

# JOINT PUBLIC NOTICE

**31 August 2020**

United States Army  
Corps of Engineers  
New Orleans District  
Regulatory Branch (ODR-E)  
7400 Leake Avenue  
New Orleans, Louisiana 70118

State of Louisiana  
Department of Environmental Quality  
ATTN: Water Quality Certifications  
Post Office Box 4313  
Baton Rouge, Louisiana 70821-4313

(504) 862-2279  
[angelle.v.greer@usace.army.mil](mailto:angelle.v.greer@usace.army.mil)  
Project Manager  
Angelle Greer  
Permit Application Number  
MVN-2020-00243-EG

(225) 219-3225  
Project Manager  
Elizabeth Hill  
WQC Application Number  
WQC 200825-01

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).

Application has also been made to the Louisiana Department of Environmental Quality, Water Quality Certifications, for a Water Quality Certification (WQC) in accordance with statutory authority contained in LRS30:2047 A(3), and provisions of Section 401 of the Clean Water Act (P.L.95-17).

## **MAINTENANCE DREDGING IN PLAQUEMINES PARISH**

**NAME OF APPLICANT:** Targa Midstream Services, LLC, c/o T. Baker Smith, LLC, Attention: Michael Trahan, Jr., P.O. Box 2266, Houma, LA 70361

**LOCATION OF WORK:** At approximately Latitude: 29.224822, Longitude: -89.396728, approximately 4.3 miles southwest of Venice, Louisiana, in Plaquemines Parish, as shown on the enclosed drawings.

Hydrologic Unit Code: 08090301 (Lower Mississippi- East Central Louisiana Coastal)

**CHARACTER OF WORK:** Perform maintenance dredging of silted-in access canals and boat slips in order to restore access to nine (9) existing liquefied petroleum gas wells. Approximately 65,761-cubic yards of material would be excavated from existing slips/facilities and placed over an

approximate 12.77-acre area to the west at a height conducive to marsh creation. Excavation activities would impact approximately 1.99-acres of emergent marsh wetlands, however, through beneficial use placement of dredged material, the project proposes to create approximately 12.77-acres of marsh wetlands.

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 mailed 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 mailed to the Corps of Engineers at the address above, **ATTENTION: REGULATORY BRANCH**. **Similar 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.**

Individuals or parties may request an extension of time in which to comment on the proposed work by writing 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.

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, prehistorical, 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.

The New Orleans District has determined that the project footprint is located in an area that may be known to be utilized by the West Indian Manatee. It has been determined that the activity is not likely to adversely affect the West Indian Manatee based on the Information & Planning Consultation for Endangered Species in Louisiana (IPaC), dated January 27, 2020 between the U.S. Army Corps of Engineers, New Orleans and U.S. Fish and Wildlife Service, Ecological Services Office. Standard Manatee Conditions for In-Water Activities will be included in the authorization, if granted.

Our initial finding is that the proposed work is Not Likely to Adversely Affect any species listed as endangered by the U.S. Departments of Commerce, nor affect any habitat designated as critical to the survival and recovery of such species.

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 approximately 23.13-acres of EFH utilized by various life stages of red drum and penaeid shrimp. Our initial determination is that the proposed action would have no 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, Water Quality Certifications, 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.

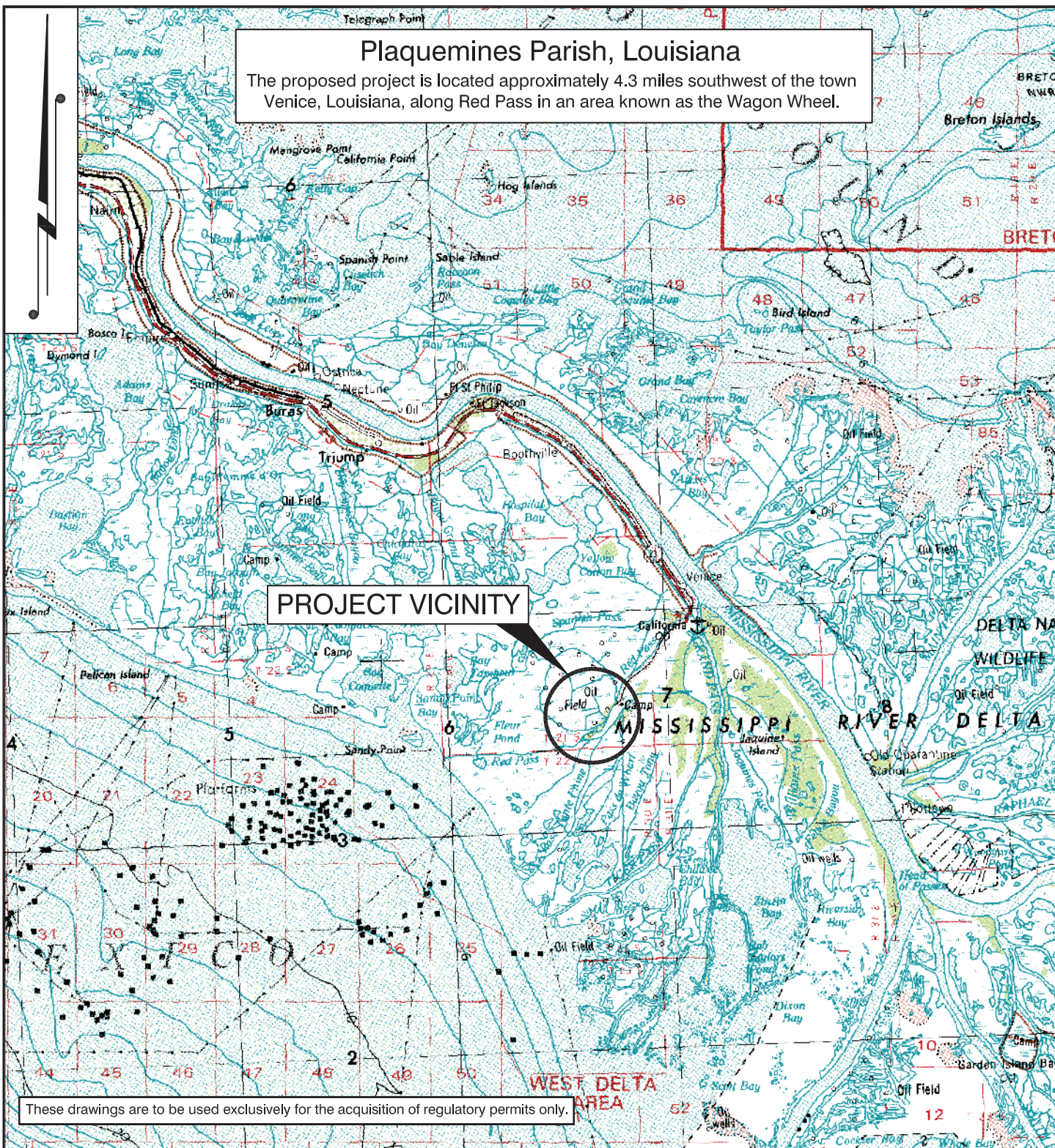
Michael V. Farabee  
Chief, Eastern Evaluation Section

Enclosure



# Plaquemines Parish, Louisiana

The proposed project is located approximately 4.3 miles southwest of the town Venice, Louisiana, along Red Pass in an area known as the Wagon Wheel.

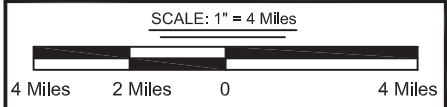


These drawings are to be used exclusively for the acquisition of regulatory permits only.

DRAWN BY:	ARC	APPROVED BY:	JMH
DATE:	01/17/2020	JOB NO.:	2019.0181
DRAWING NAME:	2019.0181 P1.DWG		
SHEET NO.:	1	OF	45
PROJECTION:	LA-S		
GEO. DATUM:	NAD83   VERT. DATUM: NAVD88		
GRID UNITS:	US SURVEY FEET		

## VICINITY MAP

**TARGA MIDSTREAM SERVICES LLC**  
 PROPOSED MAINTENANCE DREDGING  
 TO RESTORE ACCESS  
 TO EXISTING LPG STORAGE WELLS & BOAT SLIP  
 IN VENICE OIL & GAS FIELD  
 PLAQUEMINES PARISH, LOUISIANA



**T. BAKER SMITH**  
 A CENTURY OF SOLUTIONS  
 412 South Van Ave, Houma, LA 70363  
 (985)868-1050 - tbsmith.com

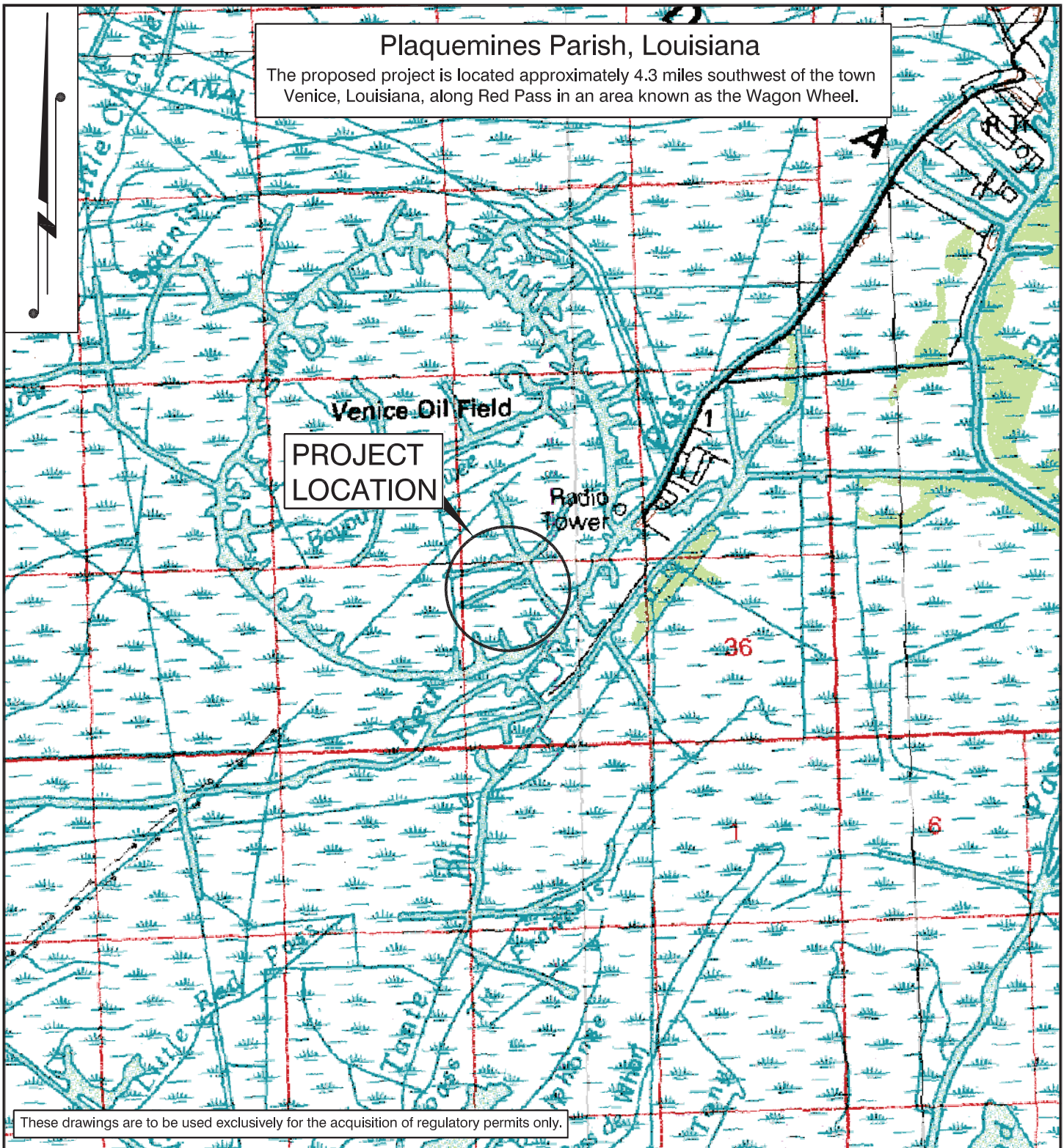
REV. NO.:	00	REV. DATE:	--/--	REV. BY:	--
REVISION DESCRIPTION:					
-					

1/21/2020 - P1.Y-2019(0181)DWG3/PERMIT DRAWINGS/4TH REVISION PERMIT/2019.0181 P1.DWG



# Plaquemines Parish, Louisiana

The proposed project is located approximately 4.3 miles southwest of the town Venice, Louisiana, along Red Pass in an area known as the Wagon Wheel.

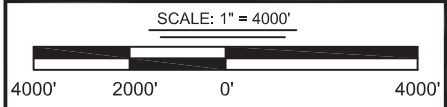


These drawings are to be used exclusively for the acquisition of regulatory permits only.

DRAWN BY:	ARC	APPROVED BY:	JMH
DATE:	01/17/2020	JOB NO:	2019.0181
DRAWING NAME:	2019.0181 P2.DWG		
SHEET NO:	2	OF	45
PROJECTION:	LA-S		
GEO. DATUM:	NAD83   VERT. DATUM: NAVD88		
GRID UNITS:	US SURVEY FEET		

## VICINITY MAP

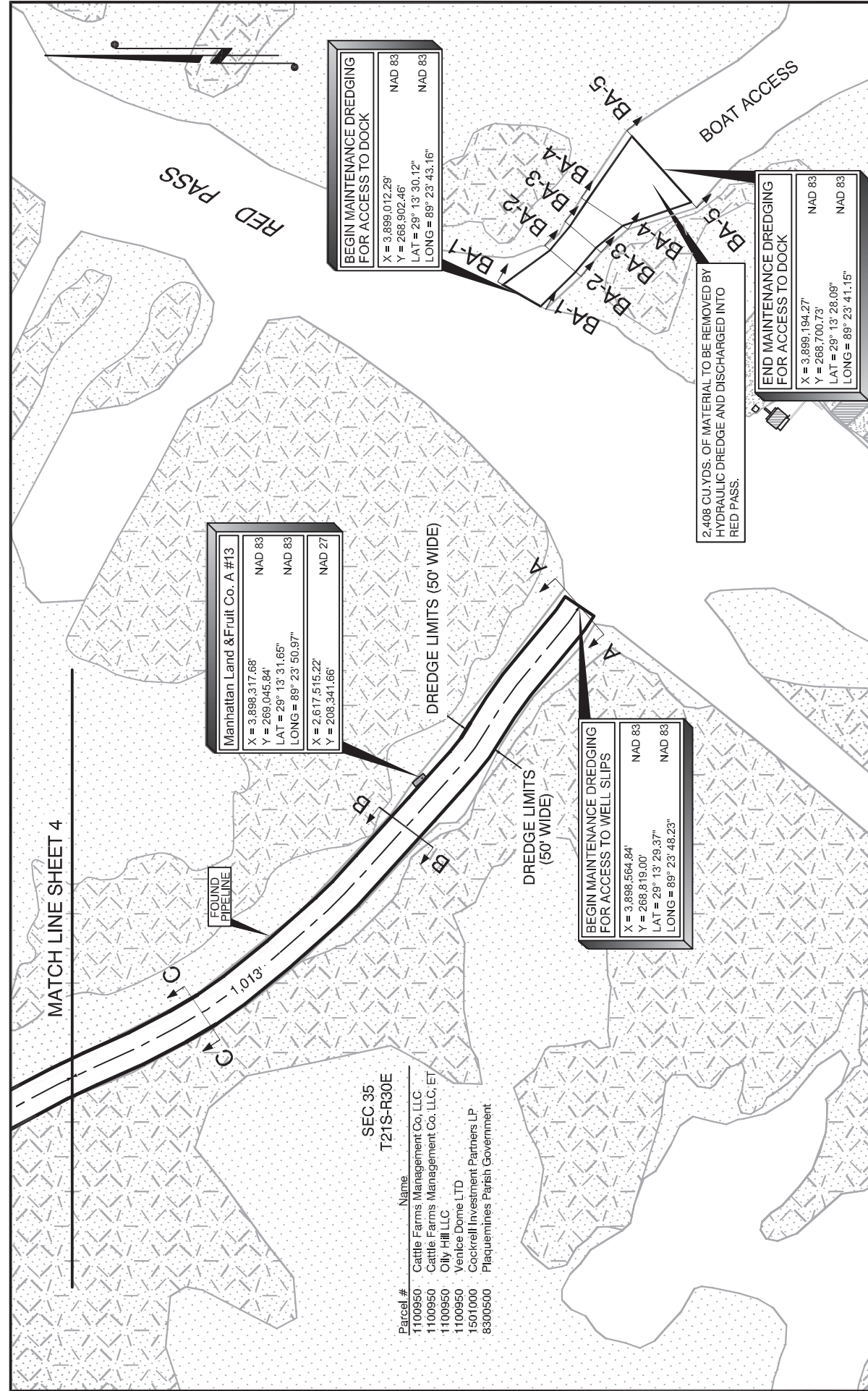
**TARGA MIDSTREAM SERVICES LLC**  
 PROPOSED MAINTENANCE DREDGING  
 TO RESTORE ACCESS  
 TO EXISTING LPG STORAGE WELLS & BOAT SLIP  
 IN VENICE OIL & GAS FIELD  
 PLAQUEMINES PARISH, LOUISIANA



**T. BAKER SMITH**  
 A CENTURY OF SOLUTIONS  
 412 South Van Ave, Houma, LA 70363  
 (985)868-1050 - tbsmith.com

REV. NO:	00	REV. DATE:	--/--	REV. BY:	--
REVISION DESCRIPTION:					
-					

1/21/2020 - P:\Y-2019\0181\DWG\PERMIT DRAWINGS\4TH REVISION PERMIT\2019.0181 P2.DWG



BEGIN MAINTENANCE DREDGING FOR ACCESS TO DOCK

X = 3,899,012.29' NAD 83  
 Y = 269,902.46' NAD 83  
 LAT = 29° 13' 30.12" NAD 83  
 LONG = 89° 23' 43.16" NAD 83

END MAINTENANCE DREDGING FOR ACCESS TO DOCK

X = 3,899,194.27' NAD 83  
 Y = 268,700.73' NAD 83  
 LAT = 29° 13' 28.09" NAD 83  
 LONG = 89° 23' 41.15" NAD 83

2,408 CU.YDS. OF MATERIAL TO BE REMOVED BY HYDRAULIC DREDGE AND DISCHARGED INTO RED PASS.

Manhattan Land & Fruit Co. A #13

X = 3,898,317.68' NAD 83  
 Y = 269,045.84' NAD 83  
 LAT = 29° 13' 31.65" NAD 83  
 LONG = 89° 23' 50.97" NAD 83  
 X = 2,617,515.22' NAD 27  
 Y = 208,341.66' NAD 27

BEGIN MAINTENANCE DREDGING FOR ACCESS TO WELL SLIPS

X = 3,898,564.84' NAD 83  
 Y = 268,819.00' NAD 83  
 LAT = 29° 13' 29.37" NAD 83  
 LONG = 89° 23' 48.23" NAD 83

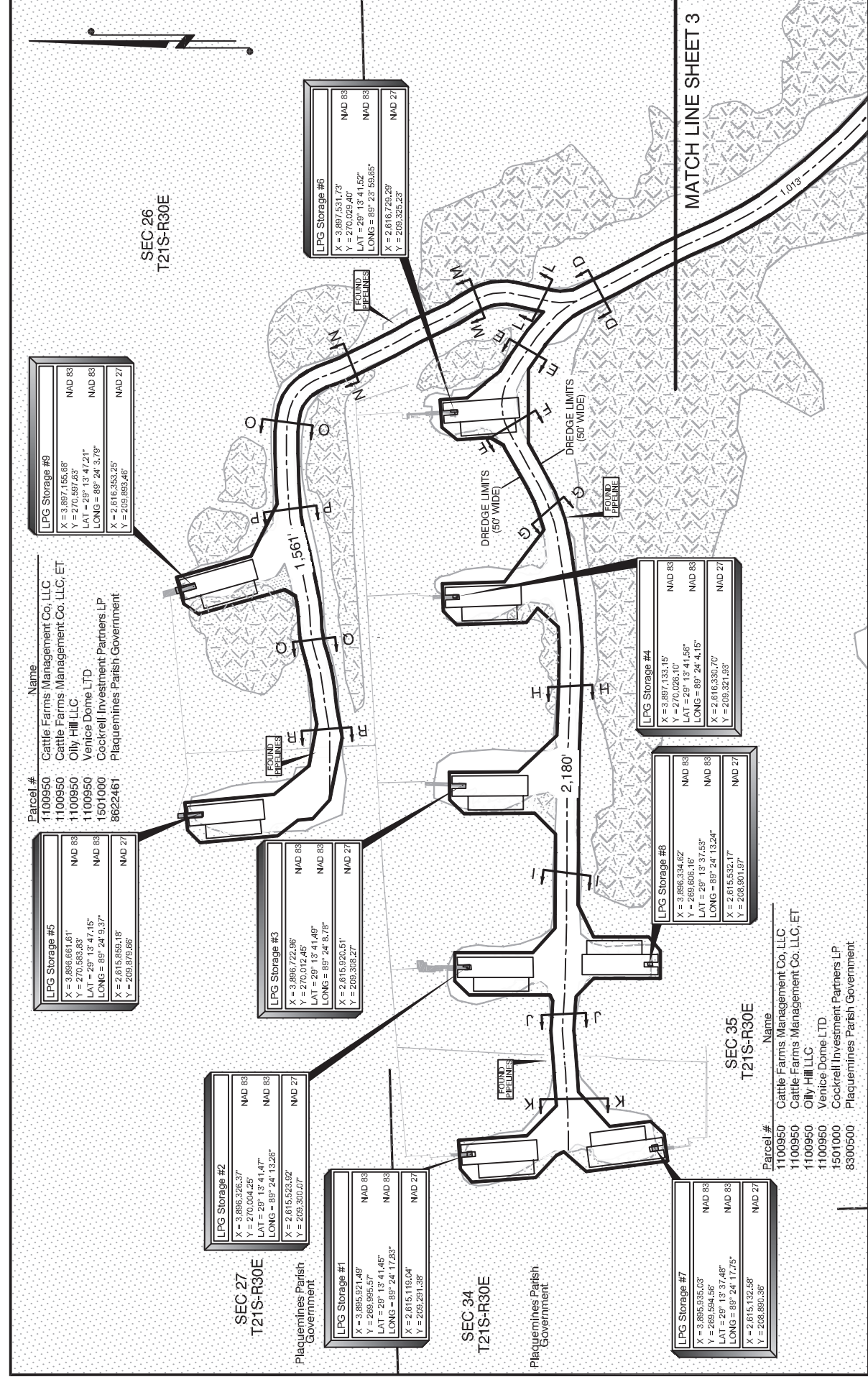
MATCH LINE SHEET 4

SEC 35  
T21S-R30E

Parcel #	Name
1100950	Cattle Farms Management Co, LLC
1100950	Cattle Farms Management Co. LLC, ET
1100950	Oily Hill LLC
1100950	Venice Dome LTD
1501000	Cockrell Investment Partners LP
8300500	Plaquemines Parish Government

<p><b>ACCESS ROUTE</b></p> <p><b>TARGA MIDSTREAM SERVICES LLC</b></p> <p>PROPOSED MAINTENANCE DREDGING TO RESTORE ACCESS TO EXISTING LPG WELLS AND BOAT SLIP IN THE VENICE OIL &amp; GAS FIELD PLAQUEMINES PARISH, LOUISIANA</p>	
<p>DRAWN BY: ARC</p> <p>DATE: 01/17/2020</p> <p>DRAWING NAME: 2019,0181 P3-P4.DWG</p> <p>SHEET NO: 3 OF 45</p> <p>PROJECTION: LA-S</p> <p>GEO. DATUM: NAD83   VERT. DATUM: NAVD88</p> <p>GRID UNITS: US SURVEY FEET</p>	<p>APPROVED BY: JMH</p> <p>JOB NO: 2019,0181</p> <p>2019,0181 P3-P4.DWG</p> <p>3 OF 45</p> <p>NAV/88</p> <p>US SURVEY FEET</p>
<p>SCALE: 1" = 200'</p> <p>200' 100' 0' 200'</p>	<p>REVISION DESCRIPTION:</p> <p>REV. NO: 00 REV. DATE: --/--/-- REV. BY: --</p>
<p><b>TBS</b></p> <p><b>T. BAKER SMITH</b></p> <p>A CENTURY OF SOLUTIONS</p> <p>412 South Van Ave, Houma, LA 70363</p> <p>(985)888-1050 - tbasmith.com</p>	





Parcel #	Name
1100950	Cattle Farms Management Co, LLC
1100950	Cattle Farms Management Co, LLC, ET
1100950	Oily Hill LLC
1100950	Venice Dome LTD
1501000	Cockrell Investment Partners LP
8622461	Plaquemines Parish Government

Parcel #	Name
1100950	Cattle Farms Management Co, LLC
1100950	Cattle Farms Management Co, LLC, ET
1100950	Oily Hill LLC
1100950	Venice Dome LTD
1501000	Cockrell Investment Partners LP
8622461	Plaquemines Parish Government

LPG Storage #	X	Y	LONG	LAT	REV
LPG Storage #5	3,896,661.61	270,583.83	89° 24' 13.26"	29° 13' 47.15"	NAD 83
LPG Storage #3	3,896,770.66	270,012.45	89° 24' 8.78"	29° 13' 41.49"	NAD 83
LPG Storage #1	3,895,921.49	269,955.57	89° 24' 17.83"	29° 13' 41.45"	NAD 83
LPG Storage #2	3,896,326.37	270,004.25	89° 24' 13.26"	29° 13' 41.47"	NAD 83
LPG Storage #7	3,895,935.03	269,594.56	89° 24' 17.75"	29° 13' 37.48"	NAD 83
LPG Storage #4	3,897,133.15	270,026.10	89° 24' 4.15"	29° 13' 37.53"	NAD 83
LPG Storage #8	3,896,334.62	269,606.16	89° 24' 13.24"	29° 13' 37.53"	NAD 83
LPG Storage #6	3,897,531.73	270,029.40	89° 23' 59.65"	29° 13' 41.52"	NAD 83
LPG Storage #9	3,897,155.68	270,587.82	89° 24' 3.78"	29° 13' 47.21"	NAD 83
LPG Storage #7	3,895,935.03	269,594.56	89° 24' 17.75"	29° 13' 37.48"	NAD 83
LPG Storage #4	3,897,133.15	270,026.10	89° 24' 4.15"	29° 13' 37.53"	NAD 83
LPG Storage #8	3,896,334.62	269,606.16	89° 24' 13.24"	29° 13' 37.53"	NAD 83
LPG Storage #6	3,897,531.73	270,029.40	89° 23' 59.65"	29° 13' 41.52"	NAD 83
LPG Storage #9	3,897,155.68	270,587.82	89° 24' 3.78"	29° 13' 47.21"	NAD 83

LPG Storage #	X	Y	LONG	LAT	REV
LPG Storage #5	3,896,661.61	270,583.83	89° 24' 13.26"	29° 13' 47.15"	NAD 83
LPG Storage #3	3,896,770.66	270,012.45	89° 24' 8.78"	29° 13' 41.49"	NAD 83
LPG Storage #1	3,895,921.49	269,955.57	89° 24' 17.83"	29° 13' 41.45"	NAD 83
LPG Storage #2	3,896,326.37	270,004.25	89° 24' 13.26"	29° 13' 41.47"	NAD 83
LPG Storage #7	3,895,935.03	269,594.56	89° 24' 17.75"	29° 13' 37.48"	NAD 83
LPG Storage #4	3,897,133.15	270,026.10	89° 24' 4.15"	29° 13' 37.53"	NAD 83
LPG Storage #8	3,896,334.62	269,606.16	89° 24' 13.24"	29° 13' 37.53"	NAD 83
LPG Storage #6	3,897,531.73	270,029.40	89° 23' 59.65"	29° 13' 41.52"	NAD 83
LPG Storage #9	3,897,155.68	270,587.82	89° 24' 3.78"	29° 13' 47.21"	NAD 83

LPG Storage #	X	Y	LONG	LAT	REV
LPG Storage #5	3,896,661.61	270,583.83	89° 24' 13.26"	29° 13' 47.15"	NAD 83
LPG Storage #3	3,896,770.66	270,012.45	89° 24' 8.78"	29° 13' 41.49"	NAD 83
LPG Storage #1	3,895,921.49	269,955.57	89° 24' 17.83"	29° 13' 41.45"	NAD 83
LPG Storage #2	3,896,326.37	270,004.25	89° 24' 13.26"	29° 13' 41.47"	NAD 83
LPG Storage #7	3,895,935.03	269,594.56	89° 24' 17.75"	29° 13' 37.48"	NAD 83
LPG Storage #4	3,897,133.15	270,026.10	89° 24' 4.15"	29° 13' 37.53"	NAD 83
LPG Storage #8	3,896,334.62	269,606.16	89° 24' 13.24"	29° 13' 37.53"	NAD 83
LPG Storage #6	3,897,531.73	270,029.40	89° 23' 59.65"	29° 13' 41.52"	NAD 83
LPG Storage #9	3,897,155.68	270,587.82	89° 24' 3.78"	29° 13' 47.21"	NAD 83

**SEC 26**  
T21S-R30E

**SEC 34**  
T21S-R30E

**SEC 35**  
T21S-R30E

**ACCESS ROUTE**

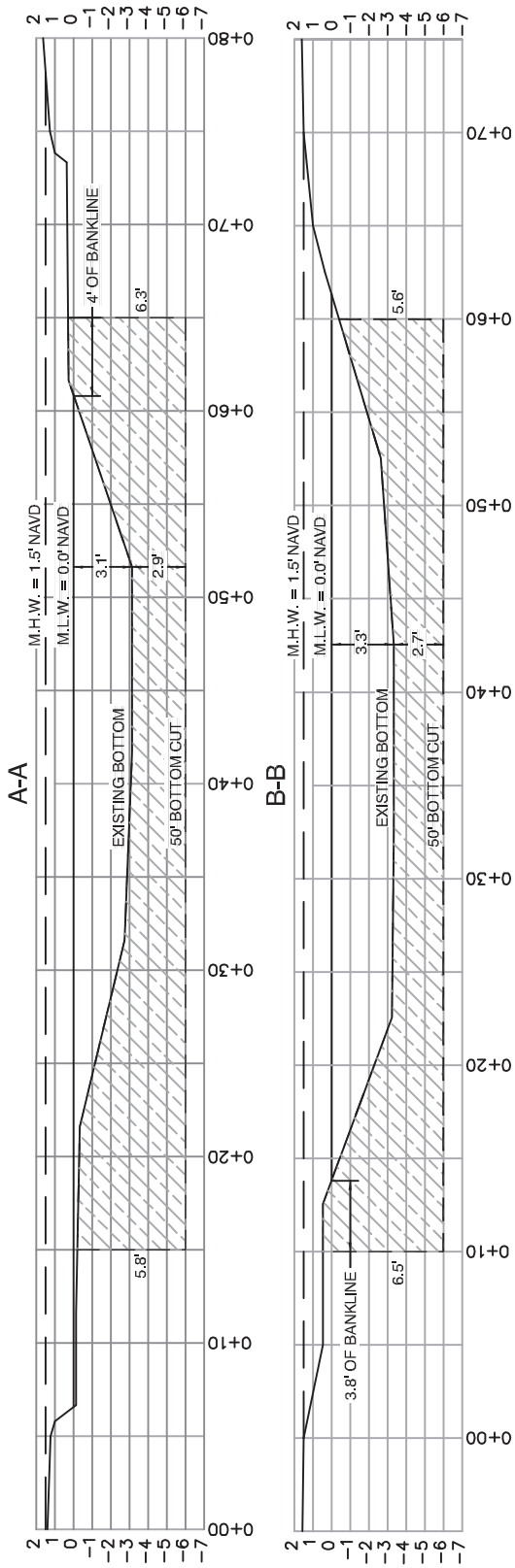
**TARGA MIDSTREAM SERVICES LLC**  
PROPOSED MAINTENANCE DREDGING  
TO RESTORE ACCESS TO  
EXISTING LPG WELLS AND BOAT SLIP  
IN THE VENICE OIL & GAS FIELD  
PLAQUEMINES PARISH, LOUISIANA

SCALE: 1" = 300'

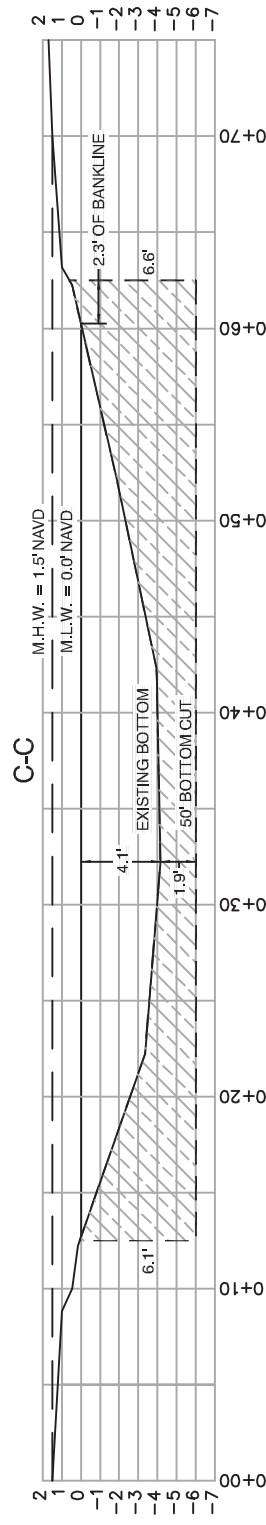
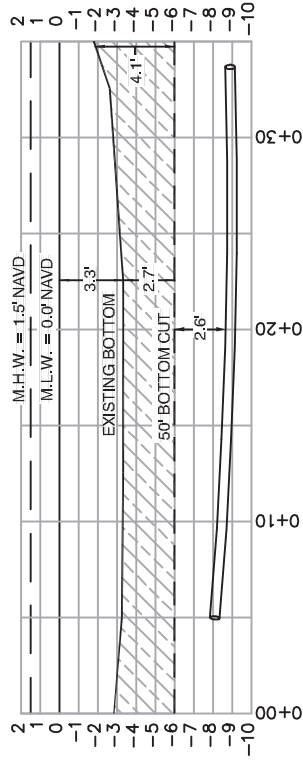
DRAWN BY:	ARC	APPROVED BY:	JMH
DATE:	01/17/2020	JOB NO:	2019,0181
DRAWING NAME:	2019,0181 P3-P4.DWG		
SHEET NO:	4	OF	45
PROJECTION: LA-S	PROJ. DATUM: NAD83   VERT. DATUM: NAVD88		
GRID UNITS:	US SURVEY FEET		
REVISION DESCRIPTION:	_		

REV. NO:	00	REV. DATE:	--/--	REV. BY:	--
----------	----	------------	-------	----------	----

**T. BAKER SMITH**  
A CENTURY OF SOLUTIONS  
412 South Van Ave. Houma, LA 70363  
(985)888-1050 - tbasmith.com



**PIPELINE CROSSING**



These drawings are to be used exclusively for the acquisition of regulatory permits only.

SCALE: 1" = 10'

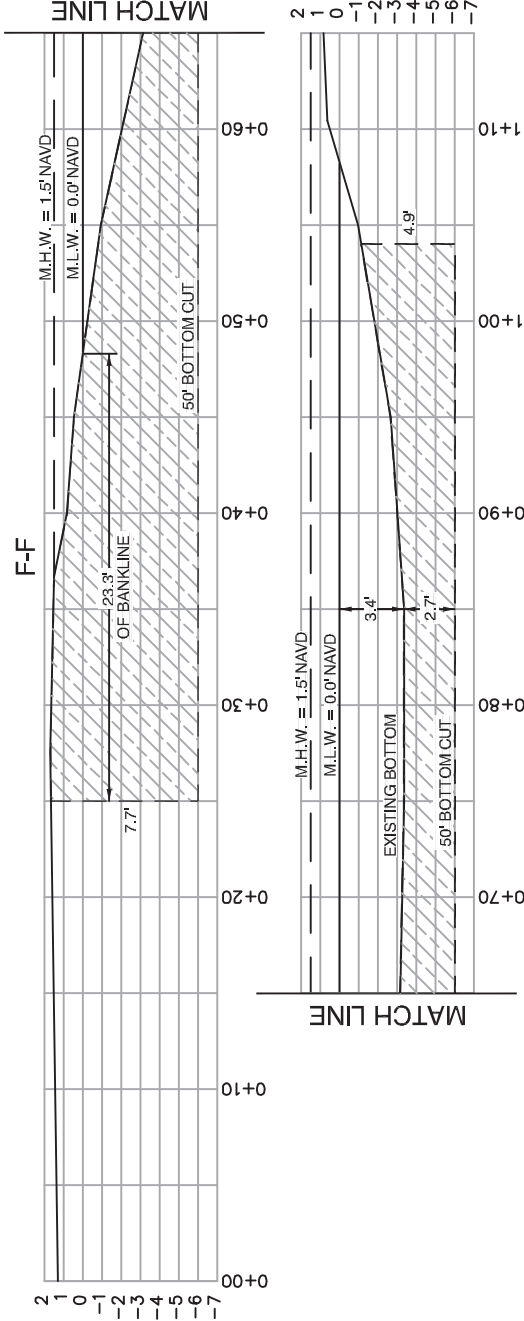
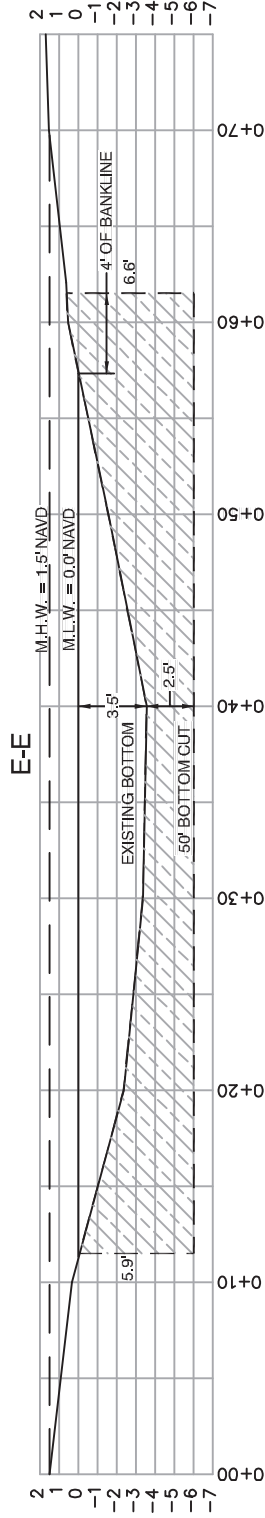
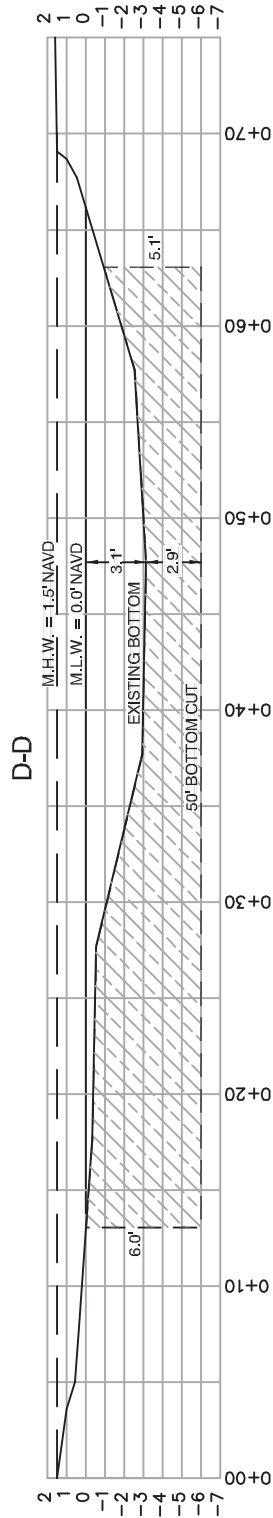
DRAWN BY: ARC	APPROVED BY: JMH
DATE: 01/17/2020	JOB NO: 2019.0181
DRAWING NAME: 2019.0181 PIPELINE XING.DWG	
SHEET NO: 5	OF 45
PROJECTION: LA-S	
GEO. DATUM: NAD83   VERT. DATUM: NAVD88	
GRID UNITS: US SURVEY FEET	
REVISION DESCRIPTION:	

**ACCESS ROUTE CROSS SECTIONS**

**TARGA MIDSTREAM SERVICES LLC**  
 PROPOSED MAINTENANCE DREDGING  
 TO RESTORE ACCESS TO  
 EXISTING LPG STORAGE WELLS & BOAT SLIP  
 IN THE VENICE OIL & GAS FIELD  
 PLAQUEMINES PARISH, LOUISIANA

**T. BAKER SMITH**  
 A CENTURY OF SOLUTIONS  
 412 South Van Ave, Houma, LA 70363  
 (866)988-1060 - tbsmith.com

REV. NO: 00	REV. DATE: --/--/--	REV. BY: --
-------------	---------------------	-------------



These drawings are to be used exclusively for the acquisition of regulatory permits only.

SCALE: 1" = 10'



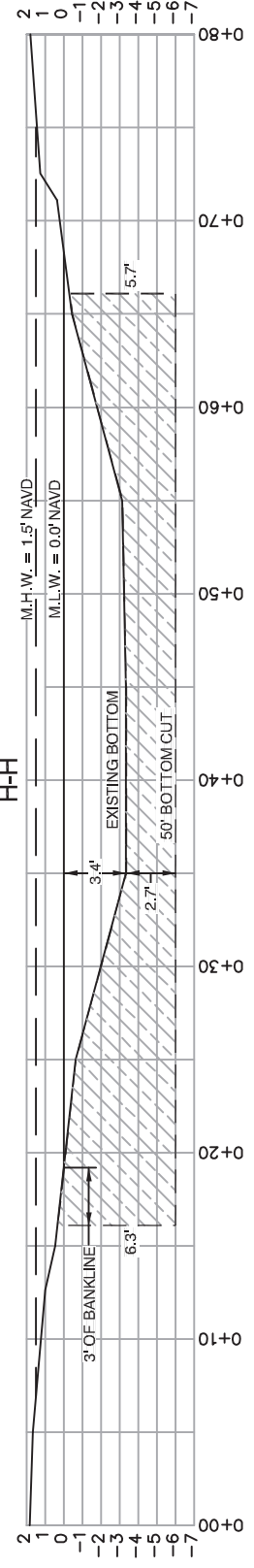
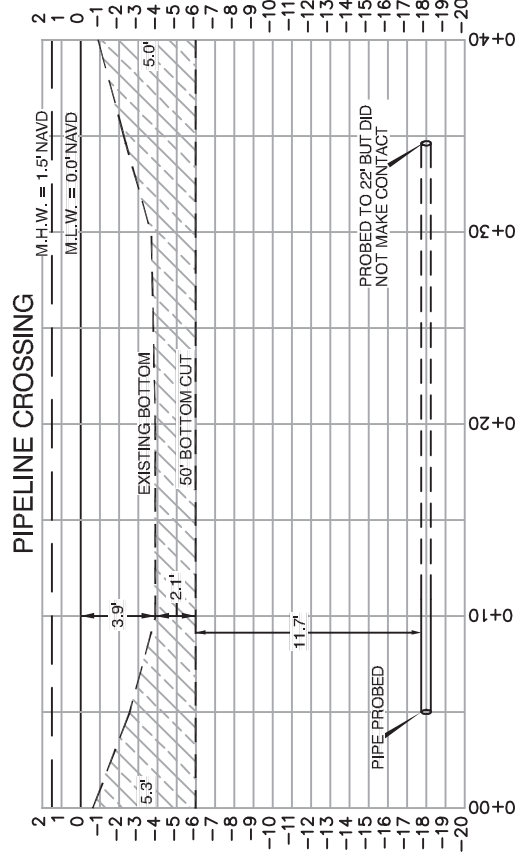
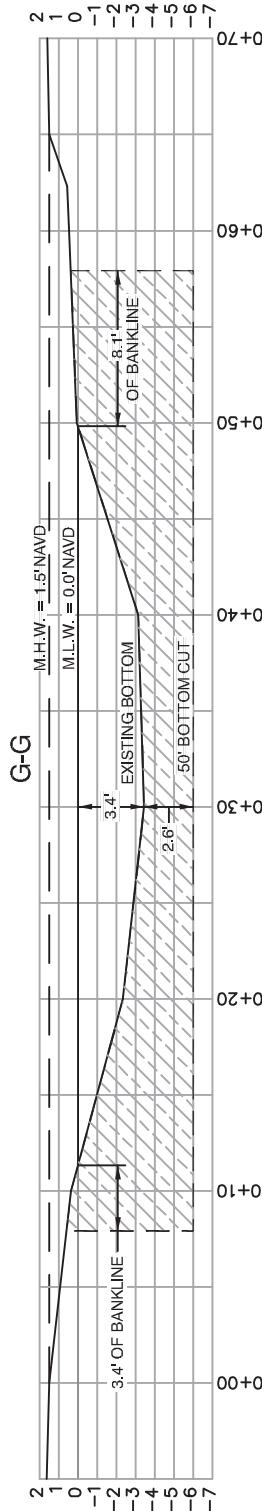
DRAWN BY: ARC	APPROVED BY: JMH
DATE: 01/17/2020	JOB NO: 2019.0181
DRAWING NAME: 2019.0181 PIPELINE XING.DWG	
SHEET NO: 6	OF 45
PROJECTION: LA-S	
GEO. DATUM: NAD83   VERT. DATUM: NAVD88	
GRID UNITS: US SURVEY FEET	
REVISION DESCRIPTION:	

**ACCESS ROUTE CROSS SECTIONS**

**TARGA MIDSTREAM SERVICES LLC**  
PROPOSED MAINTENANCE DREDGING  
TO RESTORE ACCESS TO  
EXISTING LPG STORAGE WELLS & BOAT SLIP  
IN THE VENICE OIL & GAS FIELD  
PLAQUEMINES PARISH, LOUISIANA

**T. BAKER SMITH**  
A CENTURY OF SOLUTIONS  
412 South Van Ave., Houma, LA 70363  
(985) 988-1060 - tbs@tbs.com

REV. NO: 00	REV. DATE: --/--/--	REV. BY: --
-------------	---------------------	-------------



These drawings are to be used exclusively for the acquisition of regulatory permits only.



DRAWN BY: ARC	APPROVED BY: JMH
DATE: 01/17/2020	JOB NO: 2019.0181
DRAWING NAME: 2019.0181 PIPELINE XING.DWG	
SHEET NO: 7	OF 45
PROJECTION: LA-S	
GEO. DATUM: NAD83   VERT. DATUM: NAVD88	
GRID UNITS: US SURVEY FEET	
REVISION DESCRIPTION:	

**ACCESS ROUTE CROSS SECTIONS**

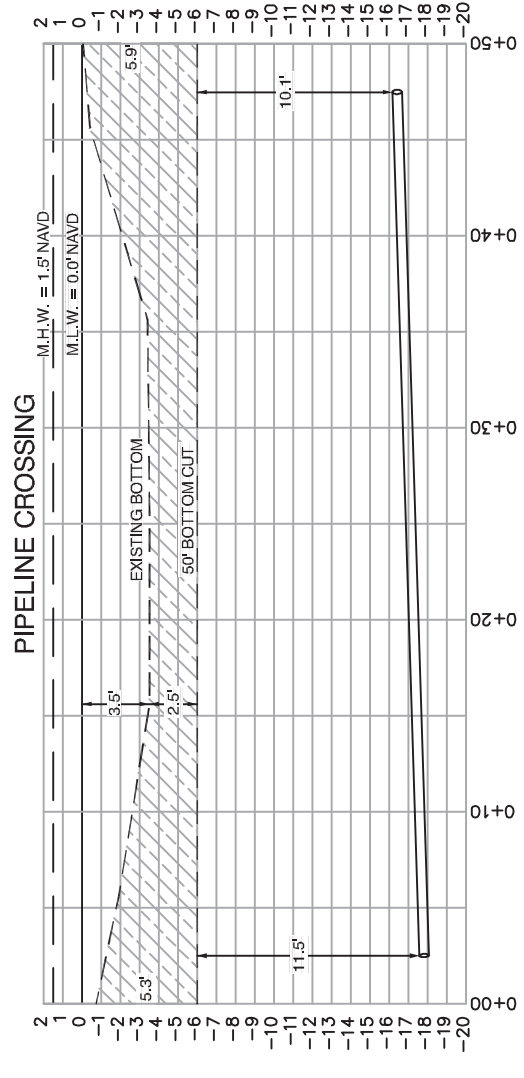
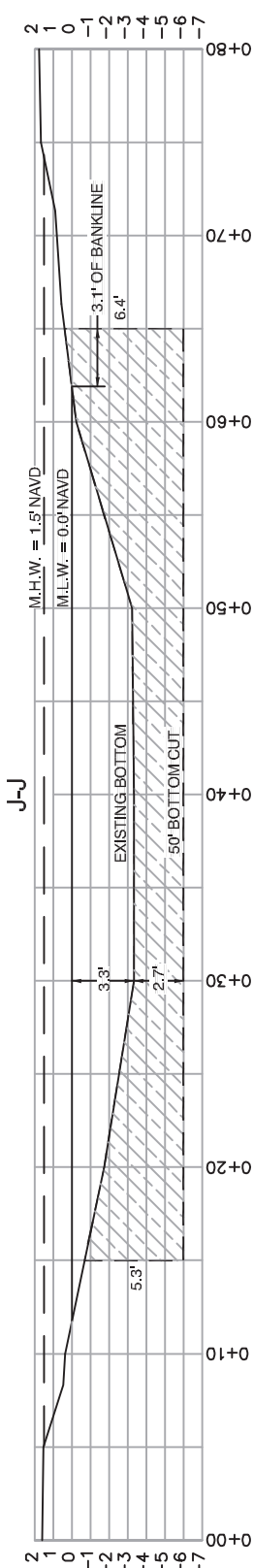
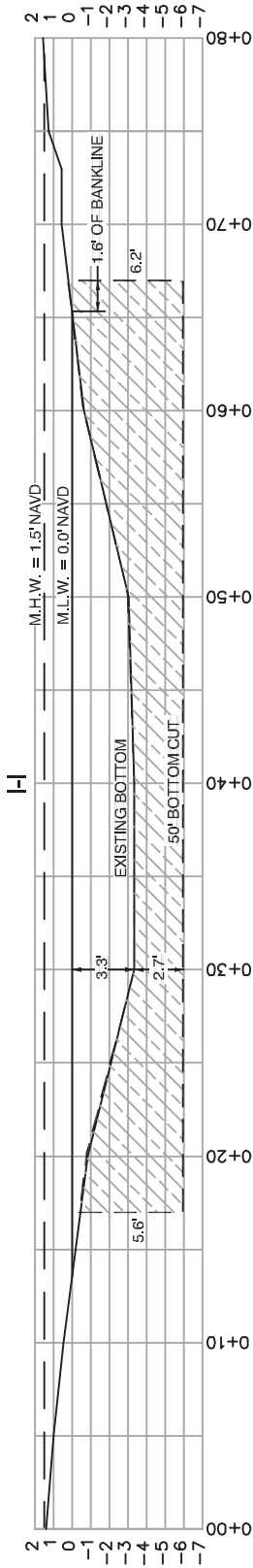
**TARGA MIDSTREAM SERVICES LLC**

PROPOSED MAINTENANCE DREDGING  
TO RESTORE ACCESS TO  
EXISTING LPG STORAGE WELLS & BOAT SLIP  
IN THE VENICE OIL & GAS FIELD  
PLAQUEMINES PARISH, LOUISIANA

**T. BAKER SMITH**  
A CENTURY OF SOLUTIONS  
412 South Van Ave, Houma, LA 70363  
(865)888-1060 - tbs@tbs.com

REV. NO: 00	REV. DATE: --/--/--	REV. BY: --
-------------	---------------------	-------------





These drawings are to be used exclusively for the acquisition of regulatory permits only.



DRAWN BY: ARC	APPROVED BY: JMH
DATE: 01/17/2020	JOB NO: 2019.0181
DRAWING NAME: 2019.0181 PIPELINE XING.DWG	
SHEET NO: 8	OF 45
PROJECTION: LA-S	
GEO. DATUM: NAD83   VERT. DATUM: NAVD88	
GRID UNITS: US SURVEY FEET	
REVISION DESCRIPTION:	

## ACCESS ROUTE CROSS SECTIONS

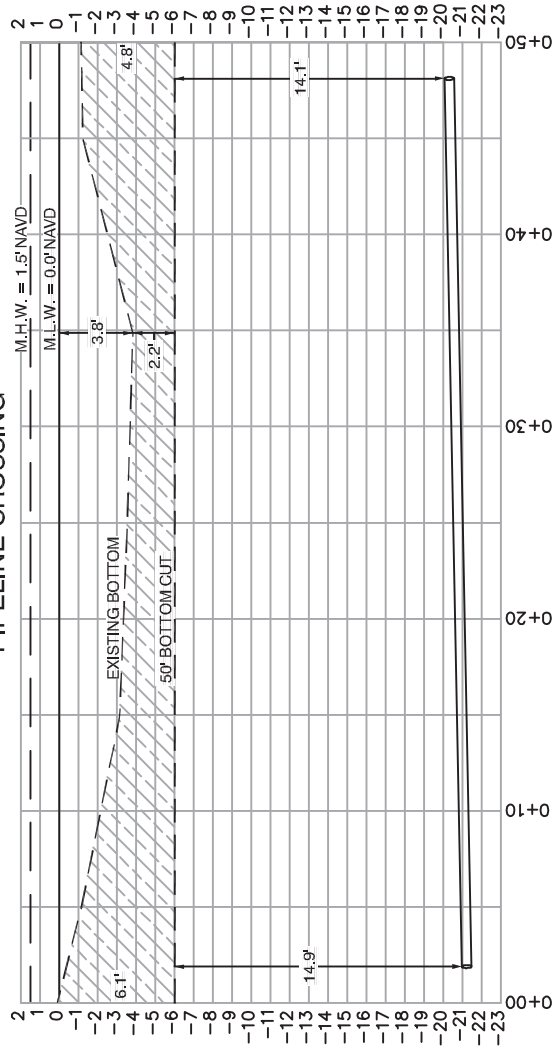
**TARGA MIDSTREAM SERVICES LLC**  
 PROPOSED MAINTENANCE DREDGING  
 TO RESTORE ACCESS TO  
 EXISTING LPG STORAGE WELLS & BOAT SLIP  
 IN THE VENICE OIL & GAS FIELD  
 PLAQUEMINES PARISH, LOUISIANA

**T. BAKER SMITH**  
 A CENTURY OF SOLUTIONS  
 412 South Van Ave, Houma, LA 70363  
 (866)888-1060 - tbs@tbsm.com

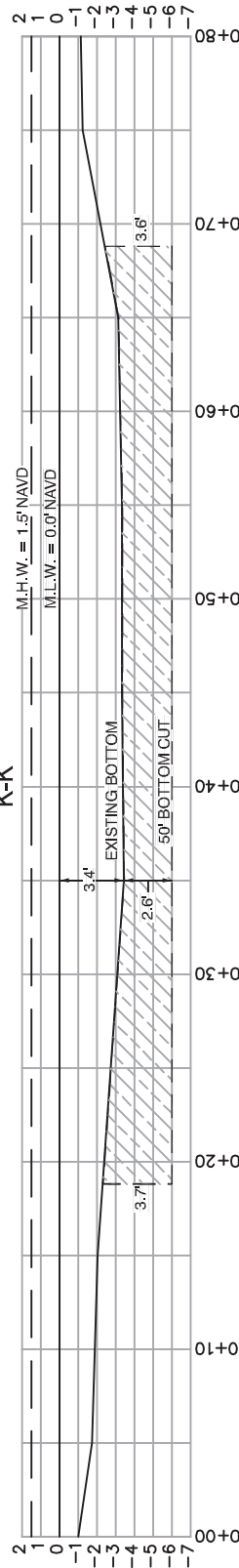
REV. NO: 00	REV. DATE: --/--/--	REV. BY: --
-------------	---------------------	-------------



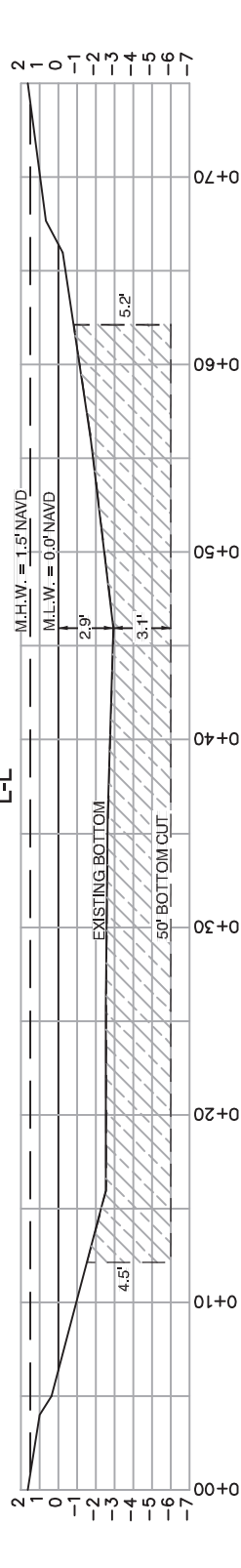
PIPELINE CROSSING



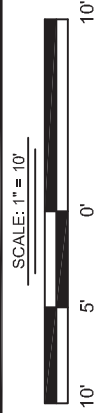
K-K



L-L



These drawings are to be used exclusively for the acquisition of regulatory permits only.



DRAWN BY: ARC	APPROVED BY: JMH
DATE: 01/17/2020	JOB NO: 2019.0181
DRAWING NAME: 2019.0181 PIPELINE XING.DWG	
SHEET NO: 9	OF 45
PROJECTION: LA-S	
GEO. DATUM: NAD83   VERT. DATUM: NAVD88	
GRID UNITS: US SURVEY FEET	
REVISION DESCRIPTION:	

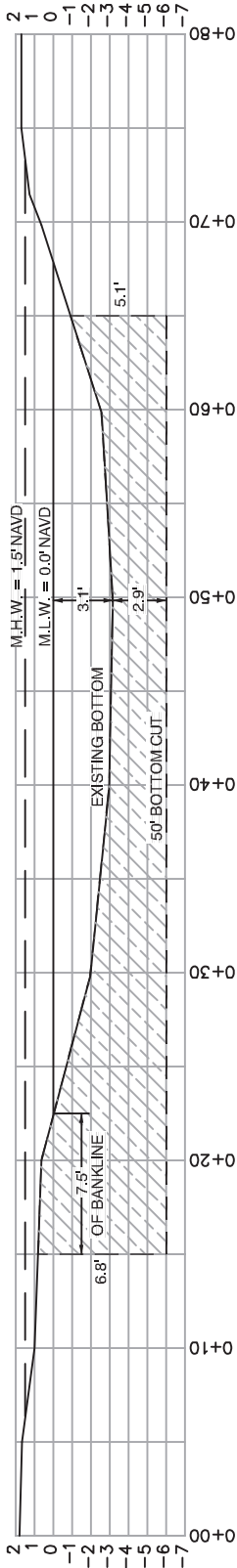
ACCESS ROUTE CROSS SECTIONS

**TARGA MIDSTREAM SERVICES LLC**  
 PROPOSED MAINTENANCE DREDGING  
 TO RESTORE ACCESS TO  
 EXISTING LPG STORAGE WELLS & BOAT SLIP  
 IN THE VENICE OIL & GAS FIELD  
 PLAQUEMINES PARISH, LOUISIANA

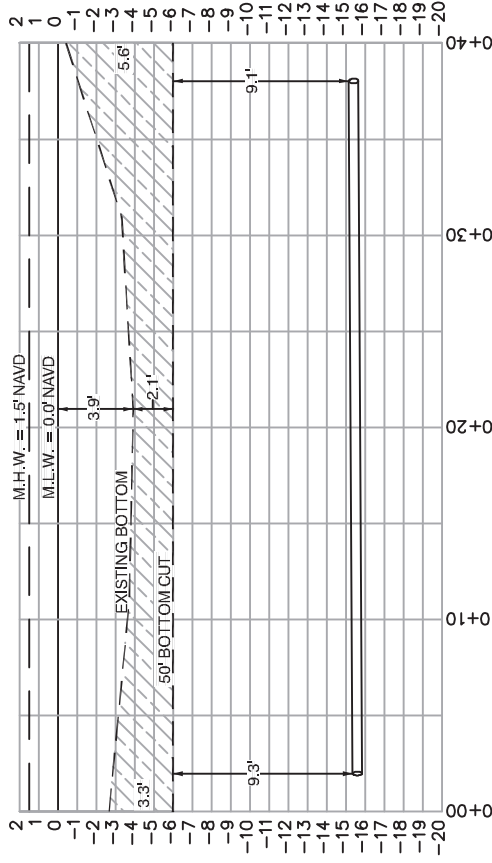
**T. BAKER SMITH**  
 A CENTURY OF SOLUTIONS  
 412 South Van Ave, Houma, LA 70363  
 (865)888-1060 - tbs@tbs.com

REV. NO: 00	REV. DATE: --/--/--	REV. BY: --
-------------	---------------------	-------------

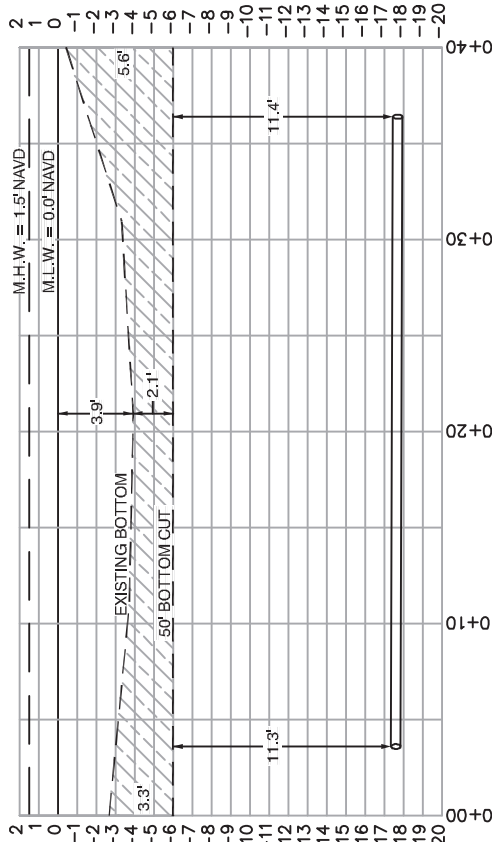
M-M



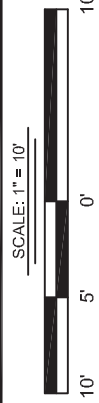
PIPELINE CROSSING



PIPELINE CROSSING



These drawings are to be used exclusively for the acquisition of regulatory permits only.



DRAWN BY: ARC	APPROVED BY: JMH
DATE: 01/17/2020	JOB NO: 2019.0181
DRAWING NAME: 2019.0181 PIPELINE XING.DWG	
SHEET NO: 10	OF 45
PROJECTION: LA-S	
GEO. DATUM: NAD83   VERT. DATUM: NAVD88	
GRID UNITS: US SURVEY FEET	
REVISION DESCRIPTION:	

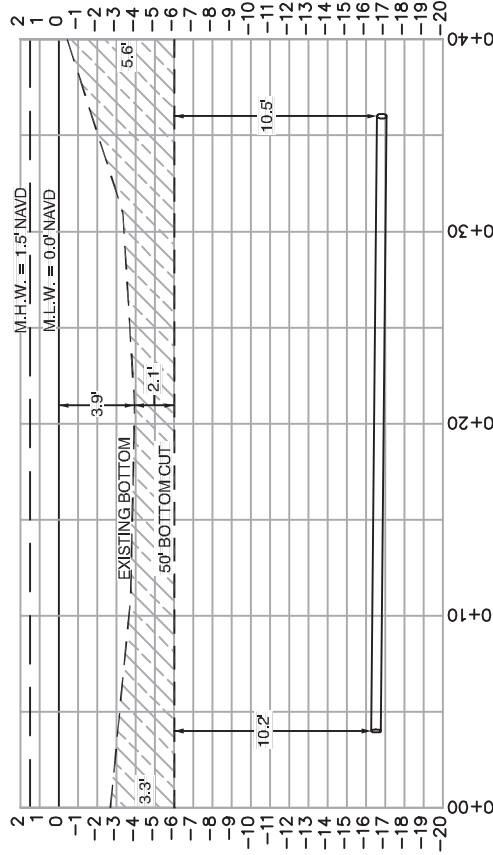
ACCESS ROUTE CROSS SECTIONS

**TARGA MIDSTREAM SERVICES LLC**  
 PROPOSED MAINTENANCE DREDGING  
 TO RESTORE ACCESS TO  
 EXISTING LPG STORAGE WELLS & BOAT SLIP  
 IN THE VENICE OIL & GAS FIELD  
 PLAQUEMINES PARISH, LOUISIANA

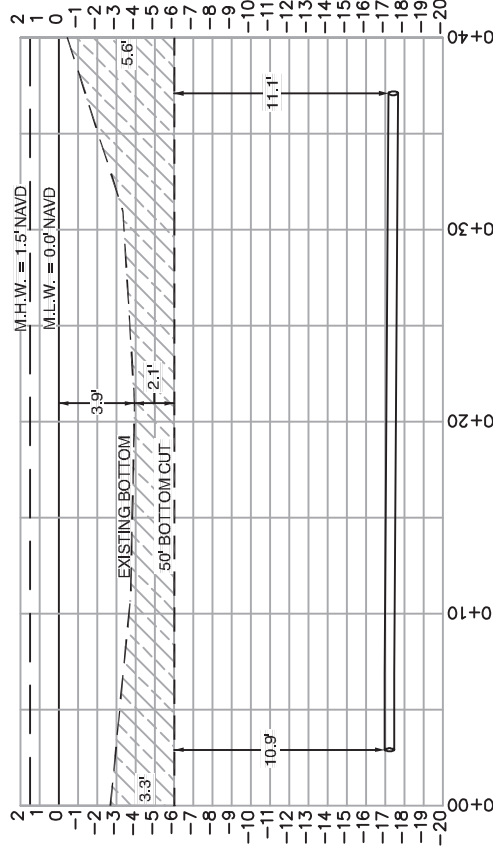
**TBS**  
**T. BAKER SMITH**  
 A CENTURY OF SOLUTIONS  
 412 South Van Ave, Houma, LA 70363  
 (865)888-1050 - tbs@tbsmith.com

REV. NO: 00	REV. DATE: --/--/---	REV. BY: --
-------------	----------------------	-------------

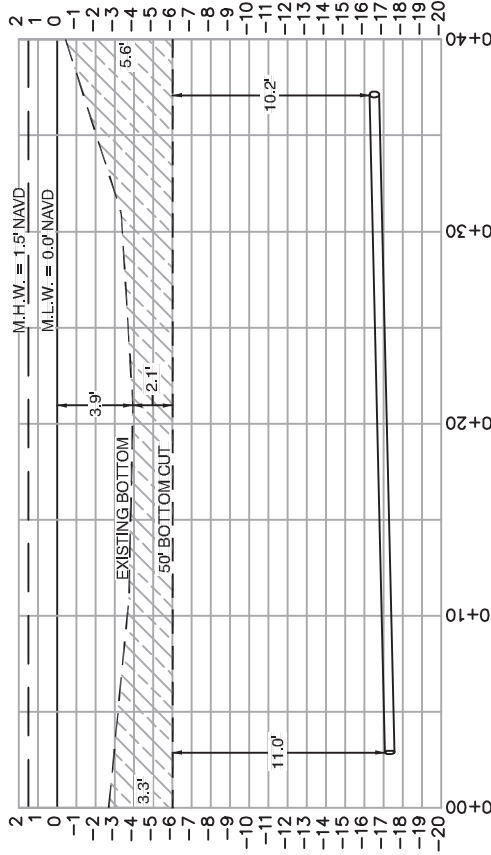
PIPELINE CROSSING



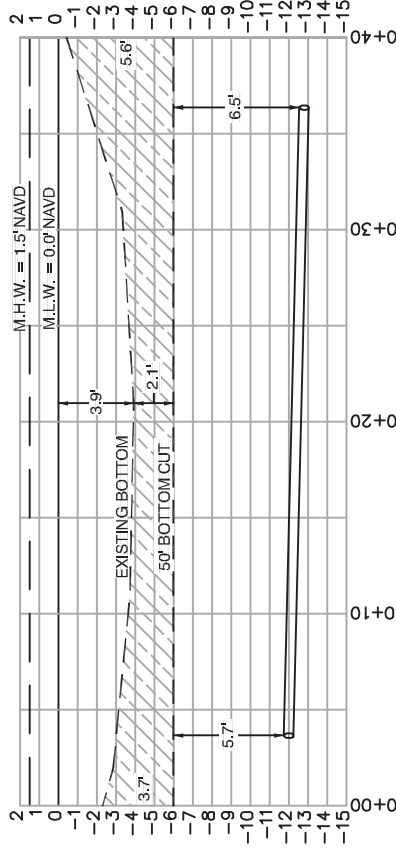
PIPELINE CROSSING



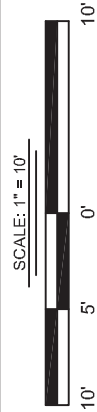
PIPELINE CROSSING



PIPELINE CROSSING



These drawings are to be used exclusively for the acquisition of regulatory permits only.



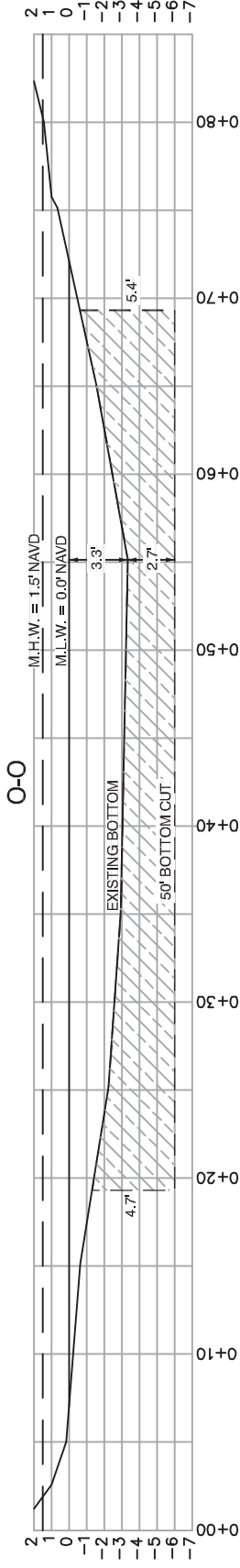
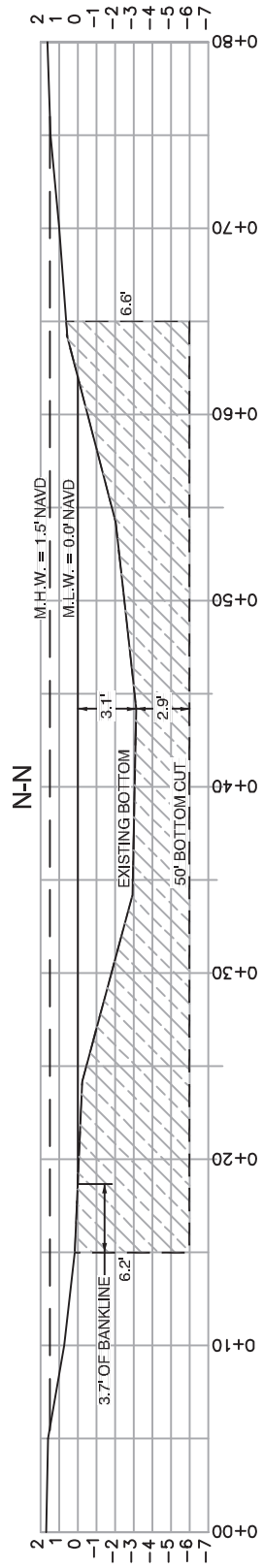
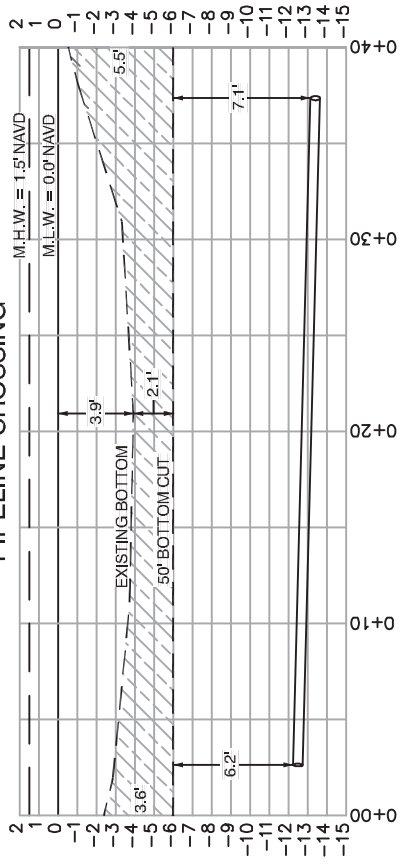
DRAWN BY: ARC	APPROVED BY: JMH
DATE: 01/17/2020	JOB NO: 2019.0181
DRAWING NAME: 2019.0181 PIPELINE XING.DWG	
SHEET NO: 11	OF 45
PROJECTION: LA-S	
GEO. DATUM: NAD83   VERT. DATUM: NAVD88	
GRID UNITS: US SURVEY FEET	
REVISION DESCRIPTION:	

**TBS**  
**T. BAKER SMITH**  
A CENTURY OF SOLUTIONS  
412 South Van Ave., Houma, LA 70363  
(855) 688-1050 | tbsmith.com

ACCESS ROUTE CROSS SECTIONS  
TARGA MIDSTREAM SERVICES LLC  
PROPOSED MAINTENANCE DREDGING  
TO RESTORE ACCESS TO  
EXISTING LPG STORAGE WELLS & BOAT SLIP  
IN THE VENICE OIL & GAS FIELD  
PLAQUEMINES PARISH, LOUISIANA

REV. NO: 00	REV. DATE: --/--/--	REV. BY: --
-------------	---------------------	-------------

PIPELINE CROSSING



These drawings are to be used exclusively for the acquisition of regulatory permits only.



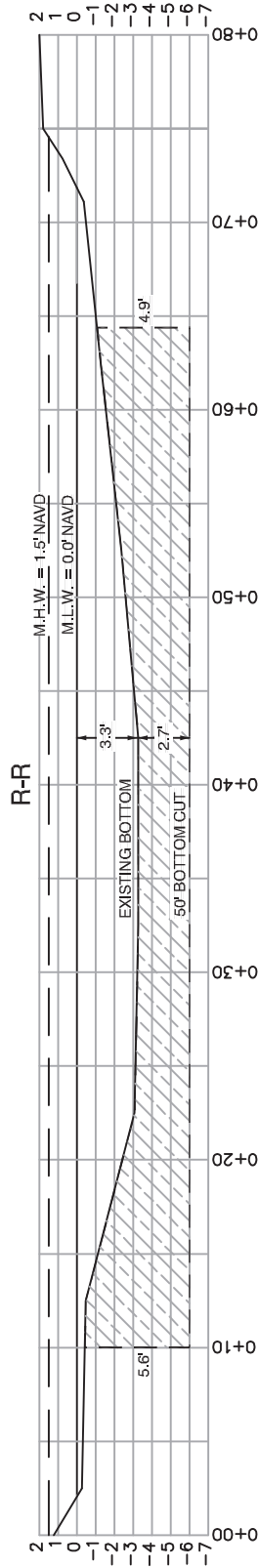
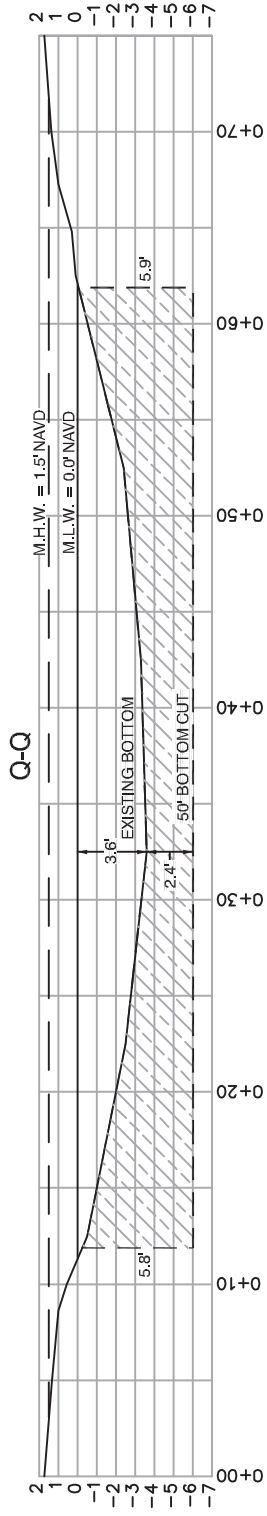
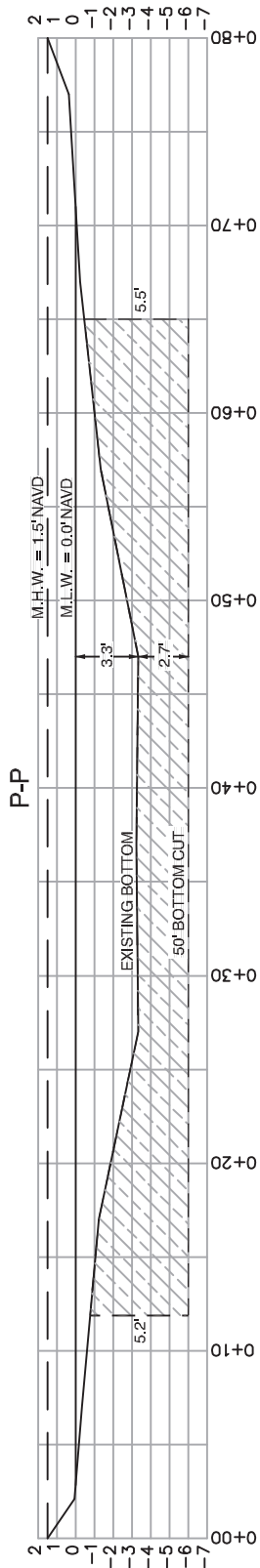
DRAWN BY: ARC	APPROVED BY: JMH
DATE: 01/17/2020	JOB NO: 2019.0181
DRAWING NAME: 2019.0181 PIPELINE XING.DWG	
SHEET NO: 12	OF 45
PROJECTION: LA-S	
GEO. DATUM: NAD83   VERT. DATUM: NAVD88	
GRID UNITS: US SURVEY FEET	
REVISION DESCRIPTION:	

ACCESS ROUTE CROSS SECTIONS

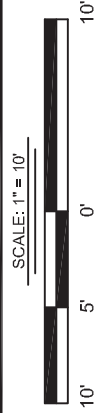
TARGA MIDSTREAM SERVICES LLC  
 PROPOSED MAINTENANCE DREDGING  
 TO RESTORE ACCESS TO  
 EXISTING LPG STORAGE WELLS & BOAT SLIP  
 IN THE VENICE OIL & GAS FIELD  
 PLAQUEMINES PARISH, LOUISIANA

412 South Van Ave, Houma, LA 70363  
 (865)888-1060 - tbs@tbsm.com

REV. NO: 00	REV. DATE: --/--/--	REV. BY: --
-------------	---------------------	-------------



These drawings are to be used exclusively for the acquisition of regulatory permits only.



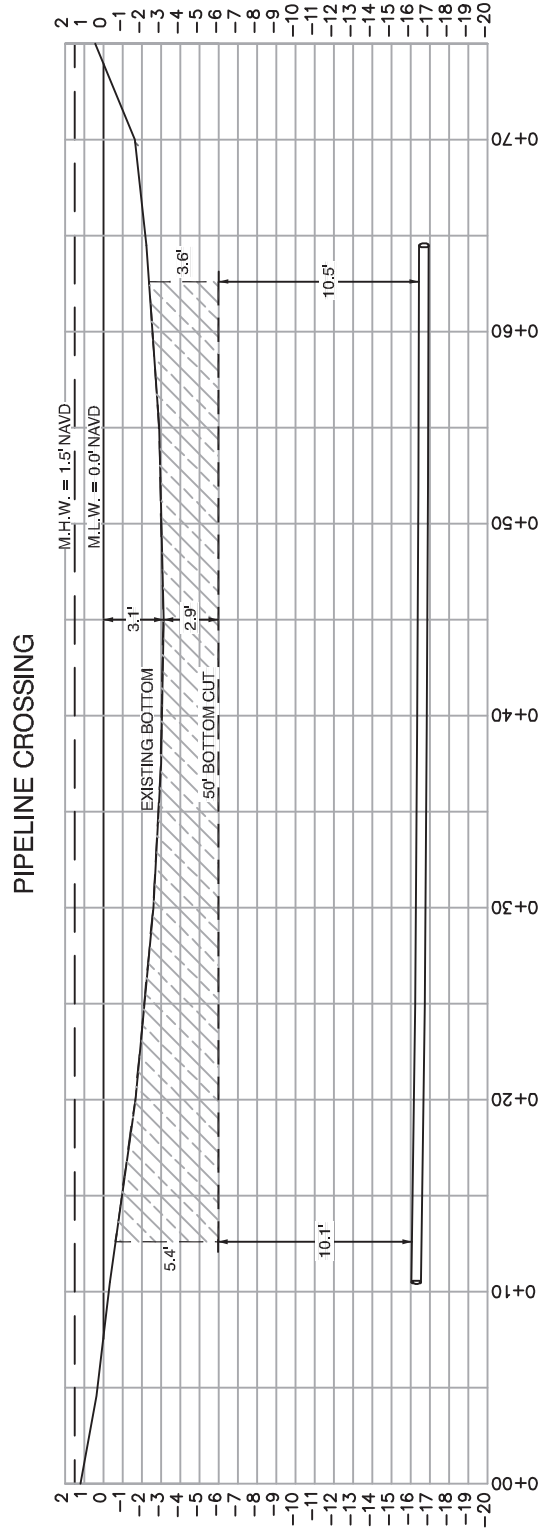
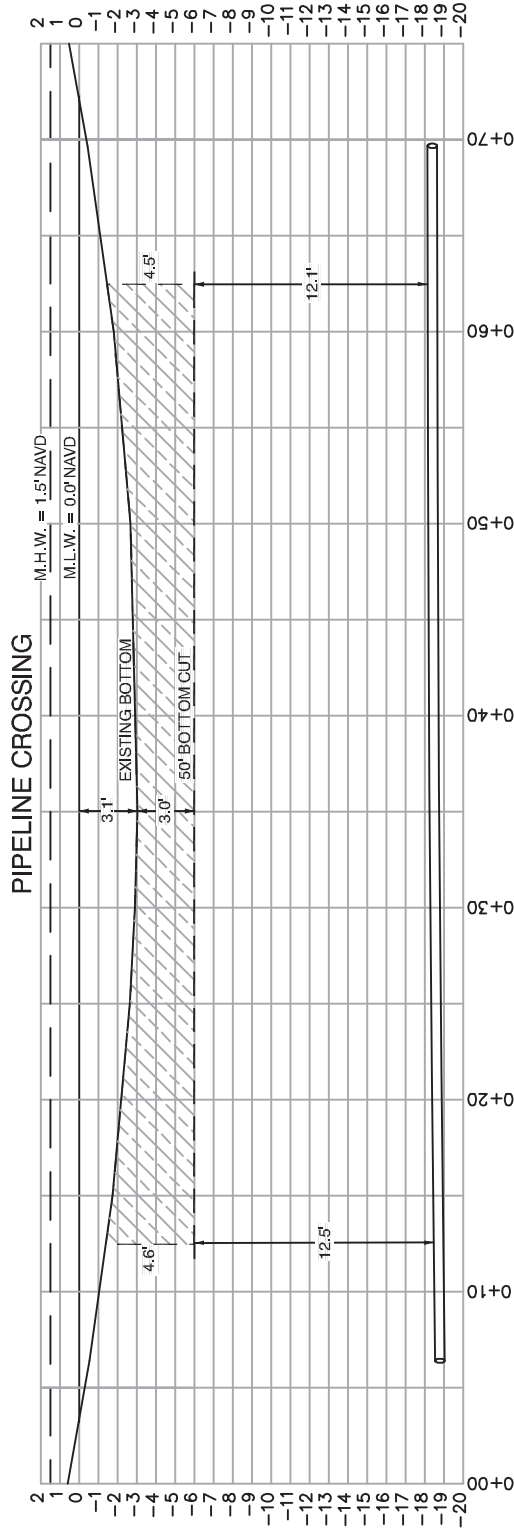
DRAWN BY: ARC	APPROVED BY: JMH
DATE: 01/17/2020	JOB NO: 2019.0181
DRAWING NAME: 2019.0181 PIPELINE.DWG	
SHEET NO: 13	OF 45
PROJECTION: LA-S	
GEO. DATUM: NAD83   VERT. DATUM: NAVD88	
GRID UNITS: US SURVEY FEET	
REVISION DESCRIPTION:	

**ACCESS ROUTE CROSS SECTIONS**

**TARGA MIDSTREAM SERVICES LLC**  
PROPOSED MAINTENANCE DREDGING  
TO RESTORE ACCESS TO  
EXISTING LPG STORAGE WELLS & BOAT SLIP  
IN THE VENICE OIL & GAS FIELD  
PLAQUEMINES PARISH, LOUISIANA

**T. BAKER SMITH**  
A CENTURY OF SOLUTIONS  
412 South Van Ave, Houma, LA 70363  
(985)988-1050 - tbs@tbsm.com

REV. NO: 00	REV. DATE: --/--/--	REV. BY: --
-------------	---------------------	-------------



These drawings are to be used exclusively for the acquisition of regulatory permits only.



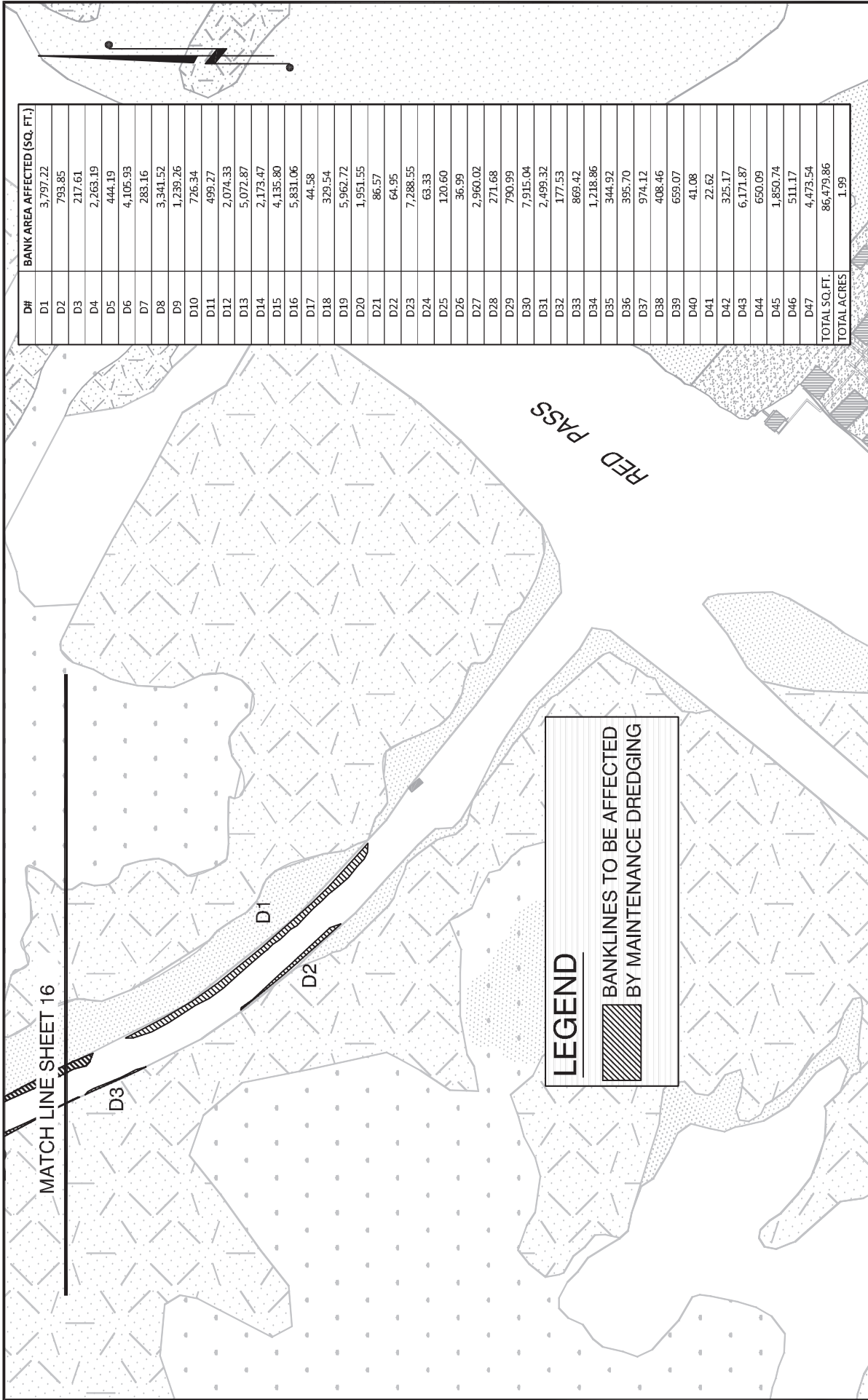
DRAWN BY: ARC	APPROVED BY: JMH
DATE: 01/17/2020	JOB NO: 2019.0181
DRAWING NAME: 2019.0181 PIPELINE.DWG	
SHEET NO: 14	OF 45
PROJECTION: LA-S	
GEO. DATUM: NAD83   VERT. DATUM: NAVD88	
GRID UNITS: US SURVEY FEET	
REVISION DESCRIPTION:	
REV. NO: 00	REV. DATE: --/--
REV. BY: --	

**ACCESS ROUTE CROSS SECTIONS**

**TARGA MIDSTREAM SERVICES LLC**  
 PROPOSED MAINTENANCE DREDGING  
 TO RESTORE ACCESS TO  
 EXISTING LPG STORAGE WELLS & BOAT SLIP  
 IN THE VENICE OIL & GAS FIELD  
 PLAQUEMINES PARISH, LOUISIANA

**T. BAKER SMITH**  
 A CENTURY OF SOLUTIONS  
 412 South Van Ave, Houma, LA 70363  
 (985) 888-1060 - tbs@tbsm.com





DF	BANK AREA AFFECTED (SQ. FT.)
D1	3,797.22
D2	793.85
D3	217.61
D4	2,263.19
D5	444.19
D6	4,105.93
D7	283.16
D8	3,341.52
D9	1,239.26
D10	726.34
D11	499.27
D12	2,074.33
D13	5,072.87
D14	2,173.47
D15	4,135.80
D16	5,831.06
D17	44.58
D18	329.54
D19	5,962.72
D20	1,951.55
D21	86.57
D22	64.95
D23	7,288.55
D24	63.33
D25	120.60
D26	36.99
D27	2,960.02
D28	271.68
D29	790.99
D30	7,915.04
D31	2,499.32
D32	177.53
D33	869.42
D34	1,218.86
D35	344.92
D36	395.70
D37	974.12
D38	408.46
D39	659.07
D40	41.08
D41	22.62
D42	325.17
D43	6,171.87
D44	650.09
D45	1,850.74
D46	511.17
D47	4,473.54
TOTAL SQ. FT.	86,479.86
TOTAL ACRES	1.99

**LEGEND**  
 BANKLINES TO BE AFFECTED BY MAINTENANCE DREDGING

**BANKLINE IMPACTS FROM DREDGING**  
**TARGA MIDSTREAM SERVICES LLC**  
 PROPOSED MAINTENANCE DREDGING  
 TO RESTORE ACCESS TO  
 EXISTING LPG WELLS AND BOAT SLIP  
 IN THE VENICE OIL & GAS FIELD  
 PLAQUEMINES PARISH, LOUISIANA

DRAWN BY:	ARC	APPROVED BY:	JMH
DATE:	01/17/2020	JOB NO:	2019.0181
DRAWING NAME:	2019.0181 P3-P4.DWG		
SHEET NO:	15	OF	45
PROJECTION:	LA-S		
GEO. DATUM:	NAD83		
VERT. DATUM:	NAVD88		
GRID UNITS:	US SURVEY FEET		
REVISION DESCRIPTION:	_		

SCALE: 1" = 200'



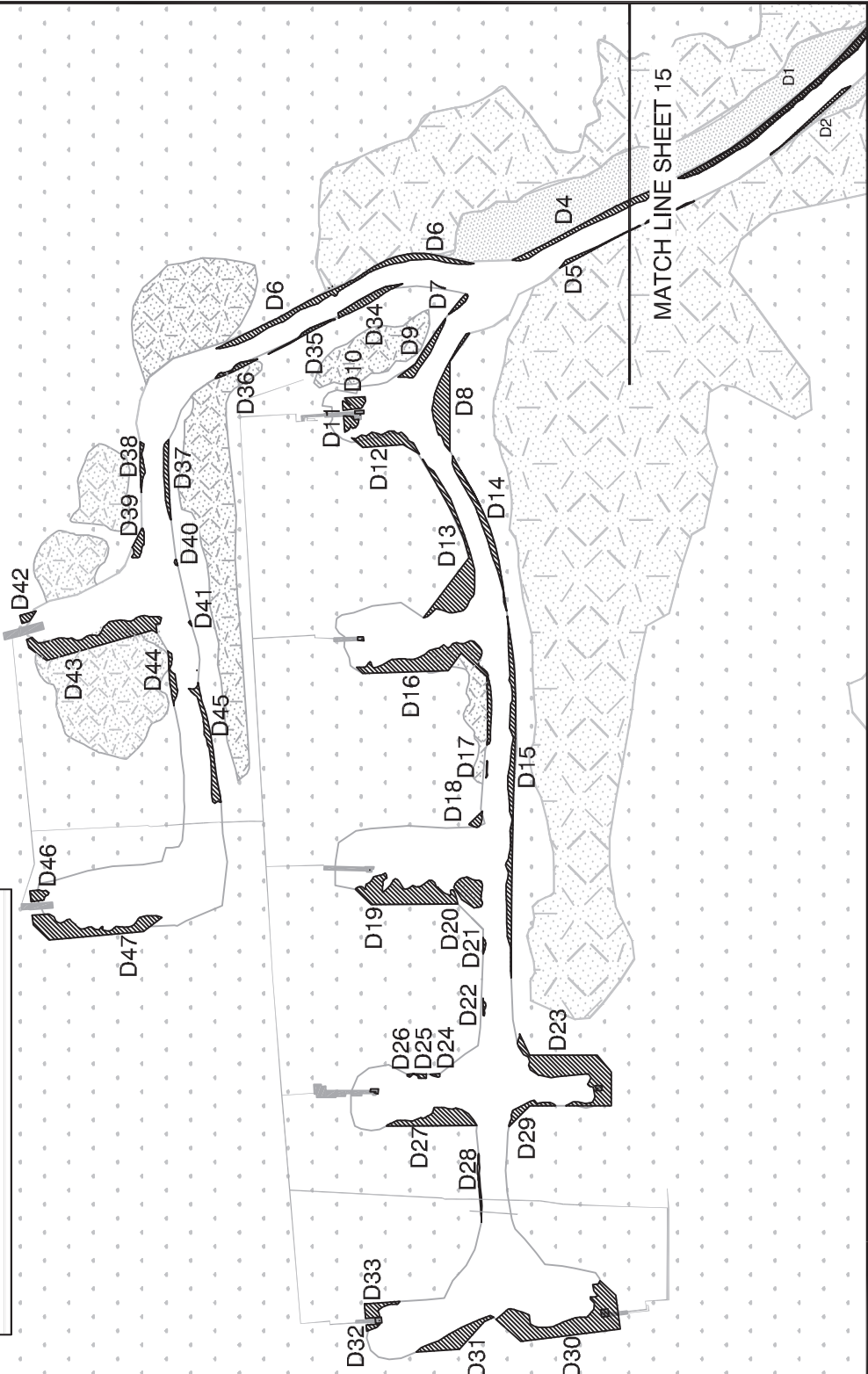
**TBS**  
**T. BAKER SMITH**  
 A CENTURY OF SOLUTIONS  
 412 South Van Ave. Houma, LA 70363  
 (866)888-1060 - tbs@tbs.com


REV. NO:	00	REV. DATE:	--/--	REV. BY:	--
----------	----	------------	-------	----------	----

D#	BANK AREA AFFECTED (SQ. FT.)
D1	3,797.22
D2	793.85
D3	217.61
D4	2,263.19
D5	444.19
D6	4,105.93
D7	283.16
D8	3,341.52
D9	1,239.26
D10	726.34
D11	499.27
D12	2,074.33
D13	5,072.87
D14	2,173.47
D15	4,135.80
D16	5,831.06
D17	44.58
D18	329.54
D19	5,962.72
D20	1,951.55
D21	86.57
D22	64.95
D23	7,288.55
D24	63.33
D25	120.60
D26	36.99
D27	2,960.02
D28	271.68
D29	790.99
D30	7,915.04
D31	2,499.32
D32	177.53
D33	869.42
D34	1,218.86
D35	344.92
D36	395.70
D37	974.12
D38	408.46
D39	659.07
D40	41.08
D41	22.62
D42	325.17
D43	6,171.87
D44	650.09
D45	1,850.74
D46	511.17
D47	4,473.54
TOTAL SQ.FT.	86,479.86
TOTAL ACRES	1.99

**LEGEND**

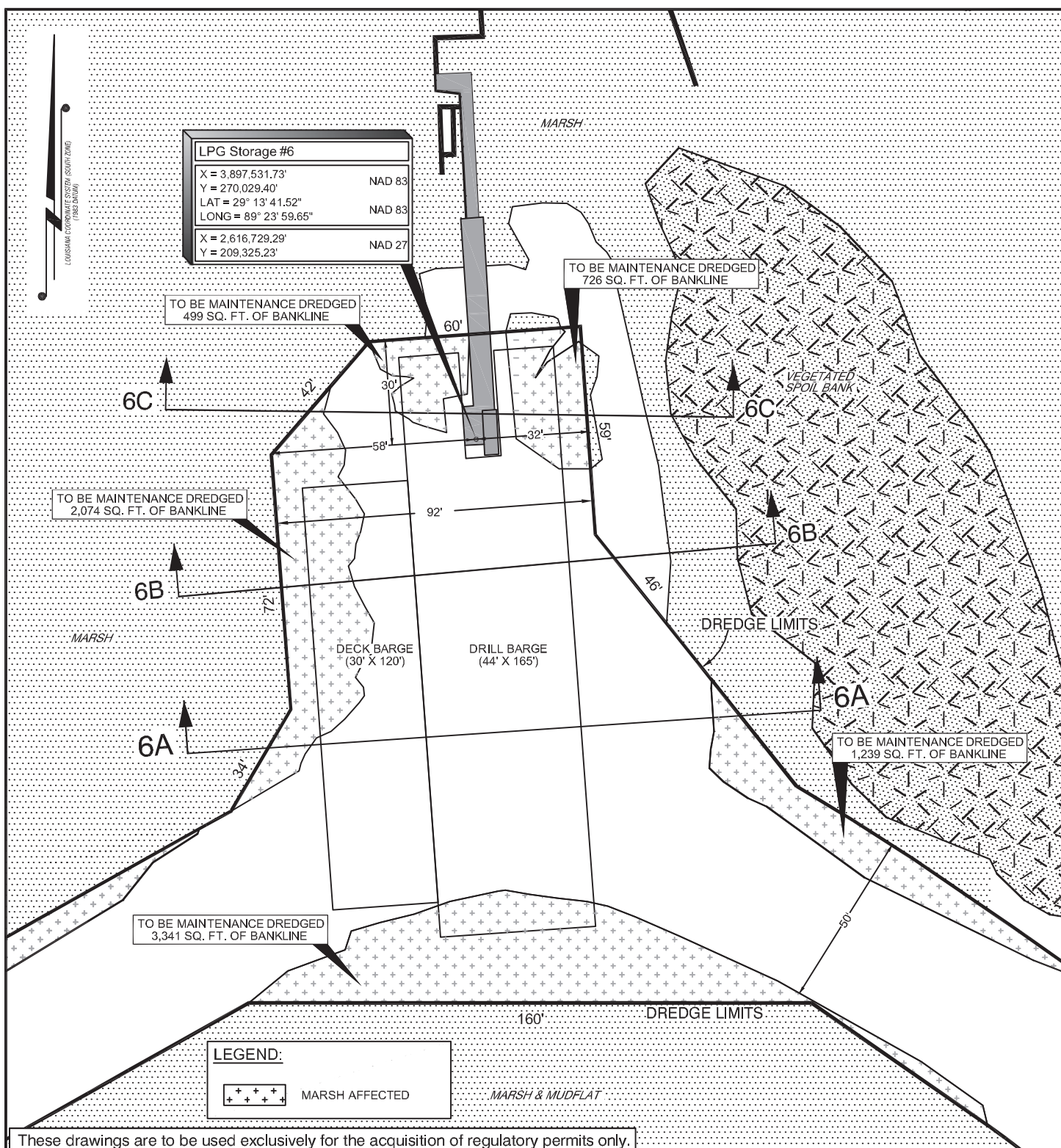
 BANKLINES TO BE AFFECTED BY MAINTENANCE DREDGING



<p><b>BANKLINE IMPACTS FROM DREDGING</b></p> <p><b>TARGA MIDSTREAM SERVICES LLC</b>          PROPOSED MAINTENANCE DREDGING          TO RESTORE ACCESS TO          EXISTING LPG WELLS AND BOAT SLIP          IN THE VENICE OIL &amp; GAS FIELD          PLAQUEMINES PARISH, LOUISIANA</p>	
<p>DRAWN BY: ARC</p> <p>DATE: 01/17/2020</p> <p>DRAWING NAME: JMHS BANK IMPACTS.DWG</p> <p>SHEET NO: 16 OF 45</p> <p>PROJECTION: LA-S          GEO. DATUM: NAD83   VERT. DATUM: NAVD88          GRID UNITS: US SURVEY FEET</p>	<p>APPROVED BY: JMHS</p> <p>JOB NO: 2019.0181</p> <p>REVISION DESCRIPTION:</p>
<p>SCALE: 1" = 300'</p> <p></p>	<p><b>TBS</b>  <b>T. BAKER SMITH</b>          A CENTURY OF SOLUTIONS          412 South Van Ave, Houma, LA 70363          (985)988-1060 - tbs@tbsmith.com</p>
<p>REV. NO: 00</p> <p>REV. DATE: --/--</p>	<p>REV. BY: --</p>



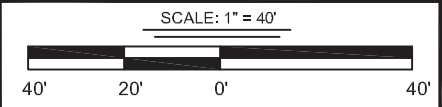
1/22/2020 - P:\Y-2019\2019.01181\DWG\PERMIT DRAWINGS\4TH REVISION PERMIT\2019.0181\_SLP.6.DWG



These drawings are to be used exclusively for the acquisition of regulatory permits only.

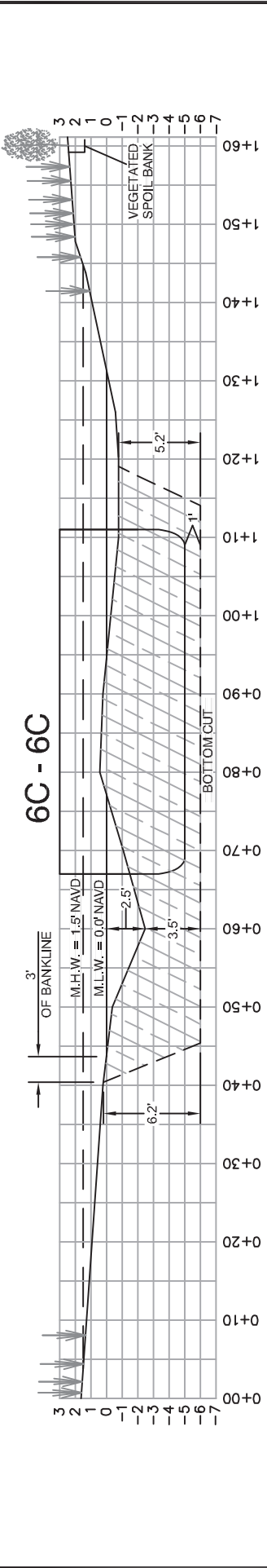
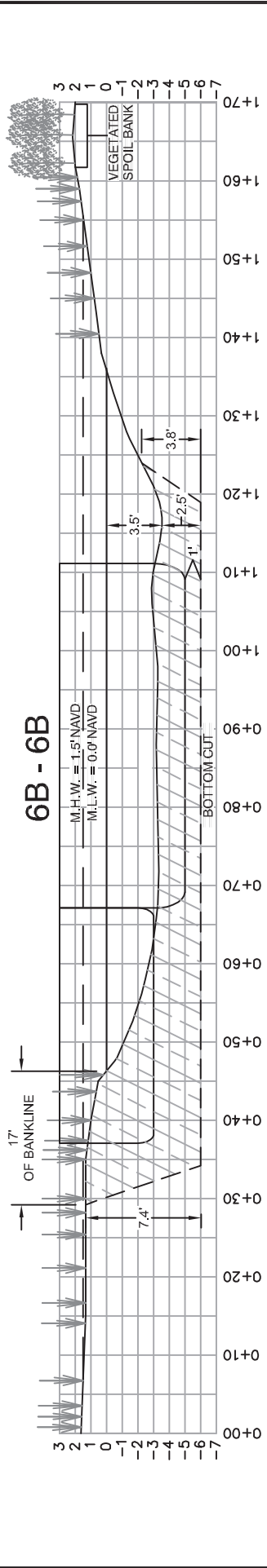
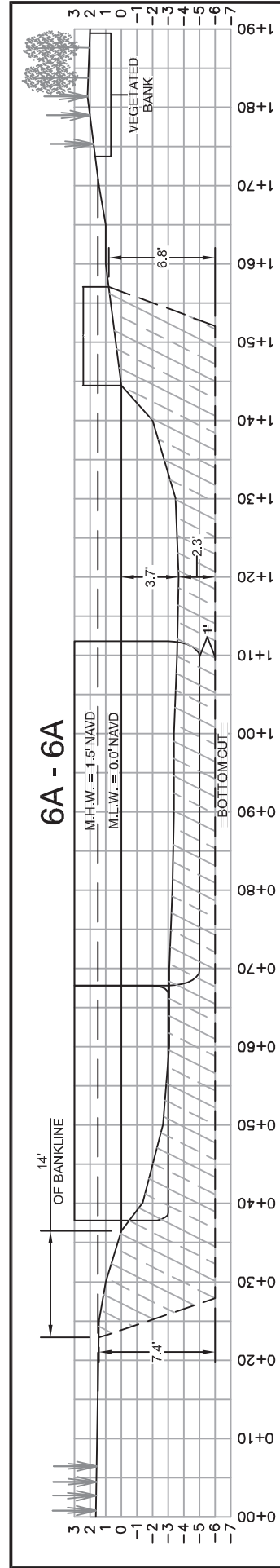
DRAWN BY:	ARC	APPROVED BY:	JMH
DATE:	01/17/2020	JOB NO.:	2019.0181
DRAWING NAME:	2019.0181 SLP.6.DWG		
SHEET NO.:	17	OF	45
PROJECTION:	LA-S		
GEO. DATUM:	NAD83   VERT. DATUM: NAVD88		
GRID UNITS:	US SURVEY FEET		

**WELL SLIP PLAN VIEW**  
**TARGA MIDSTREAM SERVICES LLC**  
 PROPOSED MAINTENANCE DREDGING  
 TO RESTORE ACCESS TO  
 EXISTING LPG STORAGE WELLS & BOAT SLIP  
 IN THE VENICE OIL & GAS FIELD  
 PLAQUEMINES PARISH, LOUISIANA



**TBS** **T. BAKER SMITH**  
 A CENTURY OF SOLUTIONS  
 412 South Van Ave, Houma, LA 70363  
 (985)868-1050 - tbsmith.com

REV. NO.:	00	REV. DATE:	--/--	REV. BY:	--
REVISION DESCRIPTION:					
-					



VERTICAL

SCALE IN FEET



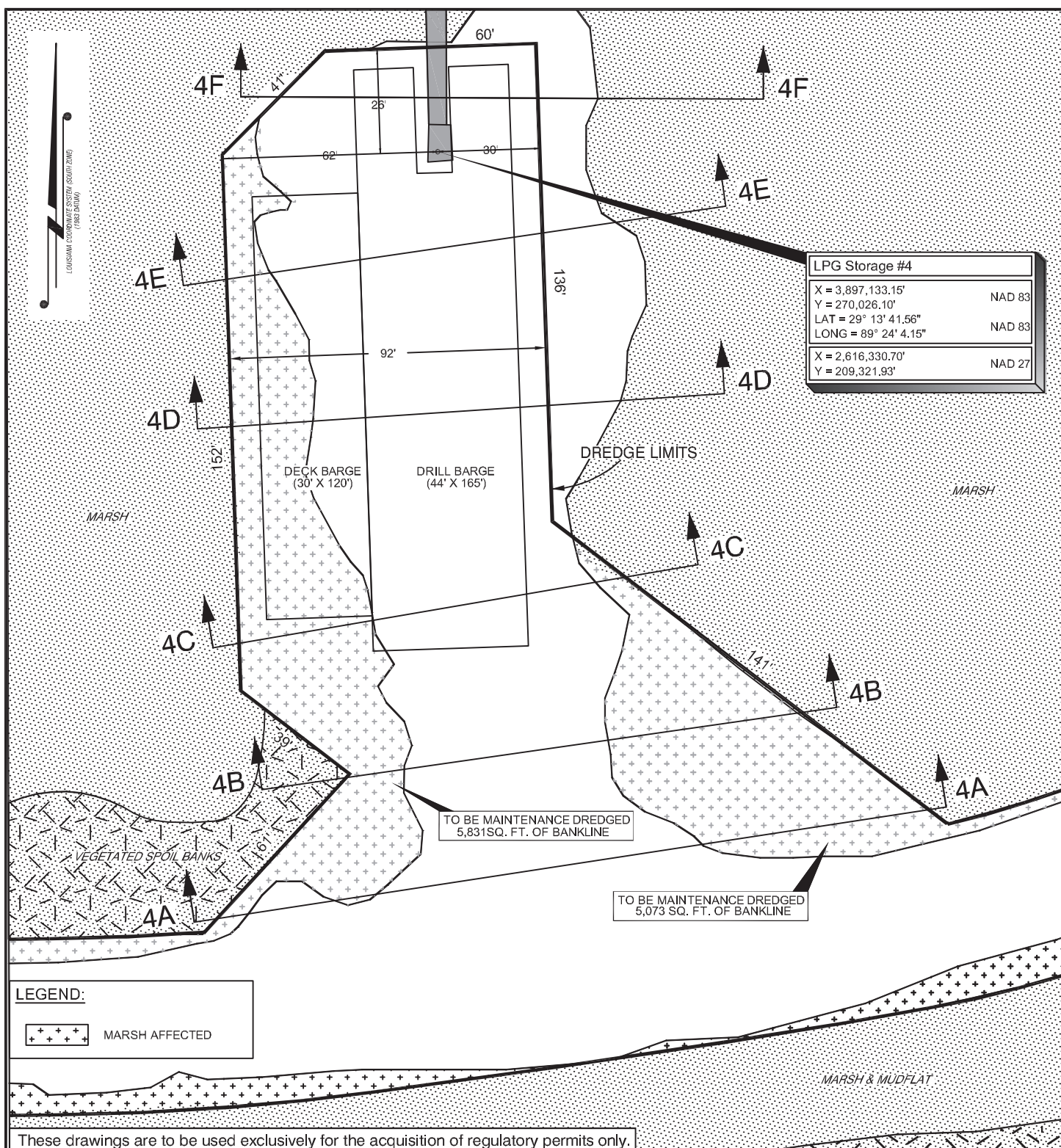
HORIZONTAL

SCALE IN FEET



<p>These drawings are to be used exclusively for the acquisition of regulatory permits only.</p>		<p>WELL SLIP CROSS SECTIONS</p>	
<p><b>T. BAKER SMITH</b> A CENTURY OF SOLUTIONS 412 South Van Ave, Houma, LA 70363 (985) 988-1060 - tbsmith.com</p>		<p>TARGA MIDSTREAM SERVICES LLC PROPOSED MAINTENANCE DREDGING TO RESTORE ACCESS TO EXISTING LPG STORAGE WELLS &amp; BOAT SLIP IN THE VENICE OIL &amp; GAS FIELD PLAQUEMINES PARISH, LOUISIANA</p>	
<p>REV. NO: 00</p>	<p>REV. DATE: --/--</p>	<p>REV. BY: --</p>	<p>REVISION DESCRIPTION:</p>
<p>DRAWN BY: ARC</p>	<p>APPROVED BY: JMH</p>	<p>SHEET NO: 18</p>	<p>OF 45</p>
<p>DATE: 01/17/2020</p>	<p>JOB NO: 2019.0181</p>	<p>PROJECTION: LA-S</p>	<p>GEO. DATUM: NAD83   VERT. DATUM: NAVD88</p>
<p>DRAWING NAME: 2019.0181 SLIP 6.DWG</p>	<p>GRID UNITS: US SURVEY FEET</p>	<p>REVISION DESCRIPTION:</p>	<p>REVISION DESCRIPTION:</p>

1/22/2020 - P:\Y-2019\2019.0181\DWG\PERMIT DRAWINGS\4TH REVISION PERMIT\2019.0181.SLIP.4.DWG

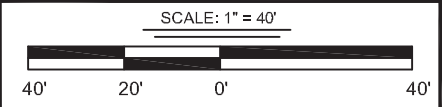


**LEGEND:**  
 MARSH AFFECTED

These drawings are to be used exclusively for the acquisition of regulatory permits only.

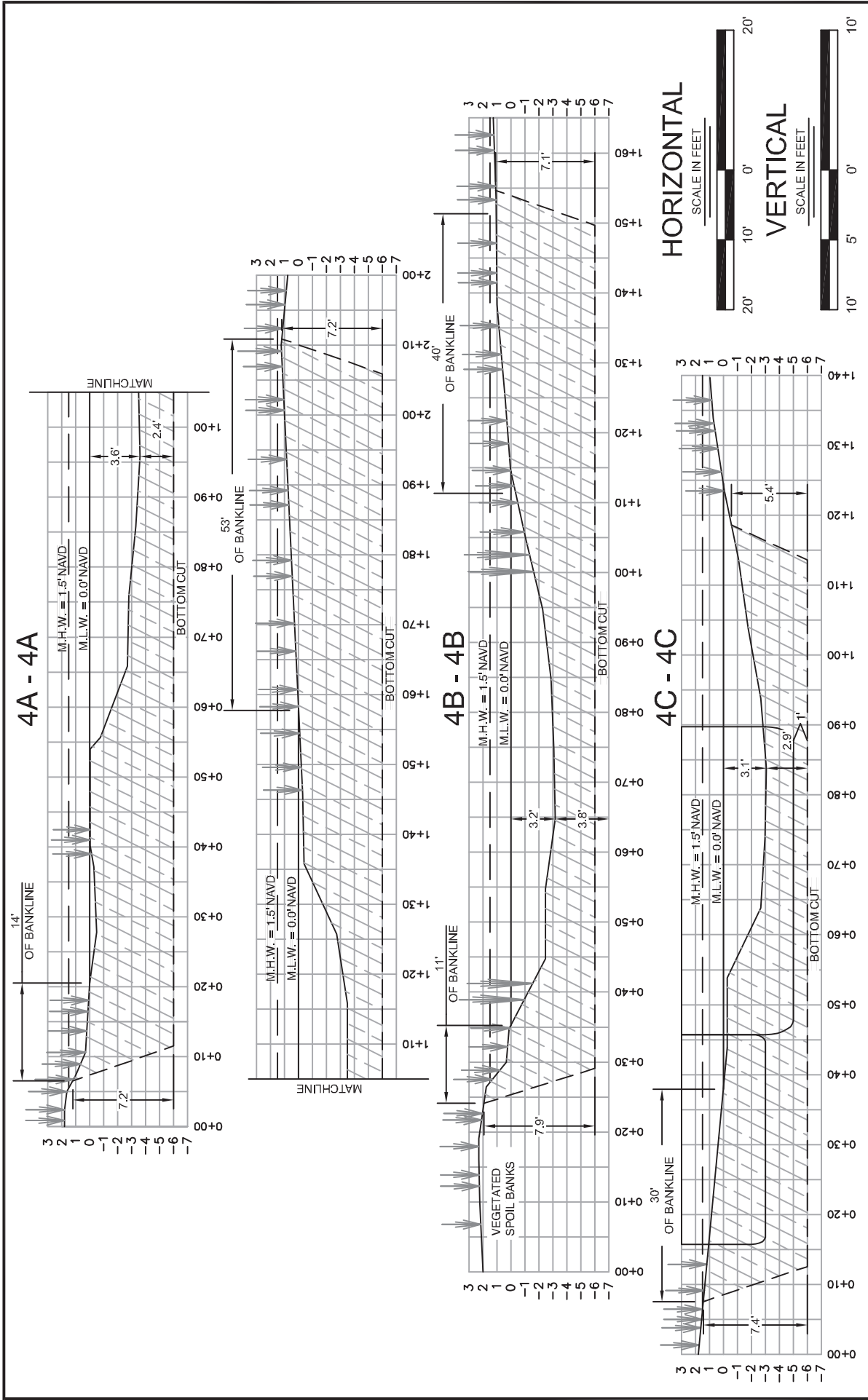
DRAWN BY:	ARC	APPROVED BY:	JMH
DATE:	01/17/2020	JOB NO:	2019.0181
DRAWING NAME:	2019.0181 SLIP 4.DWG		
SHEET NO:	19	OF	45
PROJECTION:	LA-S		
GEO. DATUM:	NAD83   VERT. DATUM: NAVD88		
GRID UNITS:	US SURVEY FEET		

**WELL SLIP PLAN VIEW**  
**TARGA MIDSTREAM SERVICES LLC**  
 PROPOSED MAINTENANCE DREDGING  
 TO RESTORE ACCESS TO  
 EXISTING LPG STORAGE WELLS & BOAT SLIP  
 IN THE VENICE OIL & GAS FIELD  
 PLAQUEMINES PARISH, LOUISIANA



**T. BAKER SMITH**  
 A CENTURY OF SOLUTIONS  
 412 South Van Ave, Houma, LA 70363  
 (985)868-1050 - tbsmith.com

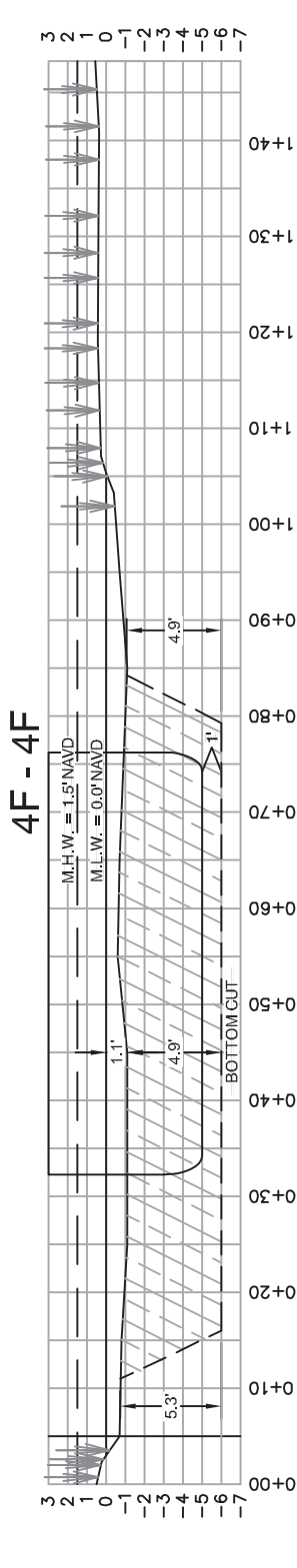
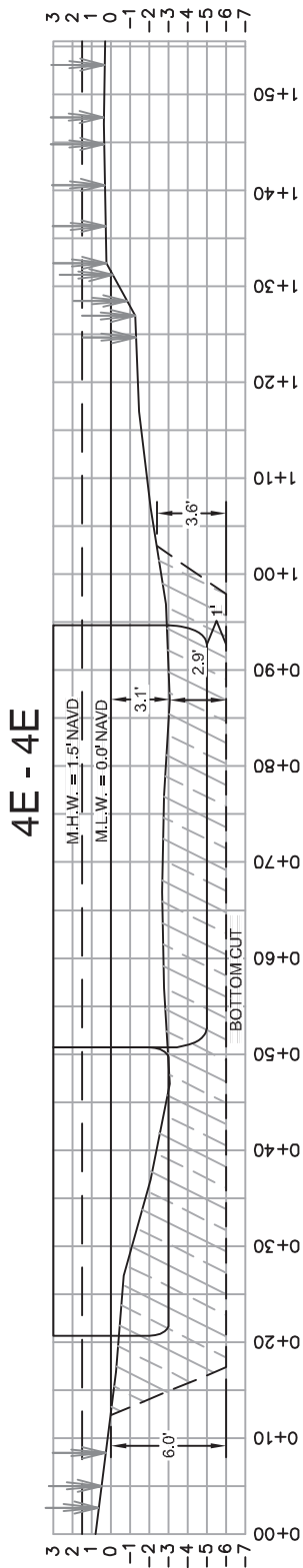
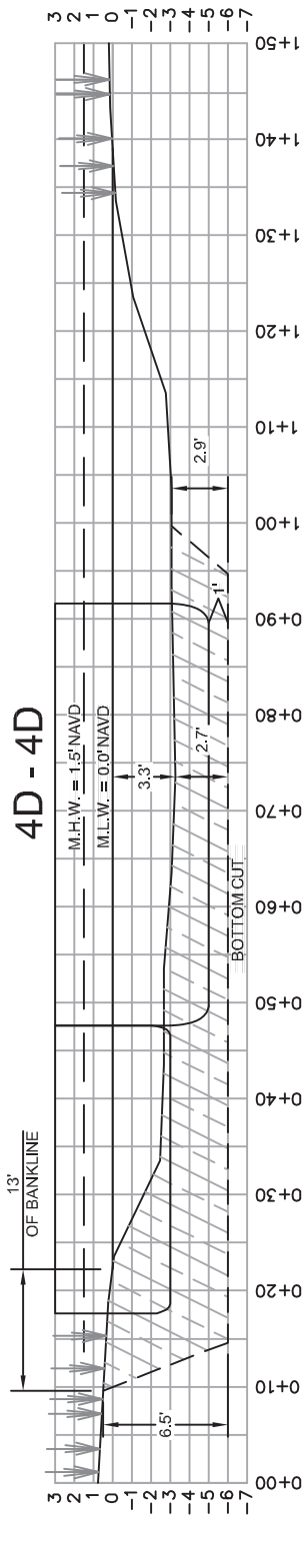
REV. NO:	00	REV. DATE:	--/--	REV. BY:	--
REVISION DESCRIPTION:					
-					



These drawings are to be used exclusively for the acquisition of regulatory permits only.		DRAWN BY: ARC    APPROVED BY: JMH	
DATE: 01/17/2020		JOB NO: 2019.0181	
DRAWING NAME:		2019.0181 SLP 4.DWG	
SHEET NO: 20		OF 45	
PROJECTION: LA-S GEO. DATUM: NAD83   VERT. DATUM: NAVD88 GRID UNITS: US SURVEY FEET			
REVISION DESCRIPTION:			
REV. NO: 00	REV. DATE: --/--	REV. BY: --	REV. BY: --

**WELL SLIP CROSS SECTIONS**  
**TARGA MIDSTREAM SERVICES LLC**  
 PROPOSED MAINTENANCE DREDGING  
 TO RESTORE ACCESS TO  
 EXISTING LPG STORAGE WELLS & BOAT SLIP  
 IN THE VENICE OIL & GAS FIELD  
 PLAQUEMINES PARISH, LOUISIANA





**HORIZONTAL**  
SCALE IN FEET



**VERTICAL**  
SCALE IN FEET



These drawings are to be used exclusively for the acquisition of regulatory permits only.

**T. BAKER SMITH**  
A CENTURY OF SOLUTIONS  
412 South Van Ave, Houma, LA 70363  
(985) 888-1060 - tbs@tbsm.com

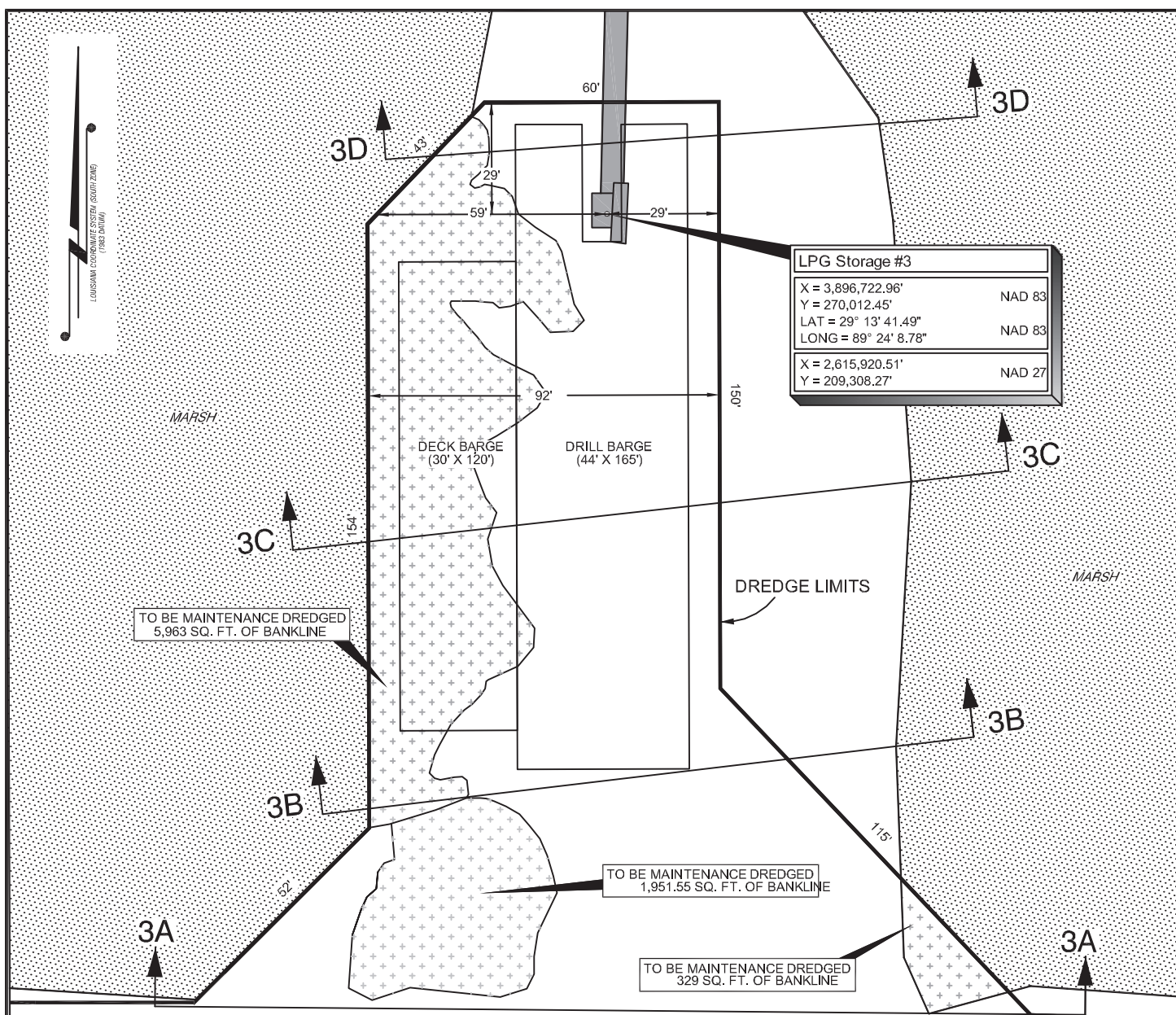
REV. NO:	00	REV. DATE:	--/--	REV. BY:	--
----------	----	------------	-------	----------	----

DRAWN BY:	ARC	APPROVED BY:	JMH
DATE:	01/17/2020	JOB NO:	2019.0181
DRAWING NAME:	2019.0181 SLP 4.DWG		
SHEET NO:	21	OF	45
PROJECTION:	LA-S		
GEO. DATUM:	NAD83   VERT. DATUM: NAVD88		
GRID UNITS:	US SURVEY FEET		
REVISION DESCRIPTION:	_		

**WELL SLIP CROSS SECTIONS**

**TARGA MIDSTREAM SERVICES LLC**  
PROPOSED MAINTENANCE DREDGING  
TO RESTORE ACCESS TO  
EXISTING LPG STORAGE WELLS & BOAT SLIP  
IN THE VENICE OIL & GAS FIELD  
PLAQUEMINES PARISH, LOUISIANA

1/22/2020 - P:\Y-2019\2019.0181\DWG\PERMIT DRAWINGS\4TH REVISION PERMIT\2019.0181 SLIP 3.DWG

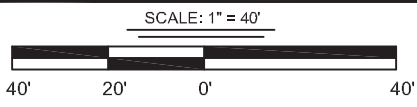


**LEGEND:**  
 MARSH AFFECTED

These drawings are to be used exclusively for the acquisition of regulatory permits only.

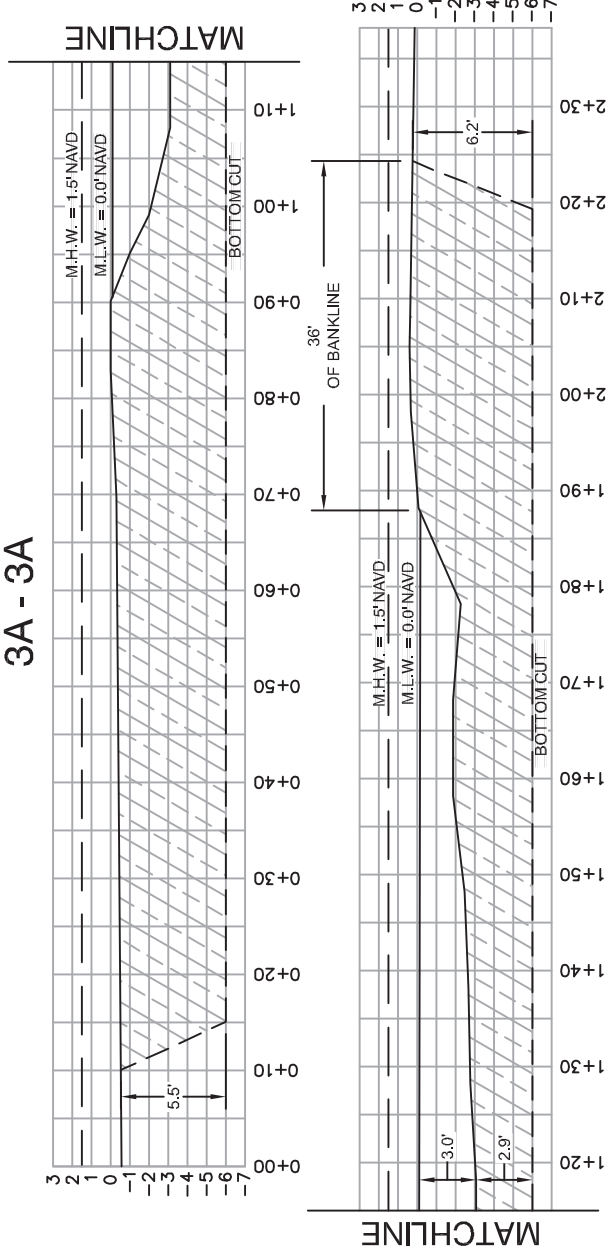
DRAWN BY:	ARC	APPROVED BY:	JMH
DATE:	01/17/2020	JOB NO:	2019.0181
DRAWING NAME:	2019.0181 SLIP 3.DWG		
SHEET NO:	22	OF	45
PROJECTION:	LA-S		
GEO. DATUM:	NAD83   VERT. DATUM: NAVD88		
GRID UNITS:	US SURVEY FEET		

**WELL SLIP PLAN VIEW**  
**TARGA MIDSTREAM SERVICES LLC**  
 PROPOSED MAINTENANCE DREDGING  
 TO RESTORE ACCESS TO  
 EXISTING LPG STORAGE WELLS & BOAT SLIP  
 IN THE VENICE OIL & GAS FIELD  
 PLAQUEMINES PARISH, LOUISIANA

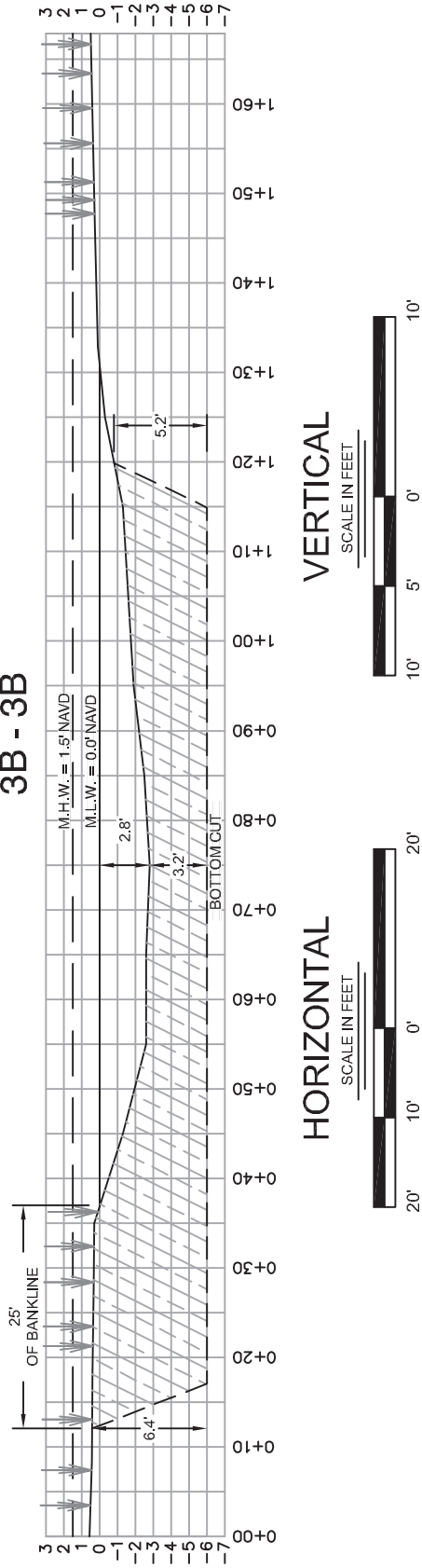


REV. NO:	00	REV. DATE:	--/--	REV. BY:	--
REVISION DESCRIPTION: -					

# 3A - 3A



# 3B - 3B



## WELL SLIP CROSS SECTIONS

**TARGA MIDSTREAM SERVICES LLC**  
 PROPOSED MAINTENANCE DREDGING  
 TO RESTORE ACCESS TO  
 EXISTING LPG STORAGE WELLS & BOAT SLIP  
 IN THE VENICE OIL & GAS FIELD  
 PLAQUEMINES PARISH, LOUISIANA

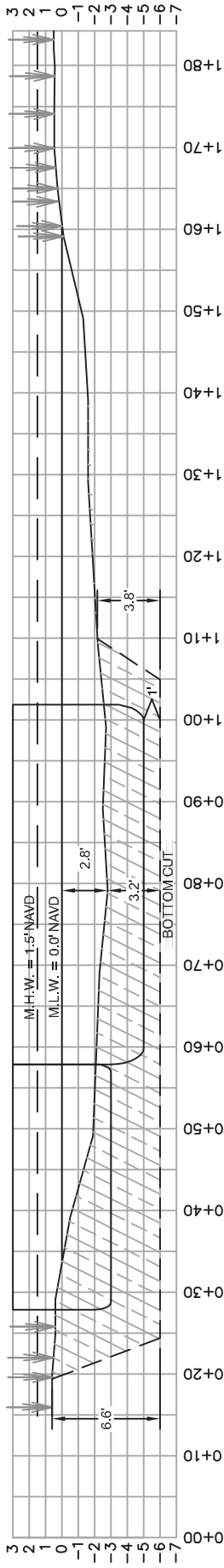
DRAWN BY: ARC	APPROVED BY: JMH
DATE: 01/17/2020	JOB NO: 2019.0181
DRAWING NAME: 2019.0181 SLIP 3.DWG	
SHEET NO: 23	OF 45
PROJECTION: LA-S	
GEO. DATUM: NAD83   VERT. DATUM: NAVD88	
GRID UNITS: US SURVEY FEET	
REVISION DESCRIPTION:	

These drawings are to be used exclusively for the acquisition of regulatory permits only.

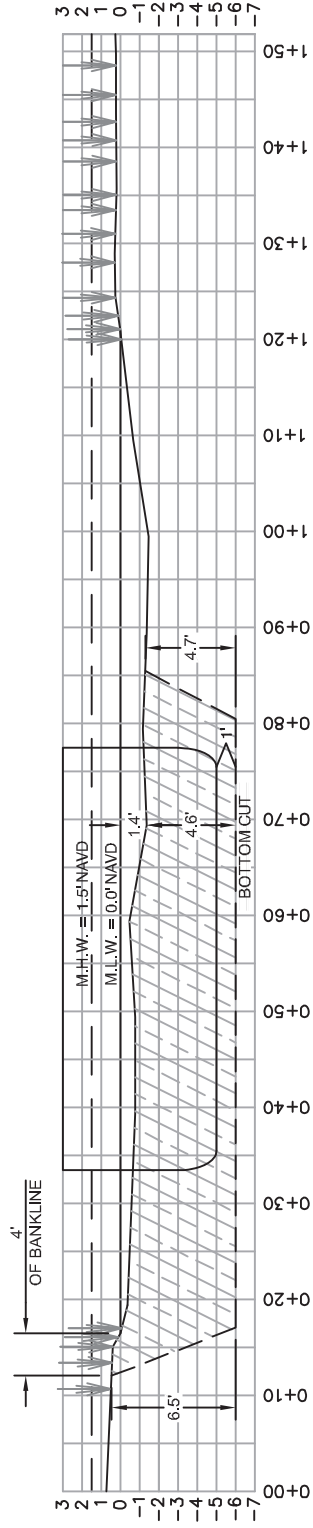
**TBS**  
**T. BAKER SMITH**  
 A CENTURY OF SOLUTIONS  
 412 South Van Ave. - Houma, LA 70363  
 (866)888-1060 - tbs@tbsmith.com

REV. NO: 00	REV. DATE: --/--	REV. BY: --
-------------	------------------	-------------

### 3C - 3C



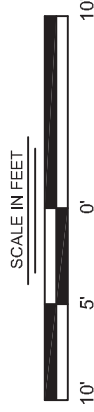
### 3D - 3D



HORIZONTAL  
SCALE IN FEET



VERTICAL  
SCALE IN FEET



These drawings are to be used exclusively for the acquisition of regulatory permits only.

**TBS**  
**T. BAKER SMITH**  
 A CENTURY OF SOLUTIONS  
 412 South Van Ave, Houma, LA 70363  
 (865) 888-1060 - tbs@tbsmith.com

REV. NO:	00	REV. DATE:	--/--	REV. BY:	--
----------	----	------------	-------	----------	----

DRAWN BY:	ARC	APPROVED BY:	JMH
DATE:	01/17/2020	JOB NO:	2019.0181
DRAWING NAME:	2019.0181 SLIP 3.DWG		
SHEET NO:	24	OF	45
PROJECTION:	LA-S		
GEO. DATUM:	NAD83   VERT. DATUM: NAVD88		
GRID UNITS:	US SURVEY FEET		
REVISION DESCRIPTION:	_		

### WELL SLIP CROSS SECTIONS

**TARGA MIDSTREAM SERVICES LLC**

PROPOSED MAINTENANCE DREDGING

TO RESTORE ACCESS TO

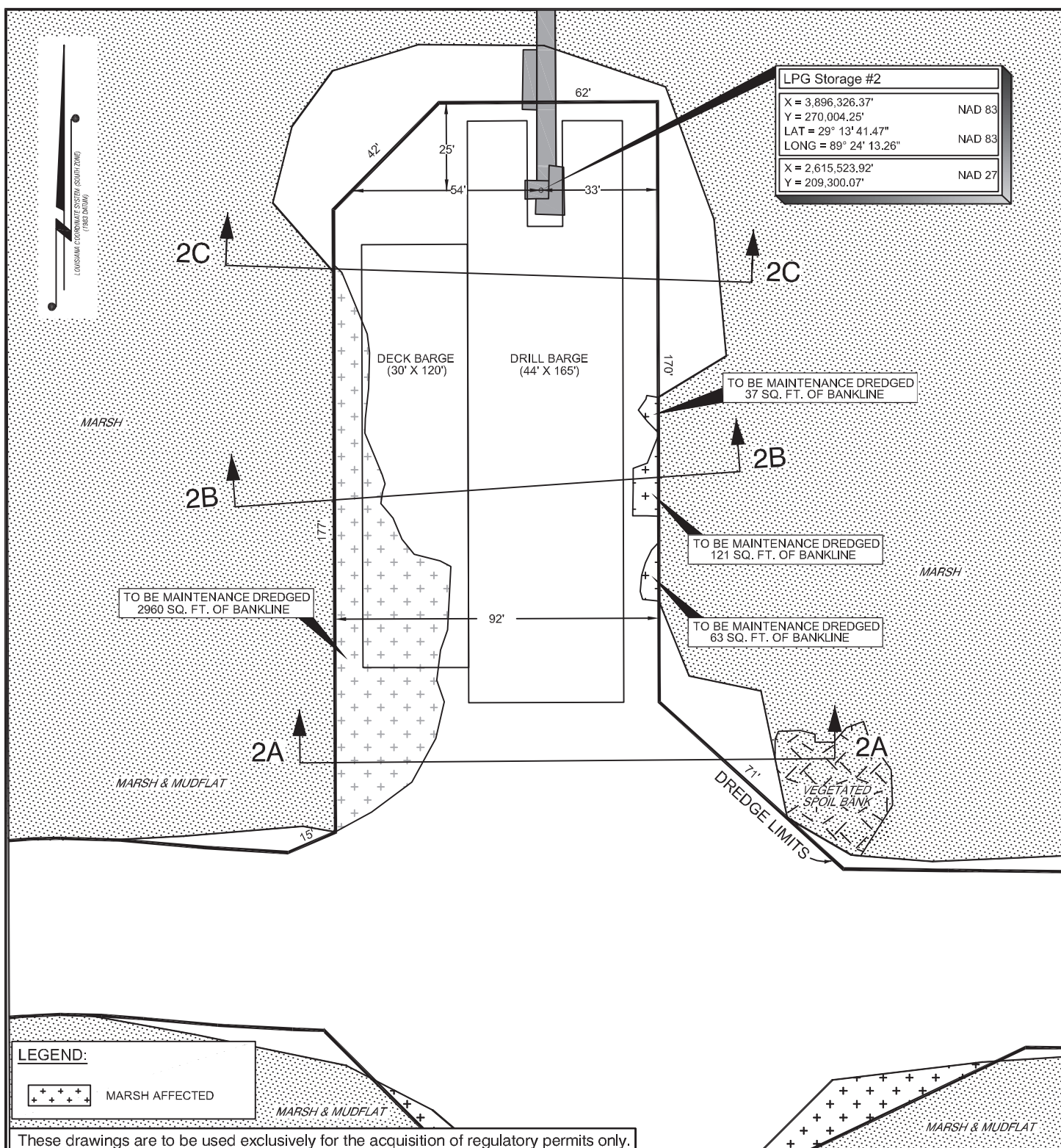
EXISTING LPG STORAGE WELLS & BOAT SLIP

IN THE VENICE OIL & GAS FIELD

PLAQUEMINES PARISH, LOUISIANA



1/22/2020 - P:\Y-2019\2019.0181\DWG\PERMIT DRAWINGS\4TH REVISION PERMIT\2019.0181 SLIP 2.DWG

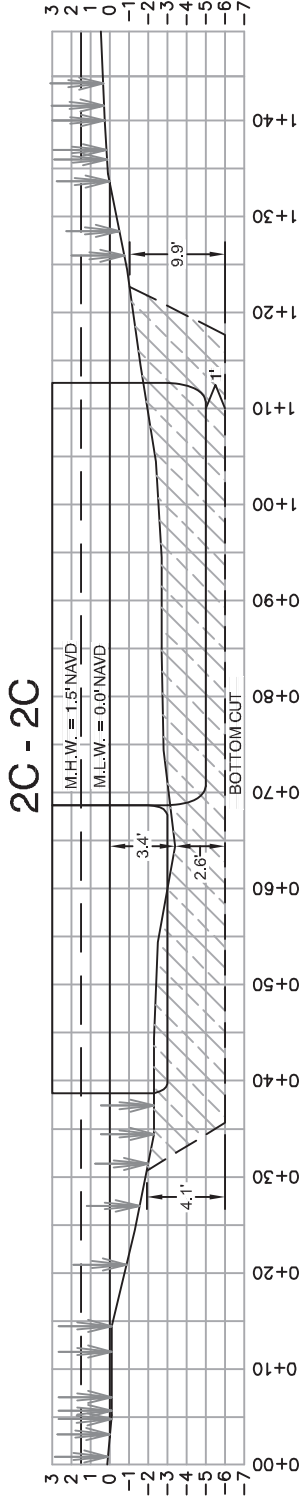
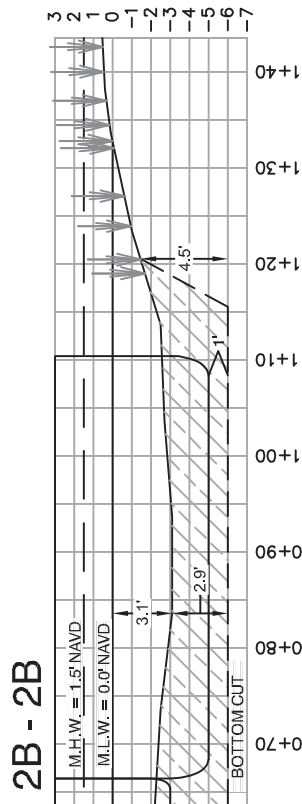
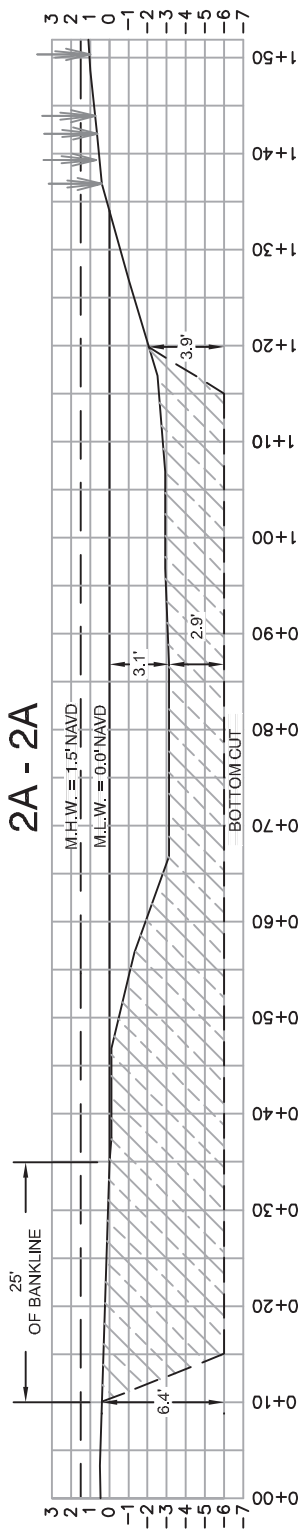


**LEGEND:**

	MARSH AFFECTED
	MARSH & MUDFLAT

These drawings are to be used exclusively for the acquisition of regulatory permits only.

DRAWN BY: ARC		APPROVED BY: JMH		<b>WELL SLIP PLAN VIEW</b> <b>TARGA MIDSTREAM SERVICES LLC</b> PROPOSED MAINTENANCE DREDGING TO RESTORE ACCESS TO EXISTING LPG STORAGE WELLS & BOAT SLIP IN THE VENICE OIL & GAS FIELD PLAQUEMINES PARISH, LOUISIANA	
DATE: 01/17/2020		JOB NO: 2019.0181			
DRAWING NAME: 2019.0181 SLIP 2.DWG					
SHEET NO: 25		OF 45			
PROJECTION: LA-S GEO. DATUM: NAD83   VERT. DATUM: NAVD88 GRID UNITS: US SURVEY FEET				REV. NO: 00   REV. DATE: --/--   REV. BY: --	
SCALE: 1" = 40' 				REVISION DESCRIPTION: -	
<b>T. BAKER SMITH</b> A CENTURY OF SOLUTIONS 412 South Van Ave, Houma, LA 70363 (985)868-1050 - tbsmith.com					



VERTICAL

SCALE IN FEET



HORIZONTAL

SCALE IN FEET



WELL SLIP CROSS SECTIONS

TARGA MIDSTREAM SERVICES LLC  
 PROPOSED MAINTENANCE DREDGING  
 TO RESTORE ACCESS TO  
 EXISTING LPG STORAGE WELLS & BOAT SLIP  
 IN THE VENICE OIL & GAS FIELD  
 PLAQUEMINES PARISH, LOUISIANA

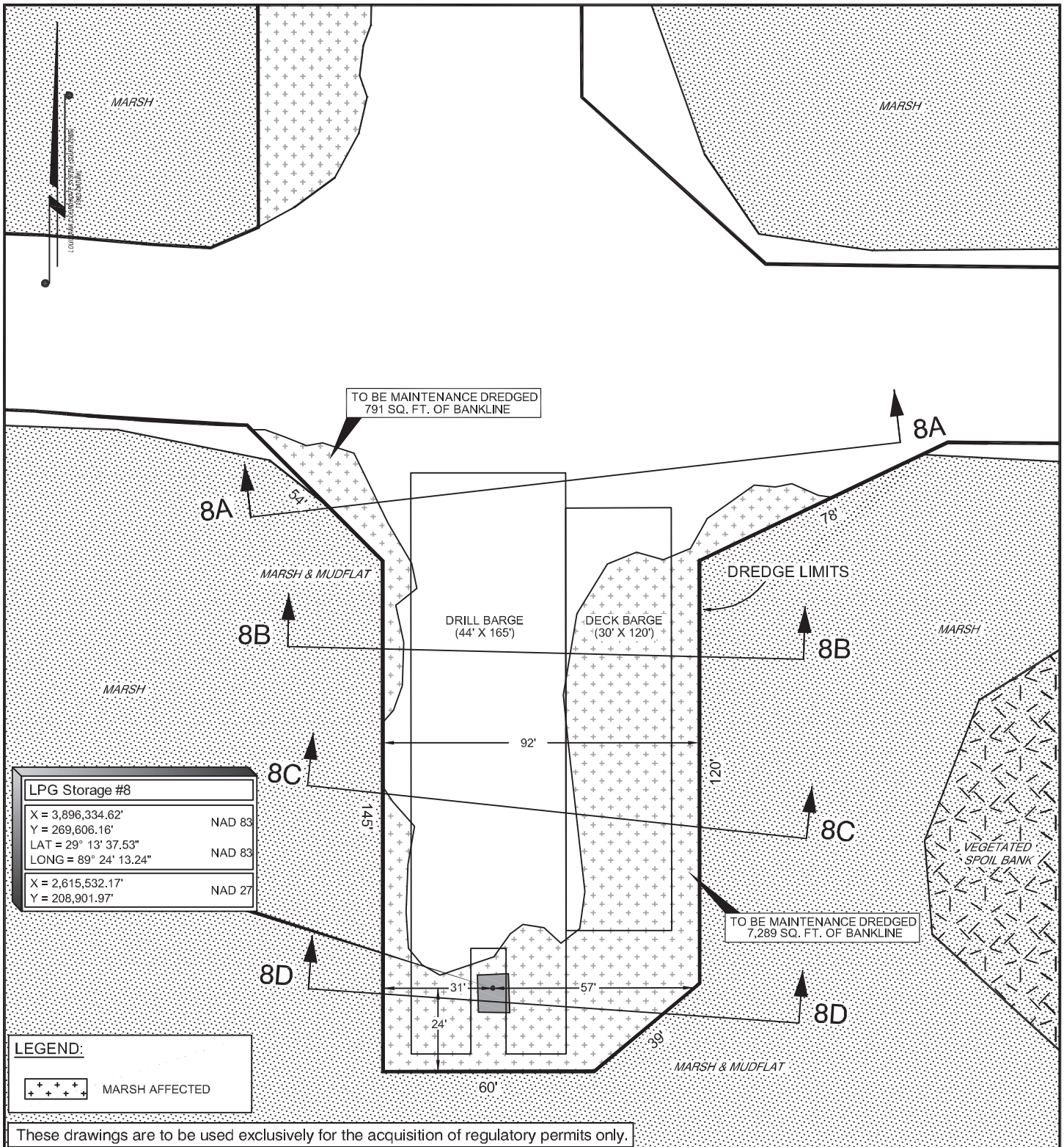
DRAWN BY: ARC	APPROVED BY: JMH
DATE: 01/17/2020	JOB NO: 2019.0181
DRAWING NAME: 2019.0181 P9.DWG	
SHEET NO: 26	OF 45
PROJECTION: LA-S	
GEO. DATUM: NAD83   VERT. DATUM: NAVD88	
GRID UNITS: US SURVEY FEET	
REVISION DESCRIPTION:	

These drawings are to be used exclusively for the acquisition of regulatory permits only.

**T. BAKER SMITH**  
 A CENTURY OF SOLUTIONS  
 412 South Van Ave., Houma, LA 70363  
 (866)988-1060 - tbs@tbsmith.com

REV. NO: 00	REV. DATE: --/--	REV. BY: --
-------------	------------------	-------------

1/22/2020 - P:\Y-2019\2019.0181\DWG\PERMIT DRAWINGS\4TH REVISION PERMIT\2019.0181 SLIP 8.DWG

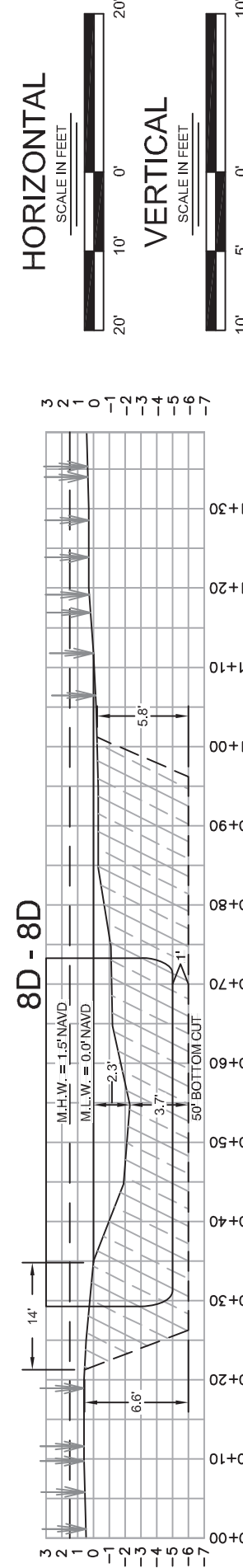
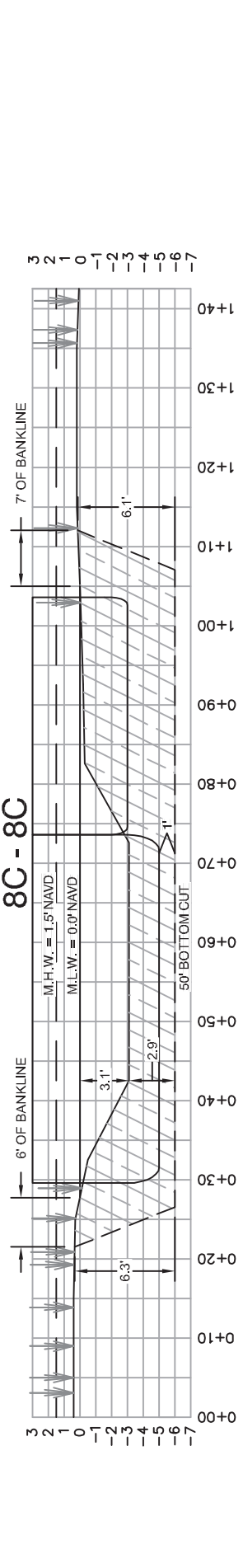
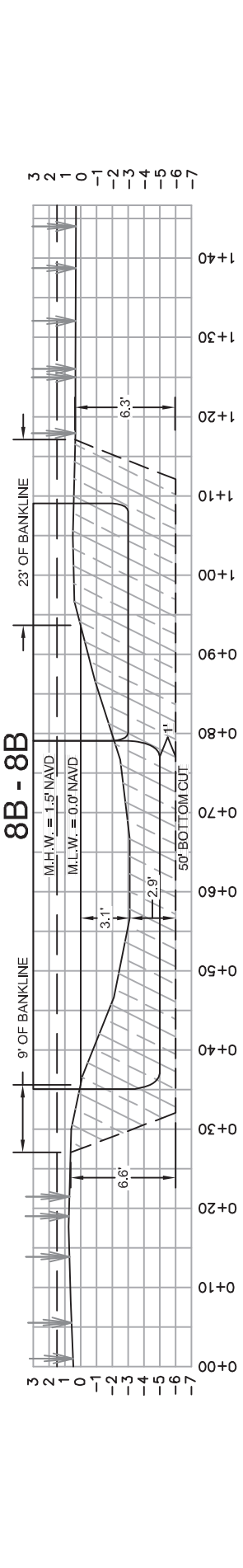
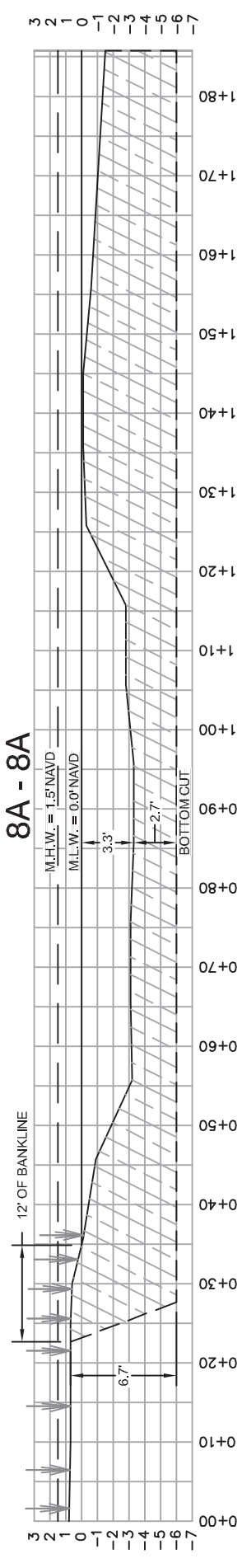


LPG Storage #8	
X = 3,896,334.62'	NAD 83
Y = 269,606.16'	NAD 83
LAT = 29° 13' 37.53"	NAD 83
LONG = 89° 24' 13.24"	NAD 83
X = 2,615,532.17'	NAD 27
Y = 208,901.97'	NAD 27

LEGEND:	
	MARSH AFFECTED

These drawings are to be used exclusively for the acquisition of regulatory permits only.

DRAWN BY: ARC		APPROVED BY: JMH		<b>WELL SLIP PLAN VIEW</b> <b>TARGA MIDSTREAM SERVICES LLC</b> PROPOSED MAINTENANCE DREDGING TO RESTORE ACCESS TO EXISTING LPG STORAGE WELLS & BOAT SLIP IN THE VENICE OIL & GAS FIELD PLAQUEMINES PARISH, LOUISIANA	
DATE: 01/17/2020		JOB NO: 2019.0181			
DRAWING NAME: 2019.0181 SLIP 8.DWG					
SHEET NO: <b>27</b> OF <b>45</b>					
PROJECTION: LA-S GEO. DATUM: NAD83   VERT. DATUM: NAVD88 GRID UNITS: US SURVEY FEET				SCALE: 1" = 40' 	
<b>T. BAKER SMITH</b> A CENTURY OF SOLUTIONS 412 South Van Ave, Houma, LA 70363 (985)868-1050 - tbsmith.com		REV. NO: 00   REV. DATE: --/--   REV. BY: --		REVISION DESCRIPTION: -	



These drawings are to be used exclusively for the acquisition of regulatory permits only.		DRAWN BY: ARC		APPROVED BY: JMH	
		DATE: 01/17/2020		JOB NO: 2019.0181	
		DRAWING NAME: 2019.0181 SLIP 8.DWG			
		SHEET NO: 28 OF 45			
		PROJECTION: LAD-S GEO. DATUM: NAD83   VERT. DATUM: NAVD88 GRID UNITS: US SURVEY FEET			
		REVISION DESCRIPTION:			
REV. NO: 00	REV. DATE: --/--/--	REV. BY: --			

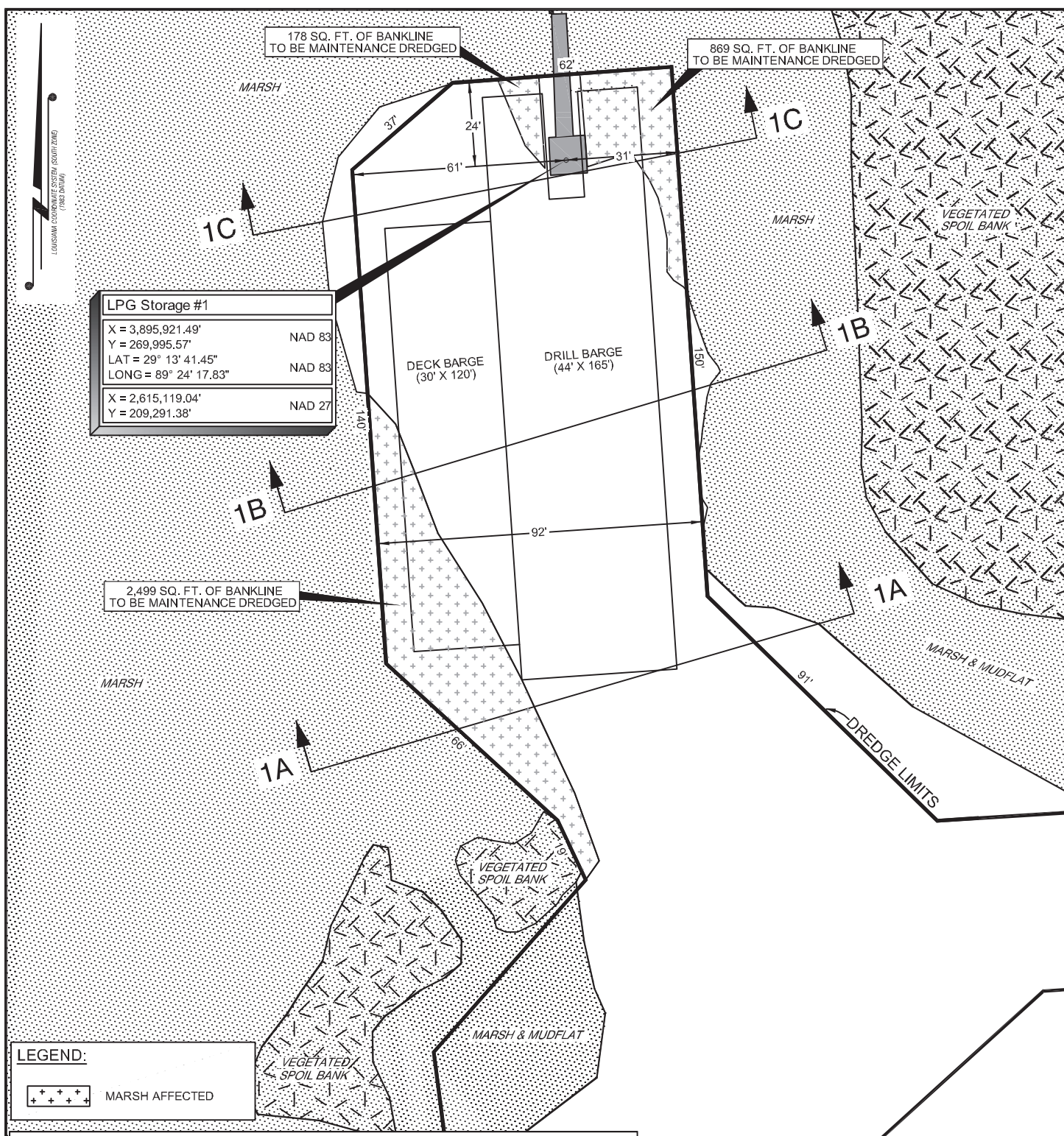
**WELL SLIP CROSS SECTIONS**

**TARGA MIDSTREAM SERVICES LLC**  
 PROPOSED MAINTENANCE DREDGING  
 TO RESTORE ACCESS TO  
 EXISTING LPG STORAGE WELLS & BOAT SLIP  
 IN THE VENICE OIL & GAS FIELD  
 PLAQUEMINES PARISH, LOUISIANA

**T. BAKER SMITH**  
 A CENTURY OF SOLUTIONS  
 412 South Van Ave, Houma, LA 70363  
 (885) 888-1060 - tbsmsh.com



1/22/2020 - P:\Y-2019\2019.0181\DWG\PERMIT DRAWINGS\4TH REVISION PERMIT\2019.0181 SLIP 1.DWG

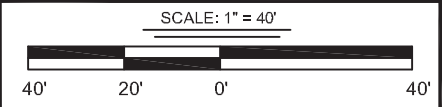


LPG Storage #1	
X = 3,895,921.49'	NAD 83
Y = 269,995.57'	NAD 83
LAT = 29° 13' 41.45"	NAD 83
LONG = 89° 24' 17.83"	NAD 83
X = 2,615,119.04'	NAD 27
Y = 209,291.38'	NAD 27

These drawings are to be used exclusively for the acquisition of regulatory permits only.

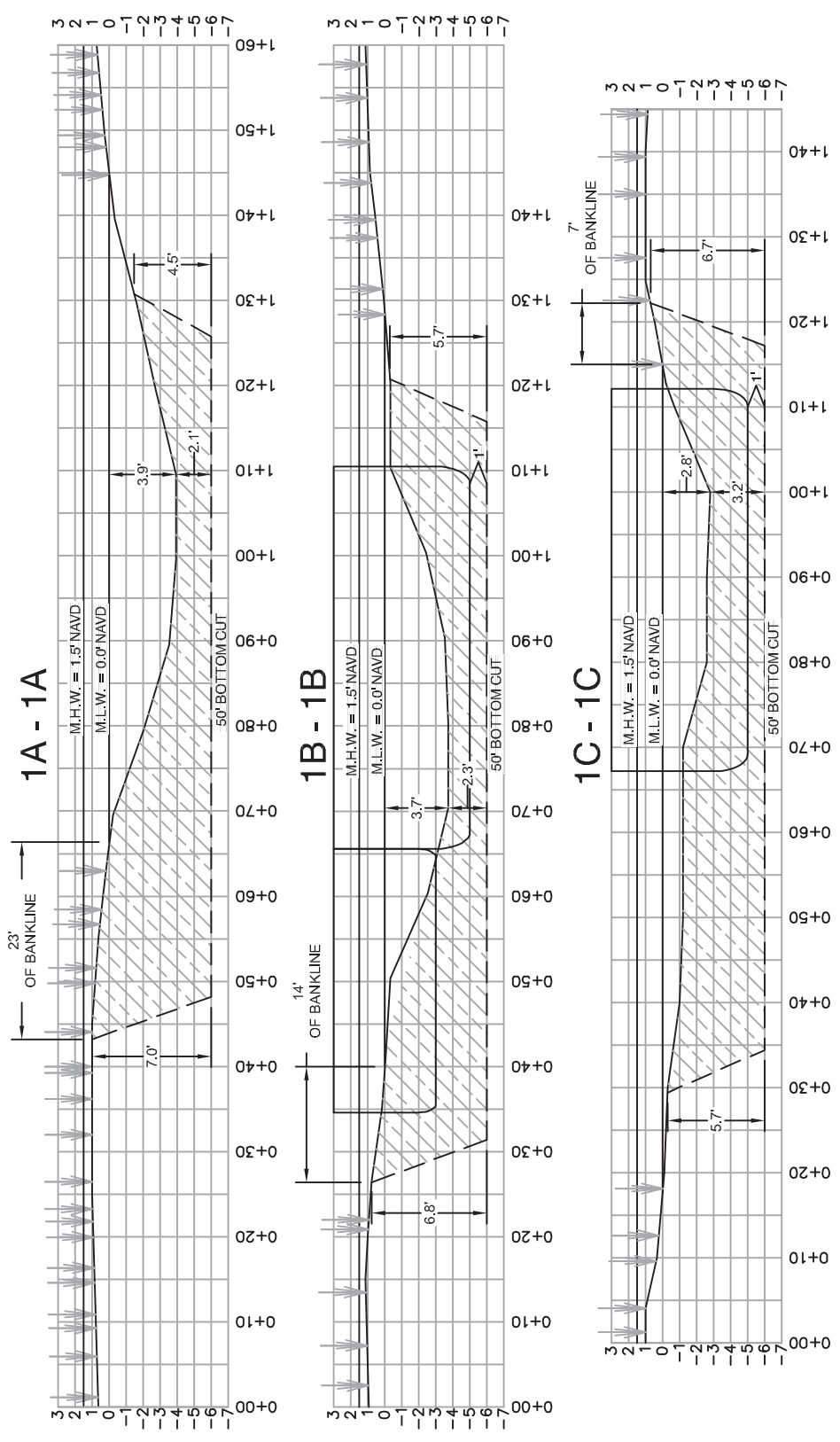
DRAWN BY:	ARC	APPROVED BY:	JMH
DATE:	01/17/2020	JOB NO:	2019.0181
DRAWING NAME:	2019.0181 SLIP 1.DWG		
SHEET NO:	29	OF	45
PROJECTION:	LA-S		
GEO. DATUM:	NAD83   VERT. DATUM: NAVD88		
GRID UNITS:	US SURVEY FEET		

**WELL SLIP PLAN VIEW**  
**TARGA MIDSTREAM SERVICES LLC**  
 PROPOSED MAINTENANCE DREDGING  
 TO RESTORE ACCESS TO  
 EXISTING LPG STORAGE WELLS & BOAT SLIP  
 IN THE VENICE OIL & GAS FIELD  
 PLAQUEMINES PARISH, LOUISIANA



**T. BAKER SMITH**  
 A CENTURY OF SOLUTIONS  
 412 South Van Ave, Houma, LA 70363  
 (985)868-1050 - tbsmith.com

REV. NO:	00	REV. DATE:	--/--	REV. BY:	--
REVISION DESCRIPTION:					
-					



These drawings are to be used exclusively for the acquisition of regulatory permits only.

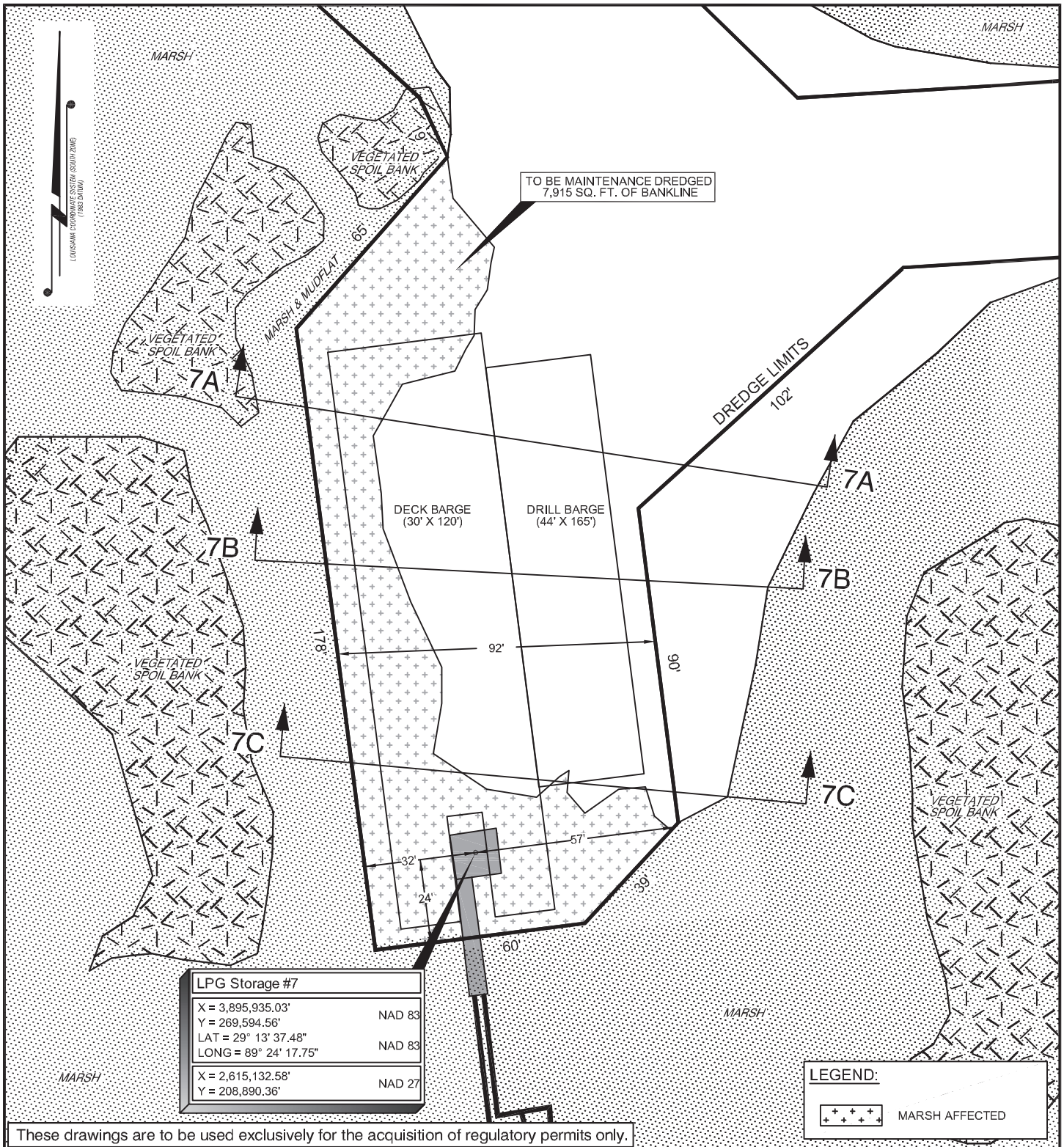
REV. NO:	00	REV. DATE:	--/--	REV. BY:	--
----------	----	------------	-------	----------	----

DRAWN BY:	ARC	APPROVED BY:	JMH
DATE:	01/17/2020	JOB NO:	2019.0181
DRAWING NAME:	2019.0181 SLP 1.DWG		
SHEET NO:	30	OF	45
PROJECTION:	LA-S		
GEO. DATUM:	NAD83   VERT. DATUM: NAVD88		
GRID UNITS:	US SURVEY FEET		
REVISION DESCRIPTION:	_		

**WELL SLIP CROSS SECTIONS**

**TARGA MIDSTREAM SERVICES LLC**  
 PROPOSED MAINTENANCE DREDGING  
 TO RESTORE ACCESS TO  
 EXISTING LPG STORAGE WELLS & BOAT SLIP  
 IN THE VENICE OIL & GAS FIELD  
 PLAQUEMINES PARISH, LOUISIANA

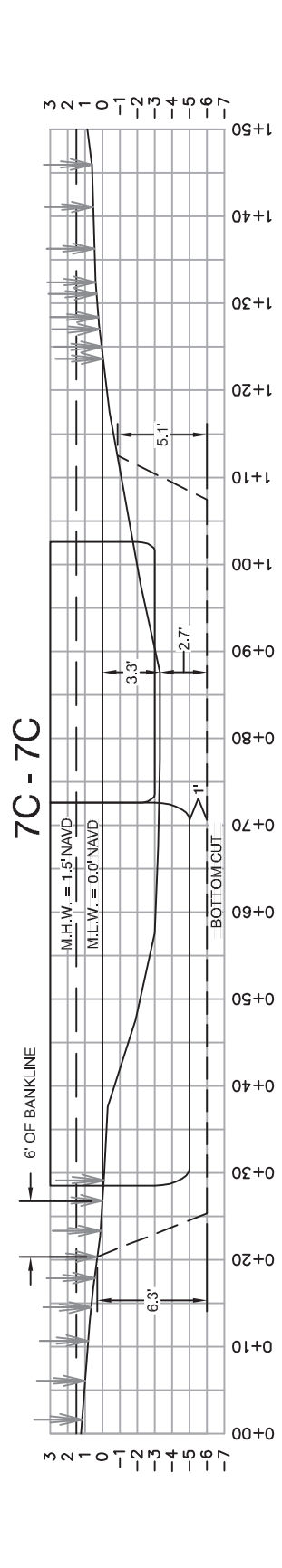
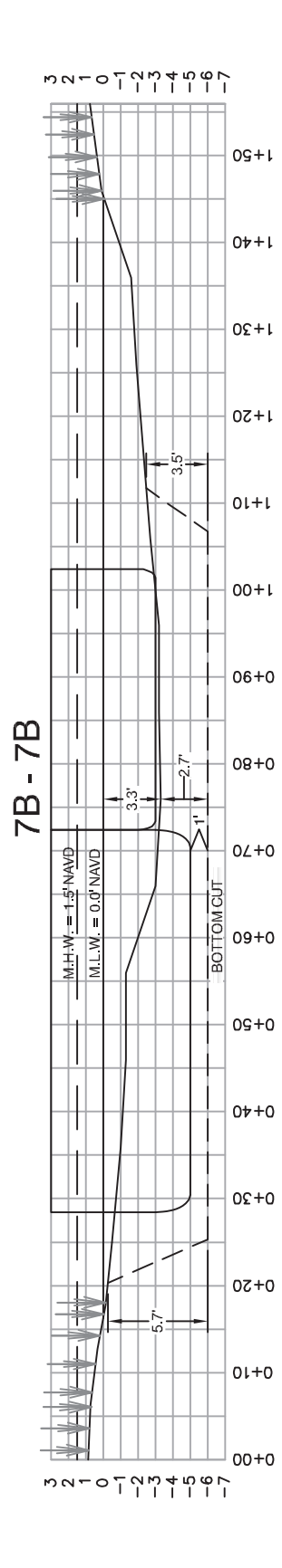
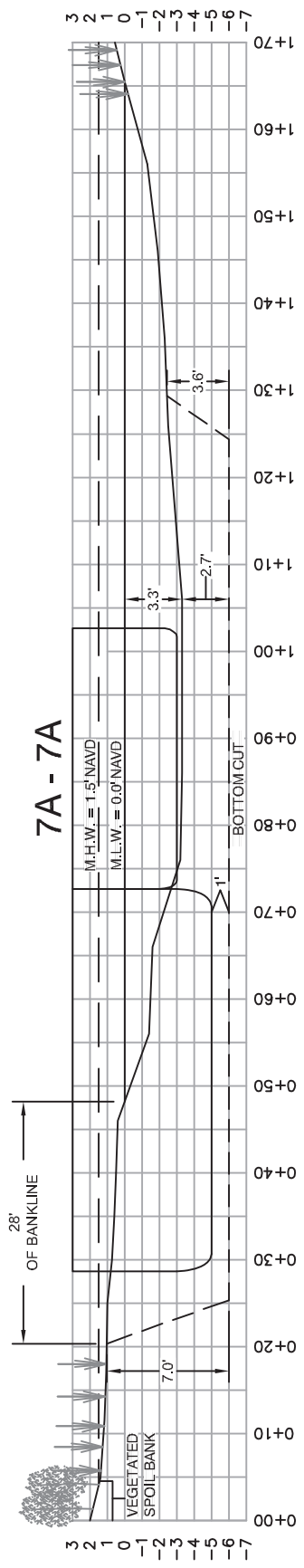
1/22/2020 - P:\Y-2019\2019.0181\DWG\PERMIT DRAWINGS\4TH REVISION PERMIT\2019.0181\_SLP 7.DWG



These drawings are to be used exclusively for the acquisition of regulatory permits only.

DRAWN BY: ARC		APPROVED BY: JMH		<b>WELL SLIP PLAN VIEW</b> <b>TARGA MIDSTREAM SERVICES LLC</b> PROPOSED MAINTENANCE DREDGING TO RESTORE ACCESS TO EXISTING LPG STORAGE WELLS & BOAT SLIP IN THE VENICE OIL & GAS FIELD PLAQUEMINES PARISH, LOUISIANA	
DATE: 01/17/2020		JOB NO: 2019.0181			
DRAWING NAME: 2019.0181 SLP 7.DWG					
SHEET NO: 31		OF 45			
PROJECTION: LA-S GEO. DATUM: NAD83   VERT. DATUM: NAVD88 GRID UNITS: US SURVEY FEET				SCALE: 1" = 40' 	
<b>T. BAKER SMITH</b> A CENTURY OF SOLUTIONS 412 South Van Ave, Houma, LA 70363 (985)868-1050 - tbsmith.com		REV. NO: 00	REV. DATE: --/--	REV. BY: --	REVISION DESCRIPTION: --





VERTICAL  
SCALE IN FEET



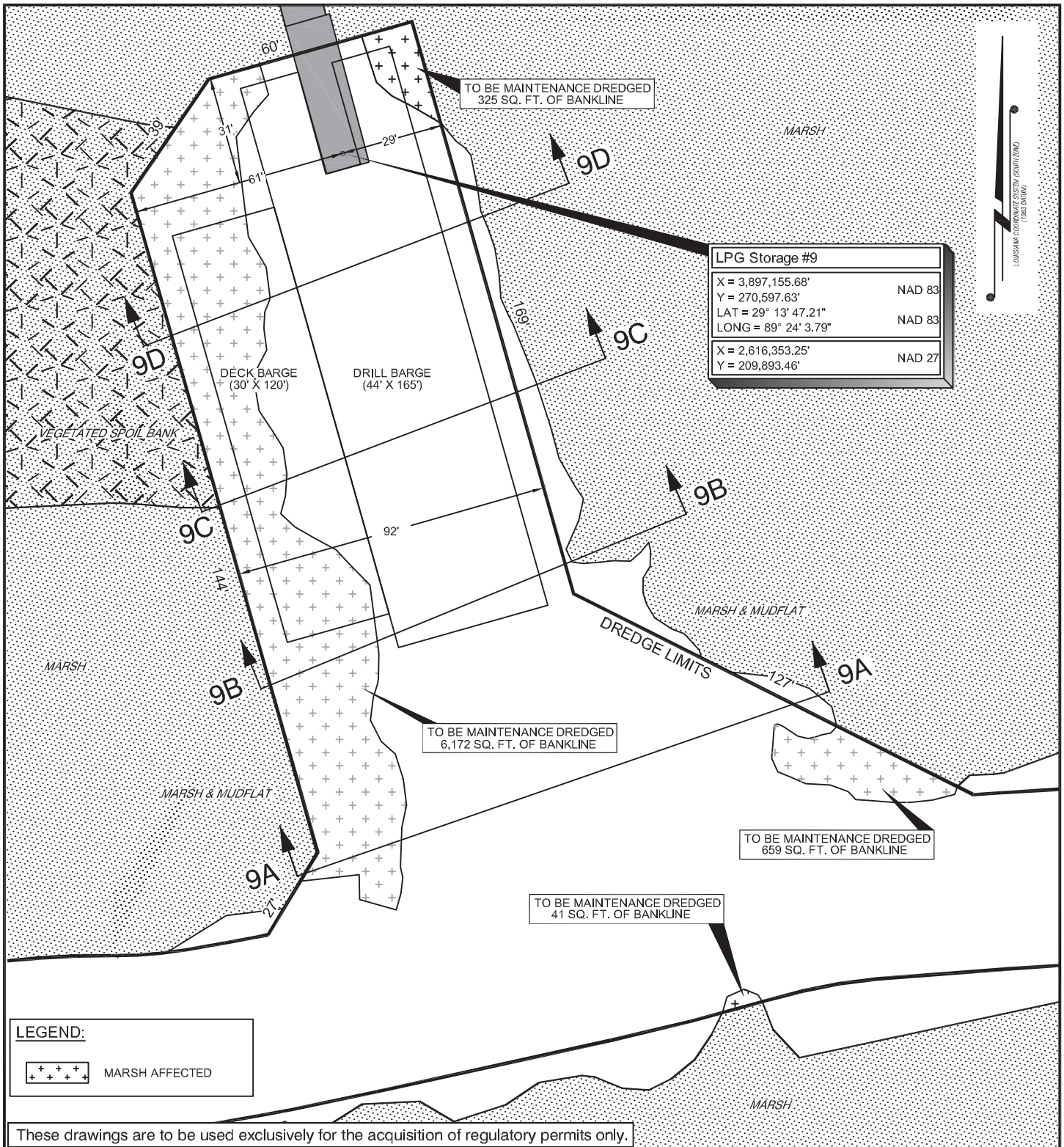
HORIZONTAL  
SCALE IN FEET



These drawings are to be used exclusively for the acquisition of regulatory permits only.		DRAWN BY: ARC		APPROVED BY: JMH	
DATE: 01/17/2020		JOB NO: 2019.0181		TARGA MIDSTREAM SERVICES LLC PROPOSED MAINTENANCE DREDGING TO RESTORE ACCESS TO EXISTING LPG STORAGE WELLS & BOAT SLIP IN THE VENICE OIL & GAS FIELD PLAQUEMINES PARISH, LOUISIANA	
DRAWING NAME: 2019.0181 SLP 7.DWG		SHEET NO: 32 OF 45		PROJECTION: LA-S GEO. DATUM: NAD83   VERT. DATUM: NAVD88 GRID UNITS: US SURVEY FEET	
REV. NO: 00		REV. DATE: --/--		REV. BY: --	



1/22/2020 - P:\Y-2019\2019.0181\DWG\PERMIT DRAWINGS\4TH REVISION PERMIT\2019.0181 SLIP 9.DWG

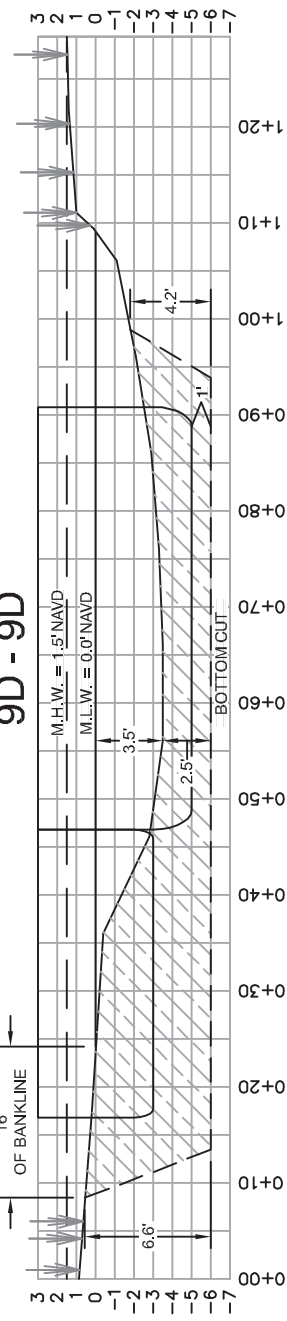
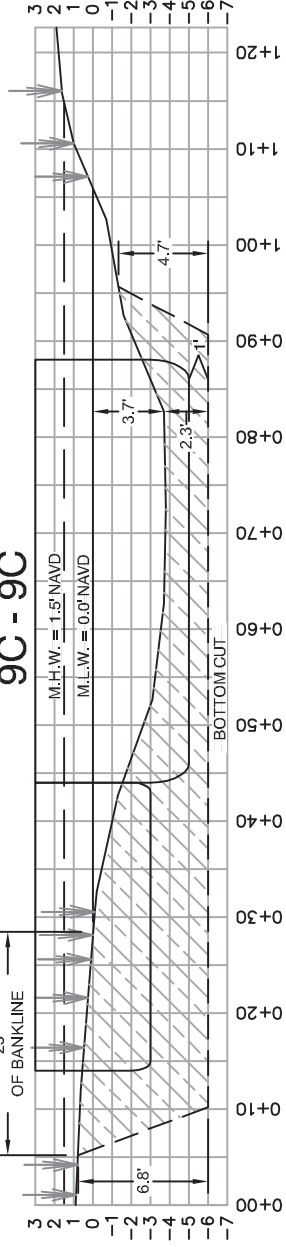
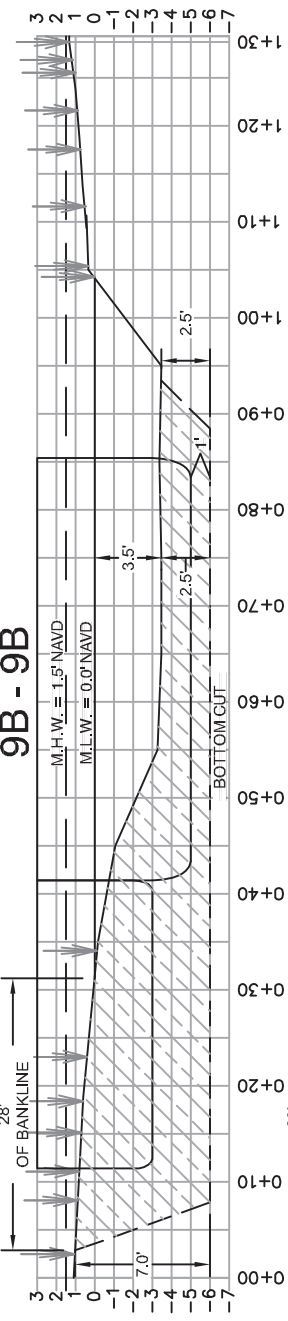
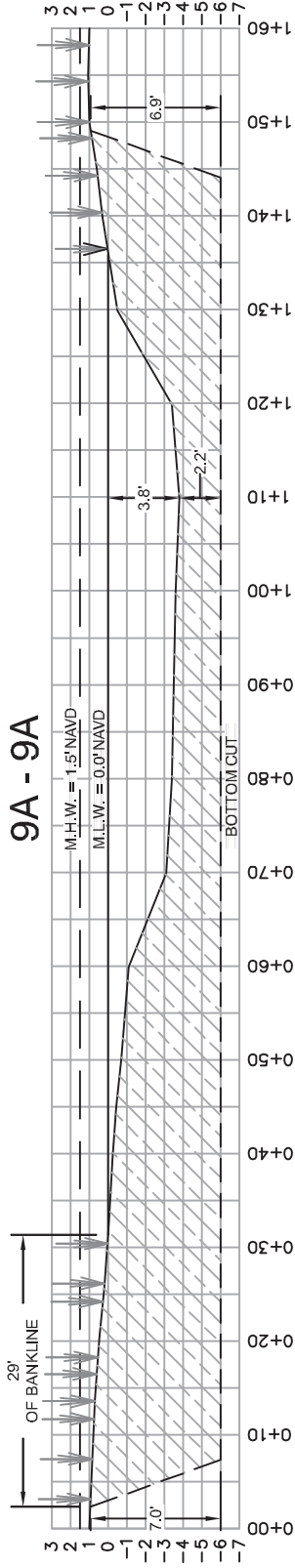


**LEGEND:**

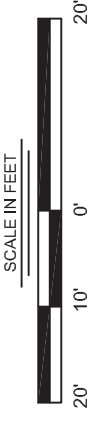
	MARSH AFFECTED
--	----------------

These drawings are to be used exclusively for the acquisition of regulatory permits only.

DRAWN BY: ARC	APPROVED BY: JMH	<b>WELL SLIP PLAN VIEW</b> <b>TARGA MIDSTREAM SERVICES LLC</b> PROPOSED MAINTENANCE DREDGING TO RESTORE ACCESS TO EXISTING LPG STORAGE WELLS & BOAT SLIP IN THE VENICE OIL & GAS FIELD PLAQUEMINES PARISH, LOUISIANA		
DATE: 01/17/2020	JOB NO: 2019.0181			
DRAWING NAME: 2019.0181 SLIP 9.DWG				
SHEET NO: <b>33</b> OF <b>45</b>				
PROJECTION: LA-S GEO. DATUM: NAD83   VERT. DATUM: NAVD88 GRID UNITS: US SURVEY FEET		SCALE: 1" = 40' 		
<b>T. BAKER SMITH</b> A CENTURY OF SOLUTIONS 412 South Van Ave, Houma, LA 70363 (985)868-1050 - tbsmith.com		REV. NO: 00	REV. DATE: --/--	REV. BY: --
		REVISION DESCRIPTION: --		



HORIZONTAL  
SCALE IN FEET



VERTICAL  
SCALE IN FEET



9A - 9A

9B - 9B

9C - 9C

9D - 9D

WELL SLIP CROSS SECTIONS

TARGA MIDSTREAM SERVICES LLC

PROPOSED MAINTENANCE DREDGING

TO RESTORE ACCESS TO

EXISTING LPG STORAGE WELLS & BOAT SLIP

IN THE VENICE OIL & GAS FIELD

PLAQUEMINES PARISH, LOUISIANA

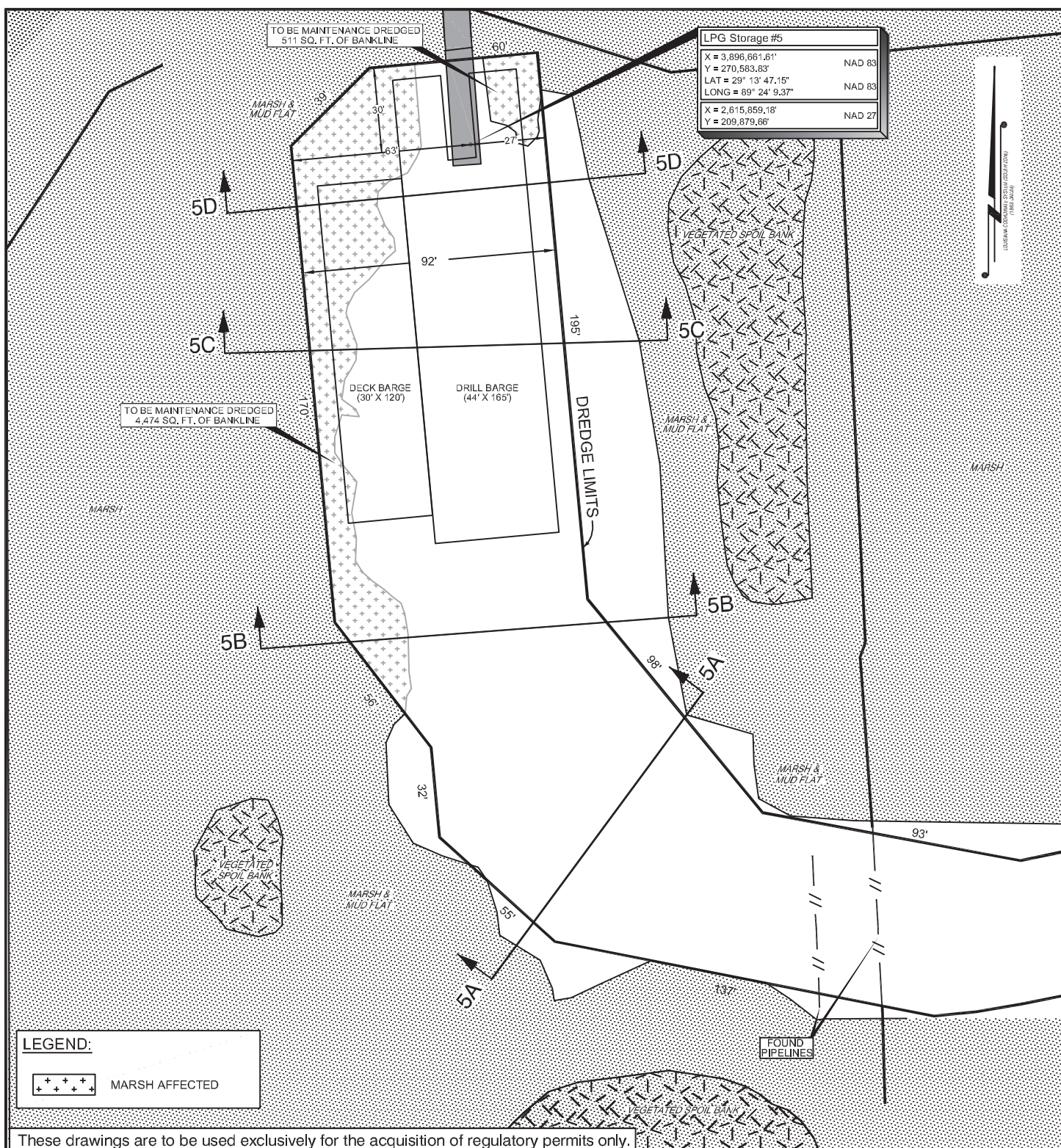
DRAWN BY:	ARC	APPROVED BY:	JMH
DATE:	01/17/2020	JOB NO:	2019.0181
DRAWING NAME:	2019.0181 SLIP 9.DWG		
SHEET NO:	34	OF	45
PROJECTION:	L.A.S		
GEO. DATUM:	NAD83		
VERT. DATUM:	NAVD88		
GRID UNITS:	US SURVEY FEET		
REVISION DESCRIPTION:	_		

These drawings are to be used exclusively for the acquisition of regulatory permits only.

412 South Van Ave, Houma, LA 70363  
(865)888-1060 - tbs@tbs.com

REV. NO:	00	REV. DATE:	--/--	REV. BY:	--
----------	----	------------	-------	----------	----

1/22/2020 - P:\Y-2019\2019.01.181\DWG\PERMIT DRAWINGS\4TH REVISION PERMIT\2019.01.181 SLIP 5.DWG



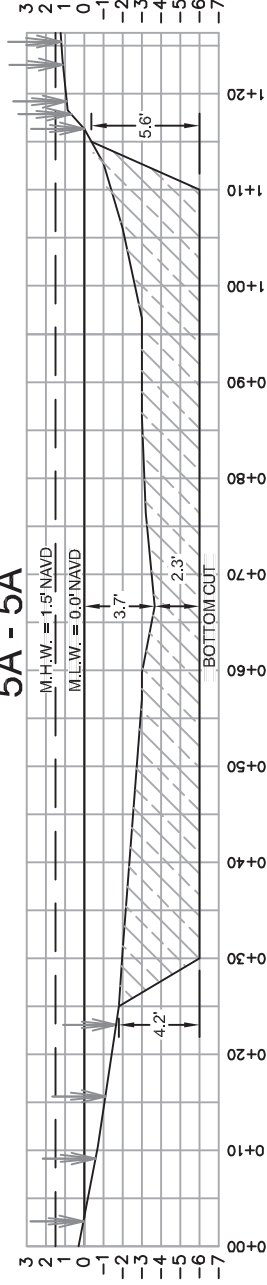
**LEGEND:**  
 MARSH AFFECTED

These drawings are to be used exclusively for the acquisition of regulatory permits only.

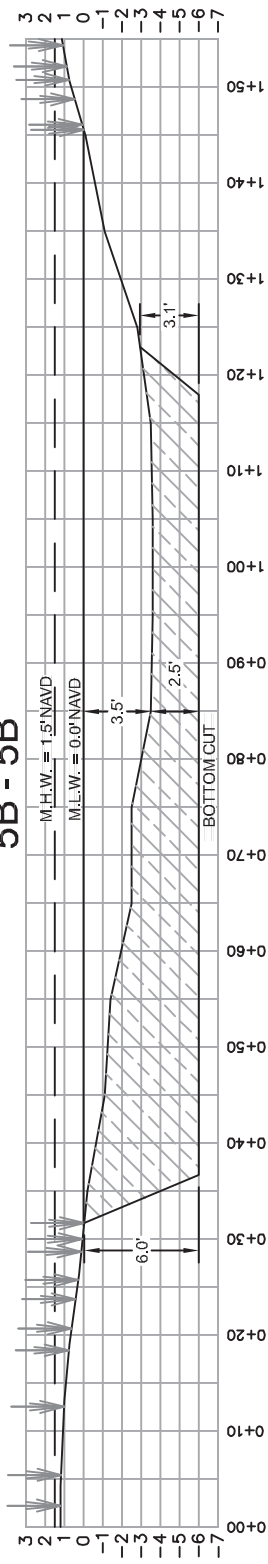
DRAWN BY: ARC		APPROVED BY: JMH		<b>WELL SLIP PLAN VIEW</b> <b>TARGA MIDSTREAM SERVICES LLC</b> PROPOSED MAINTENANCE DREDGING TO RESTORE ACCESS TO EXISTING LPG STORAGE WELLS IN THE VENICE OIL & GAS FIELD PLAQUEMINES PARISH, LOUISIANA	
DATE: 01/17/2020		JOB NO: 2019.0181			
DRAWING NAME: 2019.0181 SLIP 5.DWG					
SHEET NO: 35		OF 45			
PROJECTION: LA-S GEO. DATUM: NAD83   VERT. DATUM: NAVD88 GRID UNITS: US SURVEY FEET				SCALE: 1" = 50' 	
<b>T. BAKER SMITH</b> A CENTURY OF SOLUTIONS 412 South Van Ave, Houma, LA 70363 (985)868-1050 - tbsmith.com		REV. NO: 00    REV. DATE: --/--    REV. BY: --		REVISION DESCRIPTION: -	



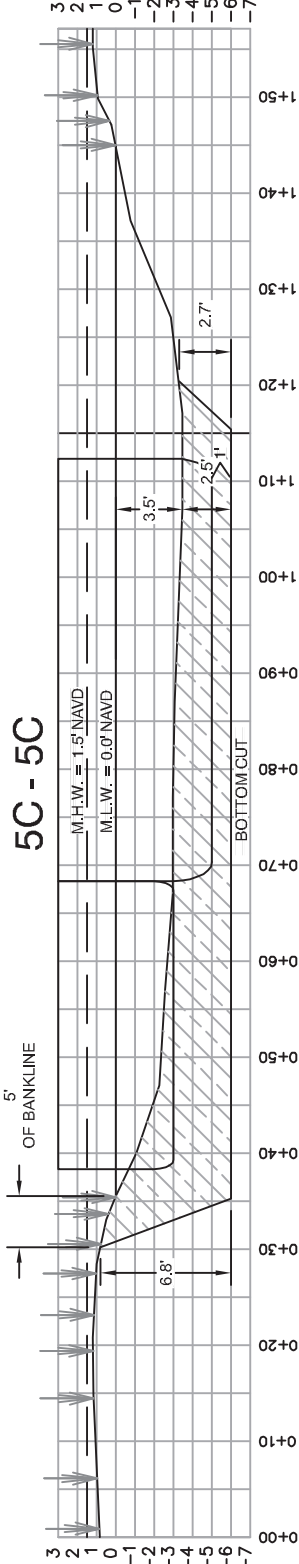
**5A - 5A**



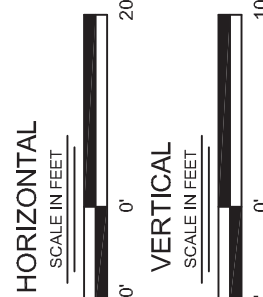
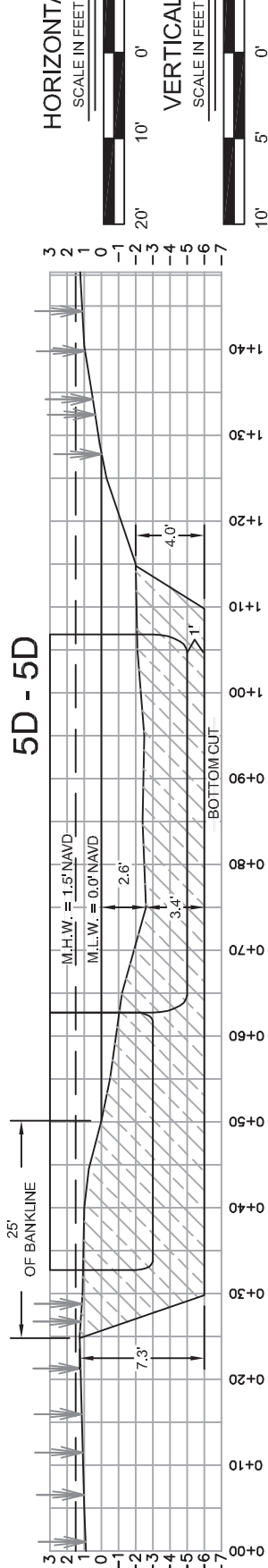
**5B - 5B**



**5C - 5C**



**5D - 5D**



**WELL SLIP CROSS SECTIONS**

**TARGA MIDSTREAM SERVICES LLC**  
 PROPOSED MAINTENANCE DREDGING  
 TO RESTORE ACCESS TO  
 EXISTING LPG STORAGE WELLS & BOAT SLIP  
 IN THE VENICE OIL & GAS FIELD  
 PLAQUEMINES PARISH, LOUISIANA

DRAWN BY: ARC	APPROVED BY: JMH
DATE: 01/17/2020	JOB NO: 2019.0181
DRAWING NAME: 2019.0181 SLIP 5.DWG	
SHEET NO: 36	OF 45
PROJECTION: LA-S	
GEO. DATUM: NAD83   VERT. DATUM: NAVD88	
GRID UNITS: US SURVEY FEET	
REVISION DESCRIPTION:	

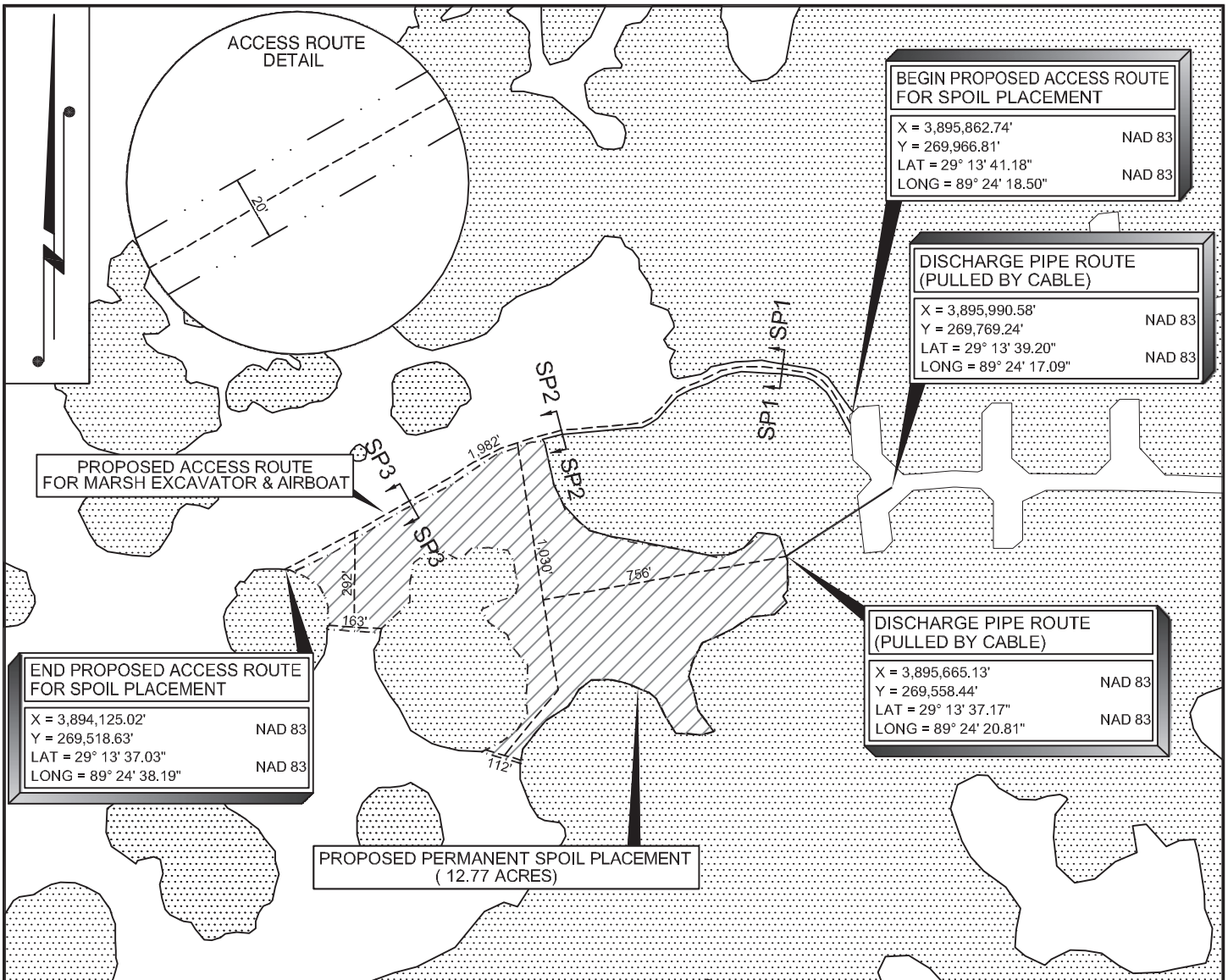
These drawings are to be used exclusively for the acquisition of regulatory permits only.

**TBS**  
**T. BAKER SMITH**  
 A CENTURY OF SOLUTIONS  
 412 South Van Ave, Houma, LA 70363  
 (885)888-1060 - tbs@tbsmith.com

REV. NO: 00    REV. DATE: --/--/--    REV. BY: --



1/23/2020 - P:\Y-2019\2019.0181\DWG\PERMIT DRAWINGS\4TH REVISION PERMIT\JMHSPOIL PLACEMENT 1.DWG



**END PROPOSED ACCESS ROUTE FOR SPOIL PLACEMENT**

X = 3,894,125.02' NAD 83  
 Y = 269,518.63' NAD 83  
 LAT = 29° 13' 37.03" NAD 83  
 LONG = 89° 24' 38.19" NAD 83

**BEGIN PROPOSED ACCESS ROUTE FOR SPOIL PLACEMENT**

X = 3,895,862.74' NAD 83  
 Y = 269,966.81' NAD 83  
 LAT = 29° 13' 41.18" NAD 83  
 LONG = 89° 24' 18.50" NAD 83

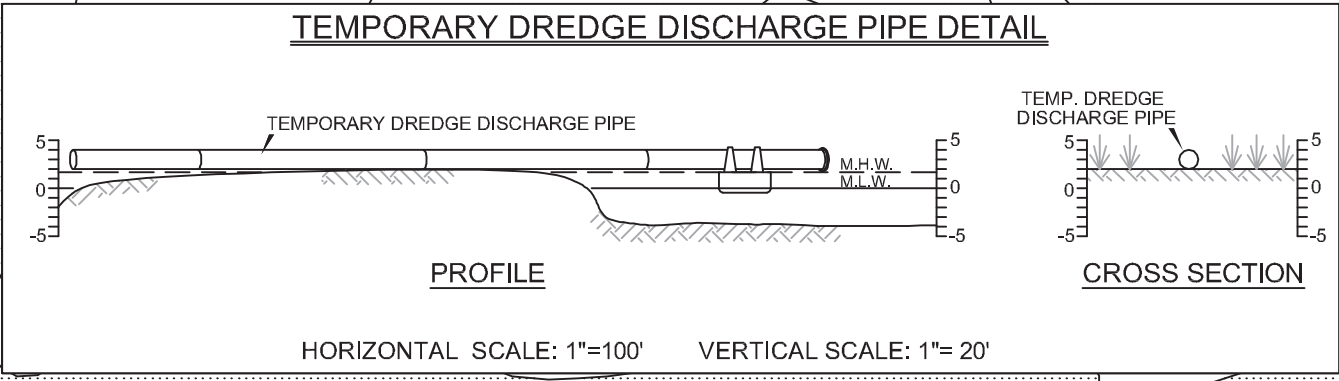
**DISCHARGE PIPE ROUTE (PULLED BY CABLE)**

X = 3,895,990.58' NAD 83  
 Y = 269,769.24' NAD 83  
 LAT = 29° 13' 39.20" NAD 83  
 LONG = 89° 24' 17.09" NAD 83

**DISCHARGE PIPE ROUTE (PULLED BY CABLE)**

X = 3,895,665.13' NAD 83  
 Y = 269,558.44' NAD 83  
 LAT = 29° 13' 37.17" NAD 83  
 LONG = 89° 24' 20.81" NAD 83

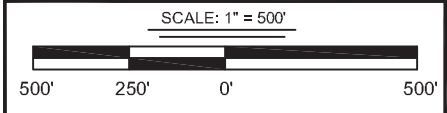
**PROPOSED PERMANENT SPOIL PLACEMENT (12.77 ACRES)**



DRAWN BY: JMHS	APPROVED BY: JMHS
DATE: 1/16/20	JOB NO: 2019.0181
DRAWING NAME: JMHSPOIL PLACEMENT 1.DWG	
SHEET NO: 37 OF 45	
PROJECTION: LOUISIANA SOUTH GEO. DATUM: NAD83   VERT. DATUM: NAVD88 GRID UNITS: US SURVEY FEET	

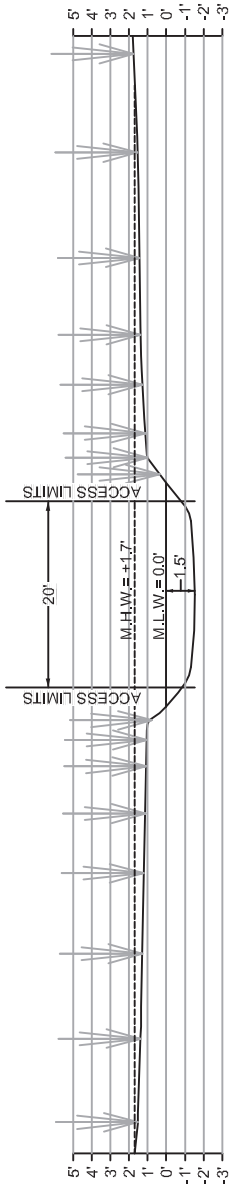
**ACCESS TO SPOIL FILL SITE**

**TARGA MIDSTREAM SERVICES LLC**  
 PROPOSED MAINTENANCE DREDGING  
 TO RESTORE ACCESS  
 TO EXISTING LPG STORAGE WELLS & BOAT SLIP  
 IN VENICE OIL & GAS FIELD  
 PLAQUEMINES PARISH, LOUISIANA

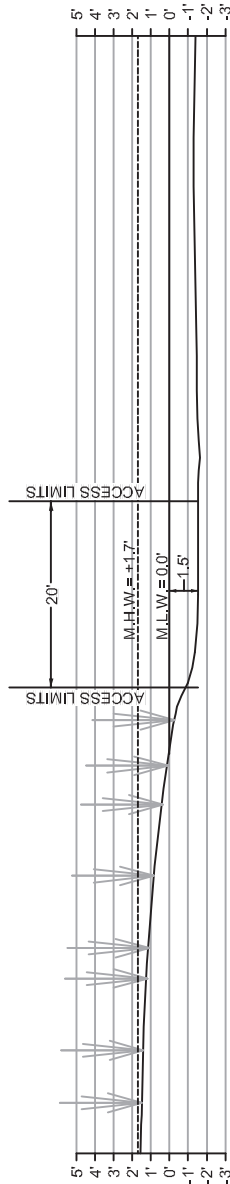


**T. BAKER SMITH**  
 A CENTURY OF SOLUTIONS  
 412 South Van Ave, Houma, LA 70363  
 (985)868-1050 - tbsmith.com

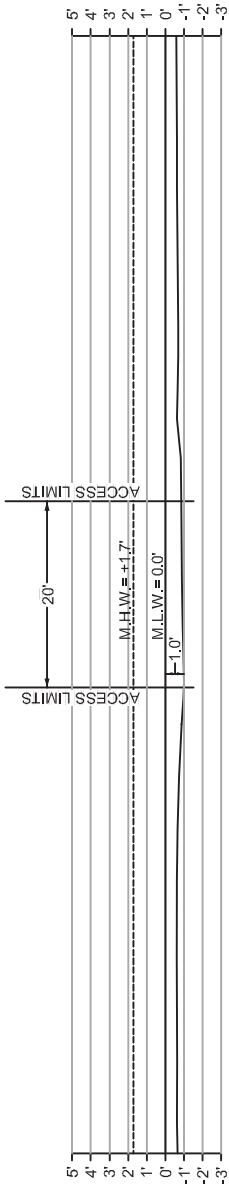
REV. NO: 00	REV. DATE: --/--	REV. BY: --
REVISION DESCRIPTION: -		



SECTION SP1 - SP1



SECTION SP2 - SP2



SECTION SP3 - SP3

HORIZONTAL  
SCALE IN FEET



VERTICAL  
SCALE IN FEET



SCALE: 1" = 20'

**T. BAKER SMITH**  
A CENTURY OF SOLUTIONS  
412 South Yen Ave., Houma, LA 70363  
(985) 868-1050 - tbsmith.com

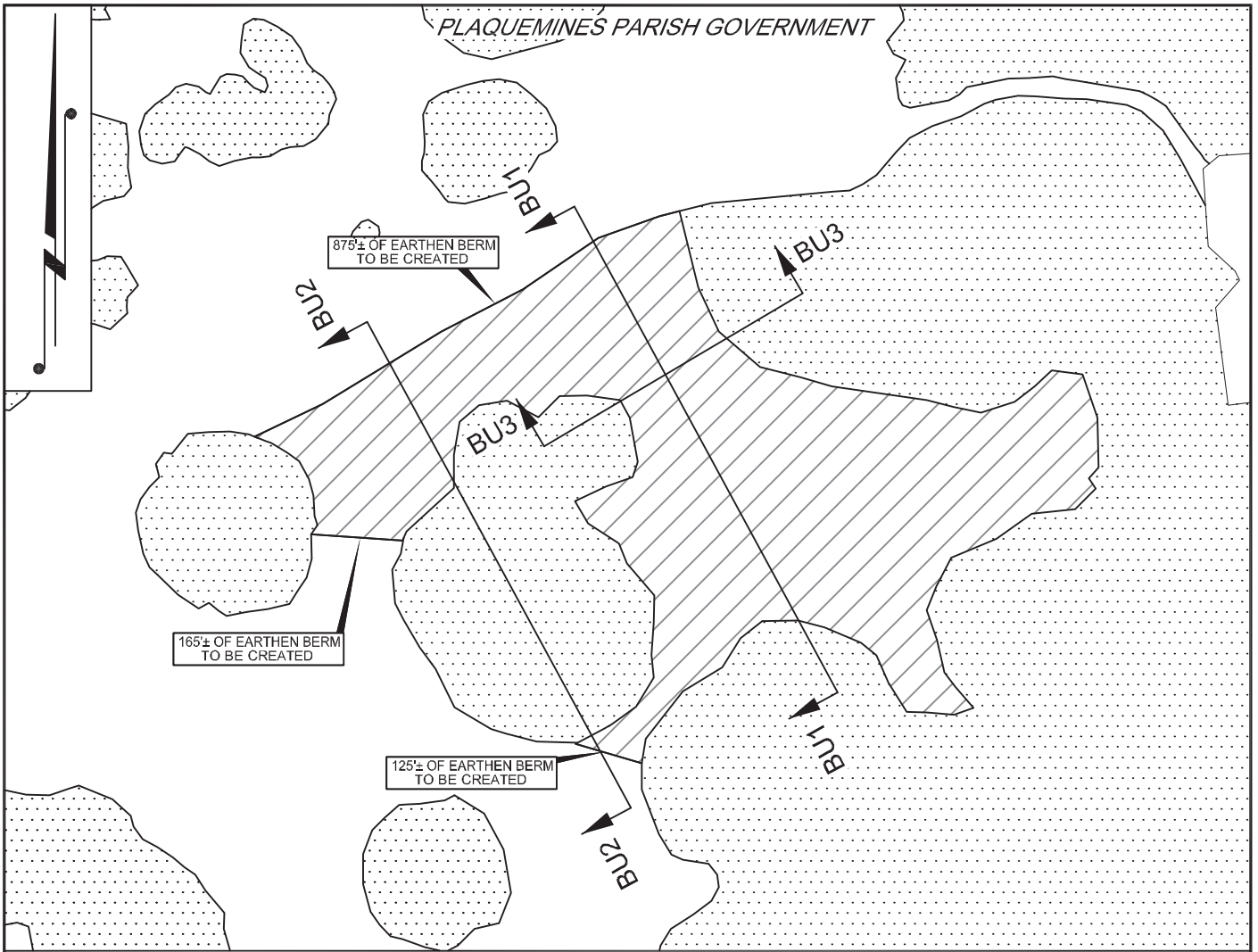
REV. NO:	00	REV. DATE:	--/--/--	REV. BY:	---
----------	----	------------	----------	----------	-----

DRAWN BY:	JMH	APPROVED BY:	JMH
DATE:	1/16/20	JOB NO:	2019.0181
DRAWING NAME:	JMHSPOIL_PLACEMENT 3.DWG		
SHEET NO:	38	OF	45
PROJECTION: LOUISIANA SOUTH GEO. DATUM: NAD83   VERT. DATUM: NAVD88 GRID UNITS: US SURVEY FEET			
REVISION DESCRIPTION:			

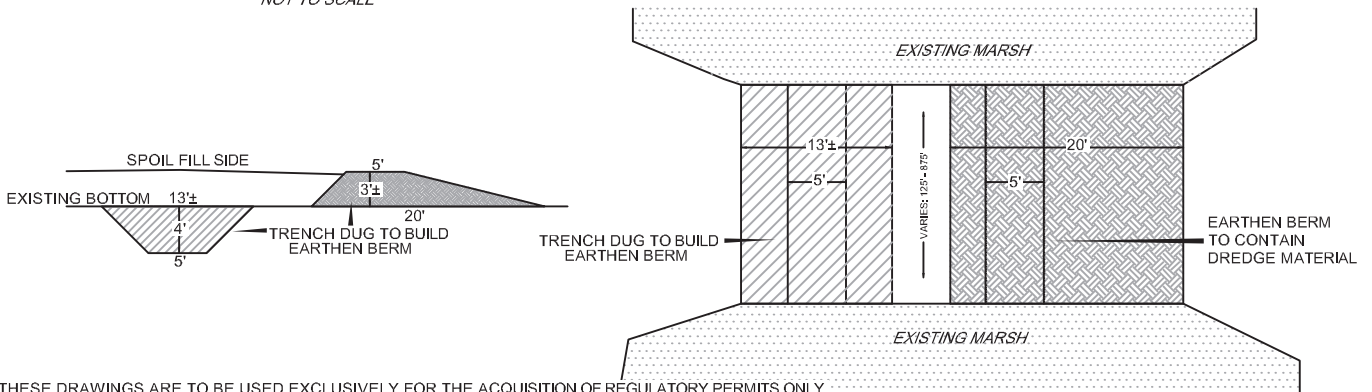
**SPOIL PLACEMENT ACCESS**

**TARGA MIDSTREAM SERVICES LLC**  
PROPOSED MAINTENANCE DREDGING  
TO RESTORE ACCESS  
TO EXISTING LPG STORAGE WELLS & BOAT SLIP  
IN VENICE OIL & GAS FIELD  
PLAQUEMINES PARISH, LOUISIANA

1/2/2020 - P:\Y-2019\2019.0181\DWG\PERMIT DRAWINGS\4TH REVISION PERMIT\JMHSPOIL PLACEMENT 2.DWG



DETAIL: BERM CONSTRUCTION TO CONTAIN SPOIL MATERIAL  
NOT TO SCALE



THESE DRAWINGS ARE TO BE USED EXCLUSIVELY FOR THE ACQUISITION OF REGULATORY PERMITS ONLY.

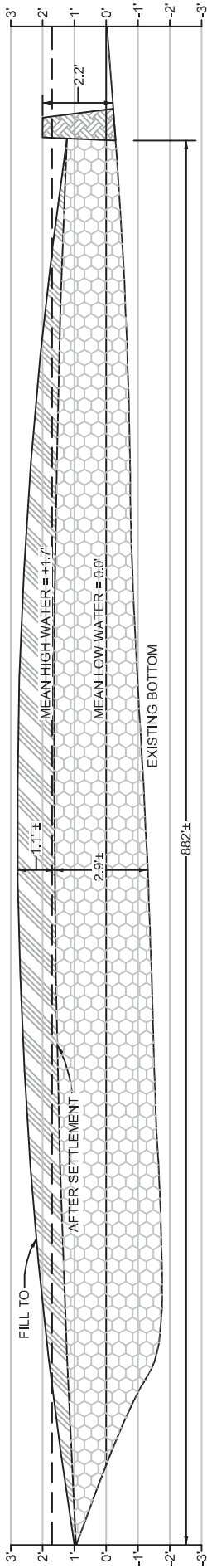
DRAWN BY:	JMH	APPROVED BY:	JMH
DATE:	1/16/20	JOB NO.:	2019.0181
DRAWING NAME:	JMHSPOIL PLACEMENT 2.DWG		
SHEET NO.:	39	OF	45
PROJECTION: LOUISIANA SOUTH GEO. DATUM: NAD83   VERT. DATUM: NAVD88 GRID UNITS: US SURVEY FEET			
SCALE: 1" = 300'			

**SPOIL CONTAINMENT DETAILS**

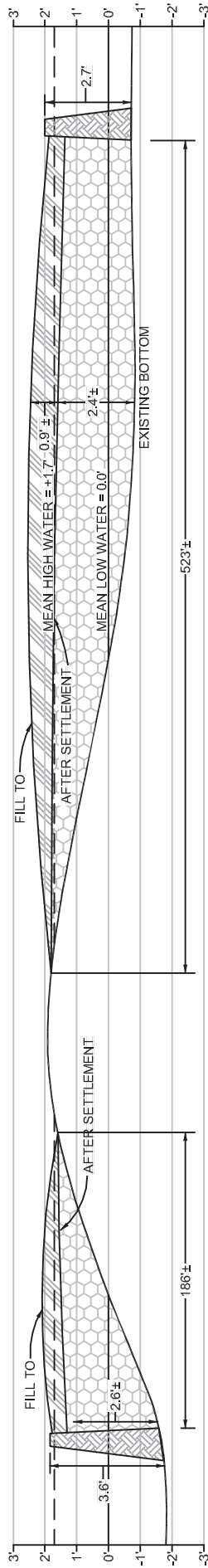
**TARGA MIDSTREAM SERVICES LLC**  
PROPOSED MAINTENANCE DREDGING  
TO RESTORE ACCESS  
TO EXISTING LPG STORAGE WELLS & BOAT SLIP  
IN VENICE OIL & GAS FIELD  
PLAQUEMINES PARISH, LOUISIANA

REV. NO:	00	REV. DATE:	--/--/--	REV. BY:	---
REVISION DESCRIPTION: --					

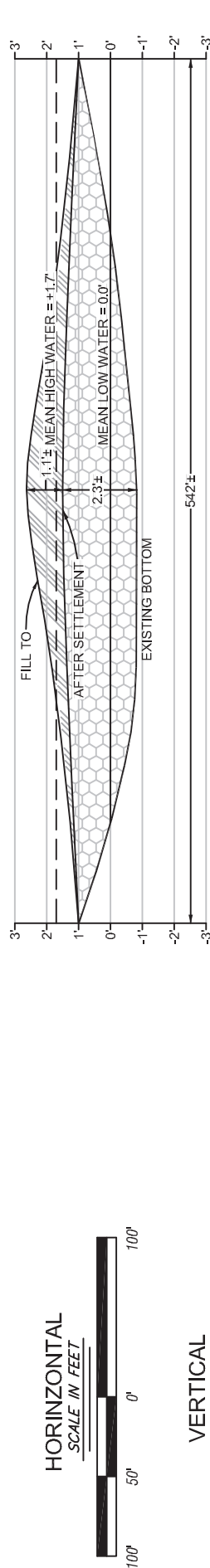
**T. BAKER SMITH**  
A CENTURY OF SOLUTIONS  
412 South Van Ave, Houma, LA 70363  
(885)868-1050 - tbsmith.com



SECTION BU1 - BU1



SECTION BU2 - BU2



SECTION BU3 - BU3

HORINZONTAL  
SCALE IN FEET



VERTICAL  
SCALE IN FEET



SCALE: 1" = 100'



**TBS**  
**T. BAKER SMITH**  
 A CENTURY OF SOLUTIONS  
 412 South Van Ave, Houma, LA 70363  
 (865) 988-1050 - tbs@tbsm.com

REV. NO:	00	REV. DATE:	--/--	REV. BY:	--
----------	----	------------	-------	----------	----

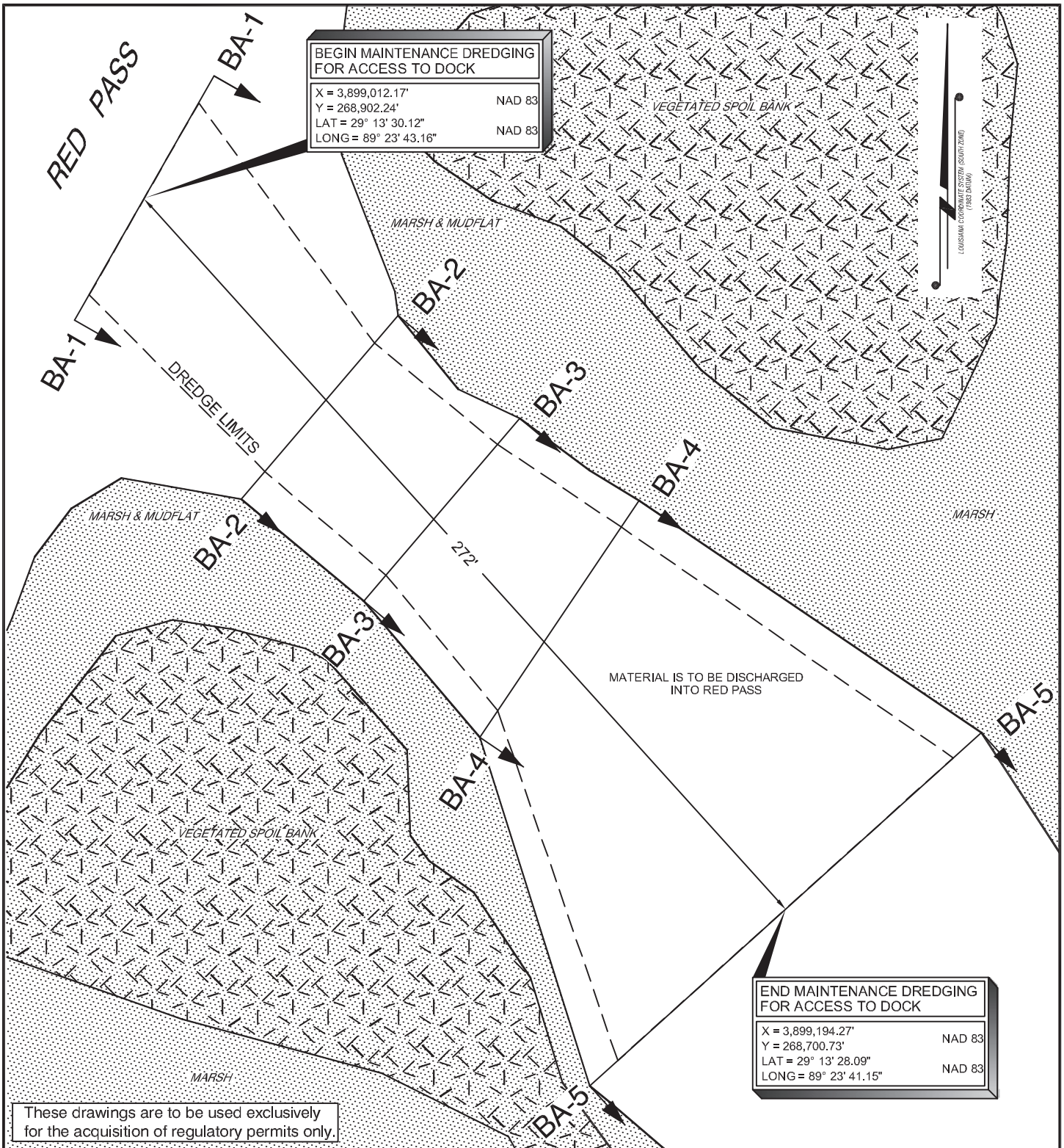
DRAWN BY:	JMH	APPROVED BY:	JMH
DATE:	1/16/20	JOB NO:	2019.0181
DRAWING NAME:	JMH SPOIL PLACEMENT 4.DWG		
SHEET NO:	40	OF	45
PROJECTION:	LOUISIANA SOUTH		
GEO. DATUM:	NAD83   VERT. DATUM: NAVD88		
GRID UNITS:	US SURVEY FEET		
REVISION DESCRIPTION:	_		

SPOIL FILL PROFILES

**TARGA MIDSTREAM SERVICES LLC**  
 PROPOSED MAINTENANCE DREDGING  
 TO RESTORE ACCESS  
 TO EXISTING LPG STORAGE WELLS & BOAT SLIP  
 IN VENICE OIL & GAS FIELD  
 PLAQUEMINES PARISH, LOUISIANA



1/22/2020 - P:\Y-2019\2019.0181\DWG\PERMIT DRAWINGS\4TH REVISION PERMIT\2019.0181 BOAT ACCESS.DWG



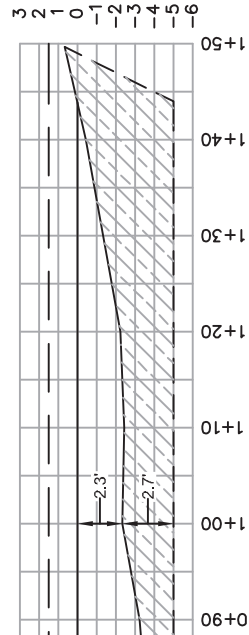
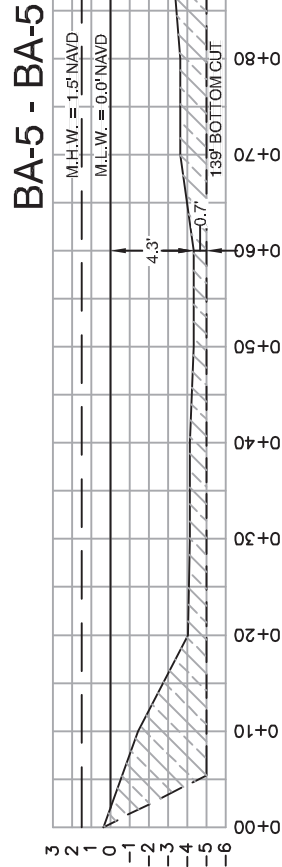
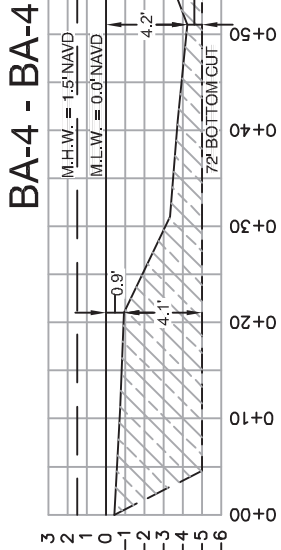
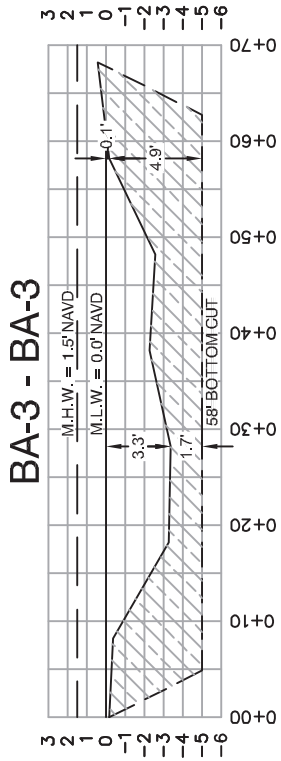
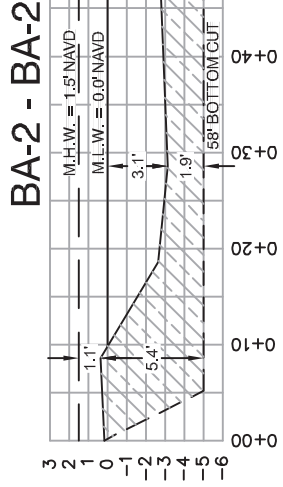
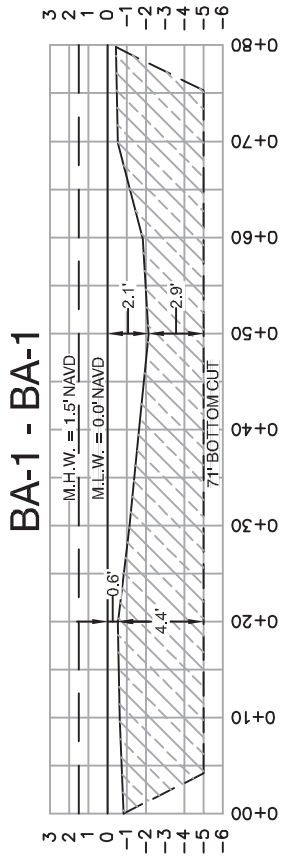
DRAWN BY:	ARC	APPROVED BY:	JMH
DATE:	01/17/2020	JOB NO.:	2019.0181
DRAWING NAME:	2019.0181 SLIP BOAT ACCESS.DWG		
SHEET NO.:	41	OF	45
PROJECTION:	LA-S		
GEO. DATUM:	NAD83   VERT. DATUM: NAVD88		
GRID UNITS:	US SURVEY FEET		
SCALE: 1" = 40'			

**BOAT ACCESS PLAN VIEW**

**TARGA MIDSTREAM SERVICES LLC**  
 PROPOSED MAINTENANCE DREDGING  
 TO RESTORE ACCESS TO  
 EXISTING LPG STORAGE WELLS & BOAT SLIP  
 IN THE VENICE OIL & GAS FIELD  
 PLAQUEMINES PARISH, LOUISIANA

REV. NO.:	00	REV. DATE:	--/--	REV. BY:	--
REVISION DESCRIPTION:					
-					

**T. BAKER SMITH**  
 A CENTURY OF SOLUTIONS  
 412 South Vern Ave, Houma, LA 70363  
 (985)868-1050 - tbsmith.com



HORIZONTAL  
SCALE IN FEET



VERTICAL  
SCALE IN FEET



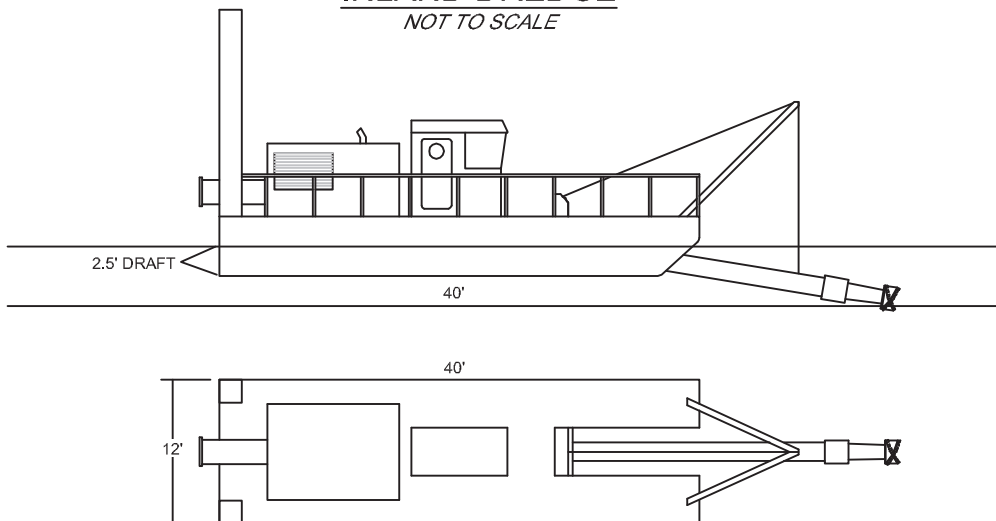
These drawings are to be used exclusively for the acquisition of regulatory permits only.	
<b>TBS</b>	<b>T. BAKER SMITH</b> A CENTURY OF SOLUTIONS 412 South Van Ave, Houma, LA 70363 (865)888-1050 - tbsmith.com
REV. NO: 00	REV. DATE: --/--/--
REV. BY: --	REV. BY: --

DRAWN BY: ARC	APPROVED BY: JMH
DATE: 01/17/2020	JOB NO: 2019.0181
DRAWING NAME: 2019.0181_SLIP.9.DWG	
SHEET NO: 42	OF 45
PROJECTION: LA-S	
GEO. DATUM: NAD83   VERT. DATUM: NAVD88	
GRID UNITS: US SURVEY FEET	
REVISION DESCRIPTION: _	

**BOAT ACCESS CROSS SECTIONS**  
**TARGA MIDSTREAM SERVICES LLC**  
 PROPOSED MAINTENANCE DREDGING  
 TO RESTORE ACCESS TO  
 EXISTING LPG STORAGE WELLS & BOAT SLIP  
 IN THE VENICE OIL & GAS FIELD  
 PLAQUEMINES PARISH, LOUISIANA

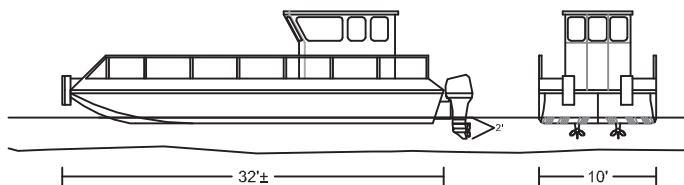
**INLAND DREDGE**

NOT TO SCALE



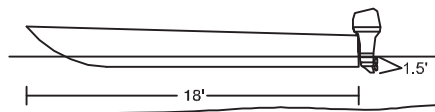
**DUAL OUTBOARD WORK BOAT**

NOT TO SCALE



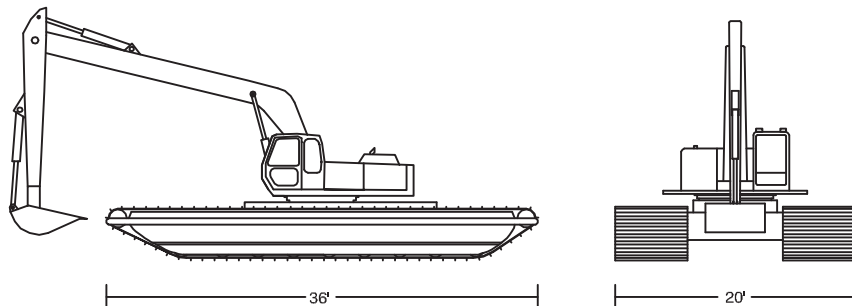
**OUTBOARD SKIFF**

NOT TO SCALE



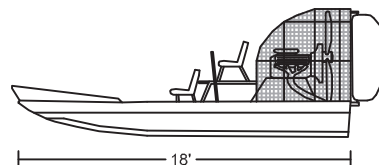
**MARSH EXCAVATOR**

NOT TO SCALE



**TYPICAL AIRBOAT**

NOT TO SCALE

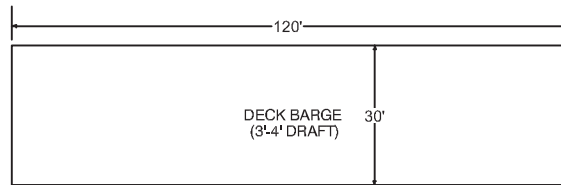
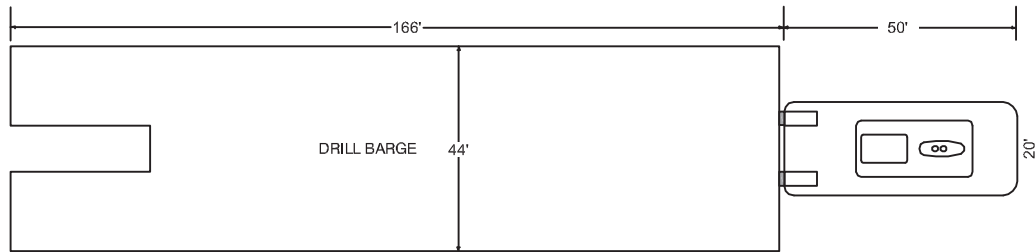
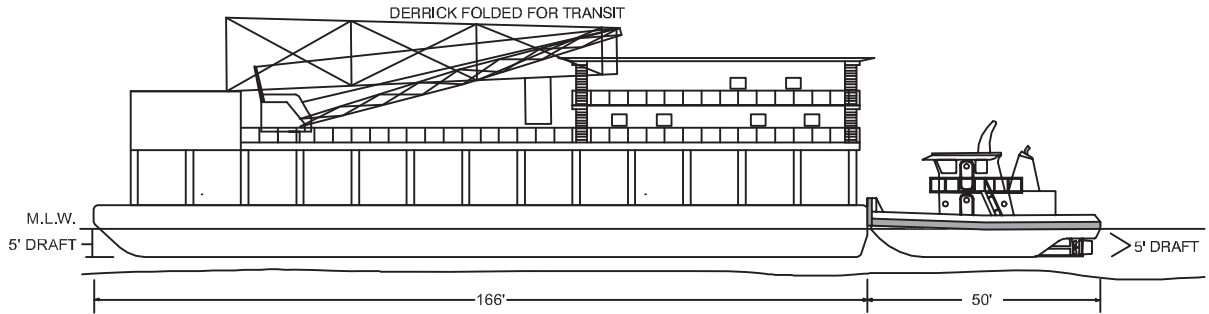


DRAWINGS ARE TO BE USED EXCLUSIVELY FOR THE ACQUISITION OF REGULATORY PERMITS.

DRAWN BY: JMH		APPROVED BY: JMH		<b>VESSELS &amp; EQUIPMENT</b> <b>TARGA MIDSTREAM SERVICES LLC</b> PROPOSED MAINTENANCE DREDGING TO RESTORE ACCESS TO EXISTING LPG WELLS & BOAT SLIP IN VENICE OIL & GAS FIELD PLAQUEMINES PARISH, LOUISIANA	
DATE: 1-16-20		JOB NO: 2019.0181			
DRAWING NAME: JMH EQUIPMENT 1.DWG					
SHEET NO: 43		OF 45			
PROJECTION: LOUISIANA SOUTH GEO. DATUM: NAD83   VERT. DATUM: NAVD88 GRID UNITS: US SURVEY FEET				REV. NO: 00   REV. DATE: --/--   REV. BY: -- REVISION DESCRIPTION: -	
SCALE: 1" = 40' 					
		<b>T. BAKER SMITH</b> A CENTURY OF SOLUTIONS 412 South Van Ave, Houma, LA 70363 (985)868-1050 - tbsmith.com			

TYPICAL SHALLOW DRAFT TUG, DRILL BARGE, & DECK BARGE

(Not to Scale)



DRAWINGS ARE TO BE USED EXCLUSIVELY FOR THE ACQUISITION OF REGULATORY PERMITS.

DRAWN BY: JMH		APPROVED BY: JMH		<b>VESSELS &amp; EQUIPMENT</b> <b>TARGA MIDSTREAM SERVICES LLC</b> PROPOSED MAINTENANCE DREDGING TO RESTORE ACCESS TO EXISTING LPG WELLS & BOAT SLIP IN VENICE OIL & GAS FIELD PLAQUEMINES PARISH, LOUISIANA	
DATE: 1-16-20		JOB NO: 2019.0181			
DRAWING NAME: JMH EQUIPMENT 2.DWG					
SHEET NO: 44 OF 45					
PROJECTION: LOUISIANA SOUTH GEO. DATUM: NAD83   VERT. DATUM: NAVD88 GRID UNITS: US SURVEY FEET					
SCALE: 1" = 100' 				REV. NO: 00    REV. DATE: --/--/--    REV. BY: --	
				REVISION DESCRIPTION: --	

1/21/2020 - P:\Y-2019\2019.0181\DWG\PERMIT DRAWINGS\4TH REVISION PERMIT\JMH EQUIPMENT 2.DWG



## PROJECT NOTES

THE PURPOSE OF THE PROPOSED PROJECT IS TO PROVIDE ACCESS TO 9 EXISTING WELL SITES AS REQUIRED BY A COMPLIANCE ORDER ISSUED BY THE STATE OF LOUISIANA, OFFICE OF CONSERVATION, DIVISION OF INJECTION AND MINING, AND TO CLEAN-OUT AN EXISTING ACCESS ROUTE TO AN EXISTING SMALL BOAT DOCK.

THE PROPOSED PROJECT REQUIRES THE USE OF A SMALL INLAND HYDRAULIC DREDGE TO DEEPEN THE CANALS AND SLIPS AS SHOWN IN THESE PERMIT DRAWINGS. THE USE OF THIS VESSEL WILL REQUIRE ADDITIONAL EQUIPMENT, INCLUDING TRACKED AMPHIBIOUS VEHICLES, WORKBOATS, AND AIRBOATS. THESE VESSELS AND EQUIPMENT ARE REPRESENTED IN THESE DRAWINGS TO THE BEST OF OUR KNOWLEDGE.

IN ORDER TO FULFILL THE COMPLIANCE ORDER, A WORKOVER RIG WILL BE REQUIRED TO REACH EACH WELL SITE. THE EQUIPMENT NECESSARY TO SUPPORT THIS ACTIVITY IS ALSO DEPICTED IN THESE DRAWINGS TO THE BEST OF OUR KNOWLEDGE.

PHASE 1 OF THIS PROJECT WILL BE THE MAINTENANCE DREDGING REQUIRED TO REACH EACH WELL SITE.

PHASE 2 OF THIS PROJECT WILL BE THE WELL INTERVENTION ACTIVITIES REQUIRED BY THE STATE OF LOUISIANA AND THUS PERFORMED USING THE DRILLING EQUIPMENT.

### ESTIMATED PROJECT IMPACTS:

#### **WELL LOCATION CANALS & SLIPS:**

- APPROXIMATELY 8.01 ACRES OF EXISTING WATER BOTTOMS ARE TO BE MAINTENANCE DREDGED.
- APPROXIMATELY 1.99 ACRES OF EXISTING BANKLINES IS TO BE MAINTENANCE DREDGED FROM THE PREVIOUSLY PERMITTED NETWORK OF CANALS AND SLIPS.
- APPROXIMATELY 61,800 CUBIC YARDS OF MATERIAL IS TO BE REMOVED FROM THESE DREDGE AREAS.
- APPROXIMATELY 1,553 CUBIC YARDS OF WATER BOTTOM MATERIAL IS TO BE EXCAVATED AND USED TO CREATE A BERM TO CONTAIN THE DREDGE MATERIAL AS IT IS PUMPED TO THE SITE. THIS EXCAVATION WILL BE FILLED WITH DREDGE MATERIAL.
- THE TRENCH WILL INITIALLY OCCUPY 0.35 ACRES, BUT WILL BE FILLED IN BY DREDGE MATERIAL.
- THIS DREDGE MATERIAL IS TO BE PUMPED TO A SITE SELECTED DUE WEST OF THE SLIPS AND USED IN A BENEFICIAL MANNER TO REBUILD AN AREA OF WETLANDS CONSISTING OF APPROXIMATELY 12.7 ACRES.

#### **ACCESS TO SMALL BOAT DOCK:**

- APPROXIMATELY 0.43 ACRES OF EXISTING WATER BOTTOMS ARE TO BE MAINTENANCE DREDGED.
- APPROXIMATELY 2,408 CUBIC YARDS OF MATERIAL IS TO BE REMOVED FROM THIS SITE.
- THIS DREDGE MATERIAL IS TO BE DISCHARGED INTO RED PASS.

## GENERAL NOTES

ALL STRUCTURES, FACILITIES, WELLS AND PIPELINES/FLOWLINES OCCURRING IN OPEN WATER AREAS, OR IN OILFIELD CANALS, OR SLIPS SHALL BE REMOVED WITHIN 120 DAYS OF ABANDONMENT OF 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 FOR SUCH ACTIVITIES.

AS-BUILT DRAWINGS SHALL BE SUBMITTED, IF REQUIRED, WITHIN 30 DAYS OF COMPLETION OF THIS PROJECT TO THE LOUISIANA DEPARTMENT OF NATURAL RESOURCES, COASTAL MANAGEMENT DIVISION AND OFFICE OF CONSERVATION, PIPELINE SAFETY DIVISION, POST OFFICE BOX 44487, BATON ROUGE, LA 70804-4487.

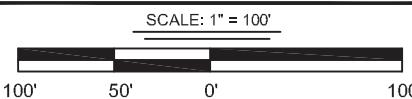
IN ORDER TO ENSURE THE SAFETY OF ALL PARTIES, THE PERMITTEE SHALL CONTACT LOUISIANA ONE CALL (1-800-272-3020) A MINIMUM OF 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY EXCAVATION (DIGGING, DREDGING, JETTING, ETC.) OR DEMOLITION ACTIVITY.

A RIGHT OF WAY GRANT WILL BE OBTAINED FROM THE LA STATE LAND OFFICE SHOULD ONE BE REQUIRED PRIOR TO ANY CONSTRUCTION ACTIVITIES.

## NOTES

**TARGA MIDSTREAM SERVICES LLC**  
**PROPOSED MAINTENANCE DREDGING TO PROVIDE ACCESS**  
**TO EXISTING LPG STORAGE WELLS & AN EXISTING SMALL BOAT SLIP**  
**VENICE OIL & GAS FIELD**  
**PLAQUEMINES PARISH, LOUISIANA**

DRAWN BY:	JMH	APPROVED BY:	JMH
DATE:	1/16/2020	JOB NO:	2019.0181
DRAWING NAME:	JMH NOTES.DWG		
SHEET NO:	<b>45</b>	OF	<b>45</b>
PROJECTION:	LA SOUTH		
GEO. DATUM:	NAD83   VERT. DATUM: NAVD88		
GRID UNITS:	US SURVEY FEET		



REV. NO:	00	REV. DATE:	--/--/--
REV. BY:		--	
REVISION DESCRIPTION:			
-			