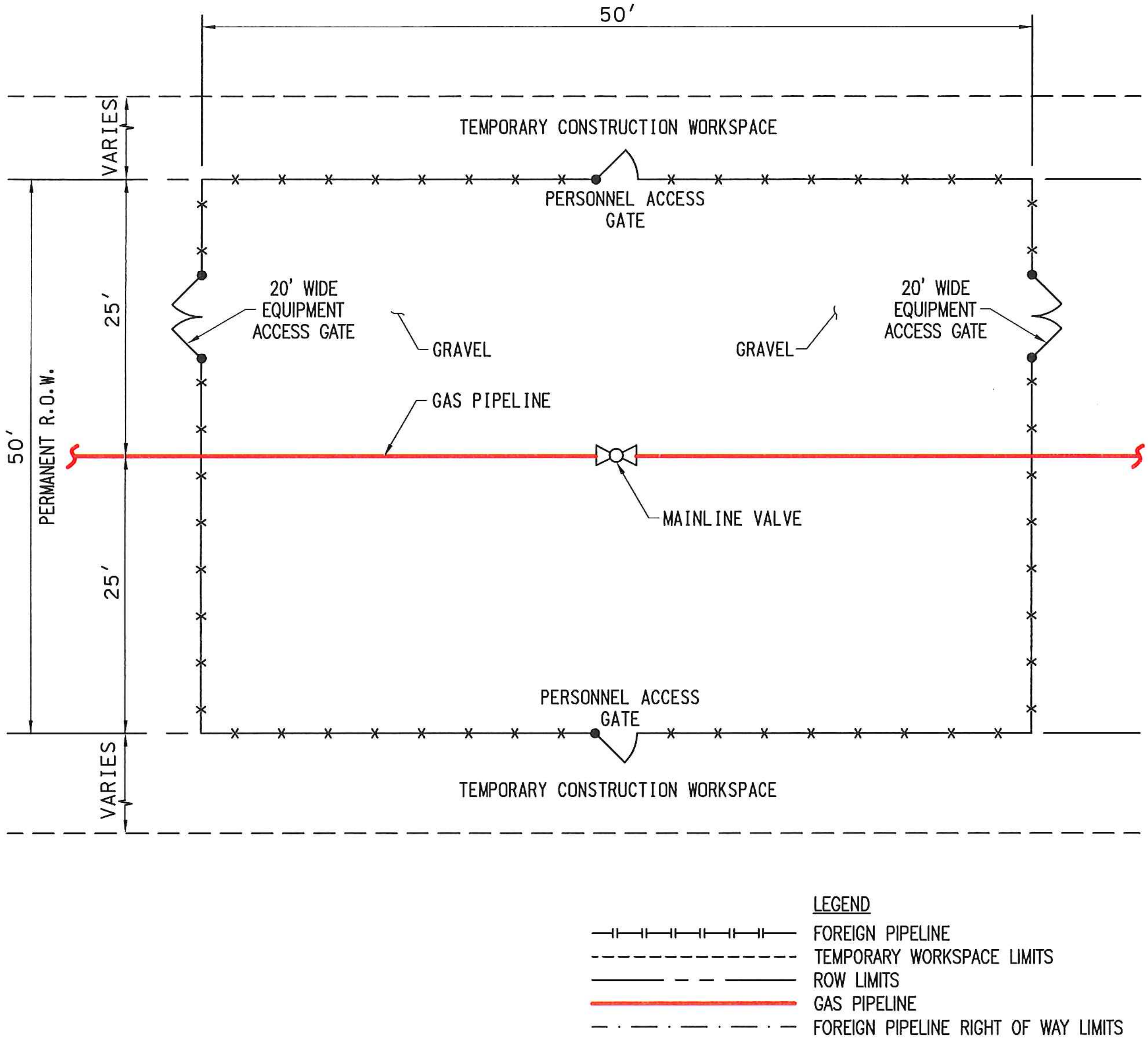
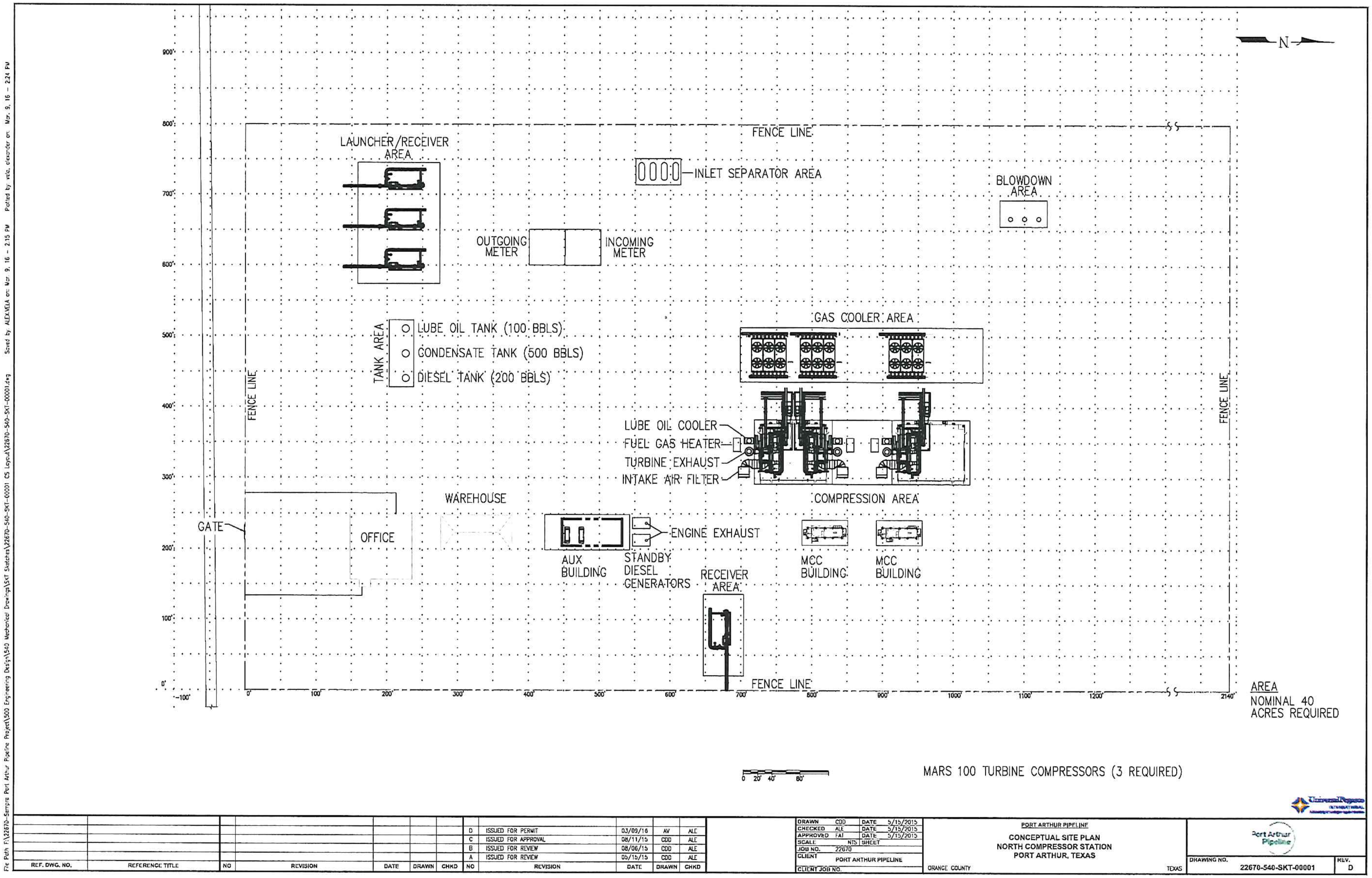


REVISIONS | A | ISSUED FOR REVIEW – 05/20/2015

Port Arthur Pipeline	ORIGINATOR: MN (NAME) 05/18/2015 (DATE)		TITLE: PORT ARTHUR PIPELINE TYPICAL PLOT PLAN MAINLINE VALVE SITE	
	CHECKED BY: NF	APPROVED BY: GAT	SCALE: N.T.S.	DWG. NO. 22670-510-TYP-20001 — REV. A

CADD DRAWING: DO NOT MAKE MANUAL REVISIONS

Table 1: Wetland and Water of the US Impacts



AUG 2 2 2018

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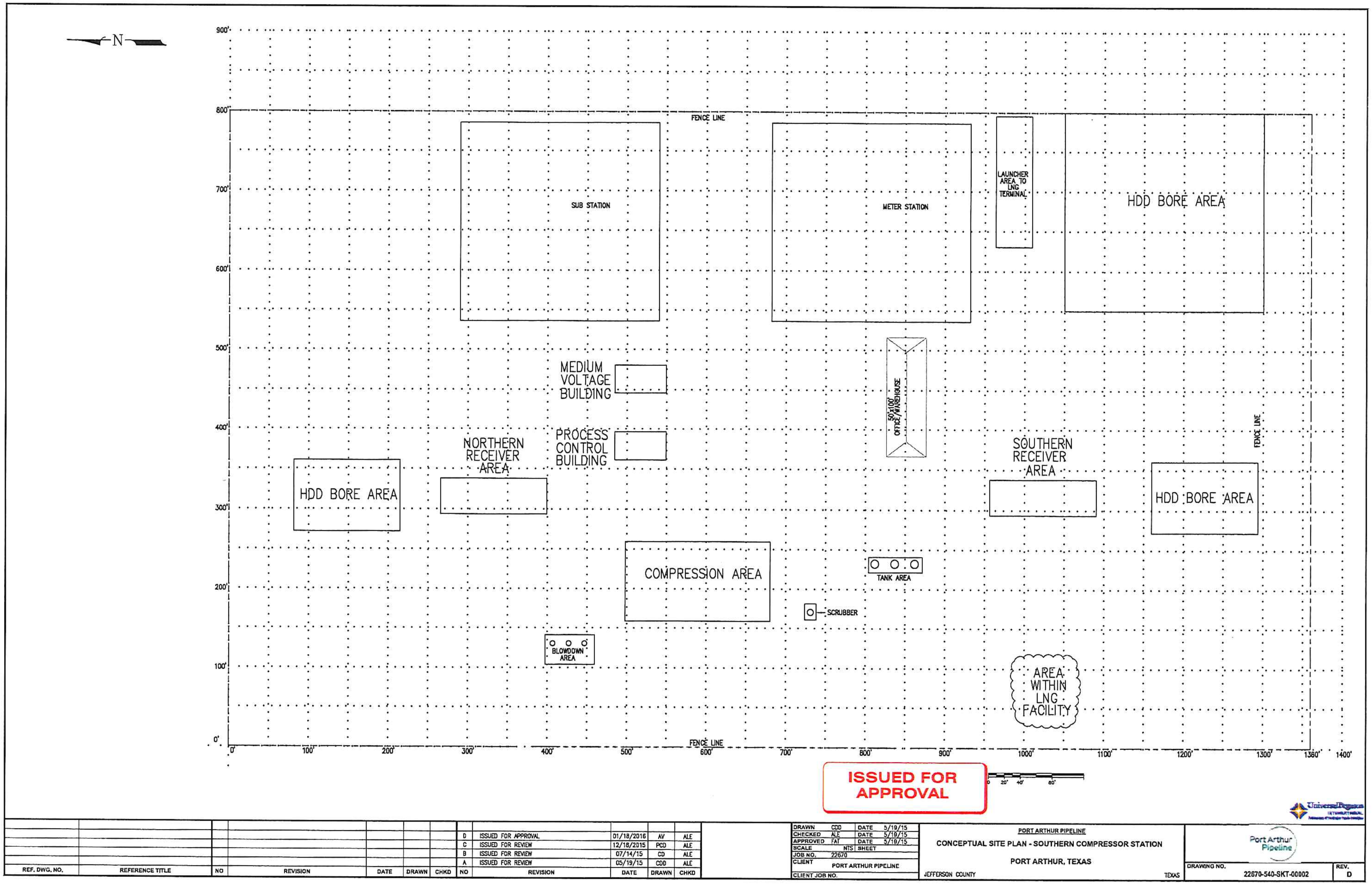

AUG 22 2018

Table 1: Wetland and Water of the US Impacts

NOTE:
1.) THESE PLATS ARE TO BE USED EXCLUSIVELY FOR THE ACQUISITION OF REGULATORY PERMITS.

LEGEND:

POTENTIAL DREDGED MATERIAL DISPOSAL AREAS

PROJECT BOUNDARY

TEMPORARY DISCHARGE PIPELINE APPROXIMATE IMPACT CALCULATIONS

±1.82 ACRES	OPEN WATER
±0.23 ACRES	NON-WETLANDS
±0.37 ACRES	PALUSTRINE EMERGENT WETLANDS
±0.11 ACRES	ESTUARINE EMERGENT WETLANDS

DRAWN BY: RRB	APPROVED BY: BST
DATE: 07/14/2016	JOB NO: 2015.0077
DRAWING NAME: 150077_C8_REV9.DWG	
SHEET NO: 14 OF 14	

PROJECTION: TEXAS SOUTH CENTRAL
GEO. DATUM: NAD83 | VERT. DATUM: NAVD88
GRID UNITS: US SURVEY FEET

SCALE: 1" = 6000'
6000' 3000' 0' 6000'

DREDGED MATERIAL DISPOSAL SITE

PROPOSED PORT ARTHUR LIQUEFACTION PROJECT

ABSTRACT NOS. 12, 71, 123, 185, 251,
331, 438, 488, 770, 780, & 927
JEFFERSON COUNTY, TEXAS

TBS T. BAKER SMITH
SOLUTIONS START HERE
107 Global Circle, Lafayette, LA 70503
(337)735-2800 - tbsmith.com

REV. NO: 9	REV. DATE: 10/31/2017	REV. BY: RLV

REVISION DESCRIPTION:
REVISE WETLAND ACREAGE.

11/2/2017 - P:\Y-2015\2015.0077\DWG\COE - ACTIVE\REV 9\150077_C8_REV9.DWG