

JOINT PUBLIC NOTICE

June 29, 2020

United States Army
Corps of Engineers
New Orleans District
Attn: Regulatory Branch
7400 Leake Ave.
New Orleans, Louisiana 70118-3651

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

Project Manager:
Johnny Duplantis
(504) 862-2548
Johnny.j.duplantis@usace.army.mil
Application #: MVN-2019-00896-WPP

Project Manager:
Elizabeth Hill
(225) 219-3225
WQC Application Number:
WQC 200624-01

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: Section 10 of the Rivers and Harbors Act of March 3, 1899 (30 Stat. 1151; 33 USC 403); and/or Section 404 of the Clean Water Act (86 Stat. 816; 33 USC 1344).

The application has also been mailed to the Louisiana Department of Environmental Quality (LDEQ), for a Water Quality Certification (WQC) in accordance with statutory authority contained in Louisiana Revised Statute 30:2074 A(3), and provisions of Section 401 of the Clean Water Act (P.L. 95-17).

PROPOSED REFINING PIPELINE PROJECT IN CALCASIEU PARISH

NAME OF APPLICANT: Targa Downstream, LLC, c/o: SWCA Environmental Consulting, 5745 Essen Lane, Suite 105, Baton Rouge, LA 70810.

LOCATION OF WORK: The project is centered at Longitude 30.1675951, Latitude - 93.3504972, located in Calcasieu Parish, Louisiana, as shown within the attached drawings.

CHARACTER OF WORK: The proposed construction of a 6" refining pipeline approximately 3.54-miles in length, to include a 4,370-ft HDD crossing under the Calcasieu River, from the Targa Downstream, LLC facility off of LA HWY 1133 to Targa Tank Farm facility south of Lake Charles, Calcasieu Parish, Louisiana. Approximately 1.2 acres of jurisdictional wetlands and/or waterbottoms would be impacted. The applicant proposes to purchase necessary credits from a Corps approved mitigation bank to mitigate the project's impacts to wetland resources, should a DA permit be issued.

The comment period on 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 submitted so as to be received before or by the last day of the comment period. Letters and/or comments concerning the subject Corps of Engineers permit application must reference the applicant's name and the Permit Application Number, and be emailed to the USACE project manager or forwarded to the Corps of Engineers at the

address above, **ATTENTION: REGULATORY BRANCH**. 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. Letters concerning the state Water Quality Certification must reference the applicant's name and the WQC Application number and be mailed to the LDEQ at the address above.

The application for this proposed project is on file with the LDEQ 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 possibility exists that the proposed work may damage or destroy presently unknown archeological, scientific, prehistorical, historical sites, or data. Copies of this public notice are being sent to the State Archeologist and State Historic Preservation Officer regarding potential impacts to cultural resources.

Our initial finding is that the proposed work would neither affect any species listed as endangered by the U.S. Departments of Interior or Commerce, nor affect any habitat designated as critical to the survival and recovery of any endangered species. Based on the Information and Planning Consultation for Endangered Species in Louisiana (IPaC), as signed January 27, 2020, between the U.S. Army Corps of Engineers, New Orleans and the U.S. Fish and Wildlife Service, it has been determined that the project is located in waters known to be utilized by the Western Manatee and determined that the activity is not likely to adversely affect this 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, alteration, and/or disturbance of 1.2 acres of EFH utilized by various life stages of red drum and penaeid shrimp. Our initial determination is that the proposed action would not have a substantial 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 LDEQ, before a Department of the Army permit is issued.

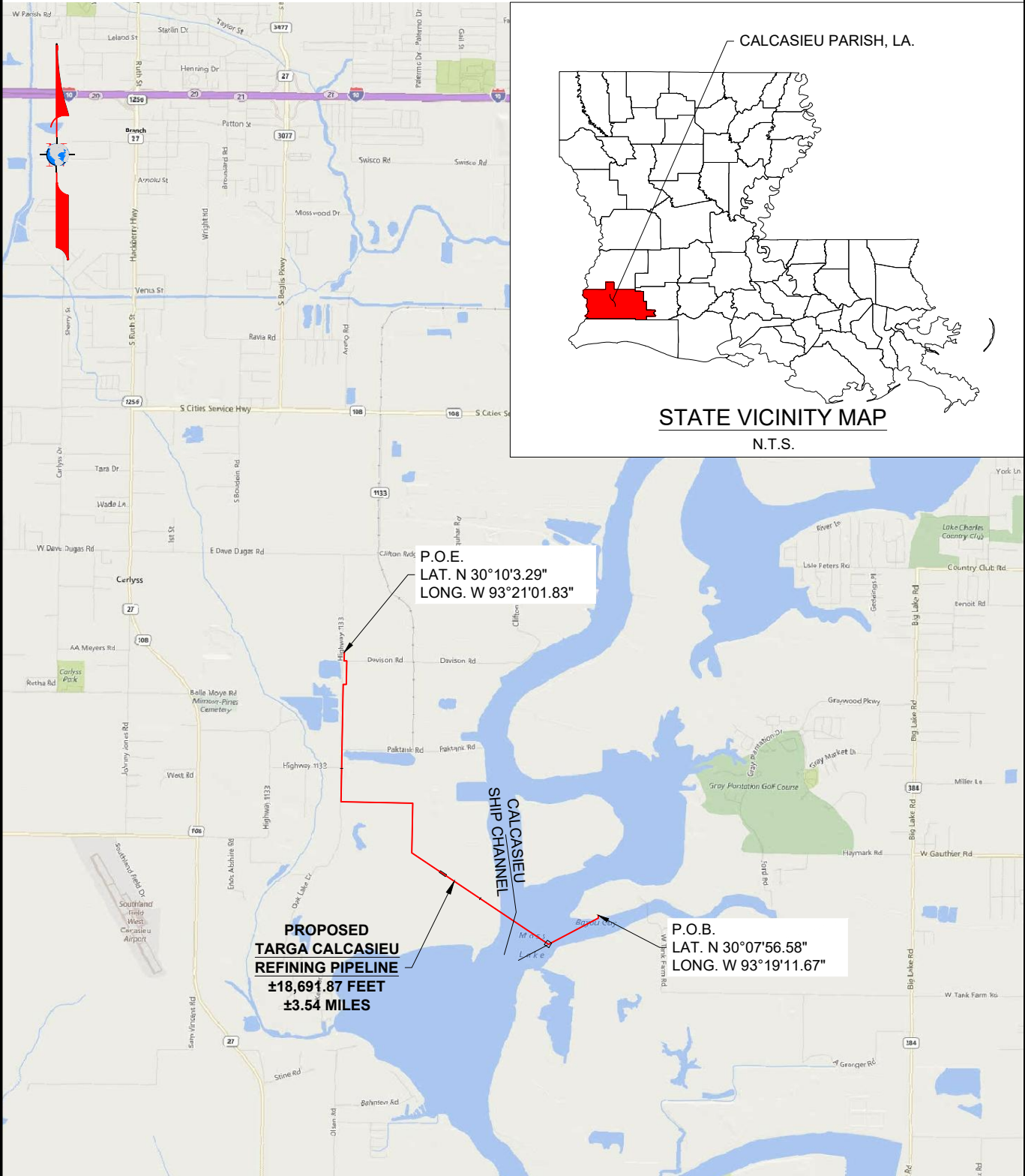
Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for public hearings shall state, with particularity, the reasons for holding a public hearing.

You are invited to communicate the information contained in this notice to any other parties whom you deem likely to have interest in the matter.

Darrell S. Barbara
Chief, Western Evaluation Section
Regulatory Branch

Enclosure

CALCASIEU PARISH, LOUISIANA




CLIENT:



TARGA

TARGA - CALCASIEU REFINING PIPELINE - PROJECT VICINITY MAP
PROPOSED CALCASIEU REFINING PIPELINE
CALCASIEU PARISH, LOUISIANA

SURVEYED BY:



LW Survey Co.
1602 W. Pinhook Road, Suite 200
Lafayette, LA 70608
TX-Firm # 10194133

DRAWN BY: JMP	DRAWN DATE: 06/10/2019	CHECK'D BY: SPM	PLOT DATE: 11/07/19
DWG. NO. TARGA - CALCASIEU REFINING PIPELINE - C.O.E.		REV. 0	SHEET: 1 OF 6

CALCASIEU PARISH, LOUISIANA

SECTION 25, T10S-R10W

EXHIBIT "B"

CENTERLINE DESCRIPTION:

A STRIP OF LAND LOCATED IN THAT PARCEL OF LAND CONVEYED TO CITGO PETROLEUM CORPORATION, RECORDED IN BOOK 3210, PAGE 633, CALCASIEU PARISH CLERK OF COURT'S, STATE OF LOUISIANA, LYING WITHIN SECTION 25, TOWNSHIP 10 SOUTH, RANGE 10 WEST, BEING A 30 FOOT WIDE EASEMENT, BEING 15 FEET ALONG EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE:

COMMENCING AT THE NORTHWEST CORNER OF SECTION 25 BEING A FOUND NAIL IN THE ROAD [N: 607,255.33', E: 2,643,269.29' LAT. N 30°09'15.84", LONG. W 93°21'02.80"] THENCE S 01°44'05" E, A DISTANCE OF 1,994.80 FEET TO THE SOUTH LINE OF SAID PARCEL OF LAND AND THE **POINT OF BEGINNING** OF THIS HEREIN DESCRIBED CENTERLINE;

THENCE N 01°37'09" E, A DISTANCE OF 550.31 FEET TO A POINT;

THENCE N 00°05'25" W, A DISTANCE OF 850.08 FEET TO A POINT;

THENCE N 48°44'01" E, A DISTANCE OF 78.00 FEET TO A POINT;

THENCE N 46°41'47" W, A DISTANCE OF 62.75 FEET TO THE **POINT OF END** OF THIS HEREIN DESCRIBED CENTERLINE;

THE TOTAL LENGTH OF THE ABOVE DESCRIBED CENTERLINE IS 1,541.14 FEET (93.40 RODS), CONTAINING AN AREA OF 46,234.32 SQUARE FEET OR 1.06 ACRES OF LAND, MORE OR LESS.

NOTES:

1. THIS EXHIBIT WAS PREPARED WITHOUT THE BENEFIT OF A TITLE COMMITMENT AND THEREFORE LW SURVEY CO. HAS NOT RESEARCHED OR SHOWN ANY OTHER EASEMENTS, RIGHTS-OF-WAY, VARIANCES AND OR AGREEMENTS OF RECORD EXCEPT AS SHOWN HEREIN.

2. THE LOCATION OF THE EASEMENT SHOWN HEREIN IS BASED ON THE EXISTING LOCATION OF THE PIPELINE. THE EXACT LOCATION OF THE CENTERLINE OF THE EASEMENT HERETOFORE CONVEYED SHALL BE ADJUSTED TO MATCH THE AS-CONSTRUCTED LOCATION. THIS EXHIBIT IS NOT A LAND SURVEY PLAT OR IMPROVEMENT SURVEY PLAT AND IS NOT TO BE RELIED UPON FOR THE ESTABLISHMENT OF FENCES, BUILDINGS, OR OTHER FUTURE IMPROVEMENTS.

3. THE BEARINGS SHOWN ARE BASED ON THE LOUISIANA STATE PLANE COORDINATE STATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983, WITH 2011 ADJUSTMENT.

4. THIS SURVEY MEETS THE APPLICABLE "STANDARDS OF PRACTICE" FOR ROUTE SURVEY AS SET FORTH BY THE LOUISIANA BOARD OF PROFESSIONAL SURVEYORS.



5. UNDERGROUND UTILITIES WERE NOT LOCATED AS A PART OF THIS SURVEY. ABOVE GROUND EVIDENCE OF UTILITIES SHOWN HEREON.

6. ENTIRE LOT NOT SHOWN FOR CLARITY.

PRELIMINARY

This document shall not be recorded for any purpose and shall not be used or viewed or relied upon as a final survey document.

REV.	DATE	DESCRIPTION	BY	APPRVD
A	05/09/19	FOR REVIEW	JMP	SPM
B	06/18/19	UPDATED PER CLIENT	JMB	SPM

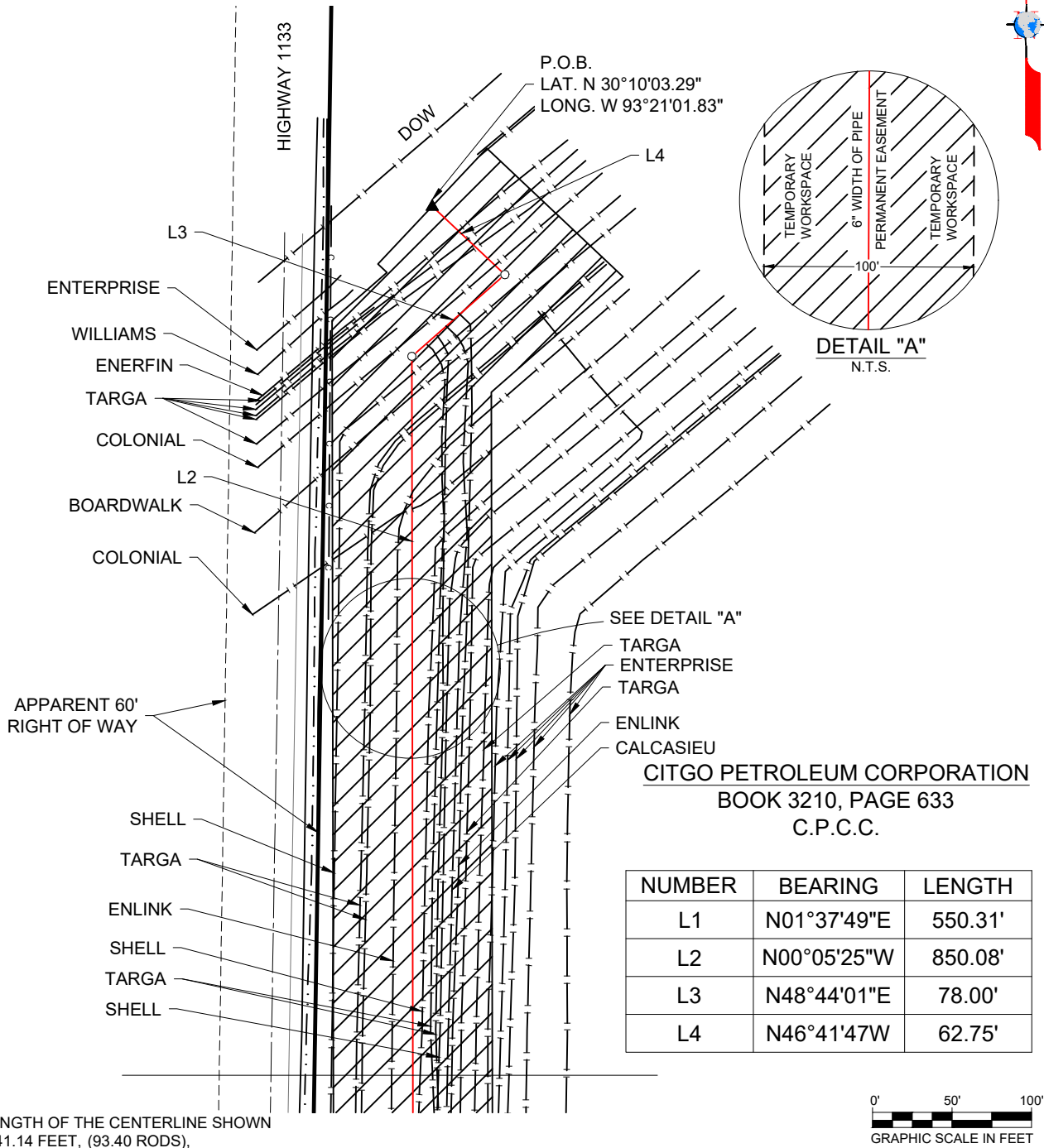
		
TARGA CALCASIEU REFINING PIPELINE CITGO PETROLEUM CORPORATION CALCASIEU PARISH, LOUISIANA		
SCALE: N.T.S.	DWG. NO. CITGO PETROLEUM CORPORATION	DWN. BY: JMP
 L.W. SURVEY CO. 1802 W. PINHOOK RD., SUITE 200 LAFAYETTE, LA 70708 337-210-5858 COA NO. LB8299		PROJECT: CALCASIEU REFINING PIPELINE
		SHEET: 1 of 4

R:\Lafayette\52809 - Targa - Calcasieu Refining Pipeline\Drawings\Certified Plats\TARGA CALCASIEU - CITGO PETROLEUM_REV_B.dwg

CALCASIEU PARISH, LOUISIANA

SECTION 25, T10S-R10W

EXHIBIT "B"



THE TOTAL LENGTH OF THE CENTERLINE SHOWN HEREIN IS 1,541.14 FEET, (93.40 RODS),

THE TOTAL AREA OF THE 6' WIDTH OF PIPE PERMANENT EASEMENT SHOWN HEREIN IS 770.57 SQUARE FEET, (0.02 ACRES),

THE TOTAL AREA OF THE 100' TEMPORARY WORKSPACE SHOWN HEREIN IS 153,331.78 SQUARE FEET, (3.52 ACRES).

- NOTES:**
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 - THE BEARINGS SHOWN ARE BASED ON THE LOUISIANA STATE PLANE COORDINATE STATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983, WITH 2011 ADJUSTMENT.
 - THIS SURVEY MEETS THE APPLICABLE "STANDARDS OF PRACTICE" FOR ROUTE SURVEY AS SET FORTH BY THE LOUISIANA BOARD OF PROFESSIONAL SURVEYORS.
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 - ENTIRE LOT NOT SHOWN FOR CLARITY.

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- LEGEND**
- C.P.C.C. CALCASIEU PARISH CLERK OF COURTS
 - P.O.C. POINT OF COMMENCEMENT
 - P.O.B. POINT OF BEGINNING
 - P.O.E. POINT OF END
 - EASEMENT CENTERLINE
 - ▨ TEMPORARY WORKSPACE
 - ▩ ADDITIONAL TEMPORARY WORKSPACE
 - S SURVEY LINE
 - P PROPERTY LINE
 - EXISTING PIPELINE
 - FOUND PROPERTY CORNER AS NOTED
 - ▲ PROPOSED CENTERLINE/DEED LINE INTERSECTION
 - PROPOSED CENTERLINE VERTICE. THIS SYMBOL DOES NOT REPRESENT A MONUMENTED LINE. IT ONLY DEPICTS A CHANGE IN DIRECTION.

R:\Lafayette\52809 - Targa - Calcasieu Refining Pipeline Drawings\Certified Plats\TARGA CALCASIEU - CITGO PETROLEUM_REV B.dwg



TARGA CALCASIEU REFINING PIPELINE

CITGO PETROLEUM CORPORATION

CALCASIEU PARISH, LOUISIANA

REV.	DATE	DESCRIPTION	BY	APPR'D
1	10/14/19	FOR REVIEW	BCW	SPM

SCALE: 1" = 100'

DWG. NO. CITGO PETROLEUM CORPORATION

DWN. BY: JMP

L.W. SURVEY CO.
1602 W. PINHOOK RD., SUITE 200
LAFAYETTE, LA 70708
337-210-5565
COA NO. LB8299

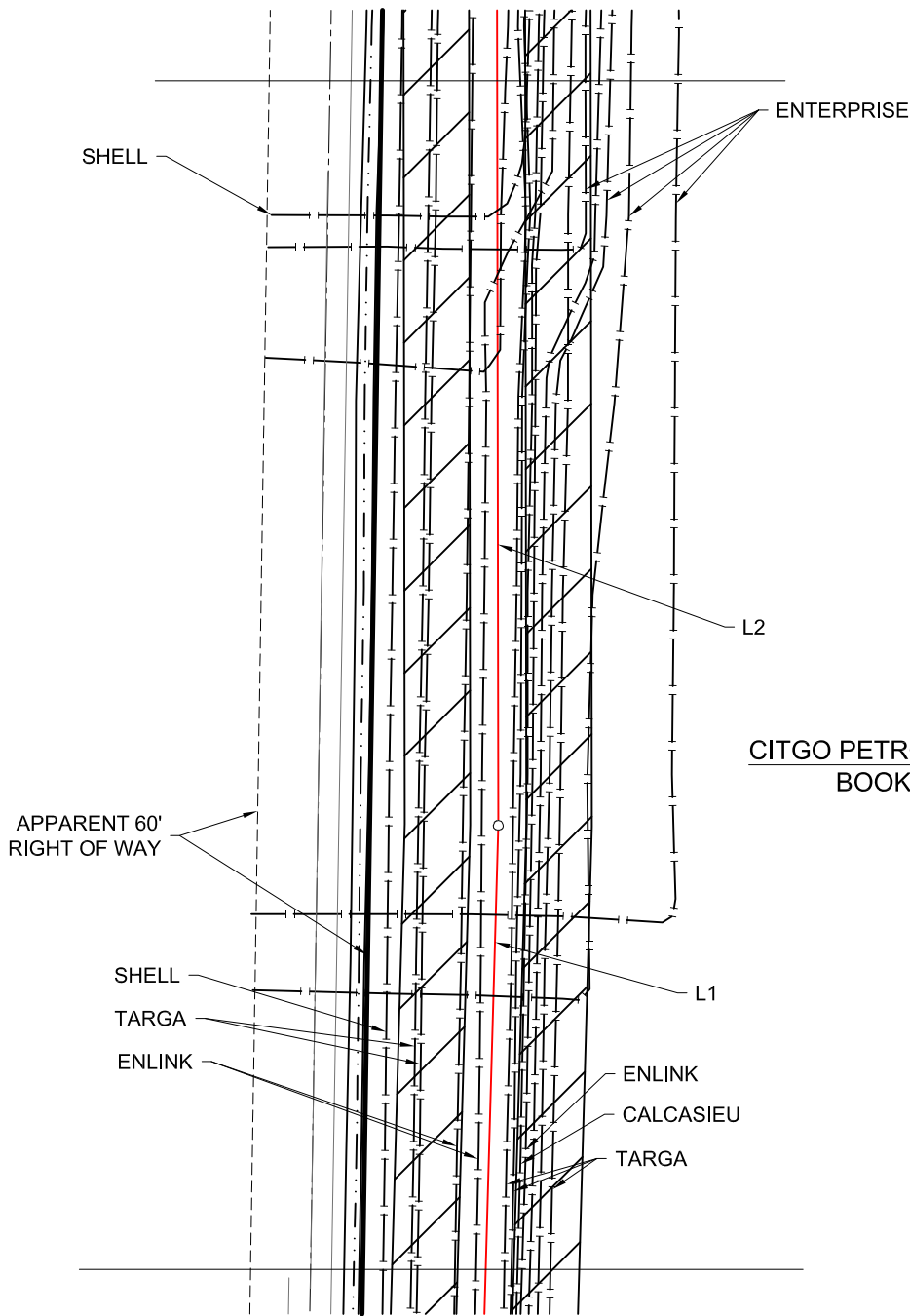
PROJECT:
CALCASIEU REFINING PIPELINE

SHEET:
2 OF 4

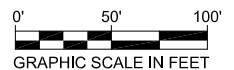
CALCASIEU PARISH, LOUISIANA

SECTION 25, T10S-R10W

EXHIBIT "B"



CITGO PETROLEUM CORPORATION
BOOK 3210, PAGE 633
C.P.C.C.



LEGEND


- C.P.C.C. CALCASIEU PARISH CLERK OF COURTS
- P.O.C. POINT OF COMMENCEMENT
- P.O.B. POINT OF BEGINNING
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REV.	DATE	DESCRIPTION	BY	APPRVD
A	05/09/19	FOR REVIEW	JMP	SPM
B	06/18/19	UPDATED PER CLIENT	JMB	SPM



TARGA

TARGA CALCASIEU REFINING PIPELINE


CITGO PETROLEUM CORPORATION

CALCASIEU PARISH, LOUISIANA

SCALE: 1" = 100'

DWG. NO. CITGO PETROLEUM CORPORATION

DWN. BY: JMP



L.W. SURVEY CO.
1802 W. PINHOOK RD., SUITE 200
LAFAYETTE, LA 70708
337-210-5955
COA NO. LB8299

PROJECT:
CALCASIEU REFINING PIPELINE

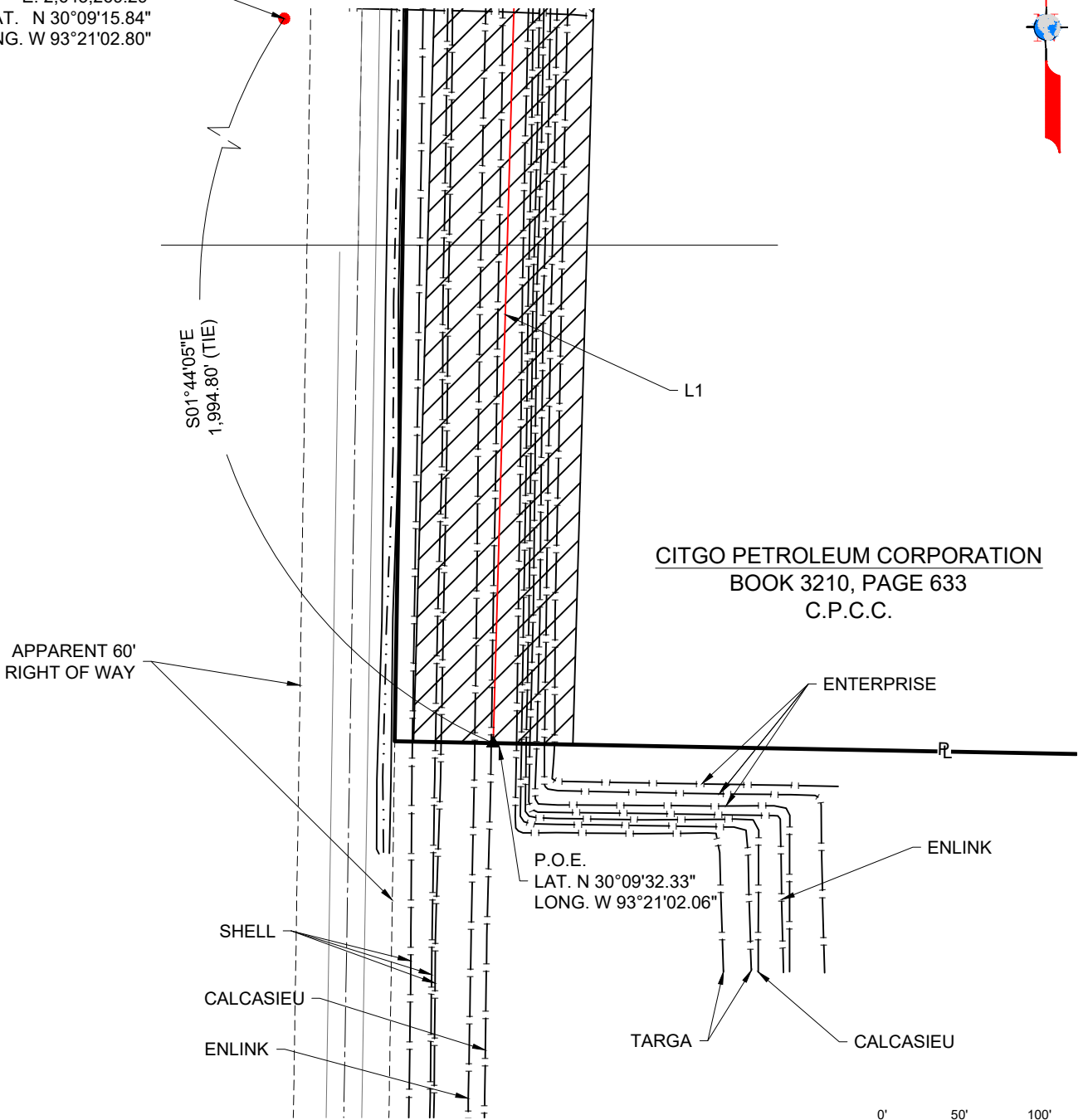
SHEET:
3 OF 4

CALCASIEU PARISH, LOUISIANA

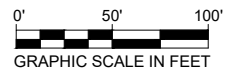
P.O.C.
 NW CORNER SEC. 25
 FND. NAIL IN ROAD
 N: 607,255.33'
 E: 2,643,269.29'
 LAT. N 30°09'15.84"
 LONG. W 93°21'02.80"

SECTION 25, T10S-R10W

EXHIBIT "B"



CITGO PETROLEUM CORPORATION
 BOOK 3210, PAGE 633
 C.P.C.C.



LEGEND

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- P.O.B. POINT OF BEGINNING
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- ▲ PROPOSED CENTERLINE/DEED LINE INTERSECTION
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TARGA CALCASIEU REFINING PIPELINE

CITGO PETROLEUM CORPORATION

CALCASIEU PARISH, LOUISIANA

REV.	DATE	DESCRIPTION	BY	APPRVD
1	10/14/19	FOR REVIEW	BCW	SPM

SCALE: 1" = 100'

DWG. NO. CITGO PETROLEUM CORPORATION

DWN. BY: JMP



L.W. SURVEY CO.
 1602 W. PINHOOK RD., SUITE 200
 LAFAYETTE, LA 70708
 337-210-5555
 COA NO. LB8299

PROJECT:

CALCASIEU REFINING PIPELINE

SHEET:

4 OF 4

CALCASIEU PARISH, LOUISIANA

SECTION 25, T10S-R10W

EXHIBIT "B"

CENTERLINE DESCRIPTION:

A STRIP OF LAND LOCATED IN THAT PARCEL OF LAND CONVEYED TO TARGA DOWNSTREAM, LLC, RECORDED IN BOOK 2611, PAGE 254, CALCASIEU PARISH CLERK OF COURT'S, STATE OF LOUISIANA, LYING WITHIN SECTION 25, TOWNSHIP 10 SOUTH, RANGE 10 WEST, BEING A 30 FOOT WIDE EASEMENT, BEING 15 FEET ALONG EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE:

COMMENCING AT THE SOUTHWEST CORNER OF SECTION 25 BEING A FOUND NAIL THE ROAD [N: 607,255.33', E: 2,643,269.29' LAT. N 30°09'15.84", LONG. W 93°21'02.80"] THENCE N 08°57'00" E, A DISTANCE OF 1,362.77 FEET TO THE EAST LINE OF SAID PARCEL OF LAND AND THE **POINT OF BEGINNING** OF THIS HEREIN DESCRIBED CENTERLINE;

THENCE N 00°58'59" E, A DISTANCE OF 6.38 FEET TO A POINT;

THENCE N 89°01'01" W, A DISTANCE OF 93.94 FEET TO A POINT;

THENCE N 00°58'59" E, A DISTANCE OF 317.93 FEET TO A POINT;

THENCE N 89°01'01" W, A DISTANCE OF 26.61 FEET TO A POINT;

THENCE N 01°37'49" E, A DISTANCE OF 1,639.26 FEET TO THE NORTH LINE OF SAID PARCEL OF LAND AND THE **POINT OF END** OF THIS HEREIN DESCRIBED CENTERLINE;

THE TOTAL LENGTH OF THE ABOVE DESCRIBED CENTERLINE IS 2,084.12 FEET (126.31 RODS), CONTAINING AN AREA OF 63,423.49 SQUARE FEET OR 1.46 ACRES OF LAND, MORE OR LESS.

NOTES:

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PRELIMINARY

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TARGA

TARGA CALCASIEU REFINING PIPELINE

TARGA DOWNSTREAM, LLC.

CALCASIEU PARISH, LOUISIANA

REV.	DATE	DESCRIPTION	BY	APPRVD
A	5/17/19	FOR REVIEW	BCW	SPM
B	06/18/19	UPDATED PER CLIENT	JMB	SPM

SCALE: N.T.S.

DWG. NO. TARGA DOWNSTREAM, LLC.

DWN. BY: JMP



L.W. SURVEY CO.
1802 W. PINHOOK RD., SUITE 200
LAFAYETTE, LA 70708
337-210-5858
COA NO. LB8299

PROJECT:
CALCASIEU REFINING PIPELINE

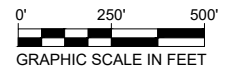
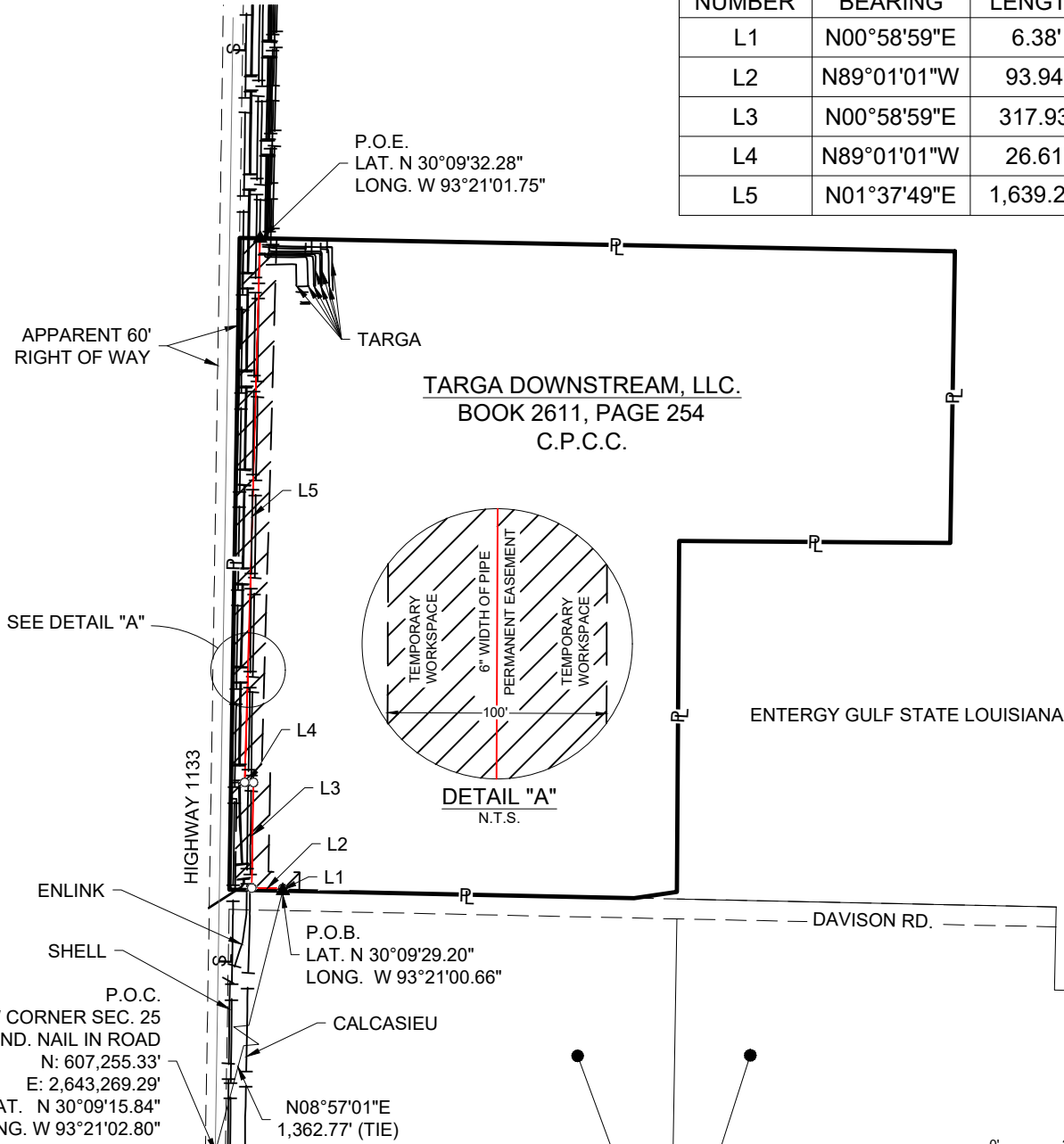
SHEET:
1 OF 2

CALCASIEU PARISH, LOUISIANA

SECTION 25, T10S-R10W

EXHIBIT "B"

NUMBER	BEARING	LENGTH
L1	N00°58'59"E	6.38'
L2	N89°01'01"W	93.94'
L3	N00°58'59"E	317.93'
L4	N89°01'01"W	26.61'
L5	N01°37'49"E	1,639.26'



THE TOTAL LENGTH OF THE CENTERLINE SHOWN HEREIN IS 2,084.12 FEET, (126.31 RODS),

THE TOTAL AREA OF THE 6" WIDTH OF PIPE PERMANENT EASEMENT SHOWN HEREIN IS 1,042.06 SQUARE FEET, (0.02 ACRES),

THE TOTAL AREA OF THE 100' TEMPORARY WORKSPACE SHOWN HEREIN IS 200,472.84 SQUARE FEET, (4.60 ACRES).

PRELIMINARY

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LEGEND

- C.P.C.C. CALCASIEU PARISH CLERK OF COURT'S
- P.O.C. POINT OF COMMENCEMENT
- P.O.B. POINT OF BEGINNING
- P.O.E. POINT OF END
- EASEMENT CENTERLINE
- ▨ TEMPORARY WORKSPACE
- ▩ ADDITIONAL TEMPORARY WORKSPACE
- SURVEY LINE
- PROPERTY LINE
- EXISTING PIPELINE
- FOUND PROPERTY CORNER AS NOTED
- ▲ PROPOSED CENTERLINE/DEED LINE INTERSECTION
- PROPOSED CENTERLINE VERTICE. THIS SYMBOL DOES NOT REPRESENT A MONUMENTED LINE. IT ONLY DEPICTS A CHANGE IN DIRECTION.

NOTES:

- THIS EXHIBIT WAS PREPARED WITHOUT THE BENEFIT OF A TITLE COMMITMENT AND THEREFORE LW SURVEY CO. HAS NOT RESEARCHED OR SHOWN ANY OTHER EASEMENTS, RIGHTS-OF-WAY, VARIANCES AND OR AGREEMENTS OF RECORD EXCEPT AS SHOWN HEREIN.
- THE LOCATION OF THE EASEMENT SHOWN HEREIN IS BASED ON THE EXISTING LOCATION OF THE PIPELINE. THE EXACT LOCATION OF THE CENTERLINE OF THE EASEMENT HERETOFORE CONVEYED SHALL BE ADJUSTED TO MATCH THE AS-CONSTRUCTED LOCATION. THIS EXHIBIT IS NOT A LAND SURVEY PLAT OR IMPROVEMENT SURVEY PLAT AND IS NOT TO BE RELIED UPON FOR THE ESTABLISHMENT OF FENCES, BUILDINGS, OR OTHER FUTURE IMPROVEMENTS.
- THE BEARINGS SHOWN ARE BASED ON THE LOUISIANA STATE PLANE COORDINATE STATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983, WITH 2011 ADJUSTMENT.
- THIS SURVEY MEETS THE APPLICABLE "STANDARDS OF PRACTICE" FOR ROUTE SURVEY AS SET FORTH BY THE LOUISIANA BOARD OF PROFESSIONAL SURVEYORS.
- UNDERGROUND UTILITIES WERE NOT LOCATED AS A PART OF THIS SURVEY. ABOVE GROUND EVIDENCE OF UTILITIES SHOWN HEREON.

R:\Lafayette\52809 - Targa - Calcasieu Refining Pipeline Drawings\Certified Plats\TARGA CALCASIEU - TARGA DOWNSTREAM_REV B.dwg



TARGA CALCASIEU REFINING PIPELINE

TARGA DOWNSTREAM, LLC.

CALCASIEU PARISH, LOUISIANA

SCALE: 1" = 500'	DWG. NO. TARGA DOWNSTREAM, LLC.	DWN. BY: JMP
	L.W. SURVEY CO. 1602 W. PINHOOK RD., SUITE 200 LAFAYETTE, LA 70708 337-210-8965 COA NO. LB8289	PROJECT: CALCASIEU REFINING PIPELINE
		SHEET: 2 of 2

REV.	DATE	DESCRIPTION	BY	APPR'VD
1	10/14/19	FOR REVIEW	BCW	SPM

CALCASIEU PARISH, LOUISIANA

SECTIONS 25 & 36, T10S-R10W

EXHIBIT "B"

CENTERLINE DESCRIPTION:

A STRIP OF LAND LOCATED IN THAT PARCEL OF LAND CONVEYED TO CONOCOPHILLIPS COMPANY, RECORDED IN BOOK 1720, PAGE 68, CALCASIEU PARISH CLERK OF COURT'S, STATE OF LOUISIANA, LYING WITHIN SECTIONS 25 AND 36, TOWNSHIP 10 SOUTH, RANGE 10 WEST, BEING A 30 FOOT WIDE EASEMENT, BEING 15 FEET ALONG EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE:

COMMENCING AT THE SOUTHWEST CORNER OF SECTION 25 BEING A FOUND NAIL IN THE ROAD [N: 607,255.33', E: 2,643,269.29' LAT. N 30°09'15.84", LONG. W 93°21'02.80"] THENCE S 01°00'42" E, A DISTANCE OF 1,981.86 FEET TO THE SOUTH LINE OF SAID PARCEL OF LAND AND THE **POINT OF BEGINNING** OF THIS HEREIN DESCRIBED CENTERLINE;

THENCE N 00°58'59" E, A DISTANCE OF 2,453.06 FEET TO A POINT;

THENCE S 89°01'01" E, A DISTANCE OF 119.90 FEET TO A POINT;

THENCE N 00°58'59" E, A DISTANCE OF 817.03 FEET TO THE NORTH LINE OF SAID PARCEL OF LAND AND THE **POINT OF END** OF THIS HEREIN DESCRIBED CENTERLINE;

THE TOTAL LENGTH OF THE ABOVE DESCRIBED CENTERLINE IS 3,389.98 FEET (205.44 RODS), CONTAINING AN AREA OF 103,505.12 SQUARE FEET OR 2.38 ACRES OF LAND, MORE OR LESS.

NOTES:

1. THIS EXHIBIT WAS PREPARED WITHOUT THE BENEFIT OF A TITLE COMMITMENT AND THEREFORE LW SURVEY CO. HAS NOT RESEARCHED OR SHOWN ANY OTHER EASEMENTS, RIGHTS-OF-WAY, VARIANCES AND OR AGREEMENTS OF RECORD EXCEPT AS SHOWN HEREIN.

2. THE LOCATION OF THE EASEMENT SHOWN HEREIN IS BASED ON THE EXISTING LOCATION OF THE PIPELINE. THE EXACT LOCATION OF THE CENTERLINE OF THE EASEMENT HERETOFORE CONVEYED SHALL BE ADJUSTED TO MATCH THE AS-CONSTRUCTED LOCATION. THIS EXHIBIT IS NOT A LAND SURVEY PLAT OR IMPROVEMENT SURVEY PLAT AND IS NOT TO BE RELIED UPON FOR THE ESTABLISHMENT OF FENCES, BUILDINGS, OR OTHER FUTURE IMPROVEMENTS.

3. THE BEARINGS SHOWN ARE BASED ON THE LOUISIANA STATE PLANE COORDINATE STATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983, WITH 2011 ADJUSTMENT.

4. THIS SURVEY MEETS THE APPLICABLE "STANDARDS OF PRACTICE" FOR ROUTE SURVEY AS SET FORTH BY THE LOUISIANA BOARD OF PROFESSIONAL SURVEYORS.

5. UNDERGROUND UTILITIES WERE NOT LOCATED AS A PART OF THIS SURVEY. ABOVE GROUND EVIDENCE OF UTILITIES SHOWN HEREON.

PRELIMINARY

This document shall not be recorded for any purpose and shall not be used or viewed or relied upon as a final survey document.

 TARGA			
TARGA CALCASIEU REFINING PIPELINE CONOCOPHILLIPS COMPANY CALCASIEU PARISH, LOUISIANA			
SCALE: N.T.S.	DWG. NO. CONOCOPHILLIPS COMPANY	DWN. BY: JMP	
 L.W. SURVEY CO. 1802 W. PINHOOK RD., SUITE 200 LAFAYETTE, LA 70708 337-210-5858 COA NO. LB8299		PROJECT: CALCASIEU REFINING PIPELINE	SHEET: 1 OF 2

R:\Lafayette\52809 - Targa - Calcasieu Refining Pipeline\Drawings\Certified Plats\TARGA CALCASIEU - CONOCOPHILLIPS_REV B.dwg

REV.	DATE	DESCRIPTION	BY	APPR'D
A	5/17/19	FOR REVIEW	BCW	SPM
B	06/18/19	UPDATED PER CLIENT	JMB	SPM

CALCASIEU PARISH, LOUISIANA

SECTION 36, T10S-R10W

EXHIBIT "B"

CENTERLINE DESCRIPTION:

A STRIP OF LAND LOCATED IN THAT PARCEL OF LAND CONVEYED TO WESTLAKE POLYMERS, LP., RECORDED IN BOOK 2255, PAGE 620, CALCASIEU PARISH CLERK OF COURT'S, STATE OF LOUISIANA, LYING WITHIN SECTION 36, TOWNSHIP 10 SOUTH, RANGE 10 WEST, BEING A 30 FOOT WIDE EASEMENT, BEING 15 FEET ALONG EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE:

COMMENCING AT THE NORTHWEST CORNER OF SECTION 36 BEING A FOUND NAIL IN THE ROAD [N: 607,255.33', E: 2,643,269.29' LAT. N 30°09'15.84", LONG. W 93°21'02.80"] THENCE S 26°15'38" E, A DISTANCE OF 6,007.08 FEET TO THE SOUTH LINE OF SAID PARCEL OF LAND AND THE **POINT OF BEGINNING** OF THIS HEREIN DESCRIBED CENTERLINE;

THENCE N 01°04'36" E, A DISTANCE OF 1,408.03 FEET TO A POINT;

THENCE N 88°39'46" W, A DISTANCE OF 2,683.86 FEET TO A POINT;

THENCE N 00°58'50" E, A DISTANCE OF 1,905.43 FEET TO THE NORTH LINE OF SAID PARCEL OF LAND AND THE **POINT OF END** OF THIS HEREIN DESCRIBED CENTERLINE;



THE TOTAL LENGTH OF THE ABOVE DESCRIBED CENTERLINE IS 5,996.64 FEET (363.43 RODS), CONTAINING AN AREA OF 179,839.20 SQUARE FEET OR 4.13 ACRES OF LAND, MORE OR LESS.

NOTES:

1. THIS EXHIBIT WAS PREPARED WITHOUT THE BENEFIT OF A TITLE COMMITMENT AND THEREFORE LW SURVEY CO. HAS NOT RESEARCHED OR SHOWN ANY OTHER EASEMENTS, RIGHTS-OF-WAY, VARIANCES AND OR AGREEMENTS OF RECORD EXCEPT AS SHOWN HEREIN.
2. THE LOCATION OF THE EASEMENT SHOWN HEREIN IS BASED ON THE EXISTING LOCATION OF THE PIPELINE. THE EXACT LOCATION OF THE CENTERLINE OF THE EASEMENT HERETOFORE CONVEYED SHALL BE ADJUSTED TO MATCH THE AS-CONSTRUCTED LOCATION. THIS EXHIBIT IS NOT A LAND SURVEY PLAT OR IMPROVEMENT SURVEY PLAT AND IS NOT TO BE RELIED UPON FOR THE ESTABLISHMENT OF FENCES, BUILDINGS, OR OTHER FUTURE IMPROVEMENTS.
3. THE BEARINGS SHOWN ARE BASED ON THE LOUISIANA STATE PLANE COORDINATE STATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983, WITH 2011 ADJUSTMENT.
4. THIS SURVEY MEETS THE APPLICABLE "STANDARDS OF PRACTICE" FOR ROUTE SURVEY AS SET FORTH BY THE LOUISIANA BOARD OF PROFESSIONAL SURVEYORS.
5. UNDERGROUND UTILITIES WERE NOT LOCATED AS A PART OF THIS SURVEY. ABOVE GROUND EVIDENCE OF UTILITIES SHOWN HEREON.

PRELIMINARY

This document shall not be recorded for any purpose and shall not be used or viewed or relied upon as a final survey document.

 TARGA			
<p>TARGA CALCASIEU REFINING PIPELINE</p> <p>WESTLAKE POLYMERS, LP.</p> <p>CALCASIEU PARISH, LOUISIANA</p>			
SCALE: N.T.S.	DWG. NO. WESTLAKE POLYMERS, LP.	DWN. BY: JMP	
	L.W. SURVEY CO. 1802 W. PINHOOK RD., SUITE 200 LAFAYETTE, LA 70708 337-210-5955 COA NO. LB8299	PROJECT: CALCASIEU REFINING PIPELINE	SHEET: 1 OF 2

R:\Lafayette\52809 - Targa - Calcasieu Refining Pipeline\Drawings\Certified Plats\TARGA CALCASIEU - WESTLAKE POLYMERS_REV B.dwg

REV.	DATE	DESCRIPTION	BY	APPRVD
A	5/16/19	FOR REVIEW	BCW	SPM
B	06/18/19	UPDATED PER CLIENT	JMB	SPM

CALCASIEU PARISH, LOUISIANA

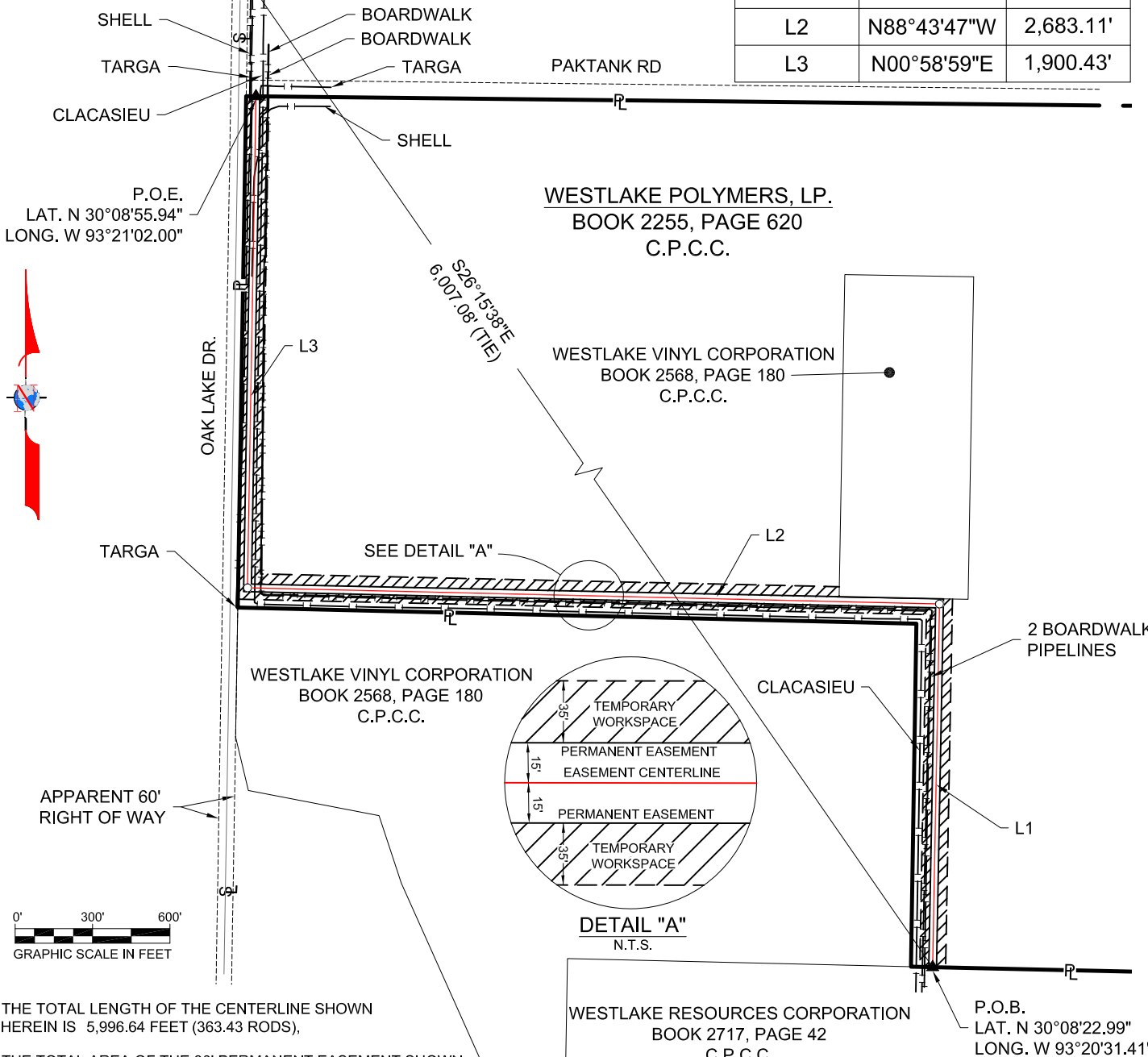
SECTION 36, T10S-R10W

EXHIBIT "B"

NUMBER	BEARING	LENGTH
L1	N01°04'14"E	1,416.16'
L2	N88°43'47"W	2,683.11'
L3	N00°58'59"E	1,900.43'

P.O.C.
NW CORNER SEC. 36
FND. NAIL IN ROAD
N: 607,255.33'
E: 2,643,269.29'
LAT. N 30°09'15.84"
LONG. W 93°21'02.80"

CONOCOPHILLIPS COMPANY
BOOK 1720, PAGE 68
C.P.C.C.



P.O.E.
LAT. N 30°08'55.94"
LONG. W 93°21'02.00"

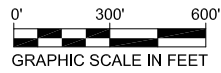
WESTLAKE POLYMERS, LP.
BOOK 2255, PAGE 620
C.P.C.C.

WESTLAKE VINYL CORPORATION
BOOK 2568, PAGE 180
C.P.C.C.

WESTLAKE VINYL CORPORATION
BOOK 2568, PAGE 180
C.P.C.C.

WESTLAKE RESOURCES CORPORATION
BOOK 2717, PAGE 42
C.P.C.C.

P.O.B.
LAT. N 30°08'22.99"
LONG. W 93°20'31.41"



THE TOTAL LENGTH OF THE CENTERLINE SHOWN
HEREIN IS 5,996.64 FEET (363.43 RODS),

THE TOTAL AREA OF THE 30' PERMANENT EASEMENT SHOWN
HEREIN IS 184,520.31 SQUARE FEET, (4.24 ACRES),

THE TOTAL AREA OF THE 70' TEMPORARY WORKSPACE
SHOWN HEREIN IS 373,085.88 SQUARE FEET, (8.56 ACRES).

LEGEND

- C.P.C.C. CALCASIEU PARISH CLERK OF COURTS
- P.O.C. POINT OF COMMENCEMENT
- P.O.B. POINT OF BEGINNING
- P.O.E. POINT OF END
- EASEMENT CENTERLINE
- ▨ TEMPORARY WORKSPACE
- ▩ ADDITIONAL TEMPORARY WORKSPACE
- SURVEY LINE
- PROPERTY LINE
- EXISTING PIPELINE
- FOUND PROPERTY CORNER AS NOTED
- ▲ PROPOSED CENTERLINE/DEED LINE INTERSECTION
- PROPOSED CENTERLINE VERTICE. THIS SYMBOL DOES NOT REPRESENT A MONUMENTED LINE. IT ONLY DEPICTS A CHANGE IN DIRECTION.

PRELIMINARY

This document shall not be recorded for any purpose and shall not be used or viewed or relied upon as a final survey document.

NOTES:

- THIS EXHIBIT WAS PREPARED WITHOUT THE BENEFIT OF A TITLE COMMITMENT AND THEREFORE LW SURVEY CO. HAS NOT RESEARCHED OR SHOWN ANY OTHER EASEMENTS, RIGHTS-OF-WAY, VARIANCES AND OR AGREEMENTS OF RECORD EXCEPT AS SHOWN HEREIN.
- THE LOCATION OF THE EASEMENT SHOWN HEREIN IS BASED ON THE EXISTING LOCATION OF THE PIPELINE. THE EXACT LOCATION OF THE CENTERLINE OF THE EASEMENT HERETOFORE CONVEYED SHALL BE ADJUSTED TO MATCH THE AS-CONSTRUCTED LOCATION. THIS EXHIBIT IS NOT A LAND SURVEY PLAT OR IMPROVEMENT SURVEY PLAT AND IS NOT TO BE RELIED UPON FOR THE ESTABLISHMENT OF FENCES, BUILDINGS, OR OTHER FUTURE IMPROVEMENTS.
- THE BEARINGS SHOWN ARE BASED ON THE LOUISIANA STATE PLANE COORDINATE STATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983, WITH 2011 ADJUSTMENT.
- THIS SURVEY MEETS THE APPLICABLE "STANDARDS OF PRACTICE" FOR ROUTE SURVEY AS SET FORTH BY THE LOUISIANA BOARD OF PROFESSIONAL SURVEYORS.
- UNDERGROUND UTILITIES WERE NOT LOCATED AS A PART OF THIS SURVEY. ABOVE GROUND EVIDENCE OF UTILITIES SHOWN HEREON.



TARGA CALCASIEU REFINING PIPELINE

WESTLAKE POLYMERS, LP.

CALCASIEU PARISH, LOUISIANA

REV.	DATE	DESCRIPTION	BY	APPRVD
A	5/16/19	FOR REVIEW	BCW	SPM
B	06/18/19	UPDATED PER CLIENT	JMB	SPM

SCALE: 1" = 600'

DWG. NO. WESTLAKE POLYMERS, LP.

DWN. BY: JMP



L.W. SURVEY CO.
1802 W. PINHOOK RD., SUITE 200
LAFAYETTE, LA 70708
337-210-5955
COA NO. LB8299

PROJECT:
CALCASIEU REFINING PIPELINE

SHEET:
2 OF 2

CALCASIEU PARISH, LOUISIANA



WESTLAKE POLYMERS, L.P.
BOOK 2255, PAGE 620
C.P.C.C.

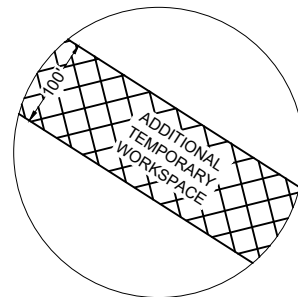
PROPOSED 6" CALCASIEU
REFINING PIPELINE

HWY 1133

POINT OF TERMINATION
A.T.W.S.

X= 2,643,213.16'
Y= 603,034.29'
LAT. 30° 8' 34.08"
LON. 93° 21' 2.58"

WESTLAKE VINYL CORPORATION
BOOK 2568, PAGE 180
C.P.C.C.



DETAIL "A"
N.T.S.

SEE DETAIL "A"

3,089'
3,089'

SEC. 36, T10N & R10W
SEC. 1, T11N & R10W

THE TOTAL AREA OF THE PROPOSED ADDITIONAL
TEMPORARY EASEMENT SHOWN HEREIN IS
308,891.39 SQUARE FEET (7.09 ACRES).

WESTLAKE RESOURCES
CORPORATION CORPORATION
BOOK 2568, PAGE 180
C.P.C.C.

POINT OF BEGINNING
A.T.W.S.

X= 2,645,869.47'
Y= 601,457.78'
LAT. 30° 8' 18.94"
LON. 93° 20' 32.02"



*These plats are to be used exclusively
for the acquisition of regulatory permits.*

The coordinates shown herein were
established by NAD83, Louisiana State
Plane South Zone. All distances shown
herein are grid distances and are in U.S.
Survey Feet.

CLIENT:



TARGA - CALCASIEU REFINING PIPELINE - PLAN WORKSPACE
PROPOSED CALCASIEU REFINING PIPELINE
CALCASIEU PARISH, LOUISIANA

SURVEYED BY:



LW Survey Co.
1602 W. Pinhook Road, Suite 200
Lafayette, LA 70608
TX-Firm # 10194133

DRAWN BY:

JMP

DRAWN DATE:

06/10/2019

CHECK'D BY:

SPM

PLOT DATE:

06/10/19

DWG. NO.

TARGA - CALCASIEU REFINING PIPELINE - C.O.E.

REV. (0)

SHEET: 2 OF 6

CALCASIEU PARISH, LOUISIANA

SECTION 36, T10S-R10W

EXHIBIT "B"

CENTERLINE DESCRIPTION:

A STRIP OF LAND LOCATED IN THAT PARCEL OF LAND CONVEYED TO WESTLAKE RESOURCES CORPORATION, RECORDED IN BOOK 2717, PAGE 42, CALCASIEU PARISH CLERK OF COURT'S, STATE OF LOUISIANA, LYING WITHIN SECTION 36, TOWNSHIP 10 SOUTH, RANGE 10 WEST, BEING A 30 FOOT WIDE EASEMENT, BEING 15 FEET ALONG EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE:

COMMENCING AT THE NORTHWESTWEST CORNER OF SECTION 36 BEING A FOUND NAIL IN THE ROAD [N: 607,255.33', E: 2,643,269.29' LAT. N 30°09'15.84", LONG. W 93°21'02.80"] THENCE S 62°29'48" E, A DISTANCE OF 6,709.80 FEET TO THE EAST LINE OF SAID PARCEL OF LAND AND THE **POINT OF BEGINNING** OF THIS HEREIN DESCRIBED CENTERLINE;

THENCE N 56°15'20" W, A DISTANCE OF 3,949.81 FEET TO A POINT;

THENCE N 01°04'14" E, A DISTANCE OF 440.42 FEET TO THE NORTH LINE OF SAID PARCEL OF LAND AND THE **POINT OF END** OF THIS HEREIN DESCRIBED CENTERLINE;

THE TOTAL LENGTH OF THE ABOVE DESCRIBED CENTERLINE IS 4,390.22 FEET (266.07 RODS), CONTAINING AN AREA OF 131,706.68 SQUARE FEET OR 3.02 ACRES OF LAND, MORE OR LESS.

NOTES:

1. THIS EXHIBIT WAS PREPARED WITHOUT THE BENEFIT OF A TITLE COMMITMENT AND THEREFORE LW SURVEY CO. HAS NOT RESEARCHED OR SHOWN ANY OTHER EASEMENTS, RIGHTS-OF-WAY, VARIANCES AND OR AGREEMENTS OF RECORD EXCEPT AS SHOWN HEREIN.
2. THE LOCATION OF THE EASEMENT SHOWN HEREIN IS BASED ON THE EXISTING LOCATION OF THE PIPELINE. THE EXACT LOCATION OF THE CENTERLINE OF THE EASEMENT HERETOFORE CONVEYED SHALL BE ADJUSTED TO MATCH THE AS-CONSTRUCTED LOCATION. THIS EXHIBIT IS NOT A LAND SURVEY PLAT OR IMPROVEMENT SURVEY PLAT AND IS NOT TO BE RELIED UPON FOR THE ESTABLISHMENT OF FENCES, BUILDINGS, OR OTHER FUTURE IMPROVEMENTS.
3. THE BEARINGS SHOWN ARE BASED ON THE LOUISIANA STATE PLANE COORDINATE STATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983, WITH 2011 ADJUSTMENT.
4. THIS SURVEY MEETS THE APPLICABLE "STANDARDS OF PRACTICE" FOR ROUTE SURVEY AS SET FORTH BY THE LOUISIANA BOARD OF PROFESSIONAL SURVEYORS.
5. UNDERGROUND UTILITIES WERE NOT LOCATED AS A PART OF THIS SURVEY. ABOVE GROUND EVIDENCE OF UTILITIES SHOWN HEREON.

PRELIMINARY

This document shall not be recorded for any purpose and shall not be used or viewed or relied upon as a final survey document.



TARGA CALCASIEU REFINING PIPELINE
WESTLAKE RESOURCES CORPORATION

CALCASIEU PARISH, LOUISIANA

REV.	DATE	DESCRIPTION	BY	APPRVD
A	5/14/19	FOR REVIEW	BCW	SPM
B	06/18/19	UPDATED PER CLIENT	JMB	SPM

SCALE: N.T.S.

DWG. NO. WESTLAKE RESOURCES CORPORATION

DWN. BY: JMP



L.W. SURVEY CO.
1802 W. PINHOOK RD., SUITE 200
LAFAYETTE, LA 70708
337-210-5955
COA NO. LB8299

PROJECT:
CALCASIEU REFINING PIPELINE

SHEET:
1 OF 2

CALCASIEU PARISH, LOUISIANA

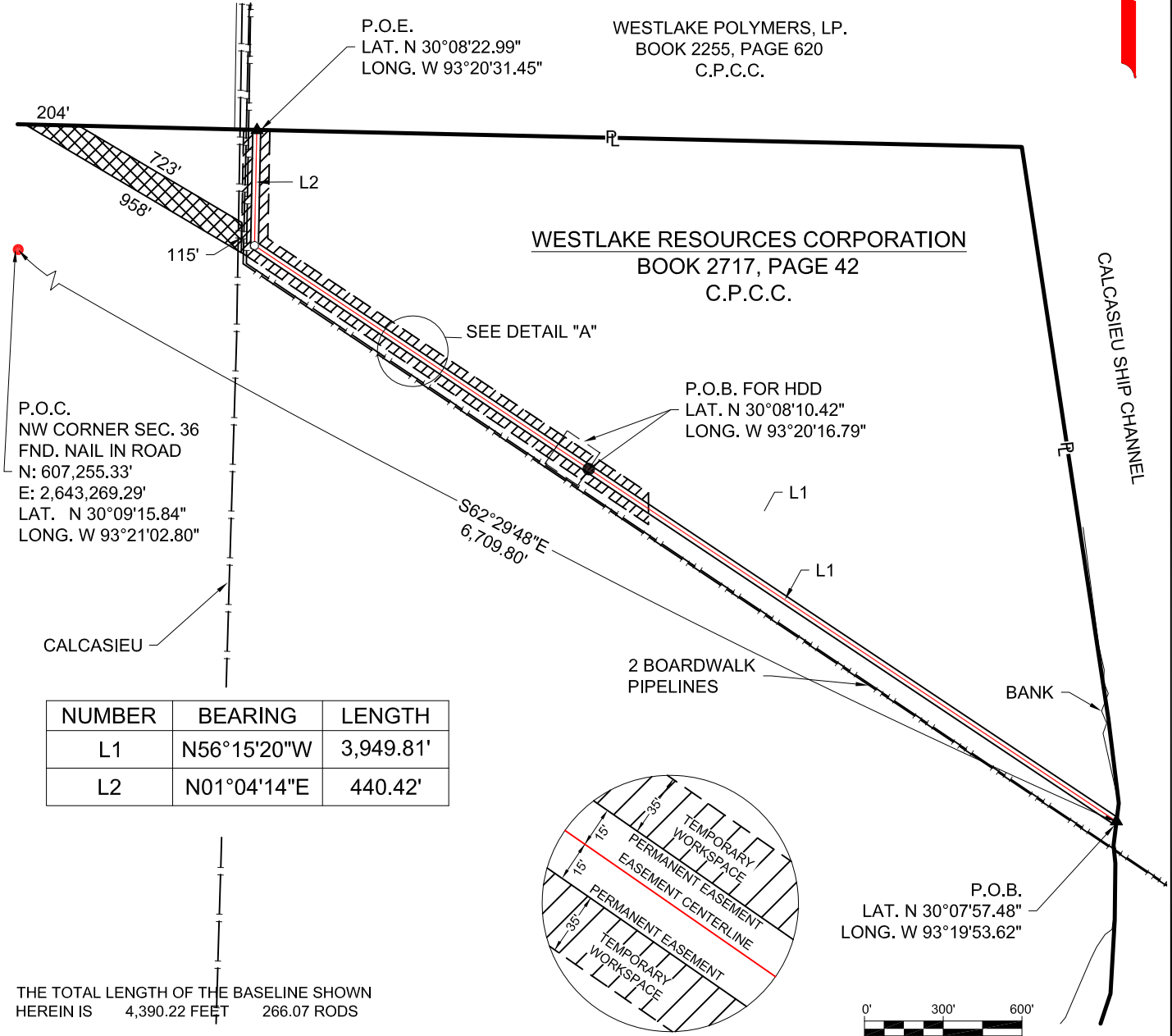
SECTION 36, T10S-R10W

EXHIBIT "B"

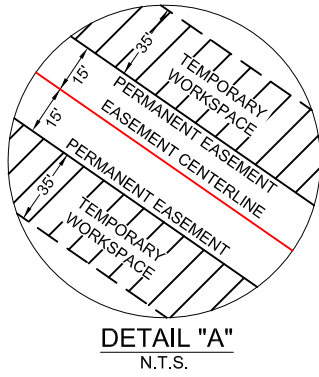
WESTLAKE VINYL CORPORATION
BOOK 2568, PAGE 180
C.P.C.C.

WESTLAKE POLYMERS, LP.
BOOK 2255, PAGE 620
C.P.C.C.

WESTLAKE RESOURCES CORPORATION
BOOK 2717, PAGE 42
C.P.C.C.



NUMBER	BEARING	LENGTH
L1	N56°15'20\"W	3,949.81'
L2	N01°04'14\"E	440.42'

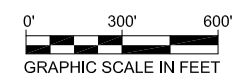


THE TOTAL LENGTH OF THE BASELINE SHOWN HEREIN IS 4,390.22 FEET 266.07 RODS

THE TOTAL AREA OF THE 50' PERMANENT EASEMENT SHOWN HEREIN IS 131,706.68 SQUARE FEET, ±3.02 AC.

THE TOTAL AREA OF THE 45' TEMPORARY EASEMENT SHOWN HEREIN IS 157,194.15 SQUARE FEET, ±3.61 AC.

THE TOTAL AREA OF THE ADDITIONAL TEMPORARY EASEMENT SHOWN HEREIN IS 84,017.76 SQUARE FEET, ±1.93 AC.



LEGEND

- C.P.C.C. CALCASIEU PARISH CLERK OF COURTS
- P.O.C. POINT OF COMMENCEMENT
- P.O.B. POINT OF BEGINNING
- P.O.E. POINT OF END
- EASEMENT CENTERLINE
- ▨ TEMPORARY WORKSPACE
- ▩ ADDITIONAL TEMPORARY WORKSPACE
- SURVEY LINE
- PROPERTY LINE
- EXISTING PIPELINE
- FOUND PROPERTY CORNER AS NOTED
- ▲ PROPOSED CENTERLINE/DEED LINE INTERSECTION
- PROPOSED CENTERLINE VERTICE. THIS SYMBOL DOES NOT REPRESENT A MONUMENTED LINE. IT ONLY DEPICTS A CHANGE IN DIRECTION.

PRELIMINARY

This document shall not be recorded for any purpose and shall not be used or viewed or relied upon as a final survey document.

- NOTES:**
- THIS EXHIBIT WAS PREPARED WITHOUT THE BENEFIT OF A TITLE COMMITMENT AND THEREFORE LW SURVEY CO. HAS NOT RESEARCHED OR SHOWN ANY OTHER EASEMENTS, RIGHTS-OF-WAY, VARIANCES AND OR AGREEMENTS OF RECORD EXCEPT AS SHOWN HEREIN.
 - THE LOCATION OF THE EASEMENT SHOWN HEREIN IS BASED ON THE EXISTING LOCATION OF THE PIPELINE. THE EXACT LOCATION OF THE CENTERLINE OF THE EASEMENT HERETOFORE CONVEYED SHALL BE ADJUSTED TO MATCH THE AS-CONSTRUCTED LOCATION. THIS EXHIBIT IS NOT A LAND SURVEY PLAT OR IMPROVEMENT SURVEY PLAT AND IS NOT TO BE RELIED UPON FOR THE ESTABLISHMENT OF FENCES, BUILDINGS, OR OTHER FUTURE IMPROVEMENTS.
 - THE BEARINGS SHOWN ARE BASED ON THE LOUISIANA STATE PLANE COORDINATE STATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983, WITH 2011 ADJUSTMENT.
 - THIS SURVEY MEETS THE APPLICABLE "STANDARDS OF PRACTICE" FOR ROUTE SURVEY AS SET FORTH BY THE LOUISIANA BOARD OF PROFESSIONAL SURVEYORS.
 - UNDERGROUND UTILITIES WERE NOT LOCATED AS A PART OF THIS SURVEY. ABOVE GROUND EVIDENCE OF UTILITIES SHOWN HEREON.
 - ENTIRE LOT NOT SHOWN FOR CLARITY.



TARGA CALCASIEU REFINING PIPELINE
WESTLAKE RESOURCES CORPORATION
CALCASIEU PARISH, LOUISIANA

REV.	DATE	DESCRIPTION	BY	APPRVD
A	5/14/19	FOR REVIEW	BCW	SPM
B	06/18/19	UPDATED PER CLIENT	JMB	SPM

SCALE: 1" = 600' DWG. NO. WESTLAKE RESOURCES CORPORATION DWN. BY: JMP





L.W. SURVEY CO.
1802 W. PINHOOK RD., SUITE 200
LAFAYETTE, LA 70708
337-210-5858
COA NO. LB8299

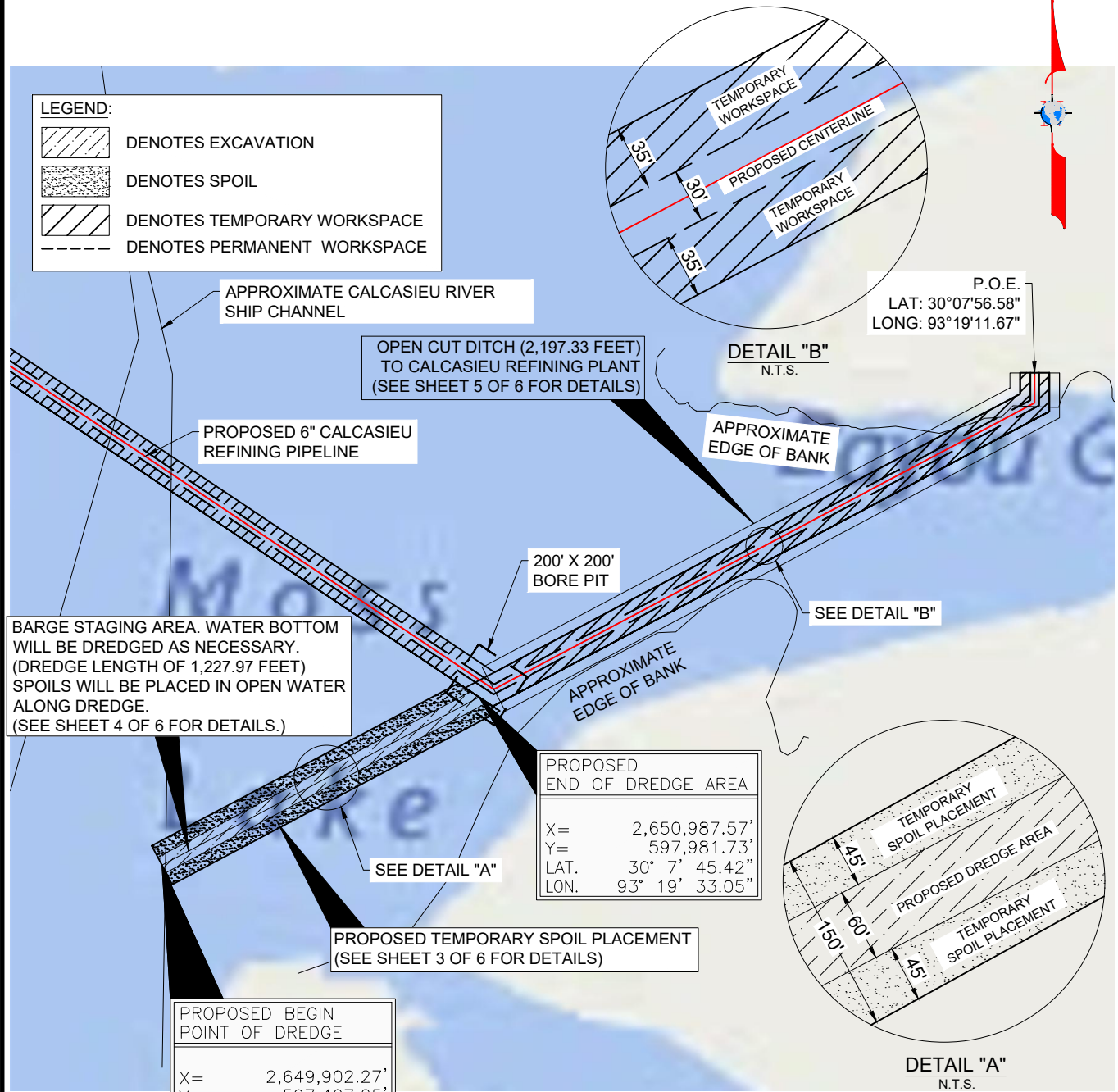
PROJECT: CALCASIEU REFINING PIPELINE SHEET: 2 OF 2

R:\Lafayette\52809 - Targa - Calcasieu Refining Pipeline\Drawings\Certified Plats\TARGA CALCASIEU - WESTLAKE RESOURCES CORPORATION_REV B.dwg

CALCASIEU PARISH, LOUISIANA

LEGEND:

-  DENOTES EXCAVATION
-  DENOTES SPOIL
-  DENOTES TEMPORARY WORKSPACE
-  DENOTES PERMANENT WORKSPACE



BARGE STAGING AREA. WATER BOTTOM WILL BE DREDGED AS NECESSARY. (DREDGE LENGTH OF 1,227.97 FEET) SPOILS WILL BE PLACED IN OPEN WATER ALONG DREDGE. (SEE SHEET 4 OF 6 FOR DETAILS.)

PROPOSED END OF DREDGE AREA

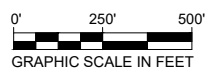
X= 2,650,987.57'
 Y= 597,981.73'
 LAT. 30° 7' 45.42"
 LON. 93° 19' 33.05"

PROPOSED BEGIN POINT OF DREDGE

X= 2,649,902.27'
 Y= 597,407.25'
 LAT. 30° 7' 39.54"
 LON. 93° 19' 45.29"



Equipment

- Three(3) Barges (120'x40') - Draft 5'
- Two(2) Tugs - Draft 5'
- One (1) Crew Boat - Draft 4'



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

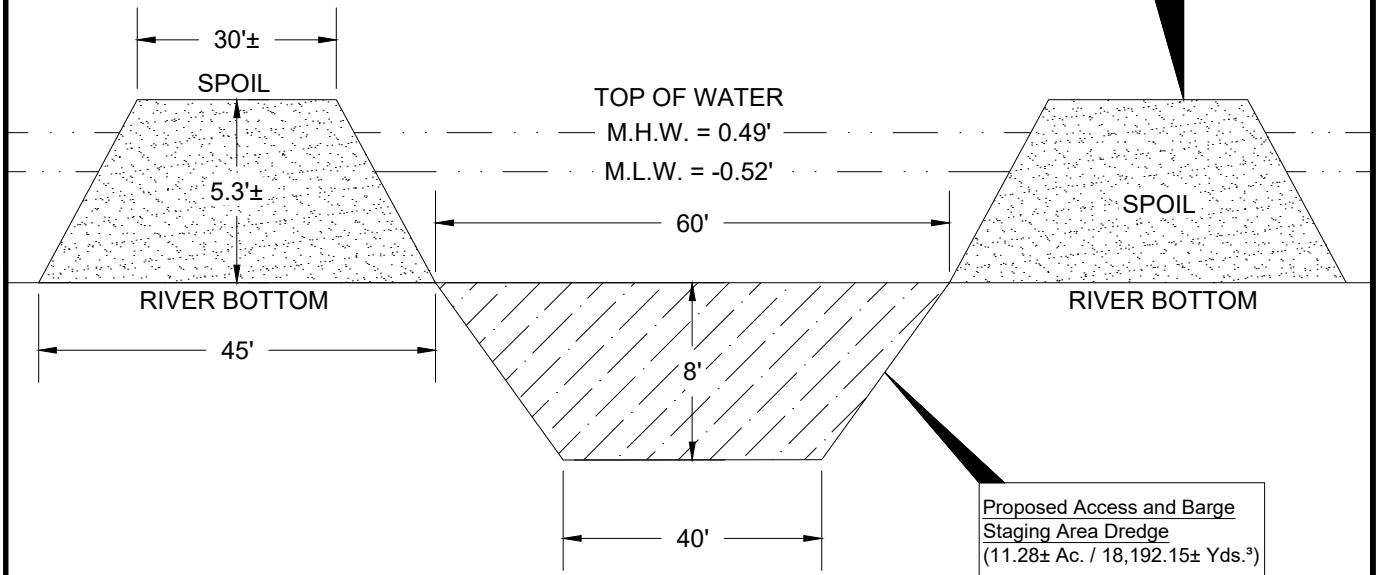
The coordinates shown herein were established by NAD83, Louisiana State Plane South Zone. All distances shown herein are grid distances and are in U.S. Survey Feet.

CLIENT:  TARGA		TARGA - CALCASIEU REFINING PIPELINE - PLAN WORKSPACE PROPOSED CALCASIEU REFINING PIPELINE CALCASIEU PARISH, LOUISIANA			
SURVEYED BY:  LW Survey Co. 1602 W. Pinhook Road, Suite 200 Lafayette, LA 70608 TX-Firm # 10194133		DRAWN BY: JMP	DRAWN DATE: 06/10/2019	CHECK'D BY: SPM	PLOT DATE: 11/07/19
DWG. NO. TARGA - CALCASIEU REFINING PIPELINE - C.O.E.			REV. 0	SHEET: 3 OF 6	

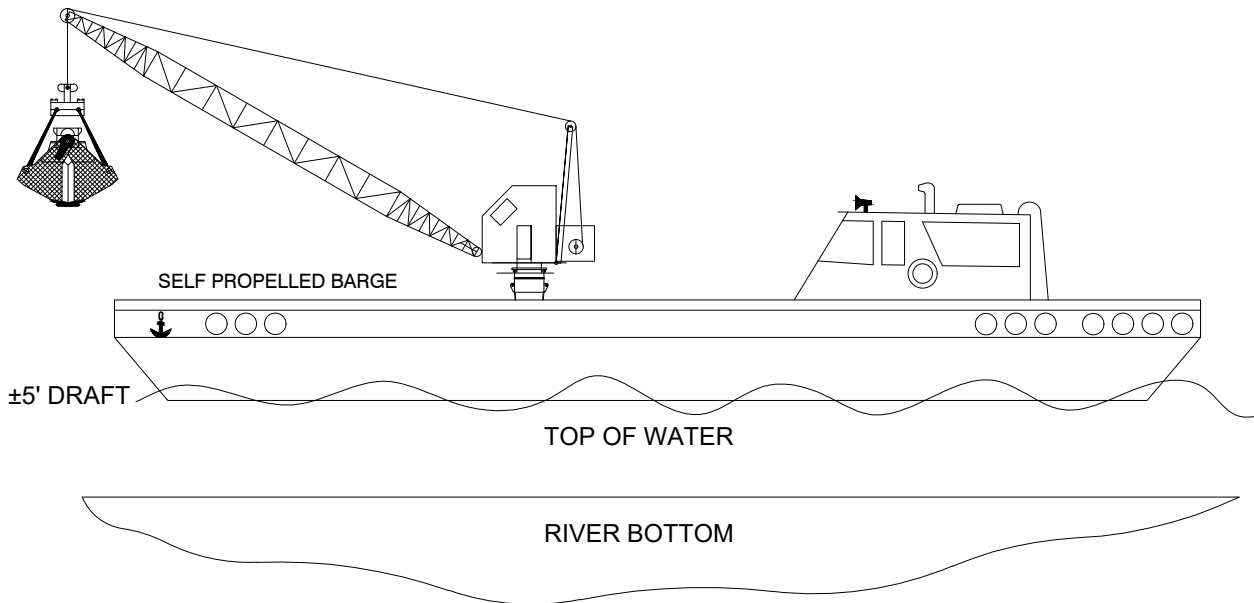
CALCASIEU PARISH, LOUISIANA

Proposed Temporary Dredge Spoil Placement

To remain following until project completion
 (5.64± Ac. / 9,096.08± Yds.³) Temporary dredge soil placement in this area will be put back/backfilled in the dredge area. The site will be restored to pre-existing conditions/contours after completion of the project.



A1-TYPICAL DREDGE
N.T.S.



A-2 TYPICAL VESSEL FOR SITE CLEARANCE OPERATIONS
N.T.S.

CLIENT:



TARGA

TARGA - CALCASIEU REFINING PIPELINE - TYPICAL DETAILS
 PROPOSED CALCASIEU REFINING PIPELINE
 CALCASIEU PARISH, LOUISIANA

SURVEYED BY:



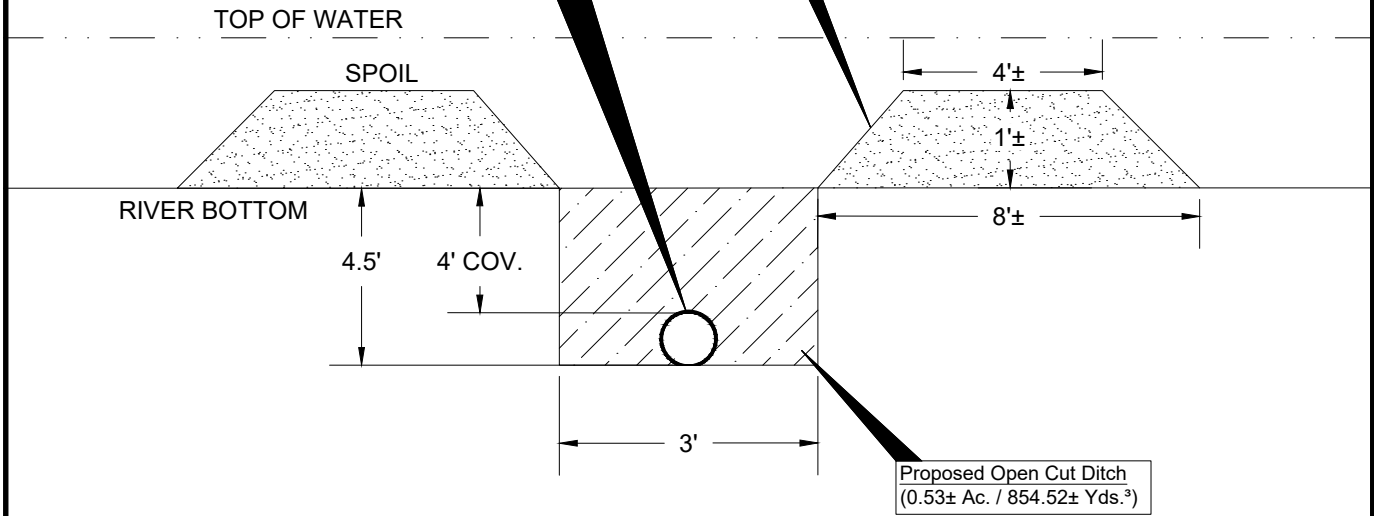
LW Survey Co.
 1602 W. Pinhook Road, Suite 200
 Lafayette, LA 70608
 TX-Firm # 10194133

DRAWN BY: JMP	DRAWN DATE: 06/10/2019	CHECK'D BY: SPM	PLOT DATE: 06/10/19
DWG. NO. TARGA - CALCASIEU REFINING PIPELINE - C.O.E.		REV. 0	SHEET: 4 OF 6

CALCASIEU PARISH, LOUISIANA

Proposed Temporary Open Cut Spoil Placement
 To remain following until project completion
 (0.26± Ac. / 427.26± Yds.³) Temporary Open Cut soil placement in this area will be put back/backfilled in the Open Cut area. The site will be restored to pre-existing conditions/contours after completion of the project.

**PROPOSED 6" CALCASIEU
 REFINING PIPELINE**



A3-TYPICAL PIPE IN DITCH
 N.T.S.

CLIENT:



TARGA - CALCASIEU REFINING PIPELINE - TYPICAL DETAIL
 PROPOSED CALCASIEU REFINING PIPELINE
 CALCASIEU PARISH, LOUISIANA

SURVEYED BY:



LW Survey Co.
 1602 W. Pinhook Road, Suite 200
 Lafayette, LA 70608
 TX-Firm # 10194133

DRAWN BY:

JMP

DRAWN DATE:

06/10/2019

CHECK'D BY:

SPM

PLOT DATE:

06/10/19

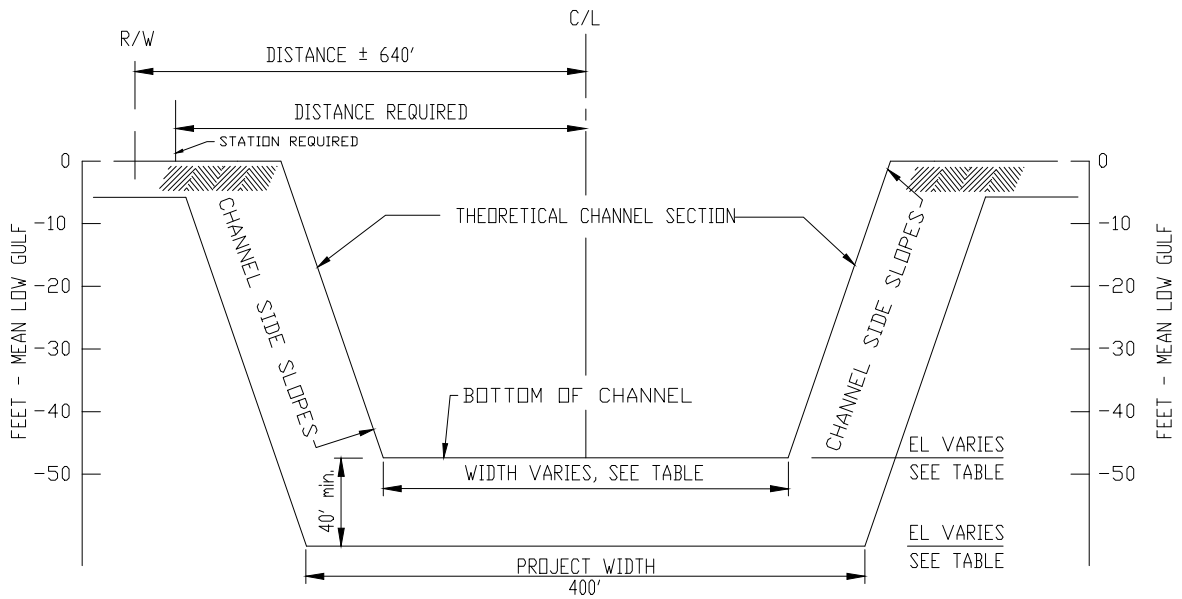
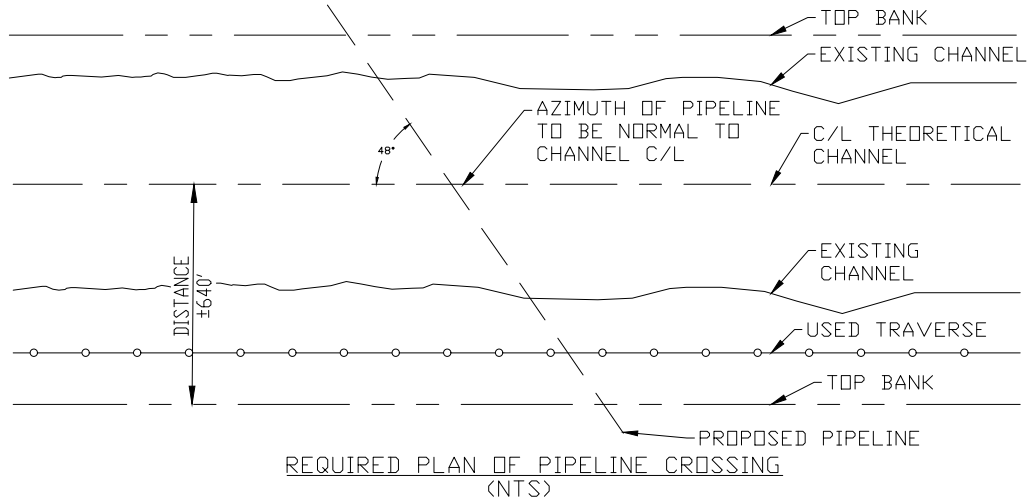
DWG. NO.

TARGA - CALCASIEU REFINING PIPELINE - C.O.E.

REV. 0

SHEET: 5 OF 6

CALCASIEU PARISH, LOUISIANA



REQUIRED CROSS SECTION OF PIPELINE CROSSING
(NTS)

TABULATION OF PROJECT REACHES

NAME AND DESCRIPTION	DEPTH	WIDTH	TOP OF PIPE EL.	SIDE SLOPES
MI.34.1 TO MI.0 (2,000 X 350' MOORING AREA AT MI. 30, TURNING BASIN AT MI.35.9)	40	400	-55	1 on 2.5(a)

NOTES:

- THE THEORETICAL CHANNEL SECTION MAY BE CONTAINED WITHIN THE EXISTING CHANNEL SECTION. THE PIPELINE WILL BE PACED 15 FEET BELOW THE THEORETICAL SECTION, OR 10 FEET BELOW THE EXISTING BED WHICHEVER PROVIDES THE GREATER CLEARANCE. A MINIMUM OF 15 FEET OF COVER WILL BE PROVIDED ON THE CHANNEL SLOPES. ALL DISTANCES SHOWN ARE NORMAL TO THE CENTERLINE OF THE CHANNEL.
- SIDE SLOPES ARE 1 ON 3 BETWEEN MI.23.7 AND 26.7, MI.29.7 AND 34.1
- AUTHORIZED CHANNELS ARE CONTAINED WITHIN EXISTING CROSS SECTIONS OF RIVER

CLIENT:



TARGA - CALCASIEU REFINING PIPELINE - TYPICAL DETAIL
PROPOSED CALCASIEU REFINING PIPELINE
CALCASIEU PARISH, LOUISIANA

SURVEYED BY:



LW Survey Co.
1602 W. Pinhook Road, Suite 200
Lafayette, LA 70608
TX-Firm # 10194133

DRAWN BY:

JMP

DRAWN DATE:

06/10/2019

CHECKED BY:

SPM

PLOT DATE:

06/10/19

DWG. NO.

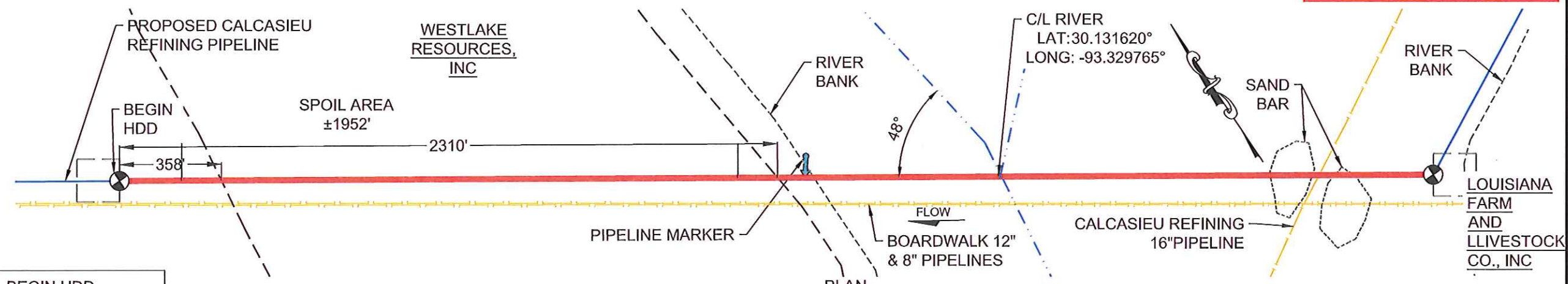
TARGA - CALCASIEU REFINING PIPELINE - C.O.E.

REV. 0

SHEET: 6 OF 6

PROPOSED CALCASIEU REFINING PIPELINE CALCASIEU RIVER CALCASIEU PARISH, LOUISIANA

PER LOUISIANA STATE LAW, CONTACT "ONE-CALL" 48 HOURS (MIN.) PRIOR TO ANY EXCAVATION OR DIGGING POTHOLE ALL UTILITIES TO VERIFY DEPTH AND LOCATION.

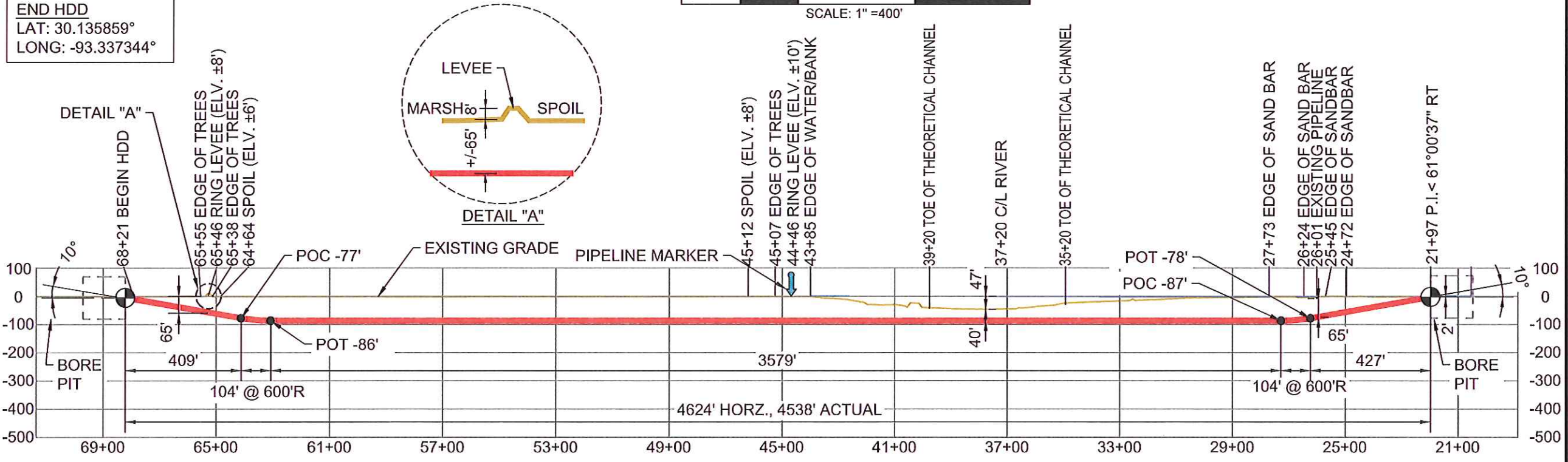


CROSSING PIPE SPEC	
DESCRIPTION	CARRIER PIPE
CONTENTS TO BE HANDLED	NATURAL GAS
OUTSIDE DIAMETER	6.750"
PIPE MATERIAL	STEEL
SPECIFICATION AND GRADE	
WALL THICKNESS	
MAOP	

BEGIN HDD
LAT: 30.136225°
LONG: -93.337999°
END HDD
LAT: 30.135859°
LONG: -93.337344°

PIPING MATERIAL	

LEGEND:	
	BEGIN / END HDD & BORE PIT
	C/L EASEMENT
	PERMANENT EASEMENT
	TEMPORARY WORKSPACE
	PROPOSED PIPELINE
	ADDITIONAL TEMPORARY WORKSPACE
	C/L FOREIGN PIPELINE
	RIVER BANK
	SPOIL
	SAND BAR
	C/L RIVER



- NOTES:**
- IN ADDITION TO THE SITE-SPECIFIC INFORMATION PROVIDED IN THIS DRAWING, GENERAL REQUIREMENTS INCLUDED IN PERMITS AND APPROVAL FROM FEDERAL, STATE, AND LOCAL AGENCIES ALSO APPLY.
 - CONTRACTOR SHALL USE THE "ONE CALL" SYSTEM PRIOR TO BEGINNING WORK. CONTRACTOR SHALL BE RESPONSIBLE TO LOCATE ALL PARALLEL AND CROSSED UTILITIES PRIOR TO EXCAVATION OR CONSTRUCTION. THIS DRAWING SHALL NOT CONSTITUTE VERIFICATION OF LOCATION, DEPTH, QUANTITY, SIZE, OR TYPES OF EXISTING UTILITIES.
 - CONTRACTOR TO VERIFY ALL EXISTING FACILITY PLACEMENT PRIOR TO SUBMITTING BID. SPECIFIC SAFETY PROCEDURES, OUTLINED BY COMPANY, ARE TO BE FOLLOWED AT ALL TIMES. PERMITTING AND NOTIFICATION TO CROSS OR WORK OVER EXISTING FACILITIES SHALL BE THE CONTRACTORS RESPONSIBILITY. MAINTAIN 2FT MINIMUM CLEARANCE WHEN CROSSING FOREIGN UNDERGROUND UTILITIES.
 - THE PROPOSED HDD PROFILE IS DESIGNED WITH 600 FT. RADIUS.
 - IF MATTING, SHORING, AND WELL POINTS ARE REQUIRED IT SHALL BE THE CONTRACTORS RESPONSIBILITY.
 - ENTRY AND EXIT ANGLES ARE MEASURED FROM HORIZONTAL PLANE.
 - FILL MATERIAL IS NOT REQUIRED AT THIS SITE.
 - COORDINATES SHOWN, ARE BASED ON STATE PLANE NAD 83 DATUM, US FOOT; LOUISIANA SOUTH
 - PIPELINE WILL BE CATHODICALLY PROTECTED
 - UTILITIES SHOWN ARE FOR HORIZONTAL REFERENCE ONLY
 - CARRIER PIPE IS NOT CASED.
 - INSTALL PIPELINE WARNING MARKERS ON WEST SIDE OF THE RIVER.

REVISIONS				
NO.	DESCRIPTION	DATE	BY	CHK.
△				
△				
△				
△	REVISED PER CLIENT COMMENTS	03/22/19	AS	SM
△	REVISED PER CLIENT COMMENTS	03/01/19	CL	SM
△	REVISED PER CLIENT COMMENTS	02/23/19	JP	SM
△	ISSUED FOR REVIEW	02/18/19	CL	SM
△	ISSUED FOR REVIEW	02/15/19	CL	SM

CALCASIEU RIVER CALCASIEU REFINING PIPELINE

CALCASIEU PARISH, LOUISIANA

SCALE: 1"=400' 1"=400'	DRAWN BY: CL	CHECK BY: ZM	DATE DRAWN: 2/08/19
DRAWING NUMBER: 52809 - HDD - CALCASIEU			REV. D