



DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS, NEW ORLEANS DISTRICT
7400 LEAKE AVE
NEW ORLEANS, LA 70118-3651

JOINT PUBLIC NOTICE

November 25, 2019

United States Army Corps of Engineers
New Orleans District
Regulatory Branch
7400 Leake Avenue
New Orleans, Louisiana 70118-3651

(225) 342-3099
Project Manager
James W. Little, Jr.
james.little@usace.army.mil
Permit Application Number
MVN-2018-00335-WII

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

(225) 219-3225
Project Manager
Elizabeth Hill
elizabeth.hill@la.gov
WQC Application Number
WQC 191029-01

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, Office of Environmental Services for a Water Quality Certification (WQC) in accordance with statutory authority contained in LRS 30:2074 A(3) and provisions of Section 401 of the Clean Water Act (P.L. 95-17).

PROPOSED PIPELINES IN ST. JAMES AND LAFOURCHE PARISHES

NAME OF APPLICANT: ACE Pipeline, LLC, c/o Morris P. Hebert, Inc., Attn: Mr. Timothy Robertson, 8724 Jefferson Highway, Baton Rouge, Louisiana 70809

LOCATION OF WORK: The proposed 58.2-mile mainline pipeline beginning at an existing terminal and connection point in St. James, Louisiana and terminating at the LOOP Facility in Galliano, Louisiana and a 30-inch diameter crude oil connector pipeline approximately 1.9-miles in length beginning and terminating at an existing connection point in St. James, Louisiana, within in St. James and Lafourche Parishes, Louisiana and is in the East Central Louisiana Coastal (08090301) watershed, as shown in the attached drawings.

CHARACTER OF WORK: The applicant has requested Department of the Army authorization to install, operate and maintain a 30-inch diameter crude oil pipeline will include the construction of two pump stations at the origin of each pipeline, five mainline valve sites with access roads along the main pipeline, and 35 temporary access roads for construction. The

project activities include clearing the right-of-way, conducting trenching operations, installing various above and below ground pipelines and components, installing aboveground facilities, temporarily stockpiling materials, and performing horizontal directional drilling (HDD) operations. Following construction, areas temporarily impacted by the project will be restored to pre-construction grade and allowed to revegetate to the extent allowed under United States Department of Transportation (USDOT) regulations. The area within the permanent right-of-way easement will be maintained throughout the operation of the pipeline in an herbaceous habitat.

Implementation of the proposed project will impact approximately 542.1 acres of jurisdictional wetlands and 62.49 acres of other waters of the U.S., of which approximately 94.43 acres of forested wetlands, 62.11 acres of scrub-shrub wetlands, and 332.04 acres of herbaceous wetlands that will be temporarily impacted by construction, and approximately 31.65 acres of forested wetlands, and 21.78 acres of scrub-shrub wetlands will be converted to non-forested wetlands within the permanent pipeline right-of-way. The project will result in the permanent loss of 0.09 of an acre of wetlands as the result of the installation of one of the mainline valve sites, which will require the placement of 139 cubic yards of fill material in wetlands. No other project facilities will result in the placement of fill in any waters of the U.S.

The applicant has designed the project to avoid and minimize direct and secondary adverse impacts to the maximum extent practicable by co-locating the proposed route with existing rights-of-way, utilizing HDDs, reducing the construction footprint to 75 feet in wetlands, and maximizing the use of existing access roads. The applicant proposes to offset unavoidable wetland impacts by instituting a Permittee Responsible Mitigation Plan within the New Orleans District.

The comment period for the Department of Army and the Louisiana Department of Environmental Quality WQC will close in **20 days** from the date of this joint public notice. Written comments, including suggestions for modification or objections to the proposed work, stating reasons thereof, are being solicited from anyone having interest in this permit 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**. **Individuals or parties may request an extension of time in which to comment on the proposed work by writing, faxing, or emailing the Corps of Engineers Project Manager listed above. Any requests 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 requester 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.**

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. The application for the 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.

Our initial finding is that the proposed work would not adversely affect any species listed as threatened or endangered by the U.S. Department of Interior or Commerce, nor affect any habitat designated as critical to the survival and recovery of any endangered species. Based on the South Louisiana Standard Local Operating Procedure for Endangered Species (SLOPES), as signed on October 22, 2014, between the U.S. Army Corps of Engineers, New Orleans and the U.S. Fish and Wildlife Service. The model was run on November 18, 2019, and it has been determined that the proposed project is not likely to adversely affect the West Indian Manatee and would have no effect on all other listed species.

This notice initiates the Essential Fish Habitat (EFH) consultation requirements of the Magnuson-Stevens Fishery Conservation and Management Act. The applicant's proposal would result in the destruction or alteration of up to **8.4** 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 water quality standards will be required from the Department of Environmental Quality, Office of Environmental Services 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.

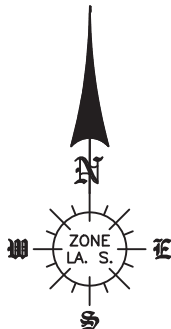
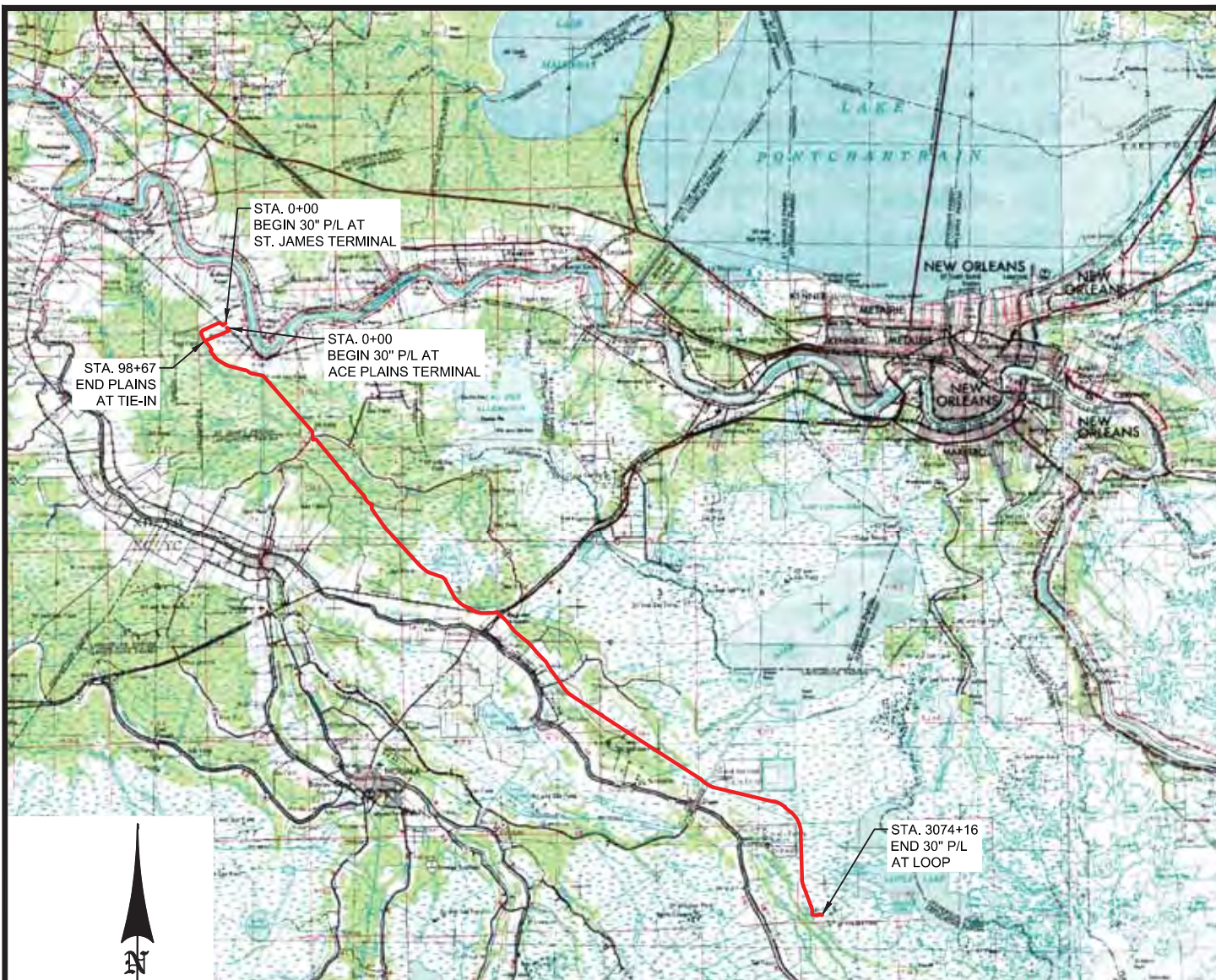
The applicant has certified that the proposed activity described in the application complies with and will be conducted in a manner that is consistent with the Louisiana Coastal Resources Program. The Department of the Army permit will not be issued unless the applicant received approval or a waiver 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.

John M Herman
Chief, Central Evaluation Section
Regulatory Branch

Enclosures

P:\01-Survey_Projects\Phillips 66\13111 ACE\DWG\Permits\COE\13111COE0001A0.dwg PLOT DATE: 3/25/19 3:16:05pm



VICINITY MAP

GRAPHIC SCALE



FOR PERMITTING ONLY - THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE OR SALES.
GERARD M. LEGENDRE, P.L.S., LA. LAND SURVEYOR REG. NO. 4966

NO.	DATE	REV. BY:
1	3/25/19	KDT

REVISED PLATS
REVISION

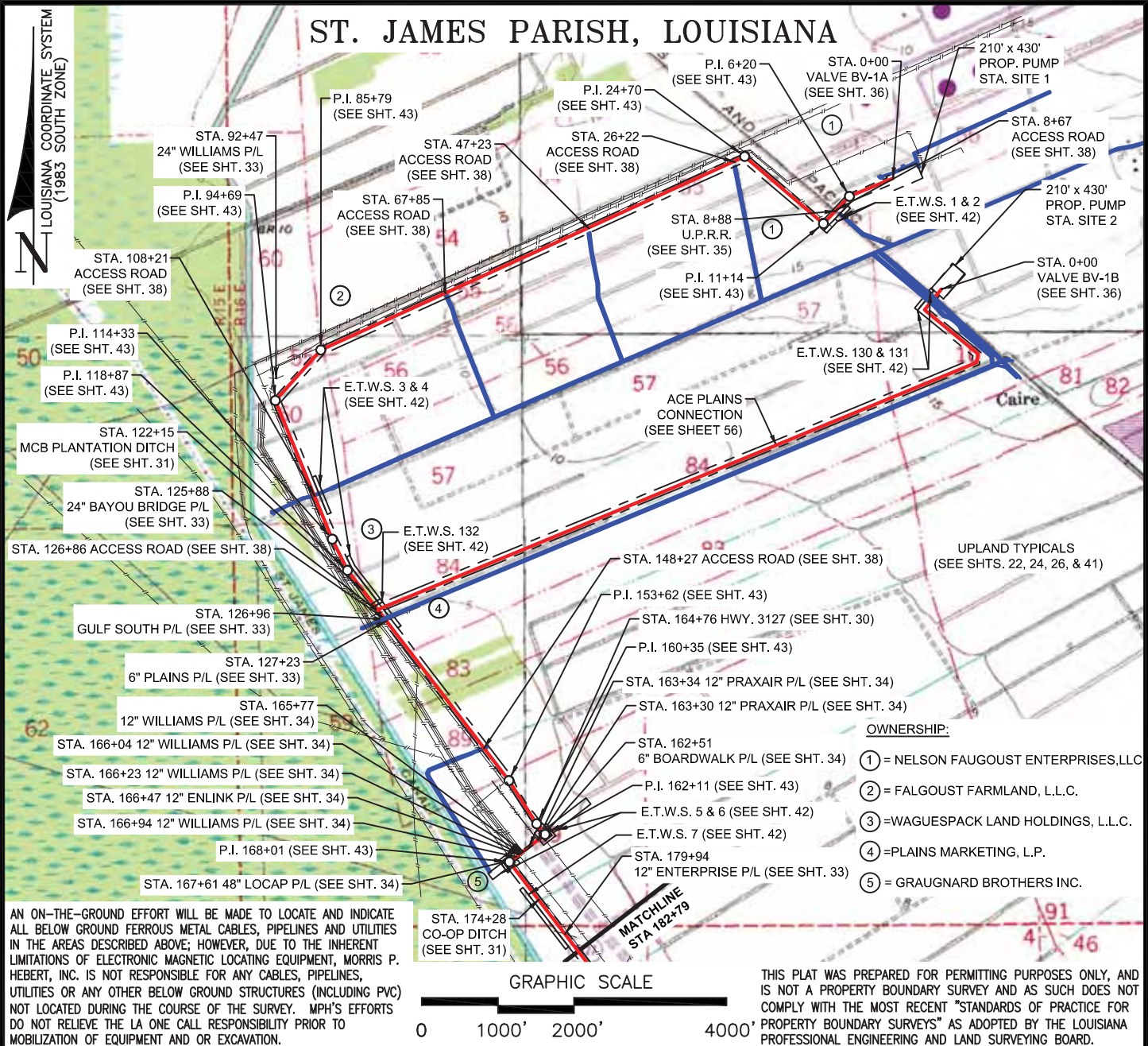


VICINITY MAP
PROPOSED 30" PIPELINE
ST. JAMES TO LOOP
STA. 0+00 TO STA. 3074+16
AND STA. 0+00 TO STA. 98+67



DRAWN BY:	MPH	SHEET:	1
CHKD./APPD. BY:	GML	SCALE:	1" = 10 MILES
UPDATED BY:	KDT	DATE:	03/25/19
DATA BASE:	13111	JOB NO.	13111-00
MPH CAD FILE: 13111COE0001A0.DWG			

ST. JAMES PARISH, LOUISIANA



FOR PERMITTING ONLY - THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE OR SALES.
 GERARD M. LEGENDRE, P.L.S., LA. LAND SURVEYOR REG. NO. 4966

NO.	DATE	REV. BY:	REVISION
-----	------	----------	----------

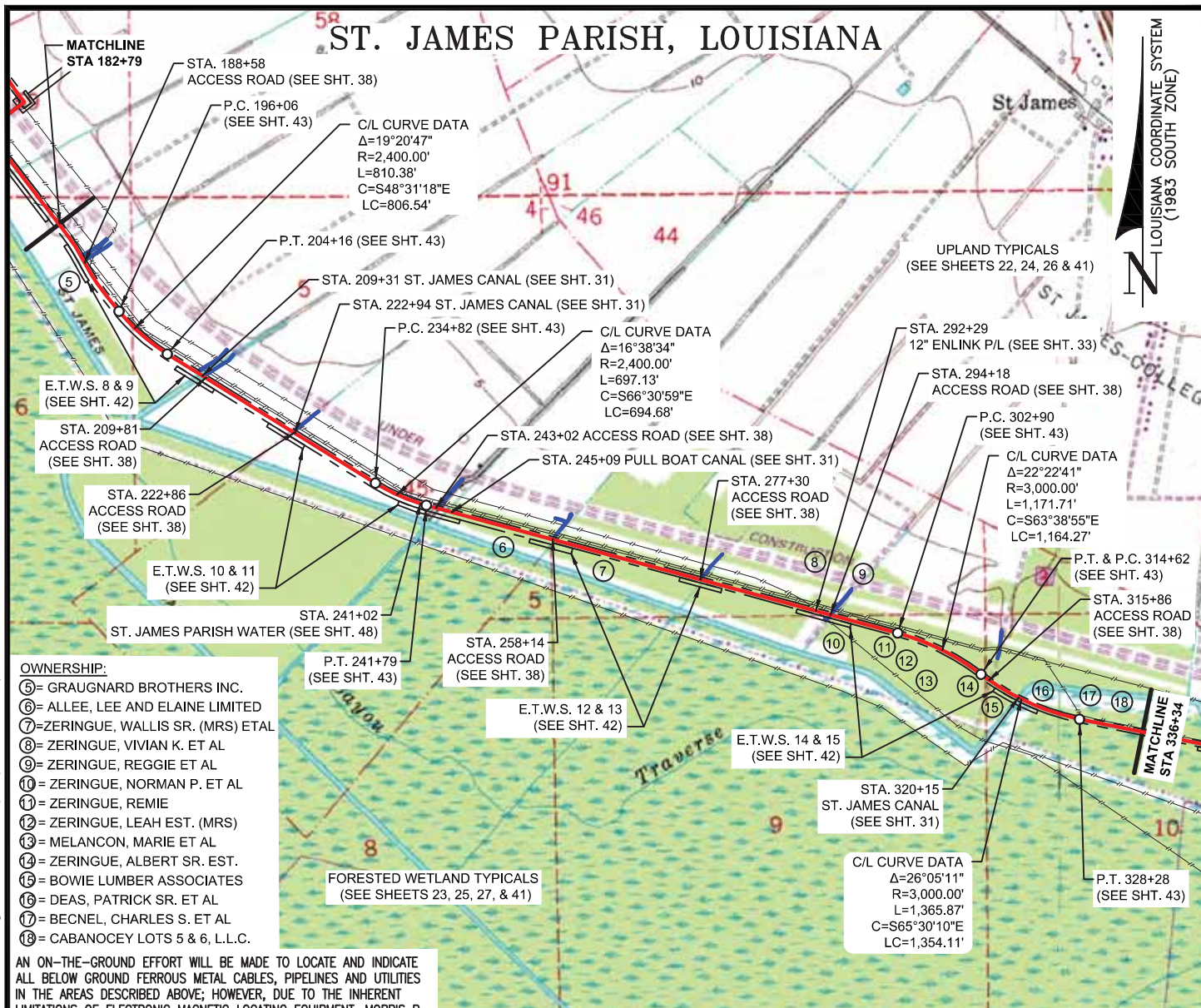
ACE
PIPELINE LLC

**PLAN VIEW NO. 1
 PROPOSED 30" PIPELINE
 ST. JAMES TO LOOP
 ST. JAMES PARISH, LOUISIANA
 STA 0+00 TO STA 182+79 & STA. 0+00 TO 98+67**

mph
 Morris P. Hebert, Inc.
 SURVEYING • ENGINEERING • ENVIRONMENTAL • GIS
 P.O. BOX 3106 • 283 CORPORATE DRIVE • HOUMA, LOUISIANA 70361 • (985) 879-2731
 HOUMA, LA. • HOUSTON, TX. • SAN ANTONIO, TX. • MIDLAND, TX.
 TEXAS SURVEY FIRM REGISTRATION NUMBER: 10193786 (HOUMA OFFICE)

DRAWN BY: MPH	SHEET: 2
CHKD./APPD. BY: GML	SCALE: 1" = 2000'
UPDATED BY:	DATE: 04/10/19
DATA BASE: 13111	JOB NO. 13111-00
MPH CAD FILE: 13111COE0002A0.DWG	

P:\01-Survey_Projects\Phillips 66\13111 ACE\DWG\Permits\COE\13111COE0003A0.dwg PLOT DATE: 2/27/19 2:19:42pm



FOR PERMITTING ONLY - THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE OR SALES.
GERARD M. LEGENDRE, P.L.S., LA. LAND SURVEYOR REG. NO. 4966

NO.	DATE	REV. BY:
-----	------	----------

REVISION

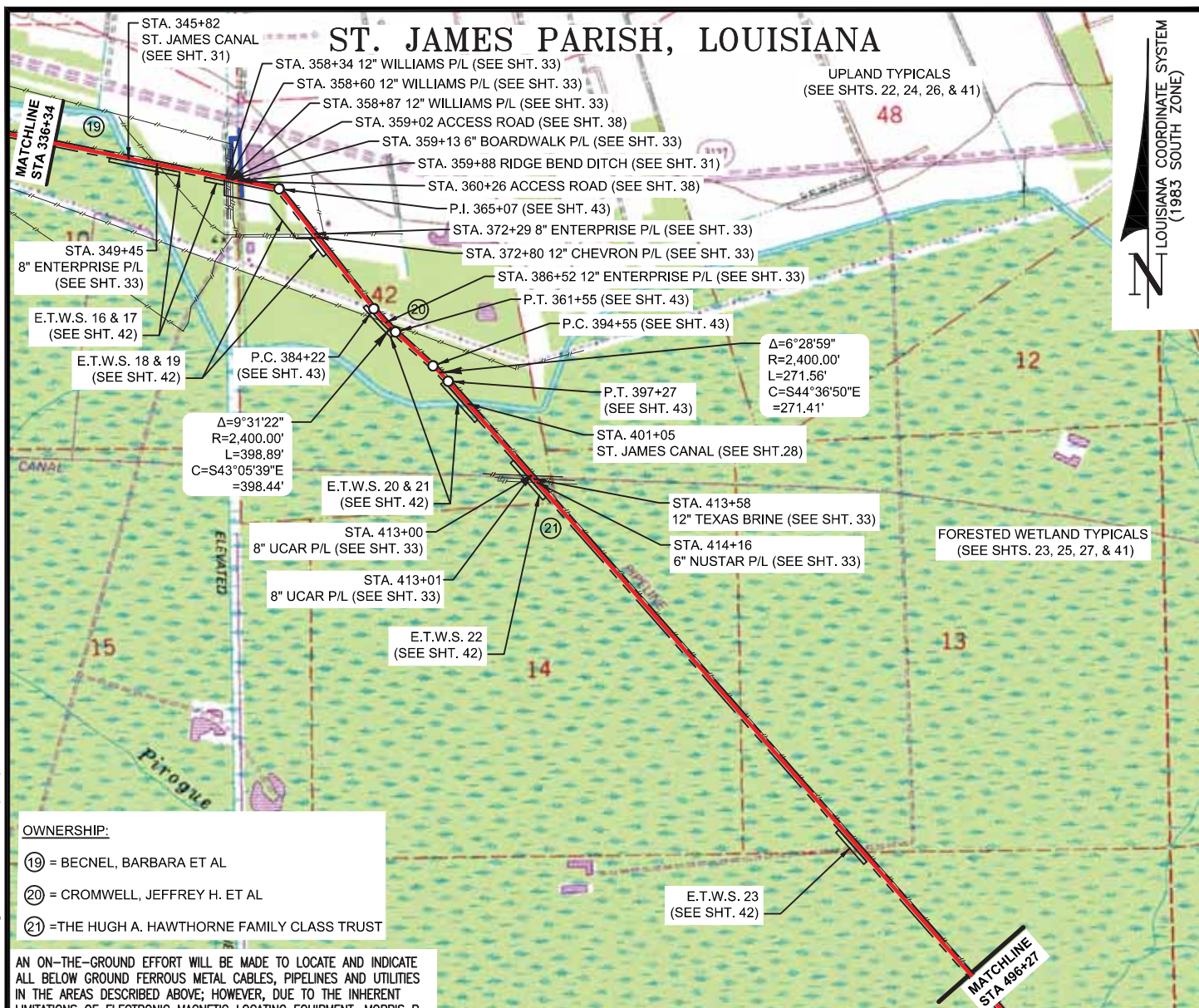


**PLAN VIEW NO. 2
PROPOSED 30" PIPELINE
ST. JAMES TO LOOP
ST. JAMES PARISH, LOUISIANA
STA 182+79 TO STA 336+34**



DRAWN BY:	MPH	SHEET:	3
CHKD./APPD. BY:	GML	SCALE:	1" = 2000'
UPDATED BY:		DATE:	02/28/19
DATA BASE:	13111	JOB NO.	13111-00
MPH CAD FILE: 13111COE0003A0.DWG			

P:\01-Survey_Projects\Phillips 66\13111 ACE\DWG\Permits\COE\13111COE0004A0.dwg PLOT DATE: 4/11/19 10:45:31am



OWNERSHIP:

- (19) = BECNEL, BARBARA ET AL
- (20) = CROMWELL, JEFFREY H. ET AL
- (21) = THE HUGH A. HAWTHORNE FAMILY CLASS TRUST

AN ON-THE-GROUND EFFORT WILL BE MADE TO LOCATE AND INDICATE ALL BELOW GROUND FERROUS METAL CABLES, PIPELINES AND UTILITIES IN THE AREAS DESCRIBED ABOVE; HOWEVER, DUE TO THE INHERENT LIMITATIONS OF ELECTRONIC MAGNETIC LOCATING EQUIPMENT, MORRIS P. HEBERT, INC. IS NOT RESPONSIBLE FOR ANY CABLES, PIPELINES, UTILITIES OR ANY OTHER BELOW GROUND STRUCTURES (INCLUDING PVC) NOT LOCATED DURING THE COURSE OF THE SURVEY. MPH'S EFFORTS DO NOT RELIEVE THE LA ONE CALL RESPONSIBILITY PRIOR TO MOBILIZATION OF EQUIPMENT AND OR EXCAVATION.

FOR PERMITTING ONLY - THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE OR SALES.
GERARD M. LEGENDRE, P.L.S., LA. LAND SURVEYOR REG. NO. 4966

NO. DATE REV. BY:

REVISION

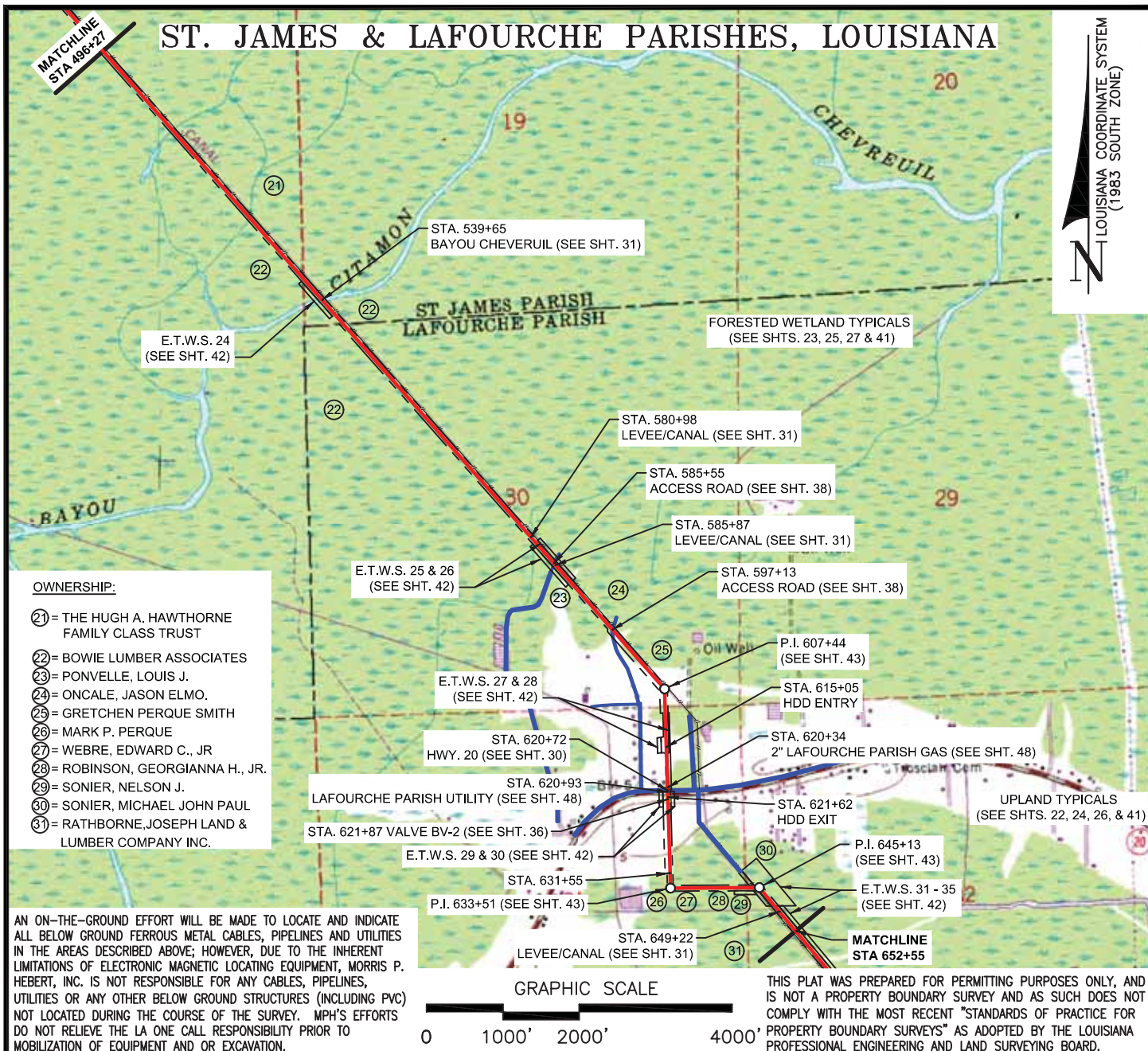


PLAN VIEW NO. 3
PROPOSED 30" PIPELINE
ST. JAMES TO LOOP
ST. JAMES PARISH, LOUISIANA
STA 336+34 TO STA 496+27



DRAWN BY:	MPH	SHEET:	4
CHKD./APPD. BY:	GML	SCALE:	1" = 2000'
UPDATED BY:		DATE:	04/10/19
DATA BASE:	13111	JOB NO.	13111-00
MPH CAD FILE: 13111COE0004A0.DWG			

P:\01-Survey_Projects\Phillips 66\13111 ACE\DWG\Permits\COE\13111COE0005A0.dwg PLOT DATE: 2/27/19 2:24:30pm



FOR PERMITTING ONLY - THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE OR SALES.
GERARD M. LEGENDRE, P.L.S., LA. LAND SURVEYOR REG. NO. 4966

NO.	DATE	REV. BY:	REVISION

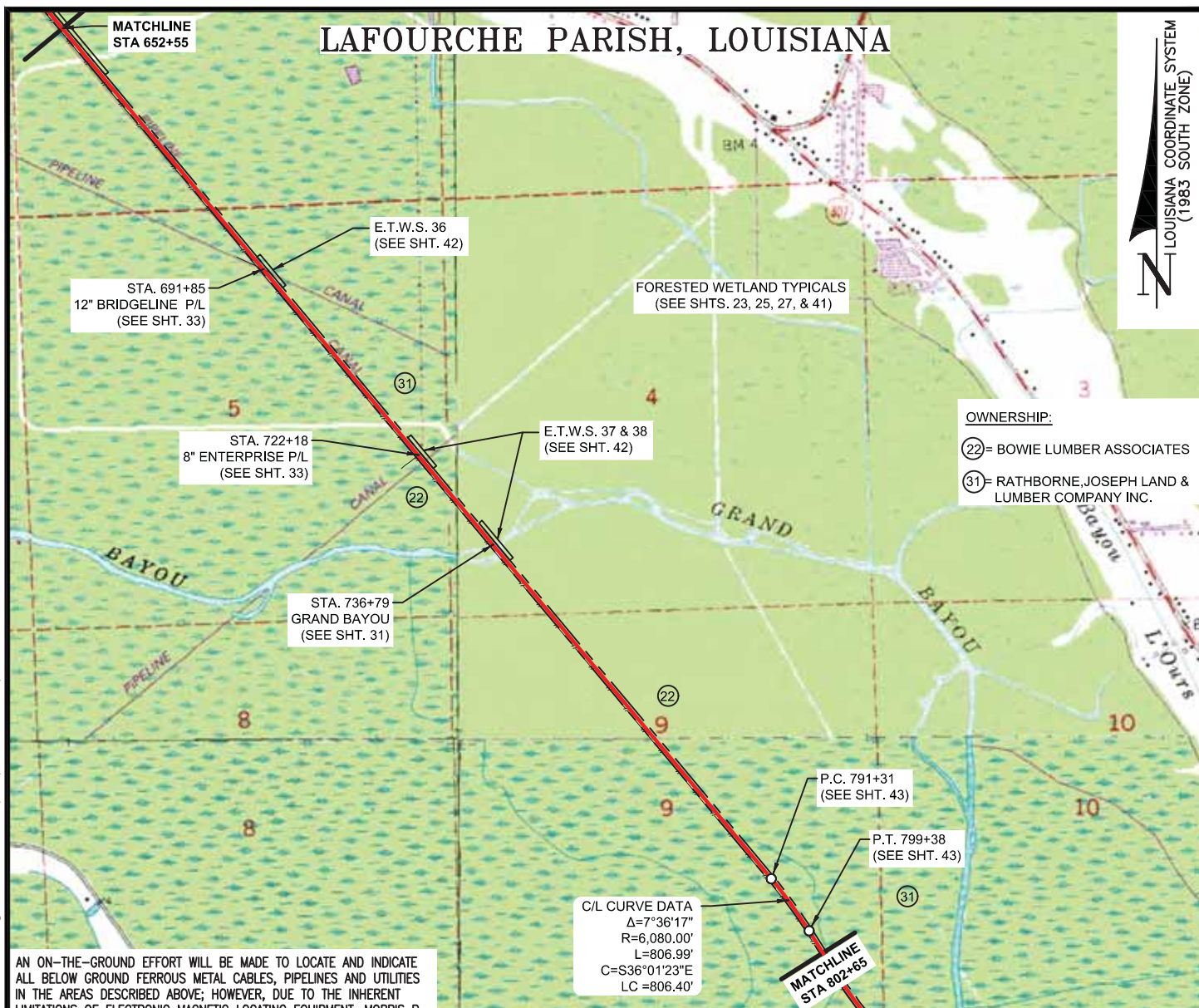


**PLAN VIEW NO. 4
PROPOSED 30" PIPELINE
ST. JAMES TO LOOP
ST. JAMES & LAFOURCHE PARISHES, LOUISIANA
STA 496+27 TO STA 652+55**



DRAWN BY:	MPH	SHEET:	5
CHKD./APPD. BY:	GML	SCALE:	1" = 2000'
UPDATED BY:		DATE:	02/28/19
DATA BASE:	13111	JOB NO.	13111-00
MPH CAD FILE: 13111COE0005A0.DWG			

P:\01-Survey_Projects\Phillips 66\13111 ACE\DWG\Permits\COE\13111COE0006A0.dwg PLOT DATE: 2/27/19 2:27:40pm



AN ON-THE-GROUND EFFORT WILL BE MADE TO LOCATE AND INDICATE ALL BELOW GROUND FERROUS METAL CABLES, PIPELINES AND UTILITIES IN THE AREAS DESCRIBED ABOVE; HOWEVER, DUE TO THE INHERENT LIMITATIONS OF ELECTRONIC MAGNETIC LOCATING EQUIPMENT, MORRIS P. HEBERT, INC. IS NOT RESPONSIBLE FOR ANY CABLES, PIPELINES, UTILITIES OR ANY OTHER BELOW GROUND STRUCTURES (INCLUDING PVC) NOT LOCATED DURING THE COURSE OF THE SURVEY. MPH'S EFFORTS DO NOT RELIEVE THE LA ONE CALL RESPONSIBILITY PRIOR TO MOBILIZATION OF EQUIPMENT AND OR EXCAVATION.

C/L CURVE DATA
 $\Delta=7^{\circ}36'17''$
 $R=6,080.00'$
 $L=806.99'$
 $C=S36^{\circ}01'23''E$
 $LC=806.40'$

GRAPHIC SCALE

0 1000' 2000' 4000'

THIS PLAT WAS PREPARED FOR PERMITTING PURPOSES ONLY, AND IS NOT A PROPERTY BOUNDARY SURVEY AND AS SUCH DOES NOT COMPLY WITH THE MOST RECENT "STANDARDS OF PRACTICE FOR PROPERTY BOUNDARY SURVEYS" AS ADOPTED BY THE LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD.

FOR PERMITTING ONLY - THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE OR SALES.
GERARD M. LEGENDRE, P.L.S., LA. LAND SURVEYOR REG. NO. 4966

NO.	DATE	REV. BY:
-----	------	----------

REVISION

ACE
PIPELINE LLC

VIEW PLAN NO. 5
PROPOSED 30" PIPELINE
ST. JAMES TO LOOP
LAFOURCHE PARISH, LOUISIANA
STA 652+55 TO STA 802+65

mph
Morris P. Hebert, Inc.
SURVEYING • ENGINEERING • ENVIRONMENTAL • GIS
P.O. BOX 3106 • 283 CORPORATE DRIVE • HOUMA, LOUISIANA 70361 • (985) 879-2731
HOUMA, LA. • HOUSTON, TX. • SAN ANTONIO, TX. • MIDLAND, TX.
TEXAS SURVEY FIRM REGISTRATION NUMBER: 10193786 (HOUMA OFFICE)

DRAWN BY: MPH	SHEET: 6
CHKD./APPD. BY: GML	SCALE: 1" = 2000'
UPDATED BY:	DATE: 02/28/19
DATA BASE: 13111	JOB NO. 13111-00
MPH CAD FILE: 13111COE0006A0.DWG	

LAFOURCHE PARISH, LOUISIANA

LOUISIANA COORDINATE SYSTEM
(1983 SOUTH ZONE)

FORESTED WETLAND TYPICALS
(SEE SHTS. 23, 25, 27, & 41)

OWNERSHIP:

- (22) = BOWIE LUMBER ASSOCIATES
- (31) = RATHBORNE, JOSEPH LAND & LUMBER COMPANY INC.
- (32) = LAFOURCHE PARISH SCHOOL BOARD
- (33) = MACDIARMID, MARTIN A., JR.
- (34) = LAUREL VALLEY PLANTATION, INC.

P:\01-Survey_Projects\Phillips 66\13111 COE\DWG\Permits\COE\13111COE0007A0.dwg PLOT DATE: 4/12/19 4:24:26pm

AN ON-THE-GROUND EFFORT WILL BE MADE TO LOCATE AND INDICATE ALL BELOW GROUND FERROUS METAL CABLES, PIPELINES AND UTILITIES IN THE AREAS DESCRIBED ABOVE; HOWEVER, DUE TO THE INHERENT LIMITATIONS OF ELECTRONIC MAGNETIC LOCATING EQUIPMENT, MORRIS P. HEBERT, INC. IS NOT RESPONSIBLE FOR ANY CABLES, PIPELINES, UTILITIES OR ANY OTHER BELOW GROUND STRUCTURES (INCLUDING PVC) NOT LOCATED DURING THE COURSE OF THE SURVEY. MPH'S EFFORTS DO NOT RELIEVE THE LA ONE CALL RESPONSIBILITY PRIOR TO MOBILIZATION OF EQUIPMENT AND OR EXCAVATION.



THIS PLAT WAS PREPARED FOR PERMITTING PURPOSES ONLY, AND IS NOT A PROPERTY BOUNDARY SURVEY AND AS SUCH DOES NOT COMPLY WITH THE MOST RECENT "STANDARDS OF PRACTICE FOR PROPERTY BOUNDARY SURVEYS" AS ADOPTED BY THE LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD.

FOR PERMITTING ONLY - THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE OR SALES.
GERARD M. LEGENDRE, P.L.S., LA. LAND SURVEYOR REG. NO. 4966

NO.	DATE	REV. BY:

REVISION

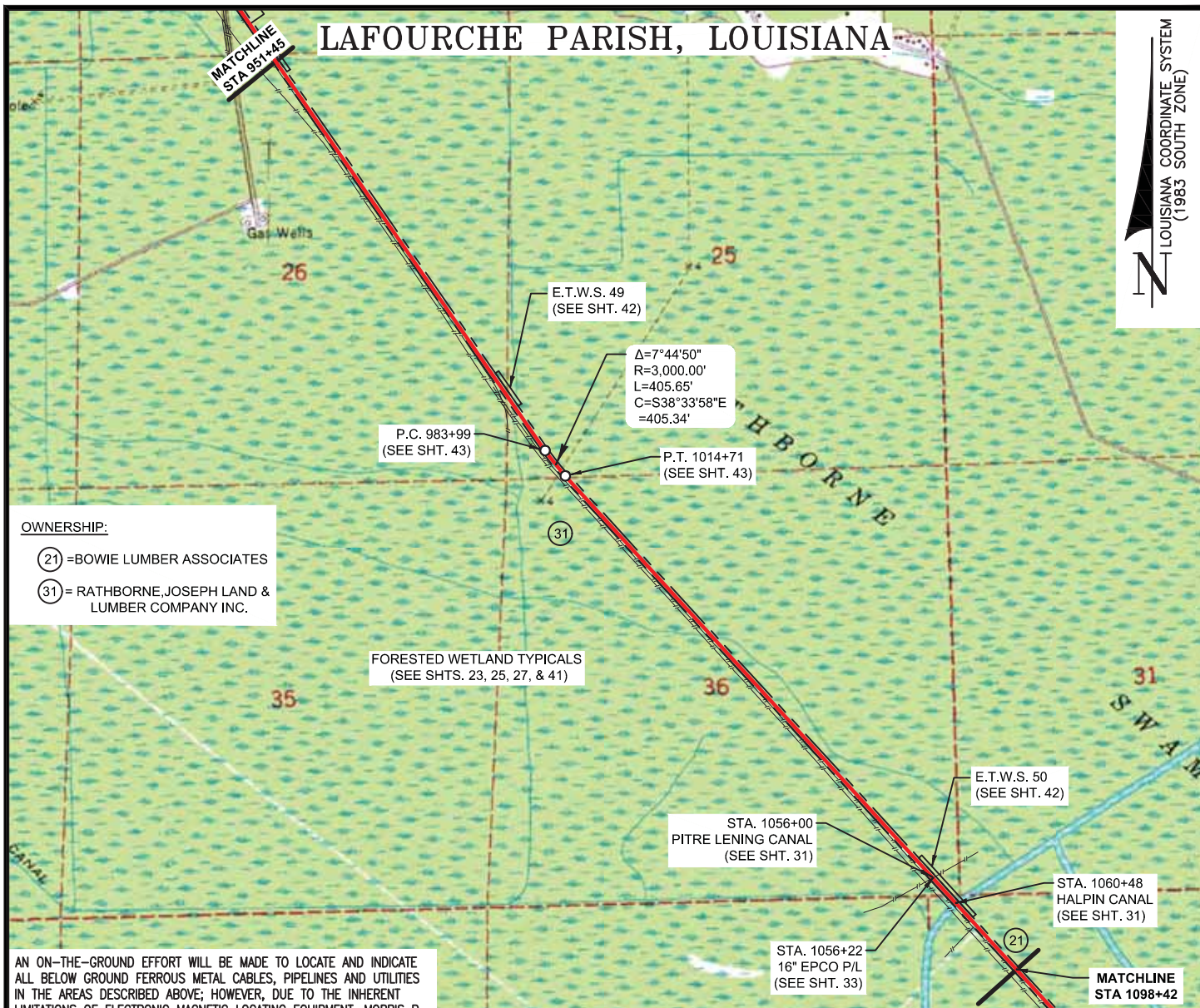
ACE
PIPELINE LLC

PLAN VIEW NO. 6
PROPOSED 30" PIPELINE
ST. JAMES TO LOOP
LAFOURCHE PARISH, LOUISIANA
STA 802+65 TO 951+45

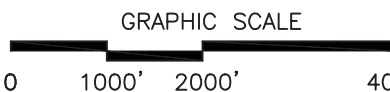
mph
Morris P. Hebert, Inc.
SURVEYING • ENGINEERING • ENVIRONMENTAL • GIS
P.O. BOX 3106 • 283 CORPORATE DRIVE • HOUMA, LOUISIANA 70361 • (985) 879-2731
HOUMA, LA. • HOUSTON, TX. • SAN ANTONIO, TX. • MIDLAND, TX.
TEXAS SURVEY FIRM REGISTRATION NUMBER: 10193786 (HOUMA OFFICE)

DRAWN BY: MPH	SHEET: 7
CHKD./APPD. BY: GML	SCALE: 1" = 2000'
UPDATED BY:	DATE: 04/12/19
DATA BASE: 13111	JOB NO. 13111-00
MPH CAD FILE: 13111COE0007A0.DWG	

P:\01-Survey_Projects\Phillips 66\13111 ACE\DWG\Permits\COE\13111COE008A0.dwg PLOT DATE: 4/11/19 11:13:24am



AN ON-THE-GROUND EFFORT WILL BE MADE TO LOCATE AND INDICATE ALL BELOW GROUND FERROUS METAL CABLES, PIPELINES AND UTILITIES IN THE AREAS DESCRIBED ABOVE; HOWEVER, DUE TO THE INHERENT LIMITATIONS OF ELECTRONIC MAGNETIC LOCATING EQUIPMENT, MORRIS P. HEBERT, INC. IS NOT RESPONSIBLE FOR ANY CABLES, PIPELINES, UTILITIES OR ANY OTHER BELOW GROUND STRUCTURES (INCLUDING PVC) NOT LOCATED DURING THE COURSE OF THE SURVEY. MPH'S EFFORTS DO NOT RELIEVE THE LA ONE CALL RESPONSIBILITY PRIOR TO MOBILIZATION OF EQUIPMENT AND OR EXCAVATION.



THIS PLAT WAS PREPARED FOR PERMITTING PURPOSES ONLY, AND IS NOT A PROPERTY BOUNDARY SURVEY AND AS SUCH DOES NOT COMPLY WITH THE MOST RECENT "STANDARDS OF PRACTICE FOR PROPERTY BOUNDARY SURVEYS" AS ADOPTED BY THE LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD.

FOR PERMITTING ONLY - THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE OR SALES.
GERARD M. LEGENDRE, P.L.S., LA. LAND SURVEYOR REG. NO. 4966

NO.	DATE	REV. BY:	REVISION
-----	------	----------	----------

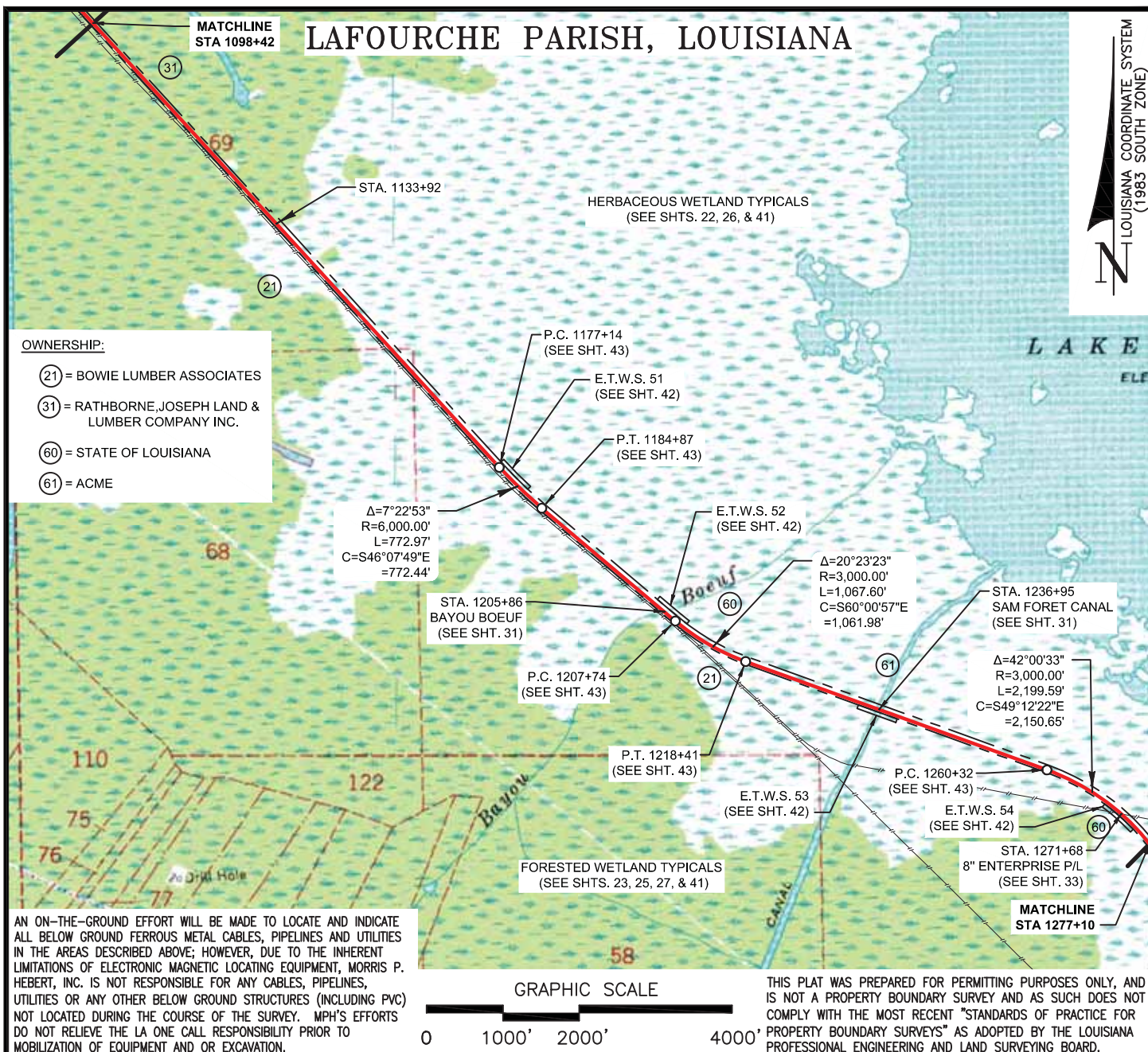


PLAN VIEW NO. 7
PROPOSED 30" PIPELINE
ST. JAMES TO LOOP
LAFOURCHE PARISH, LOUISIANA
STA 951+45 TO STA 1098+42

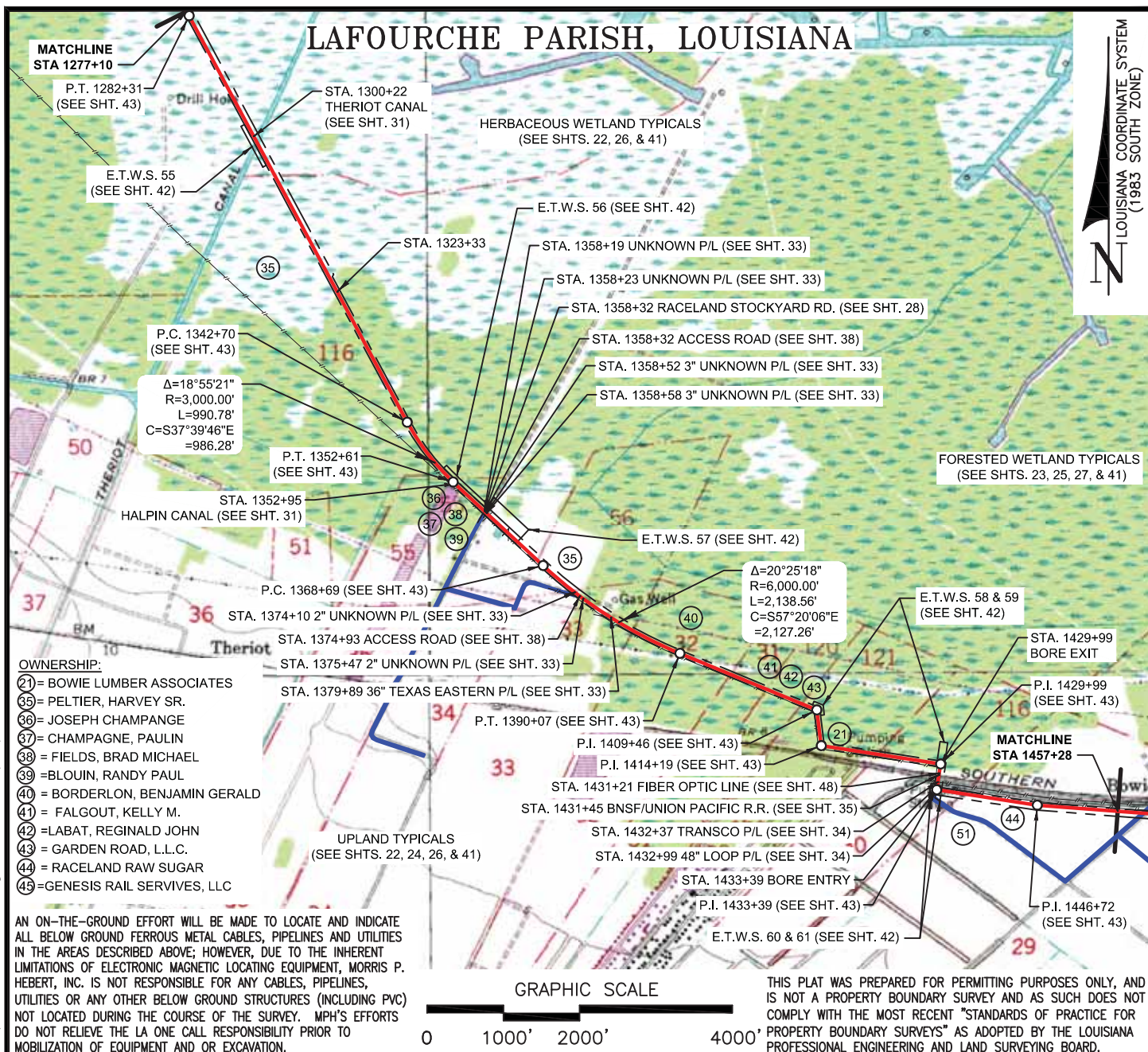


DRAWN BY:	MPH	SHEET:	8
CHKD./APPD. BY:	GML	SCALE:	1" = 2000'
UPDATED BY:		DATE:	04/10/19
DATA BASE:	13111	JOB NO.	13111-00
MPH CAD FILE: 13111COE008A0.DWG			

P:\01-Survey_Projects\Phillips 66\13111 ACE\DWG\Permits\COE\13111COE0009A0.dwg PLOT DATE: 2/27/19 2:34:21pm



P:\01-Survey_Projects\Phillips 66\13111 ACE\DWG\Permits\COE\13111COE0010A0.dwg PLOT DATE: 4/11/19 11:21:16am



FOR PERMITTING ONLY - THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE OR SALES.
GERARD M. LEGENDRE, P.L.S., LA. LAND SURVEYOR REG. NO. 4966

NO.	DATE	REV. BY:
-----	------	----------

REVISION

ACE
PIPELINE LLC

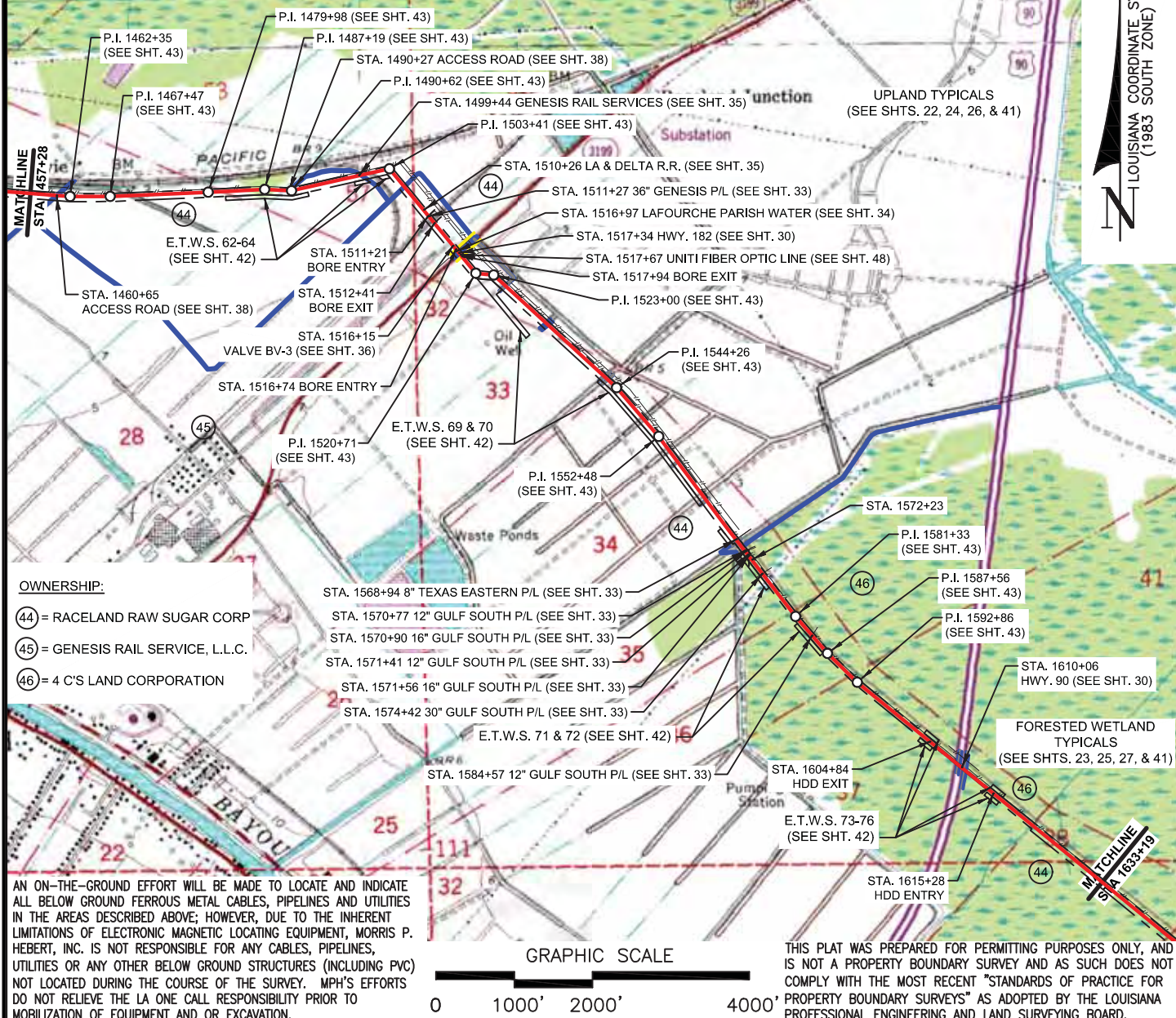
PLAN VIEW NO. 9
PROPOSED 30" PIPELINE
ST. JAMES TO LOOP
LAFOURCHE PARISH, LOUISIANA
STA 1277+10 TO STA 1457+28

mph
Morris P. Hebert, Inc.
SURVEYING • ENGINEERING • ENVIRONMENTAL • GIS
P.O. BOX 3106 • 283 CORPORATE DRIVE • HOUMA, LOUISIANA 70361 • (985) 879-2731
HOUMA, LA. • HOUSTON, TX. • SAN ANTONIO, TX. • MIDLAND, TX.
TEXAS SURVEY FIRM REGISTRATION NUMBER: 10193786 (HOUMA OFFICE)

DRAWN BY: MPH	SHEET: 10
CHKD./APPD. BY: GML	SCALE: 1" = 2000'
UPDATED BY:	DATE: 04/10/19
DATA BASE: 13111	JOB NO. 13111-00
MPH CAD FILE: 13111COE0010A0.DWG	

P:\01-Survey_Projects\Phillips 66\13111 ACE\DWG\Permits\COE\13111COE0011A0.dwg PLOT DATE: 3/25/19 3:01:04pm

LAFOURCHE PARISH, LOUISIANA



OWNERSHIP:

- (44) = RACELAND RAW SUGAR CORP
- (45) = GENESIS RAIL SERVICE, L.L.C.
- (46) = 4 C'S LAND CORPORATION

AN ON-THE-GROUND EFFORT WILL BE MADE TO LOCATE AND INDICATE ALL BELOW GROUND FERROUS METAL CABLES, PIPELINES AND UTILITIES IN THE AREAS DESCRIBED ABOVE; HOWEVER, DUE TO THE INHERENT LIMITATIONS OF ELECTRONIC MAGNETIC LOCATING EQUIPMENT, MORRIS P. HEBERT, INC. IS NOT RESPONSIBLE FOR ANY CABLES, PIPELINES, UTILITIES OR ANY OTHER BELOW GROUND STRUCTURES (INCLUDING PVC) NOT LOCATED DURING THE COURSE OF THE SURVEY. MPH'S EFFORTS DO NOT RELIEVE THE LA ONE CALL RESPONSIBILITY PRIOR TO MOBILIZATION OF EQUIPMENT AND OR EXCAVATION.

GRAPHIC SCALE

0 1000' 2000' 4000'

THIS PLAT WAS PREPARED FOR PERMITTING PURPOSES ONLY, AND IS NOT A PROPERTY BOUNDARY SURVEY AND AS SUCH DOES NOT COMPLY WITH THE MOST RECENT "STANDARDS OF PRACTICE FOR PROPERTY BOUNDARY SURVEYS" AS ADOPTED BY THE LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD.

FOR PERMITTING ONLY - THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE OR SALES.
GERARD M. LEGENDRE, P.L.S., LA. LAND SURVEYOR REG. NO. 4966

NO.	DATE	REV. BY:
-----	------	----------

REVISION

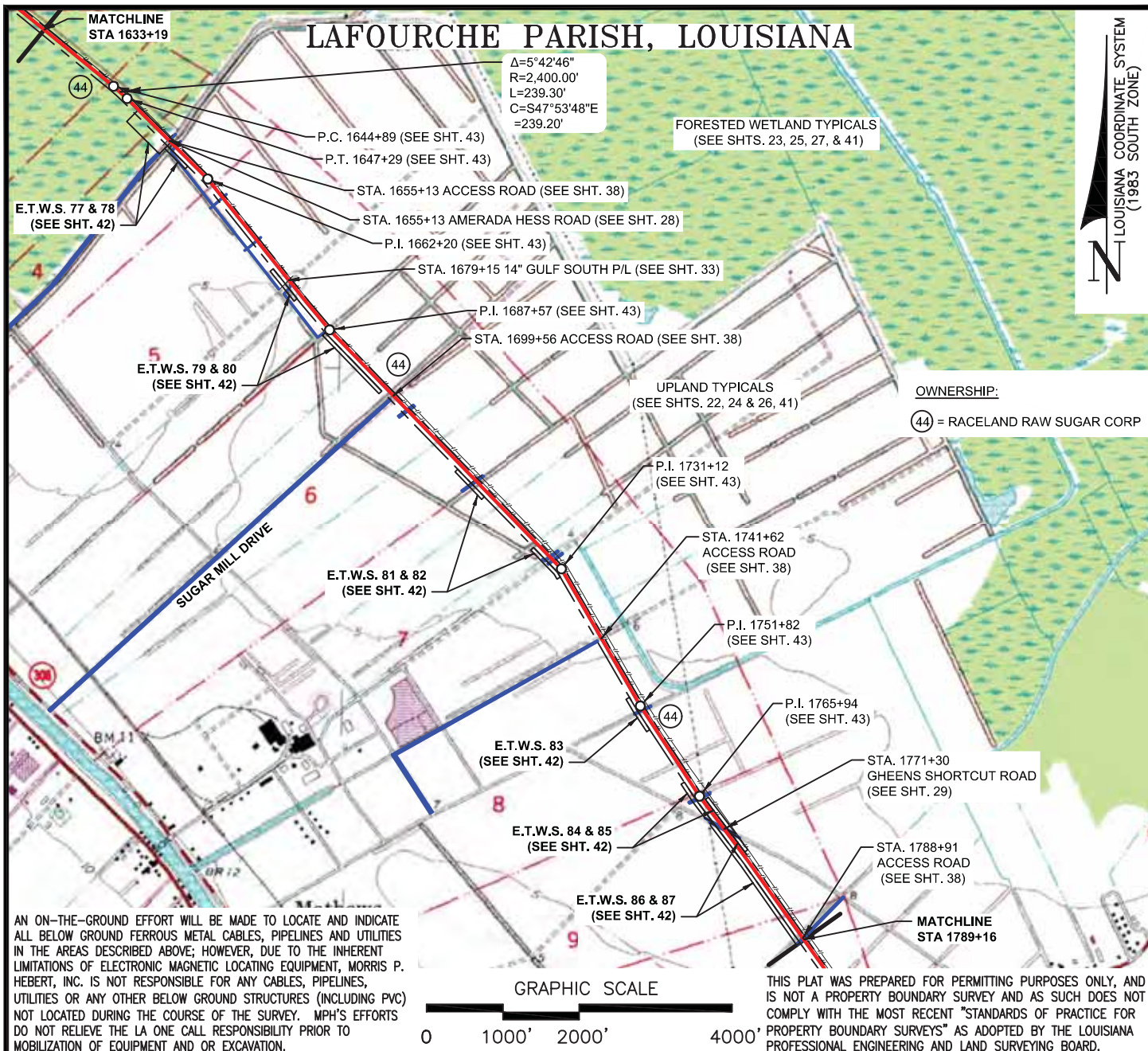
ACE
PIPELINE LLC

PLAN VIEW NO. 10
PROPOSED 30" PIPELINE
ST. JAMES TO LOOP
LAFOURCHE PARISH, LOUISIANA
STA 1457+28 TO STA 1633+19

mph
Morris P. Hebert, Inc.
SURVEYING • ENGINEERING • ENVIRONMENTAL • GIS
P.O. BOX 3106 • 283 CORPORATE DRIVE • HOUMA, LOUISIANA 70361 • (985) 879-2731
HOUMA, LA. • HOUSTON, TX. • SAN ANTONIO, TX. • MIDLAND, TX.
TEXAS SURVEY FIRM REGISTRATION NUMBER: 10193786 (HOUMA OFFICE)

DRAWN BY: MPH	SHEET: 11
CHKD./APPD. BY: GML	SCALE: 1" = 2000'
UPDATED BY:	DATE: 03/25/19
DATA BASE: 13111	JOB NO. 13111-00
MPH CAD FILE: 13111COE0011A0.DWG	

P:\01-Survey_Projects\Phillips 66\13111 ACE\DWG\Permits\COE\13111COE0012A0.dwg PLOT DATE: 4/11/19 11:43:23am



FOR PERMITTING ONLY - THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE OR SALES.
GERARD M. LEGENDRE, P.L.S., LA. LAND SURVEYOR REG. NO. 4966

NO.	DATE	REV. BY:
-----	------	----------

REVISION

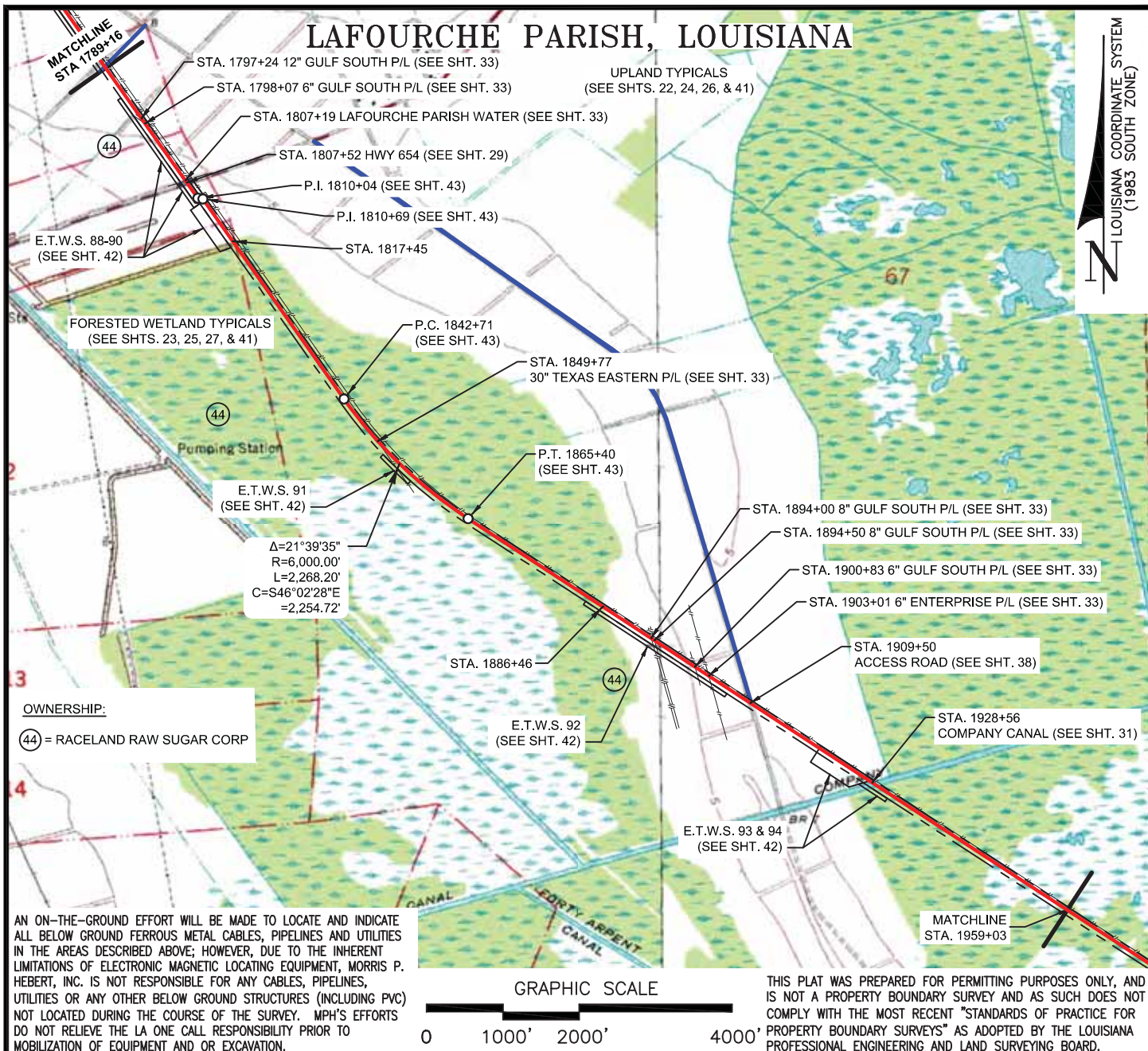


PLAN VIEW NO. 11
PROPOSED 30" PIPELINE
ST. JAMES TO LOOP
LAFOURCHE PARISH, LOUISIANA
STA 1633+19 TO STA 1789+16



DRAWN BY: MPH	SHEET: 12
CHKD./APPD. BY: GML	SCALE: 1" = 2000'
UPDATED BY:	DATE: 04/10/19
DATA BASE: 13111	JOB NO. 13111-00
MPH CAD FILE: 13111COE0012A0.DWG	

P:\01-Survey_Projects\Phillips 66\13111 ACE\DWG\Permits\COE\13111COE0013A0.dwg PLOT DATE: 4/11/19 11:57:20am



FOR PERMITTING ONLY - THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE OR SALES.
GERARD M. LEGENDRE, P.L.S., LA. LAND SURVEYOR REG. NO. 4966

NO.	DATE	REV. BY:	REVISION
-----	------	----------	----------



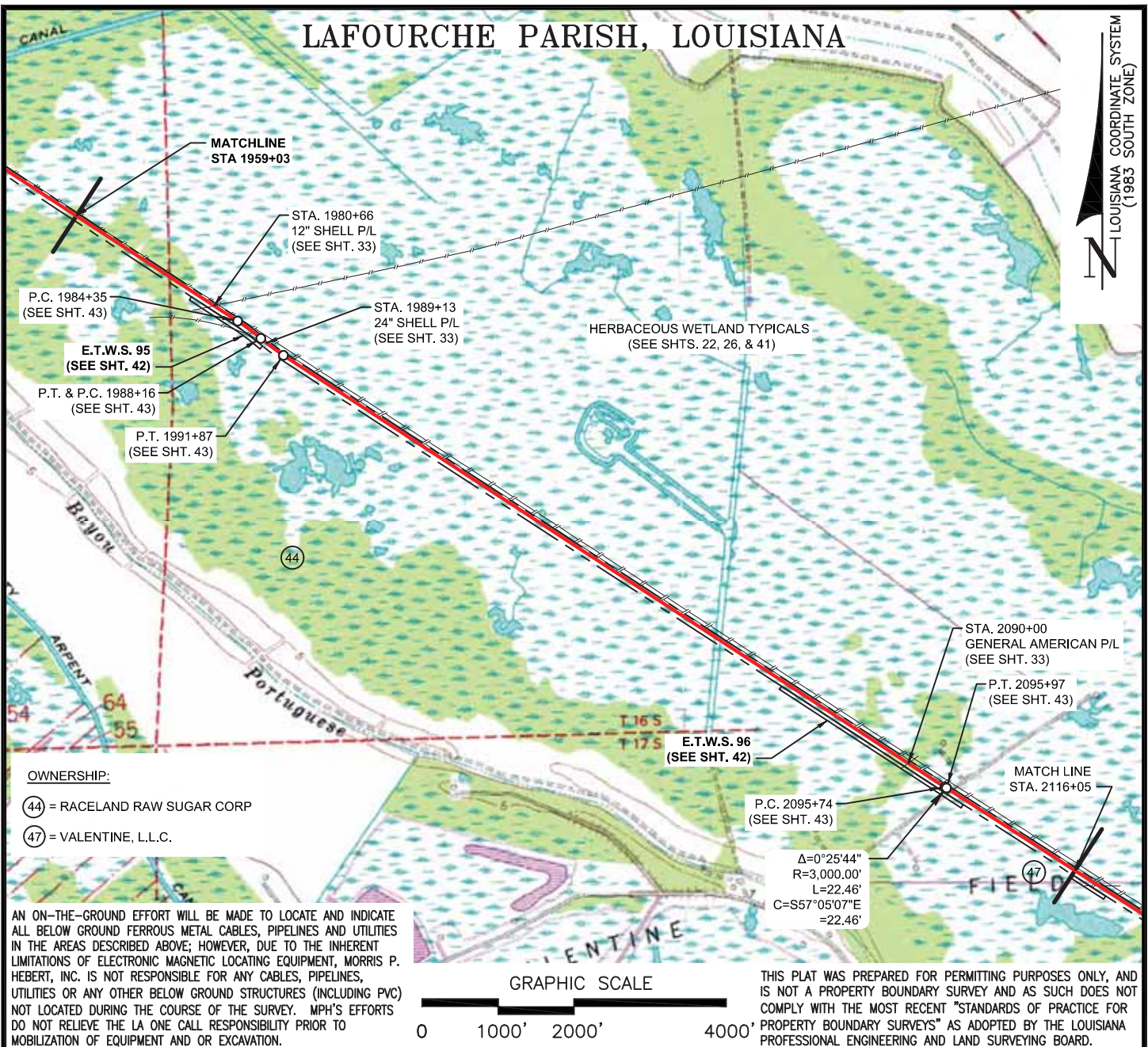
PLAN VIEW NO. 12
PROPOSED 30" PIPELINE
ST. JAMES TO LOOP
LAFOURCHE PARISH, LOUISIANA
STA 1789+16 TO STA 1959+03



DRAWN BY:	MPH	SHEET:	13
CHKD./APPD. BY:	GML	SCALE:	1" = 2000'
UPDATED BY:		DATE:	04/10/19
DATA BASE:	13111	JOB NO.	13111-00
MPH CAD FILE: 13111COE0013A0.DWG			

LAFOURCHE PARISH, LOUISIANA

LOUISIANA COORDINATE SYSTEM
(1983 SOUTH ZONE)



OWNERSHIP:

- (44) = RACELAND RAW SUGAR CORP
- (47) = VALENTINE, L.L.C.

AN ON-THE-GROUND EFFORT WILL BE MADE TO LOCATE AND INDICATE ALL BELOW GROUND FERROUS METAL CABLES, PIPELINES AND UTILITIES IN THE AREAS DESCRIBED ABOVE; HOWEVER, DUE TO THE INHERENT LIMITATIONS OF ELECTRONIC MAGNETIC LOCATING EQUIPMENT, MORRIS P. HEBERT, INC. IS NOT RESPONSIBLE FOR ANY CABLES, PIPELINES, UTILITIES OR ANY OTHER BELOW GROUND STRUCTURES (INCLUDING PVC) NOT LOCATED DURING THE COURSE OF THE SURVEY. MPH'S EFFORTS DO NOT RELIEVE THE LA ONE CALL RESPONSIBILITY PRIOR TO MOBILIZATION OF EQUIPMENT AND OR EXCAVATION.

GRAPHIC SCALE

0 1000' 2000' 4000'

THIS PLAT WAS PREPARED FOR PERMITTING PURPOSES ONLY, AND IS NOT A PROPERTY BOUNDARY SURVEY AND AS SUCH DOES NOT COMPLY WITH THE MOST RECENT "STANDARDS OF PRACTICE FOR PROPERTY BOUNDARY SURVEYS" AS ADOPTED BY THE LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD.

FOR PERMITTING ONLY - THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE OR SALES.
GERARD M. LEGENDRE, P.L.S., LA. LAND SURVEYOR REG. NO. 4966

NO.	DATE	REV. BY:

REVISION

ACE
PIPELINE LLC

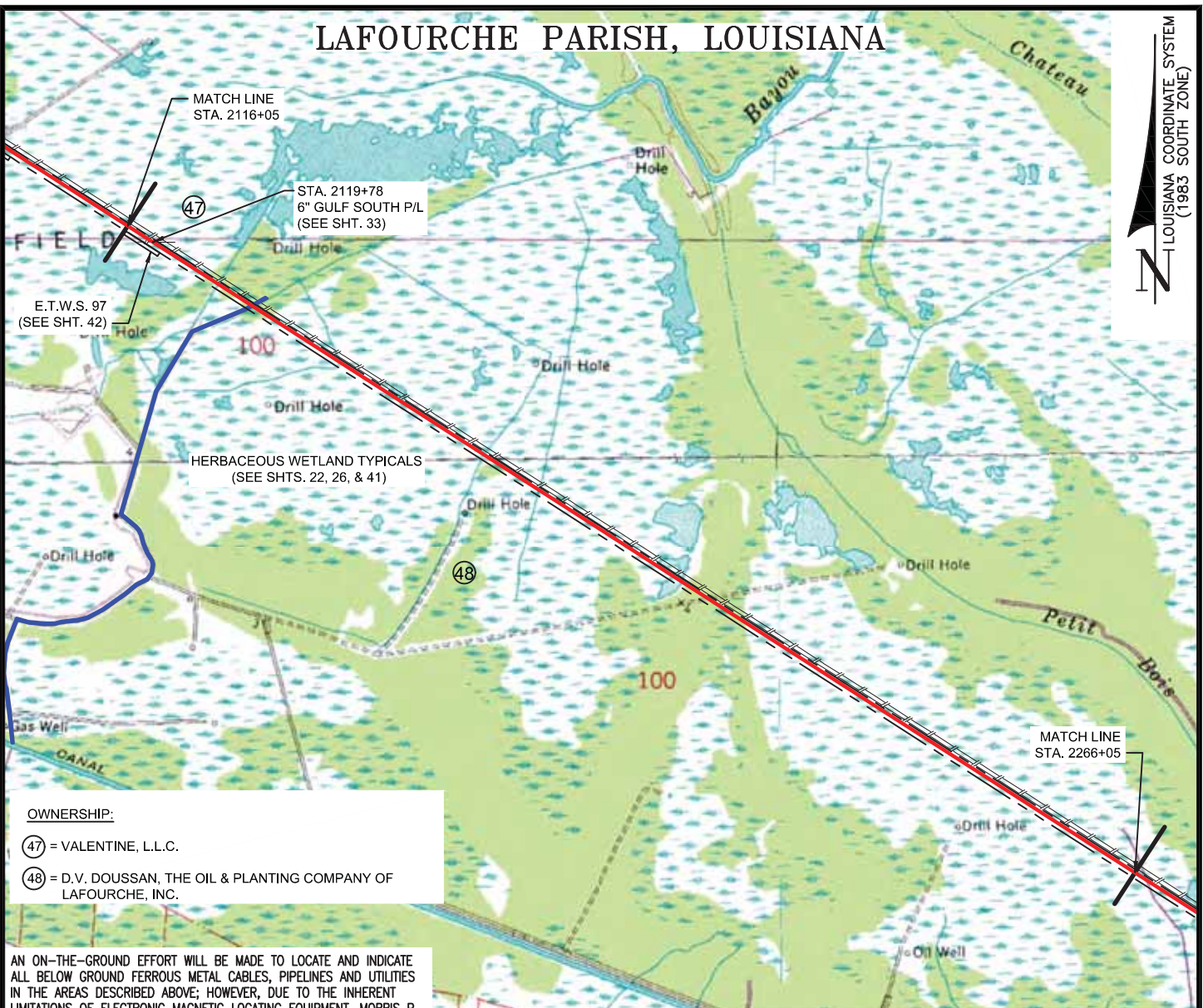
PLAN VIEW NO. 13
PROPOSED 30" PIPELINE
ST. JAMES TO LOOP
LAFOURCHE PARISH, LOUISIANA
STA 1959+03 TO STA 2116+05

mph
Morris P. Hebert, Inc.
SURVEYING • ENGINEERING • ENVIRONMENTAL • GIS
P.O. BOX 3106 • 283 CORPORATE DRIVE • HOUMA, LOUISIANA 70361 • (985) 879-2731
HOUMA, LA. • HOUSTON, TX. • SAN ANTONIO, TX. • MIDLAND, TX.
TEXAS SURVEY FIRM REGISTRATION NUMBER: 10193786 (HOUMA OFFICE)

DRAWN BY: MPH	SHEET: 14
CHKD./APPD. BY: GML	SCALE: 1" = 2000'
UPDATED BY:	DATE: 02/28/19
DATA BASE: 13111	JOB NO. 13111-00
MPH CAD FILE: 13111COE0014A0.DWG	

LAFOURCHE PARISH, LOUISIANA

LOUISIANA COORDINATE SYSTEM
(1983 SOUTH ZONE)



OWNERSHIP:

(47) = VALENTINE, L.L.C.

(48) = D.V. DOUSSAN, THE OIL & PLANTING COMPANY OF LAFOURCHE, INC.

AN ON-THE-GROUND EFFORT WILL BE MADE TO LOCATE AND INDICATE ALL BELOW GROUND FERROUS METAL CABLES, PIPELINES AND UTILITIES IN THE AREAS DESCRIBED ABOVE; HOWEVER, DUE TO THE INHERENT LIMITATIONS OF ELECTRONIC MAGNETIC LOCATING EQUIPMENT, MORRIS P. HEBERT, INC. IS NOT RESPONSIBLE FOR ANY CABLES, PIPELINES, UTILITIES OR ANY OTHER BELOW GROUND STRUCTURES (INCLUDING PVC) NOT LOCATED DURING THE COURSE OF THE SURVEY. MPH'S EFFORTS DO NOT RELIEVE THE LA ONE CALL RESPONSIBILITY PRIOR TO MOBILIZATION OF EQUIPMENT AND OR EXCAVATION.

GRAPHIC SCALE

0 1000' 2000' 4000'

THIS PLAT WAS PREPARED FOR PERMITTING PURPOSES ONLY, AND IS NOT A PROPERTY BOUNDARY SURVEY AND AS SUCH DOES NOT COMPLY WITH THE MOST RECENT "STANDARDS OF PRACTICE FOR PROPERTY BOUNDARY SURVEYS" AS ADOPTED BY THE LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD.

FOR PERMITTING ONLY - THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE OR SALES.
GERARD M. LEGENDRE, P.L.S., LA. LAND SURVEYOR REG. NO. 4966

NO.	DATE	REV. BY:

REVISION

ACE
PIPELINE LLC

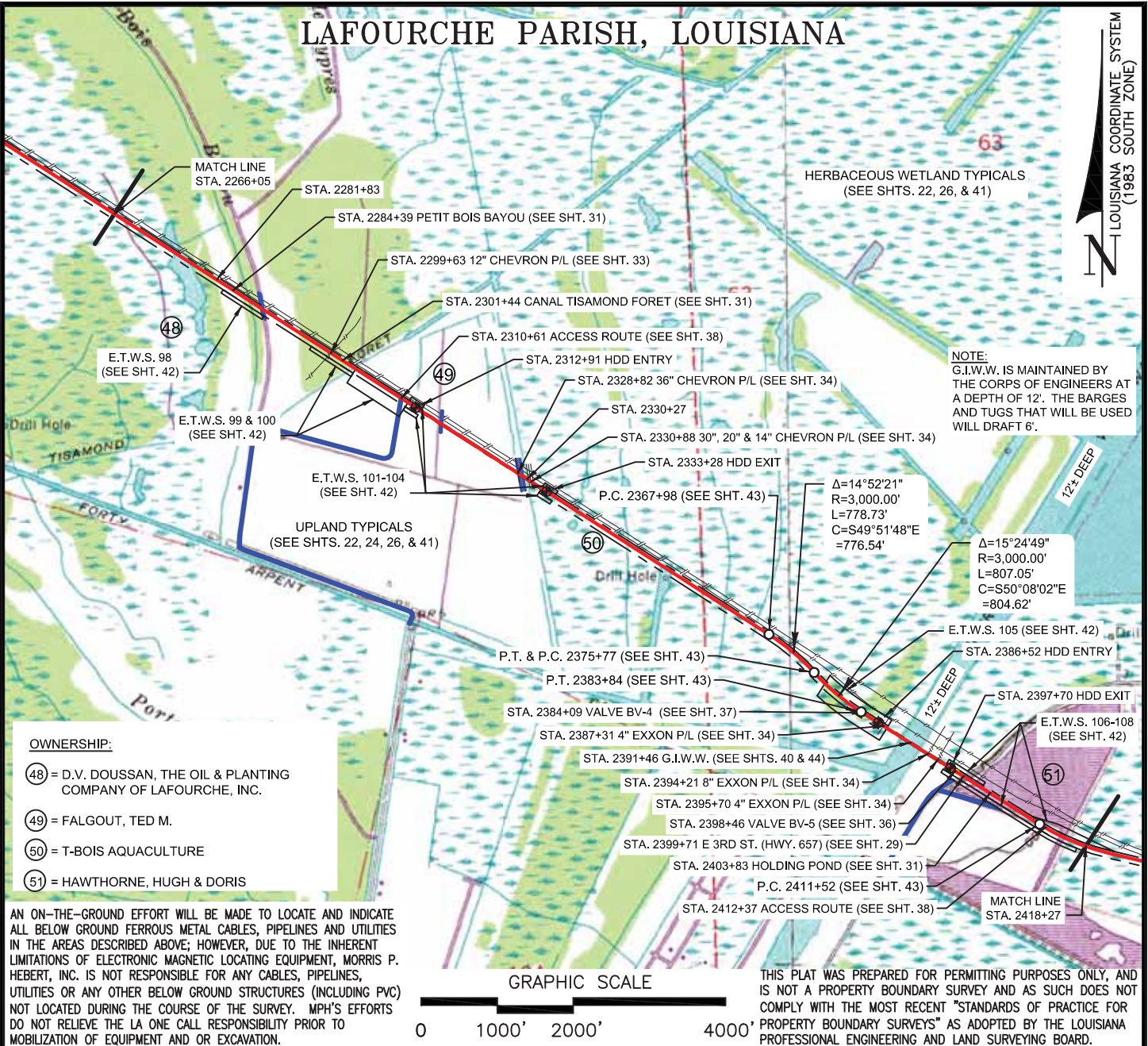
PLAN VIEW NO. 14
PROPOSED 30" PIPELINE
ST. JAMES TO LOOP
LAFOURCHE PARISH, LOUISIANA
STA 2116+05 TO STA 2266+05

mph
Morris P. Hebert, Inc.
SURVEYING • ENGINEERING • ENVIRONMENTAL • GIS
P.O. BOX 3106 • 283 CORPORATE DRIVE • HOUMA, LOUISIANA 70361 • (985) 879-2731
HOUMA, LA. • HOUSTON, TX. • SAN ANTONIO, TX. • MIDLAND, TX.
TEXAS SURVEY FIRM REGISTRATION NUMBER: 10193786 (HOUMA OFFICE)

DRAWN BY: MPH	SHEET: 15
CHKD./APPD. BY: GML	SCALE: 1" = 2000'
UPDATED BY:	DATE: 02/28/19
DATA BASE: 13111	JOB NO. 13111-00
MPH CAD FILE: 13111COE0015A0.DWG	

LAFOURCHE PARISH, LOUISIANA

LOUISIANA COORDINATE SYSTEM
(1983 SOUTH ZONE)



OWNERSHIP:

- (48) = D.V. DOUSSAN, THE OIL & PLANTING COMPANY OF LAFOURCHE, INC.
- (49) = FALGOUT, TED M.
- (50) = T-BOIS AQUACULTURE
- (51) = HAWTHORNE, HUGH & DORIS

AN ON-THE-GROUND EFFORT WILL BE MADE TO LOCATE AND INDICATE ALL BELOW GROUND FERROUS METAL CABLES, PIPELINES AND UTILITIES IN THE AREAS DESCRIBED ABOVE; HOWEVER, DUE TO THE INHERENT LIMITATIONS OF ELECTRONIC MAGNETIC LOCATING EQUIPMENT, MORRIS P. HEBERT, INC. IS NOT RESPONSIBLE FOR ANY CABLES, PIPELINES, UTILITIES OR ANY OTHER BELOW GROUND STRUCTURES (INCLUDING PVC) NOT LOCATED DURING THE COURSE OF THE SURVEY. MPH'S EFFORTS DO NOT RELIEVE THE LA ONE CALL RESPONSIBILITY PRIOR TO MOBILIZATION OF EQUIPMENT AND OR EXCAVATION.

GRAPHIC SCALE

0 1000' 2000' 4000'

THIS PLAT WAS PREPARED FOR PERMITTING PURPOSES ONLY, AND IS NOT A PROPERTY BOUNDARY SURVEY AND AS SUCH DOES NOT COMPLY WITH THE MOST RECENT "STANDARDS OF PRACTICE FOR PROPERTY BOUNDARY SURVEYS" AS ADOPTED BY THE LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD.

FOR PERMITTING ONLY - THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE OR SALES.
GERARD M. LEGENDRE, P.L.S., LA. LAND SURVEYOR REG. NO. 4966

NO.	DATE	REV. BY:

REVISION



PLAN VIEW NO. 15
PROPOSED 30" PIPELINE
ST. JAMES TO LOOP
LAFOURCHE PARISH, LOUISIANA
STA 2266+05 TO STA 2418+27



DRAWN BY:	MPH	SHEET:	16
CHKD./APPD. BY:	GML	SCALE:	1" = 2000'
UPDATED BY:		DATE:	04/10/19
DATA BASE:	13111	JOB NO.	13111-00
MPH CAD FILE: 13111COE0016A0.DWG			

LAFOURCHE PARISH, LOUISIANA

DELTA FARMS

LOUISIANA COORDINATE SYSTEM
(1983 SOUTH ZONE)

OTHER WATER TYPICALS
(SEE SHTS. 22, 26, & 41)

MATCH LINE
STA. 2418+27

P.T. 2424+19
(SEE SHT. 43)

STA. 2455+81
6" TENN. GAS P/L (SEE SHT. 33)

STA. 2462+46

STA. 2472+08
DIXIE DELTA CANAL (SEE SHT. 31)

STA. 2501+28

E.T.W.S. 109
(SEE SHT. 42)

E.T.W.S. 110
(SEE SHT. 42)

HERBACEOUS WETLAND TYPICALS
(SEE SHTS. 22, 26, & 41)

MATCH LINE
STA. 2560+62

OWNERSHIP:

- (51) = HAWTHORNE, HUGH & DORIS
- (52) = PCS LAND CO LLC AND SHU-MC L.L.C.
- (53) = LOUISIANA DELTA FARMS
- (54) = TOMFORDE, JO ALICE W.

AN ON-THE-GROUND EFFORT WILL BE MADE TO LOCATE AND INDICATE ALL BELOW GROUND FERROUS METAL CABLES, PIPELINES AND UTILITIES IN THE AREAS DESCRIBED ABOVE; HOWEVER, DUE TO THE INHERENT LIMITATIONS OF ELECTRONIC MAGNETIC LOCATING EQUIPMENT, MORRIS P. HEBERT, INC. IS NOT RESPONSIBLE FOR ANY CABLES, PIPELINES, UTILITIES OR ANY OTHER BELOW GROUND STRUCTURES (INCLUDING PVC) NOT LOCATED DURING THE COURSE OF THE SURVEY. MPH'S EFFORTS DO NOT RELIEVE THE LA ONE CALL RESPONSIBILITY PRIOR TO MOBILIZATION OF EQUIPMENT AND OR EXCAVATION.

GRAPHIC SCALE

0 1000' 2000' 4000'

THIS PLAT WAS PREPARED FOR PERMITTING PURPOSES ONLY, AND IS NOT A PROPERTY BOUNDARY SURVEY AND AS SUCH DOES NOT COMPLY WITH THE MOST RECENT "STANDARDS OF PRACTICE FOR PROPERTY BOUNDARY SURVEYS" AS ADOPTED BY THE LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD.

FOR PERMITTING ONLY - THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE OR SALES.
GERARD M. LEGENDRE, P.L.S., LA. LAND SURVEYOR REG. NO. 4966

NO. DATE REV. BY:

REVISION

ACE
PIPELINE LLC

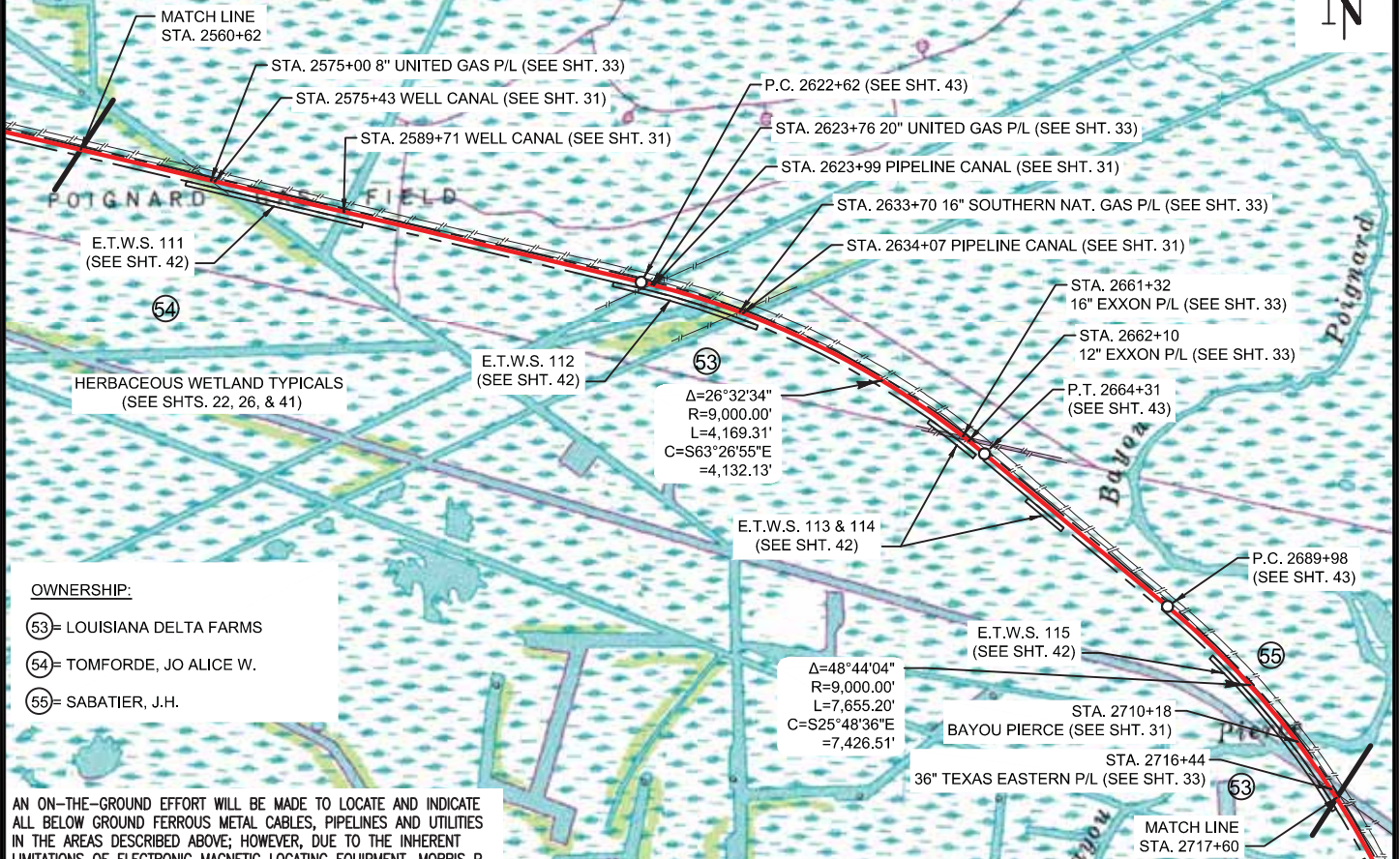
PLAN VIEW NO. 16
PROPOSED 30" PIPELINE
ST. JAMES TO LOOP
LAFOURCHE PARISH, LOUISIANA
STA 2418+27 TO STA 2560+62

mph
Morris P. Hebert, Inc.
SURVEYING • ENGINEERING • ENVIRONMENTAL • GIS
P.O. BOX 3106 • 283 CORPORATE DRIVE • HOUMA, LOUISIANA 70361 • (985) 879-2731
HOUMA, LA. • HOUSTON, TX. • SAN ANTONIO, TX. • MIDLAND, TX.
TEXAS SURVEY FIRM REGISTRATION NUMBER: 10193786 (HOUMA OFFICE)

DRAWN BY: MPH	SHEET: 17
CHKD./APPD. BY: GML	SCALE: 1" = 2000'
UPDATED BY:	DATE: 02/28/19
DATA BASE: 13111	JOB NO. 13111-00
MPH CAD FILE: 13111COE0017A0.DWG	

LAFOURCHE PARISH, LOUISIANA

LOUISIANA COORDINATE SYSTEM
(1983 SOUTH ZONE)



OWNERSHIP:

- (53) = LOUISIANA DELTA FARMS
- (54) = TOMFORDE, JO ALICE W.
- (55) = SABATIER, J.H.

AN ON-THE-GROUND EFFORT WILL BE MADE TO LOCATE AND INDICATE ALL BELOW GROUND FERROUS METAL CABLES, PIPELINES AND UTILITIES IN THE AREAS DESCRIBED ABOVE; HOWEVER, DUE TO THE INHERENT LIMITATIONS OF ELECTRONIC MAGNETIC LOCATING EQUIPMENT, MORRIS P. HEBERT, INC. IS NOT RESPONSIBLE FOR ANY CABLES, PIPELINES, UTILITIES OR ANY OTHER BELOW GROUND STRUCTURES (INCLUDING PVC) NOT LOCATED DURING THE COURSE OF THE SURVEY. MPH'S EFFORTS DO NOT RELIEVE THE LA ONE CALL RESPONSIBILITY PRIOR TO MOBILIZATION OF EQUIPMENT AND OR EXCAVATION.

GRAPHIC SCALE

0 1000' 2000' 4000'

THIS PLAT WAS PREPARED FOR PERMITTING PURPOSES ONLY, AND IS NOT A PROPERTY BOUNDARY SURVEY AND AS SUCH DOES NOT COMPLY WITH THE MOST RECENT "STANDARDS OF PRACTICE FOR PROPERTY BOUNDARY SURVEYS" AS ADOPTED BY THE LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD.

FOR PERMITTING ONLY - THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE OR SALES.
GERARD M. LEGENDRE, P.L.S., LA. LAND SURVEYOR REG. NO. 4966

NO.	DATE	REV. BY:

REVISION

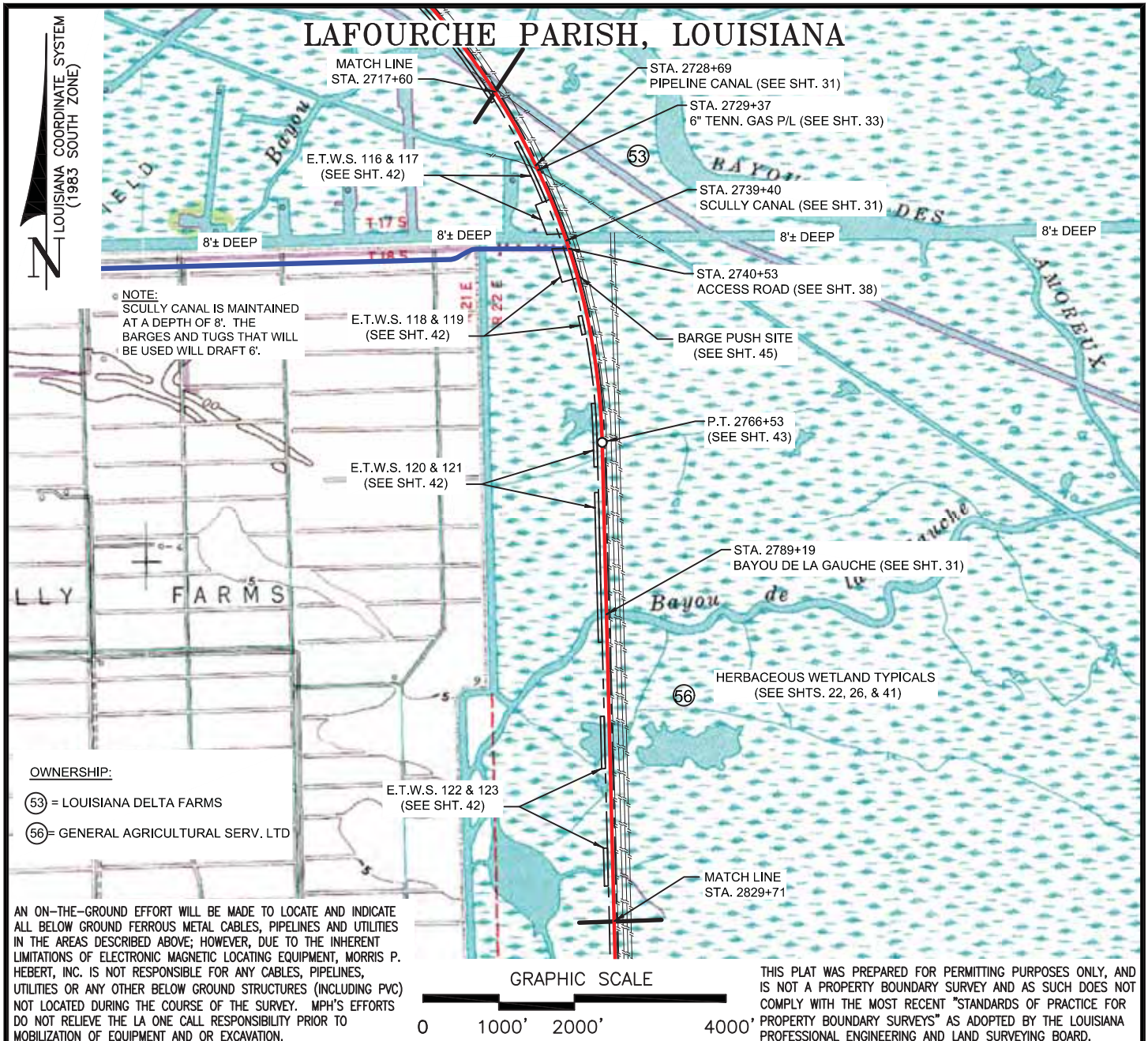


PLAN VIEW NO. 17
PROPOSED 30" PIPELINE
ST. JAMES TO LOOP
LAFOURCHE PARISH, LOUISIANA
STA 2560+62 TO STA 2717+60



DRAWN BY: MPH	SHEET: 18
CHKD./APPD. BY: GML	SCALE: 1" = 2000'
UPDATED BY:	DATE: 02/28/19
DATA BASE: 13111	JOB NO. 13111-00
MPH CAD FILE: 13111COE0018A0.DWG	

P:\01-Survey_Projects\Phillips 66\13111 ACE\DWG\Permits\COE\13111COE0019A0.dwg PLOT DATE: 3/1/19 4:31:19pm



FOR PERMITTING ONLY - THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE OR SALES.
GERARD M. LEGENDRE, P.L.S., LA. LAND SURVEYOR REG. NO. 4966

NO.	DATE	REV. BY:	REVISION
-----	------	----------	----------

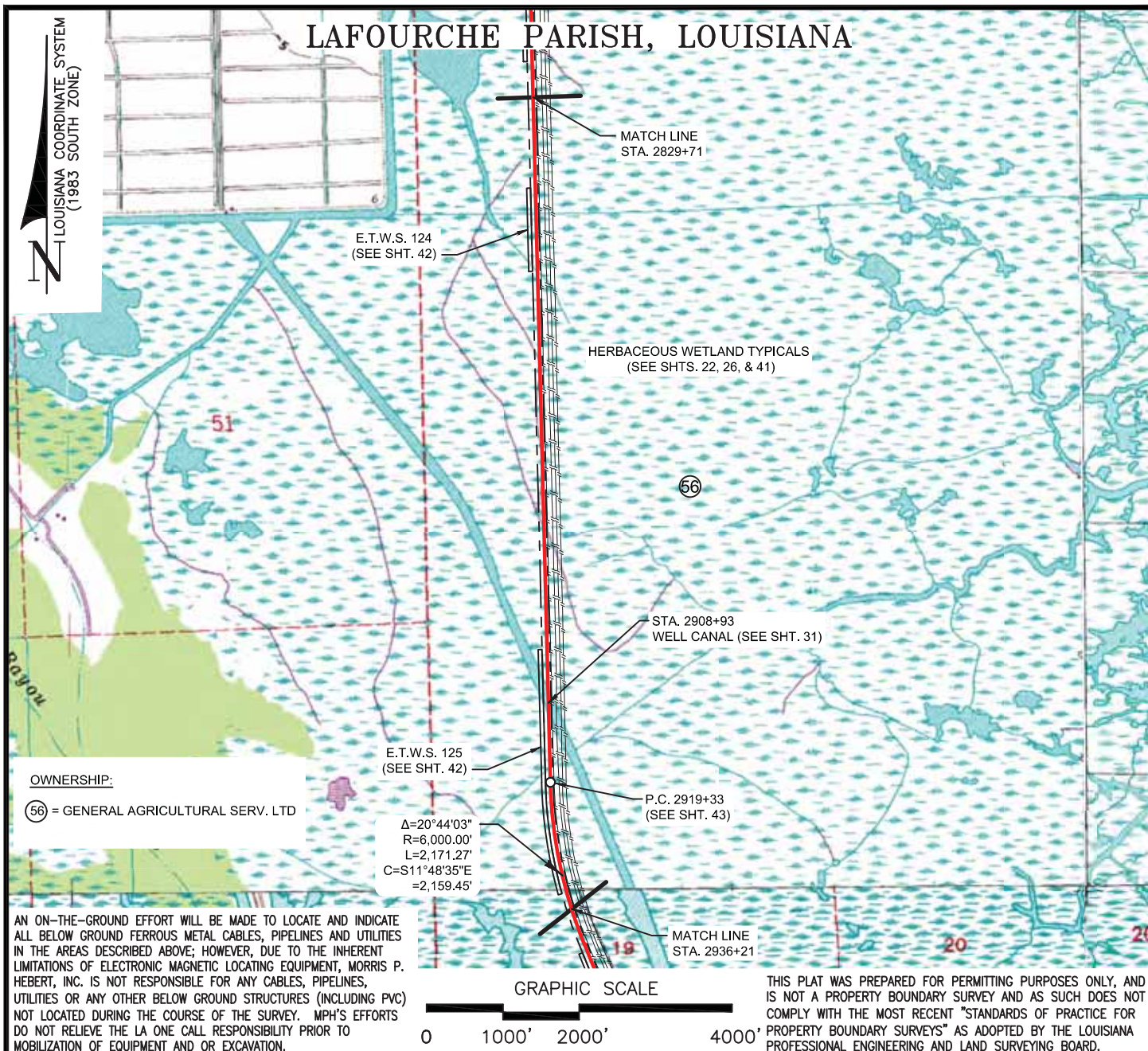


PLAN VIEW NO. 18
PROPOSED 30" PIPELINE
ST. JAMES TO LOOP
LAFOURCHE PARISH, LOUISIANA
STA 2717+60 TO STA 2829+71



DRAWN BY:	MPH	SHEET:	19
CHKD./APPD. BY:	GML	SCALE:	1" = 2000'
UPDATED BY:		DATE:	02/28/19
DATA BASE:	13111	JOB NO.	13111-00
MPH CAD FILE: 13111COE0019A0.DWG			

P:\01-Survey_Projects\Phillips 66\13111 ACE\DWG\Permits\COE\13111COE0020A0.dwg PLOT DATE: 2/27/19 3:04:46pm



FOR PERMITTING ONLY - THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE OR SALES.
GERARD M. LEGENDRE, P.L.S., LA. LAND SURVEYOR REG. NO. 4966

NO.	DATE	REV. BY:	REVISION
-----	------	----------	----------



PLAN VIEW NO. 19
PROPOSED 30" PIPELINE
ST. JAMES TO LOOP
LAFOURCHE PARISH, LOUISIANA
STA 2829+71 TO STA 2936+21

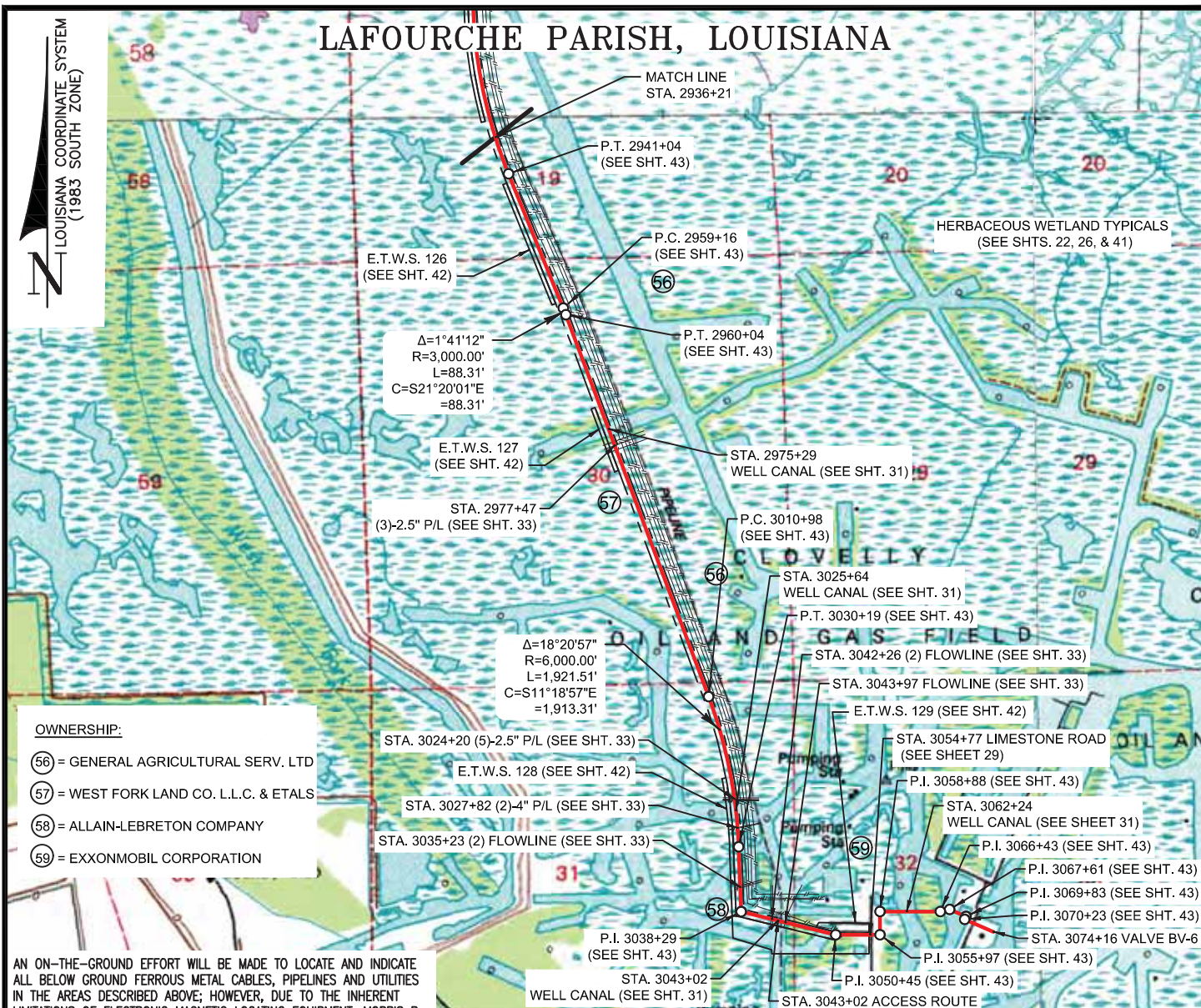


DRAWN BY:	MPH	SHEET:	20
CHKD./APPD. BY:	GML	SCALE:	1" = 2000'
UPDATED BY:		DATE:	02/28/19
DATA BASE:	13111	JOB NO.	13111-00
MPH CAD FILE: 13111COE0020A0.DWG			

P:\01-Survey_Projects\Phillips 66\13111 ACE\DWG\Permits\COE\13111COE0021A0.dwg PLOT DATE: 3/1/19 4:48:25pm

LAFOURCHE PARISH, LOUISIANA

LOUISIANA COORDINATE SYSTEM
(1983 SOUTH ZONE)



OWNERSHIP:

- (56) = GENERAL AGRICULTURAL SERV. LTD
- (57) = WEST FORK LAND CO. L.L.C. & ETALS
- (58) = ALLAIN-LEBRETON COMPANY
- (59) = EXXONMOBIL CORPORATION

AN ON-THE-GROUND EFFORT WILL BE MADE TO LOCATE AND INDICATE ALL BELOW GROUND FERROUS METAL CABLES, PIPELINES AND UTILITIES IN THE AREAS DESCRIBED ABOVE; HOWEVER, DUE TO THE INHERENT LIMITATIONS OF ELECTRONIC MAGNETIC LOCATING EQUIPMENT, MORRIS P. HEBERT, INC. IS NOT RESPONSIBLE FOR ANY CABLES, PIPELINES, UTILITIES OR ANY OTHER BELOW GROUND STRUCTURES (INCLUDING PVC) NOT LOCATED DURING THE COURSE OF THE SURVEY. MPH'S EFFORTS DO NOT RELIEVE THE LA ONE CALL RESPONSIBILITY PRIOR TO MOBILIZATION OF EQUIPMENT AND OR EXCAVATION.

GRAPHIC SCALE

0 1000' 2000' 4000'

THIS PLAT WAS PREPARED FOR PERMITTING PURPOSES ONLY, AND IS NOT A PROPERTY BOUNDARY SURVEY AND AS SUCH DOES NOT COMPLY WITH THE MOST RECENT "STANDARDS OF PRACTICE FOR PROPERTY BOUNDARY SURVEYS" AS ADOPTED BY THE LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD.

FOR PERMITTING ONLY - THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE OR SALES.
GERARD M. LEGENDRE, P.L.S., LA. LAND SURVEYOR REG. NO. 4966

NO.	DATE	REV. BY:

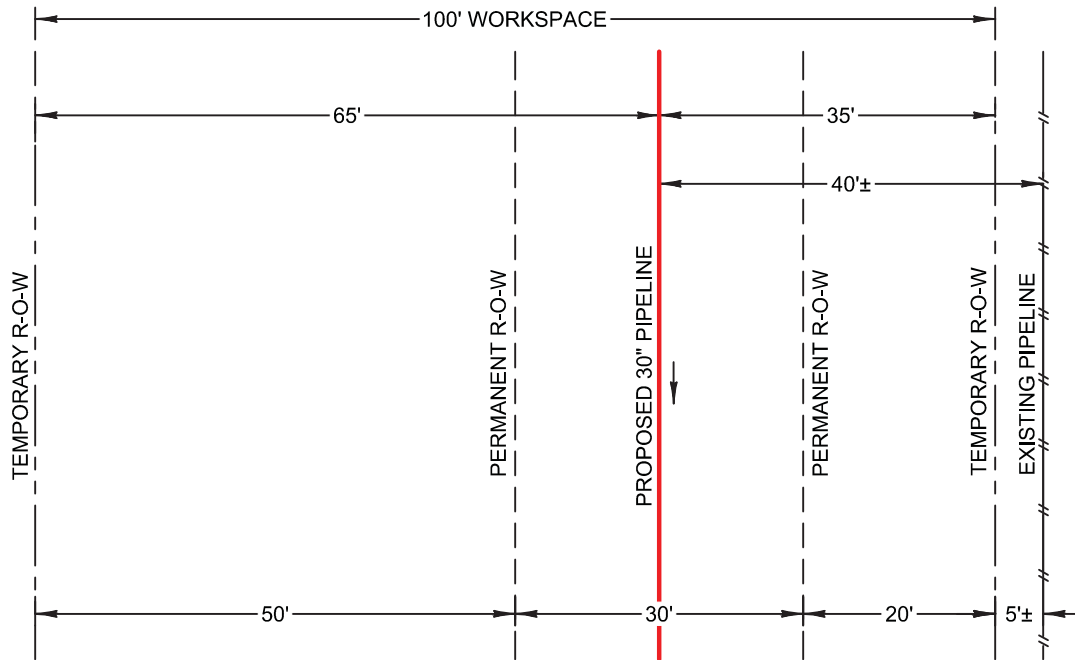
REVISION

ACE
PIPELINE LLC

PLAN VIEW NO. 20
PROPOSED 30" PIPELINE
ST. JAMES TO LOOP
LAFOURCHE PARISH, LOUISIANA
STA 2936+21 TO STA 3074+16

mph
Morris P. Hebert, Inc.
SURVEYING • ENGINEERING • ENVIRONMENTAL • GIS
P.O. BOX 3106 • 283 CORPORATE DRIVE • HOUMA, LOUISIANA 70361 • (985) 879-2731
HOUMA, LA. • HOUSTON, TX. • SAN ANTONIO, TX. • MIDLAND, TX.
TEXAS SURVEY FIRM REGISTRATION NUMBER: 10193786 (HOUMA OFFICE)

DRAWN BY: MPH	SHEET: 21
CHKD./APPD. BY: GML	SCALE: 1" = 2000'
UPDATED BY:	DATE: 02/28/19
DATA BASE: 13111	JOB NO. 13111-00
MPH CAD FILE: 13111COE0021A0.DWG	



PLAN
NOT TO SCALE

DETAIL FOR ACE PLAINS CONNECTION:

STA. 0+00 TO STA. 98+68 (SHEET 1 UPLANDS NORTH OF HWY. 3127)

DETAIL FOR ST. JAMES TO LOOP:

STA. 0+00 TO STA. 162+11 (SHEET 2 UPLANDS NORTH OF HWY. 3127)
 STA. 168+01 TO STA. 258+14 (SHEETS 2 HERBACEOUS SOUTH OF HWY. 3127)
 STA. 597+13 TO STA. 615+05 (SHEET 5 UPLANDS NORTH OF HWY. 20)
 STA. 621+62 TO STA. 631+55 (SHEET 5 UPLANDS SOUTH OF HWY. 20)
 STA. 1133+92 TO STA. 1323+33 (SHEET 9-10 HERBACEOUS BY THERIOT CANAL)
 STA. 1358+32 TO STA. 1382+93 (SHEET 10 HERBACEOUS BY RACELAND STOCKYARD RD.)
 STA. 1429+99 TO STA. 1507+76 (SHEETS 10-11 UPLANDS NORTH OF HWY. 182)
 STA. 1519+05 TO STA. 1572+23 (SHEET 11 UPLANDS SOUTH OF HWY. 182)

DETAIL FOR ST. JAMES TO LOOP:

STA. 1655+13 TO STA. 1817+45 (SHEET 12-13 UPLANDS SOUTH OF AMERADA HESS RD.)
 STA. 1886+46 TO STA. 1928+56 (SHEET 13 UPLANDS NORTH OF COMPANY CANAL)
 STA. 1928+56 TO STA. 2281+83 (SHEETS 14-16 HERBACEOUS SOUTH OF GHEENS, LA.)
 STA. 2281+83 TO STA. 2312+91 (SHEET 16 UPLANDS BY CANAL TISAMOND FORET)
 STA. 2333+28 TO STA. 2386+52 (SHEET 16 HERBACEOUS WEST OF I.C.W.W.)
 STA. 2397+70 TO STA. 2462+46 (SHEETS 16-17 HERBACEOUS EAST OF I.C.W.W.)
 STA. 2462+46 TO STA. 2501+28 (SHEET 17 OTHER WATERS NORTH OF CUT OFF, LA.)
 STA. 2501+28 TO STA. 3074+16 (SHEETS 17-21 HERBACEOUS EAST OF CUT OFF, LA.)

204,221 FT. OR 38.68 MILES TOTAL LENGTH OF PIPELINE IN 100' WORKSPACE

468.83 TOTAL ACRES TO BE EFFECTED IN 100' WORKSPACE AREA

NOTES:

THIS DRAWING WAS PREPARED FOR PERMIT PURPOSES ONLY, AND IS NOT A PROPERTY BOUNDARY SURVEY AND AS SUCH DOES NOT COMPLY WITH THE MOST RECENT "STANDARDS OF PRACTICE FOR PROPERTY BOUNDARY SURVEYS" AS ADOPTED BY THE LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD.

AN ON-THE-GROUND EFFORT WAS MADE TO LOCATE AND INDICATE ALL BELOW GROUND FERROUS METAL CABLES, PIPELINES AND UTILITIES IN THE AREAS DESCRIBED ABOVE; HOWEVER, DUE TO THE INHERENT LIMITATIONS OF ELECTRONIC MAGNETIC LOCATING EQUIPMENT, MORRIS P. HEBERT, INC. IS NOT RESPONSIBLE FOR ANY CABLES, PIPELINES, UTILITIES OR ANY OTHER BELOW GROUND STRUCTURES (INCLUDING PVC) NOT LOCATED DURING THE COURSE OF THE SURVEY. MPH'S EFFORTS DO NOT RELIEVE THE LA ONE CALL RESPONSIBILITY PRIOR TO MOBILIZATION OF EQUIPMENT AND OR EXCAVATION.

FOR PERMITTING ONLY - THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE OR SALES.
 GERARD M. LEGENDRE, P.L.S., LA. LAND SURVEYOR REG. NO. 4966

NO.	DATE	REV. BY:	REVISION
-----	------	----------	----------

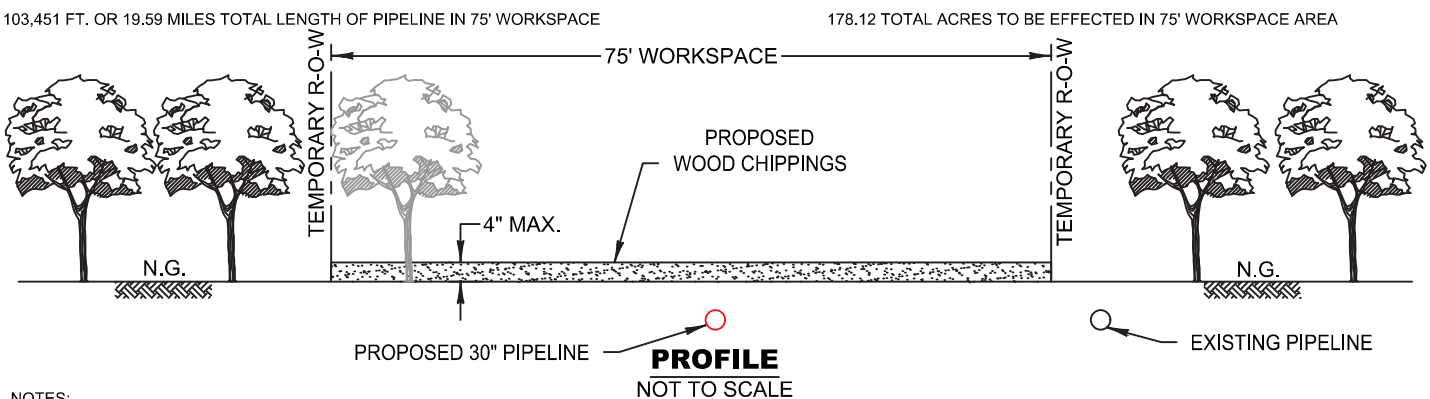
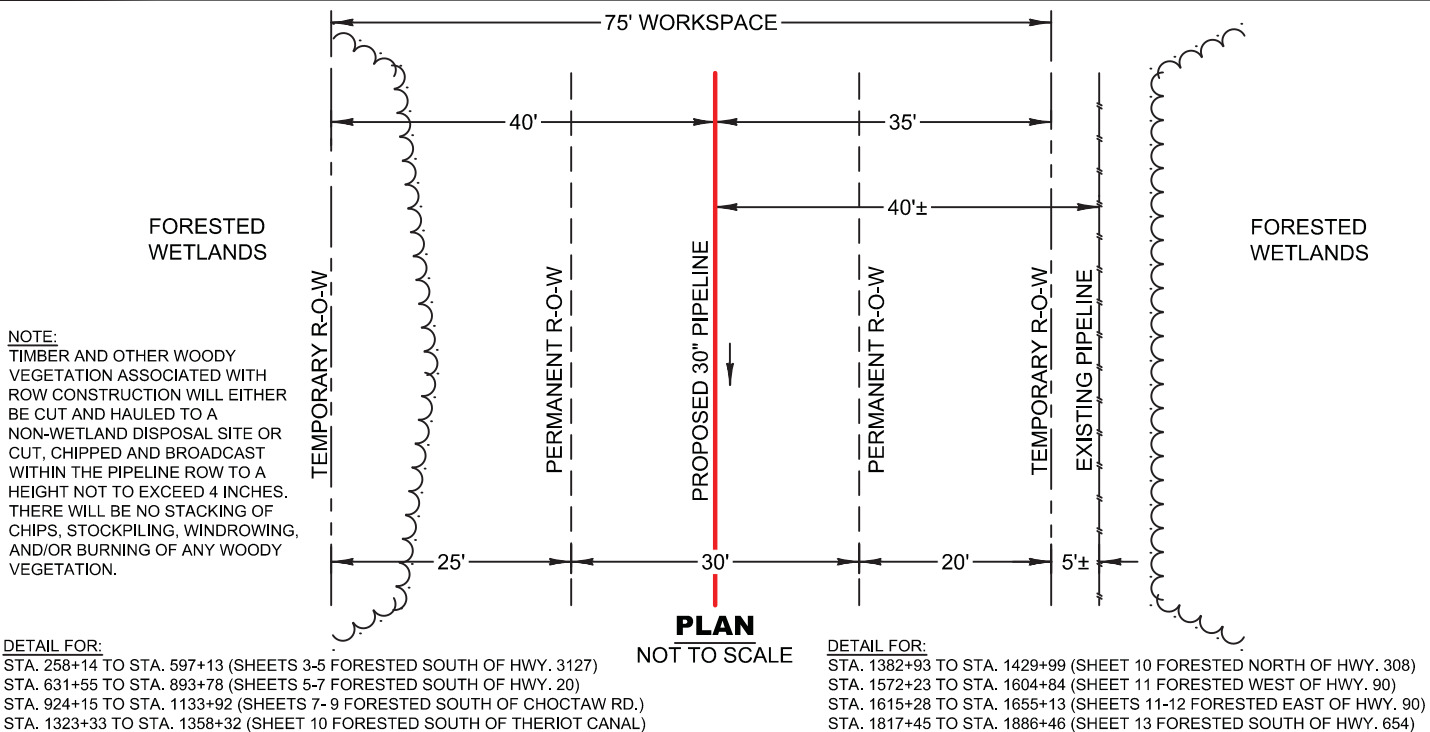


**TYPICAL 100' WORKSPACE DETAIL
IN MARSH & UPLANDS
PROPOSED 30" PIPELINE
ST. JAMES TO LOOP**



DRAWN BY:	MPH	SHEET:	22
CHKD./APPD. BY:	GML	SCALE:	NONE
UPDATED BY:		DATE:	02/28/19
DATA BASE:	13111	JOB NO.	13111-00
MPH CAD FILE: 13111COE0022A0.DWG			

P:\01-Survey_Projects\Phillips 66\13111 ACE\DWG\Permits\COE\13111COE0023A0.dwg PLOT DATE: 2/27/19 3:12:33pm



NOTES:
THIS DRAWING WAS PREPARED FOR PERMIT PURPOSES ONLY, AND IS NOT A PROPERTY BOUNDARY SURVEY AND AS SUCH DOES NOT COMPLY WITH THE MOST RECENT "STANDARDS OF PRACTICE FOR PROPERTY BOUNDARY SURVEYS" AS ADOPTED BY THE LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD.

AN ON-THE-GROUND EFFORT WAS MADE TO LOCATE AND INDICATE ALL BELOW GROUND FERROUS METAL CABLES, PIPELINES AND UTILITIES IN THE AREAS DESCRIBED ABOVE; HOWEVER, DUE TO THE INHERENT LIMITATIONS OF ELECTRONIC MAGNETIC LOCATING EQUIPMENT, MORRIS P. HEBERT, INC. IS NOT RESPONSIBLE FOR ANY CABLES, PIPELINES, UTILITIES OR ANY OTHER BELOW GROUND STRUCTURES (INCLUDING PVC) NOT LOCATED DURING THE COURSE OF THE SURVEY. MPH'S EFFORTS DO NOT RELIEVE THE LA ONE CALL RESPONSIBILITY PRIOR TO MOBILIZATION OF EQUIPMENT AND OR EXCAVATION.

FOR PERMITTING ONLY - THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE OR SALES.
GERARD M. LEGENDRE, P.L.S., LA. LAND SURVEYOR REG. NO. 4966

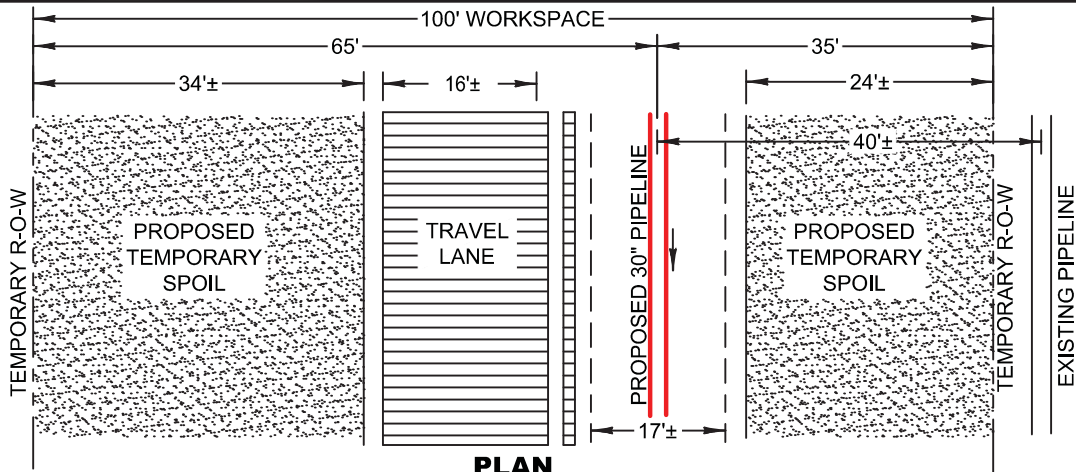
NO.	DATE	REV. BY:	REVISION
-----	------	----------	----------



TYPICAL 75' WORKSPACE DETAIL
IN FORESTED WETLANDS
PROPOSED 30" PIPELINE
ST. JAMES TO LOOP



DRAWN BY:	MPH	SHEET:	23
CHKD./APPD. BY:	GML	SCALE:	NONE
UPDATED BY:		DATE:	02/28/19
DATA BASE:	13111	JOB NO.	13111-00
MPH CAD FILE: 13111COE0023A0.DWG			



PLAN
NOT TO SCALE

DETAIL FOR ACE PLAINS CONNECTION:

STA. 0+00 TO STA. 98+68 (SHEET 1 UPLANDS NORTH OF HWY. 3127)

DETAIL FOR ST. JAMES TO LOOP:

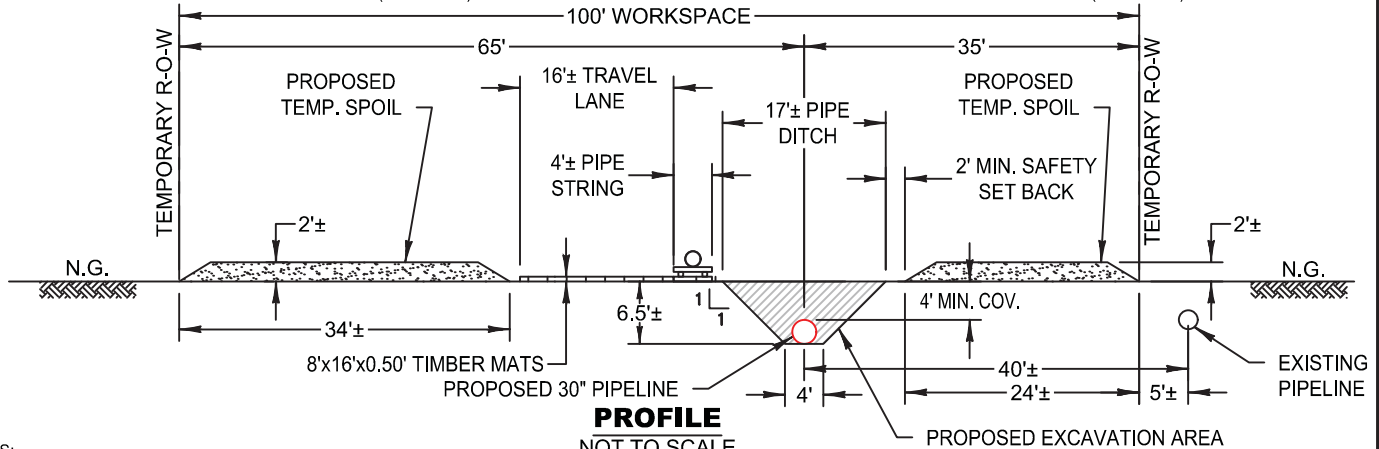
STA. 0+00 TO STA. 162+11 (SHEET 2 UPLANDS NORTH OF HWY. 3127)
 STA. 597+13 TO STA. 615+05 (SHEET 5 UPLANDS NORTH OF HWY. 20)
 STA. 621+62 TO STA. 631+55 (SHEET 5 UPLANDS SOUTH OF HWY. 20)
 STA. 1429+99 TO STA. 1507+76 (SHEETS 10-11 UPLANDS NORTH OF HWY. 182)

DETAIL FOR ST. JAMES TO LOOP:

STA. 1519+05 TO STA. 1572+23 (SHEET 11 UPLANDS SOUTH OF HWY. 182)
 STA. 1655+13 TO STA. 1817+45 (SHEET 12-13 UPLANDS SOUTH OF AMERADA HESS RD.)
 STA. 1886+46 TO STA. 1928+56 (SHEET 13 UPLANDS NORTH OF COMPANY CANAL)
 STA. 2281+83 TO STA. 2312+91 (SHEET 16 UPLANDS BY CANAL TISAMOND FORET)

1,512 CU. YDS. IN OTHER WATERS
 164,081 CU. YDS. IN UPLANDS
 165,593 TOTAL CU. YDS. OF EXCAVATION IN LAND LAY (OPEN CUT)

0.24 ACRES IN OTHER WATERS
 25.33 ACRES IN UPLANDS
 25.57 TOTAL ACRES OF EXCAVATION IN LAND LAY (OPEN CUT)



PROFILE
NOT TO SCALE

NOTES:

THIS DRAWING WAS PREPARED FOR PERMIT PURPOSES ONLY, AND IS NOT A PROPERTY BOUNDARY SURVEY AND AS SUCH DOES NOT COMPLY WITH THE MOST RECENT "STANDARDS OF PRACTICE FOR PROPERTY BOUNDARY SURVEYS" AS ADOPTED BY THE LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD.

AN ON-THE-GROUND EFFORT WAS MADE TO LOCATE AND INDICATE ALL BELOW GROUND FERROUS METAL CABLES, PIPELINES AND UTILITIES IN THE AREAS DESCRIBED ABOVE; HOWEVER, DUE TO THE INHERENT LIMITATIONS OF ELECTRONIC MAGNETIC LOCATING EQUIPMENT, MORRIS P. HEBERT, INC. IS NOT RESPONSIBLE FOR ANY CABLES, PIPELINES, UTILITIES OR ANY OTHER BELOW GROUND STRUCTURES (INCLUDING PVC) NOT LOCATED DURING THE COURSE OF THE SURVEY. MPH'S EFFORTS DO NOT RELIEVE THE LA ONE CALL RESPONSIBILITY PRIOR TO MOBILIZATION OF EQUIPMENT AND OR EXCAVATION.

FOR PERMITTING ONLY - THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE OR SALES.
 GERARD M. LEGENDRE, P.L.S., LA. LAND SURVEYOR REG. NO. 4966

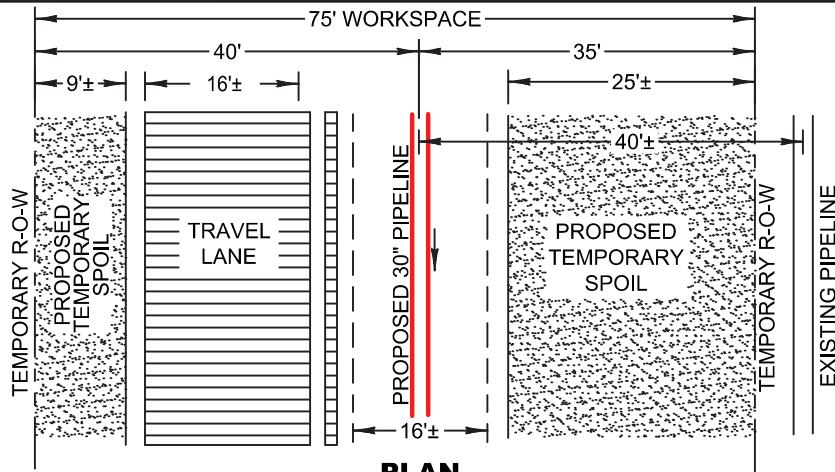
NO.	DATE	REV. BY:	REVISION
-----	------	----------	----------



TYPICAL LAND LAY (OPEN CUT) DETAIL
 IN UPLANDS
 PROPOSED 30" PIPELINE
 ST. JAMES TO LOOP



DRAWN BY:	MPH	SHEET:	24
CHKD./APPD. BY:	GML	SCALE:	NONE
UPDATED BY:		DATE:	04/10/19
DATA BASE:	13111	JOB NO.	13111-00
MPH CAD FILE: 13111COE0024A0.DWG			



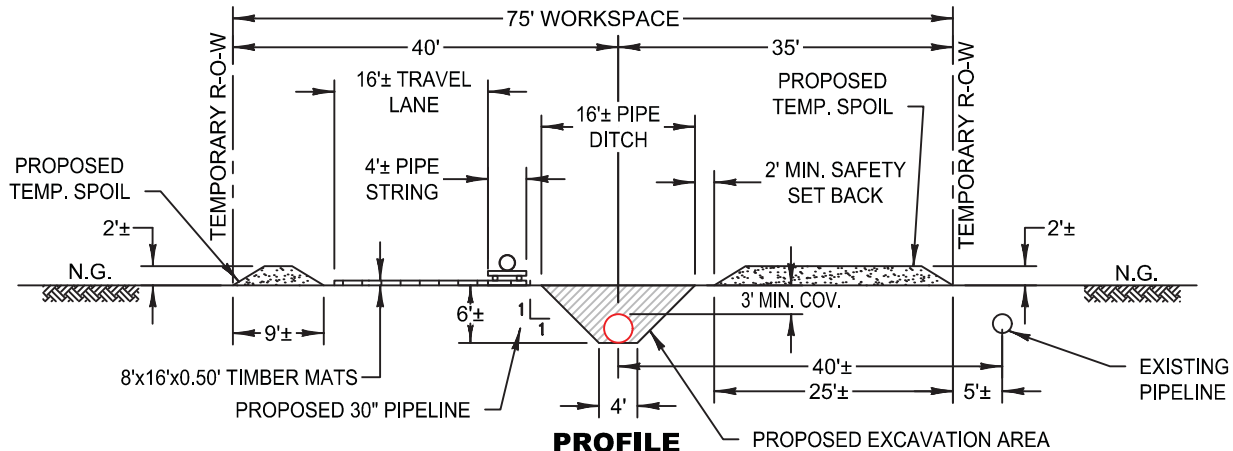
PLAN
NOT TO SCALE

DETAIL FOR:
STA. 631+55 TO STA. 645+13 (SHEET 5 FORESTED SOUTH OF HWY. 20)
STA. 1382+93 TO STA. 1429+99 (SHEET 10 FORESTED NORTH OF HWY. 308)

0 CU. YDS. IN OTHER WATERS
20,723 CU. YDS. IN FORESTED WETLANDS
20,723 TOTAL CU. YDS. OF EXCAVATION IN LAND LAY (OPEN CUT)

DETAIL FOR:
STA. 1572+23 TO STA. 1604+84 (SHEET 11 FORESTED WEST OF HWY. 90)

0 ACRES IN OTHER WATERS
2.21 ACRES IN FORESTED WETLANDS
2.21 TOTAL ACRES OF EXCAVATION IN LAND LAY (OPEN CUT)



PROFILE
NOT TO SCALE

NOTES:
THIS DRAWING WAS PREPARED FOR PERMIT PURPOSES ONLY, AND IS NOT A PROPERTY BOUNDARY SURVEY AND AS SUCH DOES NOT COMPLY WITH THE MOST RECENT "STANDARDS OF PRACTICE FOR PROPERTY BOUNDARY SURVEYS" AS ADOPTED BY THE LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD.

AN ON-THE-GROUND EFFORT WAS MADE TO LOCATE AND INDICATE ALL BELOW GROUND FERROUS METAL CABLES, PIPELINES AND UTILITIES IN THE AREAS DESCRIBED ABOVE; HOWEVER, DUE TO THE INHERENT LIMITATIONS OF ELECTRONIC MAGNETIC LOCATING EQUIPMENT, MORRIS P. HEBERT, INC. IS NOT RESPONSIBLE FOR ANY CABLES, PIPELINES, UTILITIES OR ANY OTHER BELOW GROUND STRUCTURES (INCLUDING PVC) NOT LOCATED DURING THE COURSE OF THE SURVEY. MPH'S EFFORTS DO NOT RELIEVE THE LA ONE CALL RESPONSIBILITY PRIOR TO MOBILIZATION OF EQUIPMENT AND OR EXCAVATION.

FOR PERMITTING ONLY - THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE OR SALES.
GERARD M. LEGENDRE, P.L.S., LA. LAND SURVEYOR REG. NO. 4966

NO.	DATE	REV. BY:	REVISION
-----	------	----------	----------

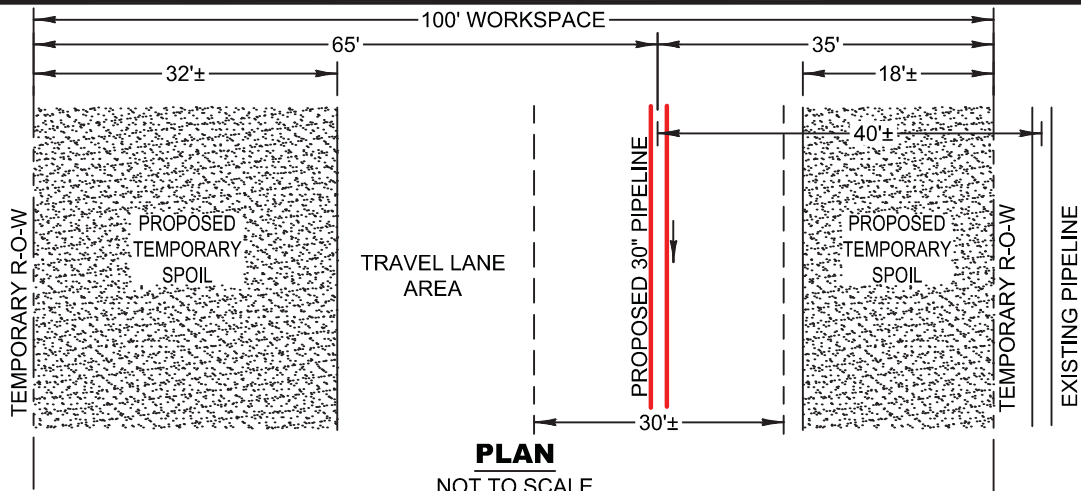


TYPICAL LAND LAY (OPEN CUT) DETAIL
IN FORESTED WETLANDS
PROPOSED 30" PIPELINE
ST. JAMES TO LOOP



DRAWN BY:	MPH	SHEET:	25
CHKD./APPD. BY:	GML	SCALE:	NONE
UPDATED BY:		DATE:	04/10/19
DATA BASE:	13111	JOB NO.	13111-00
MPH CAD FILE: 13111COE0025A0.DWG			

P:\01-Survey_Projects\Phillips 66\13111 ACE\DWG\Permits\COE\13111COE0026A0.dwg PLOT DATE: 4/10/19 8:23:13am



PLAN
NOT TO SCALE

DETAIL FOR:

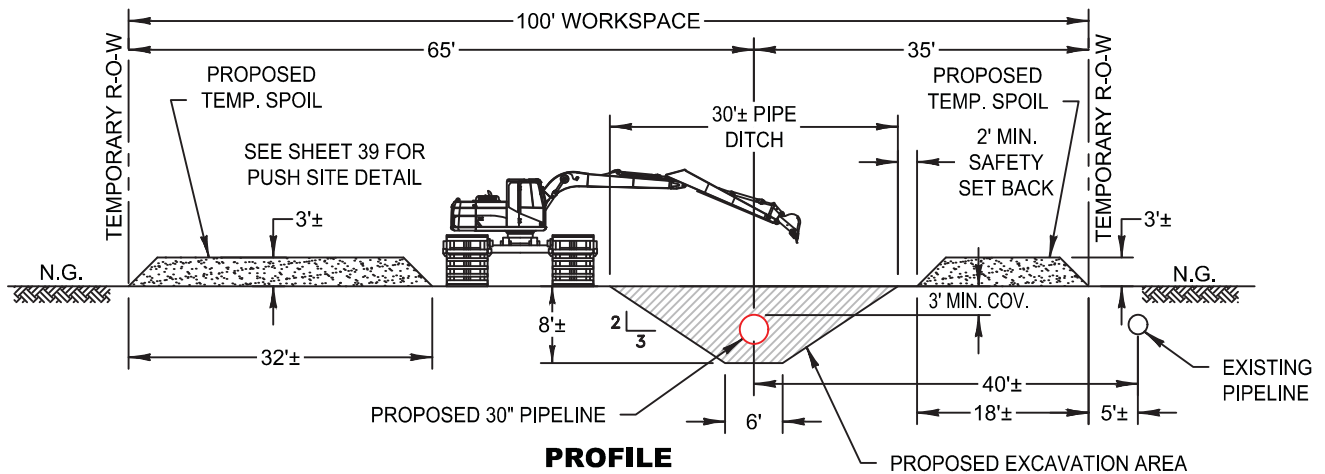
STA. 168+01 TO STA. 258+14 (SHEETS 2 HERBACEOUS SOUTH OF HWY. 3127)
STA. 1133+92 TO STA. 1323+33 (SHEET 9-10 HERBACEOUS BY THERIOT CANAL)
STA. 1358+32 TO STA. 1382+93 (SHEET 10 HERBACEOUS BY RACELAND STOCKYARD RD.)
STA. 1928+56 TO STA. 2281+83 (SHEETS 14-16 HERBACEOUS SOUTH OF GHEENS, LA.)

90,326 CU. YDS. IN OTHER WATERS
647,430 CU. YDS. IN HERBACEOUS WETLANDS
737,756 TOTAL CU. YDS. OF EXCAVATION IN PUSH AREAS

DETAIL FOR:

STA. 2333+28 TO STA. 2386+52 (SHEET 16 HERBACEOUS WEST OF I.C.W.W.)
STA. 2397+70 TO STA. 2462+46 (SHEETS 16-17 HERBACEOUS EAST OF I.C.W.W.)
STA. 2462+46 TO STA. 2501+28 (SHEET 17 OTHER WATERS NORTH OF CUT OFF, LA.)
STA. 2501+28 TO STA. 3067+61 (SHEETS 17-21 HERBACEOUS EAST OF CUT OFF, LA.)

11.67 ACRES IN OTHER WATERS
83.60 ACRES IN HERBACEOUS WETLANDS
95.27 TOTAL ACRES OF EXCAVATION IN PUSH AREAS



PROFILE
NOT TO SCALE

NOTES:

THIS DRAWING WAS PREPARED FOR PERMIT PURPOSES ONLY, AND IS NOT A PROPERTY BOUNDARY SURVEY AND AS SUCH DOES NOT COMPLY WITH THE MOST RECENT "STANDARDS OF PRACTICE FOR PROPERTY BOUNDARY SURVEYS" AS ADOPTED BY THE LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD.

AN ON-THE-GROUND EFFORT WAS MADE TO LOCATE AND INDICATE ALL BELOW GROUND FERROUS METAL CABLES, PIPELINES AND UTILITIES IN THE AREAS DESCRIBED ABOVE; HOWEVER, DUE TO THE INHERENT LIMITATIONS OF ELECTRONIC MAGNETIC LOCATING EQUIPMENT, MORRIS P. HEBERT, INC. IS NOT RESPONSIBLE FOR ANY CABLES, PIPELINES, UTILITIES OR ANY OTHER BELOW GROUND STRUCTURES (INCLUDING PVC) NOT LOCATED DURING THE COURSE OF THE SURVEY. MPH'S EFFORTS DO NOT RELIEVE THE LA ONE CALL RESPONSIBILITY PRIOR TO MOBILIZATION OF EQUIPMENT AND OR EXCAVATION.

FOR PERMITTING ONLY - THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE OR SALES.
GERARD M. LEGENDRE, P.L.S., LA. LAND SURVEYOR REG. NO. 4966

NO.	DATE	REV. BY:

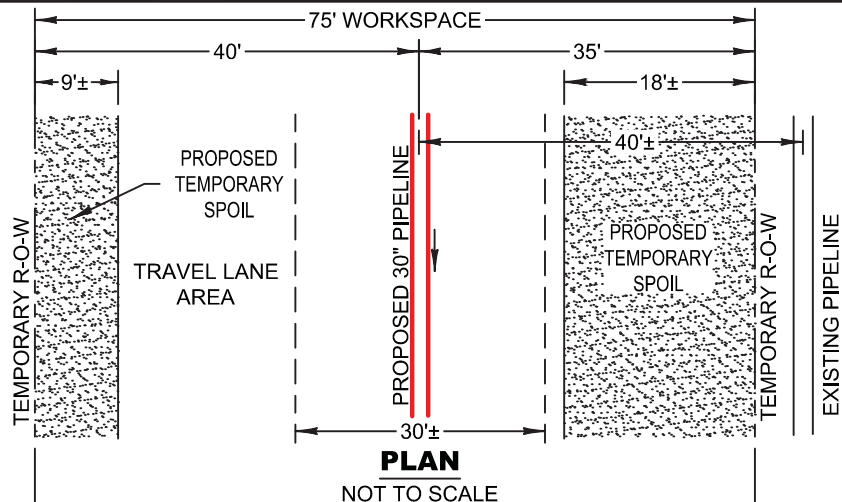
REVISION



TYPICAL PUSH DITCH DETAIL
IN MARSH
PROPOSED 30" PIPELINE
ST. JAMES TO LOOP



DRAWN BY: MPH	SHEET: 26
CHKD./APPD. BY: GML	SCALE: NONE
UPDATED BY:	DATE: 04/10/19
DATA BASE: 13111	JOB NO. 13111-00
MPH CAD FILE: 13111COE0026A0.DWG	



DETAIL FOR:

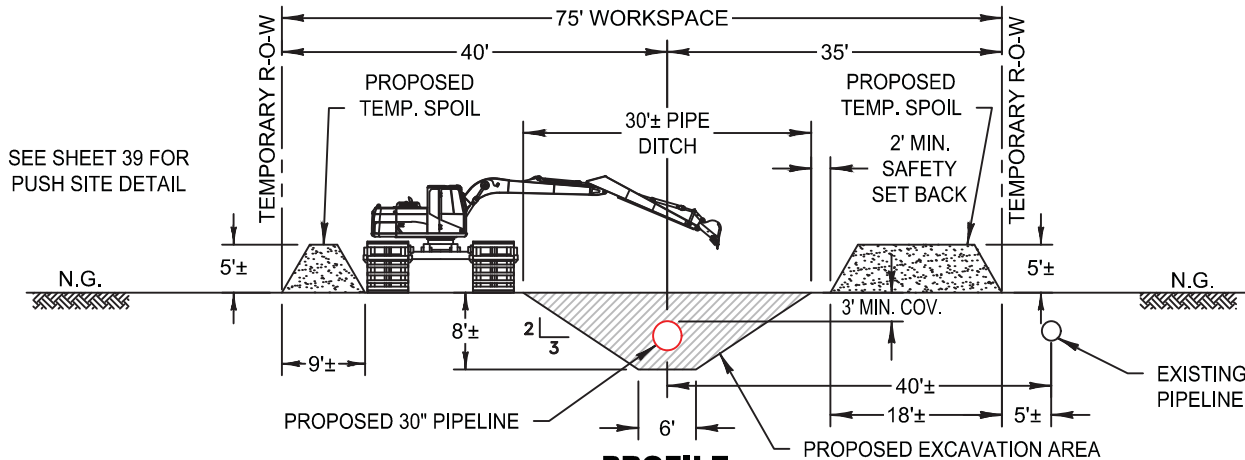
STA. 258+14 TO STA. 597+13 (SHEETS 3-5 FORESTED SOUTH OF HWY. 3127)
 STA. 645+13 TO STA. 893+78 (SHEETS 5-7 FORESTED SOUTH OF HWY. 20)
 STA. 924+15 TO STA. 1133+92 (SHEETS 7-9 FORESTED SOUTH OF CHOCTAW RD.)

12,699 CU. YDS. IN OTHER WATERS
 489,307 CU. YDS. IN FORESTED WETLANDS
 502,006 TOTAL CU. YDS. OF EXCAVATION IN PUSH AREAS

DETAIL FOR:

STA. 1323+33 TO STA. 1358+32 (SHEET 10 FORESTED SOUTH OF THERIOT CANAL)
 STA. 1615+28 TO STA. 1655+13 (SHEETS 11-12 FORESTED EAST OF HWY. 90)
 STA. 1817+45 TO STA. 1886+46 (SHEET 13 FORESTED SOUTH OF HWY. 654)

1.64 ACRES IN OTHER WATERS
 63.19 ACRES IN FORESTED WETLANDS
 64.83 TOTAL ACRES OF EXCAVATION IN PUSH AREAS



NOTES:

THIS DRAWING WAS PREPARED FOR PERMIT PURPOSES ONLY, AND IS NOT A PROPERTY BOUNDARY SURVEY AND AS SUCH DOES NOT COMPLY WITH THE MOST RECENT "STANDARDS OF PRACTICE FOR PROPERTY BOUNDARY SURVEYS" AS ADOPTED BY THE LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD.

AN ON-THE-GROUND EFFORT WAS MADE TO LOCATE AND INDICATE ALL BELOW GROUND FERROUS METAL CABLES, PIPELINES AND UTILITIES IN THE AREAS DESCRIBED ABOVE; HOWEVER, DUE TO THE INHERENT LIMITATIONS OF ELECTRONIC MAGNETIC LOCATING EQUIPMENT, MORRIS P. HEBERT, INC. IS NOT RESPONSIBLE FOR ANY CABLES, PIPELINES, UTILITIES OR ANY OTHER BELOW GROUND STRUCTURES (INCLUDING PVC) NOT LOCATED DURING THE COURSE OF THE SURVEY. MPH'S EFFORTS DO NOT RELIEVE THE LA ONE CALL RESPONSIBILITY PRIOR TO MOBILIZATION OF EQUIPMENT AND OR EXCAVATION.

FOR PERMITTING ONLY - THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE OR SALES.
 GERARD M. LEGENDRE, P.L.S., LA. LAND SURVEYOR REG. NO. 4966

NO.	DATE	REV. BY:

REVISION

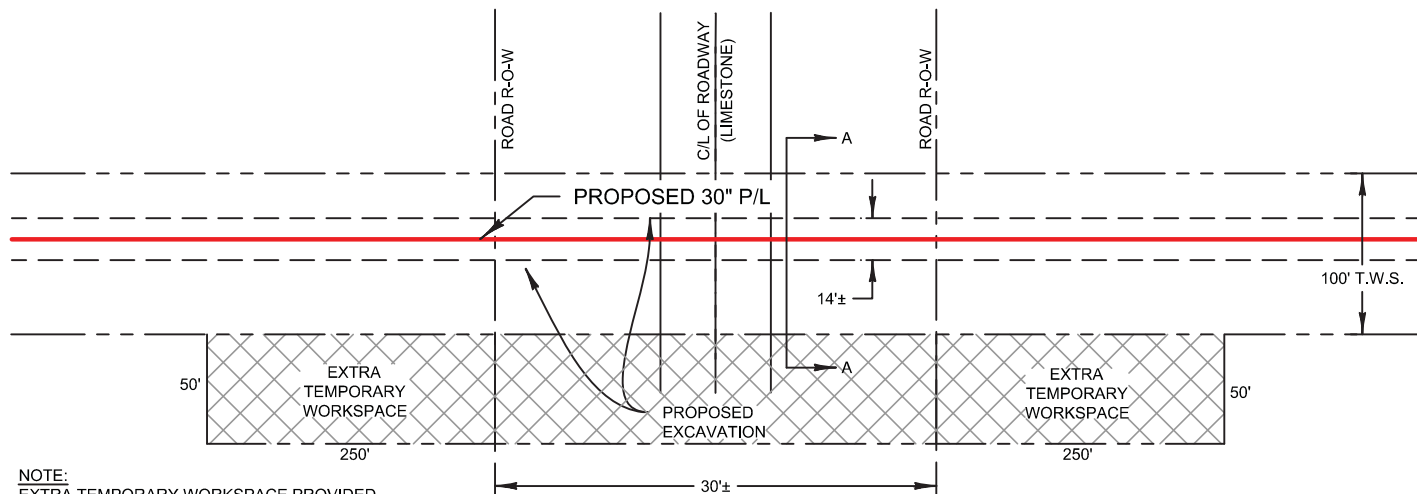


TYPICAL PUSH DITCH DETAIL
 IN FORESTED WETLANDS
 PROPOSED 30" PIPELINE
 ST. JAMES TO LOOP



DRAWN BY: MPH	SHEET: 27
CHKD./APPD. BY: GML	SCALE: NONE
UPDATED BY:	DATE: 04/10/19
DATA BASE: 13111	JOB NO. 13111-00
MPH CAD FILE: 13111COE0027A0.DWG	

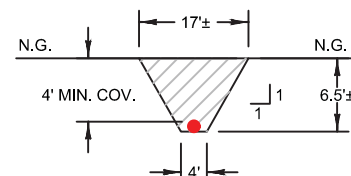
P:\01-Survey_Projects\Phillips 66\13111 ACE\DWG\Permits\COE\13111COE0028A0.dwg PLOT DATE: 4/10/19 11:53:37am



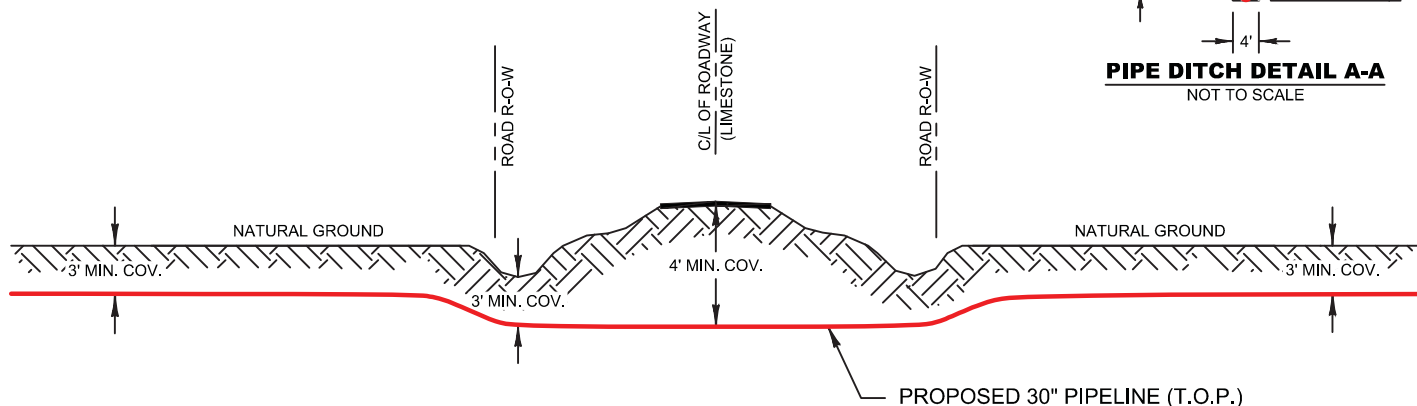
NOTE:
EXTRA TEMPORARY WORKSPACE PROVIDED
FOR PROPOSED TEMPORARY SPOIL 2'± IN
HEIGHT FROM PROPOSED EXCAVATION.

PLAN
NOT TO SCALE

DETAIL FOR:
STA. 1358+32 RACELAND STOCKYARD RD. (LIMESTONE)(SHEET 10 NORTH OF HWY. 308)
STA. 1655+13 AMERADA HESS RD. (LIMESTONE)(SHEET 12 EAST OF HWY. 90)



PIPE DITCH DETAIL A-A
NOT TO SCALE



PROFILE
NOT TO SCALE

NOTES:
THIS DRAWING WAS PREPARED FOR PERMIT PURPOSES ONLY, AND IS NOT A PROPERTY BOUNDARY SURVEY AND AS SUCH DOES NOT COMPLY WITH THE MOST RECENT
"STANDARDS OF PRACTICE FOR PROPERTY BOUNDARY SURVEYS" AS ADOPTED BY THE LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD.

AN ON-THE-GROUND EFFORT WAS MADE TO LOCATE AND INDICATE ALL BELOW GROUND FERROUS METAL CABLES, PIPELINES AND UTILITIES IN THE AREAS DESCRIBED ABOVE;
HOWEVER, DUE TO THE INHERENT LIMITATIONS OF ELECTRONIC MAGNETIC LOCATING EQUIPMENT, MORRIS P. HEBERT, INC. IS NOT RESPONSIBLE FOR ANY CABLES, PIPELINES,
UTILITIES OR ANY OTHER BELOW GROUND STRUCTURES (INCLUDING PVC) NOT LOCATED DURING THE COURSE OF THE SURVEY. MPH'S EFFORTS DO NOT RELIEVE THE LA ONE
CALL RESPONSIBILITY PRIOR TO MOBILIZATION OF EQUIPMENT AND OR EXCAVATION.

FOR PERMITTING ONLY - THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE OR SALES.
GERARD M. LEGENDRE, P.L.S., LA. LAND SURVEYOR REG. NO. 4966

NO.	DATE	REV. BY:	REVISION
-----	------	----------	----------

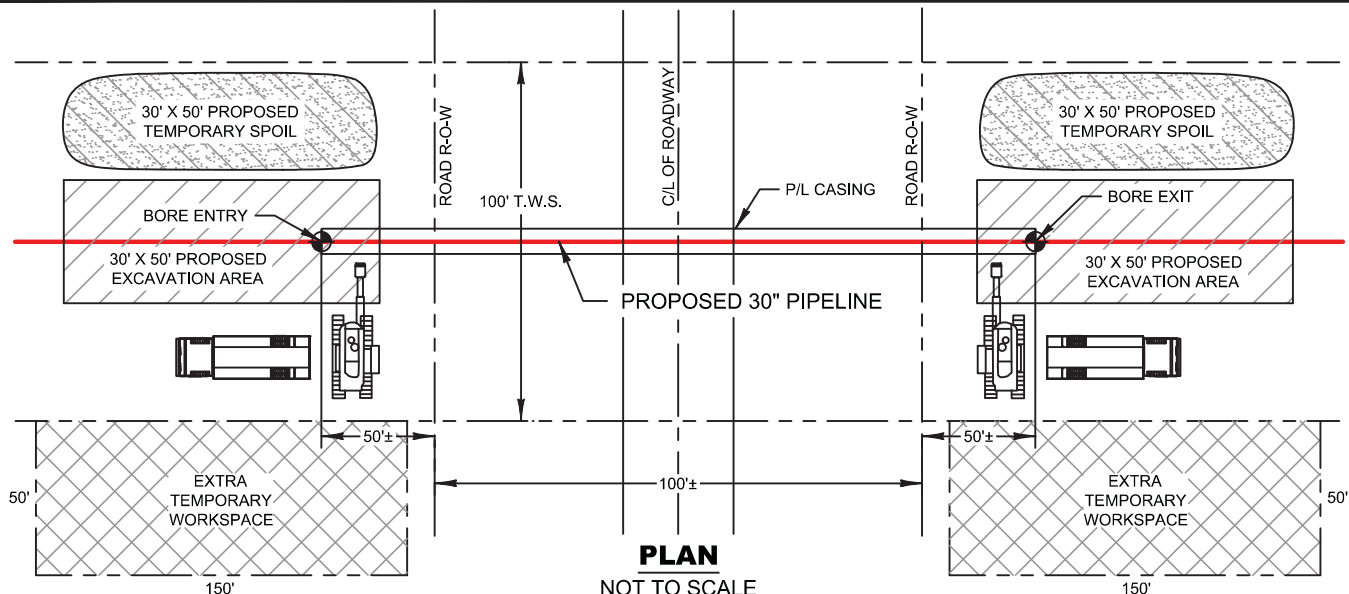


TYPICAL ROADWAY CROSSING DETAIL
PROPOSED 30" PIPELINE
ST. JAMES TO LOOP



DRAWN BY:	MPH	SHEET:	28
CHKD./APPD. BY:	GML	SCALE:	NONE
UPDATED BY:		DATE:	04/10/19
DATA BASE:	13111	JOB NO.	13111-00
MPH CAD FILE: 13111COE0028A0.DWG			

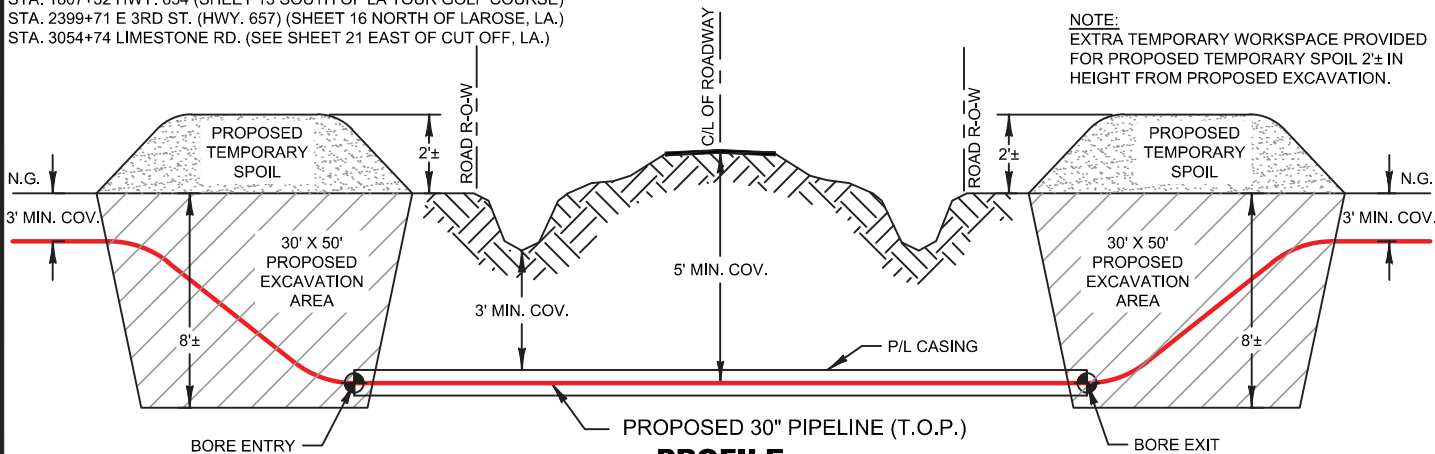
P:\01-Survey_Projects\Phillips 66\13111 ACE\DWG\Permits\COE\13111COE0029A0.dwg PLOT DATE: 4/17/19 11:51:18am



DETAIL FOR ST. JAMES TO LOOP:
STA. 1517+34 HWY. 182 (SHEET 11 NORTH OF RACELAND, LA)
STA. 1771+30 GHEENS SHORT CUT RD. (SHEET 12 EAST OF LA TOUR GOLF COURSE)
STA. 1807+52 HWY. 654 (SHEET 13 SOUTH OF LA TOUR GOLF COURSE)
STA. 2399+71 E 3RD ST. (HWY. 657) (SHEET 16 NORTH OF LAROSE, LA.)
STA. 3054+74 LIMESTONE RD. (SEE SHEET 21 EAST OF CUT OFF, LA.)

DETAIL FOR ACE PLAINS CONNECTION:
STA. 13+87 LIMESTONE RD. (SHEET 55 NORTH OF HWY. 3127)

NOTE:
EXTRA TEMPORARY WORKSPACE PROVIDED
FOR PROPOSED TEMPORARY SPOIL 2'± IN
HEIGHT FROM PROPOSED EXCAVATION.



NOTES:
THIS DRAWING WAS PREPARED FOR PERMIT PURPOSES ONLY, AND IS NOT A PROPERTY BOUNDARY SURVEY AND AS SUCH DOES NOT COMPLY WITH THE MOST RECENT
"STANDARDS OF PRACTICE FOR PROPERTY BOUNDARY SURVEYS" AS ADOPTED BY THE LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD.

AN ON-THE-GROUND EFFORT WAS MADE TO LOCATE AND INDICATE ALL BELOW GROUND FERROUS METAL CABLES, PIPELINES AND UTILITIES IN THE AREAS DESCRIBED ABOVE;
HOWEVER, DUE TO THE INHERENT LIMITATIONS OF ELECTRONIC MAGNETIC LOCATING EQUIPMENT, MORRIS P. HEBERT, INC. IS NOT RESPONSIBLE FOR ANY CABLES, PIPELINES,
UTILITIES OR ANY OTHER BELOW GROUND STRUCTURES (INCLUDING PVC) NOT LOCATED DURING THE COURSE OF THE SURVEY. MPH'S EFFORTS DO NOT RELIEVE THE LA ONE
CALL RESPONSIBILITY PRIOR TO MOBILIZATION OF EQUIPMENT AND OR EXCAVATION.

FOR PERMITTING ONLY - THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE OR SALES.
GERARD M. LEGENDRE, P.L.S., LA. LAND SURVEYOR REG. NO. 4966

NO.	DATE	REV. BY:	REVISION
-----	------	----------	----------

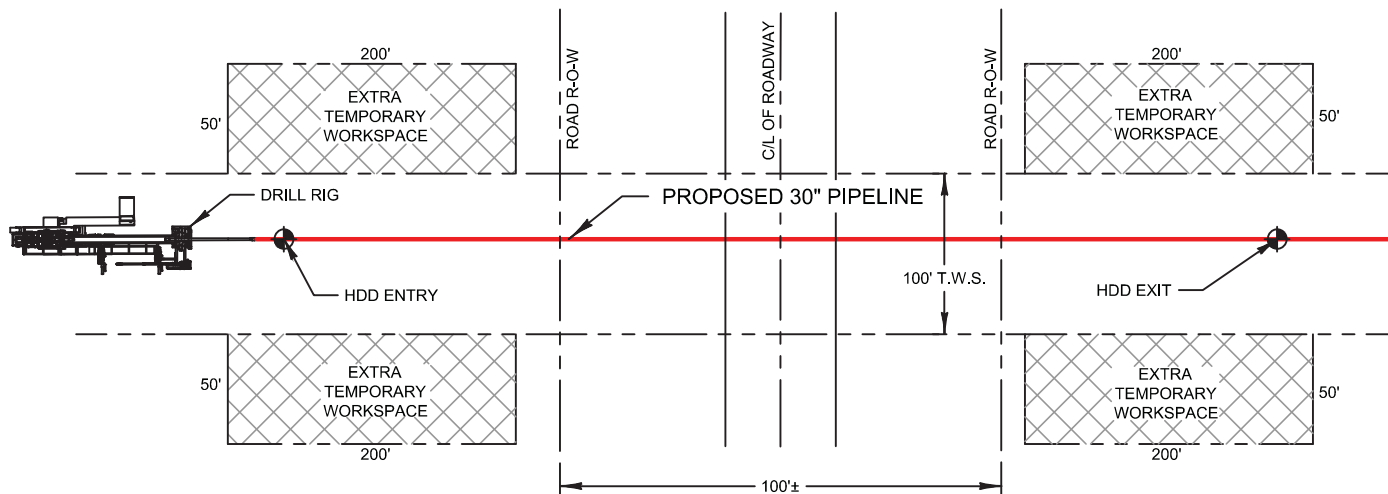


TYPICAL ROADWAY BORE DETAIL
PROPOSED 30" PIPELINE
ST. JAMES TO LOOP



DRAWN BY:	MPH	SHEET:	29
CHKD./APPD. BY:	GML	SCALE:	NONE
UPDATED BY:		DATE:	04/17/19
DATA BASE:	13111	JOB NO.	13111-00
MPH CAD FILE: 13111COE0029A0.DWG			

P:\01-Survey_Projects\Phillips 66\13111 ACE\DWG\Permits\COE\13111COE0030A0.dwg PLOT DATE: 3/25/19 2:05:41pm



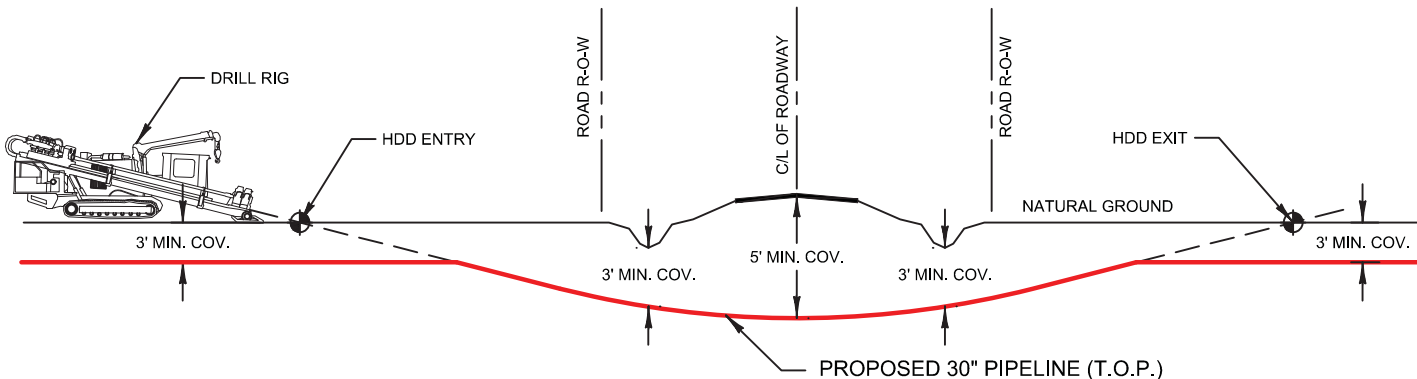
PLAN
NOT TO SCALE

DETAIL FOR:

STA. 164+76 HWY. 3127 (SHEET 2 WEST OF MISS. RIVER)
STA. 620+72 HWY. 20 (SHEET 5 EAST OF CHACKBAY, LA.)
STA. 925+65 CHOCTAW ROAD (SHEET 7 WEST OF CHOCTAW, LA.)
STA. 1610+06 HWY. 90 (SHEET 11 NORTH OF MATHEWS, LA.)

NOTE:

EXTRA TEMPORARY WORKSPACE
PROVIDED FOR DRILL RIG & EQUIPMENT,
NOT FOR PROPOSED TEMPORARY SPOIL.



PROFILE
NOT TO SCALE

NOTES:

THIS DRAWING WAS PREPARED FOR PERMIT PURPOSES ONLY, AND IS NOT A PROPERTY BOUNDARY SURVEY AND AS SUCH DOES NOT COMPLY WITH THE MOST RECENT "STANDARDS OF PRACTICE FOR PROPERTY BOUNDARY SURVEYS" AS ADOPTED BY THE LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD.

AN ON-THE-GROUND EFFORT WAS MADE TO LOCATE AND INDICATE ALL BELOW GROUND FERROUS METAL CABLES, PIPELINES AND UTILITIES IN THE AREAS DESCRIBED ABOVE; HOWEVER, DUE TO THE INHERENT LIMITATIONS OF ELECTRONIC MAGNETIC LOCATING EQUIPMENT, MORRIS P. HEBERT, INC. IS NOT RESPONSIBLE FOR ANY CABLES, PIPELINES, UTILITIES OR ANY OTHER BELOW GROUND STRUCTURES (INCLUDING PVC) NOT LOCATED DURING THE COURSE OF THE SURVEY. MPH'S EFFORTS DO NOT RELIEVE THE LA ONE CALL RESPONSIBILITY PRIOR TO MOBILIZATION OF EQUIPMENT AND OR EXCAVATION.

FOR PERMITTING ONLY - THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE OR SALES.
GERARD M. LEGENDRE, P.L.S., LA. LAND SURVEYOR REG. NO. 4966

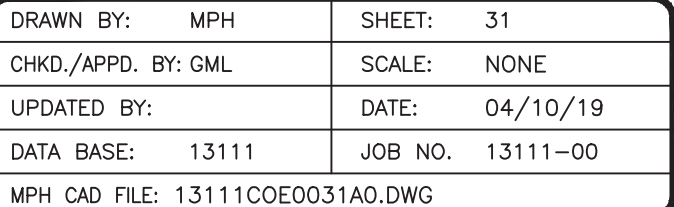
NO.	DATE	REV. BY:	REVISION
-----	------	----------	----------



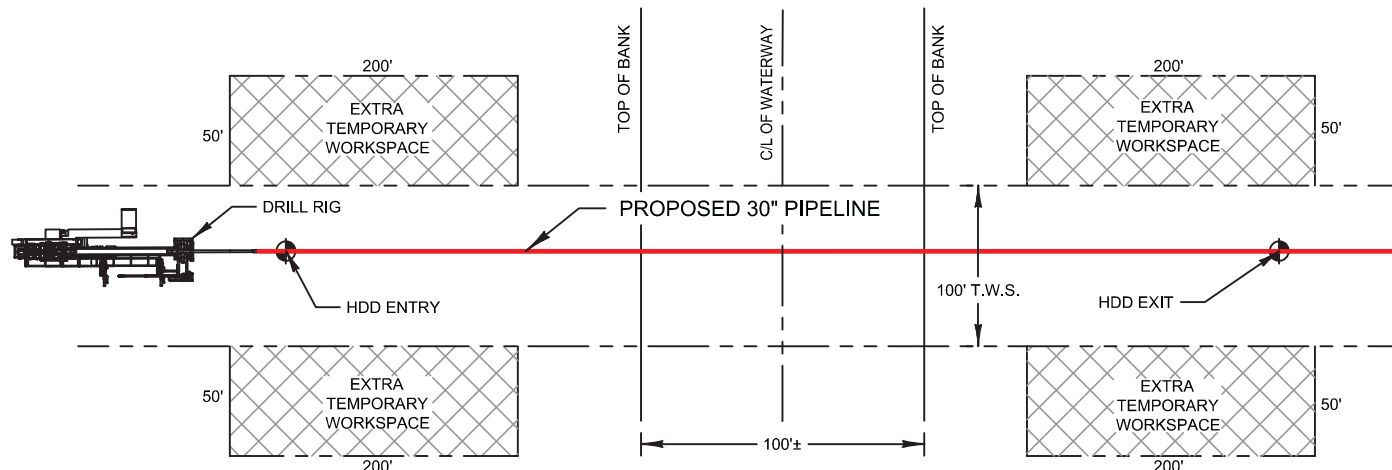
TYPICAL ROADWAY HORIZONTAL
DIRECTIONAL DRILL DETAIL
PROPOSED 30" PIPELINE
ST. JAMES TO LOOP



DRAWN BY: MPH	SHEET: 30
CHKD./APPD. BY: GML	SCALE: NONE
UPDATED BY:	DATE: 03/25/19
DATA BASE: 13111	JOB NO. 13111-00
MPH CAD FILE: 13111COE0030A0.DWG	



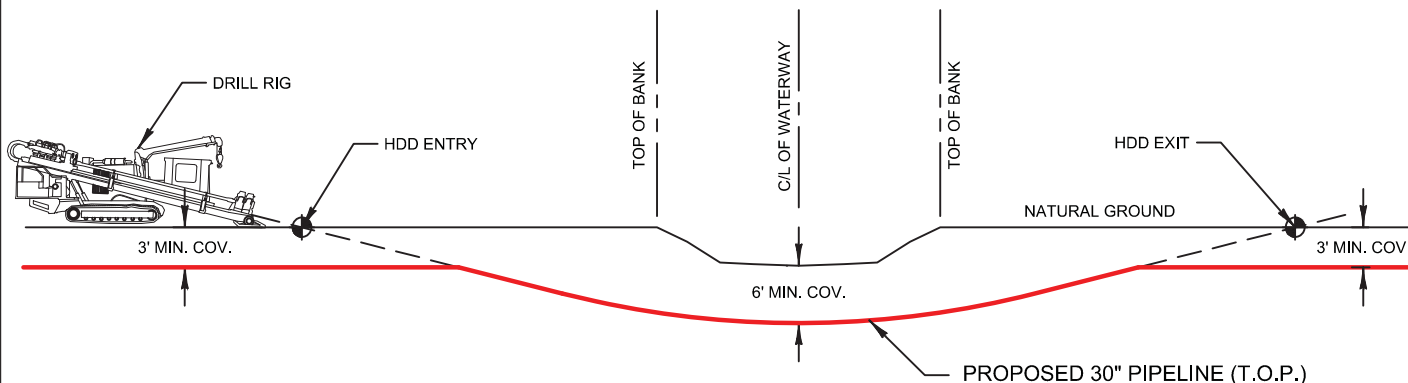
P:\01-Survey_Projects\Phillips 66\13111 ACE\DWG\Permits\COE\13111COE0032A0.dwg PLOT DATE: 4/10/19 3:03:44pm



PLAN
NOT TO SCALE

DETAIL FOR:
STA. 911+58 BAYOU BATON PILON (SHEET 7 NORTH OF CHOCTAW RD)

NOTE:
EXTRA TEMPORARY WORKSPACE
PROVIDED FOR DRILL RIG & EQUIPMENT,
NOT FOR PROPOSED TEMPORARY SPOIL.



PROFILE
NOT TO SCALE

NOTES:

THIS DRAWING WAS PREPARED FOR PERMIT PURPOSES ONLY, AND IS NOT A PROPERTY BOUNDARY SURVEY AND AS SUCH DOES NOT COMPLY WITH THE MOST RECENT "STANDARDS OF PRACTICE FOR PROPERTY BOUNDARY SURVEYS" AS ADOPTED BY THE LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD.

AN ON-THE-GROUND EFFORT WAS MADE TO LOCATE AND INDICATE ALL BELOW GROUND FERROUS METAL CABLES, PIPELINES AND UTILITIES IN THE AREAS DESCRIBED ABOVE; HOWEVER, DUE TO THE INHERENT LIMITATIONS OF ELECTRONIC MAGNETIC LOCATING EQUIPMENT, MORRIS P. HEBERT, INC. IS NOT RESPONSIBLE FOR ANY CABLES, PIPELINES, UTILITIES OR ANY OTHER BELOW GROUND STRUCTURES (INCLUDING PVC) NOT LOCATED DURING THE COURSE OF THE SURVEY. MPH'S EFFORTS DO NOT RELIEVE THE LA ONE CALL RESPONSIBILITY PRIOR TO MOBILIZATION OF EQUIPMENT AND OR EXCAVATION.

FOR PERMITTING ONLY - THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE OR SALES.
GERARD M. LEGENDRE, P.L.S., LA. LAND SURVEYOR REG. NO. 4966

NO.	DATE	REV. BY:	REVISION
-----	------	----------	----------

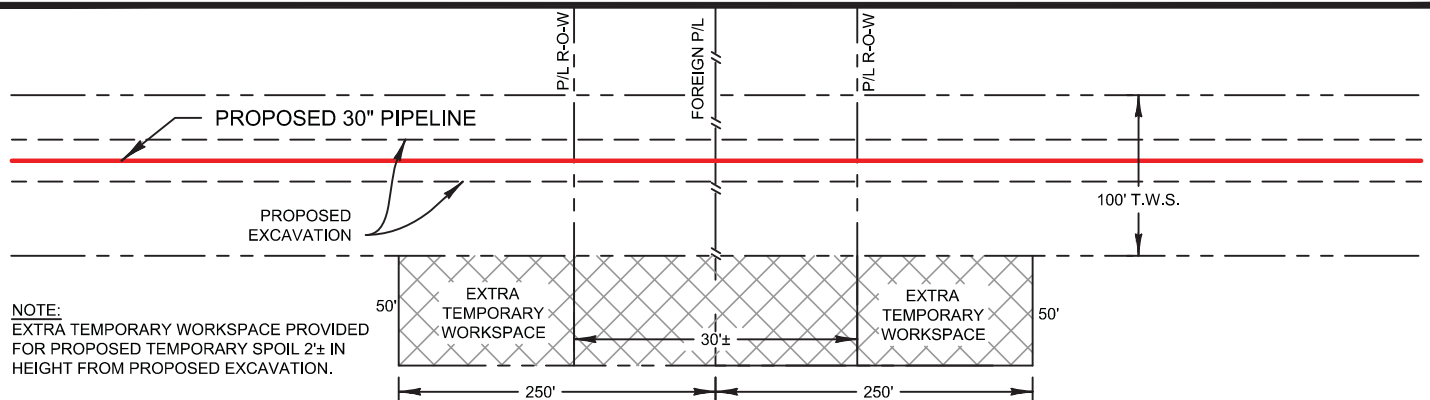


TYPICAL WATERWAY HORIZONTAL
DIRECTIONAL DRILL DETAIL
PROPOSED 30" PIPELINE
ST. JAMES TO LOOP



DRAWN BY: MPH	SHEET: 32
CHKD./APPD. BY: GML	SCALE: NONE
UPDATED BY:	DATE: 04/10/19
DATA BASE: 13111	JOB NO. 13111-00
MPH CAD FILE: 13111COE0032A0.DWG	

P:\01-Survey_Projects\Phillips 66\13111 COE\DWG\Permits\COE\13111COE0033A0.dwg PLOT DATE: 4/11/19 2:03:48pm



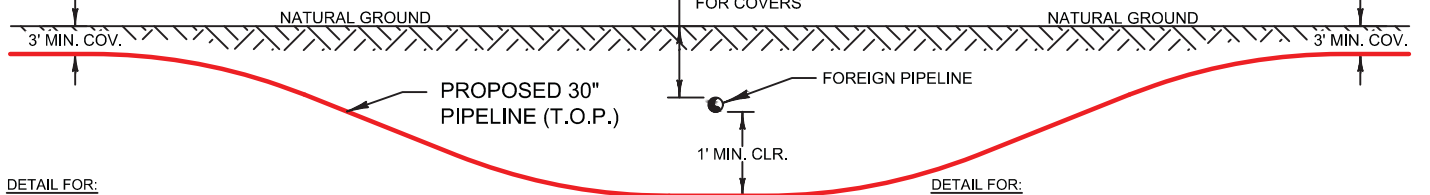
PLAN
NOT TO SCALE

DETAIL FOR:

STA. 92+47 24" WILLIAMS P/L (SIGNAL ONLY)(SEE SHEET 2)
STA. 125+88 24" BAYOU BRIDGE P/L (11.3' COV.)(SEE SHEET 2)
STA. 126+96 GULF SOUTH P/L (4' COV.)(SEE SHEET 2)
STA. 127+23 6" PLAINS P/L (1.6' COV.)(SEE SHEET 2)
STA. 179+94 12" ENTERPRISE P/L (4.2' COV.)(SEE SHEET 2)
STA. 292+29 12" ENLINK P/L (5.2' COV.)(SEE SHEET 3)
STA. 349+45 8" ENTERPRISE P/L (7.0' COV.)(SEE SHEET 4)
STA. 358+34 12" WILLIAMS P/L (3.1' COV.)(SEE SHEET 4)
STA. 358+60 12" WILLIAMS P/L (4.4' COV.)(SEE SHEET 4)
STA. 358+87 12" WILLIAMS P/L (3.6' COV.)(SEE SHEET 4)
STA. 359+13 6" BOARDWALK P/L (3.9' COV.)(SEE SHEET 4)
STA. 372+29 8" ENTERPRISE P/L (5.8' COV.)(SEE SHEET 4)
STA. 372+80 12" CHEVRON P/L (3.6' COV.)(SEE SHEET 4)
STA. 386+52 12" ENTERPRISE P/L (8.0' COV.)(SEE SHEET 4)
STA. 413+00 8" UCAR P/L (4.3' COV.)(SEE SHEET 4)
STA. 413+01 8" UCAR P/L (4.5' COV.)(SEE SHEET 4)
STA. 413+58 12" TEXAS BRINE (4.7' COV.)(SEE SHEET 4)
STA. 414+16 6" NUSTAR P/L (6.8' COV.)(SEE SHEET 4)
STA. 691+85 12" BRIDGELINE P/L (4.7' COV.)(SEE SHEET 6)
STA. 722+18 8" ENTERPRISE P/L (4.2' COV.)(SEE SHEET 6)
STA. 868+85 8" PHILLIPS 66 P/L (9.6' COV.)(SEE SHEET 7)

DETAIL FOR:

STA. 1379+89 36" TEXAS EASTERN P/L (5.6' COV.)(SEE SHEET 10)
STA. 1511+21 36" GENESIS P/L (3.4' COV.)(SEE SHEET 11)
STA. 1568+94 8" TEXAS EASTERN P/L (2.7' COV.)(SEE SHEET 11)
STA. 1570+77 12" GULF SOUTH P/L (5.2' COV.)(SEE SHEET 11)
STA. 1570+90 16" GULF SOUTH P/L (4.8' COV.)(SEE SHEET 11)
STA. 1571+41 12" GULF SOUTH P/L (5.4' COV.)(SEE SHEET 11)
STA. 1571+56 16" GULF SOUTH P/L (4.3' COV.)(SEE SHEET 11)
STA. 1574+42 30" GULF SOUTH P/L (3.2' COV.)(SEE SHEET 11)
STA. 1584+57 12" GULF SOUTH P/L (2.6' COV.)(SEE SHEET 11)
STA. 1679+15 14" GULF SOUTH P/L (1.9' COV.)(SEE SHEET 12)
STA. 1797+24 12" GULF SOUTH P/L (4.1' COV.)(SEE SHEET 13)
STA. 1798+07 6" GULF SOUTH P/L (3.1' COV.)(SEE SHEET 13)
STA. 1849+77 30" TEXAS EASTERN P/L (7.0' COV.)(SEE SHEET 13)
STA. 1894+00 8" GULF SOUTH P/L (3.8' COV.)(SEE SHEET 13)
STA. 1894+50 8" GULF SOUTH P/L (3.5' COV.)(SEE SHEET 13)
STA. 1900+83 6" GULF SOUTH P/L (2.2' COV.)(SEE SHEET 13)
STA. 1903+01 6" ENTERPRISE P/L (2.2' COV.)(SEE SHEET 13)
STA. 1980+66 12" SHELL P/L (4.9' COV.)(SEE SHEET 14)
STA. 1989+13 24" SHELL P/L (10.6' COV.)(SEE SHEET 14)
STA. 2090+00 GENERAL AMERICAN P/L (1.0' COV.)(SEE SHEET 14)
STA. 2121+68 8" GULF SOUTH P/L (3.8' COV.)(SEE SHEET 15)



PROFILE
NOT TO SCALE

DETAIL FOR:

STA. 926+04 1.5" ATMOS GASLINE (3.0' COV.)(SEE SHEET 7)
STA. 1056+22 16" EPCO P/L (11.6' COV.)(SEE SHEET 8)
STA. 1271+68 8" ENTERPRISE P/L (5.5' COV.)(SEE SHEET 9)
STA. 1358+19 UNKNOWN P/L (SIGNAL ONLY)(SEE SHEET 10)
STA. 1358+23 UNKNOWN P/L (SIGNAL ONLY)(SEE SHEET 10)
STA. 1358+52 3" UNKNOWN P/L (SIGNAL ONLY)(SEE SHEET 10)
STA. 1358+58 3" UNKNOWN P/L (SIGNAL ONLY)(SEE SHEET 10)
STA. 1374+10 2" UNKNOWN P/L (1.5' COV.)(SEE SHEET 10)
STA. 1375+47 2" UNKNOWN P/L (EXPOSED)(SEE SHEET 10)

DETAIL FOR:

STA. 2299+63 12" CHEVRON P/L (SIGNAL ONLY)(SEE SHEET 16)
STA. 2455+81 6" TENN. GAS P/L (4.8' COV.)(SEE SHEET 17)
STA. 2575+08 8" UNITED GAS P/L (4.3' COV.)(SEE SHEET 18)
STA. 2623+76 20" UNITED GAS P/L (7.3' COV.)(SEE SHEET 18)
STA. 2633+70 16" SOUTHERN NAT. GAS P/L (8.2' COV.)(SEE SHEET 18)
STA. 2661+32 16" EXXON P/L (11' COV.)(SEE SHEET 18)
STA. 2662+10 12" EXXON P/L (11' COV.)(SEE SHEET 18)
STA. 2716+44 36" TEXAS EASTERN P/L (9.7' COV.)(SEE SHEET 18)
STA. 2729+37 6" TENN. GAS P/L (12.5' COV.)(SEE SHEET 19)

NOTES:

THIS DRAWING WAS PREPARED FOR PERMIT PURPOSES ONLY, AND IS NOT A PROPERTY BOUNDARY SURVEY AND AS SUCH DOES NOT COMPLY WITH THE MOST RECENT "STANDARDS OF PRACTICE FOR PROPERTY BOUNDARY SURVEYS" AS ADOPTED BY THE LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD.

AN ON-THE-GROUND EFFORT WAS MADE TO LOCATE AND INDICATE ALL BELOW GROUND FERROUS METAL CABLES, PIPELINES AND UTILITIES IN THE AREAS DESCRIBED ABOVE; HOWEVER, DUE TO THE INHERENT LIMITATIONS OF ELECTRONIC MAGNETIC LOCATING EQUIPMENT, MORRIS P. HEBERT, INC. IS NOT RESPONSIBLE FOR ANY CABLES, PIPELINES, UTILITIES OR ANY OTHER BELOW GROUND STRUCTURES (INCLUDING PVC) NOT LOCATED DURING THE COURSE OF THE SURVEY. MPH'S EFFORTS DO NOT RELIEVE THE LA ONE CALL RESPONSIBILITY PRIOR TO MOBILIZATION OF EQUIPMENT AND/OR EXCAVATION.

FOR PERMITTING ONLY - THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE OR SALES.
GERARD M. LEGENDRE, P.L.S., LA. LAND SURVEYOR REG. NO. 4966

NO. DATE REV. BY:

REVISION



TYPICAL FOREIGN PIPELINE
CROSSING DETAIL
PROPOSED 30" PIPELINE
ST. JAMES TO LOOP



DRAWN BY: MPH

SHEET: 33

CHKD./APPD. BY: GML

SCALE: NONE

UPDATED BY:

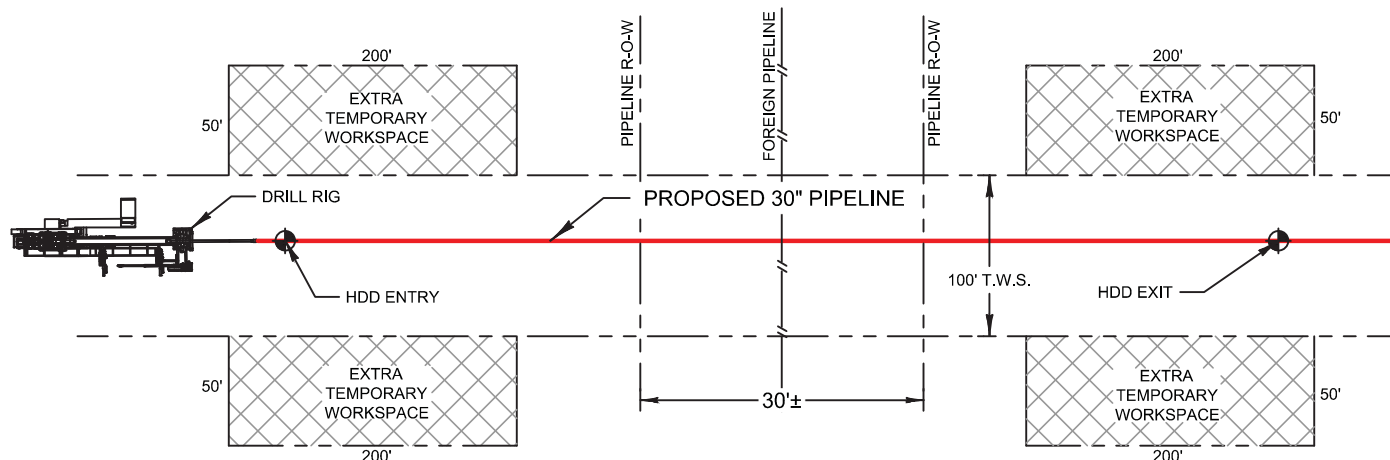
DATE: 04/10/19

DATA BASE: 13111

JOB NO. 13111-00

MPH CAD FILE: 13111COE0033A0.DWG

P:\01-Survey_Projects\Phillips 66\13111 ACE\DWG\Permits\COE\13111COE0034A0.dwg PLOT DATE: 4/12/19 4:40:01pm

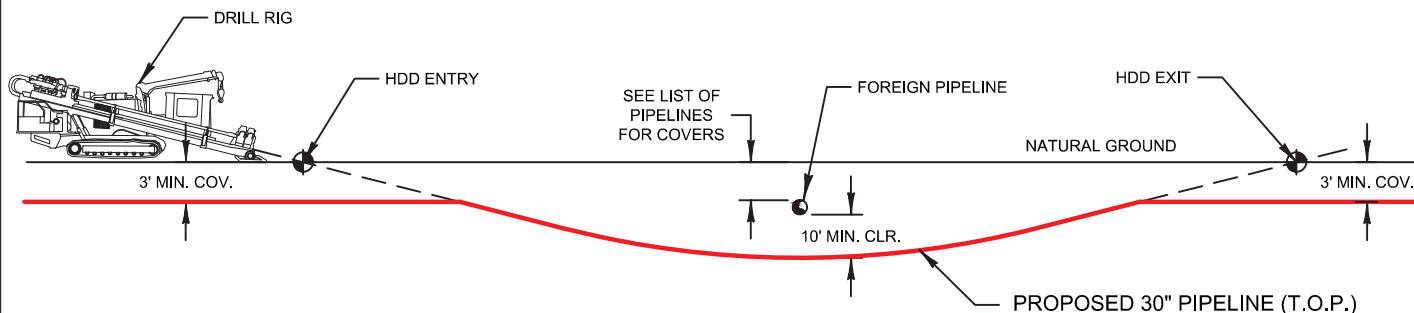


PLAN
NOT TO SCALE

NOTE:
EXTRA TEMPORARY WORKSPACE
PROVIDED FOR DRILL RIG & EQUIPMENT,
NOT FOR PROPOSED TEMPORARY SPOIL.

DETAIL FOR:
STA. 162+51 6" BOARDWALK P/L (5.1' COV.)(SEE SHEET 2)
STA. 163+34 12" AIR LIQUIDE P/L (5.8' COV.)(SEE SHEET 2)
STA. 163+30 12" AIR LIQUIDE P/L (6.3' COV.)(SEE SHEET 2)
STA. 166+04 12" WILLIAMS P/L (SIGNAL ONLY)(SEE SHEET 2)
STA. 166+23 12" WILLIAMS P/L (SIGNAL ONLY)(SEE SHEET 2)
STA. 166+47 12" WILLIAMS P/L (SIGNAL ONLY)(SEE SHEET 2)
STA. 166+94 12" ENLINK P/L (SIGNAL ONLY)(SEE SHEET 2)
STA. 166+94 12" WILLIAMS P/L(SIGNAL ONLY)(SEE SHEET 2)
STA. 167+61 48" LOOP P/L (5.5' COV.)(SEE SHEET 2)

DETAIL FOR:
STA. 903+58 18" ENLINK P/L (4.1' COV.)(SEE SHEET 7)
STA. 904+97 12" ENTERPRISE P/L (5.5' COV.)(SEE SHEET 7)
STA. 905+72 12" ENTERPRISE P/L (7.3' COV.)(SEE SHEET 7)
STA. 914+19 12" ENLINK P/L (4.5' COV.)(SEE SHEET 7)
STA. 914+86 12" ENLINK P/L (4.5' COV.)(SEE SHEET 7)
STA. 916+04 10" TEXAS GAS TRANS. P/L (4.4' COV.)(SEE SHEET 7)
STA. 1432+37 TRANSCO PIPELINE (3.8' COV.)(SEE SHEET 10)
STA. 1432+99 48" LOOP P/L (11.6' COV.)(SEE SHEET 10)



PROFILE
NOT TO SCALE

NOTES:
THIS DRAWING WAS PREPARED FOR PERMIT PURPOSES ONLY, AND IS NOT A PROPERTY BOUNDARY SURVEY AND AS SUCH DOES NOT COMPLY WITH THE MOST RECENT
"STANDARDS OF PRACTICE FOR PROPERTY BOUNDARY SURVEYS" AS ADOPTED BY THE LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD.

AN ON-THE-GROUND EFFORT WAS MADE TO LOCATE AND INDICATE ALL BELOW GROUND FERROUS METAL CABLES, PIPELINES AND UTILITIES IN THE AREAS DESCRIBED ABOVE;
HOWEVER, DUE TO THE INHERENT LIMITATIONS OF ELECTRONIC MAGNETIC LOCATING EQUIPMENT, MORRIS P. HEBERT, INC. IS NOT RESPONSIBLE FOR ANY CABLES, PIPELINES,
UTILITIES OR ANY OTHER BELOW GROUND STRUCTURES (INCLUDING PVC) NOT LOCATED DURING THE COURSE OF THE SURVEY. MPH'S EFFORTS DO NOT RELIEVE THE LA ONE
CALL RESPONSIBILITY PRIOR TO MOBILIZATION OF EQUIPMENT AND OR EXCAVATION.

FOR PERMITTING ONLY - THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE OR SALES.
GERARD M. LEGENDRE, P.L.S., LA. LAND SURVEYOR REG. NO. 4966

NO.	DATE	REV. BY:	REVISION
-----	------	----------	----------

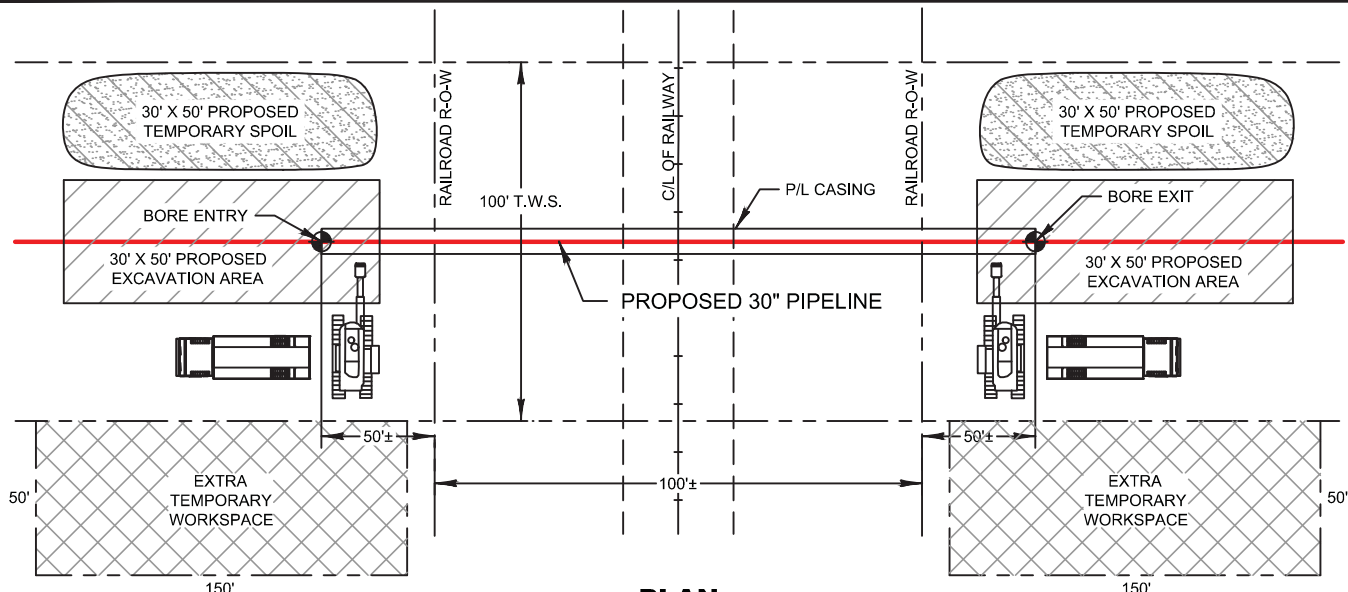


TYPICAL FOREIGN PIPELINE
HORIZONTAL DIRECTIONAL DRILL DETAIL
PROPOSED 30" PIPELINE
ST. JAMES TO LOOP



DRAWN BY:	MPH	SHEET:	34
CHKD./APPD. BY:	GML	SCALE:	NONE
UPDATED BY:		DATE:	04/12/2019
DATA BASE:	13111	JOB NO.	13111-00
MPH CAD FILE: 13111COE0034A0.DWG			

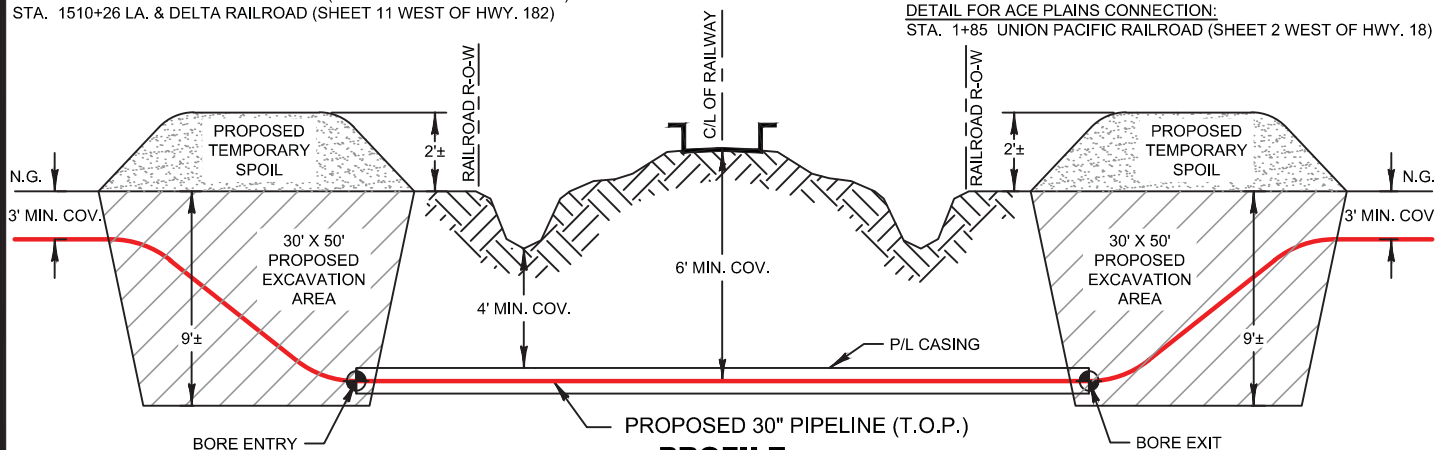
P:\01-Survey_Projects\Phillips 66\13111 ACE\DWG\Permits\COE\13111COE0035A0.dwg PLOT DATE: 4/17/19 11:43:53am



PLAN
NOT TO SCALE

NOTE:
EXTRA TEMPORARY WORKSPACE PROVIDED FOR PROPOSED TEMPORARY SPOIL 2'± IN HEIGHT FROM PROPOSED EXCAVATION.

DETAIL FOR ACE PLAINS CONNECTION:
STA. 1+85 UNION PACIFIC RAILROAD (SHEET 2 WEST OF HWY. 182)



PROFILE
NOT TO SCALE

NOTES:
THIS DRAWING WAS PREPARED FOR PERMIT PURPOSES ONLY, AND IS NOT A PROPERTY BOUNDARY SURVEY AND AS SUCH DOES NOT COMPLY WITH THE MOST RECENT "STANDARDS OF PRACTICE FOR PROPERTY BOUNDARY SURVEYS" AS ADOPTED BY THE LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD.

AN ON-THE-GROUND EFFORT WAS MADE TO LOCATE AND INDICATE ALL BELOW GROUND FERROUS METAL CABLES, PIPELINES AND UTILITIES IN THE AREAS DESCRIBED ABOVE; HOWEVER, DUE TO THE INHERENT LIMITATIONS OF ELECTRONIC MAGNETIC LOCATING EQUIPMENT, MORRIS P. HEBERT, INC. IS NOT RESPONSIBLE FOR ANY CABLES, PIPELINES, UTILITIES OR ANY OTHER BELOW GROUND STRUCTURES (INCLUDING PVC) NOT LOCATED DURING THE COURSE OF THE SURVEY. MPH'S EFFORTS DO NOT RELIEVE THE LA ONE CALL RESPONSIBILITY PRIOR TO MOBILIZATION OF EQUIPMENT AND OR EXCAVATION.

FOR PERMITTING ONLY - THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE OR SALES.
GERARD M. LEGENDRE, P.L.S., LA. LAND SURVEYOR REG. NO. 4966

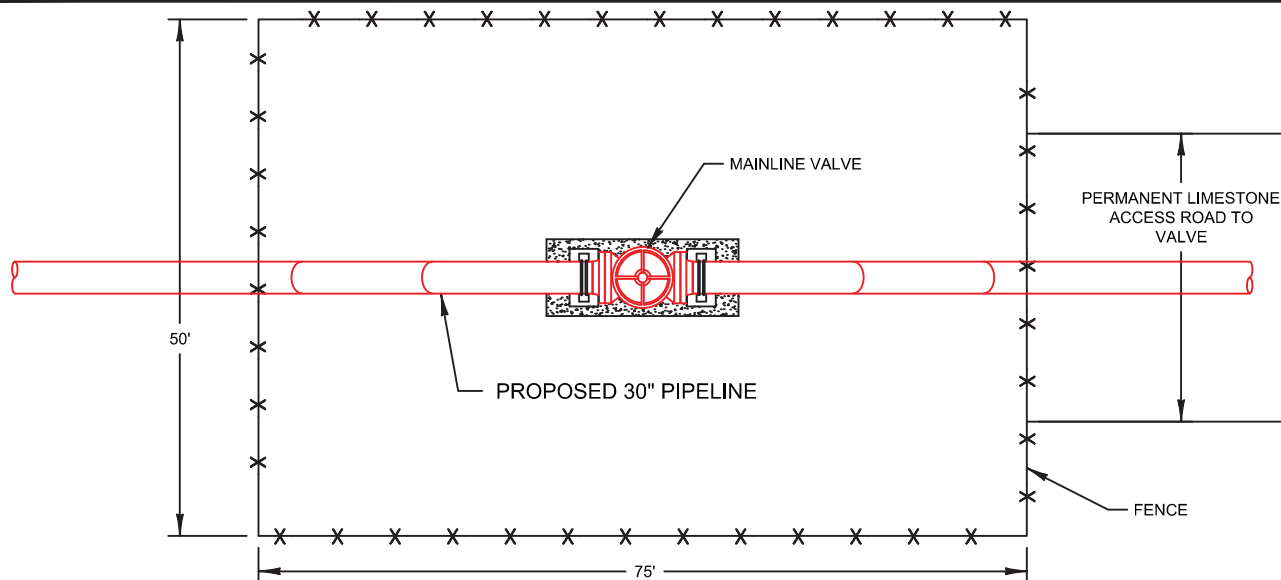
NO.	DATE	REV. BY:	REVISION
-----	------	----------	----------



TYPICAL RAILWAY BORE DETAIL
PROPOSED 30" PIPELINE
ST. JAMES TO LOOP



DRAWN BY: MPH	SHEET: 35
CHKD./APPD. BY: GML	SCALE: NONE
UPDATED BY:	DATE: 04/17/19
DATA BASE: 13111	JOB NO. 13111-00
MPH CAD FILE: 13111COE0035A0.DWG	



PLAN
NOT TO SCALE

DETAIL FOR ACE PLAINS CONNECTION:

STA. 0+00 MLV-BV-1B (210' X 430')(SHEETS 2 & 51 PROPOSED PUMP STATION SITE 2)

DETAIL FOR ST. JAMES TO LOOP:

STA. 0+00 MLV-BV-1A (210' X 430')(SHEETS 2 & 50 PROPOSED PUMP STATION SITE 1)

STA. 621+87 MLV-BV-2 (SHEETS 5 & 52 SOUTH OF HWY. 20)

STA. 1516+15 MLV-BV-3 (SHEETS 11 & 53 EAST OF HWY. 182)

STA. 2398+46 MLV-BV-5 (SHEETS 16 & 54 EAST OF G.I.W.W.)

DETAIL FOR ST. JAMES TO LOOP:

STA. 0+00 MLV-BV-1A (SHEETS 2 & 50)(EXISTING ACCESS ROAD 25' X 694'±)

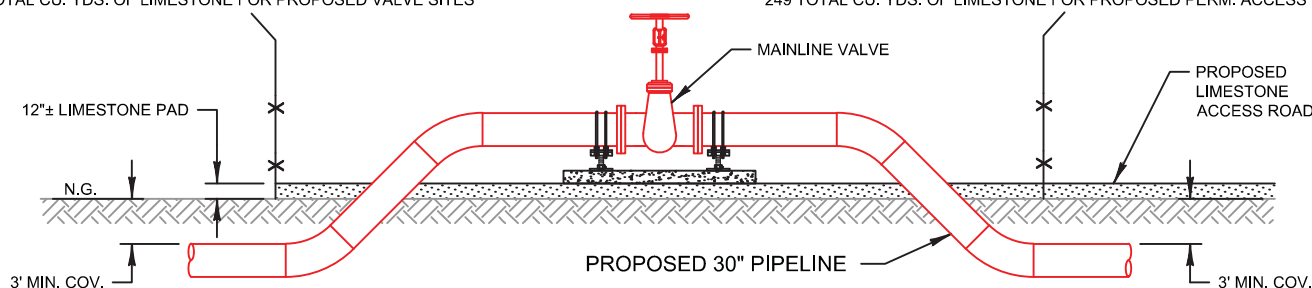
STA. 621+87 MLV-BV-2 (SHEETS 5 & 52)(PROP. 25' X 41'± ACCESS RD.)

STA. 1515+02 MLV-BV-3 (SHEETS 11 & 53)(PROP. 25' X 183'± ACCESS RD.)

STA. 2398+46 MLV-BV-5 (SHEETS 16 & 54)(PROP. 25' X 44'± ACCESS RD.)

417 TOTAL CU. YDS. OF LIMESTONE FOR PROPOSED VALVE SITES

249 TOTAL CU. YDS. OF LIMESTONE FOR PROPOSED PERM. ACCESS ROADS



PROFILE
NOT TO SCALE

NOTES:

THIS DRAWING WAS PREPARED FOR PERMIT PURPOSES ONLY, AND IS NOT A PROPERTY BOUNDARY SURVEY AND AS SUCH DOES NOT COMPLY WITH THE MOST RECENT "STANDARDS OF PRACTICE FOR PROPERTY BOUNDARY SURVEYS" AS ADOPTED BY THE LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD.

AN ON-THE-GROUND EFFORT WAS MADE TO LOCATE AND INDICATE ALL BELOW GROUND FERROUS METAL CABLES, PIPELINES AND UTILITIES IN THE AREAS DESCRIBED ABOVE; HOWEVER, DUE TO THE INHERENT LIMITATIONS OF ELECTRONIC MAGNETIC LOCATING EQUIPMENT, MORRIS P. HEBERT, INC. IS NOT RESPONSIBLE FOR ANY CABLES, PIPELINES, UTILITIES OR ANY OTHER BELOW GROUND STRUCTURES (INCLUDING PVC) NOT LOCATED DURING THE COURSE OF THE SURVEY. MPH'S EFFORTS DO NOT RELIEVE THE LA ONE CALL RESPONSIBILITY PRIOR TO MOBILIZATION OF EQUIPMENT AND OR EXCAVATION.

FOR PERMITTING ONLY - THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE OR SALES.
GERARD M. LEGENDRE, P.L.S., LA. LAND SURVEYOR REG. NO. 4966

NO.	DATE	REV. BY:	REVISION

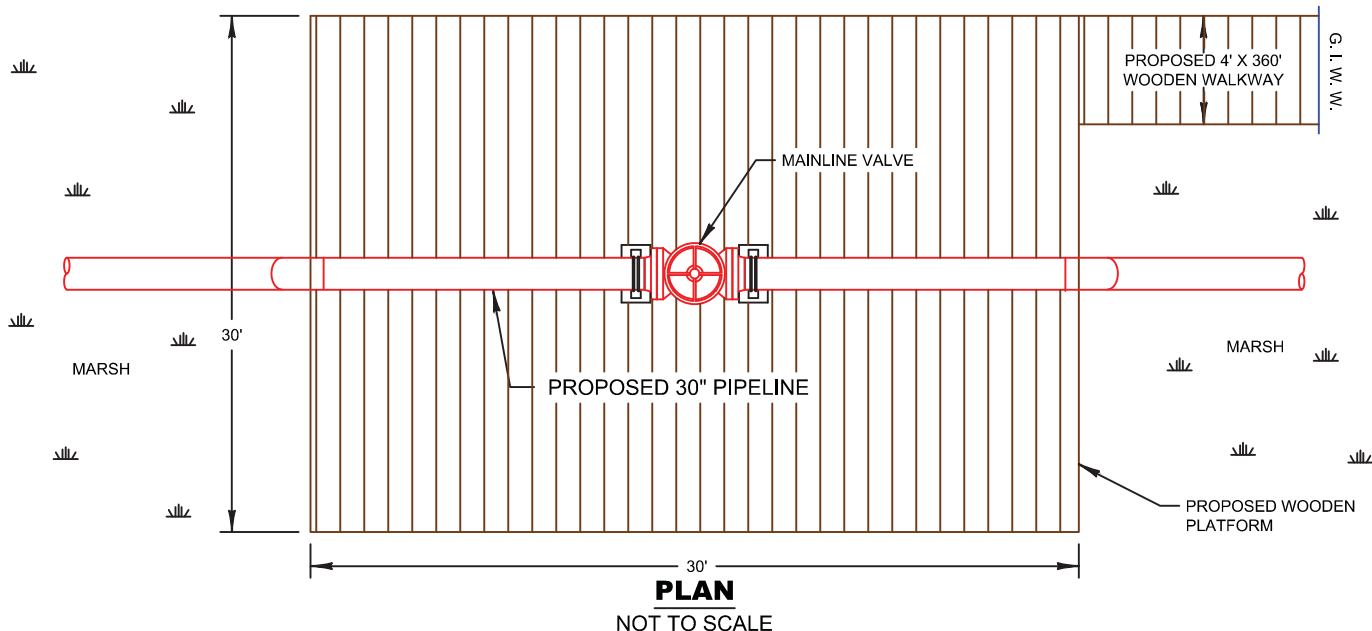


TYPICAL VALVE WITH
PERMANENT ACCESS ROAD DETAIL
PROPOSED 30" PIPELINE
ST. JAMES TO LOOP



DRAWN BY:	MPH	SHEET:	36
CHKD./APPD. BY:	GML	SCALE:	NONE
UPDATED BY:		DATE:	03/25/19
DATA BASE:	13111	JOB NO.	13111-00
MPH CAD FILE: 13111COE0036A0.DWG			

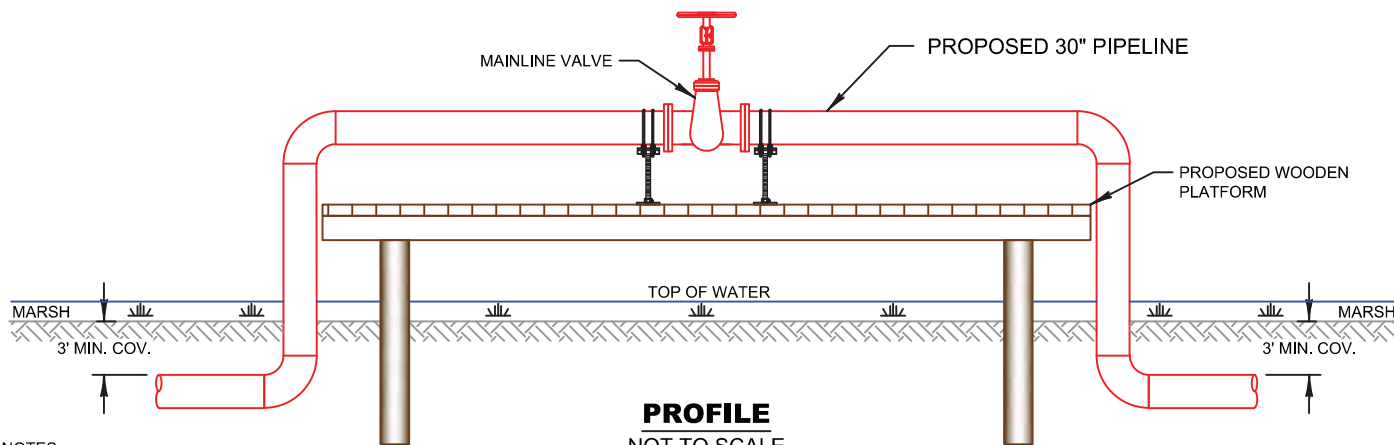
P:\01-Survey_Projects\Phillips 66\13111 ACE\DWG\Permits\COE\13111COE0037A0.dwg PLOT DATE: 3/6/19 2:16:21pm



DETAIL FOR:

STA. 2384+09 MLV-BV-4 (SHEET 16 WEST OF G.I.W.W.) - 4' X 360' WALKWAY

STA. 3074+16 MLV-BV-6 (SHEET 21 EAST OF GALLIANO, LA.) - ON PIPE RACK & PLATFORM



NOTES:

THIS DRAWING WAS PREPARED FOR PERMIT PURPOSES ONLY, AND IS NOT A PROPERTY BOUNDARY SURVEY AND AS SUCH DOES NOT COMPLY WITH THE MOST RECENT "STANDARDS OF PRACTICE FOR PROPERTY BOUNDARY SURVEYS" AS ADOPTED BY THE LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD.

AN ON-THE-GROUND EFFORT WAS MADE TO LOCATE AND INDICATE ALL BELOW GROUND FERROUS METAL CABLES, PIPELINES AND UTILITIES IN THE AREAS DESCRIBED ABOVE; HOWEVER, DUE TO THE INHERENT LIMITATIONS OF ELECTRONIC MAGNETIC LOCATING EQUIPMENT, MORRIS P. HEBERT, INC. IS NOT RESPONSIBLE FOR ANY CABLES, PIPELINES, UTILITIES OR ANY OTHER BELOW GROUND STRUCTURES (INCLUDING PVC) NOT LOCATED DURING THE COURSE OF THE SURVEY. MPH'S EFFORTS DO NOT RELIEVE THE LA ONE CALL RESPONSIBILITY PRIOR TO MOBILIZATION OF EQUIPMENT AND OR EXCAVATION.

FOR PERMITTING ONLY - THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE OR SALES.
GERARD M. LEGENDRE, P.L.S., LA. LAND SURVEYOR REG. NO. 4966

NO.	DATE	REV. BY:	REVISION
-----	------	----------	----------



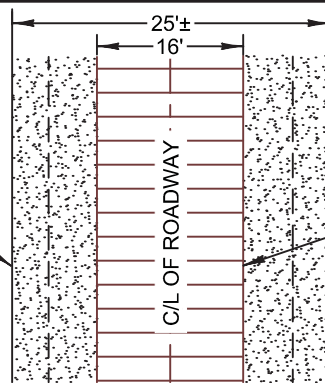
TYPICAL VALVE PLATFORM DETAIL
PROPOSED 30" PIPELINE
ST. JAMES TO LOOP



DRAWN BY:	MPH	SHEET:	37
CHKD./APPD. BY:	GML	SCALE:	NONE
UPDATED BY:		DATE:	02/28/19
DATA BASE:	13111	JOB NO.	13111-00
MPH CAD FILE: 13111COE0037A0.DWG			

P:\01-Survey_Projects\Phillips 66\13111 ACE\DWG\Permits\COE\13111COE0038A0.dwg PLOT DATE: 2/27/19 4:21:41pm

±1' OPTIONAL TEMPORARY
SAND FILL (TO BE REMOVED)



OPTIONAL TEMPORARY
BOARD MATS

DETAIL FOR DIRT ROADS:

STA. 26+22 DIRT RD. (SHT. 2 CANE FIELD).....	±3,849'
STA. 47+23 DIRT RD. (SHT. 2 CANE FIELD).....	±3,651'
STA. 67+85 DIRT RD. (SHT. 2 CANE FIELD).....	±4,392'
STA. 108+21 DIRT RD. (SHT. 2 CANE FIELD).....	±546'
STA. 148+27 DIRT RD. (SHT. 2 NORTH & SOUTH OF HWY. 3127).....	±1,507'
STA. 188+58 DIRT RD. (SHT. 3 SOUTH OF HWY. 3127).....	±149'
STA. 209+81 DIRT RD. (SHT. 3 SOUTH OF HWY. 3127).....	±395'
STA. 222+86 DIRT RD. (SHT. 3 SOUTH OF HWY. 3127).....	±361'
STA. 243+02 DIRT RD. (SHT. 3 SOUTH OF HWY. 3127).....	±614'
STA. 258+14 DIRT RD. (SHT. 3 SOUTH OF HWY. 3127).....	±491'
STA. 277+30 DIRT RD. (SHT. 3 SOUTH OF HWY. 3127).....	±495'
STA. 294+18 DIRT RD. (SHT. 3 SOUTH OF HWY. 3127).....	±522'
STA. 315+86 DIRT RD. (SHT. 3 SOUTH OF HWY. 3127).....	±373'
STA. 359+02 DIRT RD. (SHT. 4 SOUTH OF HWY. 3127).....	±604'
STA. 585+55 GRAND DRIVE (DIRT PART)(SHT. 5 NORTH OF HWY. 20).....	±2,040'
STA. 905+78 DIRT RD. (SHT. 7 NORTH OF CHOCTAW RD.).....	±1,421'
STA. 1460+65 DIRT RD. (SHT. 11 NORTH OF HWY. 308).....	±6,620'
STA. 1490+27 DIRT RD. (SHT. 11 WEST OF HWY. 182).....	±3,138'
STA. 1569+17 DIRT RD. (SHT. 11 WEST OF HWY. 90).....	±3,854'
STA. 1699+56 SUGAR MILL DR. (DIRT)(SHT. 12 NORTH OF HWY. 308).....	±5,997'
STA. 1741+62 DIRT RD. (SHT. 12 NORTH OF HWY. 308).....	±6,125'
STA. 1788+91 DIRT RD. (SHT. 12 SOUTH OF GHEENS SHORT CUT RD.).....	±1,747'
STA. 2134+55 DIRT RD. (SHT. 15 NORTH OF LUDEVINE, LA.).....	±7,852'
STA. 2412+37 DIRT RD. (SHT. 16 NORTH OF LAROSE, LA.).....	±1,724'
STA. 2740+53 DIRT RD. (SHT. 19 EAST OF CUT OFF, LA.).....	±566'

PLAN

NOT TO SCALE

DETAIL FOR LIMESTONE ROADS:

STA. 8+67 LIMESTONE RD. (SHT. 2 NEAR LOCAP METER SITE).....	±2,749'
STA. 126+86 MBC PLANTATION RD. (LIMESTONE)(SHT. 2 NORTH OF HWY. 3127).....	±486'
STA. 360+26 LIMESTONE RD. (SHT. 4 SOUTH OF HWY. 3127).....	±848'
STA. 939+99 LIMESTONE RD. (SHT. 7 SOUTH OF CHOCTAW RD.).....	±1,912'
STA. 1358+32 RACELAND STOCKYARD RD. (LIMESTONE)(SHT. 10 NORTH OF HWY. 308).....	±9,100'
STA. 1374+93 RACELAND STOCKYARD RD. (LIMESTONE)(SHT. 10 NORTH OF HWY. 308).....	±1,890'
STA. 1655+13 AMARADA HESS RD. (LIMESTONE)(SHT. 12 NORTH OF HWY. 308).....	±6,488'
STA. 1909+50 PUMP STATION RD. (LIMESTONE)(SHT. 13 SOUTH OF HWY. 654).....	±9,811'
STA. 2310+61 HAMILTON ST. (LIMESTONE)(SHT. 16 NORTH OF LAROSE, LA.).....	±4,115'
STA. 3057+74 LIMESTONE RD. (SHT. 21 EAST OF CUT OFF, LA.).....	±1,555'

±38,954' OR 7.38 MILES OF TOTAL EXISTING TEMP. ACCESS LIMESTONE ROADS

36,069 TOTAL CU. YDS. OF TOTAL EXISTING TEMP. ACCESS LIMESTONE ROADS

±58,033 OR 9.97 MILES OF TOTAL POTENTIAL BOARD MATS FOR TEMP. ACCESS DIRT RDS.

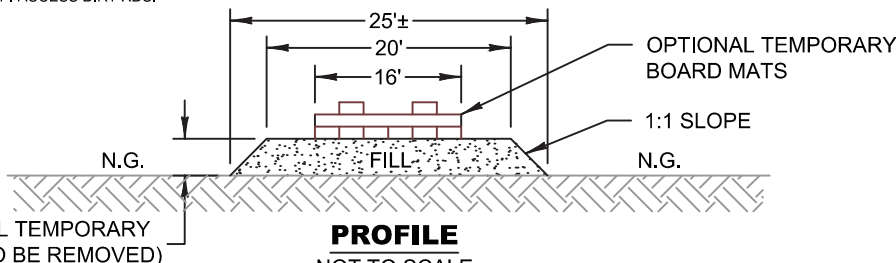
34,390 TOTAL CU. YDS. OF POTENTIAL BOARD MATS FOR TEMP. ACCESS DIRT RDS.

21.32 TOTAL ACRES OF POTENTIAL BOARD MATS FOR TEMP. ACCESS DIRT RDS.

53,734 TOTAL CU. YDS. OF POTENTIAL SAND FOR TEMP. ACCESS DIRT RDS.

NOTES:

BOARD MAT TOTALS WILL VARY DUE TO
WEATHER (RAIN), ELEVATIONS (LOW AREAS)
AND EQUIPMENT (WEIGHT).



NOTES:

THIS DRAWING WAS PREPARED FOR PERMIT PURPOSES ONLY, AND IS NOT A PROPERTY BOUNDARY SURVEY AND AS SUCH DOES NOT COMPLY WITH THE MOST RECENT
"STANDARDS OF PRACTICE FOR PROPERTY BOUNDARY SURVEYS" AS ADOPTED BY THE LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD.

AN ON-THE-GROUND EFFORT WAS MADE TO LOCATE AND INDICATE ALL BELOW GROUND FERROUS METAL CABLES, PIPELINES AND UTILITIES IN THE AREAS DESCRIBED ABOVE;
HOWEVER, DUE TO THE INHERENT LIMITATIONS OF ELECTRONIC MAGNETIC LOCATING EQUIPMENT, MORRIS P. HEBERT, INC. IS NOT RESPONSIBLE FOR ANY CABLES, PIPELINES,
UTILITIES OR ANY OTHER BELOW GROUND STRUCTURES (INCLUDING PVC) NOT LOCATED DURING THE COURSE OF THE SURVEY. MPH'S EFFORTS DO NOT RELIEVE THE LA ONE
CALL RESPONSIBILITY PRIOR TO MOBILIZATION OF EQUIPMENT AND OR EXCAVATION.

FOR PERMITTING ONLY - THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE OR SALES.
GERARD M. LEGENDRE, P.L.S., LA. LAND SURVEYOR REG. NO. 4966

NO.	DATE	REV. BY:
-----	------	----------

REVISION



TYPICAL TEMPORARY ACCESS ROAD DETAIL
PROPOSED 30" PIPELINE
ST. JAMES TO LOOP



DRAWN BY: MPH

SHEET: 38

CHKD./APPD. BY: GML

SCALE: NONE

UPDATED BY:

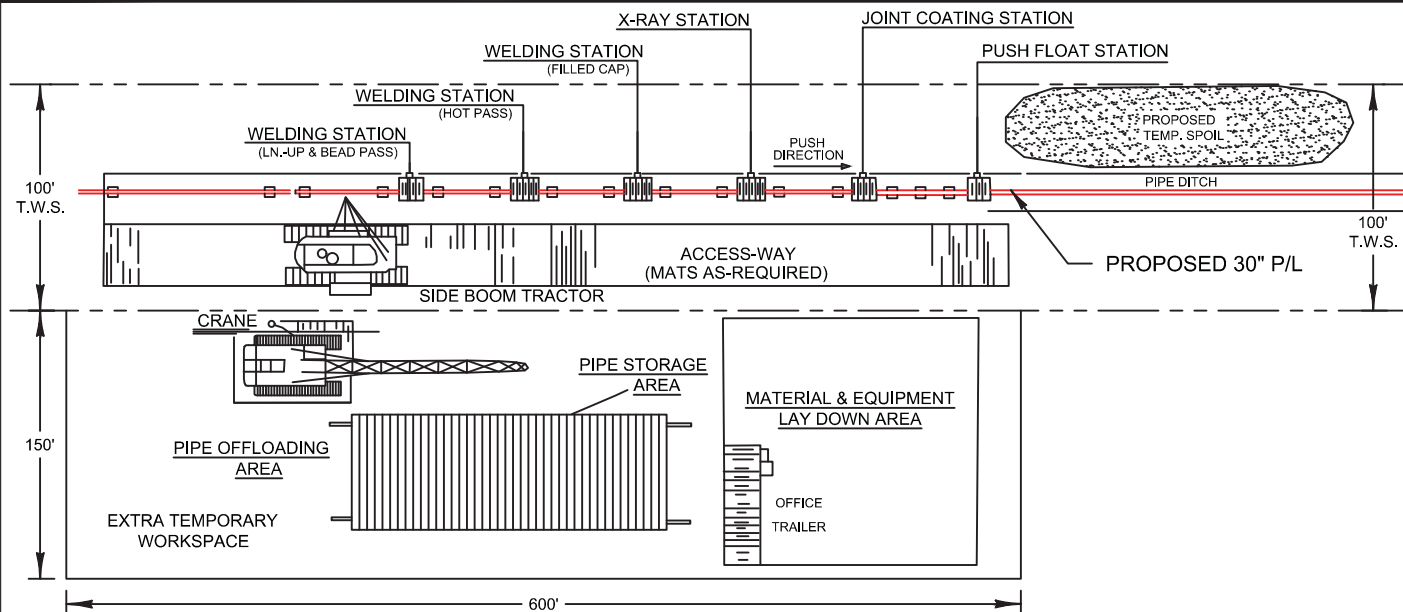
DATE: 02/28/19

DATA BASE: 13111

JOB NO. 13111-00

MPH CAD FILE: 13111COE0038A0.DWG

P:\01-Survey_Projects\Phillips 66\13111 ACE\DWG\Permits\COE\13111COE0039A0.dwg PLOT DATE: 2/27/19 4:23:57pm



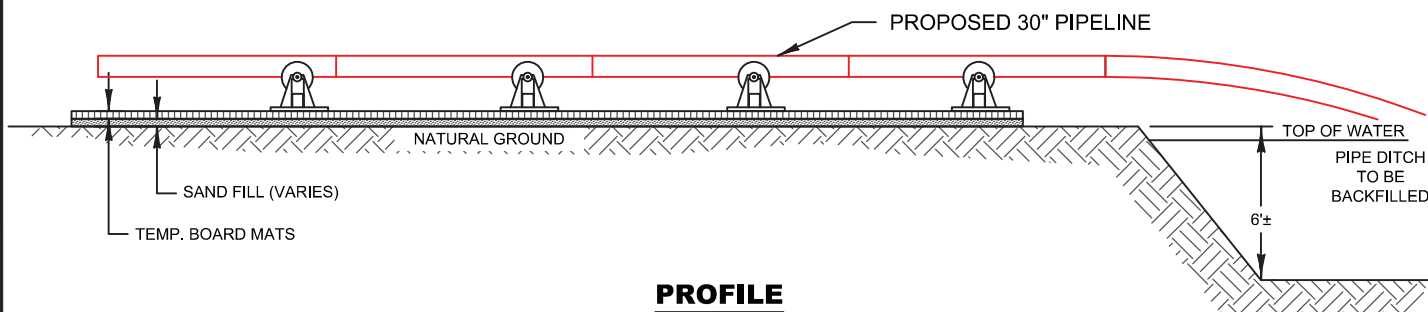
PLAN
NOT TO SCALE

DETAIL FOR:
TYPICAL ROADWAY CROSSING DETAIL (SHEET 28)
TYPICAL WATERWAY CROSSING DETAIL (SHEET 31)
TYPICAL FOREIGN PIPELINE CROSSING DETAIL (SHEET 33)

55,564 TOTAL CU. YDS. OF POTENTIAL BOARD MATS FOR (10) TEMPORARY PUSH SITES

34.44 TOTAL ACRES OF POTENTIAL BOARD MATS FOR (10) TEMPORARY PUSH SITES

55,564 TOTAL CU. YDS. OF POTENTIAL SAND FOR TEMPORARY PUSH SITES



PROFILE
NOT TO SCALE

NOTES:

THIS DRAWING WAS PREPARED FOR PERMIT PURPOSES ONLY, AND IS NOT A PROPERTY BOUNDARY SURVEY AND AS SUCH DOES NOT COMPLY WITH THE MOST RECENT "STANDARDS OF PRACTICE FOR PROPERTY BOUNDARY SURVEYS" AS ADOPTED BY THE LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD.

AN ON-THE-GROUND EFFORT WAS MADE TO LOCATE AND INDICATE ALL BELOW GROUND FERROUS METAL CABLES, PIPELINES AND UTILITIES IN THE AREAS DESCRIBED ABOVE; HOWEVER, DUE TO THE INHERENT LIMITATIONS OF ELECTRONIC MAGNETIC LOCATING EQUIPMENT, MORRIS P. HEBERT, INC. IS NOT RESPONSIBLE FOR ANY CABLES, PIPELINES, UTILITIES OR ANY OTHER BELOW GROUND STRUCTURES (INCLUDING PVC) NOT LOCATED DURING THE COURSE OF THE SURVEY. MPH'S EFFORTS DO NOT RELIEVE THE LA ONE CALL RESPONSIBILITY PRIOR TO MOBILIZATION OF EQUIPMENT AND OR EXCAVATION.

FOR PERMITTING ONLY - THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE OR SALES.
GERARD M. LEGENDRE, P.L.S., LA. LAND SURVEYOR REG. NO. 4966

NO.	DATE	REV. BY:	REVISION
-----	------	----------	----------

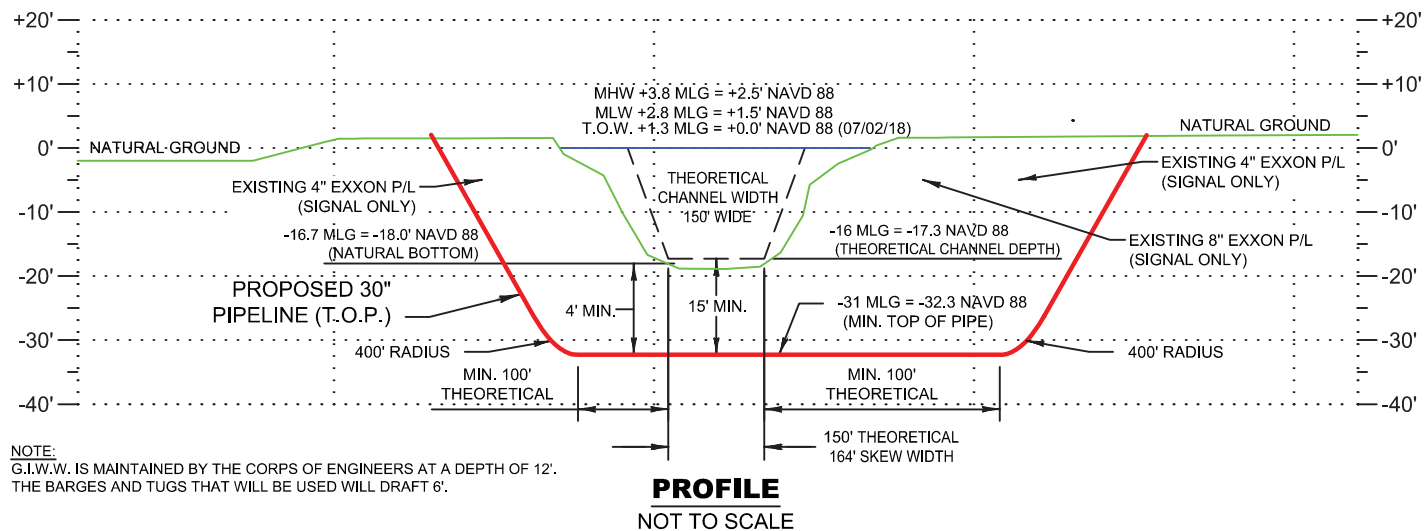
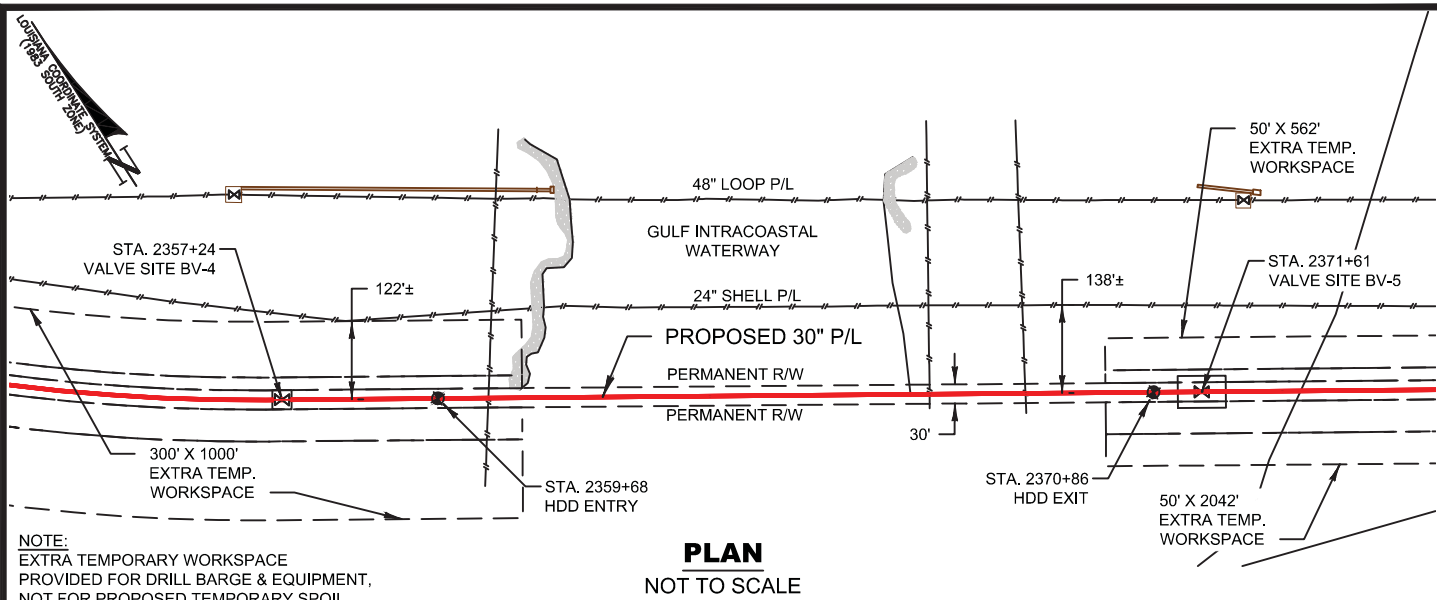


TYPICAL PUSH SITE WORKSPACE DETAIL
PROPOSED 30" PIPELINE
ST. JAMES TO LOOP



DRAWN BY:	MPH	SHEET:	39
CHKD./APPD. BY:	GML	SCALE:	NONE
UPDATED BY:		DATE:	02/28/19
DATA BASE:	13111	JOB NO.	13111-00
MPH CAD FILE: 13111COE0039A0.DWG			

P:\01-Survey_Projects\Phillips 66\13111 ACE\DWG\Permits\COE\13111COE0040A0.dwg PLOT DATE: 3/25/19 3:57:00pm



NOTES:
THIS DRAWING WAS PREPARED FOR PERMIT PURPOSES ONLY, AND IS NOT A PROPERTY BOUNDARY SURVEY AND AS SUCH DOES NOT COMPLY WITH THE MOST RECENT "STANDARDS OF PRACTICE FOR PROPERTY BOUNDARY SURVEYS" AS ADOPTED BY THE LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD.

AN ON-THE-GROUND EFFORT WAS MADE TO LOCATE AND INDICATE ALL BELOW GROUND FERROUS METAL CABLES, PIPELINES AND UTILITIES IN THE AREAS DESCRIBED ABOVE; HOWEVER, DUE TO THE INHERENT LIMITATIONS OF ELECTRONIC MAGNETIC LOCATING EQUIPMENT, MORRIS P. HEBERT, INC. IS NOT RESPONSIBLE FOR ANY CABLES, PIPELINES, UTILITIES OR ANY OTHER BELOW GROUND STRUCTURES (INCLUDING PVC) NOT LOCATED DURING THE COURSE OF THE SURVEY. MPH'S EFFORTS DO NOT RELIEVE THE LA ONE CALL RESPONSIBILITY PRIOR TO MOBILIZATION OF EQUIPMENT AND OR EXCAVATION.

FOR PERMITTING ONLY - THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE OR SALES.
GERARD M. LEGENDRE, P.L.S., LA. LAND SURVEYOR REG. NO. 4966

NO.	DATE	REV. BY:	REVISION
-----	------	----------	----------



WATERWAY CROSSING FOR G.I.W.W.
PROPOSED 30" PIPELINE
ST. JAMES TO LOOP



DRAWN BY:	MPH	SHEET:	40
CHKD./APPD. BY:	GML	SCALE:	NONE
UPDATED BY:		DATE:	03/25/19
DATA BASE:	13111	JOB NO.	13111-00
MPH CAD FILE: 13111COE0040A0.DWG			

CALCULATION CHART

	WETLANDS	OTHER WATERS	UPLANDS	TOTALS
TEMPORARY EXCAVATION IN CU. YDS. (INCLUDES EXCAVATION FOR PUSH BARGE)	1,190,646	104,537	164,081	1,459,264
TEMPORARY EXCAVATION IN ACRES (INCLUDES EXCAVATION FOR PUSH BARGE)	151.57	13.55	25.33	190.45
TEMPORARY SPOIL IN CU. YDS. (INCLUDES SPOIL FOR PUSH BARGE)	1,090,646	104,537	164,081	1,459,264
TEMPORARY SPOIL IN ACRES (INCLUDES SPOIL FOR PUSH BARGE)	340.04	48.94	119.07	508.05
PROPOSED LIMESTONE FOR PROPOSED VALVE SITES IN CU. YDS.	139	-	278	417
PROPOSED LIMESTONE FOR PERMANENT ACCESS ROADS IN CU. YDS.	41	-	208	249
POTENTIAL BOARD MATS FOR TEMPORARY ACCESS DIRT ROADS IN CU. YDS.	19,113	-	15,277	34,390
POTENTIAL BOARD MATS FOR TEMPORARY ACCESS DIRT ROADS IN ACRES	11.85	-	9.47	21.32
POTENTIAL SAND FOR TEMPORARY ACCESS DIRT ROADS IN CU. YDS.	29,861	-	23,873	53,734
NEW LIMESTONE FOR TEMPORARY ACCESS LIMESTONE ROADS IN CU. YDS.	1,226	-	34,843	36,069**
POTENTIAL BOARD MATS FOR TEMPORARY PUSH SITES IN CU. YDS.	27,782	-	27,782	55,564
POTENTIAL BOARD MATS FOR TEMPORARY PUSH SITES IN ACRES	17.22	-	17.22	34.44
POTENTIAL SAND FOR TEMPORARY PUSH SITES IN CU. YDS.	27,782	-	27,782	55,564
POTENTIAL BOARD MATS FOR T.W.S. & EXTRA T.W.S. IN CU. YDS. (INCLUDES HDD & BORE SITES)	34,558	-	68,889	103,447
POTENTIAL BOARD MATS FOR T.W.S. & EXTRA T.W.S. IN ACRES (INCLUDES HDD & BORE SITES)	21.42	-	42.70	64.12
POTENTIAL SAND FOR T.W.S. & EXTRA T.W.S. IN CU. YDS. (INCLUDES HDD & BORE SITES)	34,558	-	68,889	103,447
PROPOSED SANDBAGS FOR FOREIGN PIPELINE CROSSINGS IN CU. YDS.	97	15	28	140
PROPOSED CRUSHED ROCK FOR BANK STABILIZATION IN CU. YDS.	3,420	-	180	3,600

UNITS ARE IN CUBIC YARDS & ACRES

NOTE:

** 36,069 TOTAL CU. YDS. OF NEW LIMESTONE MAY OR MAY NOT BE NEEDED FOR EXISTING LIMESTONE ROADS (SEE SHEET 38)

WETLAND IMPACTS

	PERMANENT R-O-W PALUSTRINE EMERGENT (PEM)	TEMPORARY R-O-W PALUSTRINE EMERGENT (PEM)	PERMANENT R-O-W PALUSTRINE SCRUB-SHRUB (PSS)	TEMPORARY R-O-W PALUSTRINE SCRUB-SHRUB (PSS)	OTHER WATERS (OW)	UPLANDS (U)
ST. JAMES	16.51	25.61	0.00	0.00	3.90	71.61
LAFOURCHE	86.03	203.98	21.78	62.11	58.59	142.18
TOTAL	102.54	229.59	21.78	62.11	62.49	213.79

UNITS ARE IN ACRES

TOTAL WORKSPACE	
ST. JAMES	156.21 AC.
LAFOURCHE	662.17 AC.
TOTAL	818.38 AC.

	PERMANENT R-O-W PALUSTRINE BOTTOMLAND HARDWOOD (PFO1)	TEMPORARY R-O-W PALUSTRINE BOTTOMLAND HARDWOOD (PFO1)	PERMANENT R-O-W PALUSTRINE BALD CYPRESS SWAMP (PFO2)	TEMPORARY R-O-W PALUSTRINE BALD CYPRESS SWAMP (PFO2)	PERMANENT R-O-W PALUSTRINE FARMED WILLOW (PFO1f)	TEMPORARY R-O-W PALUSTRINE FARMED WILLOW (PFO1f)
ST. JAMES	1.49	0.85	9.79	6.12	5.84	9.75
LAFOURCHE	0.83	2.91	2.29	8.35	2.35	17.36
TOTAL	2.32	3.76	12.08	14.47	2.35	23.20

UNITS ARE IN ACRES

FOR PERMITTING ONLY - THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE OR SALES.

GERARD M. LEGENDRE, P.L.S., LA. LAND SURVEYOR REG. NO. 4966

NO.	DATE	REV. BY:	REVISION
1	6/22/19	KDT	REVISED WETLAND IMPACTS
			REVISION



**CALCULATION CHART & WETLAND IMPACTS
PROPOSED 30" PIPELINE
ST. JAMES TO LOOP**



DRAWN BY: MPH	SHEET: 41
CHKD./APPD. BY: GML	SCALE: NONE
UPDATED BY:	DATE: 04/06/19
DATA BASE: 13111	JOB NO. 13111-00
MPH CAD FILE: 13111COE0041A1.DWG	

ACE PLAINS CONNECTION			
E.T.W.S.	SHEET NO.	SIZE	DESCRIPTION
130	2	50' X 191'	PROPOSED PUMP SITE 2
131	2	45' X 50'	PROPOSED PUMP SITE 2
132	2	52' X 152'	CONNECTION TO PL

E.T.W.S.	SHEET NO.	SIZE	DESCRIPTION
1	2	50' X 150'	EAST OF RAILROAD
2	2	50' X 210'	WEST OF RAILROAD
3	2	50' X 527'	BY ACCESS ROAD
4	2	50' X 1143'	MCB PLANTATION DITCH
5	2	100' X 619'	NORTH OF HWY. 3127
6	2	100' X 215'	SOUTH OF HWY. 3127
7	2	50' X 981'	CO-OP DITCH
8	3	50' X 526'	BY ACCESS ROAD
9	3	50' X 551'	ST. JAMES CANAL
10	3	50' X 528'	ST. JAMES CANAL
11	3	50' X 801'	PULL BOAT CANAL
12	3	50' X 546'	BY ACCESS ROAD
13	3	50' X 542'	BY ACCESS ROAD
14	3	50' X 703'	PIPELINE X-ING
15	3	50' X 615'	ST. JAMES CANAL
16	4	50' X 899'	ST. JAMES CANAL
17	4	50' X 250'	PIPELINE X-ING
18	4	250' X 1332'	PUSH SITE
19	4	50' X 250'	PIPELINE X-ING
20	4	50' X 498'	PIPELINE X-ING
21	4	50' X 642'	ST. JAMES CANAL
22	4	50' X 615'	PIPELINE X-ING
23	4	50' X 529'	DITCH & ROAD
24	5	50' X 608'	BAYOU CHEVERUIL
25	5	50' X 700'	PUSH SITE
26	5	50' X 700'	PUSH SITE
27	5	50' X 206'	NORTH OF HWY. 20
28	5	25' X 1007'	NORTH OF HWY. 20
29	5	50' X 200'	SOUTH OF HWY. 20
30	5	50' X 200'	SOUTH OF HWY. 20
31	5	50' X 250'	BY P/L CORRIDOR
32	5	50' X 243'	P/L CORRIDOR
33	5	250' X 600'	PUSH SITE
34	5	50' X 189'	P/L CORRIDOR
35	5	50' X 1188'	LEVEE & CANALS
36	6	50' X 500'	PIPELINE X-ING
37	6	50' X 500'	PIPELINE X-ING
38	6	50' X 608'	GRAND BAYOU
39	7	50' X 903'	LA PEANS CANAL
40	7	50' X 500'	PIPELINE X-ING
41	7	50' X 200'	NORTH OF LEVEE
42	7	50' X 200'	NORTH OF LEVEE
43	7	23' X 110'	NORTH OF CHOCTAW RD.

E.T.W.S.	SHEET NO.	SIZE	DESCRIPTION
44	7	53' X 135'	NORTH OF CHOCTAW RD.
45	7	65' X 143'	NORTH OF CHOCTAW RD.
46	7	76' X 212'	SOUTH OF CHOCTAW RD.
47	7	250' X 760'	PUSH SITE
48	7	50' X 500'	DITCH & ROAD
49	8	50' X 500'	DITCH
50	8	50' X 1001'	HALPIN CANAL
51	9	50' X 500'	DITCH
52	9	50' X 500'	BAYOU BOEUF
53	9	50' X 538'	SAMFORET CANAL
54	9	50' X 500'	PIPELINE X-ING
55	10	50' X 604'	THERIOT CANAL
56	10	50' X 766'	HALPIN CANAL
57	10	250' X 600'	PUSH SITE
58	10	50' X 200'	NORTH OF RAILROAD
59	10	100' X 250'	NORTH OF RAILROAD
60	10	50' X 200'	SOUTH OF RAILROAD
61	10	75' X 75'	SOUTH OF RAILROAD
62	11	50' X 1057'	BY ACCESS ROAD
63	11	50' X 174'	WEST OF RAILROAD
64	11	50' X 114'	EAST OF RAILROAD
65	11	50' X 200'	WEST OF HWY. 182
66	11	50' X 200'	WEST OF HWY. 182
67	11	50' X 200'	EAST OF HWY. 182
68	11	50' X 251'	EAST OF HWY. 182
69	11	60' X 983'	BACKSTRING
70	11	50' X 2061'	DITCHES
71	11	50' X 970'	PIPELINE X-ING
72	11	50' X 500'	PIPELINE X-ING
73	11	50' X 200'	WEST OF HWY. 90
74	11	50' X 200'	WEST OF HWY. 90
75	11	50' X 200'	EAST OF HWY. 90
76	11	50' X 200'	EAST OF HWY. 90
77	12	250' X 600'	PUSH SITE
78	12	50' X 377'	AMERADA HESS RD.
79	12	50' X 500'	PIPELINE X-ING
80	12	50' X 1061'	DITCHES
81	12	50' X 500'	PIPELINE X-ING
82	12	50' X 526'	DITCH & ROADS
83	12	50' X 500'	DITCH & ROAD
84	12	50' X 644'	WEST OF G.S. ROAD
85	12	50' X 500'	WEST OF G.S. ROAD
86	12	50' X 1897'	EAST OF G.S. ROAD

E.T.W.S.	SHEET NO.	SIZE	DESCRIPTION
87	12	50' X 306'	EAST OF G.S. ROAD
88	13	50' X 1370'	DITCHES
89	13	50' X 351'	SOUTH OF HWY. 654
90	13	250' X 600'	PUSH SITE
91	13	50' X 500'	PIPELINE X-ING
92	13	50' X 2208'	PIPELINE X-ING
93	13	250' X 600'	PUSH SITE
94	13	50' X 375'	COMPANY CANAL
95	14	50' X 1137'	PIPELINE X-ING
96	14	50' X 2852'	PONDS
97	15	50' X 500'	PIPELINE X-ING
98	16	50' X 639'	PETIT BOIS BAYOU
99	16	50' X 650'	PIPELINE X-ING
100	16	250' X 813'	PUSH SITE
101	16	50' X 200'	WEST OF POND
102	16	50' X 200'	WEST OF POND
103	16	50' X 200'	EAST OF POND
104	16	50' X 200'	EAST OF POND
105	16	300' X 1000'	PUSH BARGE
106	16	50' X 2042'	EAST OF GIWW
107	16	50' X 562'	EAST OF GIWW
108	16	84' X 1184'	EAST OF GIWW
109	17	50' X 812'	WEST OF DIXIE DELTA
110	17	50' X 819'	EAST OF DIXIE DELTA
111	18	50' X 1952'	WELL CANALS
112	18	50' X 1623'	PIPELINE X-ING
113	18	50' X 624'	PIPELINE X-ING
114	18	50' X 500'	POND
115	18	50' X 2127'	BAYOU PIERCE
116	19	50' X 869'	PIPELINE X-ING
117	19	250' X 600'	PUSH BARGE
118	19	250' X 600'	PUSH BARGE
119	19	50' X 250'	POND
120	19	50' X 838'	POND
121	19	50' X 1976'	BAYOU DE LA GAUCHE
122	19	50' X 691'	POND
123	19	50' X 500'	DITCH
124	20	50' X 1089'	DITCHES
125	20	50' X 3214'	WELL CANAL
126	21	50' X 1623'	PONDS
127	21	50' X 838'	WELL CANAL
128	21	50' X 1729'	WELL CANAL
129	21	564' X 2842'	WELL CANAL & VALVE SITE

FOR PERMITTING ONLY - THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE OR SALES.
GERARD M. LEGENDRE, P.L.S., LA. LAND SURVEYOR REG. NO. 4966

NO.	DATE	REV. BY:	REVISION
-----	------	----------	----------



EXTRA TEMPORARY WORKSPACE
PROPOSED 30" PIPELINE
ST. JAMES TO LOOP




DRAWN BY: MPH	SHEET: 42
CHKD./APPD. BY: GML	SCALE: NONE
UPDATED BY:	DATE: 02/28/19
DATA BASE: 13111	JOB NO. 13111-00
MPH CAD FILE: 13111COE0042A0.DWG	

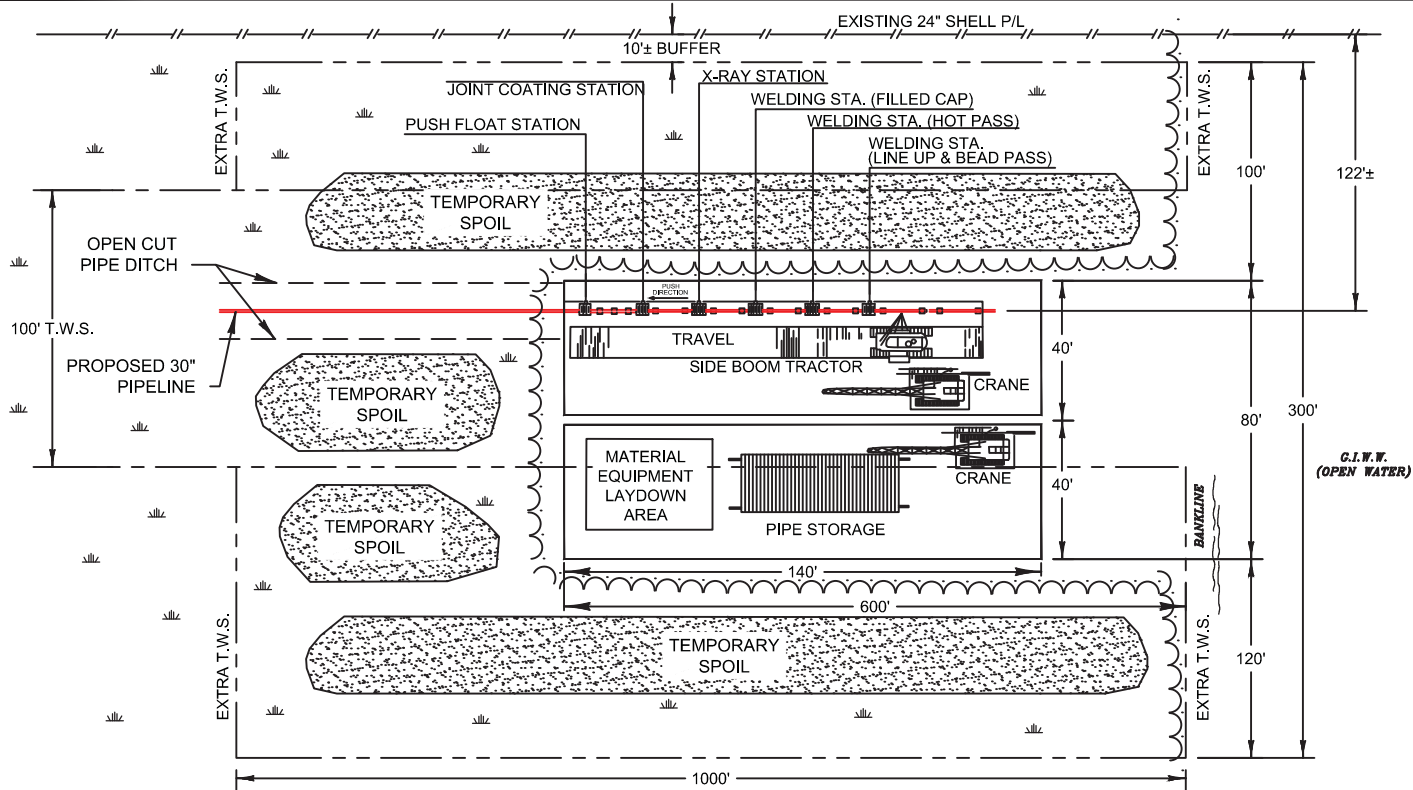
Station	Northing	Easting	Latitude	Longitude
0+00	547895.01	3430744.06	30°00' 20.72"	90°51' 34.92"
6+20	547656.78	3430171.22	30°00' 18.38"	90°51' 41.45"
11+14	547300.18	3429830.00	30°00' 14.87"	90°51' 45.35"
24+70	548179.40	3428797.50	30°00' 23.61"	90°51' 57.05"
85+79	545644.86	3423238.90	29°59' 58.74"	90°53' 00.39"
94+69	544982.39	3422644.49	29°59' 52.21"	90°53' 07.18"
114+33	543165.88	3423391.18	29°59' 34.20"	90°52' 58.76"
118+87	542757.00	3423588.84	29°59' 30.14"	90°52' 56.54"
153+62	540002.01	3425705.36	29°59' 02.79"	90°52' 32.59"
160+35	539436.21	3426071.29	29°58' 57.17"	90°52' 28.46"
162+11	539297.32	3426179.38	29°58' 55.79"	90°52' 27.23"
168+01	538937.36	3425712.88	29°58' 52.25"	90°52' 32.55"
184+07	537665.41	3426694.36	29°58' 39.62"	90°52' 21.45"
186+23	537488.81	3426818.28	29°58' 37.86"	90°52' 20.05"
188+39	537301.78	3426925.85	29°58' 36.01"	90°52' 18.84"
190+82	537092.04	3427047.82	29°58' 33.93"	90°52' 17.46"
193+24	536895.69	3427190.35	29°58' 31.98"	90°52' 15.85"
196+06	536676.67	3427366.75	29°58' 29.80"	90°52' 13.85"
200+11	536384.01	3427546.28	29°58' 26.89"	90°52' 10.69"
204+16	536142.47	3427971.01	29°58' 24.49"	90°52' 07.01"
234+82	534526.81	3430576.29	29°58' 08.39"	90°51' 37.46"
238+30	534365.23	3430884.79	29°58' 06.78"	90°51' 33.96"
241+79	534249.99	3431213.43	29°58' 05.62"	90°51' 30.23"
302+90	530825.49	3437112.22	29°57' 05.69"	90°50' 23.24"
308+76	532444.19	3437659.18	29°57' 47.48"	90°50' 17.03"
314+62	532134.70	3438155.52	29°57' 44.39"	90°50' 11.40"
321+45	531783.53	3438739.53	29°57' 40.89"	90°50' 04.78"
328+28	531573.22	3439387.73	29°57' 38.78"	90°49' 57.42"
365+07	530842.53	3442994.01	29°57' 31.39"	90°49' 16.46"
384+22	529340.31	3444181.78	29°57' 16.47"	90°49' 03.03"
386+22	529189.18	3444311.83	29°57' 14.96"	90°49' 01.56"
388+21	529049.36	3444453.99	29°57' 13.57"	90°48' 59.96"
394+55	528624.10	3444923.90	29°57' 09.34"	90°48' 54.64"
395+91	528530.20	3445021.94	29°57' 08.41"	90°48' 53.53"
397+27	528430.90	3445114.52	29°57' 07.42"	90°48' 52.48"
607+44	512658.79	3459006.07	29°54' 30.64"	90°46' 15.44"
633+51	510052.91	3459084.08	29°54' 04.84"	90°46' 14.70"
645+13	510060.16	3460246.34	29°54' 04.85"	90°46' 01.50"
791+31	498833.65	3469608.40	29°52' 13.25"	90°44' 15.79"
795+35	498515.42	3469856.35	29°52' 10.09"	90°44' 12.99"
799+38	498181.45	3470082.65	29°52' 06.77"	90°44' 10.44"
805+40	497672.27	3470403.56	29°52' 01.71"	90°44' 06.83"
814+04	496977.55	3470915.78	29°51' 54.81"	90°44' 01.05"
822+68	496364.69	3471523.57	29°51' 48.71"	90°43' 54.18"
828+23	496000.29	3471941.92	29°51' 45.08"	90°43' 49.45"
832+19	495730.56	3472231.96	29°51' 42.39"	90°43' 46.18"
836+15	495442.51	3472503.81	29°51' 39.53"	90°43' 43.11"
882+93	491937.89	3475601.90	29°51' 04.67"	90°43' 08.13"
886+72	491638.90	3475834.31	29°51' 01.70"	90°43' 05.51"
890+51	491313.02	3476027.19	29°50' 58.46"	90°43' 03.34"

Station	Northing	Easting	Latitude	Longitude
899+40	490520.81	3476430.89	29°50' 50.60"	90°42' 58.81"
909+34	489725.04	3477019.70	29°50' 42.69"	90°42' 52.17"
919+29	489164.23	3477835.44	29°50' 37.10"	90°42' 42.94"
924+90	488927.09	3478343.70	29°50' 34.72"	90°42' 37.18"
926+27	488802.49	3478285.57	29°50' 33.49"	90°42' 37.85"
933+34	488095.77	3478268.95	29°50' 26.50"	90°42' 38.08"
938+50	487581.64	3478317.78	29°50' 21.40"	90°42' 37.56"
1010+66	481649.05	3482424.53	29°49' 22.45"	90°41' 51.30"
1012+69	481486.31	3482545.52	29°49' 20.83"	90°41' 49.94"
1014+71	481332.12	3482677.23	29°49' 19.30"	90°41' 48.45"
1177+14	469345.47	3493637.77	29°47' 20.02"	90°39' 44.82"
1181+00	469068.84	3493907.58	29°47' 17.27"	90°39' 41.77"
1184+87	468810.15	3494194.63	29°47' 14.69"	90°39' 38.53"
1207+74	467334.65	3495941.95	29°46' 59.98"	90°39' 18.80"
1213+07	467028.26	3496378.20	29°46' 56.92"	90°39' 13.87"
1218+41	466803.92	3496861.80	29°46' 54.67"	90°39' 08.40"
1260+32	465385.17	3500804.81	29°46' 40.39"	90°38' 23.75"
1271+32	464833.54	3501749.14	29°46' 34.88"	90°38' 13.07"
1282+31	463980.07	3502433.00	29°46' 26.39"	90°38' 05.37"
1342+70	458658.46	3505286.61	29°45' 33.53"	90°37' 33.36"
1347+65	458243.15	3505555.62	29°45' 29.40"	90°37' 30.34"
1352+61	457877.70	3505889.24	29°45' 25.77"	90°37' 26.58"
1368+69	456783.38	3507067.86	29°45' 14.86"	90°37' 13.29"
1379+38	456129.31	3507911.98	29°45' 08.33"	90°37' 03.76"
1390+07	455635.24	3508858.68	29°45' 03.38"	90°36' 53.05"
1409+46	454894.66	3510650.65	29°44' 55.94"	90°36' 32.77"
1414+19	454426.01	3510709.82	29°44' 51.30"	90°36' 32.14"
1429+99	454185.88	3512271.55	29°44' 48.82"	90°36' 14.44"
1433+39	453849.73	3512219.86	29°44' 45.50"	90°36' 15.05"
1446+72	453647.17	3513537.20	29°44' 43.41"	90°36' 00.12"
1462+35	453529.27	3515095.66	29°44' 42.14"	90°35' 42.45"
1467+47	453530.01	3515607.70	29°44' 42.12"	90°35' 36.64"
1479+98	453584.22	3516857.85	29°44' 42.57"	90°35' 22.45"
1487+19	453618.90	3517577.97	29°44' 42.87"	90°35' 14.28"
1490+62	453602.54	3517920.38	29°44' 42.69"	90°35' 10.40"
1503+41	453882.44	3519168.50	29°44' 45.38"	90°34' 56.22"
1520+71	452549.20	3520271.11	29°44' 32.11"	90°34' 43.81"
1523+00	452527.67	3520498.55	29°44' 31.88"	90°34' 41.23"
1544+26	451089.29	3522064.83	29°44' 17.54"	90°34' 23.57"
1552+48	450468.28	3522603.41	29°44' 11.35"	90°34' 17.51"
1567+31	449279.04	3523489.54	29°43' 59.52"	90°34' 07.55"
1581+33	448171.63	3524349.77	29°43' 48.50"	90°33' 57.88"
1587+56	447699.34	3524754.98	29°43' 43.80"	90°33' 53.32"
1592+86	447331.48	3525137.30	29°43' 40.13"	90°33' 49.01"
1644+89	444039.62	3529166.78	29°43' 07.28"	90°33' 03.56"
1646+09	443961.64	3529257.52	29°43' 06.50"	90°33' 02.54"
1647+29	443879.24	3529344.26	29°43' 05.68"	90°33' 01.56"
1662+20	442825.52	3530399.46	29°42' 55.17"	90°32' 49.68"
1682+76	441221.15	3531684.63	29°42' 39.20"	90°32' 35.23"
1687+57	440851.97	3531993.40	29°42' 35.53"	90°32' 31.75"

Station	Northing	Easting	Latitude	Longitude
1731+12	437726.62	3535027.07	29°42' 04.38"	90°31' 57.60"
1751+82	435932.69	3536059.45	29°41' 46.55"	90°31' 46.04"
1765+94	434752.93	3536835.16	29°41' 34.82"	90°31' 37.33"
1776+55	433904.81	3537471.98	29°41' 26.38"	90°31' 30.18"
1810+04	431170.79	3539405.74	29°40' 59.18"	90°31' 08.48"
1810+69	431159.71	3539470.37	29°40' 59.06"	90°31' 07.75"
1842+71	428543.38	3541316.75	29°40' 33.03"	90°30' 47.03"
1854+05	427683.91	3542054.09	29°40' 24.47"	90°30' 38.74"
1865+40	426978.28	3542939.78	29°40' 17.42"	90°30' 28.75"
1984+35	420477.34	3552901.13	29°39' 12.34"	90°28' 36.39"
1986+25	420368.12	3553057.40	29°39' 11.25"	90°28' 34.63"
1988+16	420249.19	3553206.42	29°39' 10.06"	90°28' 32.95"
1990+02	420133.31	3553351.37	29°39' 08.91"	90°28' 31.31"
1991+87	420026.62	3553503.21	29°39' 07.84"	90°28' 29.60"
2095+74	414349.76	3562201.81	29°38' 10.99"	90°26' 51.51"
2095+85	414343.64	3562211.22	29°38' 10.92"	90°26' 51.41"
2095+97	414337.56	3562220.66	29°38' 10.86"	90°26' 51.30"
2367+98	399642.11	3585110.98	29°35' 43.57"	90°22' 33.31"
2371+88	399411.11	3585424.08	29°35' 41.25"	90°22' 29.79"
2375+77	399141.54	3585704.66	29°35' 38.56"	90°22' 26.63"
2379+81	398862.86	3585996.08	29°35' 35.78"	90°22' 23.36"
2383+84	398625.78	3586322.23	29°35' 33.40"	90°22' 19.69"
2411+52	397152.34	3588665.71	29°35' 18.62"	90°21' 53.29"
2416+46	396924.83	3589103.87	29°35' 16.33"	90°21' 48.34"
2421+41	396772.27	3589573.40	29°35' 14.78"	90°21' 43.04"
2622+62	392150.16	3609156.71	29°34' 27.33"	90°18' 01.71"
2643+47	391441.63	3611112.31	29°34' 20.14"	90°17' 39.64"
2664+31	390303.09	3612853.04	29°34' 08.72"	90°17' 20.05"
2689+98	388659.61	3614824.01	29°33' 52.27"	90°16' 57.90"
2728+25	385665.84	3617162.46	29°33' 22.42"	90°16' 31.73"
2766+53	381973.95	3618057.42	29°32' 45.79"	90°16' 21.98"
2919+33	366698.53	3618442.14	29°30' 14.54"	90°16' 19.23"
2930+19	365621.62	3618567.25	29°30' 03.87"	90°16' 17.93"
2941+04	364584.80	3618884.10	29°29' 53.58"	90°16' 14.45"
2959+16	362907.07	3619567.98	29°29' 36.90"	90°16' 06.89"
2959+60	362866.06	3619584.34	29°29' 36.50"	90°16' 06.71"
2960+04	362824.82	3619600.10	29°29' 36.09"	90°16' 06.53"
3010+98	358053.60	3621383.06	29°28' 48.69"	90°15' 46.86"
3020+59	357130.61	3621646.04	29°28' 39.53"	90°15' 43.99"
3030+19	356177.49	3621758.49	29°28' 30.08"	90°15' 42.81"
3038+29	355368.04	3621788.75	29°28' 22.07"	90°15' 42.56"
3050+45	355079.39	3622969.56	29°28' 19.10"	90°15' 29.23"
3055+97	355079.39	3623521.96	29°28' 19.05"	90°15' 22.98"
3058+88	355370.10	3623521.96	29°28' 21.93"	90°15' 22.95"
3066+43	355370.10	3624276.44	29°28' 21.86"	90°15' 14.41"
3067+61	355395.21	3624392.50	29°28' 22.10"	90°15' 13.10"
3069+83	355307.98	3624596.55	29°28' 21.21"	90°15' 10.80"
3070+23	355271.08	3624580.77	29°28' 20.85"	90°15' 10.98"
3074+16	355116.92	3624941.37	29°28' 19.29"	90°15' 06.92"

FOR PERMITTING ONLY - THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE OR SALES.
GERARD M. LEGENDRE, P.L.S., LA. LAND SURVEYOR REG. NO. 4966

NO.	DATE	REV. BY:	REVISION
			

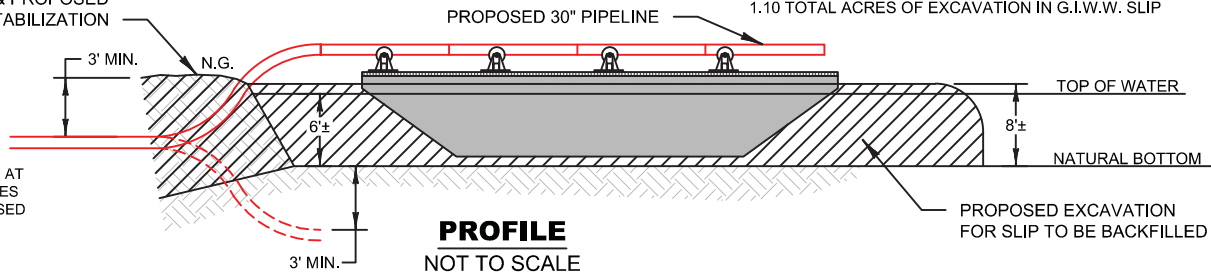


PLAN
NOT TO SCALE

DETAIL FOR:
STA. 2391+46 G.I.W.W. (SHEET 16 NORTH OF LAROSE, LA.)

14,223 TOTAL CU. YDS. OF EXCAVATION FOR G.I.W.W. SLIP
1.10 TOTAL ACRES OF EXCAVATION IN G.I.W.W. SLIP

PROPOSED PIPE DITCH TO BE
BACKFILLED & PROPOSED
BANK STABILIZATION



PROFILE
NOT TO SCALE

NOTE:
G.I.W.W. IS MAINTAINED BY
THE CORPS OF ENGINEERS AT
A DEPTH OF 12'. THE BARGES
AND TUGS THAT WILL BE USED
WILL DRAFT 6'.

NOTES:
THIS DRAWING WAS PREPARED FOR PERMIT PURPOSES ONLY, AND IS NOT A PROPERTY BOUNDARY SURVEY AND AS SUCH DOES NOT COMPLY WITH THE MOST RECENT
"STANDARDS OF PRACTICE FOR PROPERTY BOUNDARY SURVEYS" AS ADOPTED BY THE LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD.

AN ON-THE-GROUND EFFORT WAS MADE TO LOCATE AND INDICATE ALL BELOW GROUND FERROUS METAL CABLES, PIPELINES AND UTILITIES IN THE AREAS DESCRIBED ABOVE;
HOWEVER, DUE TO THE INHERENT LIMITATIONS OF ELECTRONIC MAGNETIC LOCATING EQUIPMENT, MORRIS P. HEBERT, INC. IS NOT RESPONSIBLE FOR ANY CABLES, PIPELINES,
UTILITIES OR ANY OTHER BELOW GROUND STRUCTURES (INCLUDING PVC) NOT LOCATED DURING THE COURSE OF THE SURVEY. MPH'S EFFORTS DO NOT RELIEVE THE LA ONE
CALL RESPONSIBILITY PRIOR TO MOBILIZATION OF EQUIPMENT AND OR EXCAVATION.

FOR PERMITTING ONLY - THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE OR SALES.
GERARD M. LEGENDRE, P.L.S., LA. LAND SURVEYOR REG. NO. 4966

NO.	DATE	REV. BY:

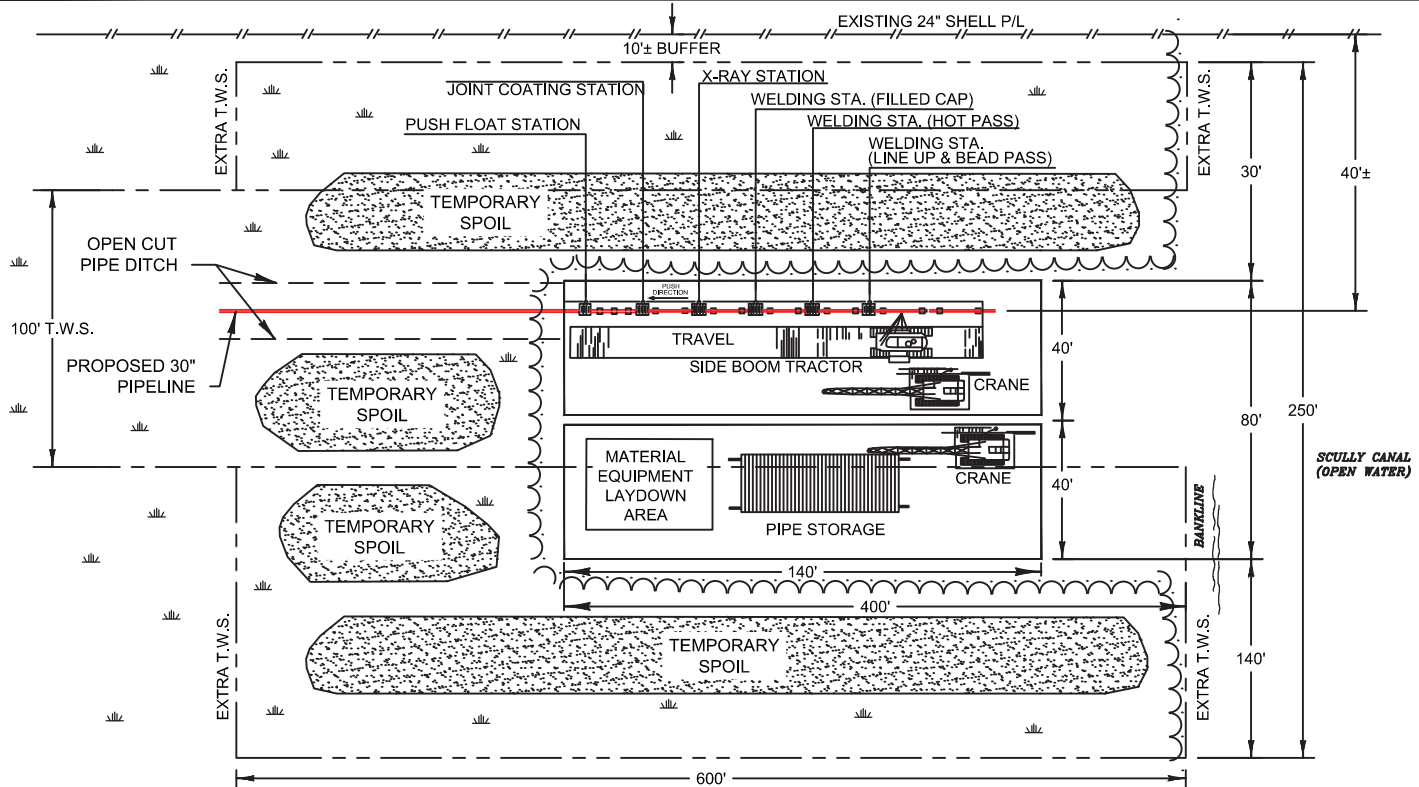
REVISION



**WATERWAY BARGE PUSH SITE DETAIL
FOR G.I.W.W.
PROPOSED 30" PIPELINE
ST. JAMES TO LOOP**



DRAWN BY: MPH	SHEET: 44
CHKD./APPD. BY: GML	SCALE: NONE
UPDATED BY:	DATE: 02/28/19
DATA BASE: 13111	JOB NO. 13111-00
MPH CAD FILE: 13111COE0044A0.DWG	

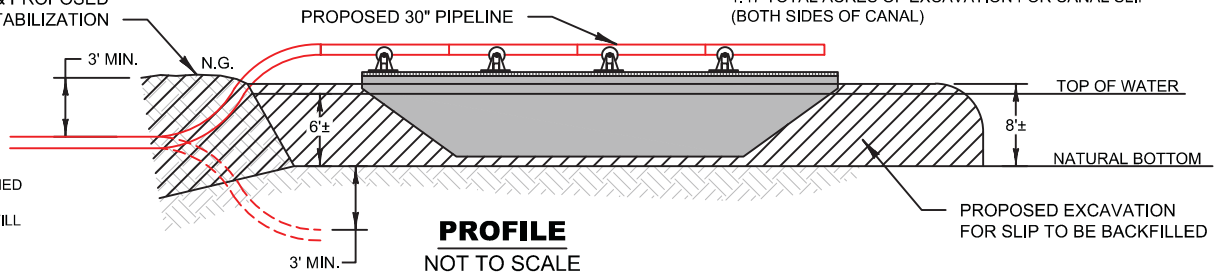


PLAN
NOT TO SCALE

DETAIL FOR:
STA. 2739+40 WELL CANAL (SHEET 19 EAST OF CUT OFF, LA.)

18,963 TOTAL CU. YDS. OF EXCAVATION FOR CANAL SLIP
1.47 TOTAL ACRES OF EXCAVATION FOR CANAL SLIP
(BOTH SIDES OF CANAL)

PROPOSED PIPE DITCH TO BE
BACKFILLED & PROPOSED
BANK STABILIZATION



PROFILE
NOT TO SCALE

NOTE:
SCULLY CANAL IS MAINTAINED
AT A DEPTH OF 8'. THE
BARGES AND TUGS THAT WILL
BE USED WILL DRAFT 6'.

NOTES:
THIS DRAWING WAS PREPARED FOR PERMIT PURPOSES ONLY, AND IS NOT A PROPERTY BOUNDARY SURVEY AND AS SUCH DOES NOT COMPLY WITH THE MOST RECENT
"STANDARDS OF PRACTICE FOR PROPERTY BOUNDARY SURVEYS" AS ADOPTED BY THE LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD.

AN ON-THE-GROUND EFFORT WAS MADE TO LOCATE AND INDICATE ALL BELOW GROUND FERROUS METAL CABLES, PIPELINES AND UTILITIES IN THE AREAS DESCRIBED ABOVE;
HOWEVER, DUE TO THE INHERENT LIMITATIONS OF ELECTRONIC MAGNETIC LOCATING EQUIPMENT, MORRIS P. HEBERT, INC. IS NOT RESPONSIBLE FOR ANY CABLES, PIPELINES,
UTILITIES OR ANY OTHER BELOW GROUND STRUCTURES (INCLUDING PVC) NOT LOCATED DURING THE COURSE OF THE SURVEY. MPH'S EFFORTS DO NOT RELIEVE THE LA ONE
CALL RESPONSIBILITY PRIOR TO MOBILIZATION OF EQUIPMENT AND OR EXCAVATION.

FOR PERMITTING ONLY - THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE OR SALES.
GERARD M. LEGENDRE, P.L.S., LA. LAND SURVEYOR REG. NO. 4966

NO.	DATE	REV. BY:	REVISION
-----	------	----------	----------

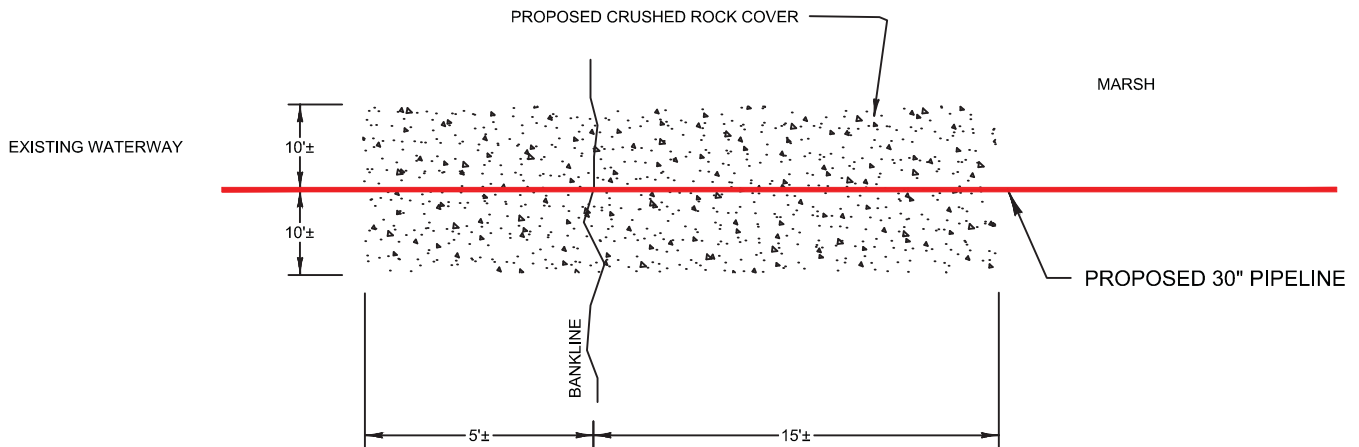


WATERWAY BARGE PUSH SITE DETAIL
FOR SCULLY CANAL (BOTH SIDES OF CANAL)
PROPOSED 30" PIPELINE
ST. JAMES TO LOOP



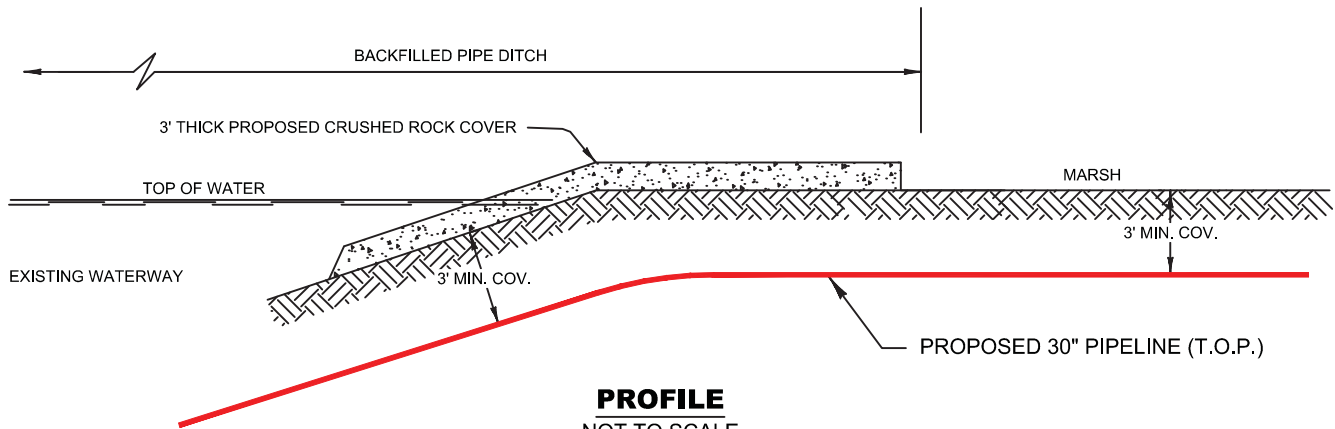
DRAWN BY:	MPH	SHEET:	45
CHKD./APPD. BY:	GML	SCALE:	NONE
UPDATED BY:		DATE:	02/28/19
DATA BASE:	13111	JOB NO.	13111-00
MPH CAD FILE: 13111COE0045A0.DWG			

P:\01-Survey_Projects\Phillips 66\13111 ACE\DWG\Permits\COE\13111COE0046A0.dwg PLOT DATE: 2/27/19 4:43:50pm



PLAN
NOT TO SCALE

APPROX. 45 CU. YDS. (EACH BANK) OF PROPOSED CRUSHED ROCK MATERIAL REQUIRED FOR EACH OF THE 40 WATERWAY CROSSINGS TO BE PLACED OVER BACKFILLED PIPE DITCH TO PROVIDE STABILIZATION ALONG DISTURBED BANKLINE. TOTAL PROPOSED CRUSHED ROCK MATERIAL NEEDED IS APPROX. 3,600 CU. YDS.



PROFILE
NOT TO SCALE

NOTES:

THIS DRAWING WAS PREPARED FOR PERMIT PURPOSES ONLY, AND IS NOT A PROPERTY BOUNDARY SURVEY AND AS SUCH DOES NOT COMPLY WITH THE MOST RECENT "STANDARDS OF PRACTICE FOR PROPERTY BOUNDARY SURVEYS" AS ADOPTED BY THE LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD.

AN ON-THE-GROUND EFFORT WAS MADE TO LOCATE AND INDICATE ALL BELOW GROUND FERROUS METAL CABLES, PIPELINES AND UTILITIES IN THE AREAS DESCRIBED ABOVE; HOWEVER, DUE TO THE INHERENT LIMITATIONS OF ELECTRONIC MAGNETIC LOCATING EQUIPMENT, MORRIS P. HEBERT, INC. IS NOT RESPONSIBLE FOR ANY CABLES, PIPELINES, UTILITIES OR ANY OTHER BELOW GROUND STRUCTURES (INCLUDING PVC) NOT LOCATED DURING THE COURSE OF THE SURVEY. MPH'S EFFORTS DO NOT RELIEVE THE LA ONE CALL RESPONSIBILITY PRIOR TO MOBILIZATION OF EQUIPMENT AND OR EXCAVATION.

FOR PERMITTING ONLY - THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE OR SALES.
GERARD M. LEGENDRE, P.L.S., LA. LAND SURVEYOR REG. NO. 4966

NO.	DATE	REV. BY:	REVISION
-----	------	----------	----------



TYPICAL BANK STABILIZATION
PROPOSED 30" PIPELINE
ST. JAMES TO LOOP



DRAWN BY:	MPH	SHEET:	46
CHKD./APPD. BY:	GML	SCALE:	NONE
UPDATED BY:		DATE:	02/28/19
DATA BASE:	13111	JOB NO.	13111-00
MPH CAD FILE: 13111COE0046A0.DWG			

FOREIGN PIPELINE CROSSING NOTES:

ACREAGE

APPROXIMATELY 0.002 ACRES OF NON-VEGETATED WATER BOTTOMS TO BE AFFECTED FOR EACH OF THE 56 FOREIGN PIPELINE CROSSINGS. A TOTAL OF 0.112 ACRES OF NON-VEGETATED WATER BOTTOMS TO BE AFFECTED.

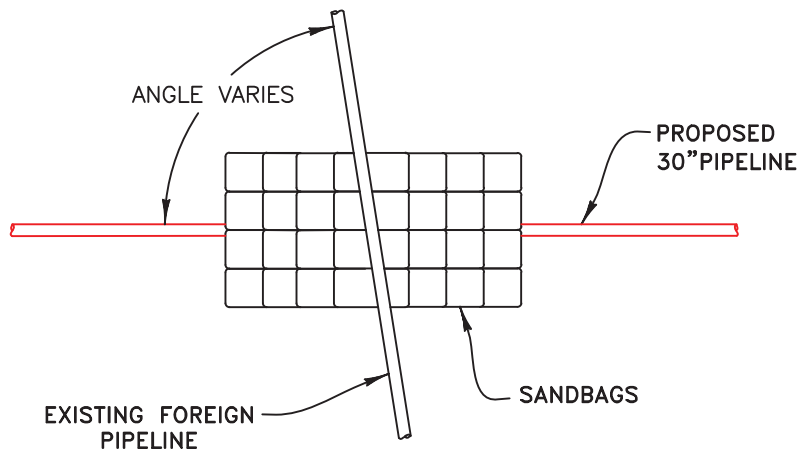
CUT

FOR EACH OF THE 56 FOREIGN PIPELINE CROSSINGS, APPROXIMATELY 5 CU. YDS. OF NON-VEGATED WATER BOTOTM MATERIAL TO BE DISPLACED BY DREDGING. TOTAL NON-VEGETATED WATER BOTTOM MATERIAL TO BE DISPLACED BY DREDGING IS APPROX. 280 CU. YDS.

FILL

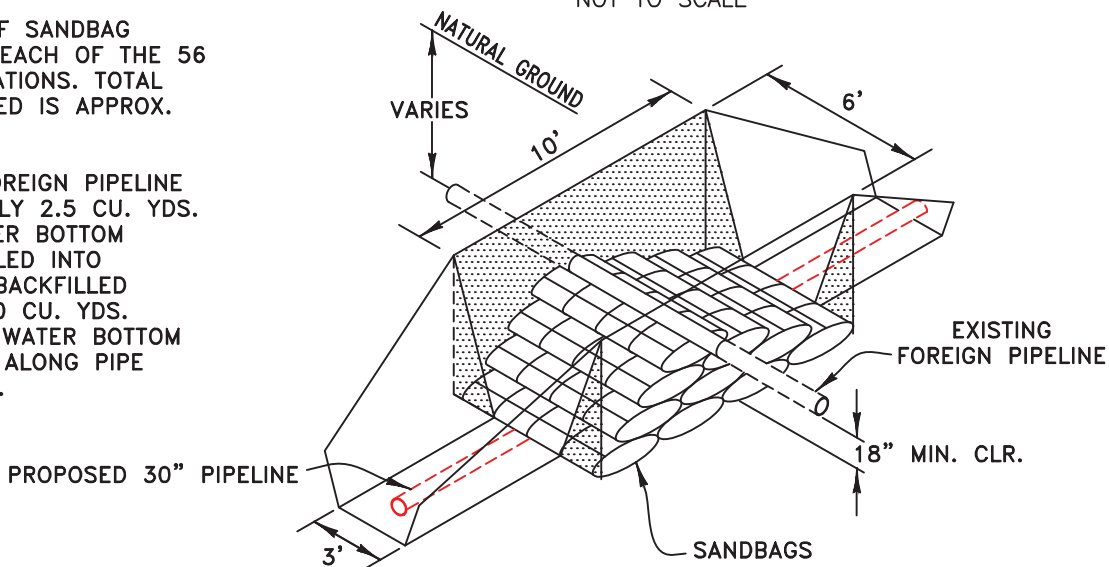
APPROX. 2.5 CU. YDS. OF SANDBAG MATERIAL REQUIRED FOR EACH OF THE 56 SANDBAG BRACE INSTALLATIONS. TOTAL SANDBAG MATERIAL NEEDED IS APPROX. 140 CU. YDS.

FOR EACH OF THE 56 FOREIGN PIPELINE CROSSINGS, APPROXIMATELY 2.5 CU. YDS. OF NON-VEGETATED WATER BOTTOM MATERIAL TO BE BACKFILLED INTO PIPELINE DITCH. TOTAL BACKFILLED MATERIAL IS APPROX. 140 CU. YDS. EXCESS NON-VEGETATED WATER BOTTOM MATERIAL TO BE SPREAD ALONG PIPE DITCH WHERE NECESSARY.



PLAN

NOT TO SCALE



PROFILE

NOT TO SCALE

NOTES:

THIS DRAWING WAS PREPARED FOR PERMIT PURPOSES ONLY, AND IS NOT A PROPERTY BOUNDARY SURVEY AND AS SUCH DOES NOT COMPLY WITH THE MOST RECENT "STANDARDS OF PRACTICE FOR PROPERTY BOUNDARY SURVEYS" AS ADOPTED BY THE LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD.

AN ON-THE-GROUND EFFORT WAS MADE TO LOCATE AND INDICATE ALL BELOW GROUND FERROUS METAL CABLES, PIPELINES AND UTILITIES IN THE AREAS DESCRIBED ABOVE; HOWEVER, DUE TO THE INHERENT LIMITATIONS OF ELECTRONIC MAGNETIC LOCATING EQUIPMENT, MORRIS P. HEBERT, INC. IS NOT RESPONSIBLE FOR ANY CABLES, PIPELINES, UTILITIES OR ANY OTHER BELOW GROUND STRUCTURES (INCLUDING PVC) NOT LOCATED DURING THE COURSE OF THE SURVEY. MPH'S EFFORTS DO NOT RELIEVE THE LA ONE CALL RESPONSIBILITY PRIOR TO MOBILIZATION OF EQUIPMENT AND OR EXCAVATION.

FOR PERMITTING ONLY - THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE OR SALES.
GERARD M. LEGENDRE, P.L.S., LA. LAND SURVEYOR REG. NO. 4966

NO.	DATE	REV. BY:

REVISION

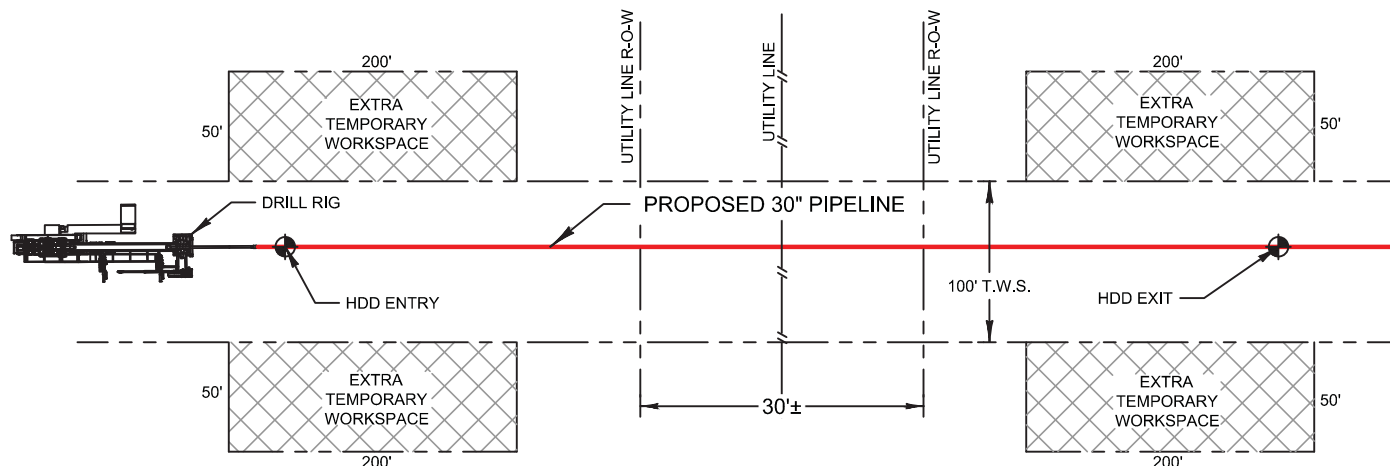


TYPICAL SANDBAG DETAIL
FOR FOREIGN PIPELINE CROSSINGS
PROPOSED 30" PIPELINE
ST. JAMES TO LOOP



DRAWN BY: MPH	SHEET: 47
CHKD./APPD. BY: GML	SCALE: NONE
UPDATED BY:	DATE: 02/28/19
DATA BASE: 13111	JOB NO. 13111-00
MPH CAD FILE: 13111COE0047A0.DWG	

P:\01-Survey_Projects\Phillips 66\13111 ACE\DWG\Permits\COE\13111COE0048A0.dwg PLOT DATE: 4/11/19 3:27:26pm



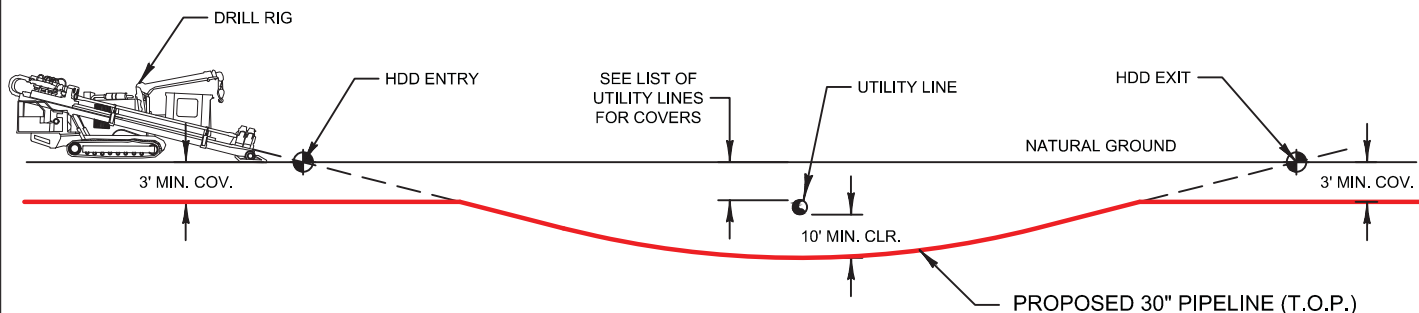
PLAN
NOT TO SCALE

DETAIL FOR:

STA. 241+02 12" ST. JAMES PARISH WATER (2.0' COV.)(SEE SHEET 3)
STA. 620+34 2" LAFOURCHE PARISH GAS (2.1' COV.)(SEE SHEET 5)
STA. 620+93 LAFOURCHE PARISH UTILITY (SIGNAL ONLY)(SEE SHEET 5)
STA. 1431+21 FIBER OPTIC LINE (SIGNAL ONLY)(SEE SHEET 10)
STA. 1517+67 UNITI FIBER OPTIC LINE (SIGNAL ONLY)(SEE SHEET 11)

NOTE:

EXTRA TEMPORARY WORKSPACE
PROVIDED FOR DRILL RIG & EQUIPMENT,
NOT FOR PROPOSED TEMPORARY SPOIL.



PROFILE
NOT TO SCALE

NOTES:

THIS DRAWING WAS PREPARED FOR PERMIT PURPOSES ONLY, AND IS NOT A PROPERTY BOUNDARY SURVEY AND AS SUCH DOES NOT COMPLY WITH THE MOST RECENT "STANDARDS OF PRACTICE FOR PROPERTY BOUNDARY SURVEYS" AS ADOPTED BY THE LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD.

AN ON-THE-GROUND EFFORT WAS MADE TO LOCATE AND INDICATE ALL BELOW GROUND FERROUS METAL CABLES, PIPELINES AND UTILITIES IN THE AREAS DESCRIBED ABOVE; HOWEVER, DUE TO THE INHERENT LIMITATIONS OF ELECTRONIC MAGNETIC LOCATING EQUIPMENT, MORRIS P. HEBERT, INC. IS NOT RESPONSIBLE FOR ANY CABLES, PIPELINES, UTILITIES OR ANY OTHER BELOW GROUND STRUCTURES (INCLUDING PVC) NOT LOCATED DURING THE COURSE OF THE SURVEY. MPH'S EFFORTS DO NOT RELIEVE THE LA ONE CALL RESPONSIBILITY PRIOR TO MOBILIZATION OF EQUIPMENT AND OR EXCAVATION.

FOR PERMITTING ONLY - THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE OR SALES.
GERARD M. LEGENDRE, P.L.S., LA. LAND SURVEYOR REG. NO. 4966

NO.	DATE	REV. BY:	REVISION
-----	------	----------	----------



TYPICAL UTILITY LINES
HORIZONTAL DIRECTIONAL DRILL DETAIL
PROPOSED 30" PIPELINE
ST. JAMES TO LOOP



DRAWN BY:	MPH	SHEET:	48
CHKD./APPD. BY:	GML	SCALE:	NONE
UPDATED BY:		DATE:	04/10/19
DATA BASE:	13111	JOB NO.	13111-00
MPH CAD FILE: 13111COE0048A0.DWG			

P:\01-Survey_Projects\Phillips 66\13111 ACE\DWG\Permits\COE\13111COE0049A0.dwg PLOT DATE: 2/27/19 4:51:04pm

LEGEND FOR PLAN VIEW

	CENTERLINE OF PROPOSED PIPELINE
	ACCESS ROUTE
	FOREIGN PIPELINE OR UTILITY LINE (AS LABELED)
	RIGHT OF WAY/ TEMPORARY WORKSPACE
	FENCE LINE
	CENTERLINE OF ROAD
	EXTRA TEMPORARY WORK SPACE
E.T.W.S.	EXTRA TEMPORARY WORK SPACE
STA.	STATION
P/L	PIPELINE
C/L	CENTERLINE
HWY.	HIGHWAY
R.R.	RAILROAD
SHT.	SHEET
P.I.	POINT OF INTERSECTION
P.T.	POINT OF TANGENCY
P.C.	POINT OF CURVATURE
	OWNERSHIP
HDD	HORIZONTAL DIRECTIONAL DRILL
NAT.	NATURAL
Δ	DELTA ANGLE
R	GENERAL SEGMENT CURVE RADIUS
L	LENGTH
C	GENERAL SEGMENT CURVE CHORD DIRECTION
LC	GENERAL SEGMENT CURVE CHORD LENGTH

LEGEND FOR DETAIL/TYPICALS

	CENTERLINE OF PROPOSED PIPELINE
	PERMANENT R-O-W
	FOREIGN PIPELINE OR UTILITY LINE (AS LABELED)
	TEMPORARY R-O-W/EXTRA TEMPORARY WORKSPACE
	FENCE LINE
	TREELINE
	CENTERLINE OF ROAD
	BORE & HDD ENTRY/EXIT
	VALVE
R-O-W	RIGHT OF WAY
STA.	STATION
P/L	PIPELINE
C/L	CENTERLINE
HWY.	HIGHWAY
MIN.	MINIMUM
COV.	COVER
N.G.	NATURAL GROUND
HDD	HORIZONTAL DIRECTIONAL DRILL
TEMP.	TEMPORARY
T.W.S	TEMPORARY WORK SPACE
PROP.	PROPOSED

FOR PERMITTING ONLY - THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE OR SALES.
GERARD M. LEGENDRE, P.L.S., LA. LAND SURVEYOR REG. NO. 4966

NO.	DATE	REV. BY:	REVISION
-----	------	----------	----------

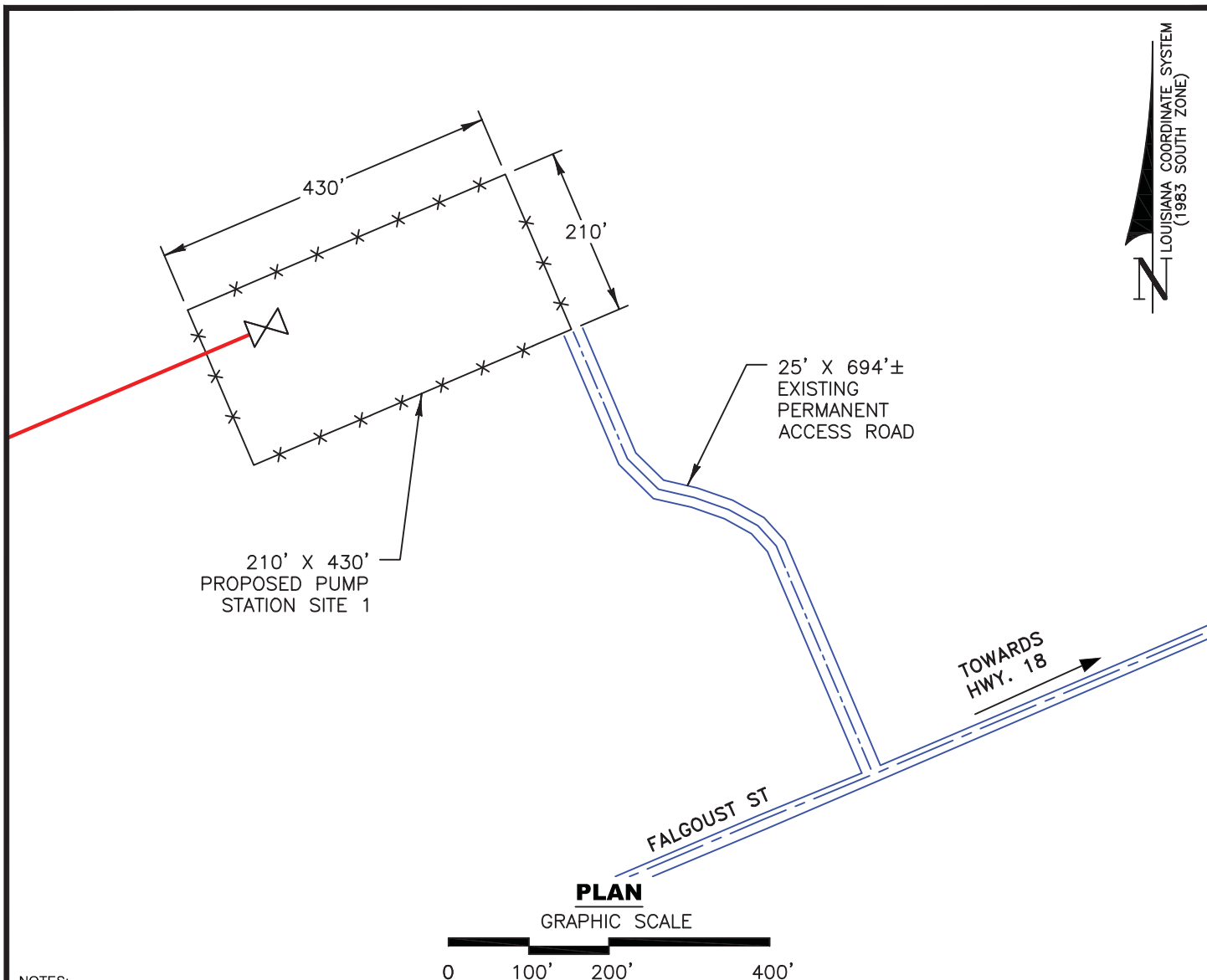


LEGEND
PROPOSED 30" PIPELINE
ST. JAMES TO LOOP



DRAWN BY:	MPH	SHEET:	49
CHKD./APPD. BY:	GML	SCALE:	NONE
UPDATED BY:		DATE:	02/28/19
DATA BASE:	13111	JOB NO.	13111-00
MPH CAD FILE: 13111COE0049A0.DWG			

P:\01-Survey_Projects\Phillips 66\13111 ACE\DWG\Permits\COE\13111COE0050A0.dwg PLOT DATE: 2/27/19 4:52:49pm



NOTES:

THIS DRAWING WAS PREPARED FOR PERMIT PURPOSES ONLY, AND IS NOT A PROPERTY BOUNDARY SURVEY AND AS SUCH DOES NOT COMPLY WITH THE MOST RECENT "STANDARDS OF PRACTICE FOR PROPERTY BOUNDARY SURVEYS" AS ADOPTED BY THE LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD.

AN ON-THE-GROUND EFFORT WAS MADE TO LOCATE AND INDICATE ALL BELOW GROUND FERROUS METAL CABLES, PIPELINES AND UTILITIES IN THE AREAS DESCRIBED ABOVE; HOWEVER, DUE TO THE INHERENT LIMITATIONS OF ELECTRONIC MAGNETIC LOCATING EQUIPMENT, MORRIS P. HEBERT, INC. IS NOT RESPONSIBLE FOR ANY CABLES, PIPELINES, UTILITIES OR ANY OTHER BELOW GROUND STRUCTURES (INCLUDING PVC) NOT LOCATED DURING THE COURSE OF THE SURVEY. MPH'S EFFORTS DO NOT RELIEVE THE LA ONE CALL RESPONSIBILITY PRIOR TO MOBILIZATION OF EQUIPMENT AND OR EXCAVATION.

FOR PERMITTING ONLY - THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE OR SALES.
GERARD M. LEGENDRE, P.L.S., LA. LAND SURVEYOR REG. NO. 4966

NO.	DATE	REV. BY:	REVISION

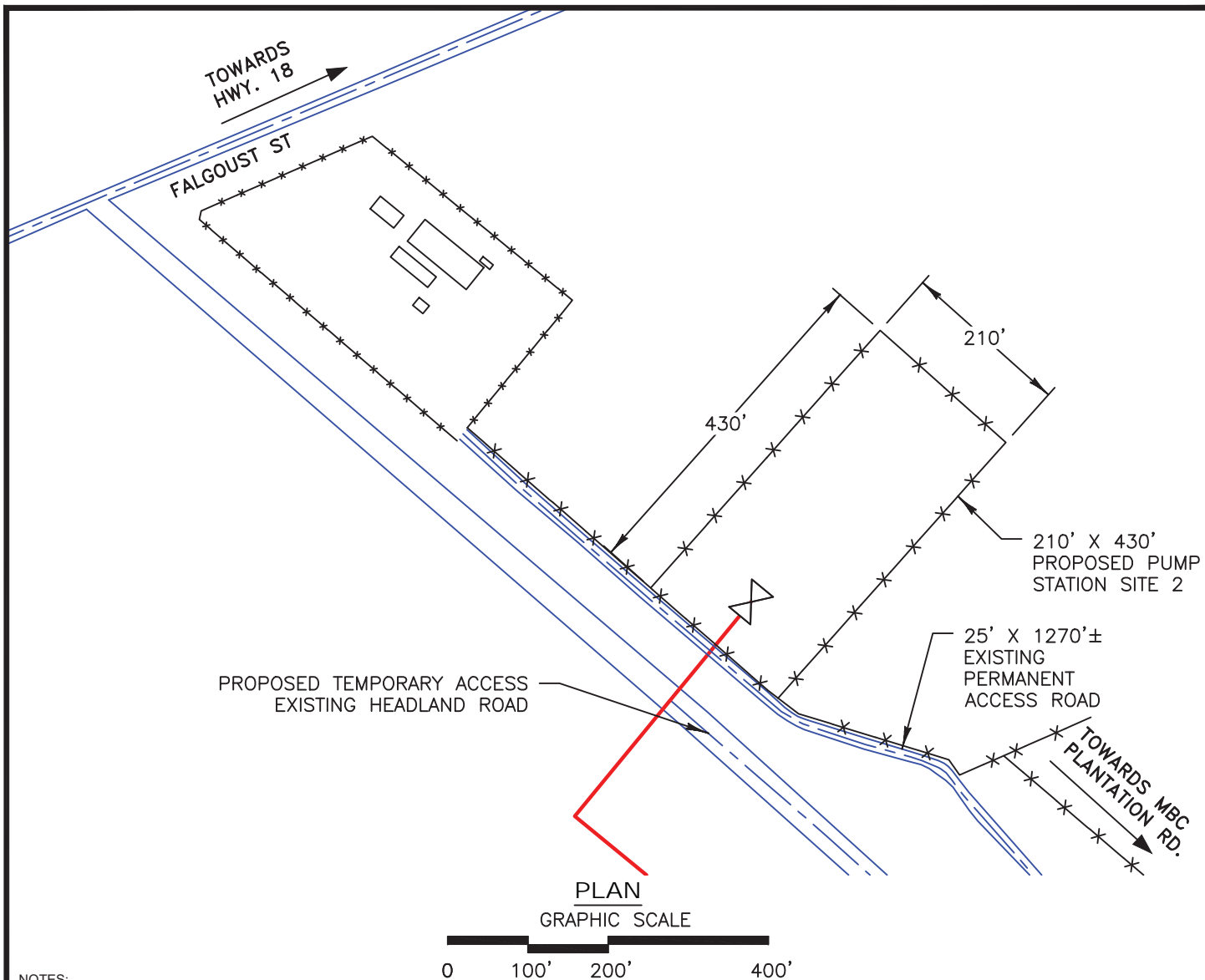


VALVE BV-1A
PERMANENT ACCESS ROAD DETAIL
PROPOSED 30" PIPELINE
ST. JAMES TO LOOP



DRAWN BY: MPH	SHEET: 50
CHKD./APPD. BY: GML	SCALE: 1"=200'
UPDATED BY:	DATE: 02/28/19
DATA BASE: 13111	JOB NO. 13111-00
MPH CAD FILE: 13111COE0050A0.DWG	

P:\01-Survey_Projects\Phillips 66\13111 ACE\DWG\Permits\COE\13111COE0051A0.dwg PLOT DATE: 3/5/19 8:56:16am



NOTES:

THIS DRAWING IS PREPARED FOR PERMIT PURPOSES ONLY, AND IS NOT A PROPERTY BOUNDARY SURVEY AND AS SUCH DOES NOT COMPLY WITH THE MOST RECENT "STANDARDS OF PRACTICE FOR PROPERTY BOUNDARY SURVEYS" AS ADOPTED BY THE LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD.

AN ON-THE-GROUND EFFORT WAS MADE TO LOCATE AND INDICATE ALL BELOW GROUND FERROUS METAL CABLES, PIPELINES AND UTILITIES IN THE AREAS DESCRIBED ABOVE. HOWEVER, DUE TO THE INHERENT LIMITATIONS OF ELECTRONIC MAGNETIC LOCATING EQUIPMENT, MORRIS P. HEBERT, INC. IS NOT RESPONSIBLE FOR ANY CABLES, PIPELINES, UTILITIES OR ANY OTHER BELOW GROUND STRUCTURES (INCLUDING PVC) NOT LOCATED DURING THE COURSE OF THE SURVEY. MPH'S EFFORTS DO NOT RELIEVE THE LANDOWNER OF CALL RESPONSIBILITY PRIOR TO MOBILIZATION OF EQUIPMENT AND OR EXCAVATION.

FOR PERMITTING ONLY - THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE OR SALES.
GERARD M. LEGENDRE, P.L.S., LA. LAND SURVEYOR REG. NO. 4966

NO.	DATE	REV. BY:	REVISION
-----	------	----------	----------

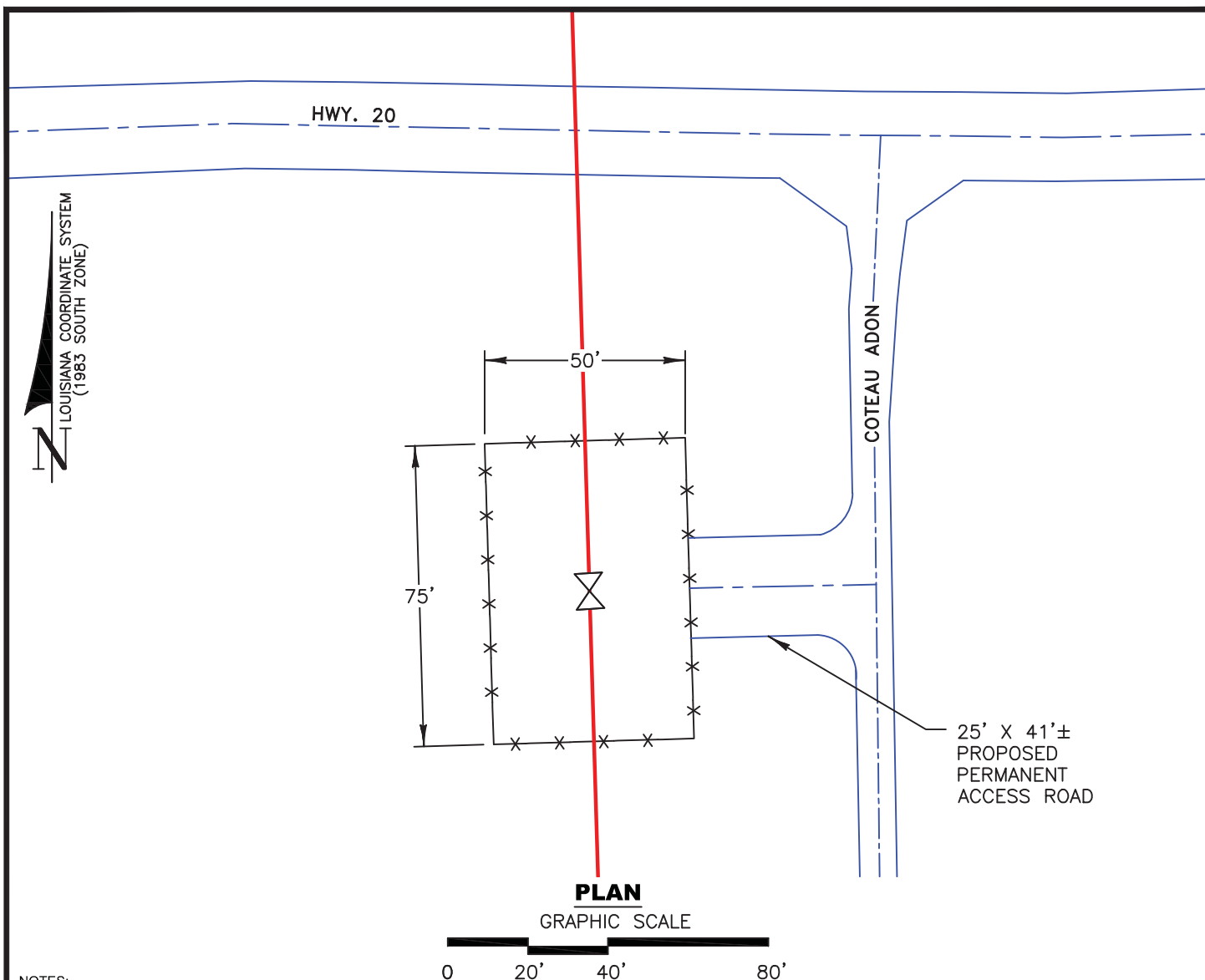


VALVE BV-1B
PERMANENT ACCESS ROAD DETAIL
PROPOSED 30" PIPELINE
ST. JAMES TO LOOP



DRAWN BY: MPH	SHEET: 51
CHKD./APPD. BY: GML	SCALE: 1"=200'
UPDATED BY:	DATE: 02/28/19
DATA BASE: 13111	JOB NO. 13111-00
MPH CAD FILE: 13111COE0051A0.DWG	

P:\01-Survey_Projects\Phillips 66\13111 ACE\DWG\Permits\COE\13111COE0052A0.dwg PLOT DATE: 2/28/19 7:09:19am



NOTES:

THIS DRAWING WAS PREPARED FOR PERMIT PURPOSES ONLY, AND IS NOT A PROPERTY BOUNDARY SURVEY AND AS SUCH DOES NOT COMPLY WITH THE MOST RECENT "STANDARDS OF PRACTICE FOR PROPERTY BOUNDARY SURVEYS" AS ADOPTED BY THE LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD.

AN ON-THE-GROUND EFFORT WAS MADE TO LOCATE AND INDICATE ALL BELOW GROUND FERROUS METAL CABLES, PIPELINES AND UTILITIES IN THE AREAS DESCRIBED ABOVE; HOWEVER, DUE TO THE INHERENT LIMITATIONS OF ELECTRONIC MAGNETIC LOCATING EQUIPMENT, MORRIS P. HEBERT, INC. IS NOT RESPONSIBLE FOR ANY CABLES, PIPELINES, UTILITIES OR ANY OTHER BELOW GROUND STRUCTURES (INCLUDING PVC) NOT LOCATED DURING THE COURSE OF THE SURVEY. MPH'S EFFORTS DO NOT RELIEVE THE LA ONE CALL RESPONSIBILITY PRIOR TO MOBILIZATION OF EQUIPMENT AND OR EXCAVATION.

FOR PERMITTING ONLY - THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE OR SALES.
GERARD M. LEGENDRE, P.L.S., LA. LAND SURVEYOR REG. NO. 4966

NO.	DATE	REV. BY:	REVISION
-----	------	----------	----------

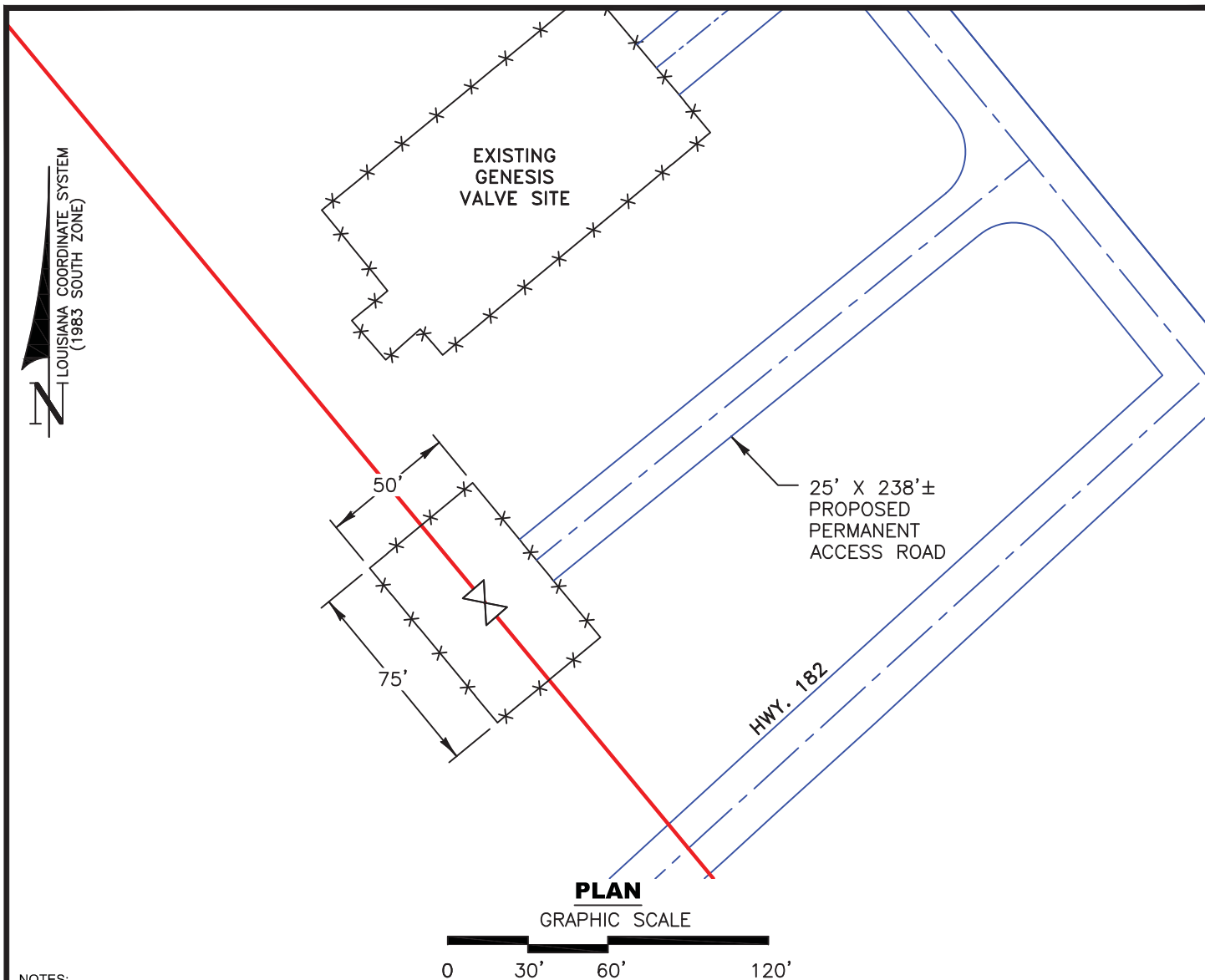


VALVE BV-2
PERMANENT ACCESS ROAD DETAIL
PROPOSED 30" PIPELINE
ST. JAMES TO LOOP



DRAWN BY:	MPH	SHEET:	52
CHKD./APPD. BY:	GML	SCALE:	1"=40'
UPDATED BY:		DATE:	02/28/19
DATA BASE:	13111	JOB NO.	13111-00
MPH CAD FILE: 13111COE0052A0.DWG			

P:\01-Survey_Projects\Phillips 66\13111 ACE\DWG\Permits\COE\13111COE0053A0.dwg PLOT DATE: 3/25/19 3:11:31pm



NOTES:

THIS DRAWING WAS PREPARED FOR PERMIT PURPOSES ONLY, AND IS NOT A PROPERTY BOUNDARY SURVEY AND AS SUCH DOES NOT COMPLY WITH THE MOST RECENT "STANDARDS OF PRACTICE FOR PROPERTY BOUNDARY SURVEYS" AS ADOPTED BY THE LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD.

AN ON-THE-GROUND EFFORT WAS MADE TO LOCATE AND INDICATE ALL BELOW GROUND FERROUS METAL CABLES, PIPELINES AND UTILITIES IN THE AREAS DESCRIBED ABOVE; HOWEVER, DUE TO THE INHERENT LIMITATIONS OF ELECTRONIC MAGNETIC LOCATING EQUIPMENT, MORRIS P. HEBERT, INC. IS NOT RESPONSIBLE FOR ANY CABLES, PIPELINES, UTILITIES OR ANY OTHER BELOW GROUND STRUCTURES (INCLUDING PVC) NOT LOCATED DURING THE COURSE OF THE SURVEY. MPH'S EFFORTS DO NOT RELIEVE THE LA ONE CALL RESPONSIBILITY PRIOR TO MOBILIZATION OF EQUIPMENT AND OR EXCAVATION.

FOR PERMITTING ONLY - THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE OR SALES.
GERARD M. LEGENDRE, P.L.S., LA. LAND SURVEYOR REG. NO. 4966

NO.	DATE	REV. BY:	REVISION
-----	------	----------	----------



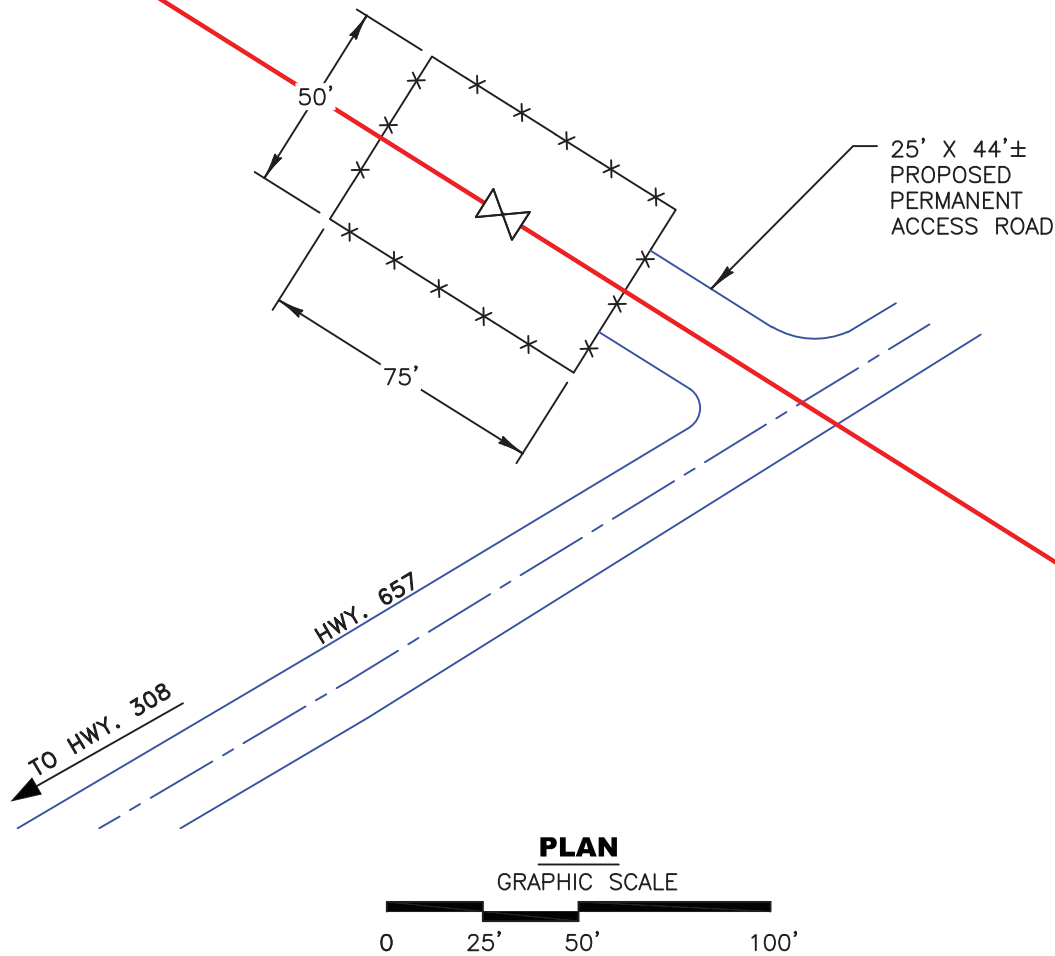
VALVE BV-3
PERMANENT ACCESS ROAD DETAIL
PROPOSED 30" PIPELINE
ST. JAMES TO LOOP



DRAWN BY:	MPH	SHEET:	53
CHKD./APPD. BY:	GML	SCALE:	1"=60'
UPDATED BY:		DATE:	03/25/19
DATA BASE:	13111	JOB NO.	13111-00
MPH CAD FILE: 13111COE0053A0.DWG			

P:\01-Survey_Projects\Phillips 66\13111 ACE\DWG\Permits\COE\13111COE0054A0.dwg PLOT DATE: 3/25/19 3:13:09pm

LOUISIANA COORDINATE SYSTEM
(1983 SOUTH ZONE)



NOTES:

THIS DRAWING WAS PREPARED FOR PERMIT PURPOSES ONLY, AND IS NOT A PROPERTY BOUNDARY SURVEY AND AS SUCH DOES NOT COMPLY WITH THE MOST RECENT "STANDARDS OF PRACTICE FOR PROPERTY BOUNDARY SURVEYS" AS ADOPTED BY THE LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD.

AN ON-THE-GROUND EFFORT WAS MADE TO LOCATE AND INDICATE ALL BELOW GROUND FERROUS METAL CABLES, PIPELINES AND UTILITIES IN THE AREAS DESCRIBED ABOVE; HOWEVER, DUE TO THE INHERENT LIMITATIONS OF ELECTRONIC MAGNETIC LOCATING EQUIPMENT, MORRIS P. HEBERT, INC. IS NOT RESPONSIBLE FOR ANY CABLES, PIPELINES, UTILITIES OR ANY OTHER BELOW GROUND STRUCTURES (INCLUDING PVC) NOT LOCATED DURING THE COURSE OF THE SURVEY. MPH'S EFFORTS DO NOT RELIEVE THE LA ONE CALL RESPONSIBILITY PRIOR TO MOBILIZATION OF EQUIPMENT AND OR EXCAVATION.

FOR PERMITTING ONLY - THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE OR SALES.
GERARD M. LEGENDRE, P.L.S., LA. LAND SURVEYOR REG. NO. 4966

NO.	DATE	REV. BY:

REVISION

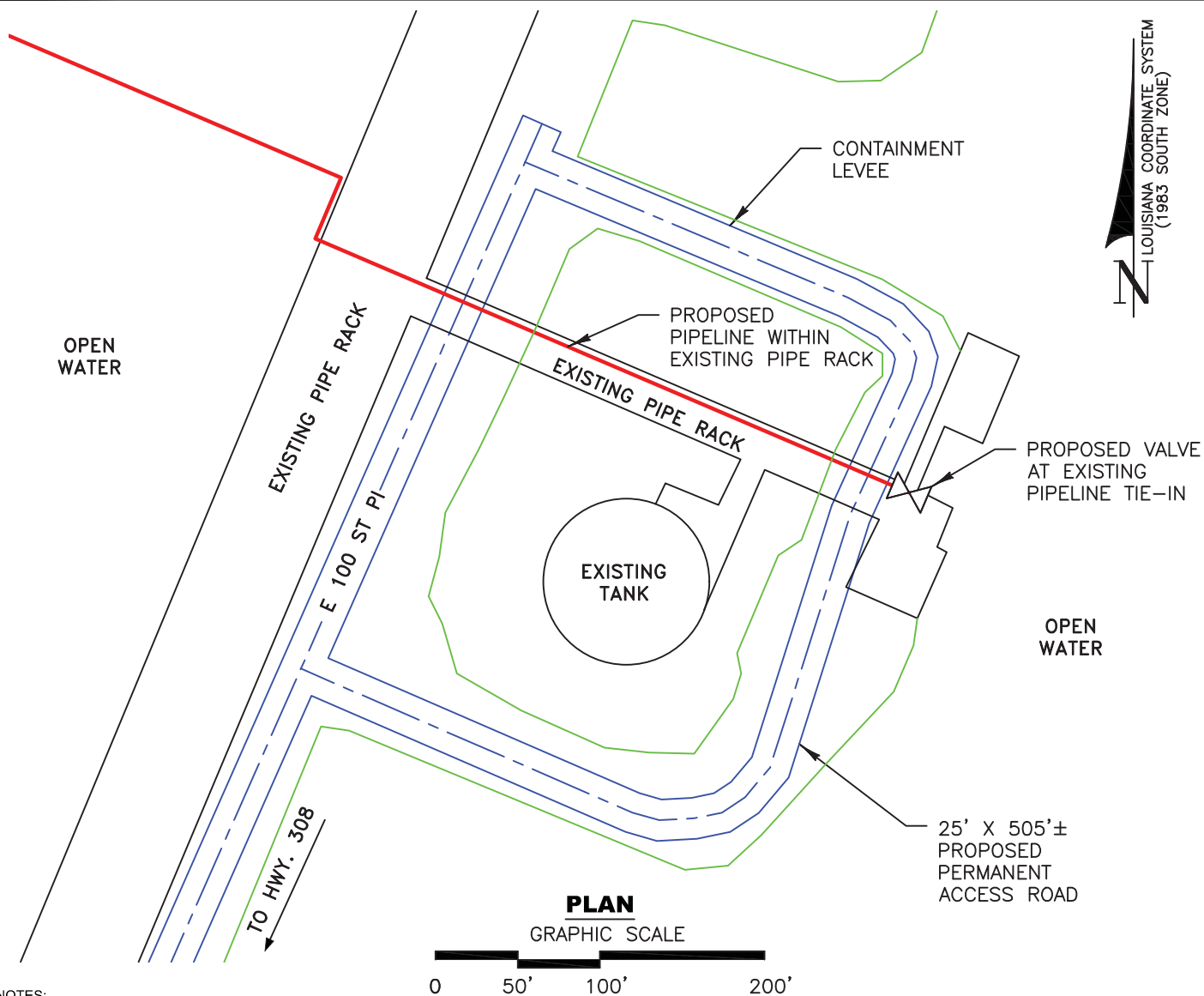
ACE
PIPELINE LLC

VALVE BV-5
PERMANENT ACCESS ROAD DETAIL
PROPOSED 30" PIPELINE
ST. JAMES TO LOOP

mph
Morris P. Hebert, Inc.
SURVEYING • ENGINEERING • ENVIRONMENTAL • GIS
P.O. BOX 3106 • 283 CORPORATE DRIVE • HOUMA, LOUISIANA 70361 • (985) 879-2731
HOUMA, LA. • HOUSTON, TX. • SAN ANTONIO, TX. • MIDLAND, TX.
TEXAS SURVEY FIRM REGISTRATION NUMBER: 10193786 (HOUMA OFFICE)

DRAWN BY: MPH	SHEET: 54
CHKD./APPD. BY: GML	SCALE: 1"=50'
UPDATED BY:	DATE: 03/25/19
DATA BASE: 13111	JOB NO. 13111-00
MPH CAD FILE: 13111COE0054A0.DWG	

P:\01-Survey_Projects\Phillips 66\13111 ACE\DWG\Permits\COE\13111COE0055A0.dwg PLOT DATE: 3/6/19 2:09:53pm



NOTES:

THIS DRAWING WAS PREPARED FOR PERMIT PURPOSES ONLY, AND IS NOT A PROPERTY BOUNDARY SURVEY AND AS SUCH DOES NOT COMPLY WITH THE MOST RECENT "STANDARDS OF PRACTICE FOR PROPERTY BOUNDARY SURVEYS" AS ADOPTED BY THE LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD.

AN ON-THE-GROUND EFFORT WAS MADE TO LOCATE AND INDICATE ALL BELOW GROUND FERROUS METAL CABLES, PIPELINES AND UTILITIES IN THE AREAS DESCRIBED ABOVE; HOWEVER, DUE TO THE INHERENT LIMITATIONS OF ELECTRONIC MAGNETIC LOCATING EQUIPMENT, MORRIS P. HEBERT, INC. IS NOT RESPONSIBLE FOR ANY CABLES, PIPELINES, UTILITIES OR ANY OTHER BELOW GROUND STRUCTURES (INCLUDING PVC) NOT LOCATED DURING THE COURSE OF THE SURVEY. MPH'S EFFORTS DO NOT RELIEVE THE LA ONE CALL RESPONSIBILITY PRIOR TO MOBILIZATION OF EQUIPMENT AND OR EXCAVATION.

FOR PERMITTING ONLY - THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE OR SALES.
GERARD M. LEGENDRE, P.L.S., LA. LAND SURVEYOR REG. NO. 4966

NO.	DATE	REV. BY:	REVISION
-----	------	----------	----------



VALVE BV-6
PERMANENT ACCESS ROAD DETAIL
PROPOSED 30" PIPELINE
ST. JAMES TO LOOP



DRAWN BY:	MPH	SHEET:	55
CHKD./APPD. BY:	GML	SCALE:	1"=100'
UPDATED BY:		DATE:	02/28/19
DATA BASE:	13111	JOB NO.	13111-00
MPH CAD FILE: 13111COE0055A0.DWG			

Station	Northing	Easting	Latitude	Longitude
0+00	546439.45	3431376.2	N30°00' 06.28"	W90°51' 27.80"
1+85	546296.9	3431259.04	N30°00' 04.88"	W90°51' 29.14"
3+46	546172.24	3431156.58	N30°00' 03.65"	W90°51' 30.31"
12+54	545595.75	3431858	N29°59' 57.91"	W90°51' 22.36"
13+71	545479.66	3431841.6	N29°59' 56.76"	W90°51' 22.55"
98+28	542257.32	3424023.13	N29°59' 25.18"	W90°52' 51.62"
98+68	542232.97	3423991.43	N29°59' 24.94"	W90°52' 51.98"

FOR PERMITTING ONLY - THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE OR SALES.
GERARD M. LEGENDRE, P.L.S., LA. LAND SURVEYOR REG. NO. 4966

NO.	DATE	REV. BY:	REVISION
-----	------	----------	----------



COORDINATE SHEET
PROPOSED 30" PIPELINE
ACE PLAINS CONNECTION
ST. JAMES PARISH, LOUISIANA
STA 0+00 TO STA 98+67



DRAWN BY: MPH	SHEET: 56
CHKD./APPD. BY: GML	SCALE: NONE
UPDATED BY:	DATE: 2/28/19
DATA BASE: 13111	JOB NO. 13111-00
MPH CAD FILE: 13111COE0056A0.DWG	

GENERAL NOTES:

1. ACE PIPELINE SHALL COMPLY WITH ALL APPLICABLE STATE LAWS REGARDING THE NEED TO CONTACT THE LOUISIANA 1 CALL SYSTEM (1-800-272-3020) TO LOCATE ANY BURIED CABLES & PIPELINES.
2. AN ON-THE-GROUND EFFORT WILL BE MADE TO LOCATE AND INDICATE ALL BELOW GROUND FERROUS METAL CABLES, PIPELINES AND UTILITIES IN THE AREAS DESCRIBED ABOVE; HOWEVER, DUE TO THE INHERENT LIMITATIONS OF ELECTRONIC MAGNETIC LOCATING EQUIPMENT, MORRIS P. HEBERT, INC. IS NOT RESPONSIBLE FOR ANY CABLES, PIPELINES, UTILITIES OR ANY OTHER BELOW GROUND STRUCTURES (INCLUDING PVC) NOT LOCATED DURING THE COURSE OF THE SURVEY. MPH'S EFFORTS DO NOT RELIEVE THE LA ONE CALL RESPONSIBILITY PRIOR TO MOBILIZATION OF EQUIPMENT AND OR EXCAVATION.
3. THIS PLAT WAS PREPARED FOR PERMITTING PURPOSES ONLY, AND IS NOT A PROPERTY BOUNDARY SURVEY AND AS SUCH DOES NOT COMPLY WITH THE MOST RECENT "STANDARDS OF PRACTICE FOR PROPERTY BOUNDARY SURVEYS" AS ADOPTED BY THE LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD.
4. THESE DRAWINGS ARE TO BE USED EXCLUSIVELY FOR THE ACQUISITION OF REGULATORY PERMITS.

CZM NOTES:

1. ALL STRUCTURES, FACILITIES, WELL, AND PIPELINES/FLOWLINES OCCURRING IN OPEN WATER AREAS OR IN OILFIELD CANALS OR SLIPS SHALL BE REMOVED WITHIN 120 DAYS OF ABANDONMENT 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 REMOVAL ACTIVITIES.
2. AS-BUILT DRAWINGS SHALL BE SUBMITTED WITHIN 30 DAYS OF COMPLETION OF THIS PROJECT TO THE LOUISIANA DEPARTMENT OF NATURAL RESOURCES, COASTAL MANAGEMENT DIVISION, P.O. BOX 44487, BATON ROUGE, LA. 70804-4487.
3. STRUCTURES WILL BE MARKED/LIGHTED IN ACCORDANCE WITH U.S. COAST GUARD REGULATIONS.
4. IN ORDER TO ENSURE THE SAFETY OF ALL PARTIES, THE PERMITTEE SHALL CONTACT THE LOUISIANA ONE-CALL SYSTEM (1-800-272-3020) A MINIMUM OF 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY EXCAVATION (DIGGING, DREDGING, JETTING, ETC.) OR DEMOLITION ACTIVITY.

FOR PERMITTING ONLY - THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE OR SALES.
GERARD M. LEGENDRE, P.L.S., LA. LAND SURVEYOR REG. NO. 4966

NO.	DATE	REV. BY:
-----	------	----------

REVISION



GENERAL NOTES & CZM NOTES
PROPOSED 30" PIPELINE
ST. JAMES TO LOOP



DRAWN BY: MPH	SHEET: 57
CHKD./APPD. BY: GML	SCALE: NONE
UPDATED BY:	DATE: 02/28/19
DATA BASE: 13111	JOB NO. 13111-00
MPH CAD FILE: 13111COE0057A0.DWG	