

# JOINT PUBLIC NOTICE

October 10, 2016

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

State of Louisiana  
Department of Environmental Quality  
Water Quality Certification Section  
Post Office Box 4313  
Baton Rouge, Louisiana 70821-4313

(504) 862-2675  
Project Manager  
Jamie Crowe  
Jamie.M.Crowe@usace.army.mil  
Permit Application Number  
MVN 2014-00680 CO

(225) 219-3225  
Project Manager  
Elizabeth Hill  
WQC Application Number  
WQC 160929-02

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 LRS30:2047 A(3), and provisions of Section 401 of the Clean Water Act (P.L.95-17).

## **18-INCH PIPELINE IN ASSUMPTION, LAFOURCHE, AND ST. JAMES PARISHES**

**NAME OF APPLICANT:** Texas Brine Company, LLC, c/o Joel Miller, 601 Main Street, Franklin, Louisiana 70538.

**LOCATION OF WORK:** Within the Terrebonne and Barataria Basins, in the West Central Louisiana Coastal hydrologic unit (HUC 08090302) and the East Central Louisiana Basin hydrologic unit (HUC 08090301), beginning at 29.825°N, 90.91344°W, crossing Bayou Lafourche, Bayou Petit Chackbay, Bayou Verret, Bayou Citamon and terminating at 29.99687°N, 90.887203°W, in Assumption, Lafourche, and St. James Parishes, as shown on the enclosed drawings.

**CHARACTER OF WORK:** The applicant has requested authorization to replace 64,548 linear feet of 14-inch brine pipeline with an 18-inch pipeline. The proposed pipeline will be installed parallel to the existing 14-inch pipeline, which will be removed after the 18-inch pipeline is operational. Horizontal directional drill (HDD) will be utilized to install the proposed pipeline beneath existing roads, pipelines, and waterways, including Bayou Lafourche, Bayou Verret, and Bayou Citamon. The remaining length

will be installed via open cut trench. All work will take place within a 55-foot temporary right-of-way. A 10-foot permanent right-of way will be maintained.

The applicant has minimized the proposed impacts by expanding existing pipeline rights-of-way, utilizing HDD methods for water crossings, and reducing the right-of-way width as much as practicable without compromising safety. Best management practices will be implemented during construction to minimize impacts to adjacent wetlands. As a result of pipeline installation, approximately 4.5 acres of bottomland hardwood forests and 19.4 acres of cypress-tupelo forests, 39.1 acres of emergent wetlands, 0.4 acre of navigable waters, and 0.3 acre of waters of the US will be impacted by the proposed activity. As compensation for unavoidable wetland impacts the applicant proposes to purchase wetland credits from a Corps approved mitigation bank located in the watershed.

The comment period for the Department of the Army Permit and the Louisiana Department of Environmental Quality WQC will close **20 days** from the date of this joint public notice. Written comments, including suggestions for modifications or objections to the proposed work, stating reasons thereof, are being solicited from anyone having interest in this permit and/or this WQC request and must be mailed, so as to be received before or by the last day of the comment period. Letters concerning the Corps of Engineers permit application must reference the applicant's name and the Permit Application Number, and be mailed to the Corps of Engineers at the address above, **ATTENTION: REGULATORY BRANCH**. The application for this proposed project is on file with the Louisiana Department of Environmental Quality and may be examined weekdays between 8:00 a.m. and 4:30 p.m. Copies may be obtained upon payment of costs of reproduction. Individuals or parties may request an extension of time in which to comment on the proposed work by writing or e-mailing the Corps of Engineers Project Manager listed above. Any request must be specific and substantively supportive of the requested extension, and received by this office prior to the end of the initial comment period. The Section Chief will review the request and the requestor will be promptly notified of the decision to grant or deny the request. If granted, the time extension will be continuous to the initial comment period and, inclusive of the initial comment period, will not exceed a total of 30 calendar days. Letters concerning the 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.

### **Corps of Engineers Permit Criteria**

The decision whether to issue a permit will be based on an evaluation of the probable impacts, including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics,

general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership and, in general, the needs and welfare of the people.

The U.S. Army Corps of Engineers is soliciting comments from the public, federal, state, and local agencies and officials, Indian Tribes, and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the U.S. Army Corps of Engineers to determine whether to make, modify, condition, or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

The New Orleans District is unaware of properties listed on the National Register of Historic Places near the proposed work. The possibility exists that the proposed work may damage or destroy presently unknown archeological, scientific, prehistorical, historical sites, or data. Copies of this notice are being sent to the State Archeologist and State Historic Preservation Officer.

Our initial finding is that the proposed work would not affect any species, nor affect any habitat designated as critical to the survival and recovery of such species, listed as endangered by the U.S. Department of Commerce.

The New Orleans District has determined that the proposed project is located in waters known to be utilized by the west Indian manatee (*Trichechus manatus*) and determined that the proposed activity is not likely to adversely affect the species based on the Standard Local Operating Procedure for Endangered Species of Louisiana (SLOPES), dated October 22, 2014, between the U.S. Army Corps of Engineers and U.S. Fish and Wildlife Service, Ecological Services Office.

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 **N/A acres** of EFH utilized by various life stages of red drum and penaeid shrimp. Our initial determination is that the proposed action would not have a substantial adverse impact on EFH or federally managed fisheries in the Gulf of Mexico. Our final determination relative to project impacts and the need for mitigation measures is subject to review by and coordination with the National Marine Fisheries Service.

If the proposed work involves deposits of dredged or fill material into navigable waters, the evaluation of the probable impacts will include the application of guidelines established by the Administrator of the Environmental Protection Agency. Also, a

certification that the proposed activity will not violate applicable water quality standards will be required from the 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. 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.

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.

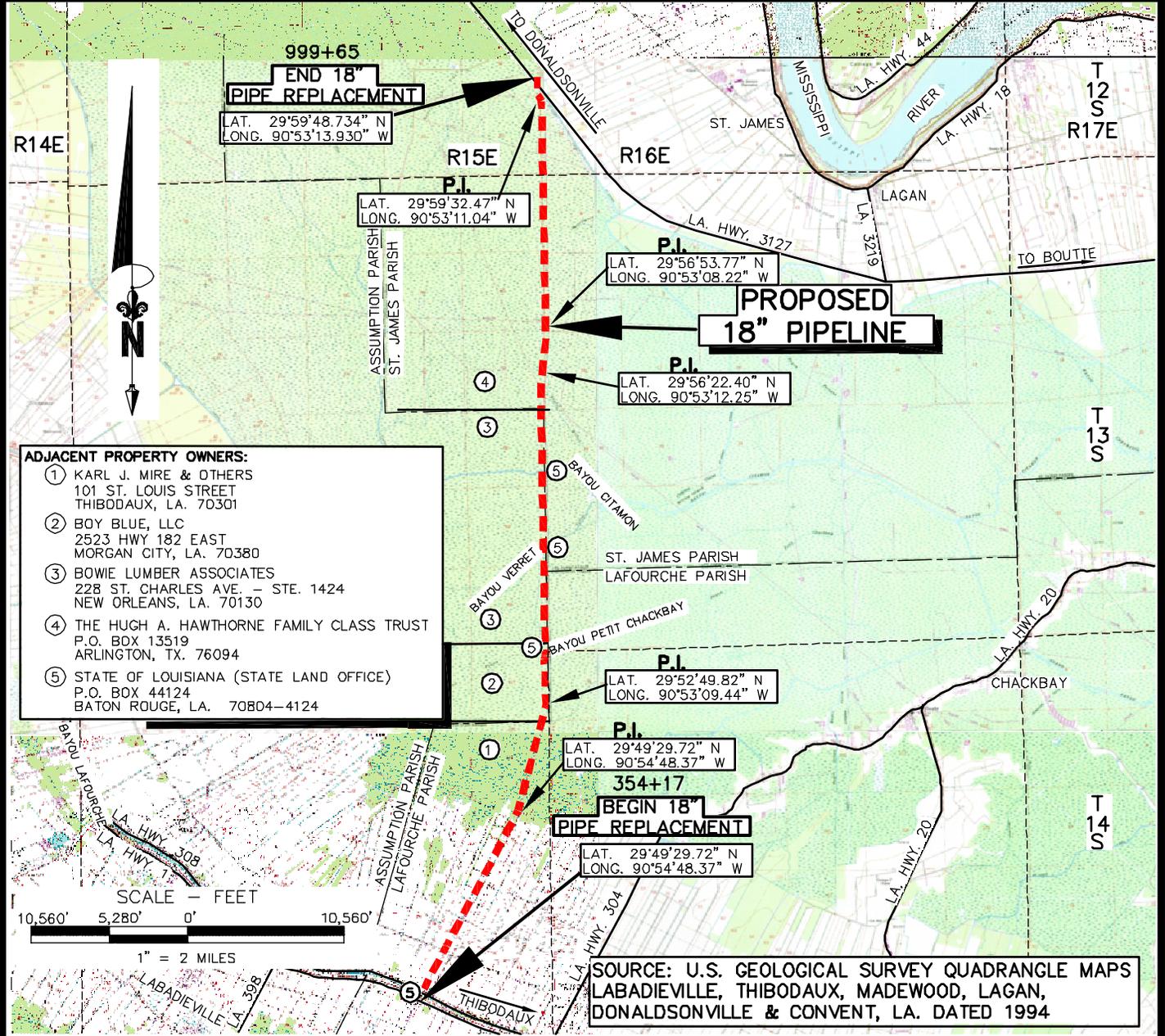
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John M. Herman  
Chief, Central Evaluation Section  
Regulatory Branch

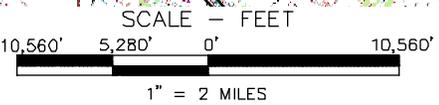
Enclosure

**ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA**

SEC. 32, 80, 119, 120, 165 & 127, T14S-R15E SEC. 76, 69, 68, 61, 60 & 51 T13S-R15E, SEC. 62 & 50, T12S-R15E



- ADJACENT PROPERTY OWNERS:**
- ① KARL J. MIRE & OTHERS  
101 ST. LOUIS STREET  
THIBODAUX, LA. 70301
  - ② BOY BLUE, LLC  
2523 HWY 182 EAST  
MORGAN CITY, LA. 70380
  - ③ BOWIE LUMBER ASSOCIATES  
228 ST. CHARLES AVE. - STE. 1424  
NEW ORLEANS, LA. 70130
  - ④ THE HUGH A. HAWTHORNE FAMILY CLASS TRUST  
P.O. BOX 13519  
ARLINGTON, TX. 76094
  - ⑤ STATE OF LOUISIANA (STATE LAND OFFICE)  
P.O. BOX 44124  
BATON ROUGE, LA. 70804-4124



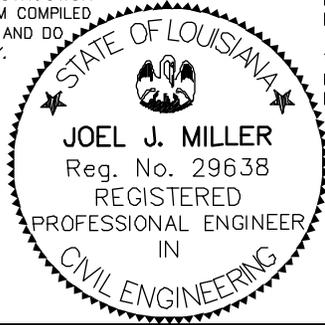
**SOURCE: U.S. GEOLOGICAL SURVEY QUADRANGLE MAPS LABADIEVILLE, THIBODAUX, MADEWOOD, LAGAN, DONALDSONVILLE & CONVENT, LA. DATED 1994**

**NOTE:**  
THESE DRAWING WERE PREPARED SOLELY FOR ACQUISITION OF REGULATORY PERMITS AND DO NOT REPRESENT ENGINEERING OR CONSTRUCTION PLANS. PROPERTY LINES SHOWN ARE FROM COMPILED DATA ACQUIRED FROM ASSESSOR RECORDS AND DO NOT REPRESENT A BOUNDARY SURVEY.

\* SEE SHEET 59 OF 59 FOR GENERAL NOTES AND REFERENCES.

THIS DRAWING WAS PREPARED SOLELY FOR USE BY TEXAS BRINE CO. L.L.C., IN CONJUNCTION WITH THE SPECIFIC PROJECT DESIGNATED IN THE TITLE BLOCK. USE FOR ANY OTHER PURPOSE, OR USE BY ANY OTHER PARTY SHALL BE AT USER'S SOLE RISK WITHOUT ANY LIABILITY TO MILLER ENGINEERS & ASSOCIATES.

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PREPARED BY:  
**ME & A**  
Miller Engineers & Associates, Inc.

**TEXAS BRINE COMPANY, LLC**

**PERMIT APPLICATION FOR PROPOSED 18" x 64,548' PIPELINE REPLACEMENT VICINITY MAP**  
ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA

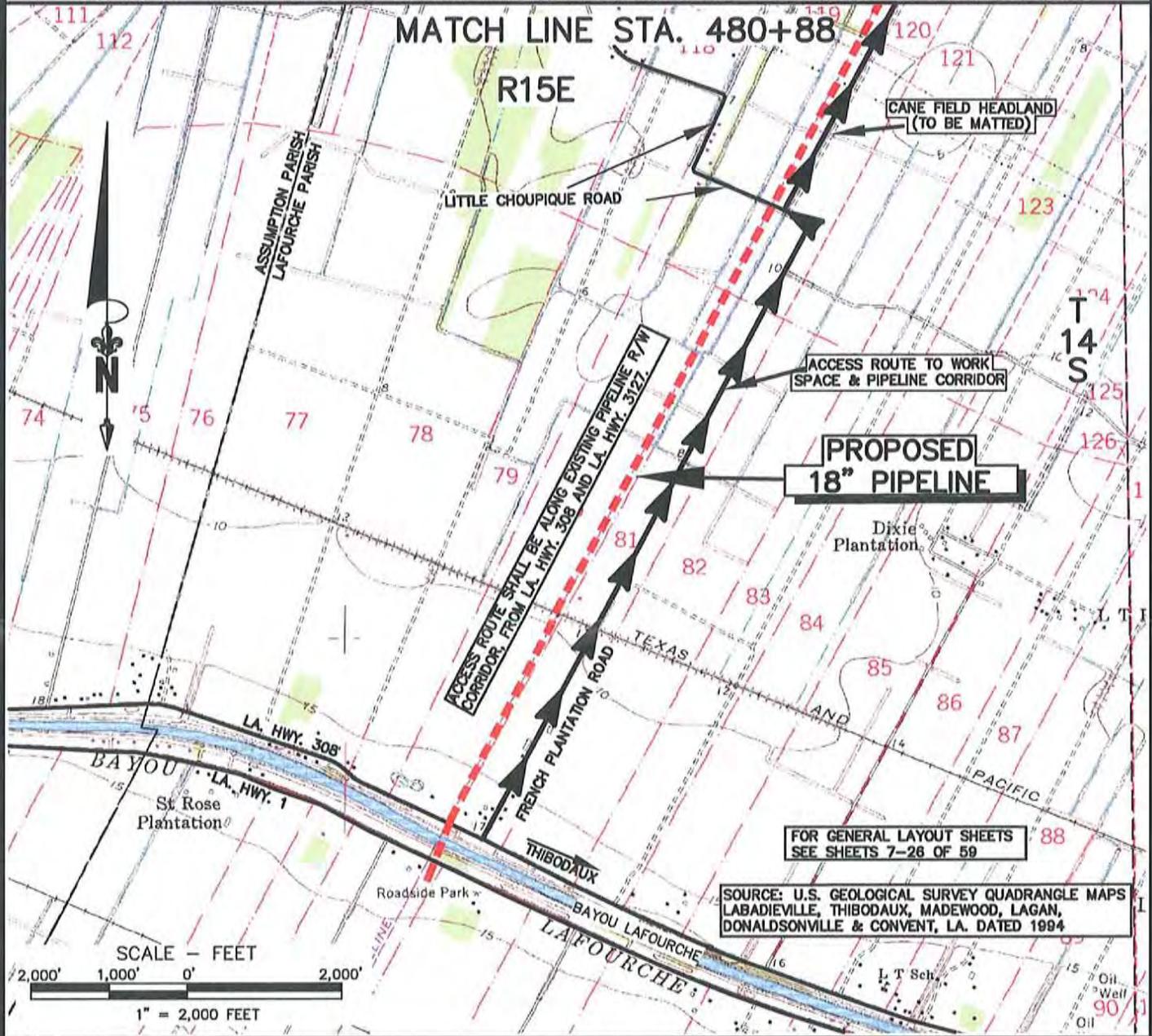
M.E. & A. DWG. NO. 13345-1, SHEET 1 OF 59

REV.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
1	5-31-16	TO CLARIFY TEXT	REK	JJM	JJM

**ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA**

SEC. 32, 80, 119, 120, 165 & 127, T14S-R15E SEC. 76, 69, 68, 61, 60 & 51 T13S-R15E, SEC. 62 & 50, T12S-R15E

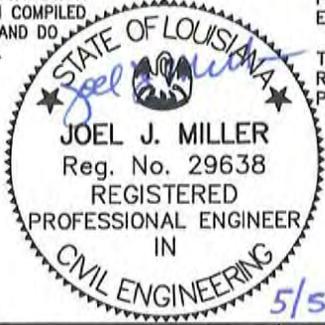
**MATCH LINE STA. 480+88**



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PREPARED BY:  

 Miller Engineers & Associates, Inc.

**TEXAS BRINE COMPANY, LLC**

PERMIT APPLICATION FOR  
 PROPOSED 18" x 64,548'  
 PIPELINE REPLACEMENT  
**ROUTE MAP 1 OF 5**  
 ASSUMPTION, LAFOURCHE &  
 & ST. JAMES PARISHES, LOUISIANA

REV.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
0	5-5-16	ISSUED DRAWINGS	REK	JJM	JJM

M.E. & A. DWG. NO. 13345-1, SHEET 2 OF 59

ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA

SEC. 32, 80, 119, 120, 165 & 127, T14S-R15E SEC. 76, 69, 68, 61, 60 & 51 T13S-R15E, SEC. 62 & 50, T12S-R15E



**PROPOSED  
18" PIPELINE**

ACCESS ROUTE SHALL BE ALONG EXISTING PIPELINE R/W CORRIDOR, FROM LA. HWY. 308 AND LA. HWY. 3127.

ACCESS ROUTE TO WORK SPACE & PIPELINE CORRIDOR

CANE FIELD HEADLAND (TO BE MATTED)

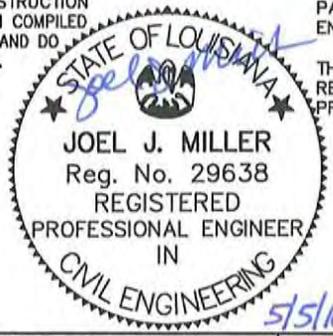
FOR GENERAL LAYOUT SHEETS SEE SHEETS 7-28 OF 59

SOURCE: U.S. GEOLOGICAL SURVEY QUADRANGLE MAPS LABADIEVILLE, THIBODAUX, MADEWOOD, LAGAN, DONALDSONVILLE & CONVENT, LA. DATED 1994

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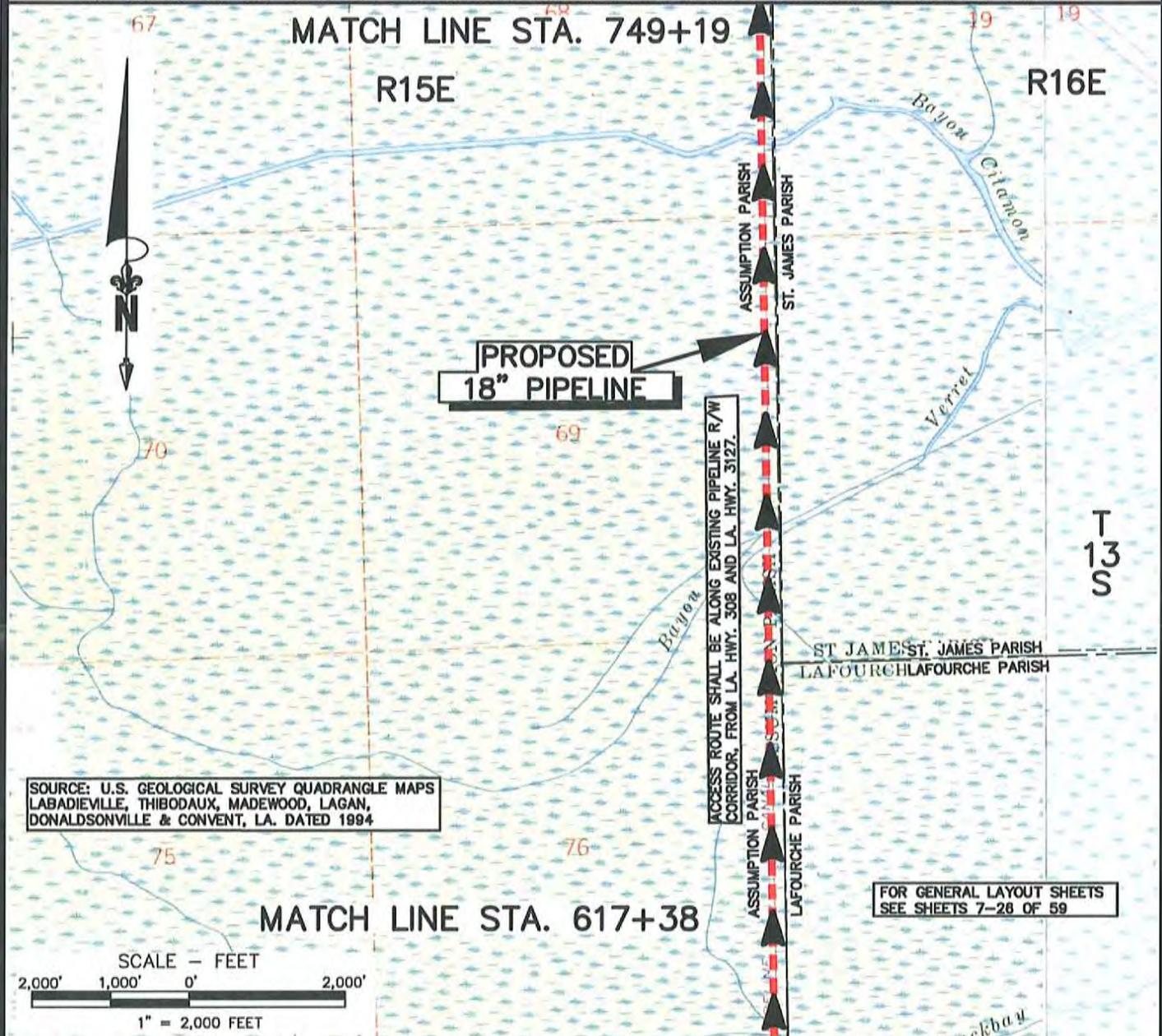
PERMIT APPLICATION FOR PROPOSED 18" x 64,548' PIPELINE REPLACEMENT  
**ROUTE MAP 2 OF 5**  
ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA

REV.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
0	5-5-16	ISSUED DRAWINGS	REK	JJM	JJM

M.E. & A. DWG. NO. 13345-1, SHEET 3 OF 59

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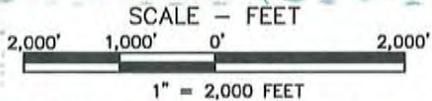


**PROPOSED  
18" PIPELINE**

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SOURCE: U.S. GEOLOGICAL SURVEY QUADRANGLE MAPS LABADIEVILLE, THIBODAUX, MADEWOOD, LAGAN, DONALDSONVILLE & CONVENT, LA. DATED 1994

FOR GENERAL LAYOUT SHEETS SEE SHEETS 7-28 OF 59



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Miller Engineers & Associates, Inc.



**TEXAS BRINE  
COMPANY, LLC**

PERMIT APPLICATION FOR  
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**ROUTE MAP 3 OF 5**  
ASSUMPTION, LAFOURCHE &  
& ST. JAMES PARISHES, LOUISIANA

M.E. & A. DWG. NO. 13345-1, SHEET 4 OF 59

REV.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
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SEC. 32, 80, 119, 120, 165 & 127, T14S-R15E SEC. 76, 69, 68, 61, 60 & 51 T13S-R15E, SEC. 62 & 50, T12S-R15E

**MATCH LINE STA. 881+16**

R15E

R16E



**PROPOSED  
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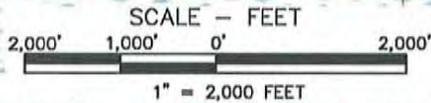
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FOR GENERAL LAYOUT SHEETS  
SEE SHEETS 7-28 OF 59

SOURCE: U.S. GEOLOGICAL SURVEY QUADRANGLE MAPS  
LABADIEVILLE, THIBODAUX, MADEWOOD, LAGAN,  
DONALDSONVILLE & CONVENT, LA. DATED 1994

ST. JAMES PARISH  
ASSUMPTION PARISH

**MATCH LINE STA. 749+19**



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PREPARED BY:



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**TEXAS BRINE  
COMPANY, LLC**

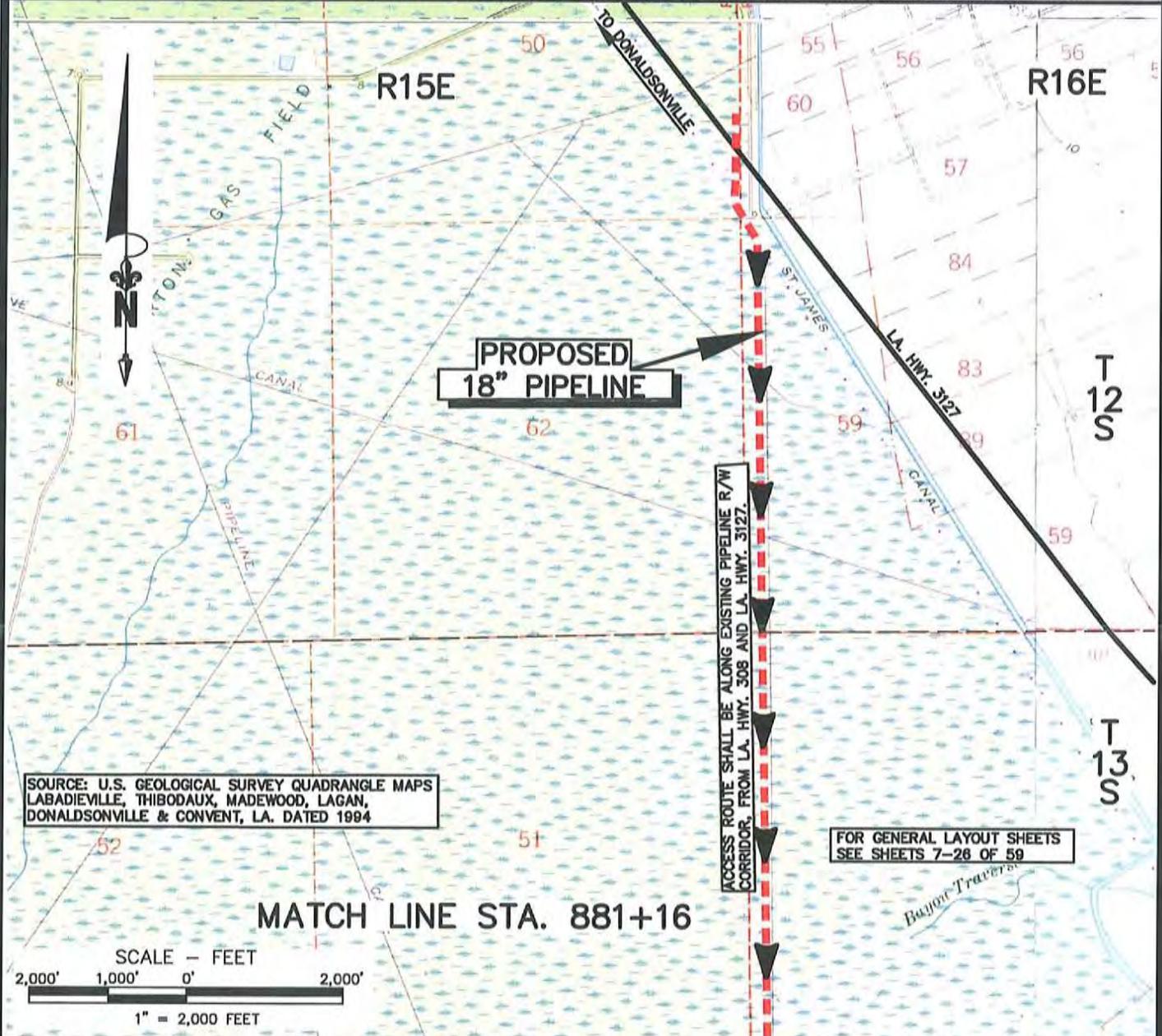
PERMIT APPLICATION FOR  
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PIPELINE REPLACEMENT  
**ROUTE MAP 4 OF 5**  
ASSUMPTION, LAFOURCHE &  
& ST. JAMES PARISHES, LOUISIANA

M.E. & A. DWG. NO. 13345-1, SHEET 5 OF 59

REV.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
0	5-5-16	ISSUED DRAWINGS	REK	JJM	JJM

**ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA**

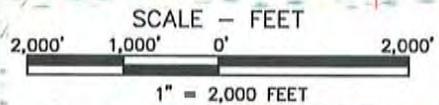
SEC. 32, 80, 119, 120, 165 & 127, T14S-R15E SEC. 76, 69, 68, 61, 60 & 51 T13S-R15E, SEC. 62 & 50, T12S-R15E



SOURCE: U.S. GEOLOGICAL SURVEY QUADRANGLE MAPS LABADIEVILLE, THIBODAUX, MADEWOOD, LAGAN, DONALDSONVILLE & CONVENT, LA. DATED 1994

FOR GENERAL LAYOUT SHEETS SEE SHEETS 7-26 OF 59

**MATCH LINE STA. 881+16**



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**TEXAS BRINE COMPANY, LLC**

PERMIT APPLICATION FOR PROPOSED 18" x 64,548' PIPELINE REPLACEMENT  
**ROUTE MAP 5 OF 5**  
 ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA

REV.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
0	5-5-16	ISSUED DRAWINGS	REK	JJM	JJM

M.E. & A. DWG. NO. 13345-1, SHEET 6 OF 59

**ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA**

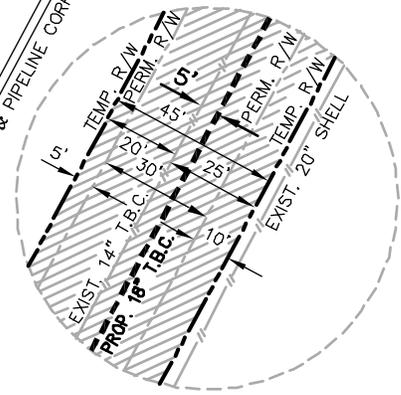
SEC. 32, 80, 119, 120, 165 & 127, T14S-R15E SEC. 76, 69, 68, 61, 60 & 51 T13S-R15E, SEC. 62 & 50, T12S-R15E

**MATCH LINE STA. 384+30**

**LEGEND:**

-  H.D.D.
- (DASH-DOT)
-  OPEN CUT
- (DASHED)

**NOTE:**  
NO ADDITIONAL WORK SPACE IS REQ'D.  
FOR H.D.D. AND BACK STRINGING OF PIPE.  
ALL WORK TO BE DONE IN TEMP. R/W.



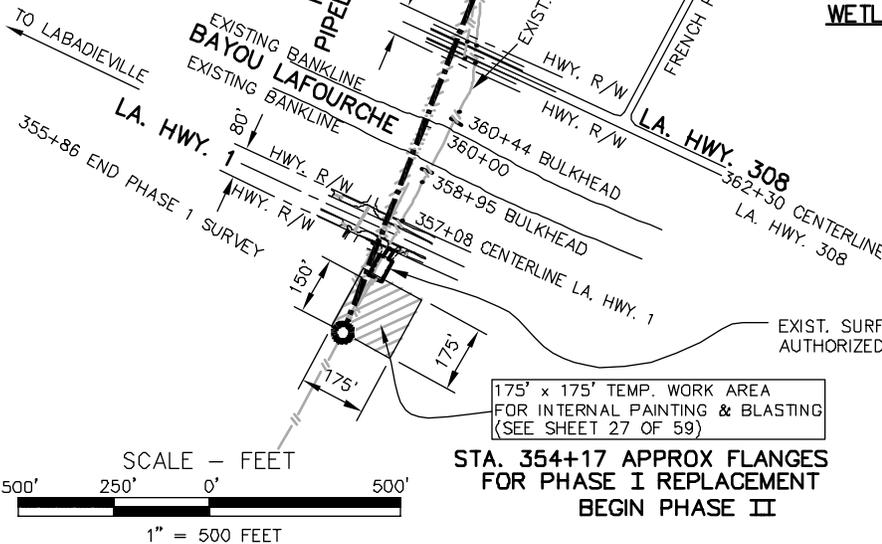
**R/W DETAIL**  
STA. 356+94 TO STA. 401+83

**FOR H.D.D. PLAN & PROFILE**  
SEE SHEET 38 OF 59

**FOR EXC. & BACKFILL STA. 365+45 TO 401+83**  
PLAN & PROFILE SEE SHEET 32 OF 59 SEC. "A-A"

**WETLAND IMPACTS THIS SHEET = 0.00 ACRES**

-  DENOTES NON WETLANDS  
(±3.15 ACRES THIS SHEET)
-  DENOTES OTHER WATERS  
(±0.05 ACRES THIS SHEET)



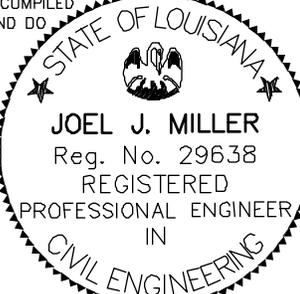
**STA. 354+17 APPROX FLANGES**  
**FOR PHASE I REPLACEMENT**  
**BEGIN PHASE II**

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STATE OF LOUISIANA



**JOEL J. MILLER**  
Reg. No. 29638  
REGISTERED  
PROFESSIONAL ENGINEER  
IN  
CIVIL ENGINEERING

PREPARED BY:



Miller Engineers & Associates, Inc.

 **TEXAS BRINE  
COMPANY, LLC**

PERMIT APPLICATION FOR  
PROPOSED 18" x 64,548'  
PIPELINE REPLACEMENT  
**GENERAL LAYOUT 1 OF 20**  
ASSUMPTION, LAFOURCHE &  
& ST. JAMES PARISHES, LOUISIANA

M.E. & A. DWG. NO. 13345-1, SHEET 7 OF 59

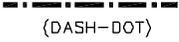
REV.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
2	5-31-16	TO SHOW HATCHING FOR IMPACTS	REK	JJM	JJM

**ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA**

SEC. 32, 80, 119, 120, 165 & 127, T14S-R15E SEC. 76, 69, 68, 61, 60 & 51 T13S-R15E, SEC. 62 & 50, T12S-R15E

**MATCH LINE STA. 421+49**

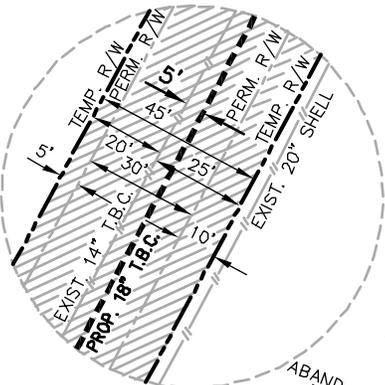
**LEGEND:**

	H.D.D.
	OPEN CUT

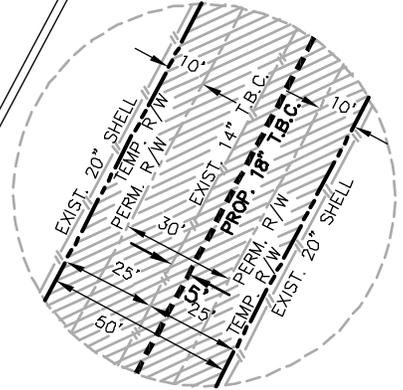


FOR EXC. & BACKFILL STA. 401+83 TO 493+44  
PLAN & PROFILE SEE SHEET 33 OF 59 SEC. "B-B"

FOR EXC. & BACKFILL STA. 365+45 TO 401+83  
PLAN & PROFILE SEE SHEET 32 OF 59 SEC. "A-A"

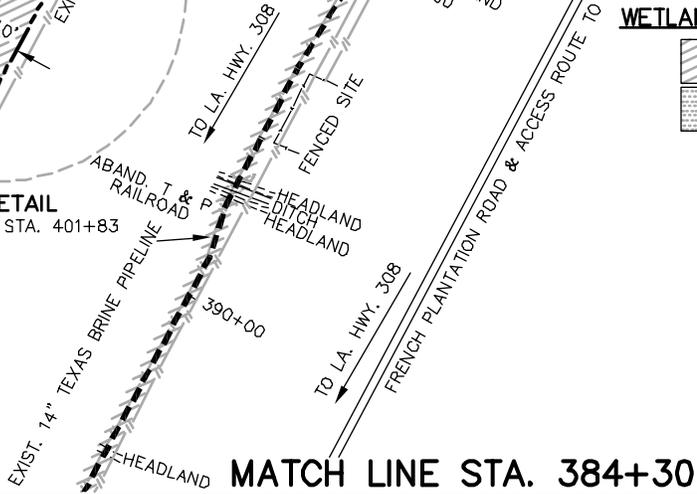


**R/W DETAIL**  
STA. 356+94 TO STA. 401+83



**R/W DETAIL**  
STA. 401+83 TO STA. 606+91

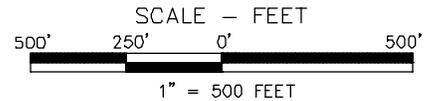
**PROPOSED 18" PIPELINE REPLACEMENT**



**MATCH LINE STA. 384+30**

**WETLAND IMPACTS THIS SHEET = 0.00 ACRES**

	DENOTES NON WETLANDS (±4.05 ACRES THIS SHEET)
	DENOTES OTHER WATERS (±0.03 ACRES THIS SHEET)

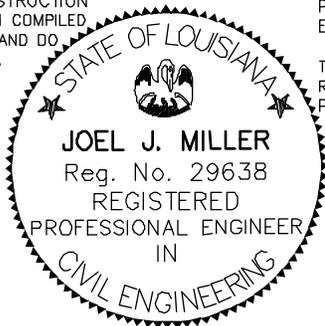


**NOTE:**  
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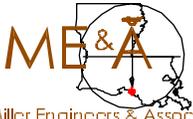
\* SEE SHEET 59 OF 59 FOR GENERAL NOTES AND REFERENCES.

THIS DRAWING WAS PREPARED SOLELY FOR USE BY TEXAS BRINE CO. L.L.C., IN CONJUNCTION WITH THE SPECIFIC PROJECT DESIGNATED IN THE TITLE BLOCK. USE FOR ANY OTHER PURPOSE, OR USE BY ANY OTHER PARTY SHALL BE AT USER'S SOLE RISK WITHOUT ANY LIABILITY TO MILLER ENGINEERS & ASSOCIATES.

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PREPARED BY:



Miller Engineers & Associates, Inc.

 **TEXAS BRINE COMPANY, LLC**

PERMIT APPLICATION FOR  
PROPOSED 18" x 64,548'  
PIPELINE REPLACEMENT  
**GENERAL LAYOUT 2 OF 20**  
ASSUMPTION, LAFOURCHE &  
& ST. JAMES PARISHES, LOUISIANA

REV.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
1	5-31-16	TO SHOW HATCHING FOR IMPACTS	REK	JJM	JJM

M.E. & A. DWG. NO. 13345-1, SHEET 8 OF 59

**ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA**  
 SEC. 32, 80, 119, 120, 165 & 127, T14S-R15E SEC. 76, 69, 68, 61, 60 & 51 T13S-R15E, SEC. 62 & 50, T12S-R15E

**MATCH LINE STA. 458+82**

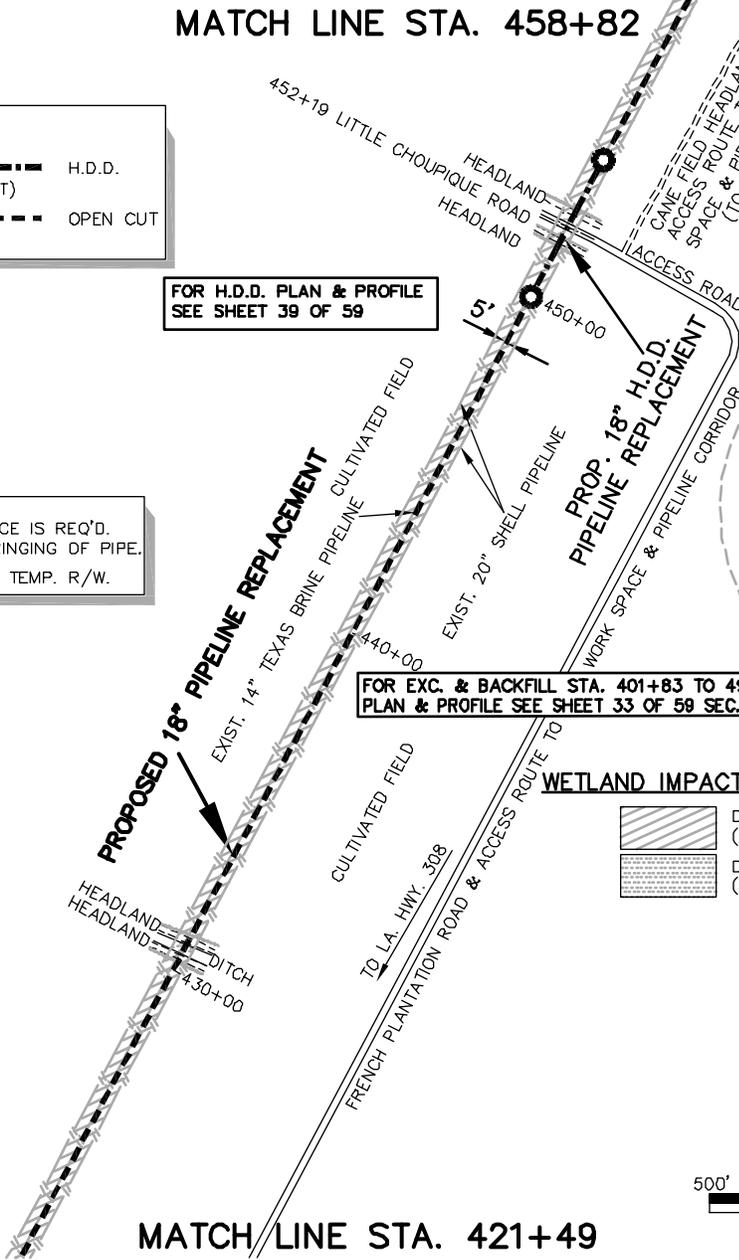
**LEGEND:**

- H.D.D.
- OPEN CUT

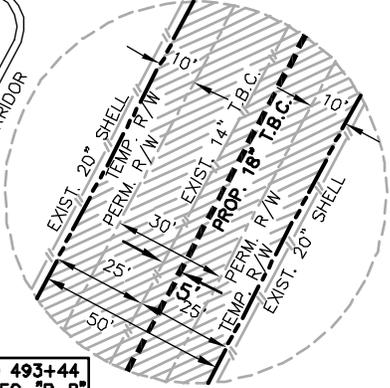


**FOR H.D.D. PLAN & PROFILE SEE SHEET 39 OF 59**

**NOTE:**  
 NO ADDITIONAL WORK SPACE IS REQ'D.  
 FOR H.D.D. AND BACK STRINGING OF PIPE.  
 ALL WORK TO BE DONE IN TEMP. R/W.



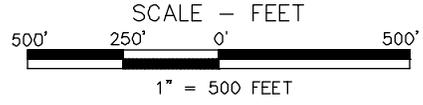
**FOR EXC. & BACKFILL STA. 401+83 TO 493+44  
 PLAN & PROFILE SEE SHEET 33 OF 59 SEC. "B-B"**



**R/W DETAIL**  
 STA. 401+83 TO STA. 606+91

**WETLAND IMPACTS THIS SHEET = 0.00 ACRES**

- DENOTES NON WETLANDS (±4.46 ACRES THIS SHEET)
- DENOTES OTHER WATERS (±0.05 ACRES THIS SHEET)



**MATCH LINE STA. 421+49**

**NOTE:**  
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\* SEE SHEET 59 OF 59 FOR GENERAL NOTES AND REFERENCES.

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STATE OF LOUISIANA

**JOEL J. MILLER**  
 Reg. No. 29638  
 REGISTERED PROFESSIONAL ENGINEER  
 IN  
 CIVIL ENGINEERING

PREPARED BY:

Miller Engineers & Associates, Inc.

**TEXAS BRINE COMPANY, LLC**

---

PERMIT APPLICATION FOR  
**PROPOSED 18" x 64,548'**  
 PIPELINE REPLACEMENT  
**GENERAL LAYOUT 3 OF 20**  
 ASSUMPTION, LAFOURCHE &  
 & ST. JAMES PARISHES, LOUISIANA

---

M.E. & A. DWG. NO. 13345-1, SHEET 9 OF 59

REV.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
2	5-31-16	TO SHOW HATCHING FOR IMPACTS	REK	JJM	JJM

**ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA**  
 SEC. 32, 80, 119, 120, 165 & 127, T14S-R15E SEC. 76, 69, 68, 61, 60 & 51 T13S-R15E, SEC. 62 & 50, T12S-R15E

**MATCH LINE STA. 496+16**

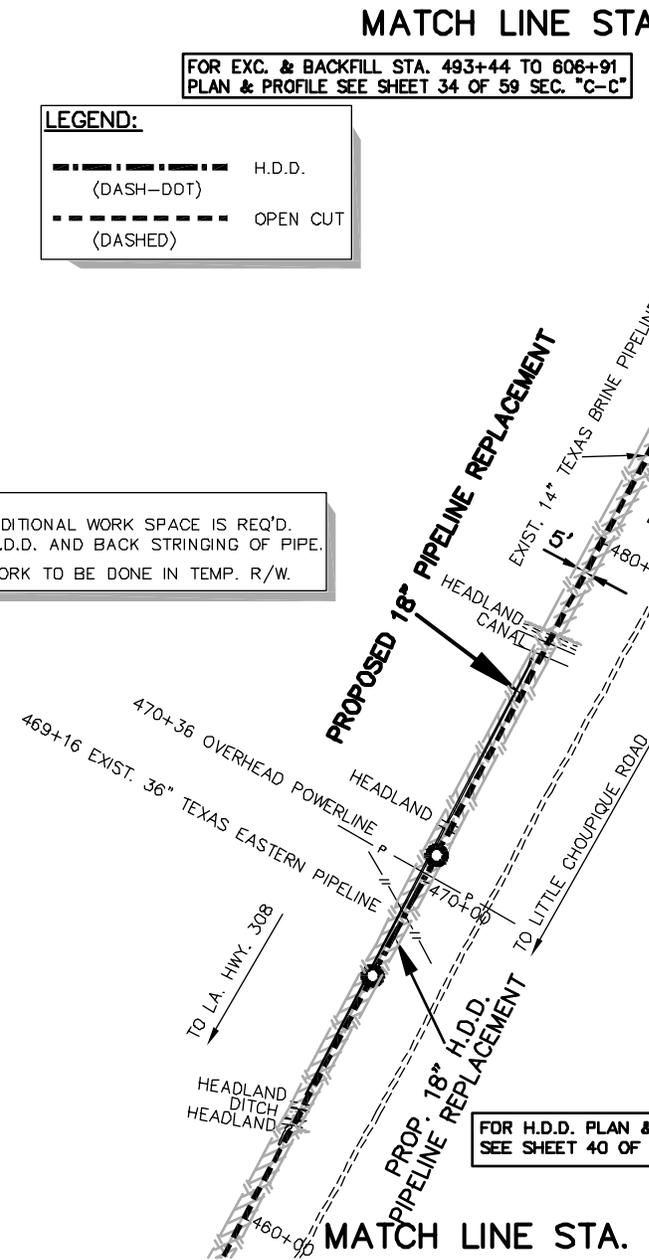
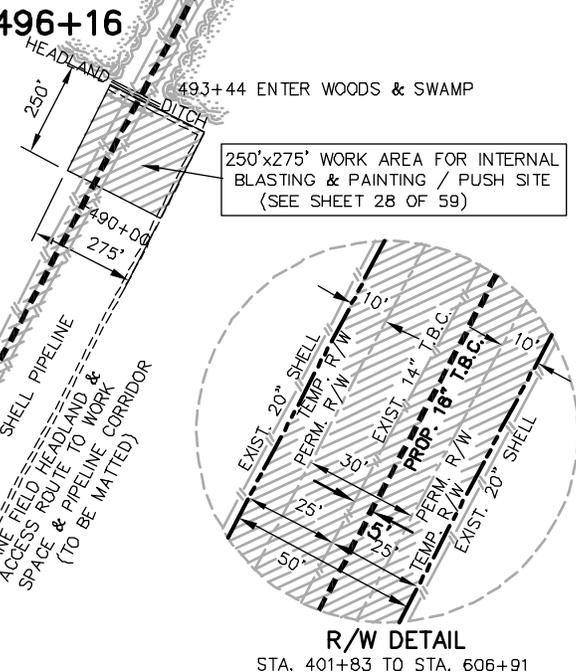
FOR EXC. & BACKFILL STA. 493+44 TO 606+91  
 PLAN & PROFILE SEE SHEET 34 OF 59 SEC. "C-C"

**LEGEND:**

- H.D.D. (DASH-DDT)
- - - - - OPEN CUT (DASHED)



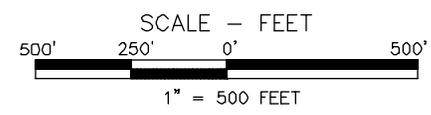
**NOTE:**  
 NO ADDITIONAL WORK SPACE IS REQ'D. FOR H.D.D. AND BACK STRINGING OF PIPE.  
 ALL WORK TO BE DONE IN TEMP. R/W.



FOR EXC. & BACKFILL STA. 401+83 TO 493+44  
 PLAN & PROFILE SEE SHEET 33 OF 59 SEC. "B-B"

**WETLAND IMPACTS THIS SHEET = 0.74 ACRES**

- DENOTES FORESTED WETLANDS (CT) (±0.08 ACRES THIS SHEET (PERM. IMPACTS))
- DENOTES EMERGENT WETLANDS (±0.66 ACRES THIS SHEET) (TEMP. IMPACTS)
- DENOTES NON WETLANDS (±5.01 ACRES THIS SHEET)
- DENOTES OTHER WATERS (±0.02 ACRES THIS SHEET)



FOR H.D.D. PLAN & PROFILE  
 SEE SHEET 40 OF 59

**MATCH LINE STA. 458+82**

**NOTE:**  
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\* SEE SHEET 59 OF 59 FOR GENERAL NOTES AND REFERENCES.

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PREPARED BY:

Miller Engineers & Associates, Inc.

STATE OF LOUISIANA

**JOEL J. MILLER**  
 Reg. No. 29638  
 REGISTERED PROFESSIONAL ENGINEER  
 IN  
 CIVIL ENGINEERING

**TEXAS BRINE COMPANY, LLC**

PERMIT APPLICATION FOR  
 PROPOSED 18" x 64,548'  
 PIPELINE REPLACEMENT  
**GENERAL LAYOUT 4 OF 20**  
 ASSUMPTION, LAFOURCHE &  
 & ST. JAMES PARISHES, LOUISIANA

M.E. & A. DWG. NO. 13345-1, SHEET 10 OF 59

REV.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
2	5-31-16	TO SHOW HATCHING FOR IMPACTS	REK	JJM	JJM



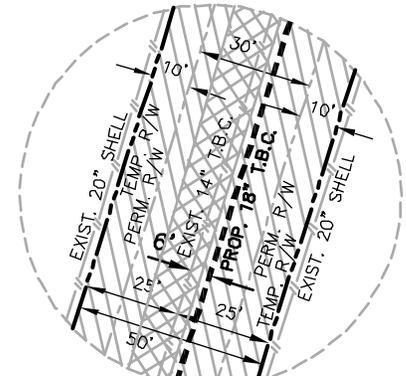
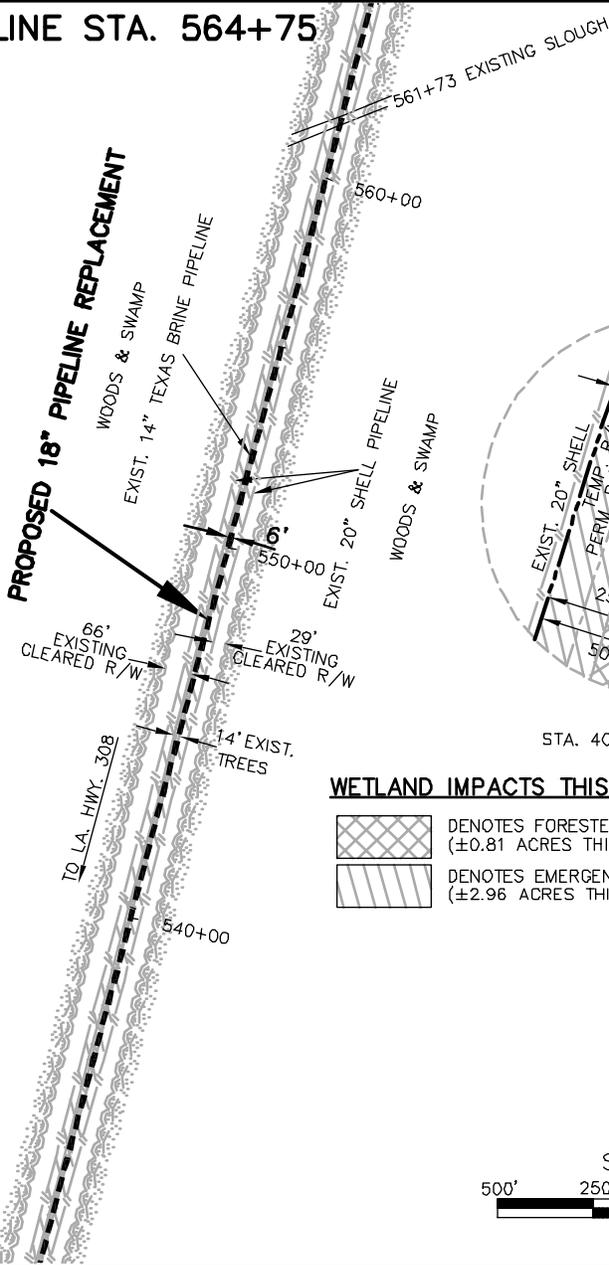
MATCH LINE STA. 564+75

**LEGEND:**

- H.D.D. (DASH-DOT)
- - - OPEN CUT (DASHED)



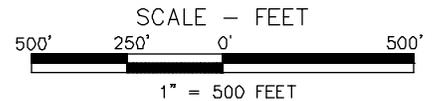
FOR EXC. & BACKFILL STA. 493+44 TO 606+91  
 PLAN & PROFILE SEE SHEET 34 OF 59 SEC. "C-C"



**R/W DETAIL**  
 STA. 401+83 TO STA. 606+91

**WETLAND IMPACTS THIS SHEET = 3.77 ACRES**

- DENOTES FORESTED WETLANDS (CT) (±0.81 ACRES THIS SHEET) (PERM. IMPACTS)
- DENOTES EMERGENT WETLANDS (±2.96 ACRES THIS SHEET) (TEMP. IMPACTS)



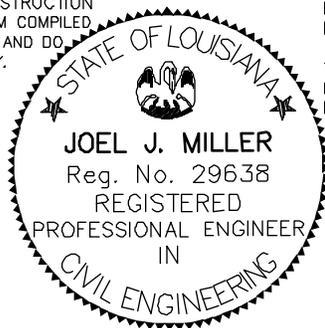
MATCH LINE STA. 530+65

**NOTE:**  
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\* SEE SHEET 59 OF 59 FOR GENERAL NOTES AND REFERENCES.

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PREPARED BY:



Miller Engineers & Associates, Inc.



PERMIT APPLICATION FOR  
 PROPOSED 18" x 64,548'  
 PIPELINE REPLACEMENT

**GENERAL LAYOUT 6 OF 20**

ASSUMPTION, LAFOURCHE &  
 & ST. JAMES PARISHES, LOUISIANA

REV.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
1	5-31-16	TD SHOW HATCHING FOR IMPACTS	REK	JJM	JJM

M.E. & A. DWG. NO. 13345-1, SHEET 12 OF 59

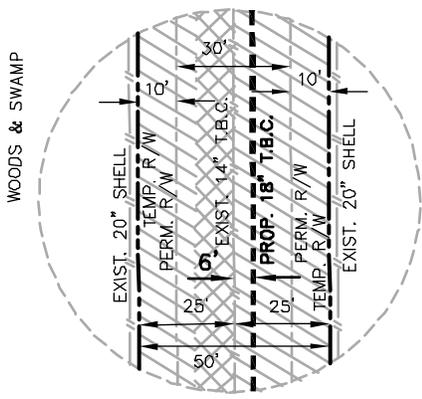
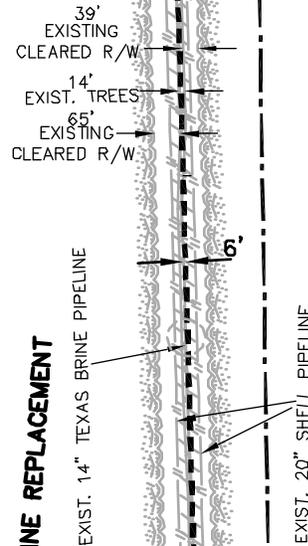
**ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA**  
 SEC. 32, 80, 119, 120, 165 & 127, T14S-R15E SEC. 76, 69, 68, 61, 60 & 51 T13S-R15E, SEC. 62 & 50, T12S-R15E

**MATCH LINE STA. 597+96**



**LEGEND:**

- H.D.D. (DASH-DOT)
- OPEN CUT (DASHED)



FOR EXC. & BACKFILL STA. 493+44 TO 606+91  
 PLAN & PROFILE SEE SHEET 34 OF 59 SEC. "C-C"

WOODS & SWAMP

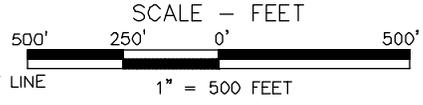
WOODS & SWAMP

**PROPOSED 18" PIPELINE REPLACEMENT**

**WETLAND IMPACTS THIS SHEET = 3.67 ACRES**

- DENOTES FORESTED WETLANDS (CT) (±0.83 ACRES THIS SHEET (PERM. IMPACTS))
- DENOTES EMERGENT WETLANDS (±2.99 ACRES THIS SHEET) (TEMP. IMPACTS)

**MATCH LINE STA. 564+75**



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 \* SEE SHEET 59 OF 59 FOR GENERAL NOTES AND REFERENCES.

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STATE OF LOUISIANA  
  
**JOEL J. MILLER**  
 Reg. No. 29638  
 REGISTERED PROFESSIONAL ENGINEER  
 IN  
 CIVIL ENGINEERING

PREPARED BY:  
  
 Miller Engineers & Associates, Inc.

**TEXAS BRINE COMPANY, LLC**

---

PERMIT APPLICATION FOR  
 PROPOSED 18" x 64,548'  
 PIPELINE REPLACEMENT  
**GENERAL LAYOUT 7 OF 20**  
 ASSUMPTION, LAFOURCHE &  
 & ST. JAMES PARISHES, LOUISIANA

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M.E. & A. DWG. NO. 13345-1, SHEET 13 OF 59

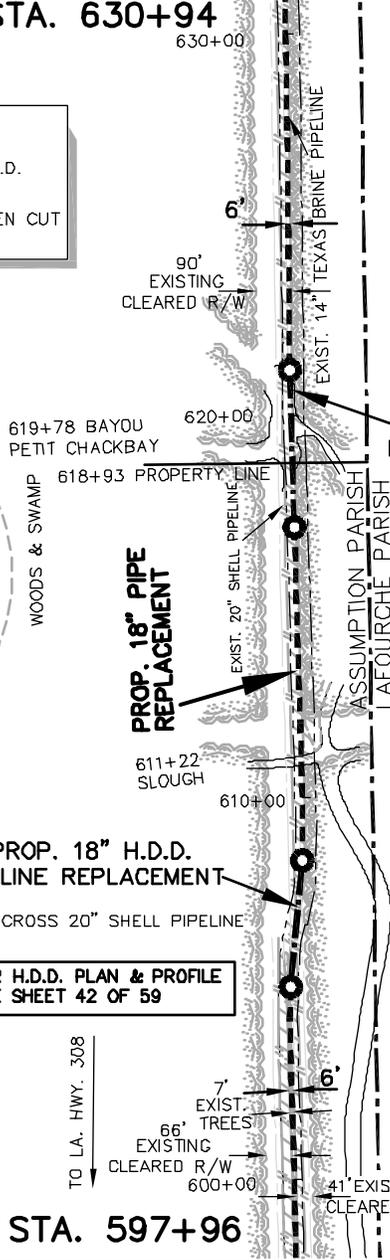
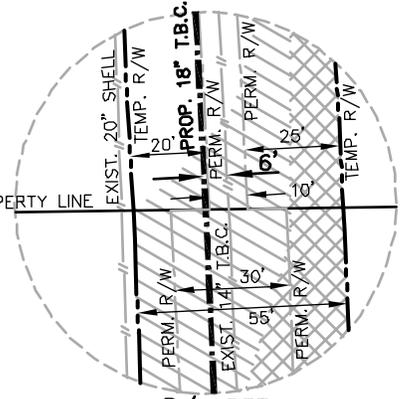
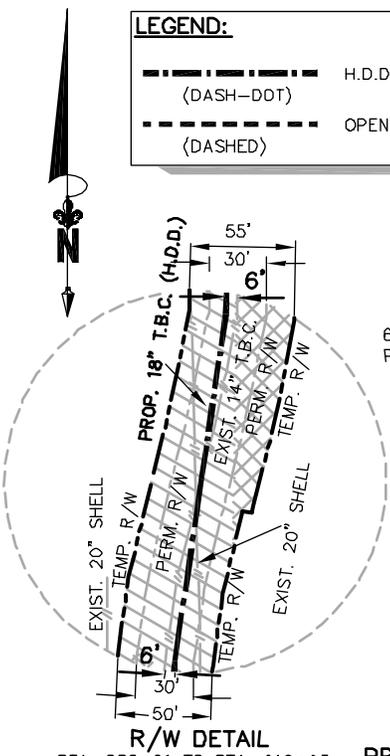
REV.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
1	5-31-16	TO SHOW HATCHING FOR IMPACTS	REK	JJM	JJM

**ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA**  
 SEC. 32, 80, 119, 120, 165 & 127, T14S-R15E SEC. 76, 69, 68, 61, 60 & 51 T13S-R15E, SEC. 62 & 50, T12S-R15E

**MATCH LINE STA. 630+94**

**LEGEND:**

-  H.D.D.
-  OPEN CUT



**PROP. 18" H.D.D. PIPELINE REPLACEMENT**  
 FOR H.D.D. PLAN & PROFILE SEE SHEET 43 OF 59

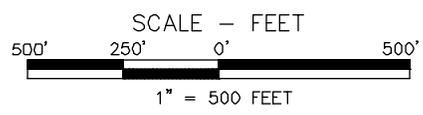
FOR EXC. & BACKFILL STA. 618+93 TO 771+77  
 PLAN & PROFILE SEE SHEET 36 OF 59 SEC. "E-E"

FOR EXC. & BACKFILL STA. 606+91 TO 618+93  
 PLAN & PROFILE SEE SHEET 35 OF 59 SEC. "D-D"

**WETLAND IMPACTS THIS SHEET = 3.80 ACRES**

-  DENOTES FORESTED WETLANDS (CT) (±1.48 ACRES THIS SHEET (PERM. IMPACTS))
-  DENOTES EMERGENT WETLANDS (±2.32 ACRES THIS SHEET) (TEMP. IMPACTS)

**NOTE:**  
 NO ADDITIONAL WORK SPACE IS REQ'D.  
 FOR H.D.D. AND BACK STRINGING OF PIPE.  
 ALL WORK TO BE DONE IN TEMP. R/W.



**MATCH LINE STA. 597+96**

**NOTE:**  
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 \* SEE SHEET 59 OF 59 FOR GENERAL NOTES AND REFERENCES.

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STATE OF LOUISIANA  
  
**JOEL J. MILLER**  
 Reg. No. 29638  
 REGISTERED  
 PROFESSIONAL ENGINEER  
 IN  
 CIVIL ENGINEERING

PREPARED BY:  
  
 Miller Engineers & Associates, Inc.

 **TEXAS BRINE COMPANY, LLC**

PERMIT APPLICATION FOR  
 PROPOSED 18" x 64,548'  
 PIPELINE REPLACEMENT  
**GENERAL LAYOUT 8 OF 20**  
 ASSUMPTION, LAFOURCHE &  
 & ST. JAMES PARISHES, LOUISIANA

M.E. & A. DWG. NO. 13345-1, SHEET 14 OF 59

REV.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
2	5-31-16	TO SHOW HATCHING FOR IMPACTS	REK	JJM	JJM

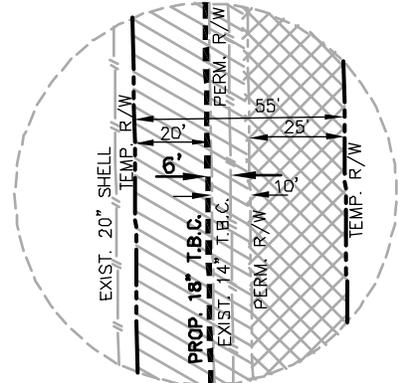
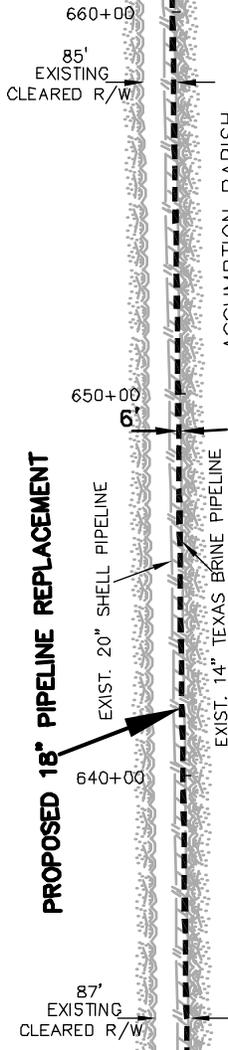
**ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA**  
 SEC. 32, 80, 119, 120, 165 & 127, T14S-R15E SEC. 76, 69, 68, 61, 60 & 51 T13S-R15E, SEC. 62 & 50, T12S-R15E

**MATCH LINE STA. 663+92**



**LEGEND:**

- H.D.D.
- OPEN CUT

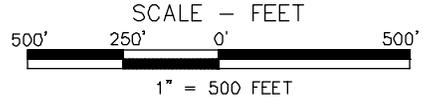


**R/W DETAIL**  
 STA. 618+93 TO STA. 771+77

**FOR EXC. & BACKFILL STA. 618+93 TO 771+77  
 PLAN & PROFILE SEE SHEET 36 OF 59 SEC. "E-E"**

**WETLAND IMPACTS THIS SHEET = 4.02 ACRES**

- DENOTES FORESTED WETLANDS (CT)  
 (±1.82 ACRES THIS SHEET (PERM. IMPACTS))
- DENOTES EMERGENT WETLANDS  
 (±2.20 ACRES THIS SHEET) (TEMP. IMPACTS)



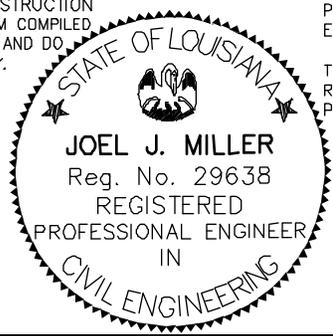
**MATCH LINE STA. 630+94**

**NOTE:**  
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\* SEE SHEET 59 OF 59 FOR GENERAL NOTES AND REFERENCES.

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PREPARED BY:  
  
 Miller Engineers & Associates, Inc.

**TEXAS BRINE COMPANY, LLC**  
 PERMIT APPLICATION FOR  
 PROPOSED 18" x 64,548'  
 PIPELINE REPLACEMENT  
**GENERAL LAYOUT 9 OF 20**  
 ASSUMPTION, LAFOURCHE &  
 & ST. JAMES PARISHES, LOUISIANA  
 M.E. & A. DWG. NO. 13345-1, SHEET 15 OF 59

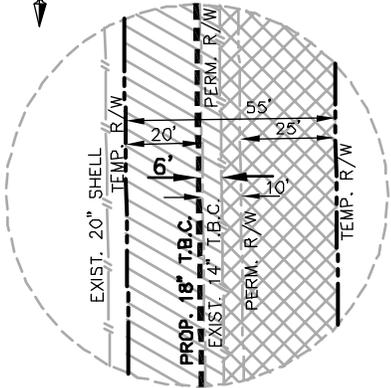
REV.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
1	5-31-16	TO SHOW HATCHING FOR IMPACTS	REK	JJM	JJM

**ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA**  
 SEC. 32, 80, 119, 120, 165 & 127, T14S-R15E SEC. 76, 69, 68, 61, 60 & 51 T13S-R15E, SEC. 62 & 50, T12S-R15E

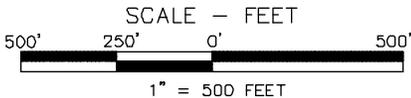
**MATCH LINE STA. 696+90**

**LEGEND:**

- H.D.D. (DASH-DOT)
- OPEN CUT (DASHED)



**R/W DETAIL**  
 STA. 618+93 TO STA. 771+77



**PROPOSED 18" PIPELINE REPLACEMENT**

93' EXISTING CLEARED R/W  
 690+00

**PROP. 18" H.D.D. PIPELINE REPLACEMENT**

78' EXISTING CLEARED R/W  
 670+00

EXIST. 20" SHELL PIPELINE

EXIST. 14" TEXAS BRINE PIPELINE

681+54 BAYOU VERRET

680+00

670+00

TO LA. HWY. 3127

WOODS & SWAMP

ASSUMPTION PARISH

ST. JAMES PARISH

ST. JAMES PARISH

LAFOURCHE PARISH

**FOR EXC. & BACKFILL STA. 618+93 TO 771+77**  
 PLAN & PROFILE SEE SHEET 36 OF 59 SEC. "E-E"

**FOR H.D.D. PLAN & PROFILE**  
 SEE SHEET 44 OF 59

**WETLAND IMPACTS THIS SHEET = 3.94 ACRES**

- DENOTES FORESTED WETLANDS (CT) (±1.99 ACRES THIS SHEET (PERM. IMPACTS))
- DENOTES EMERGENT WETLANDS (±1.95 ACRES THIS SHEET) (TEMP. IMPACTS)
- DENOTES SECTION 10 WATERS (±0.22 ACRES THIS SHEET)

**NOTE:**  
 NO ADDITIONAL WORK SPACE IS REQ'D. FOR H.D.D. AND BACK STRINGING OF PIPE. ALL WORK TO BE DONE IN TEMP. R/W.

**MATCH LINE STA. 663+92**

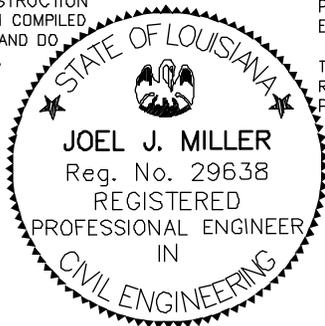
665+50 192' RT. TO 3 PARISHES CORNER

**NOTE:**  
 THESE DRAWING WERE PREPARED SOLELY FOR ACQUISITION OF REGULATORY PERMITS AND DO NOT REPRESENT ENGINEERING OR CONSTRUCTION PLANS. PROPERTY LINES SHOWN ARE FROM COMPILED DATA ACQUIRED FROM ASSESSOR RECORDS AND DO NOT REPRESENT A BOUNDARY SURVEY.

\* SEE SHEET 59 OF 59 FOR GENERAL NOTES AND REFERENCES.

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PREPARED BY:



Miller Engineers & Associates, Inc.



**TEXAS BRINE COMPANY, LLC**

**PERMIT APPLICATION FOR PROPOSED 18" x 64,548' PIPELINE REPLACEMENT**  
**GENERAL LAYOUT 10 OF 20**

ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA

REV.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
2	5-31-16	TO SHOW HATCHING FOR IMPACTS	REK	JJM	JJM

M.E. & A. DWG. NO. 13345-1, SHEET 16 OF 59

**ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA**  
 SEC. 32, 80, 119, 120, 165 & 127, T14S-R15E SEC. 76, 69, 68, 61, 60 & 51 T13S-R15E, SEC. 62 & 50, T12S-R15E

**MATCH LINE STA. 729+88**



LEGEND:	
	H.D.D.
	(DASH-DOT)
	OPEN CUT
	(DASHED)

86'  
EXISTING  
CLEARED R/W

720+00

EXIST. 20" SHELL PIPELINE

**PROPOSED 18" PIPELINE REPLACEMENT**

710+00

6'

700+00

702+59 EXIST. RIDGE

EXIST. 14" TEXAS BRINE PIPELINE

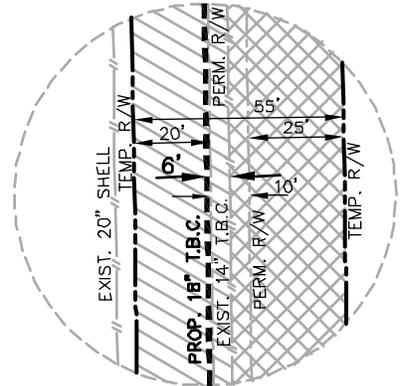
ASSUMPTION PARISH

ST. JAMES PARISH

WOODS & SWAMP

WOODS & SWAMP

TO LA. HWY. 3127

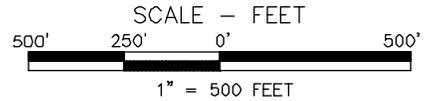


**R/W DETAIL**  
STA. 618+93 TO STA. 771+77

**FOR EXC. & BACKFILL STA. 618+93 TO 771+77**  
**PLAN & PROFILE SEE SHEET 36 OF 59 SEC. "E-E"**

**WETLAND IMPACTS THIS SHEET = 4.01 ACRES**

- DENOTES FORESTED WETLANDS (CT)  
(±2.22 ACRES THIS SHEET (PERM. IMPACTS))
- DENOTES EMERGENT WETLANDS  
(±1.79 ACRES THIS SHEET) (TEMP. IMPACTS)



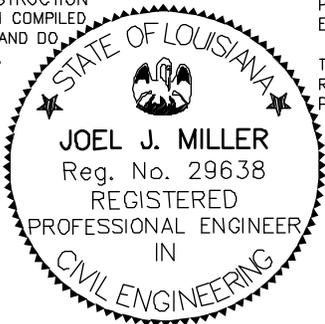
**MATCH LINE STA. 696+90**

**NOTE:**  
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\* SEE SHEET 59 OF 59 FOR GENERAL NOTES AND REFERENCES.

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PREPARED BY:



Miller Engineers & Associates, Inc.

**TEXAS BRINE COMPANY, LLC**

**PERMIT APPLICATION FOR PROPOSED 18" x 64,548' PIPELINE REPLACEMENT**  
**GENERAL LAYOUT 11 OF 20**  
 ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA

REV.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
1	5-31-16	TO SHOW HATCHING FOR IMPACTS	REK	JJM	JJM

M.E. & A. DWG. NO. 13345-1, SHEET 17 OF 59

**ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA**  
 SEC. 32, 80, 119, 120, 165 & 127, T14S-R15E SEC. 76, 69, 68, 61, 60 & 51 T13S-R15E, SEC. 62 & 50, T12S-R15E

**MATCH LINE STA. 762+86**

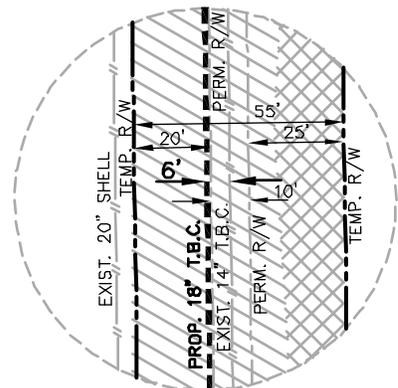


**LEGEND:**

- H.D.D. (DASH-DOT)
- OPEN CUT (DASHED)

105' EXISTING CLEARED R/W

TO LA. HWY. 3127



**R/W DETAIL**  
 STA. 618+93 TO STA. 771+77

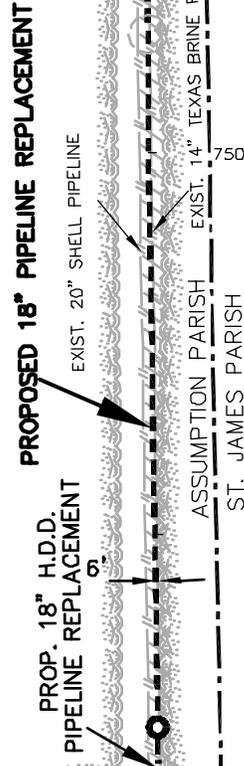
**FOR EXC. & BACKFILL STA. 618+93 TO 771+77  
 PLAN & PROFILE SEE SHEET 36 OF 59 SEC. "E-E"**

**NOTE:**  
 NO ADDITIONAL WORK SPACE IS REQ'D. FOR H.D.D. AND BACK STRINGING OF PIPE. ALL WORK TO BE DONE IN TEMP. R/W.

**FOR H.D.D. PLAN & PROFILE SEE SHEET 45 OF 59**

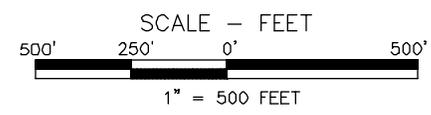
WOODS & SWAMP

WOODS & SWAMP



**WETLAND IMPACTS THIS SHEET = 3.72 ACRES**

- DENOTES FORESTED WETLANDS (CT) (±0.85 ACRES THIS SHEET (PERM. IMPACTS))
- DENOTES EMERGENT WETLANDS (±2.87 ACRES THIS SHEET) (TEMP. IMPACTS)
- DENOTES SECTION 10 WATERS (±0.21 ACRES THIS SHEET)



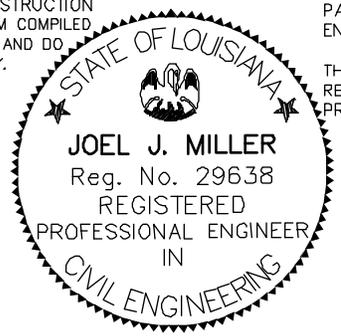
**MATCH LINE STA. 729+88**

**NOTE:**  
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\* SEE SHEET 59 OF 59 FOR GENERAL NOTES AND REFERENCES.

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 Miller Engineers & Associates, Inc.

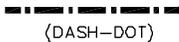
**TEXAS BRINE COMPANY, LLC**  
**PERMIT APPLICATION FOR PROPOSED 18" x 64,548' PIPELINE REPLACEMENT**  
**GENERAL LAYOUT 12 OF 20**  
 ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA  
 M.E. & A. DWG. NO. 13345-1, SHEET 18 OF 59

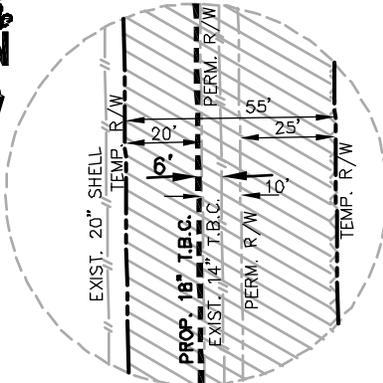
REV.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
2	5-31-16	TD SHOW HATCHING FOR IMPACTS	REK	JJM	JJM

**ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA**  
 SEC. 32, 80, 119, 120, 165 & 127, T14S-R15E SEC. 76, 69, 68, 61, 60 & 51 T13S-R15E, SEC. 62 & 50, T12S-R15E

**MATCH LINE STA. 795+87**

**LEGEND:**

	H.D.D.
	OPEN CUT



**R/W DETAIL**  
STA. 618+93 TO STA. 771+77

FOR H.D.D. PLAN & PROFILE  
SEE SHEET 46 OF 59

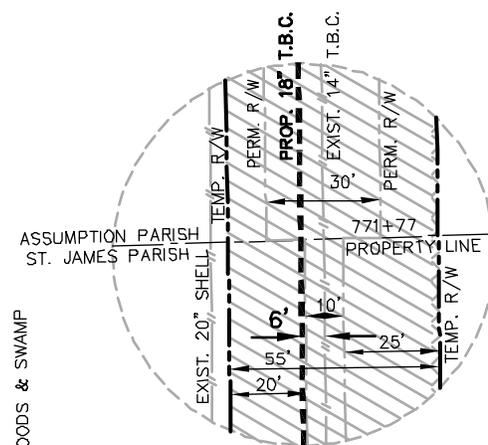
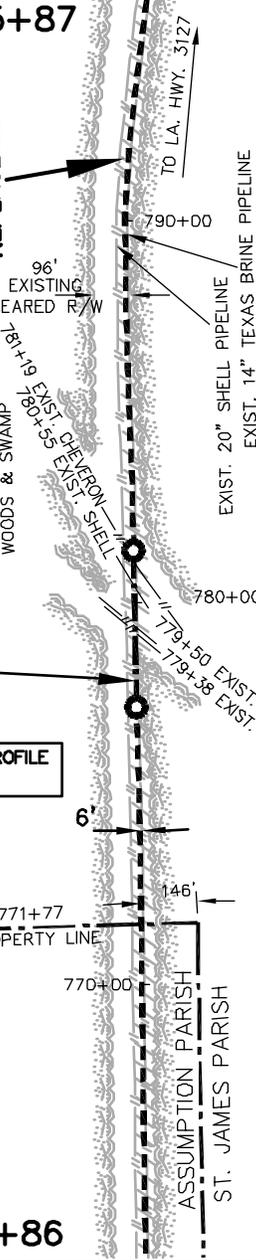
FOR EXC. & BACKFILL STA. 771+77 TO 983+00  
PLAN & PROFILE SEE SHEET 37 OF 59 SEC. "F-F"

ST. JAMES PARISH  
ASSUMPTION PARISH  
PROPERTY LINE

FOR EXC. & BACKFILL STA. 618+93 TO 771+77  
PLAN & PROFILE SEE SHEET 36 OF 59 SEC. "E-E"

**PROP. 18" PIPE REPLACEMENT**

**PROP. 18" H.D.D. PIPELINE REPLACEMENT**

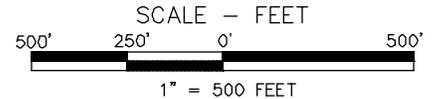


**R/W DETAIL**  
STA. 771+77 TO STA. 983+00

**WETLAND IMPACTS THIS SHEET = 4.95 ACRES**

-  DENOTES FORESTED WETLANDS (CT) (±1.03 ACRES THIS SHEET (PERM. IMPACTS))
-  DENOTES EMERGENT WETLANDS (±3.14 ACRES THIS SHEET) (TEMP. IMPACTS)

**NOTE:**  
NO ADDITIONAL WORK SPACE IS REQ'D.  
FOR H.D.D. AND BACK STRINGING OF PIPE.  
ALL WORK TO BE DONE IN TEMP. R/W.



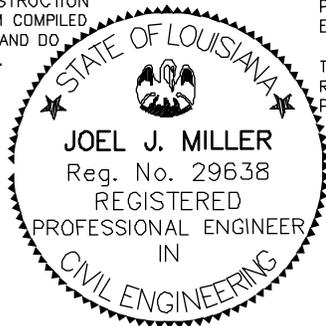
**MATCH LINE STA. 762+86**

**NOTE:**  
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\* SEE SHEET 59 OF 59 FOR GENERAL NOTES AND REFERENCES.

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PREPARED BY:



Miller Engineers & Associates, Inc.

**TEXAS BRINE COMPANY, LLC**

**PERMIT APPLICATION FOR PROPOSED 18" x 64,548' PIPELINE REPLACEMENT**  
**GENERAL LAYOUT 13 OF 20**

ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA

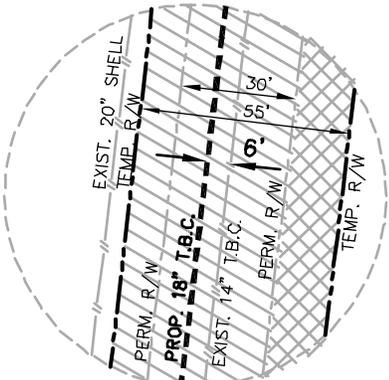
REV.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
2	5-31-16	TO SHOW HATCHING FOR IMPACTS	REK	JJM	JJM

M.E. & A. DWG. NO. 13345-1, SHEET 19 OF 59

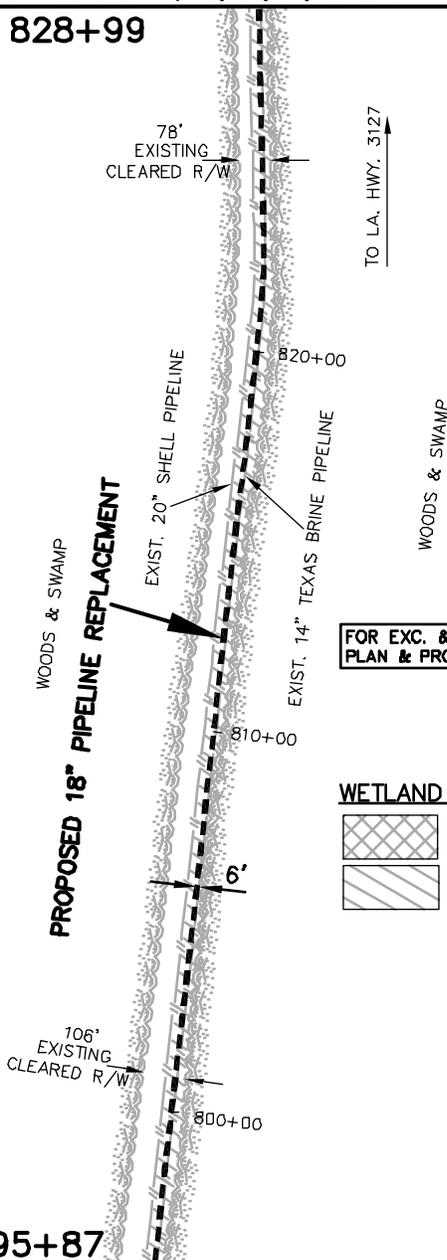
MATCH LINE STA. 828+99

**LEGEND:**

-  H.D.D.
- (DASH-DOT)
-  OPEN CUT
- (DASHED)



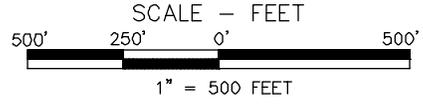
**R/W DETAIL**  
 STA. 771+77 TO STA. 983+00



FOR EXC. & BACKFILL STA. 771+77 TO 983+00  
 PLAN & PROFILE SEE SHEET 37 OF 59 SEC. "F-F"

**WETLAND IMPACTS THIS SHEET = 4.03 ACRES**

-  DENOTES FORESTED WETLANDS (CT)  
 (±1.08 ACRES THIS SHEET (PERM. IMPACTS))
-  DENOTES EMERGENT WETLANDS  
 (±2.95 ACRES THIS SHEET) (TEMP. IMPACTS)



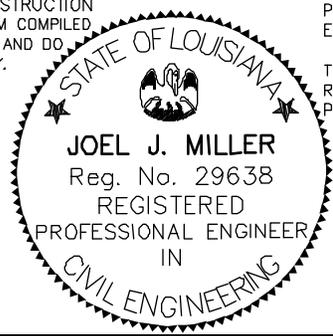
MATCH LINE STA. 795+87

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\* SEE SHEET 59 OF 59 FOR GENERAL NOTES AND REFERENCES.

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PREPARED BY:  
  
 Miller Engineers & Associates, Inc.

 **TEXAS BRINE COMPANY, LLC**

PERMIT APPLICATION FOR  
 PROPOSED 18" x 64,548'  
 PIPELINE REPLACEMENT  
**GENERAL LAYOUT 14 OF 20**  
 ASSUMPTION, LAFOURCHE &  
 & ST. JAMES PARISHES, LOUISIANA

M.E. & A. DWG. NO. 13345-1, SHEET 20 OF 59

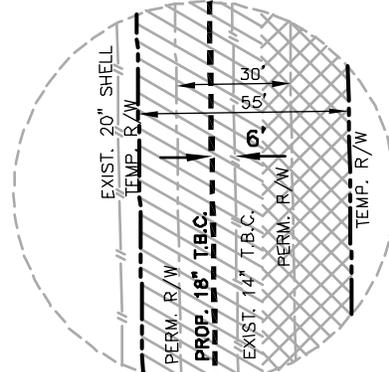
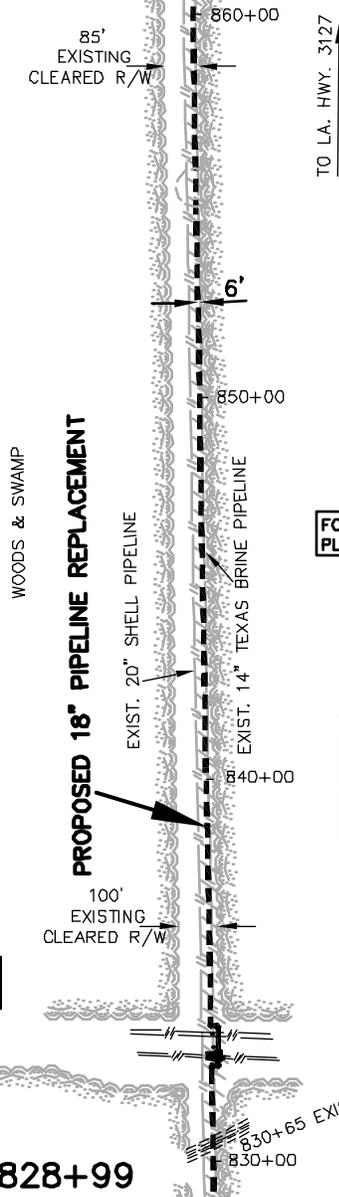
REV.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
1	5-31-16	TO SHOW HATCHING FOR IMPACTS	REK	JJM	JJM

**ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA**  
 SEC. 32, 80, 119, 120, 165 & 127, T14S-R15E SEC. 76, 69, 68, 61, 60 & 51 T13S-R15E, SEC. 62 & 50, T12S-R15E

**MATCH LINE STA. 861+97**



<b>LEGEND:</b>	
(SOLID)	ABOVE GRD.
(DASH-DOT)	H.D.D.
(DASHED)	OPEN CUT
(DASHED)	



**R/W DETAIL**  
 STA. 771+77 TO STA. 983+00

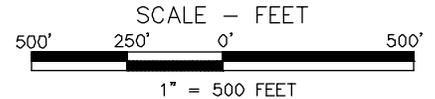
**FOR EXC. & BACKFILL STA. 771+77 TO 983+00  
 PLAN & PROFILE SEE SHEET 37 OF 59 SEC. "F-F"**

**WETLAND IMPACTS THIS SHEET = 4.03 ACRES**

- DENOTES FORESTED WETLANDS (CT)  
 (±1.30 ACRES THIS SHEET (PERM. IMPACTS))
- DENOTES EMERGENT WETLANDS  
 (±2.73 ACRES THIS SHEET (TEMP. IMPACTS))

**FOR ABOVE GROUND PIPING PLAN & PROFILE AND  
 PLATFORM EXPANSION SEE SHEET 47 & 48 OF 59**

- 833+55 EXIST. UCAR PIPELINE
- 833+44 EXIST. UCAR PIPELINE
- 832+96 TEE ON VALVE PLATFORM
- 832+94 EXIST. OXY PIPELINE
- 832+88 EXIST. OXY PIPELINE



**MATCH LINE STA. 828+99**

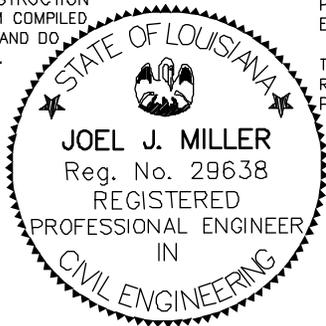
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\* SEE SHEET 59 OF 59 FOR GENERAL NOTES AND REFERENCES.

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PREPARED BY:



Miller Engineers & Associates, Inc.



**TEXAS BRINE  
 COMPANY, LLC**

**PERMIT APPLICATION FOR  
 PROPOSED 18" x 64,548'  
 PIPELINE REPLACEMENT  
 GENERAL LAYOUT 15 OF 20**

ASSUMPTION, LAFOURCHE &  
 & ST. JAMES PARISHES, LOUISIANA

REV.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
1	5-31-16	TO SHOW HATCHING FOR IMPACTS	REK	JJM	JJM

M.E. & A. DWG. NO. 13345-1, SHEET 21 OF 59

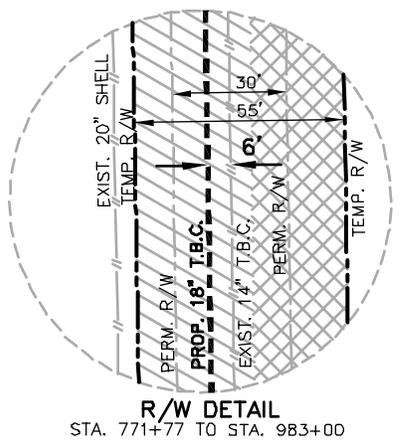
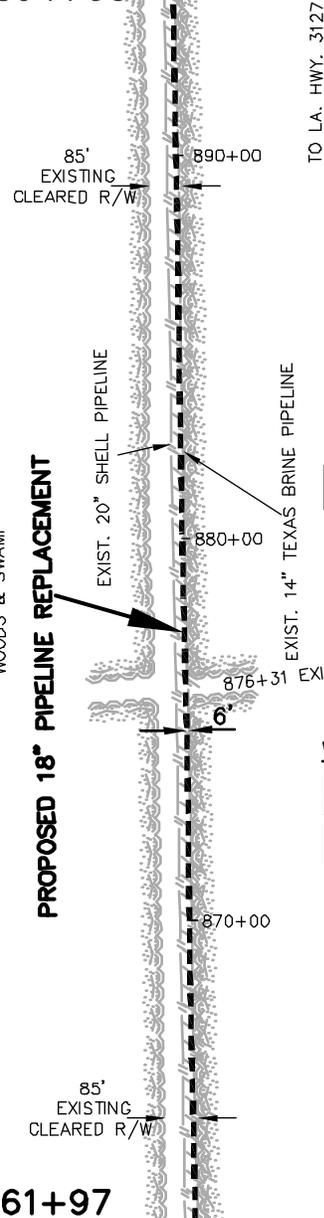
**ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA**  
 SEC. 32, 80, 119, 120, 165 & 127, T14S-R15E SEC. 76, 69, 68, 61, 60 & 51 T13S-R15E, SEC. 62 & 50, T12S-R15E

**MATCH LINE STA. 894+95**



**LEGEND:**

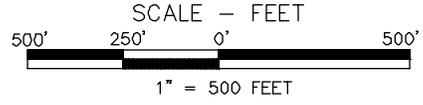
- H.D.D. (DASH-DDT)
- OPEN CUT (DASHED)



**FOR EXC. & BACKFILL STA. 771+77 TO 983+00  
 PLAN & PROFILE SEE SHEET 37 OF 59 SEC. "F-F"**

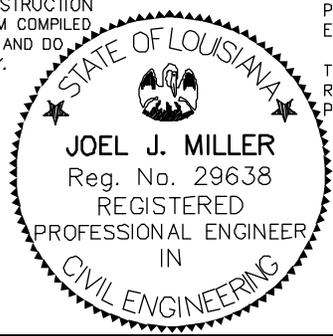
**WETLAND IMPACTS THIS SHEET = 4.01 ACRES**

- DENOTES FORESTED WETLANDS (CT) (±1.85 ACRES THIS SHEET (PERM. IMPACTS))
- DENOTES EMERGENT WETLANDS (±2.16 ACRES THIS SHEET) (TEMP. IMPACTS)



**MATCH LINE STA. 861+97**

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 \* SEE SHEET 59 OF 59 FOR GENERAL NOTES AND REFERENCES.



PREPARED BY:  
  
 Miller Engineers & Associates, Inc.

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**TEXAS BRINE COMPANY, LLC**  
**PERMIT APPLICATION FOR PROPOSED 18" x 64,548' PIPELINE REPLACEMENT**  
**GENERAL LAYOUT 16 OF 20**  
 ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA  
 M.E. & A. DWG. NO. 13345-1, SHEET 22 OF 59

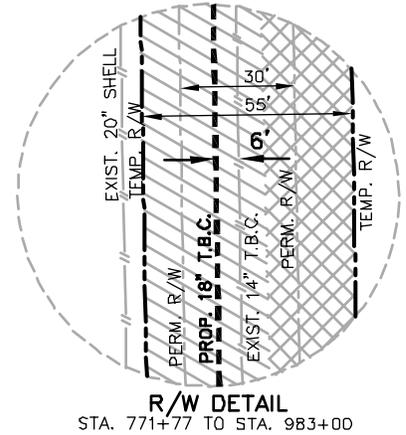
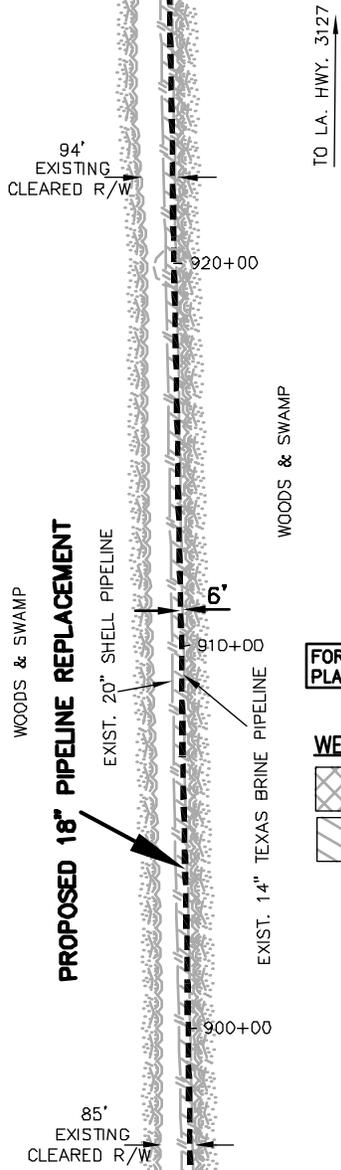
REV.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
1	5-31-16	TO SHOW HATCHING FOR IMPACTS	REK	JJM	JJM

**ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA**  
 SEC. 32, 80, 119, 120, 165 & 127, T14S-R15E SEC. 76, 69, 68, 61, 60 & 51 T13S-R15E, SEC. 62 & 50, T12S-R15E

**MATCH LINE STA. 927+93**



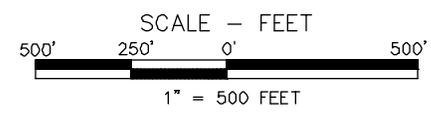
LEGEND:	
--- (DASH-DOT) ---	H.D.D.
--- (DASHED) ---	OPEN CUT



**FOR EXC. & BACKFILL STA. 771+77 TO 983+00  
 PLAN & PROFILE SEE SHEET 37 OF 59 SEC. "F-F"**

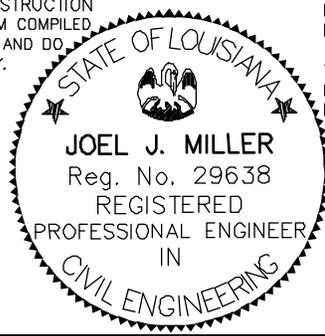
**WETLAND IMPACTS THIS SHEET = 4.01 ACRES**

- DENOTES FORESTED WETLANDS (CT)  
(±1.54 ACRES THIS SHEET) (PERM. IMPACTS)
- DENOTES EMERGENT WETLANDS  
(±2.47 ACRES THIS SHEET) (TEMP. IMPACTS)



**MATCH LINE STA. 894+95**

**NOTE:**  
 THESE DRAWING WERE PREPARED SOLELY FOR ACQUISITION OF REGULATORY PERMITS AND DO NOT REPRESENT ENGINEERING OR CONSTRUCTION PLANS. PROPERTY LINES SHOWN ARE FROM COMPILED DATA ACQUIRED FROM ASSESSOR RECORDS AND DO NOT REPRESENT A BOUNDARY SURVEY.  
 \* SEE SHEET 59 OF 59 FOR GENERAL NOTES AND REFERENCES.



PREPARED BY:  
  
 Miller Engineers & Associates, Inc.

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**TEXAS BRINE COMPANY, LLC**

---

PERMIT APPLICATION FOR  
 PROPOSED 18" x 64,548'  
 PIPELINE REPLACEMENT  
**GENERAL LAYOUT 17 OF 20**  
 ASSUMPTION, LAFOURCHE &  
 & ST. JAMES PARISHES, LOUISIANA

REV.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
1	5-31-16	TD SHOW HATCHING FOR IMPACTS	REK	JJM	JJM

M.E. & A. DWG. NO. 13345-1, SHEET 23 OF 59

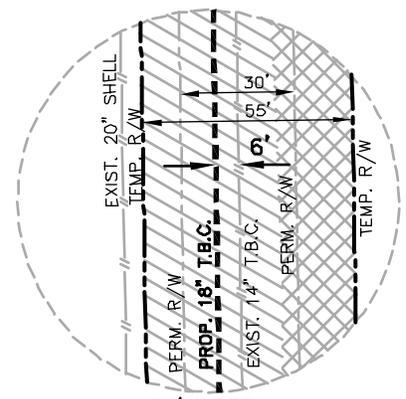
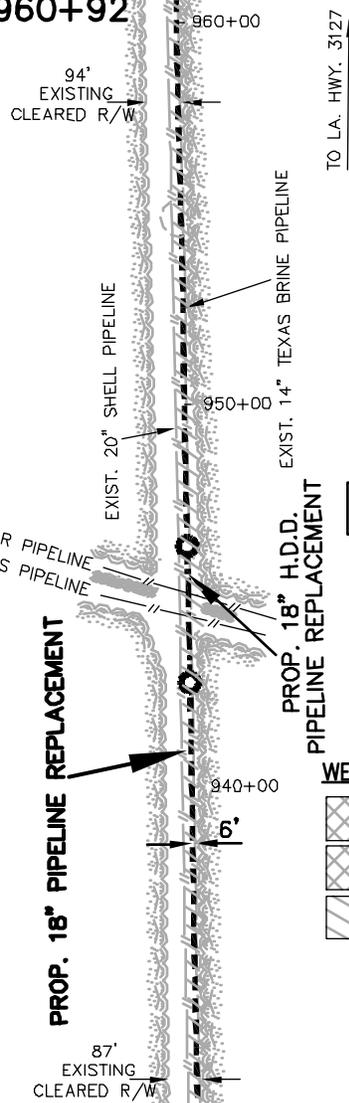
**ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA**  
 SEC. 32, 80, 119, 120, 165 & 127, T14S-R15E SEC. 76, 69, 68, 61, 60 & 51 T13S-R15E, SEC. 62 & 50, T12S-R15E

**MATCH LINE STA. 960+92**



**LEGEND:**

- H.D.D.
- OPEN CUT



**R/W DETAIL**  
 STA. 771+77 TO STA. 983+00

**FOR H.D.D. PLAN & PROFILE**  
 SEE SHEET 49 OF 59

**FOR EXC. & BACKFILL STA. 771+77 TO 983+00**  
 PLAN & PROFILE SEE SHEET 37 OF 59 SEC. "F-F"

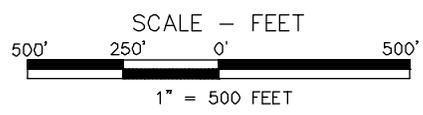
945+27 EXIST. NUSTAR PIPELINE  
 944+65 EXIST. ACADIAN GAS PIPELINE

WOODS & SWAMP

**WETLAND IMPACTS THIS SHEET = 4.33 ACRES**

- DENOTES FORESTED WETLANDS (BLH) (±0.98 ACRES THIS SHEET (PERM. IMPACTS))
- DENOTES FORESTED WETLANDS (CT) (±0.66 ACRES THIS SHEET (PERM. IMPACTS))
- DENOTES EMERGENT WETLANDS (±2.69 ACRES THIS SHEET) (TEMP. IMPACTS)

**NOTE:**  
 NO ADDITIONAL WORK SPACE IS REQ'D.  
 FOR H.D.D. AND BACK STRINGING OF PIPE.  
 ALL WORK TO BE DONE IN TEMP. R/W.



**MATCH LINE STA. 927+93**

**NOTE:**  
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\* SEE SHEET 59 OF 59 FOR GENERAL NOTES AND REFERENCES.

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PREPARED BY:

Miller Engineers & Associates, Inc.

STATE OF LOUISIANA

**JOEL J. MILLER**  
 Reg. No. 29638  
 REGISTERED  
 PROFESSIONAL ENGINEER  
 IN  
 CIVIL ENGINEERING

**TEXAS BRINE COMPANY, LLC**

---

PERMIT APPLICATION FOR  
 PROPOSED 18" x 64,548'  
 PIPELINE REPLACEMENT  
**GENERAL LAYOUT 18 OF 20**  
 ASSUMPTION, LAFOURCHE &  
 & ST. JAMES PARISHES, LOUISIANA

---

M.E. & A. DWG. NO. 13345-1, SHEET 24 OF 59

REV.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
2	5-31-16	TO SHOW HATCHING FOR IMPACTS	REK	JJM	JJM

**ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA**  
 SEC. 32, 80, 119, 120, 165 & 127, T14S-R15E SEC. 76, 69, 68, 61, 60 & 51 T13S-R15E, SEC. 62 & 50, T12S-R15E

**MATCH LINE STA. 994+66**

**LEGEND:**

- H.D.D.
- (DASH-DOT)
- OPEN CUT
- (DASHED)

125'x125' WORK AREA FOR H.D.D. RIG (SEE SHEET 29 OF 59) (TEMP. LAMINATED TIMBER MATS)

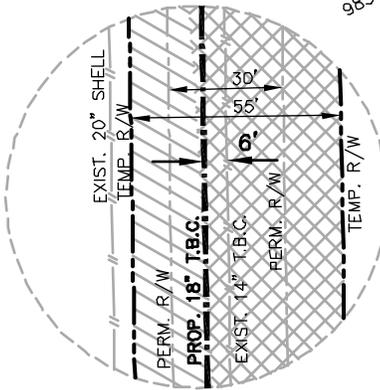
175'x200' WORK AREA FOR INTERNAL BLASTING & PAINTING / PUSH SITE (SEE SHEET 30 OF 59)

12' x 850' TEMPORARY WORK AREA FOR H.D.D. PIPE STRING (SEE SHEET 29 OF 59)

FOR H.D.D. PLAN & PROFILE SEE SHEET 50 OF 59

**PROP. 18" H.D.D. PIPELINE REPLACEMENT**

FOR EXC. & BACKFILL STA. 771+77 TO 983+00 PLAN & PROFILE SEE SHEET 37 OF 59 SEC. "F-F"



**R/W DETAIL**  
STA. 983+00 TO STA. 999+65

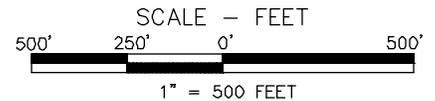
WOODS & SWAMP

**PROP. 18" PIPE REPLACEMENT**

**WETLAND IMPACTS THIS SHEET = 4.54 ACRES**

- DENOTES FORESTED WETLANDS (BLH) (±2.28 ACRES THIS SHEET (PERM. IMPACTS))
- DENOTES EMERGENT WETLANDS (±2.26 ACRES THIS SHEET) (TEMP. IMPACTS)
- DENOTES NON WETLANDS (±0.26 ACRES THIS SHEET)
- DENOTES OTHER WATERS (±0.07 ACRES THIS SHEET)

**NOTE:**  
NO ADDITIONAL WORK SPACE IS REQ'D. FOR H.D.D. AND BACK STRINGING OF PIPE. ALL WORK TO BE DONE IN TEMP. R/W.



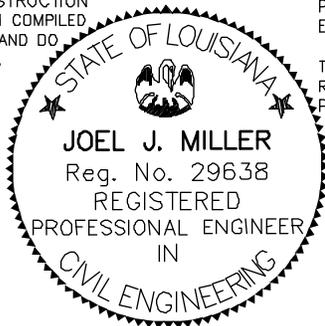
**MATCH LINE STA. 960+92**

**NOTE:**  
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\* SEE SHEET 59 OF 59 FOR GENERAL NOTES AND REFERENCES.

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PREPARED BY:



Miller Engineers & Associates, Inc.



**PERMIT APPLICATION FOR PROPOSED 18" x 64,548' PIPELINE REPLACEMENT**  
**GENERAL LAYOUT 19 OF 20**

ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA

REV.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
2	5-31-16	TO SHOW HATCHING FOR IMPACTS	REK	JJM	JJM

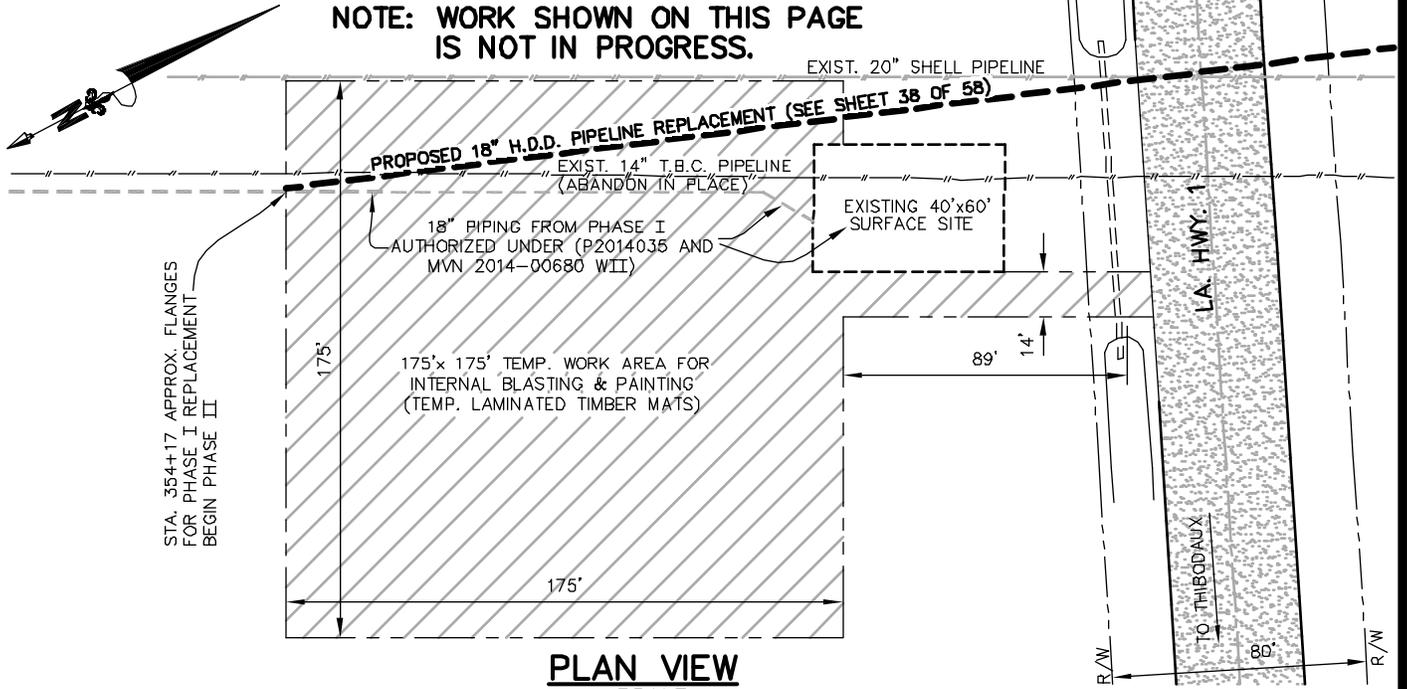
M.E. & A. DWG. NO. 13345-1, SHEET 25 OF 59



**ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA**

SEC. 32, 80, 119, 120, 165 & 127, T14S-R15E SEC. 76, 69, 68, 61, 60 & 51 T13S-R15E, SEC. 62 & 50, T12S-R15E

**NOTE: WORK SHOWN ON THIS PAGE IS NOT IN PROGRESS.**



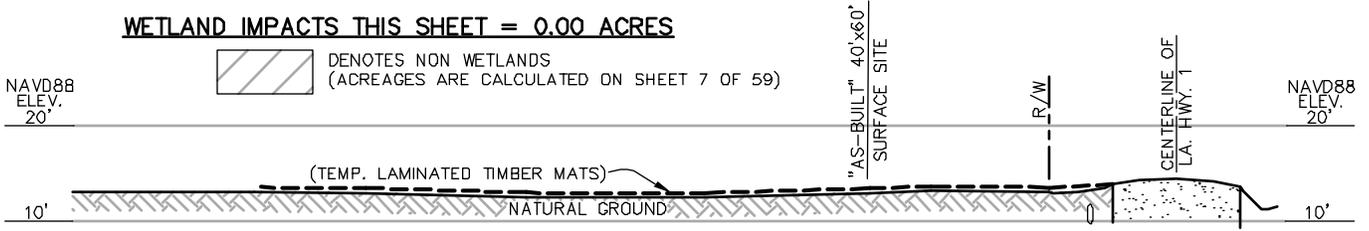
**PLAN VIEW**



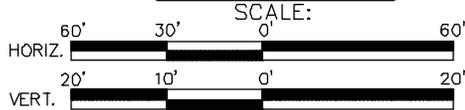
**WETLAND IMPACTS THIS SHEET = 0.00 ACRES**

DIAGONAL HATCHING DENOTES NON WETLANDS (ACREAGES ARE CALCULATED ON SHEET 7 OF 59)

NAVD88 ELEV. 20'



**PROFILE VIEW**



**NOTE:**

TEMP. LAMINATED MATS REQ'D. ON NATURAL GRD. (NO EXC. OR FILL REQ'D.) FOR CONSTRUCTION. AND TO BE REMOVED AFTER CONSTRUCTION.

**SEE SHEET 38 OF 59 FOR H.D.D. PLAN & PROFILE  
Sta. 354+17 To Sta. 365+45**

**NOTE:**

THESE DRAWING WERE PREPARED SOLELY FOR ACQUISITION OF REGULATORY PERMITS AND DO NOT REPRESENT ENGINEERING OR CONSTRUCTION PLANS. PROPERTY LINES SHOWN ARE FROM COMPILED DATA ACQUIRED FROM ASSESSOR RECORDS AND DO NOT REPRESENT A BOUNDARY SURVEY.

\* SEE SHEET 59 OF 59 FOR GENERAL NOTES AND REFERENCES.

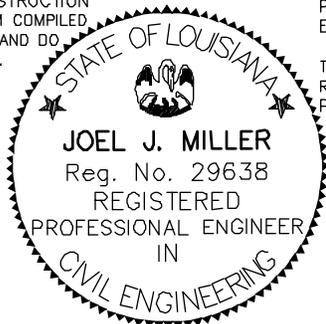
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PREPARED BY:



Miller Engineers & Associates, Inc.



**TEXAS BRINE COMPANY, LLC**

**PERMIT APPLICATION FOR PROPOSED 18" x 64,548' PIPELINE REPLACEMENT PLAN & PROFILE SHEET 1 OF 11**

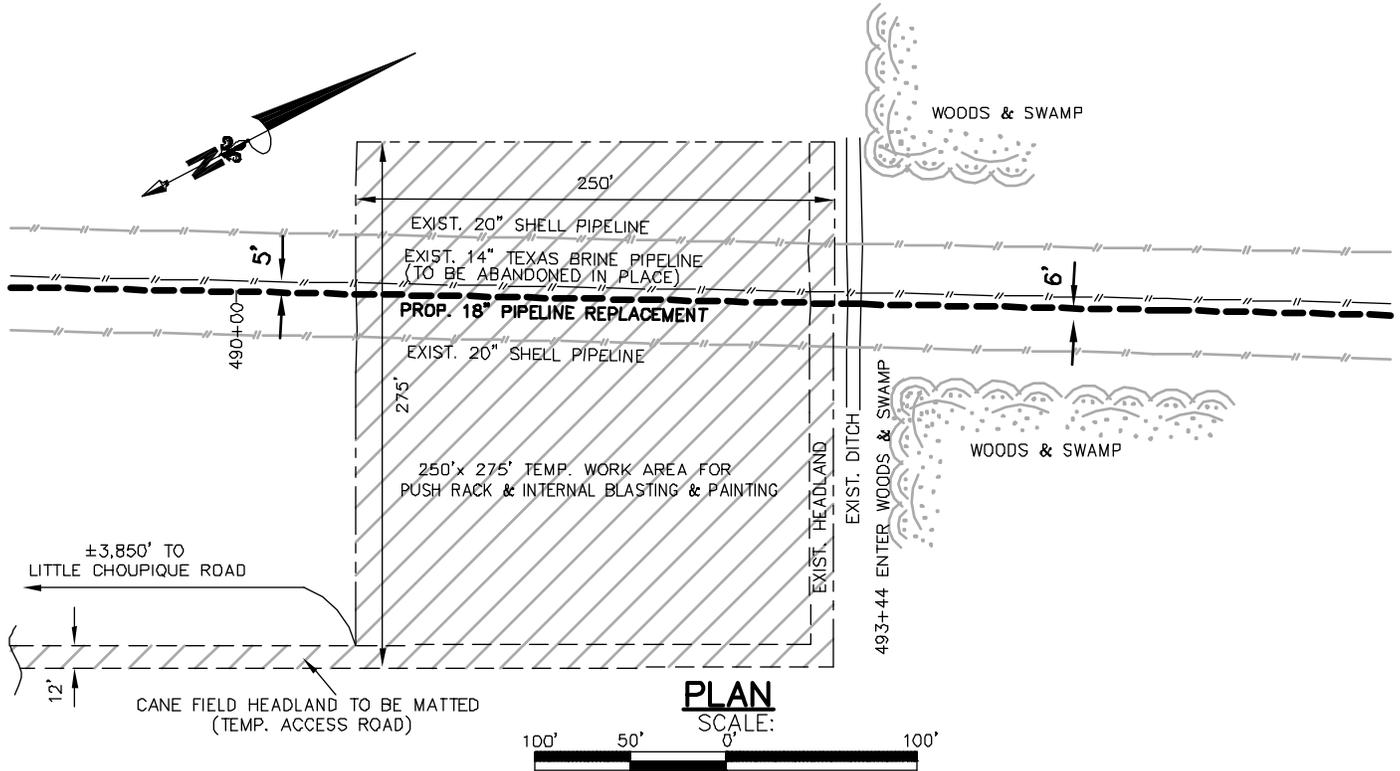
ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA

REV.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
1	5-31-16	TO SHOW HATCHING FOR IMPACTS	REK	JJM	JJM

M.E. & A. DWG. NO. 13345-1, SHEET 27 OF 59

**ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA**

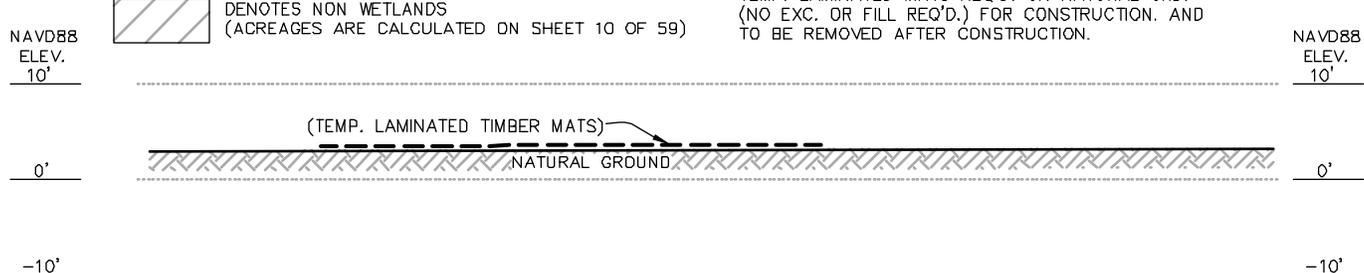
SEC. 32, 80, 119, 120, 165 & 127, T14S-R15E SEC. 76, 69, 68, 61, 60 & 51 T13S-R15E, SEC. 62 & 50, T12S-R15E



**PLAN**  
SCALE:

**WETLAND IMPACTS THIS SHEET = 0.00 ACRES**

**NOTE:**  
TEMP. LAMINATED MATS REQ'D. ON NATURAL GRD. (NO EXC. OR FILL REQ'D.) FOR CONSTRUCTION. AND TO BE REMOVED AFTER CONSTRUCTION.



**PROFILE**  
SCALE:

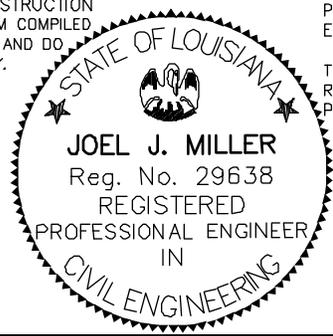
**NOTE: WORK SHOWN ON THIS PAGE IS NOT IN PROGRESS.**

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\* SEE SHEET 59 OF 59 FOR GENERAL NOTES AND REFERENCES.



**TEXAS BRINE COMPANY, LLC**

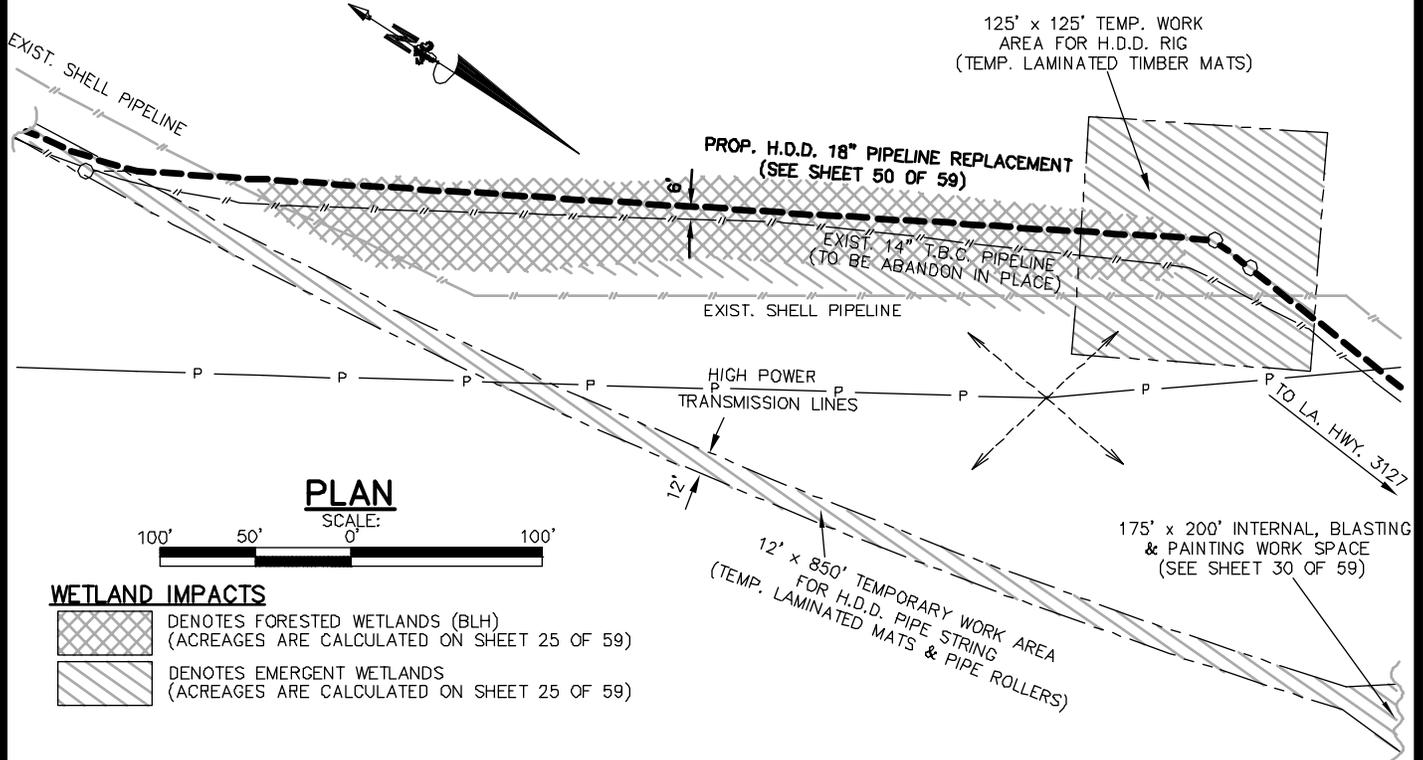
PERMIT APPLICATION FOR PROPOSED 18" x 64,548' PIPELINE REPLACEMENT  
**PLAN & PROFILE SHEET 2 OF 11**  
ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA

M.E. & A. DWG. NO. 13345-1, SHEET 28 OF 59

REV.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
1	5-31-16	TO SHOW HATCHING FOR IMPACTS	REK	JJM	JJM

**ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA**

SEC. 32, 80, 119, 120, 165 & 127, T14S-R15E SEC. 76, 69, 68, 61, 60 & 51 T13S-R15E, SEC. 62 & 50, T12S-R15E



**PLAN**



**WETLAND IMPACTS**

- DENOTES FORESTED WETLANDS (BLH)  
(ACREAGES ARE CALCULATED ON SHEET 25 OF 59)
- DENOTES EMERGENT WETLANDS  
(ACREAGES ARE CALCULATED ON SHEET 25 OF 59)

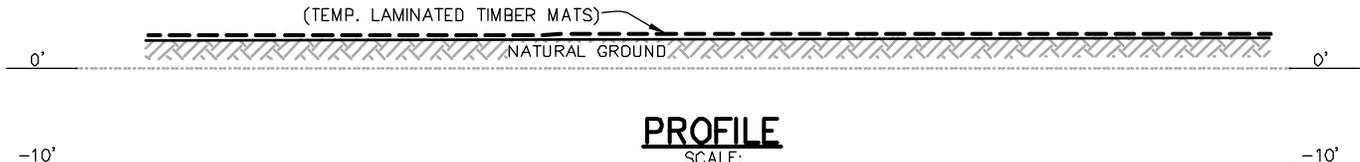
**NOTE: WORK SHOWN ON THIS PAGE IS NOT IN PROGRESS.**

**NOTE:**

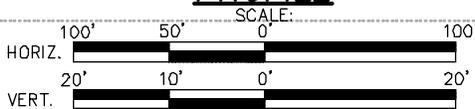
TEMP. LAMINATED MATS REQ'D. ON NATURAL GRD. (NO EXC. OR FILL REQ'D.) FOR CONSTRUCTION. AND TO BE REMOVED AFTER CONSTRUCTION.

NAVD88  
ELEV.  
10'

NAVD88  
ELEV.  
10'



**PROFILE**



**SEE SHEET 50 OF 59 FOR H.D.D. PLAN & PROFILE**

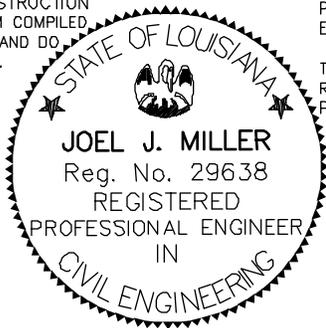
**NOTE:**

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\* SEE SHEET 59 OF 59 FOR GENERAL NOTES AND REFERENCES.

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PREPARED BY:



Miller Engineers & Associates, Inc.



**TEXAS BRINE COMPANY, LLC**

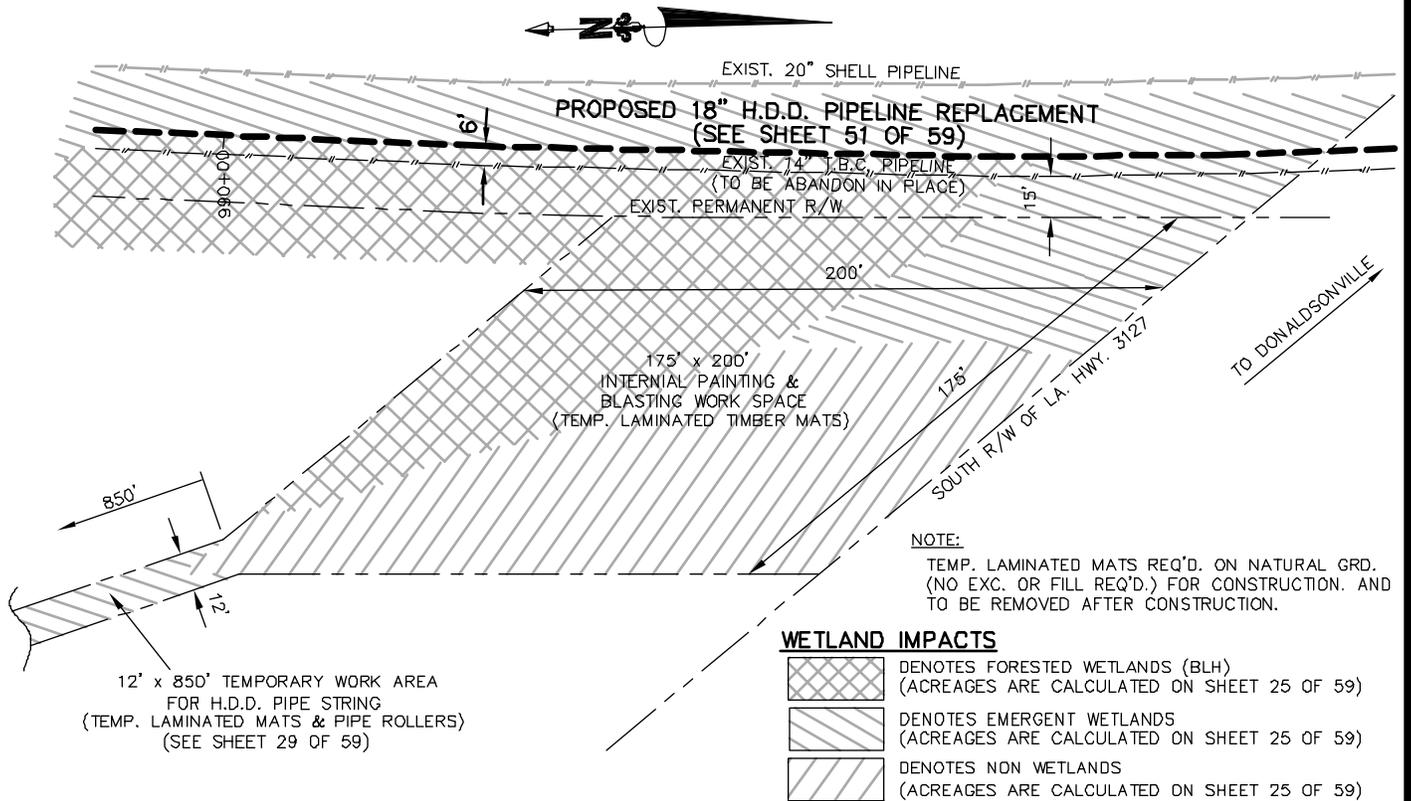
**PERMIT APPLICATION FOR PROPOSED 18" x 64,548' PIPELINE REPLACEMENT PLAN & PROFILE SHEET 3 OF 11**

ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA

REV.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
1	5-31-16	TO SHOW HATCHING FOR IMPACTS	REK	JJM	JJM

M.E. & A. DWG. NO. 13345-1, SHEET 29 OF 59

**ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA**  
 SEC. 32, 80, 119, 120, 165 & 127, T14S-R15E SEC. 76, 69, 68, 61, 60 & 51 T13S-R15E, SEC. 62 & 50, T12S-R15E

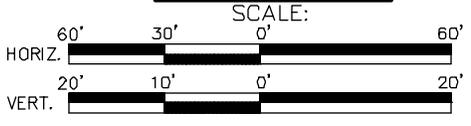
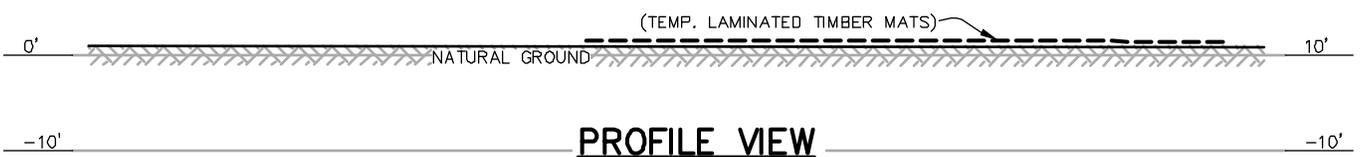


**NOTE:**  
 TEMP. LAMINATED MATS REQ'D. ON NATURAL GRD. (NO EXC. OR FILL REQ'D.) FOR CONSTRUCTION. AND TO BE REMOVED AFTER CONSTRUCTION.

**WETLAND IMPACTS**

	DENOTES FORESTED WETLANDS (BLH) (ACREAGES ARE CALCULATED ON SHEET 25 OF 59)
	DENOTES EMERGENT WETLANDS (ACREAGES ARE CALCULATED ON SHEET 25 OF 59)
	DENOTES NON WETLANDS (ACREAGES ARE CALCULATED ON SHEET 25 OF 59)

NAVD88 ELEV. 10' NAVD88 ELEV. 20'



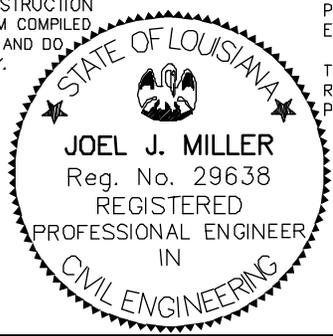
**SEE SHEET 51 OF 59 FOR H.D.D. PLAN & PROFILE**

**NOTE:**  
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 \* SEE SHEET 59 OF 59 FOR GENERAL NOTES AND REFERENCES.

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PREPARED BY:  
  
 Miller Engineers & Associates, Inc.

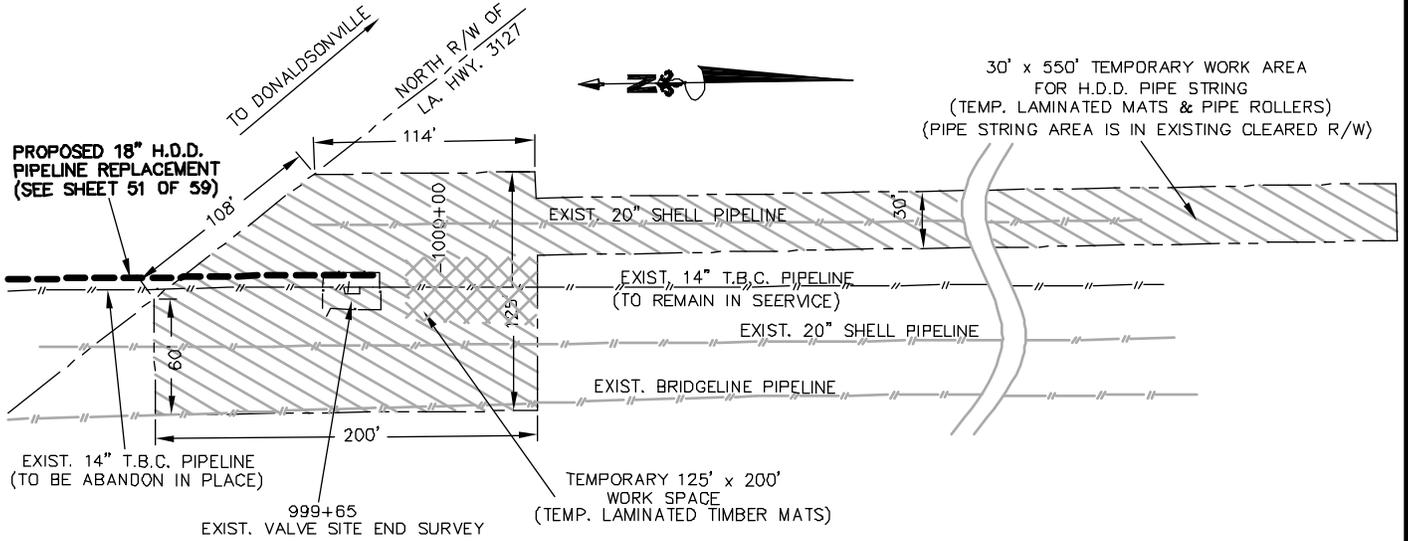


 <b>TEXAS BRINE COMPANY, LLC</b>
PERMIT APPLICATION FOR PROPOSED 18" x 64,548' PIPELINE REPLACEMENT <b>PLAN &amp; PROFILE</b> <b>SHEET 4 OF 11</b> ASSUMPTION, LAFOURCHE & & ST. JAMES PARISHES, LOUISIANA
M.E. & A. DWG. NO. 13345-1, SHEET 30 OF 59

REV.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
1	5-31-16	TO SHOW HATCHING FOR IMPACTS	REK	JJM	JJM

**ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA**

SEC. 32, 80, 119, 120, 165 & 127, T14S-R15E SEC. 76, 69, 68, 61, 60 & 51 T13S-R15E, SEC. 62 & 50, T12S-R15E



**WETLAND IMPACTS**

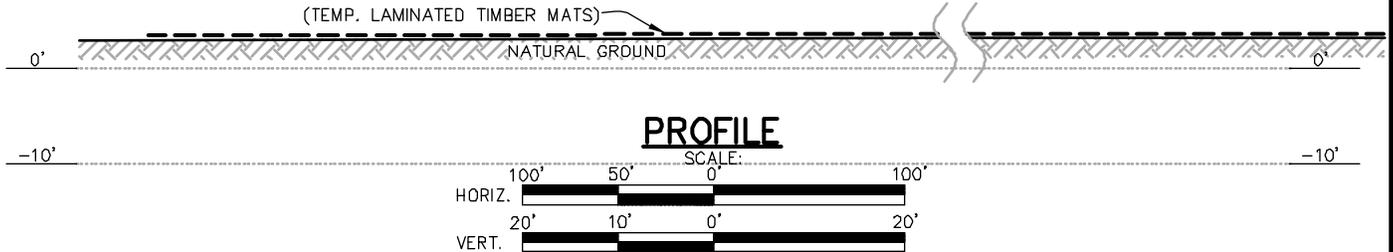
- DENOTES FORESTED WETLANDS (BLH)  
(ACREAGES ARE CALCULATED ON SHEET 26 OF 59)
- DENOTES EMERGENT WETLANDS  
(ACREAGES ARE CALCULATED ON SHEET 26 OF 59)

**NOTE: WORK SHOWN ON THIS PAGE IS NOT IN PROGRESS.**

**NOTE:**  
TEMP. LAMINATED MATS REQ'D. ON NATURAL GRD.  
(NO EXC. OR FILL REQ'D.) FOR CONSTRUCTION. AND  
TO BE REMOVED AFTER CONSTRUCTION.

NAVD88  
ELEV.  
10'

NAVD88  
ELEV.  
10'



**SEE SHEET 51 OF 59 FOR H.D.D. PLAN & PROFILE**

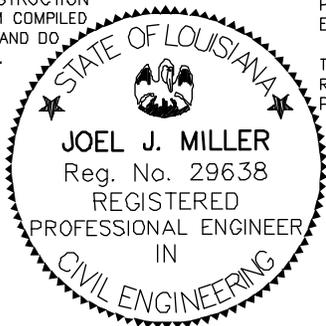
**NOTE:**  
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\* SEE SHEET 59 OF 59 FOR GENERAL NOTES AND REFERENCES.

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PREPARED BY:  
**ME & A**  
Miller Engineers & Associates, Inc.



**TEXAS BRINE COMPANY, LLC**

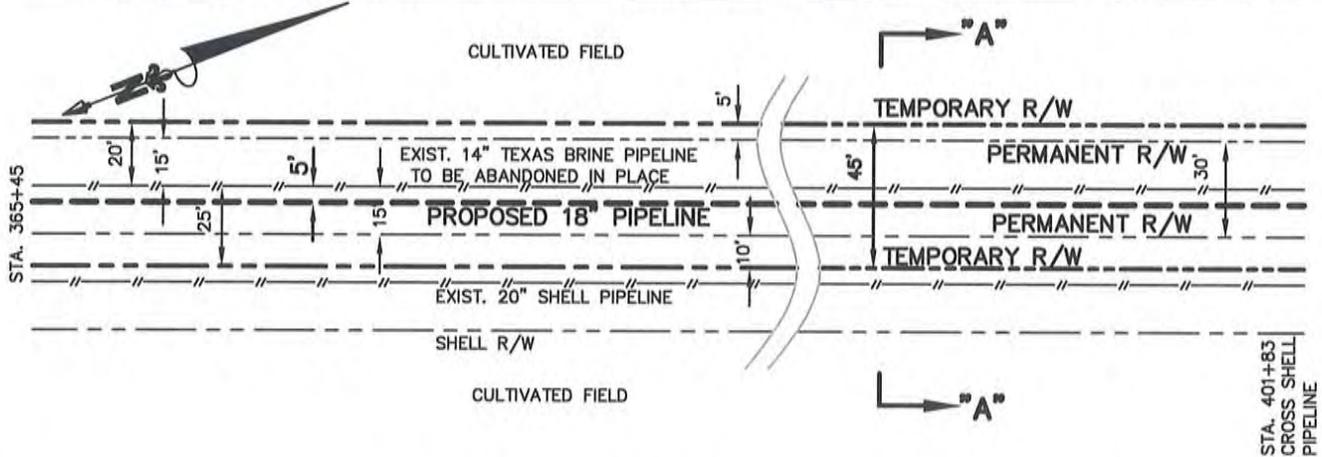
**PERMIT APPLICATION FOR PROPOSED 18" x 64,548' PIPELINE REPLACEMENT PLAN & PROFILE SHEET 5 OF 11**  
ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA

M.E. & A. DWG. NO. 13345-1, SHEET 31 OF 59

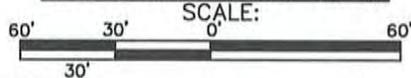
REV.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
1	5-31-16	TO SHOW HATCHING FOR IMPACTS	REK	JJM	JJM

**ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA**

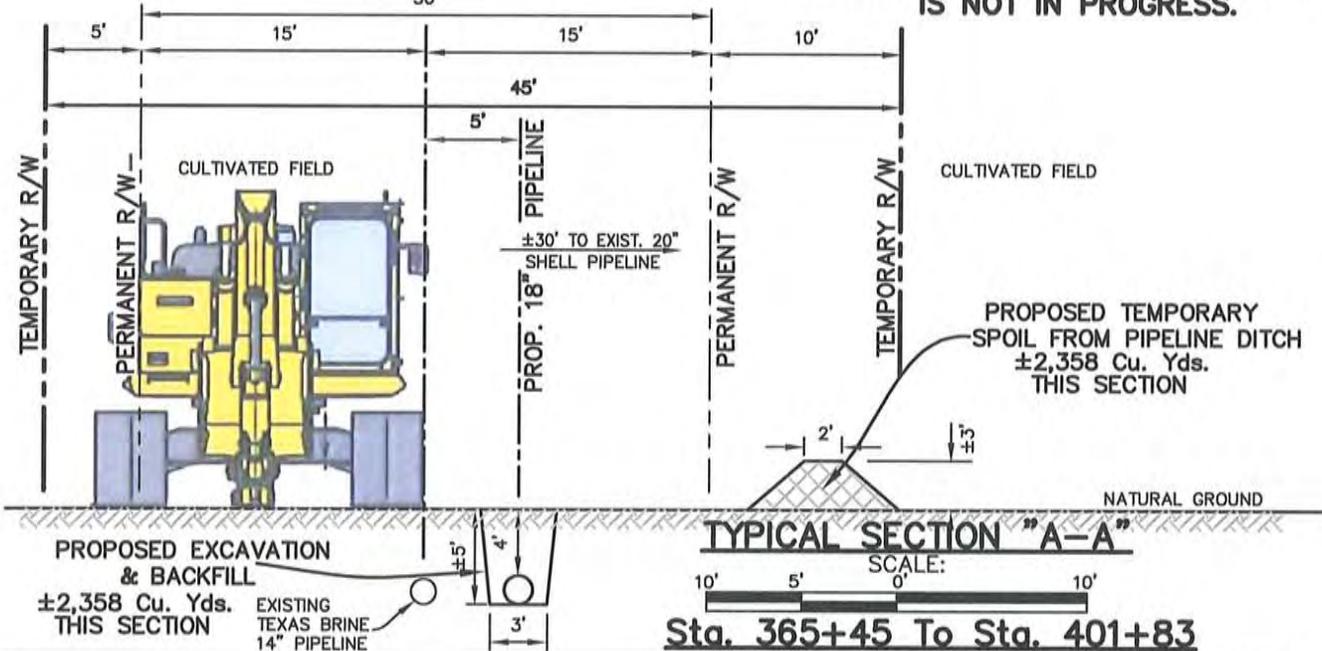
SEC. 32, 80, 119, 120, 165 & 127, T14S-R15E SEC. 76, 69, 68, 61, 60 & 51 T13S-R15E, SEC. 62 & 50, T12S-R15E



**TYPICAL PLAN VIEW**



**NOTE: WORK SHOWN ON THIS PAGE IS NOT IN PROGRESS.**



**TYPICAL SECTION "A-A"**

**Sta. 365+45 To Sta. 401+83**

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PREPARED BY:



Miller Engineers & Associates, Inc.



**TEXAS BRINE COMPANY, LLC**

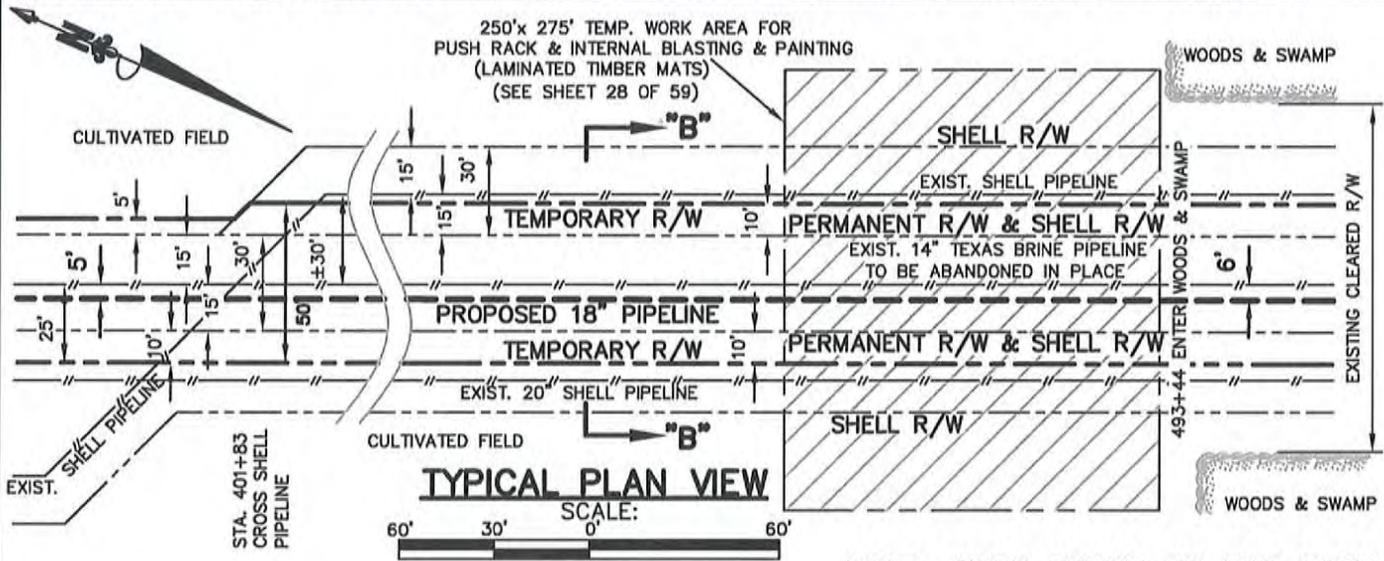
PERMIT APPLICATION FOR PROPOSED 18" x 64,548' PIPELINE REPLACEMENT  
**PLAN & PROFILE**  
**SHEET 6 OF 11**  
 ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA

REV.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
0	5-5-16	ISSUED DRAWINGS	REK	JJM	JJM

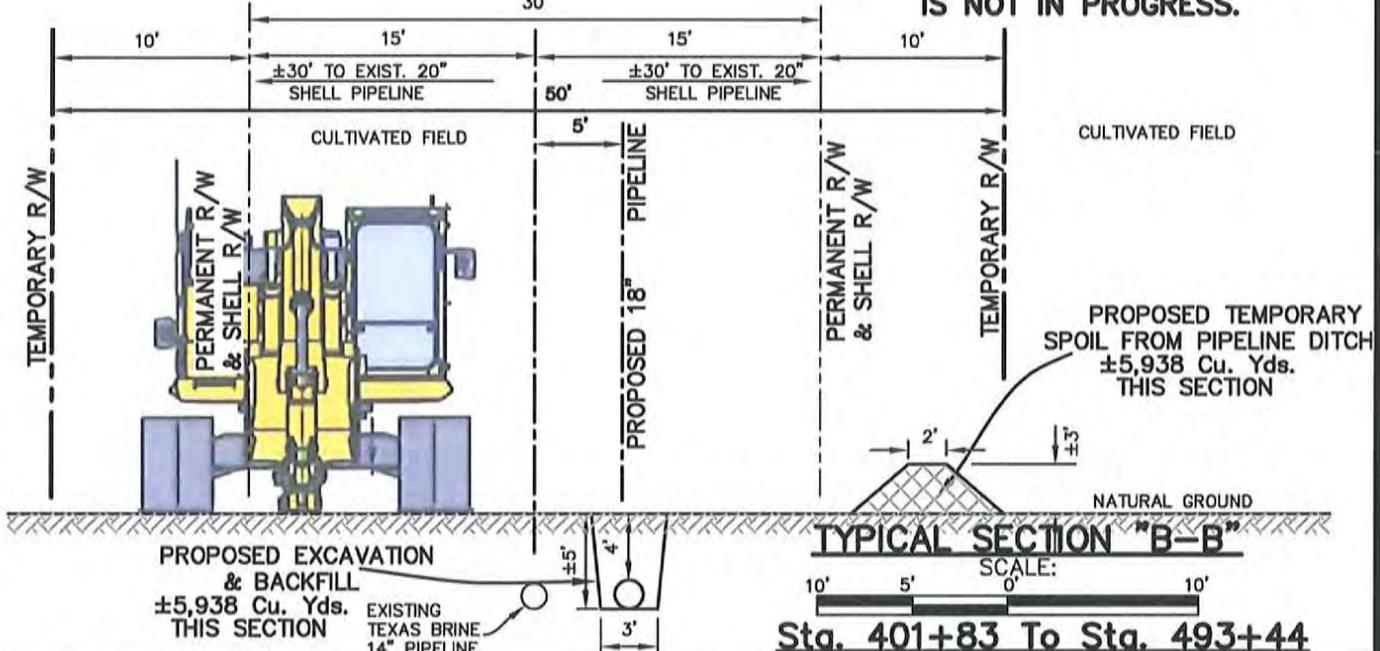
M.E. & A. DWG. NO. 13345-1, SHEET 32 OF 59

**ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA**

SEC. 32, 80, 119, 120, 165 & 127, T14S-R15E SEC. 76, 69, 68, 61, 60 & 51 T13S-R15E, SEC. 62 & 50, T12S-R15E



**NOTE: WORK SHOWN ON THIS PAGE IS NOT IN PROGRESS.**



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 \* SEE SHEET 59 OF 59 FOR GENERAL NOTES AND REFERENCES.

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PREPARED BY:  
 Miller Engineers & Associates, Inc.

STATE OF LOUISIANA  
  
**JOEL J. MILLER**  
 Reg. No. 29638  
 REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING  
 5-16-16

**TEXAS BRINE COMPANY, LLC**

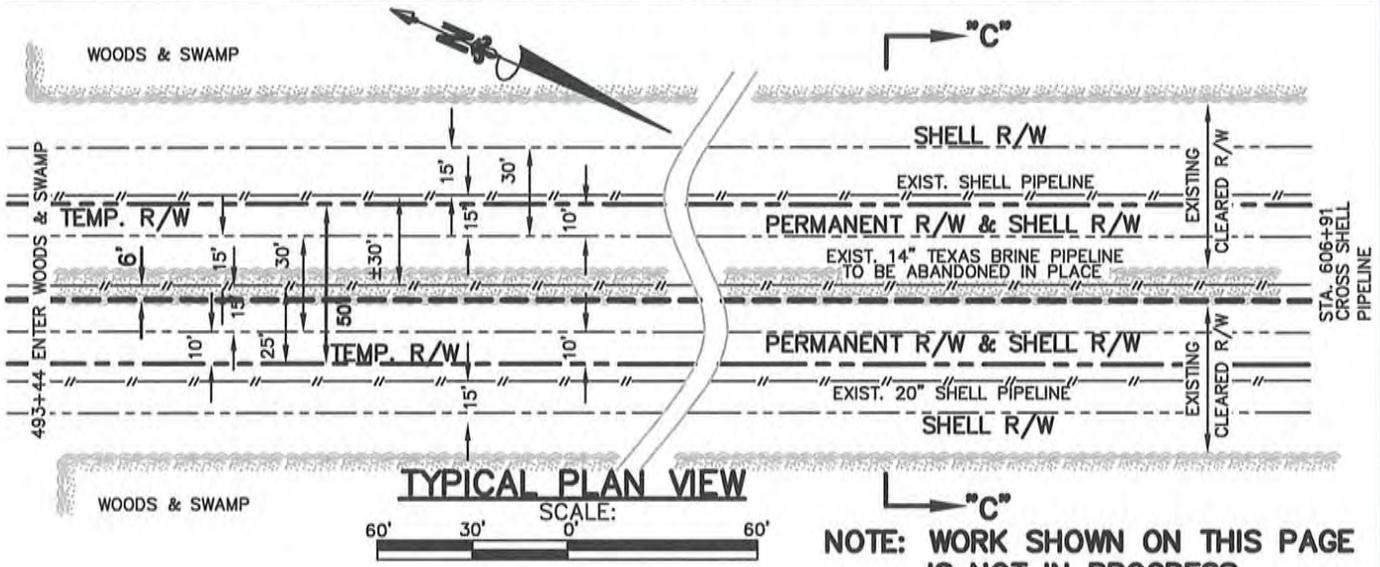
PERMIT APPLICATION FOR PROPOSED 18" x 64,548' PIPELINE REPLACEMENT  
**PLAN & PROFILE SHEET 7 OF 11**  
 ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA

REV.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
1	5-12-16	TO SHOW DIMENSIONS TO EXIST. 20" SHELL PIPELINE	REK	JJM	JJM
0	5-5-16	ISSUED DRAWINGS	REK	JJM	JJM

M.E. & A. DWG. NO. 13345-1, SHEET 33 OF 59

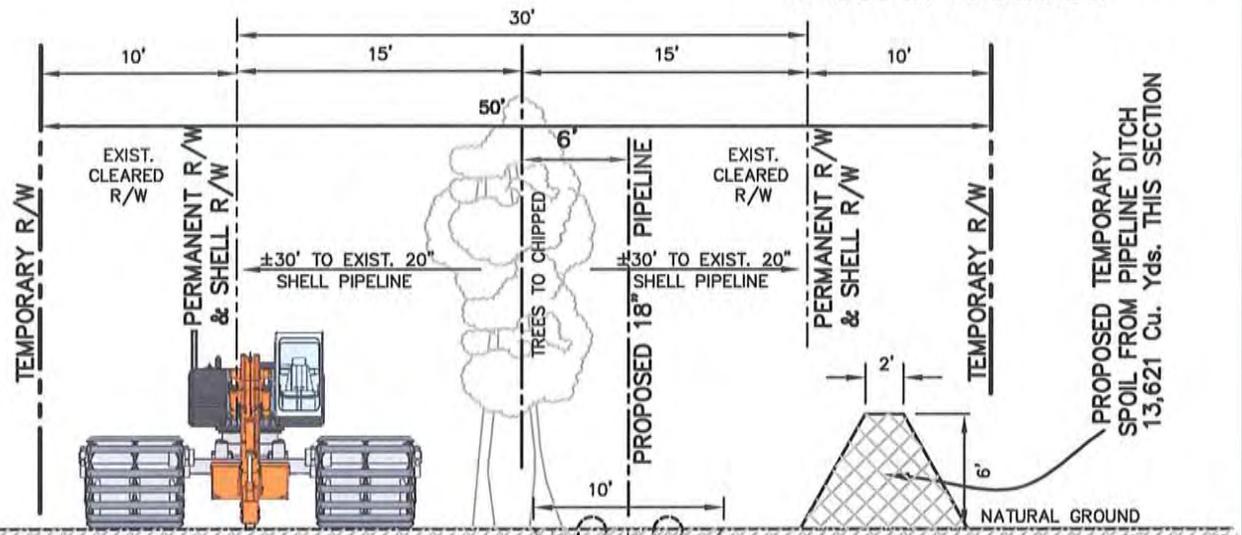
**ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA**

SEC. 32, 80, 119, 120, 165 & 127, T14S-R15E SEC. 76, 69, 68, 61, 60 & 51 T13S-R15E, SEC. 62 & 50, T12S-R15E



**TYPICAL PLAN VIEW**  
SCALE: 60' 30' 0' 60'

**NOTE: WORK SHOWN ON THIS PAGE IS NOT IN PROGRESS.**



**TYPICAL SECTION "C-C"**  
SCALE: 10' 5' 0' 10'

MAINLINE PIPE STRINGS AND DRILL STRINGS TO BE FLOATED INTO POSITION  
PROPOSED EXCAVATION & BACKFILL 13,621 Cu. Yds. THIS SECTION

**Sta. 493+44 To Sta. 606+91**

**NOTE:**  
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\* SEE SHEET 59 OF 59 FOR GENERAL NOTES AND REFERENCES.

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PREPARED BY:



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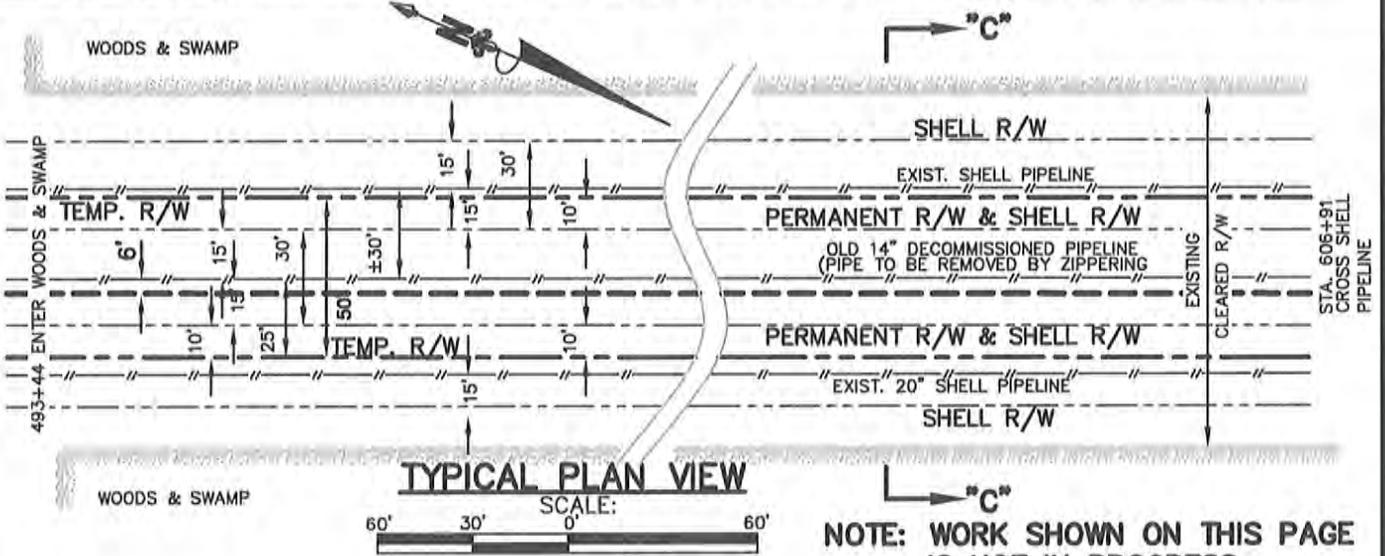
PERMIT APPLICATION FOR PROPOSED 18" x 64,548' PIPELINE REPLACEMENT  
**PLAN & PROFILE**  
SHEET 8 OF 11  
ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA

REV.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
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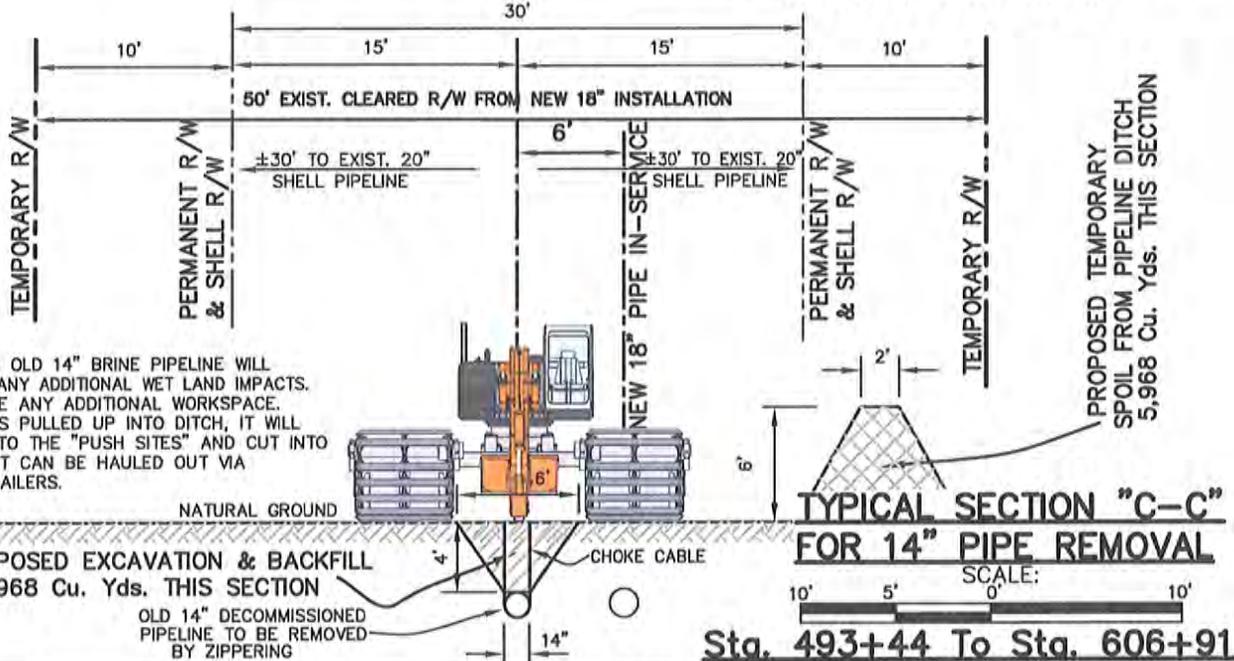
M.E. & A. DWG. NO. 13345-1, SHEET 34 OF 59

ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA

SEC. 32, 80, 119, 120, 165 & 127, T14S-R15E SEC. 76, 69, 68, 61, 60 & 51 T13S-R15E, SEC. 62 & 50, T12S-R15E



NOTE: WORK SHOWN ON THIS PAGE IS NOT IN PROGRESS.



- NOTES:
1. REMOVAL OF OLD 14" BRINE PIPELINE WILL NOT CAUSE ANY ADDITIONAL WET LAND IMPACTS. NOR REQUIRE ANY ADDITIONAL WORKSPACE.
  2. ONCE LINE IS PULLED UP INTO DITCH, IT WILL BE PULLED TO THE "PUSH SITES" AND CUT INTO LENGTH THAT CAN BE HAULED OUT VIA TRACTOR TRAILERS.

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**TEXAS BRINE COMPANY, LLC**

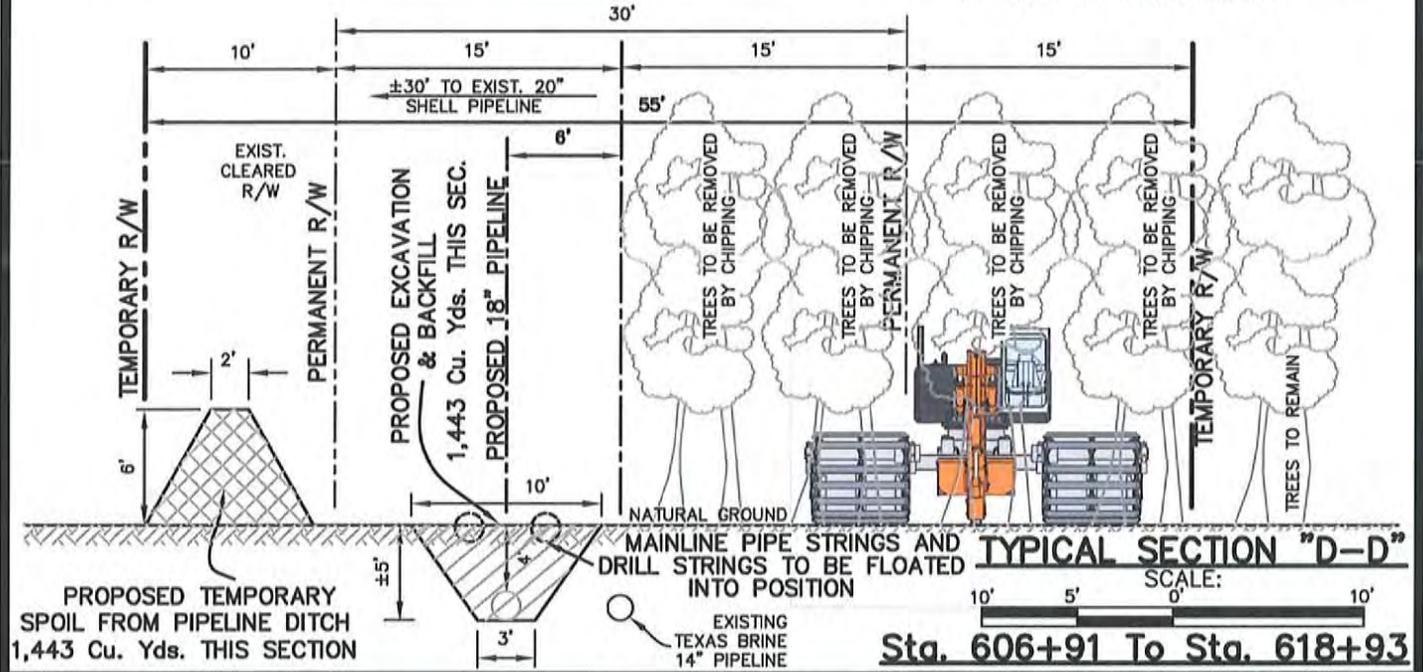
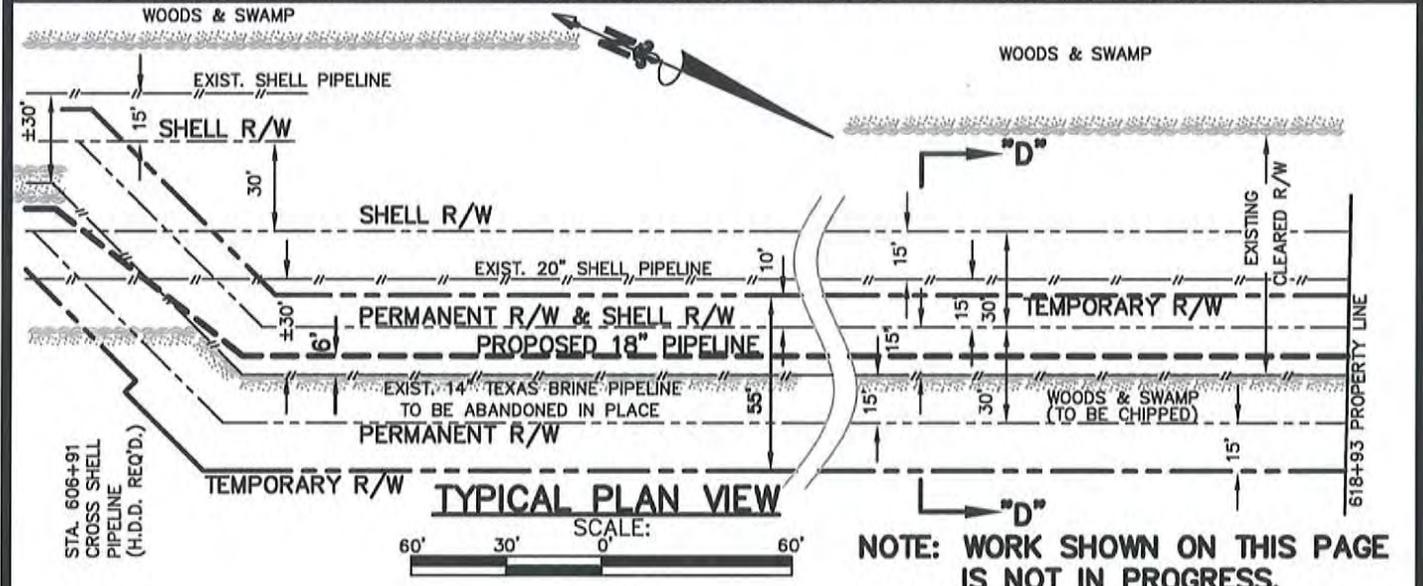
PERMIT APPLICATION FOR PROPOSED 18" x 64,548' PIPELINE REPLACEMENT  
**PLAN & PROFILE**  
**SHEET 8 OF 11**  
 ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA

REV.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
0	9-9-16	ISSUED DRAWING	REK	JJM	JJM

M.E. & A. DWG. NO. 13345-1, SHEET 34-A OF 59

# ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA

SEC. 32, 80, 119, 120, 165 & 127, T14S-R15E SEC. 76, 69, 68, 61, 60 & 51 T13S-R15E, SEC. 62 & 50, T12S-R15E



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\* SEE SHEET 59 OF 59 FOR GENERAL NOTES AND REFERENCES.

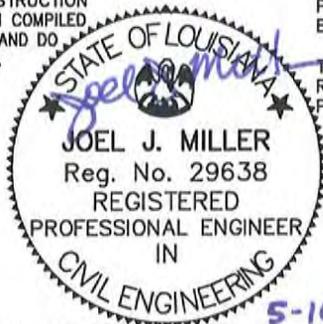
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**TEXAS BRINE COMPANY, LLC**  
**PERMIT APPLICATION FOR PROPOSED 18" x 64,548' PIPELINE REPLACEMENT**  
**PLAN & PROFILE SHEET 9 OF 11**

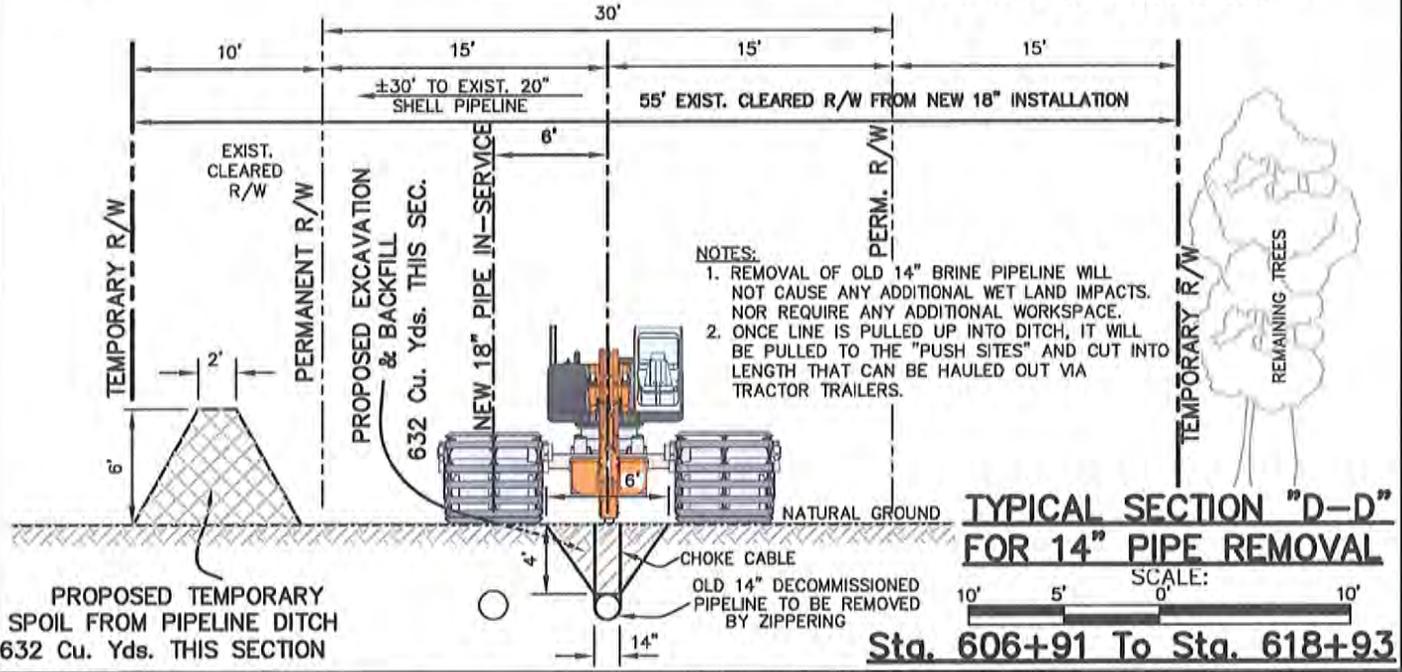
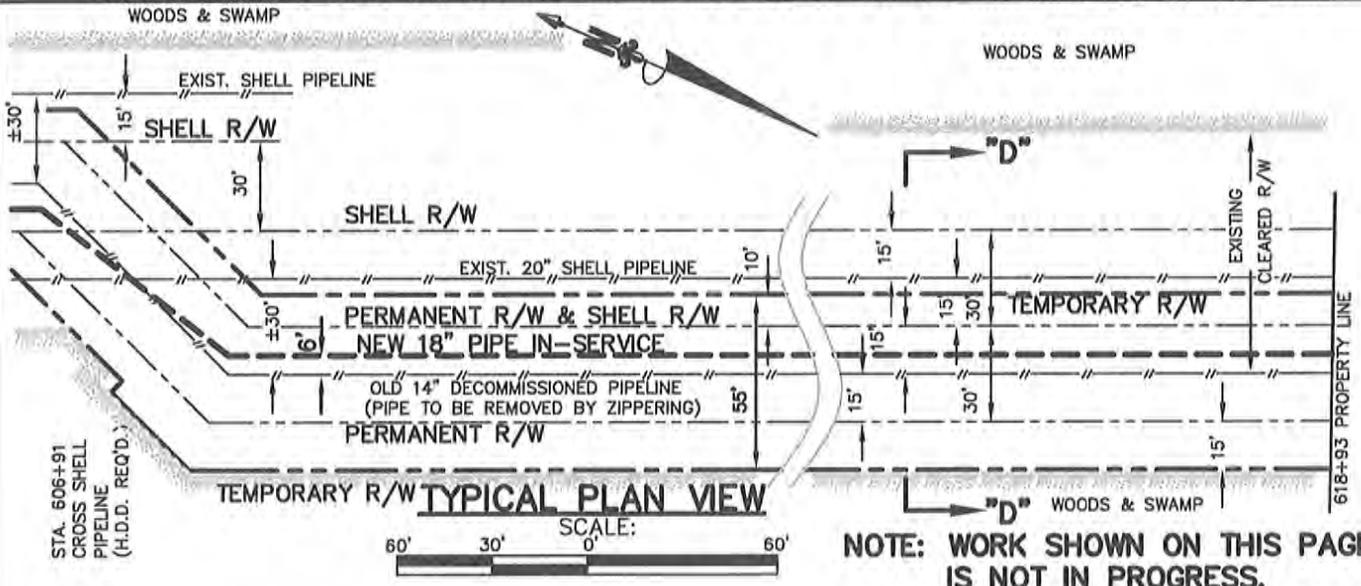
ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA

M.E. & A. DWG. NO. 13345-1, SHEET 35 OF 59

REV.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
1	5-12-16	TO SHOW DIMENSION TO EXIST. 20" SHELL PIPELINE	REK	JJM	JJM
0	5-5-16	ISSUED DRAWINGS	REK	JJM	JJM

**ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA**

SEC. 32, 80, 119, 120, 165 & 127, T14S-R15E SEC. 76, 69, 68, 61, 60 & 51 T13S-R15E, SEC. 62 & 50, T12S-R15E



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**M.E. & A.**  
Miller Engineers & Associates, Inc.

**TEXAS BRINE COMPANY, LLC**

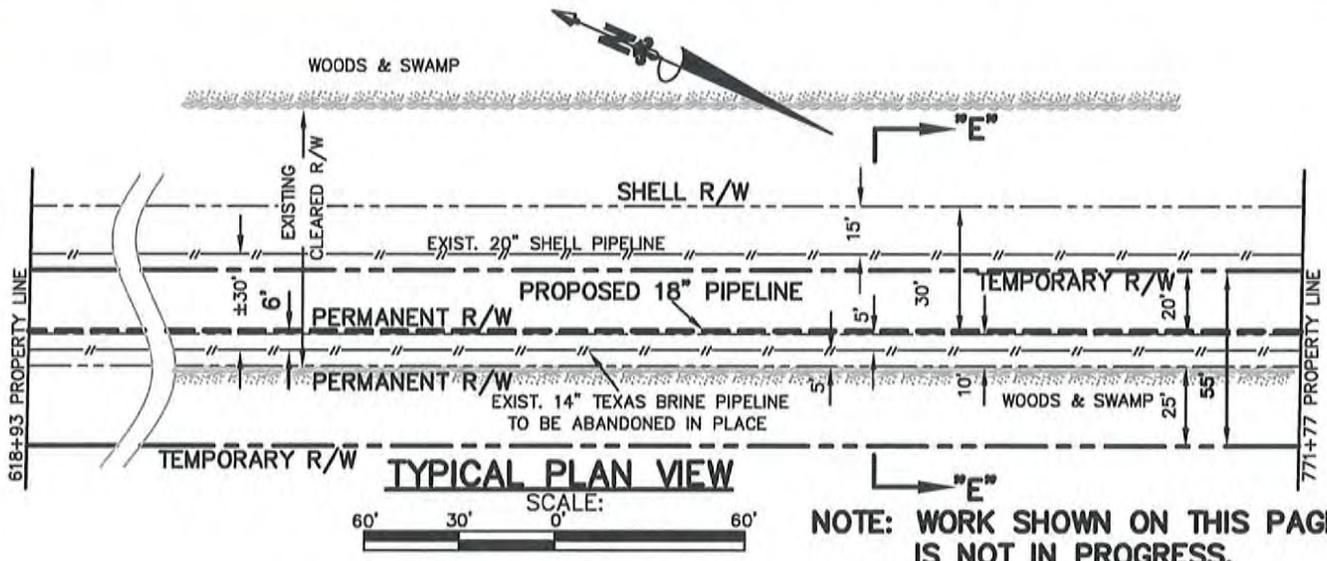
PERMIT APPLICATION FOR PROPOSED 18" x 64,548' PIPELINE REPLACEMENT  
**PLAN & PROFILE SHEET 9 OF 11**  
ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA

M.E. & A. DWG. NO. 13345-1, SHEET 35-A OF 59

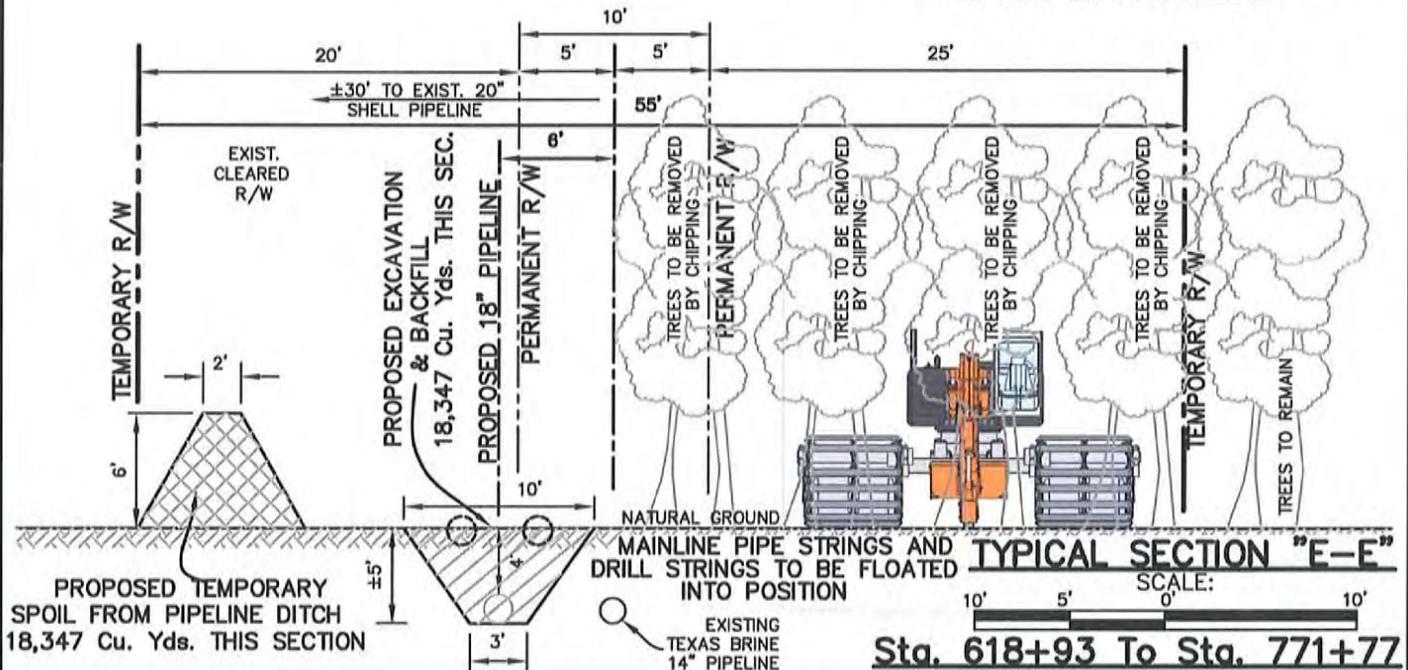
REV.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
0	9-9-16	ISSUED DRAWING	REK	JJM	JJM

**ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA**

SEC. 32, 80, 119, 120, 165 & 127, T14S-R15E SEC. 76, 69, 68, 61, 60 & 51 T13S-R15E, SEC. 62 & 50, T12S-R15E



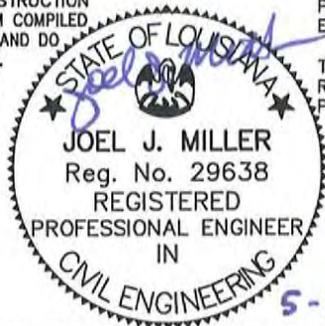
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**TEXAS BRINE COMPANY, LLC**

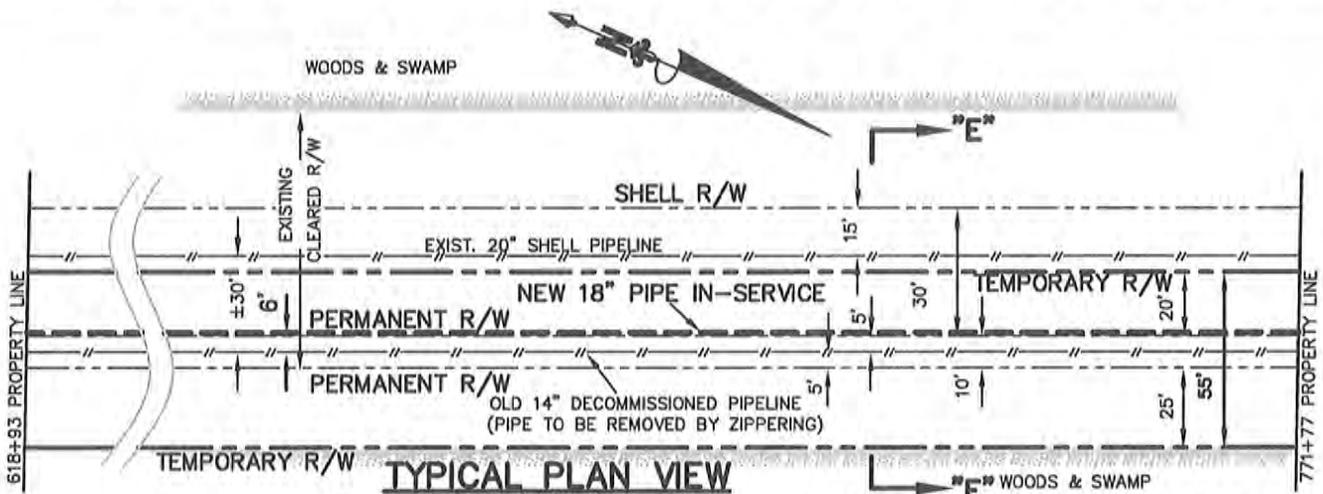
PERMIT APPLICATION FOR PROPOSED 18" x 64,548' PIPELINE REPLACEMENT  
**PLAN & PROFILE**  
**SHEET 10 OF 11**  
ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA

REV.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
1	5-12-16	TO SHOW DIMENSION TO EXIST. 20" SHELL PIPELINE	REK	JJM	JJM
0	5-5-16	ISSUED DRAWINGS	REK	JJM	JJM

M.E. & A. DWG. NO. 13345-1, SHEET 36 OF 59

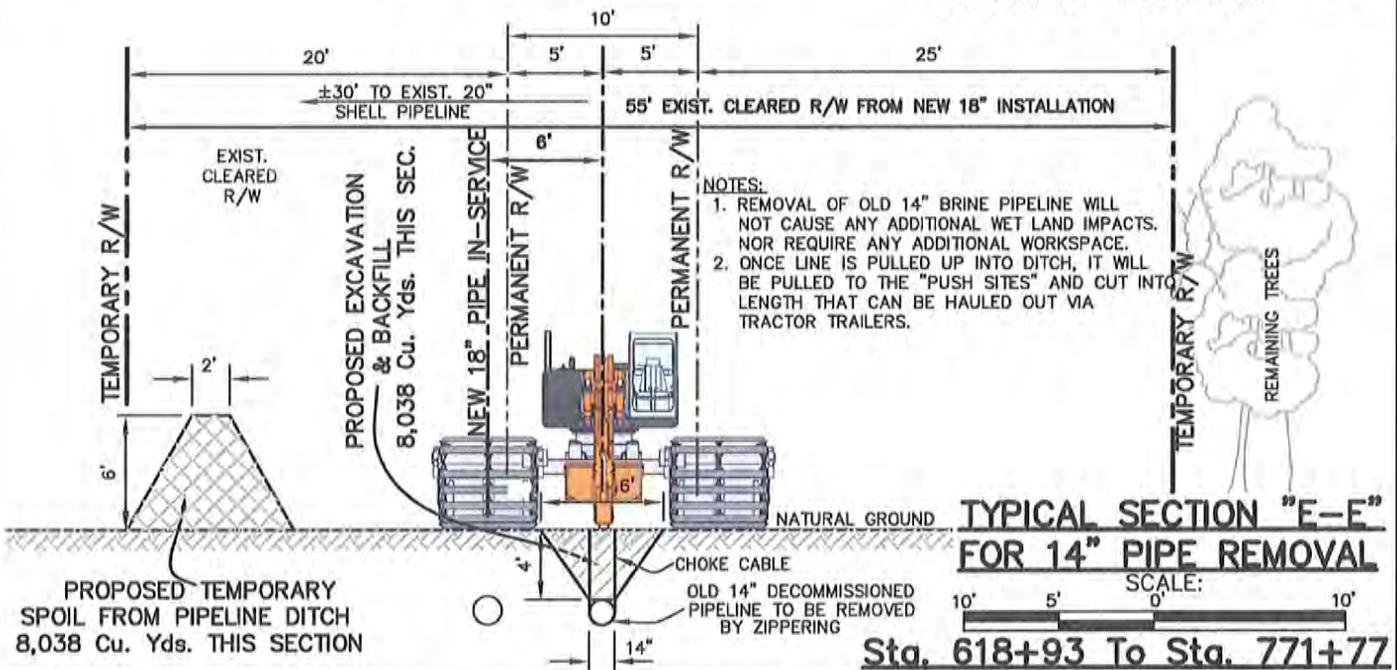
**ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA**

SEC. 32, 80, 119, 120, 165 & 127, T14S-R15E SEC. 76, 69, 68, 61, 60 & 51 T13S-R15E, SEC. 62 & 50, T12S-R15E



**TYPICAL PLAN VIEW**  
SCALE: 60' 30' 0' 60'

**NOTE: WORK SHOWN ON THIS PAGE IS NOT IN PROGRESS.**



**TYPICAL SECTION "E-E" FOR 14" PIPE REMOVAL**  
SCALE: 10' 5' 0' 10'

**Sta. 618+93 To Sta. 771+77**

**NOTE:**  
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PREPARED BY:  
**MB & A**  
Miller Engineers & Associates, Inc.

**TEXAS BRINE COMPANY, LLC**

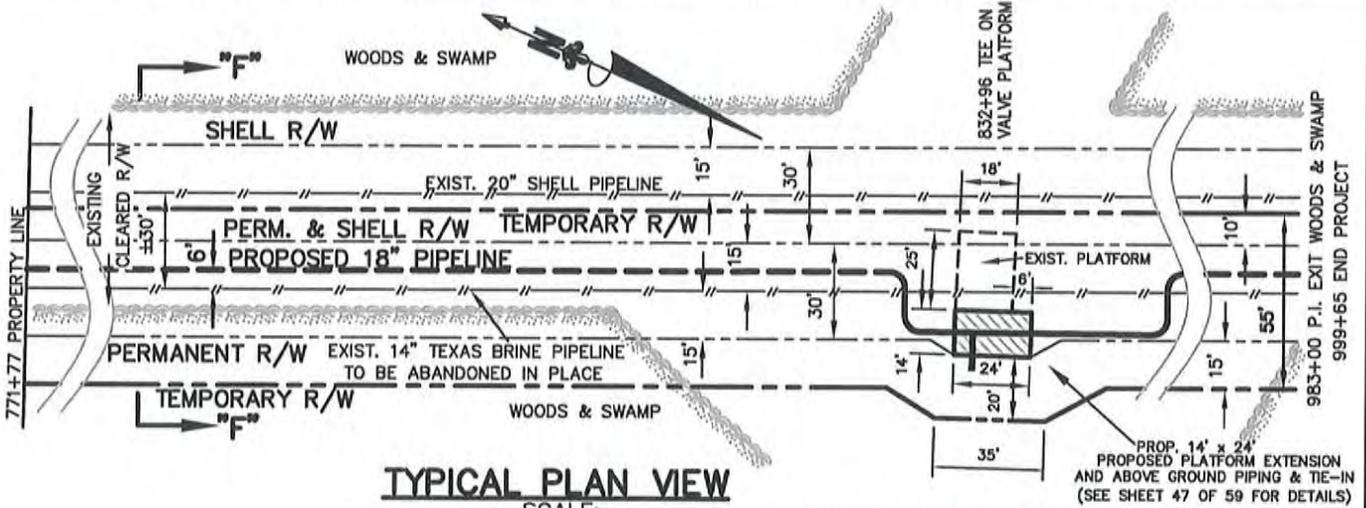
PERMIT APPLICATION FOR PROPOSED 18" x 64,548' PIPELINE REPLACEMENT  
**PLAN & PROFILE SHEET 10 OF 11**  
ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA

M.E. & A. DWG. NO. 13345-1, SHEET 36-A OF 59

REV.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
0	9-9-16	ISSUED DRAWING	REK	JJM	JJM

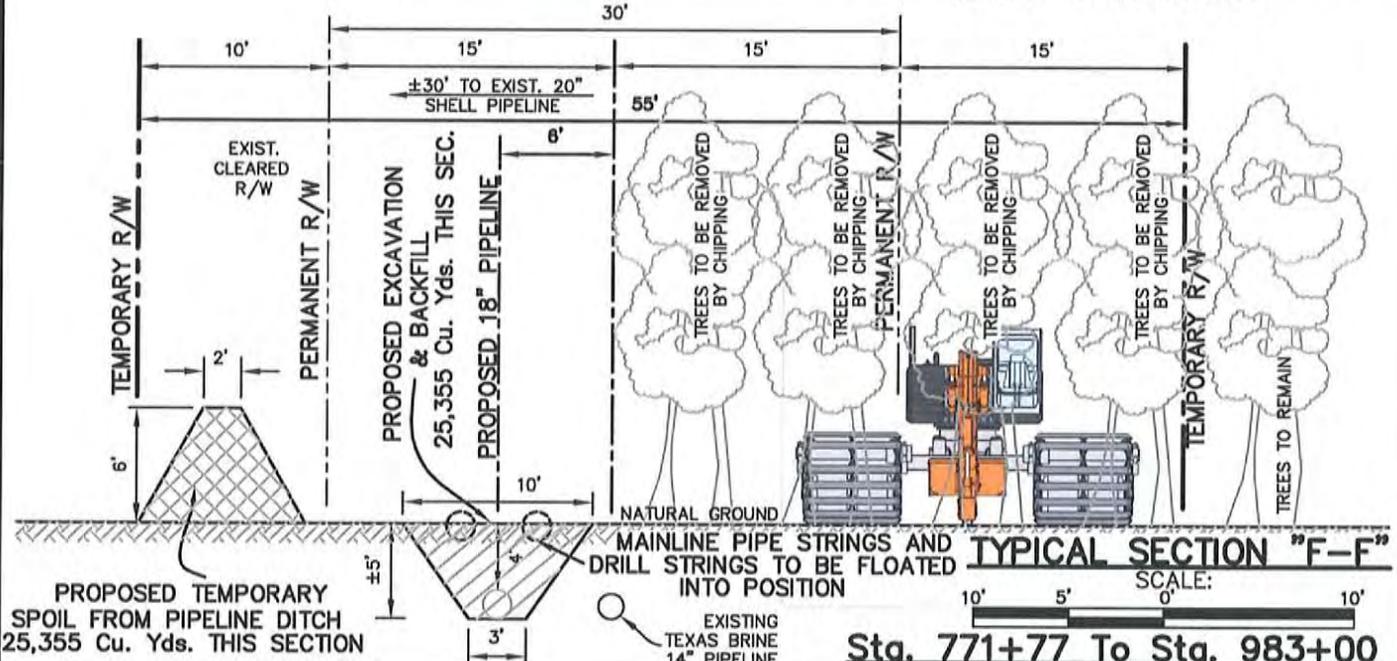
**ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA**

SEC. 32, 80, 119, 120, 165 & 127, T14S-R15E SEC. 76, 69, 68, 61, 60 & 51 T13S-R15E, SEC. 62 & 50, T12S-R15E



**TYPICAL PLAN VIEW**  
SCALE: 0' 30' 60'

**NOTE: WORK SHOWN ON THIS PAGE IS NOT IN PROGRESS.**



**PROPOSED TEMPORARY SPOIL FROM PIPELINE DITCH 25,355 Cu. Yds. THIS SECTION**

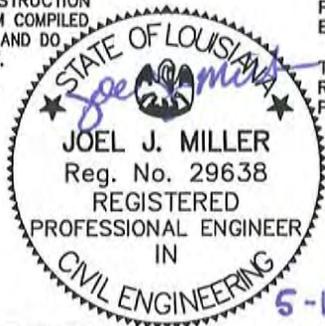
**TYPICAL SECTION "F-F"**  
SCALE: 0' 5' 10'

**Sta. 771+77 To Sta. 983+00**

**NOTE:**  
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5-16-16

PREPARED BY:  
**M.E. & A.**  
Miller Engineers & Associates, Inc.

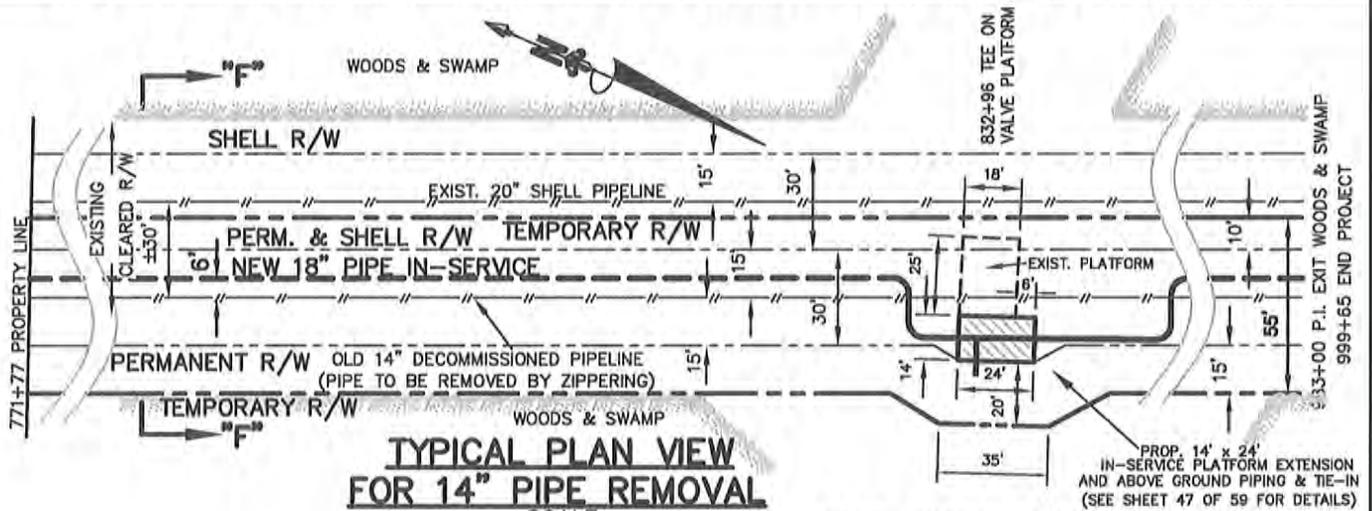
**TEXAS BRINE COMPANY, LLC**

PERMIT APPLICATION FOR PROPOSED 18" x 64,548' PIPELINE REPLACEMENT  
**SHEET 11 OF 11**  
ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA  
M.E. & A. DWG. NO. 13345-1, SHEET 37 OF 59

REV.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
1	5-12-16	TO SHOW DIMENSION TO EXIST. 20" SHELL PIPELINE	REK	JJM	JJM
0	5-5-16	ISSUED DRAWINGS	REK	JJM	JJM

**ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA**

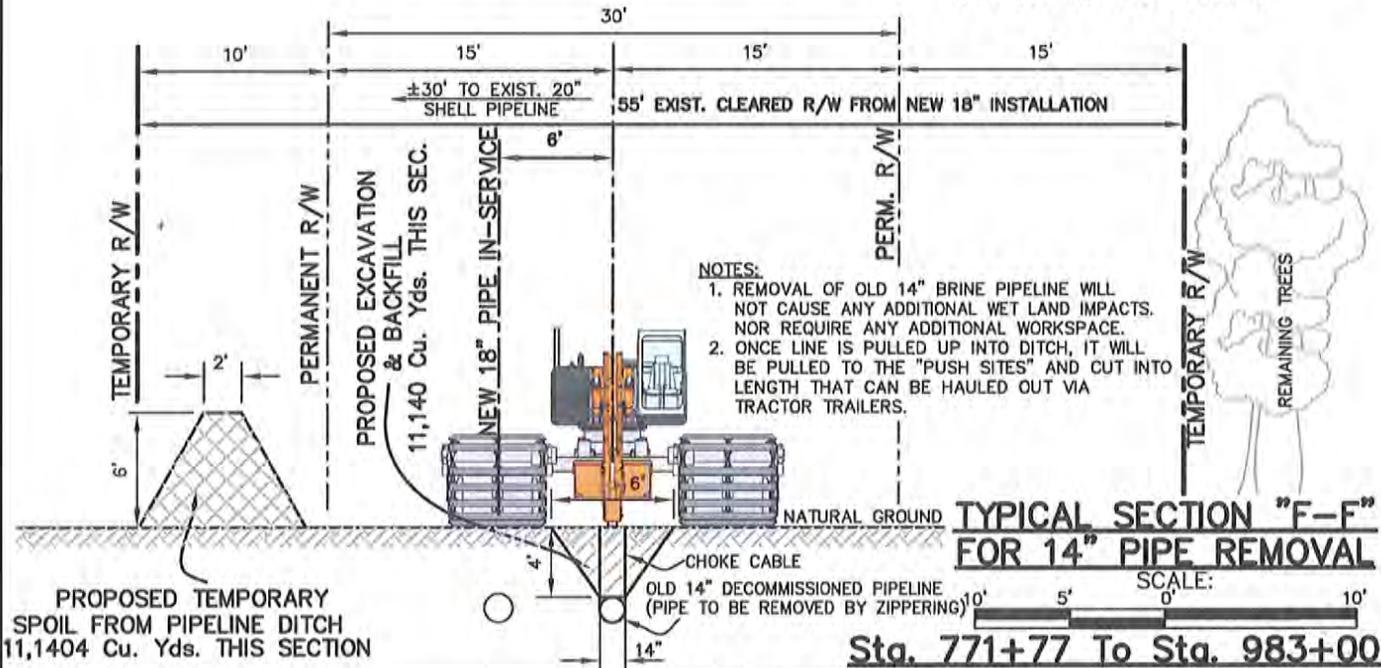
SEC. 32, 80, 119, 120, 165 & 127, T14S-R15E SEC. 76, 69, 68, 61, 60 & 51 T13S-R15E, SEC. 62 & 50, T12S-R15E



**TYPICAL PLAN VIEW FOR 14" PIPE REMOVAL**



**NOTE: WORK SHOWN ON THIS PAGE IS NOT IN PROGRESS.**



**TYPICAL SECTION "F-F" FOR 14" PIPE REMOVAL**

**Sta. 771+77 To Sta. 983+00**

**NOTE:**  
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\* SEE SHEET 59 OF 59 FOR GENERAL NOTES AND REFERENCES.

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PREPARED BY:  
**ME & A**  
Miller Engineers & Associates, Inc.

**TEXAS BRINE COMPANY, LLC**

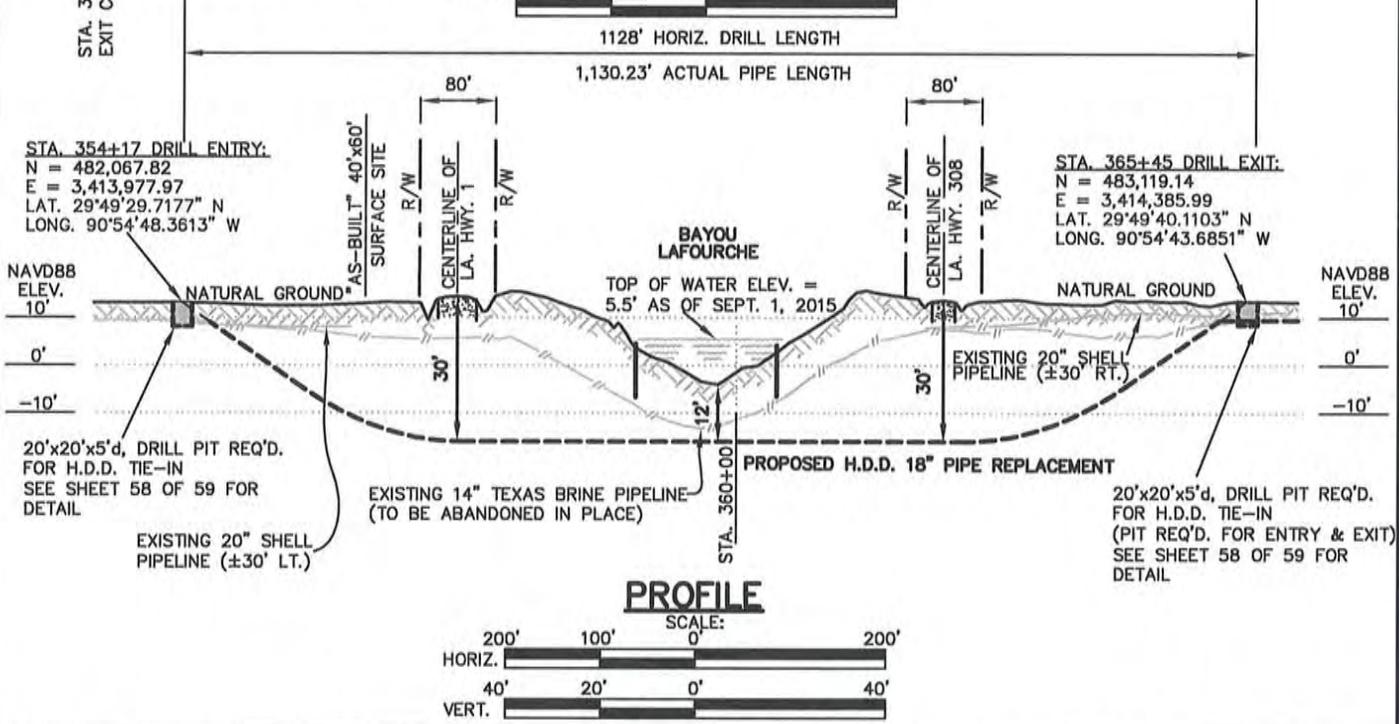
PERMIT APPLICATION FOR PROPOSED 18" x 84,548' PIPELINE REPLACEMENT  
**PLAN & PROFILE SHEET 11 OF 11**  
ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA

M.E. & A. DWG. NO. 13345-1, SHEET 37-A OF 59

REV.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
0	9-9-16	ISSUED DRAWING	REK	JJM	JJM

# ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA

SEC. 32, 80, 119, 120, 165 & 127, T14S-R15E SEC. 76, 69, 68, 61, 60 & 51 T13S-R15E, SEC. 62 & 50, T12S-R15E

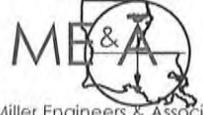


**NOTE:**  
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\* SEE SHEET 59 OF 59 FOR GENERAL NOTES AND REFERENCES.

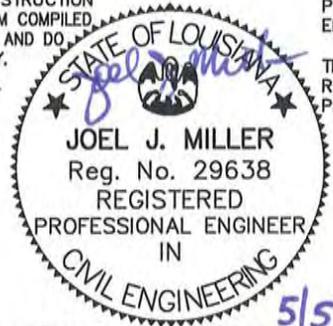
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PREPARED BY:



Miller Engineers & Associates, Inc.



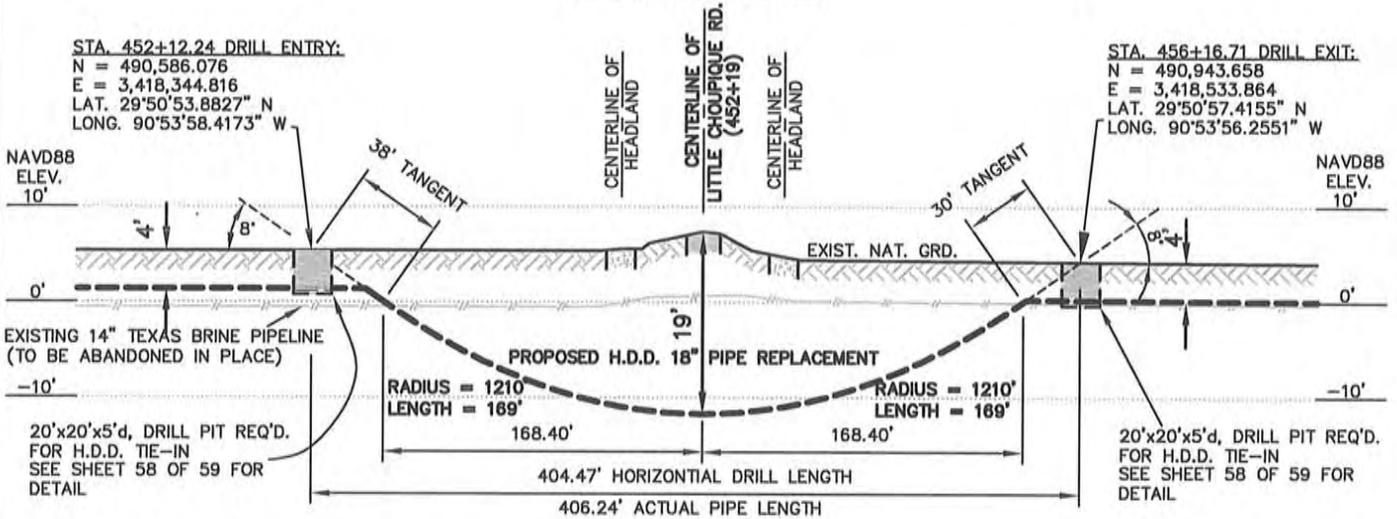
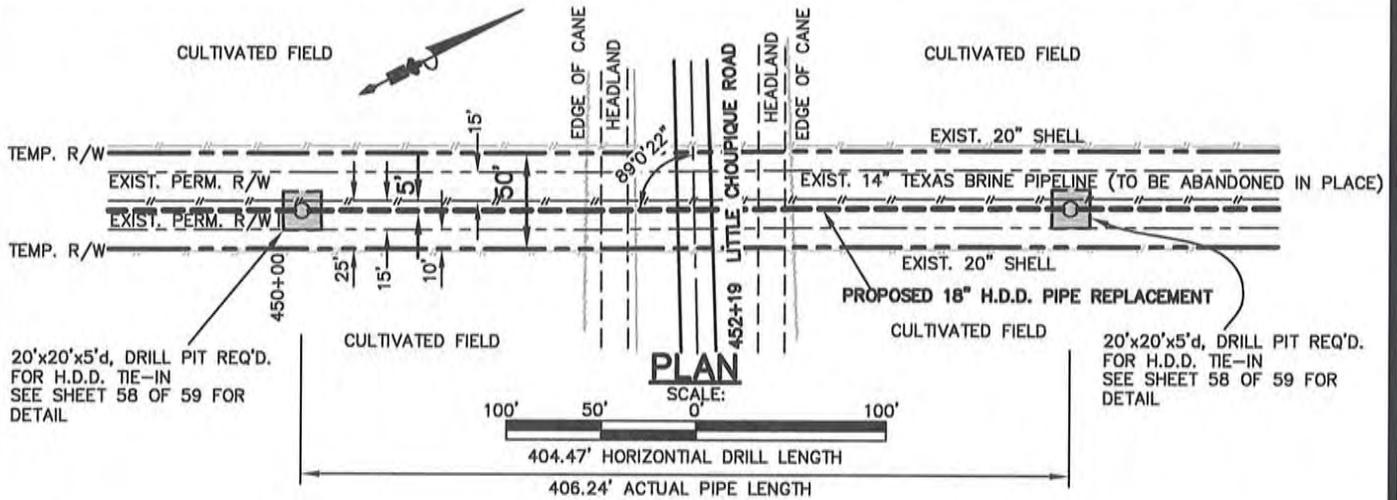
**PERMIT APPLICATION FOR PROPOSED 18" x 64,548' PIPELINE REPLACEMENT PLAN & PROFILE**  
LA. HWY. 1, BAYOU LAFOURCHE & LA. HWY. 308  
ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA

REV.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
0	5-5-16	ISSUED DRAWINGS	REK	JJM	JJM

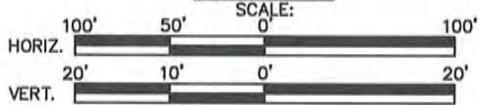
M.E. & A. DWG. NO. 13345-1, SHEET 38 OF 59

# ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA

SEC. 32, 80, 119, 120, 165 & 127, T14S-R15E SEC. 76, 69, 68, 61, 60 & 51 T13S-R15E, SEC. 62 & 50, T12S-R15E



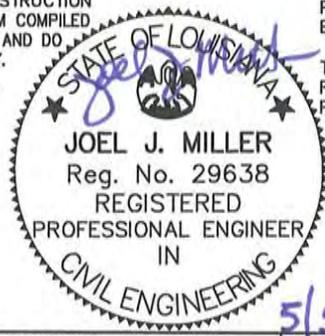
## PROFILE



**NOTE:**  
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 \* SEE SHEET 59 OF 59 FOR GENERAL NOTES AND REFERENCES.

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PREPARED BY:  
  
 Miller Engineers & Associates, Inc.

**TEXAS BRINE COMPANY, LLC**

PERMIT APPLICATION FOR  
 PROPOSED 18" x 64,548'  
 PIPELINE REPLACEMENT  
**PLAN & PROFILE**  
**LITTLE CHOUIQUE ROAD (452+19)**  
 ASSUMPTION, LAFOURCHE &  
 & ST. JAMES PARISHES, LOUISIANA

M.E. & A. DWG. NO. 13345-1, SHEET 39 OF 59

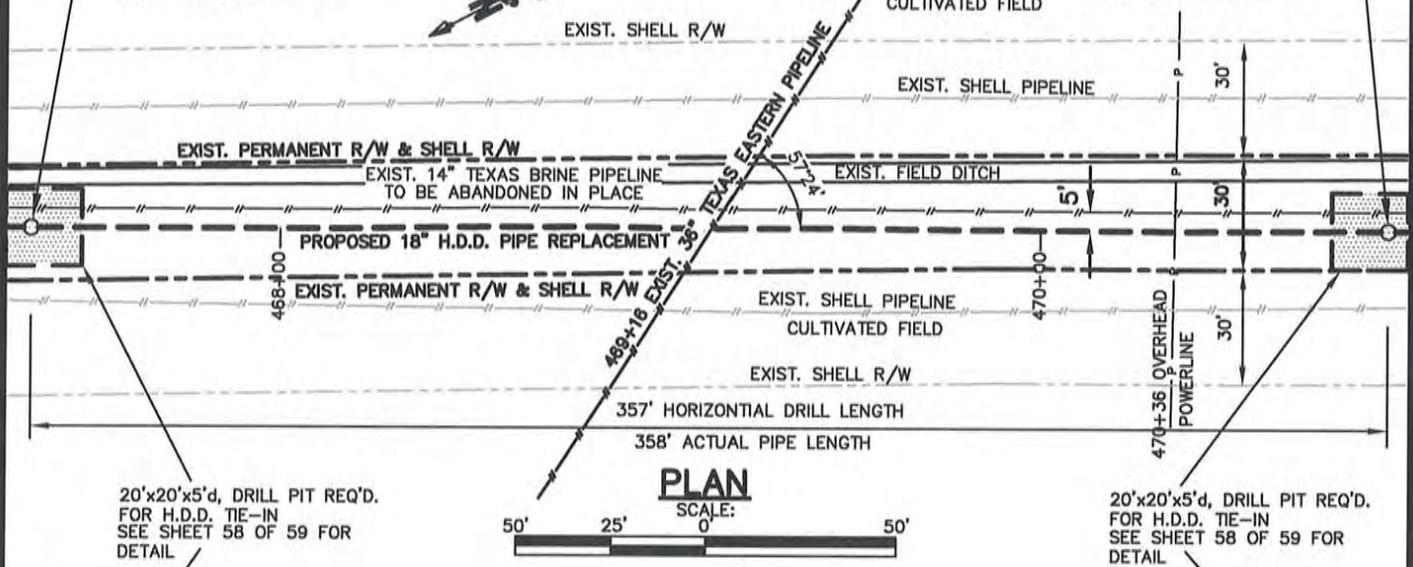
REV.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
0	5-5-16	ISSUED DRAWINGS	REK	JJM	JJM

# ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA

SEC. 32, 80, 119, 120, 165 & 127, T14S-R15E SEC. 76, 69, 68, 61, 60 & 51 T13S-R15E, SEC. 62 & 50, T12S-R15E

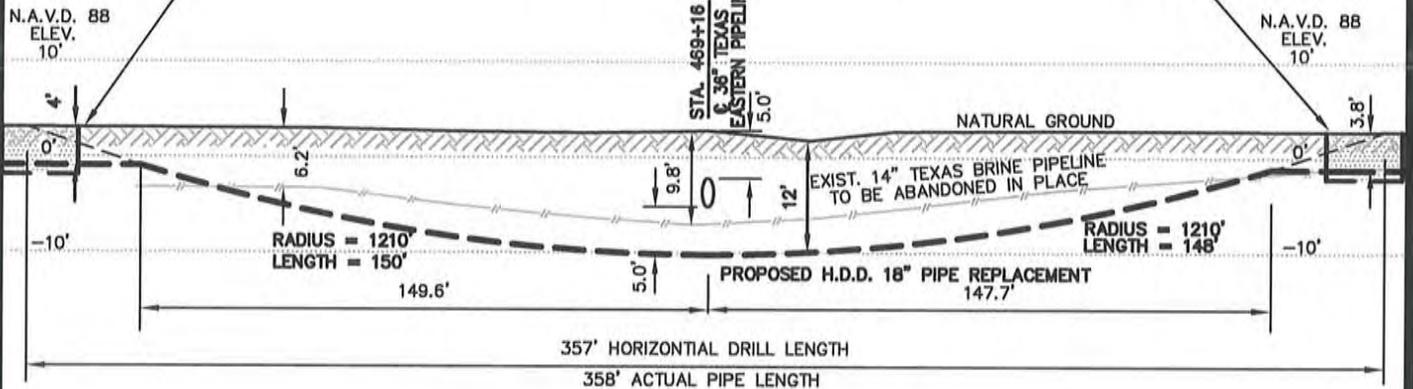
STA. 467+36.84 DRILL ENTRY:  
 N = 492,107.144  
 E = 3,419,151.863  
 LAT. 29°51'08.9101" N  
 LONG. 90°53'49.1888" W

STA. 470+95.68 DRILL ENTRY:  
 N = 492,422.342  
 E = 3,419,319.140  
 LAT. 29°51'12.0241" N  
 LONG. 90°53'47.2735" W



**PLAN**

SCALE:  
0' 25' 50'



**PROFILE**

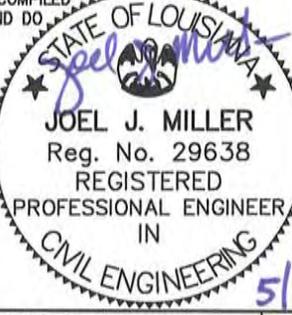
SCALE:  
 HORIZ. 0' 25' 50'  
 VERT. 0' 10' 20'

**NOTE:**  
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 \* SEE SHEET 59 OF 59 FOR GENERAL NOTES AND REFERENCES.

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PREPARED BY:  
  
 Miller Engineers & Associates, Inc.

  
 JOEL J. MILLER  
 Reg. No. 29638  
 REGISTERED  
 PROFESSIONAL ENGINEER  
 IN  
 CIVIL ENGINEERING

 **TEXAS BRINE COMPANY, LLC**

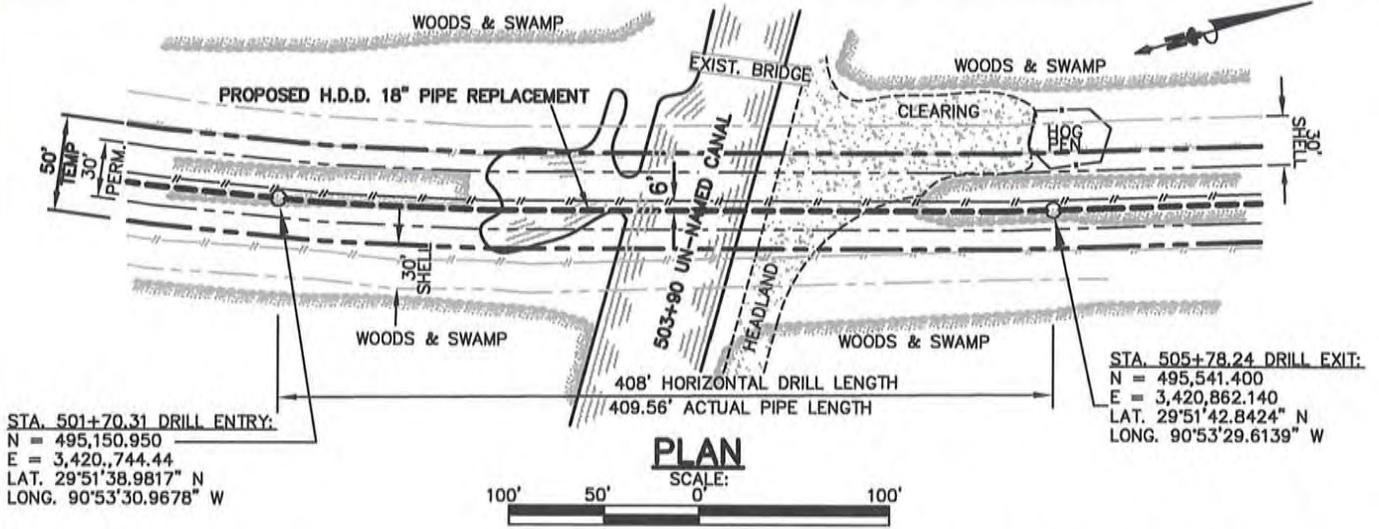
PERMIT APPLICATION FOR  
 PROPOSED 18" x 64,548'  
 PIPELINE REPLACEMENT  
**PLAN & PROFILE**  
**36" TEXAS EASTERN PIPELINE**  
 ASSUMPTION, LAFOURCHE &  
 & ST. JAMES PARISHES, LOUISIANA

REV.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
0	5-5-16	ISSUED DRAWINGS	REK	JJM	JJM

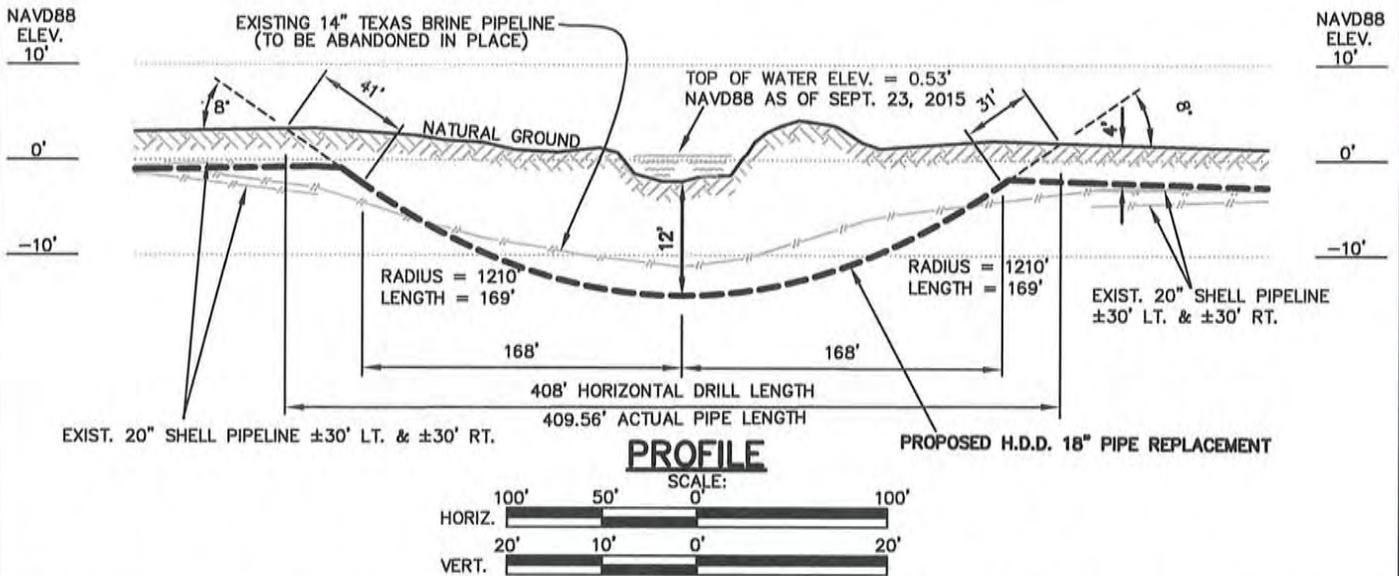
M.E. & A. DWG. NO. 13345-1, SHEET 40 OF 59

# ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA

SEC. 32, 80, 119, 120, 165 & 127, T14S-R15E SEC. 76, 69, 68, 61, 60 & 51 T13S-R15E, SEC. 62 & 50, T12S-R15E



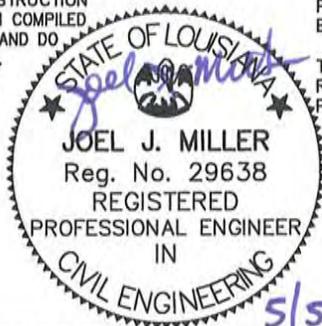
DRILLS TO BE TIED-IN TO MAINLINE STRING ON WORK BARGE, NO TIE-IN PIT REQ'D.



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\* SEE SHEET 59 OF 59 FOR GENERAL NOTES AND REFERENCES.

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PREPARED BY:



Miller Engineers & Associates, Inc.



TEXAS BRINE COMPANY, LLC

PERMIT APPLICATION FOR PROPOSED 18" x 64,548' PIPELINE REPLACEMENT  
**PLAN & PROFILE**  
**UN-NAMED CANAL (503+90)**  
ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA

REV.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
0	5-5-16	ISSUED DRAWINGS	REK	JJM	JJM

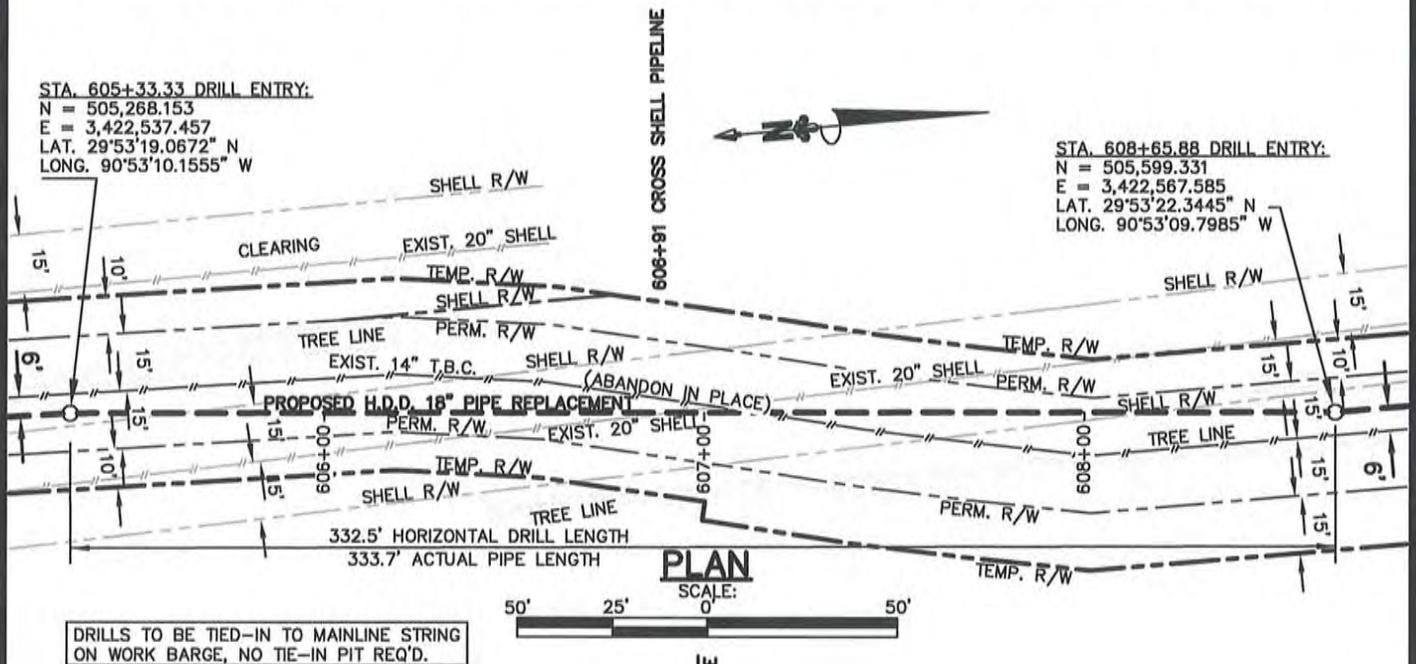
M.E. & A. DWG. NO. 13345-1, SHEET 41 OF 59

# ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA

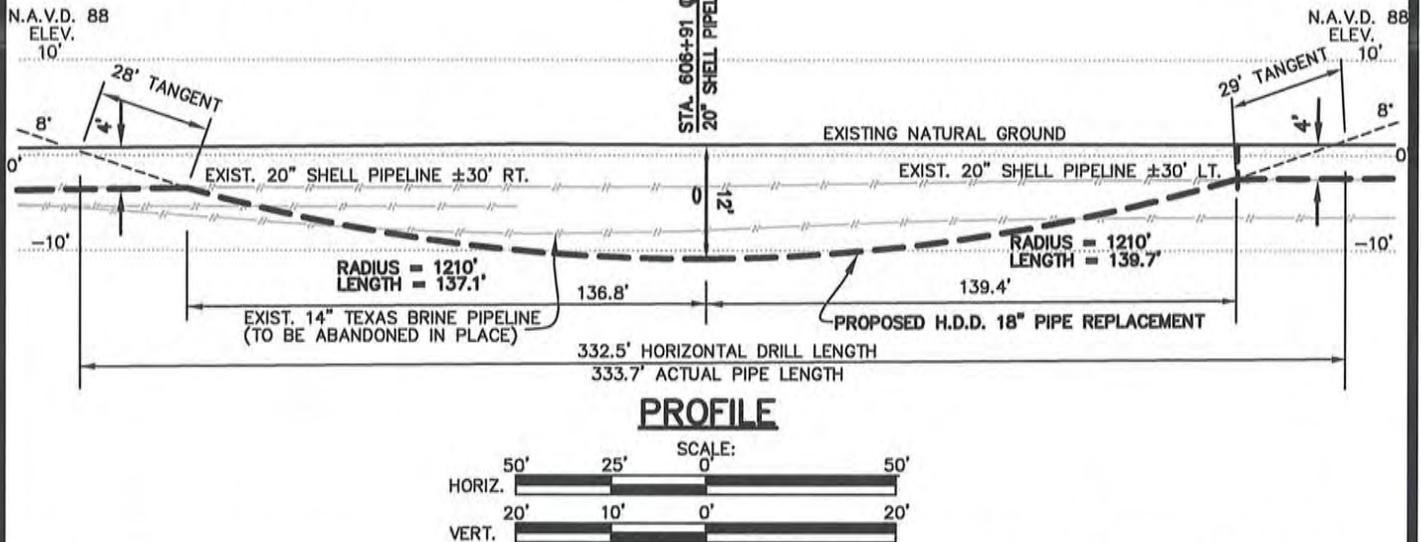
SEC. 32, 80, 119, 120, 165 & 127, T14S-R15E SEC. 76, 69, 68, 61, 60 & 51 T13S-R15E, SEC. 62 & 50, T12S-R15E

STA. 605+33.33 DRILL ENTRY:  
 N = 505,268.153  
 E = 3,422,537.457  
 LAT. 29°53'19.0672" N  
 LONG. 90°53'10.1555" W

STA. 608+65.88 DRILL ENTRY:  
 N = 505,599.331  
 E = 3,422,567.585  
 LAT. 29°53'22.3445" N  
 LONG. 90°53'09.7985" W



DRILLS TO BE TIED-IN TO MAINLINE STRING ON WORK BARGE, NO TIE-IN PIT REQ'D.

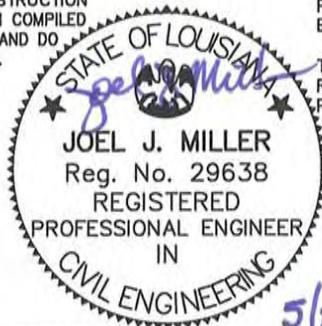


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 \* SEE SHEET 59 OF 59 FOR GENERAL NOTES AND REFERENCES.

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PREPARED BY:



Miller Engineers & Associates, Inc.

**TEXAS BRINE COMPANY, LLC**

PERMIT APPLICATION FOR PROPOSED 18" x 64,548' PIPELINE REPLACEMENT

**PLAN & PROFILE**

**20" SHELL PIPELINE (606+91)**

ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA

REV.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
0	5-5-16	ISSUED DRAWINGS	REK	JJM	JJM

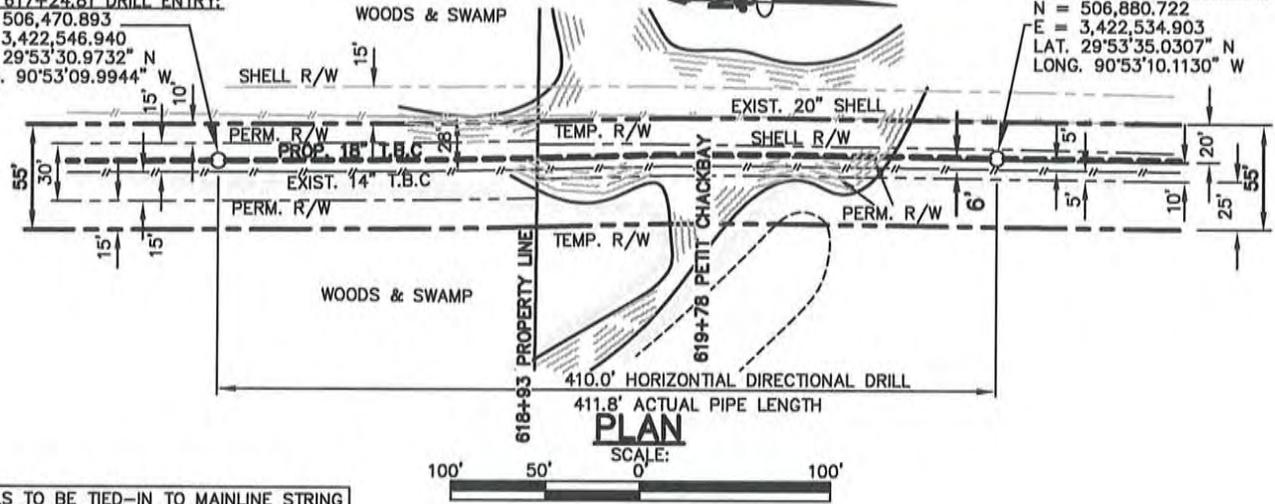
M.E. & A. DWG. NO. 13345-1, SHEET 42 OF 59

# ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA

SEC. 32, 80, 119, 120, 165 & 127, T14S-R15E SEC. 76, 69, 68, 61, 60 & 51 T13S-R15E, SEC. 62 & 50, T12S-R15E

STA. 617+24.81 DRILL ENTRY:  
 N = 506,470.893  
 E = 3,422,546.940  
 LAT. 29°53'30.9732" N  
 LONG. 90°53'09.9944" W

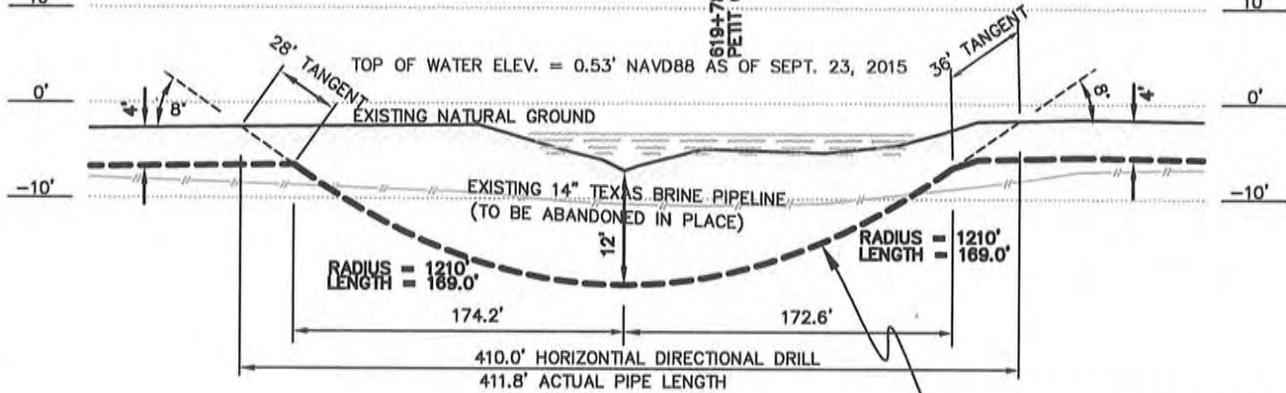
STA. 621+34.81 DRILL EXIT:  
 N = 506,880.722  
 E = 3,422,534.903  
 LAT. 29°53'35.0307" N  
 LONG. 90°53'10.1130" W



DRILLS TO BE TIED-IN TO MAINLINE STRING ON WORK BARGE, NO TIE-IN PIT REQ'D.

NAVD88  
ELEV.  
10'

NAVD88  
ELEV.  
10'



## PROFILE

SCALE:  
 HORIZ. 100' 50' 0' 100'  
 VERT. 20' 10' 0' 20'

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 \* SEE SHEET 59 OF 59 FOR GENERAL NOTES AND REFERENCES.

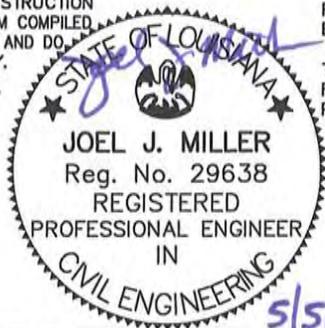
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PREPARED BY:



Miller Engineers & Associates, Inc.



TEXAS BRINE  
COMPANY, LLC

PERMIT APPLICATION FOR  
 PROPOSED 18" x 64,548'  
 PIPELINE REPLACEMENT  
**PLAN & PROFILE**  
**BAYOU PETIT CHACKBAY (619+78)**  
 ASSUMPTION, LAFOURCHE &  
 & ST. JAMES PARISHES, LOUISIANA

REV.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
0	5-5-16	ISSUED DRAWINGS	REK	JJM	JJM

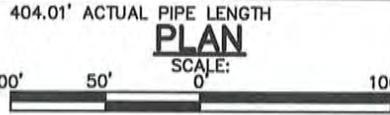
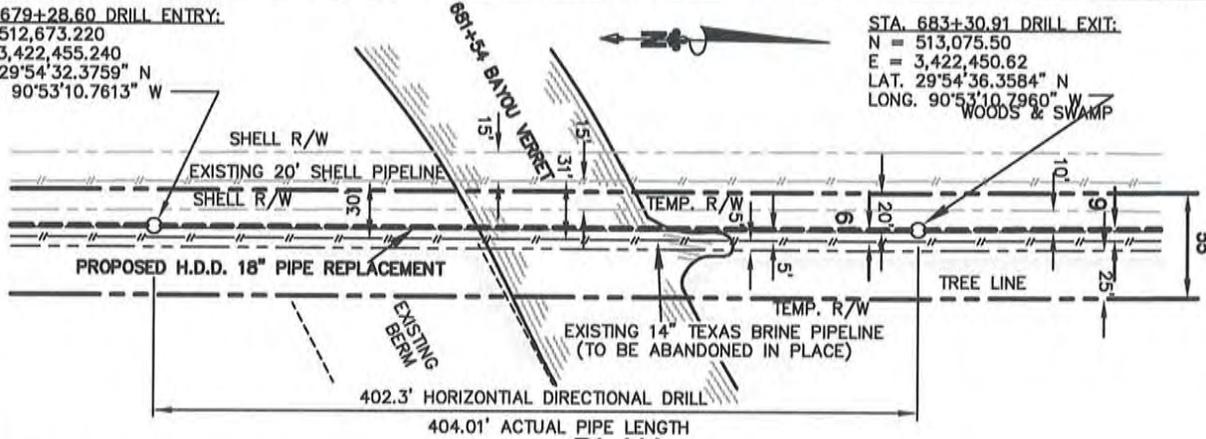
M.E. & A. DWG. NO. 13345-1, SHEET 43 OF 59

# ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA

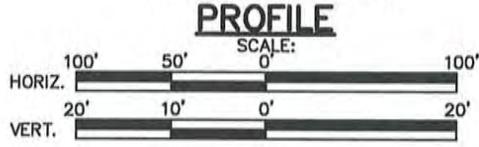
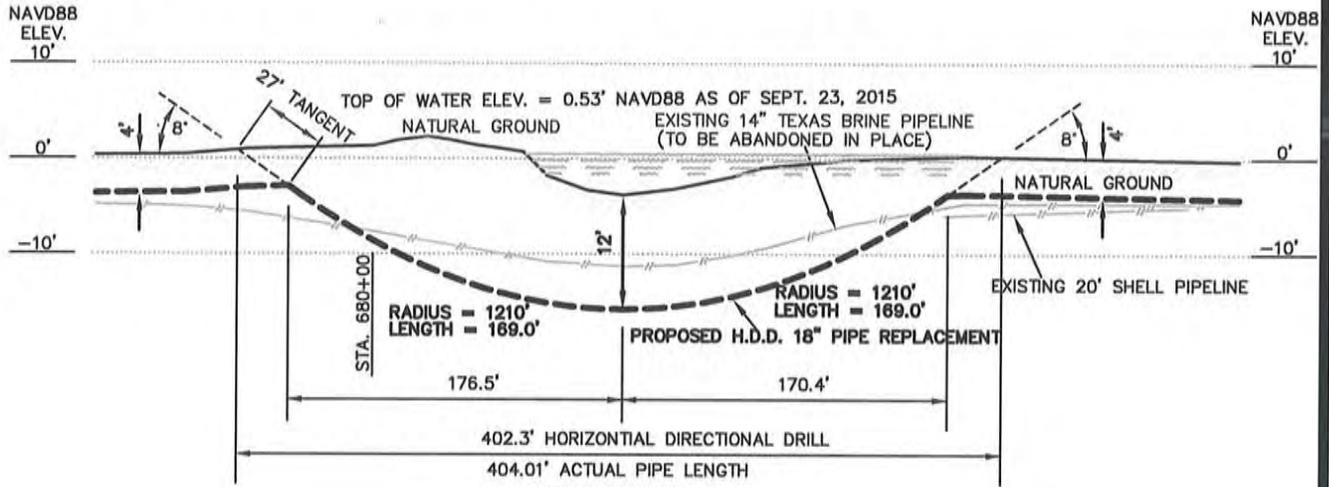
SEC. 32, 80, 119, 120, 165 & 127, T14S-R15E SEC. 76, 69, 68, 61, 60 & 51 T13S-R15E, SEC. 62 & 50, T12S-R15E

STA. 679+28.60 DRILL ENTRY:  
 N = 512,673.220  
 E = 3,422,455.240  
 LAT. 29°54'32.3759" N  
 LONG. 90°53'10.7613" W

STA. 683+30.91 DRILL EXIT:  
 N = 513,075.50  
 E = 3,422,450.62  
 LAT. 29°54'36.3584" N  
 LONG. 90°53'10.7960" W



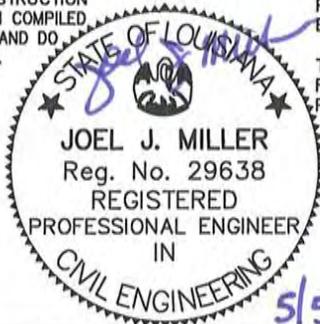
DRILLS TO BE TIED-IN TO MAINLINE STRING ON WORK BARGE, NO TIE-IN PIT REQ'D.



**NOTE:**  
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 \* SEE SHEET 59 OF 59 FOR GENERAL NOTES AND REFERENCES.

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PREPARED BY:



Miller Engineers & Associates, Inc.



**TEXAS BRINE COMPANY, LLC**

PERMIT APPLICATION FOR  
 PROPOSED 18" x 64,548'  
 PIPELINE REPLACEMENT  
**PLAN & PROFILE**  
**BAYOU VERRET (681+54)**  
 ASSUMPTION, LAFOURCHE &  
 ST. JAMES PARISHES, LOUISIANA

REV.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
0	5-5-16	ISSUED DRAWINGS	REK	JJM	JJM

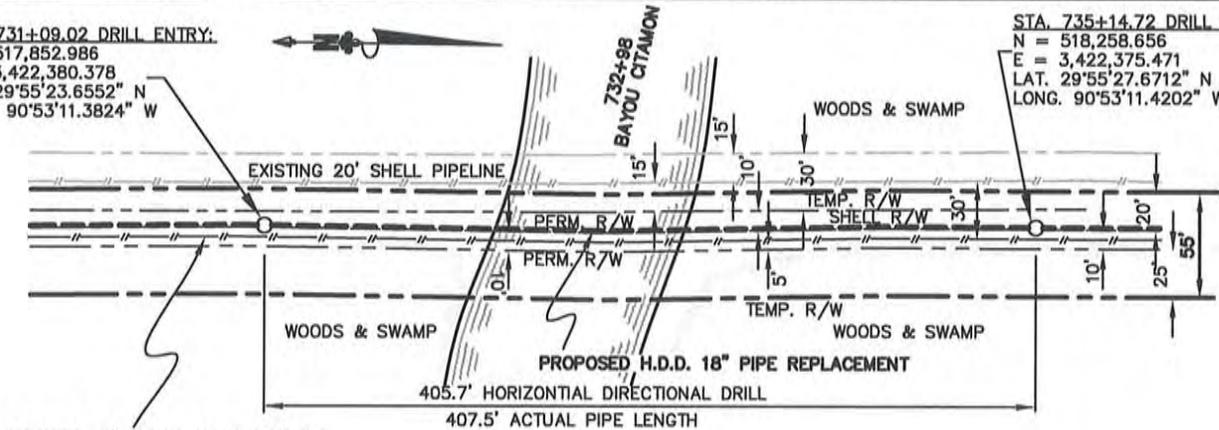
M.E. & A. DWG. NO. 13345-1, SHEET 44 OF 59

# ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA

SEC. 32, 80, 119, 120, 165 & 127, T14S-R15E SEC. 76, 69, 68, 61, 60 & 51 T13S-R15E, SEC. 62 & 50, T12S-R15E

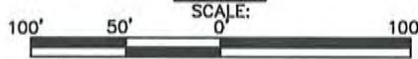
STA. 731+09.02 DRILL ENTRY:  
 N = 517,852.986  
 E = 3,422,380.378  
 LAT. 29°55'23.6552" N  
 LONG. 90°53'11.3824" W

STA. 735+14.72 DRILL EXIT:  
 N = 518,258.656  
 E = 3,422,375.471  
 LAT. 29°55'27.6712" N  
 LONG. 90°53'11.4202" W



EXISTING 14" TEXAS BRINE PIPELINE  
 (TO BE ABANDONED IN PLACE)

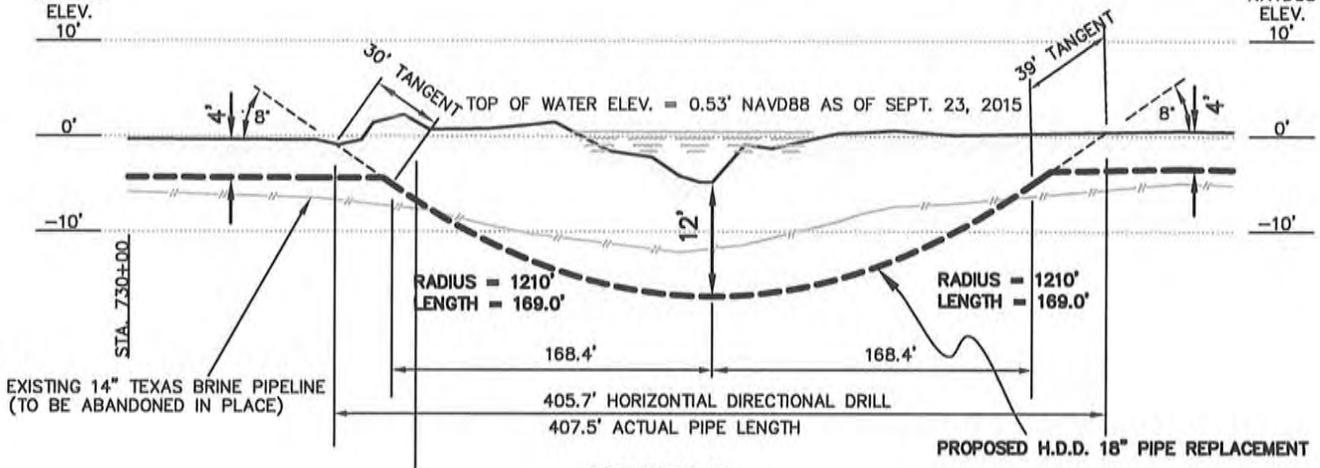
**PLAN**



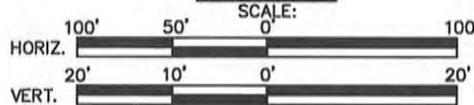
DRILLS TO BE TIED-IN TO MAINLINE STRING  
 ON WORK BARGE, NO TIE-IN PIT REQ'D.

NAVD88  
 ELEV.  
 10'

NAVD88  
 ELEV.  
 10'



**PROFILE**



**NOTE:**

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\* SEE SHEET 59 OF 59 FOR GENERAL NOTES AND REFERENCES.

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PREPARED BY:



Miller Engineers & Associates, Inc.



**TEXAS BRINE  
 COMPANY, LLC**

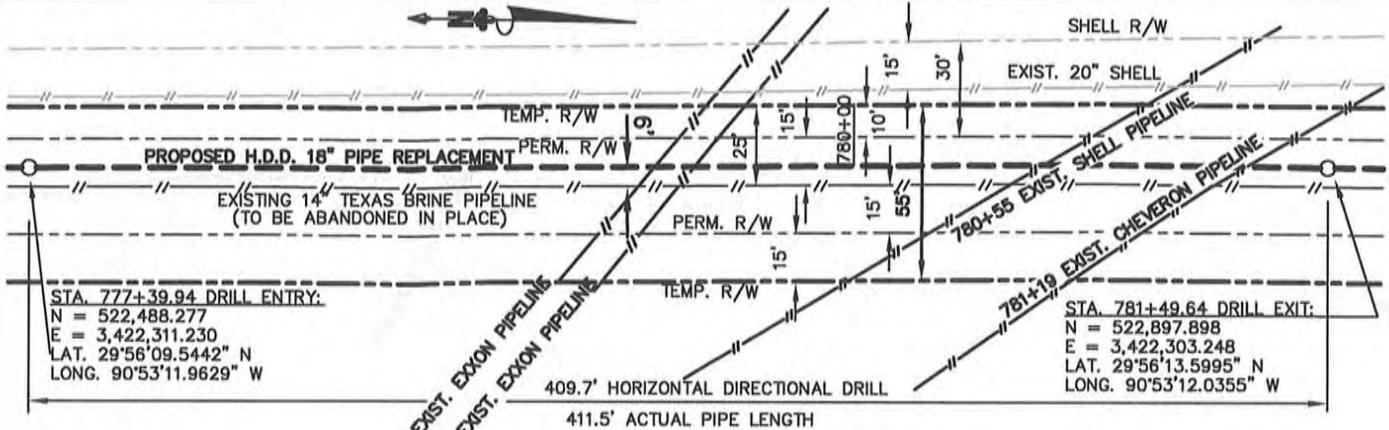
PERMIT APPLICATION FOR  
 PROPOSED 18" x 64,548'  
 PIPELINE REPLACEMENT  
**PLAN & PROFILE**  
**BAYOU CITAMON (732+98)**  
 ASSUMPTION, LAFOURCHE &  
 ST. JAMES PARISHES, LOUISIANA

REV.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
0	5-5-16	ISSUED DRAWINGS	REK	JJM	JJM

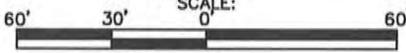
M.E. & A. DWG. NO. 13345-1, SHEET 45 OF 59

**ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA**

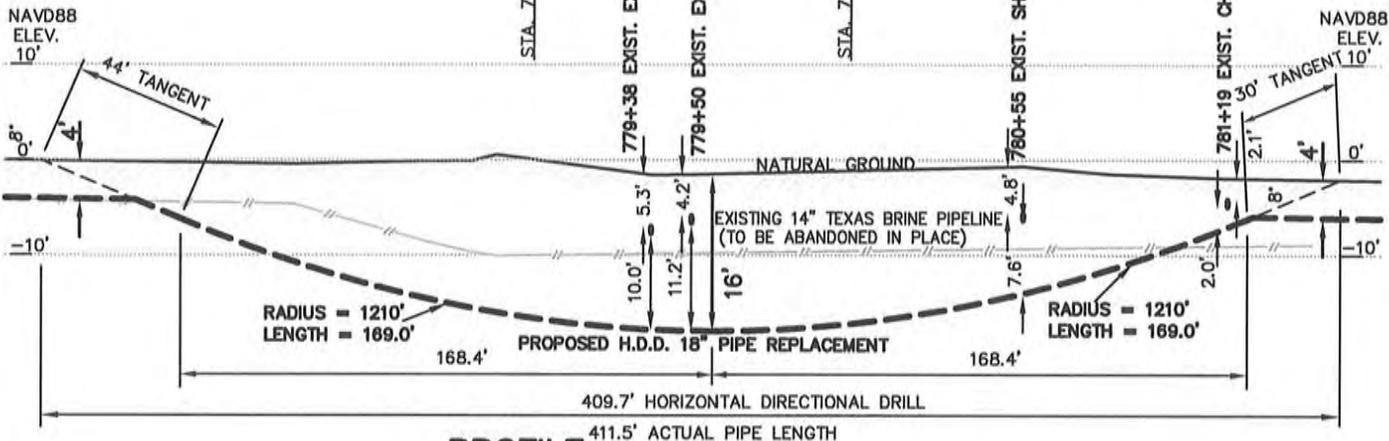
SEC. 32, 80, 119, 120, 165 & 127, T14S-R15E SEC. 76, 69, 68, 61, 60 & 51 T13S-R15E, SEC. 62 & 50, T12S-R15E



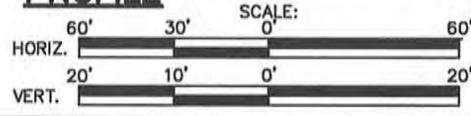
**PLAN**



DRILLS TO BE TIED-IN TO MAINLINE STRING ON WORK BARGE, NO TIE-IN PIT REQ'D.



**PROFILE**



**NOTE:**  
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\* SEE SHEET 59 OF 59 FOR GENERAL NOTES AND REFERENCES.

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PREPARED BY:  
**MB & A**  
Miller Engineers & Associates, Inc.

STATE OF LOUISIANA  
JOEL J. MILLER  
Reg. No. 29638  
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING

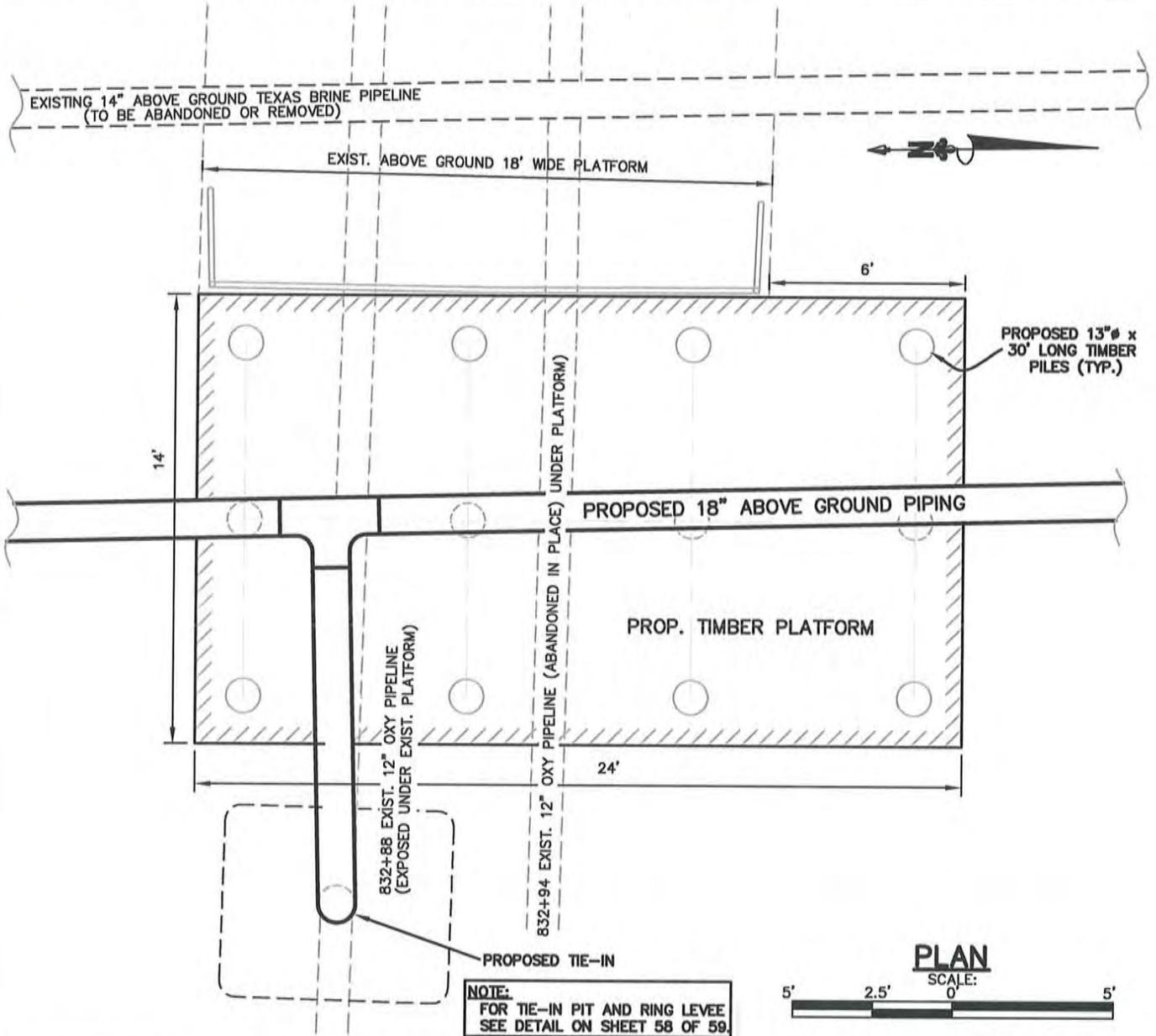
**TEXAS BRINE COMPANY, LLC**

PERMIT APPLICATION FOR PROPOSED 18" x 64,548' PIPELINE REPLACEMENT  
**PLAN & PROFILE**  
**2-EXXON PIPELINES (779+50)**  
ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA  
M.E. & A. DWG. NO. 13345-1, SHEET 46 OF 59

REV.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
0	5-5-16	ISSUED DRAWINGS	REK	JJM	JJM

**ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA**

SEC. 32, 80, 119, 120, 165 & 127, T14S-R15E SEC. 76, 69, 68, 61, 60 & 51 T13S-R15E, SEC. 62 & 50, T12S-R15E



**NOTE:**  
FOR TIE-IN PIT AND RING LEVEE  
SEE DETAIL ON SHEET 58 OF 59.



**NOTE:**  
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\* SEE SHEET 59 OF 59 FOR GENERAL NOTES AND REFERENCES.

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5/5/16

PREPARED BY:



Miller Engineers & Associates, Inc.



TEXAS BRINE COMPANY, LLC

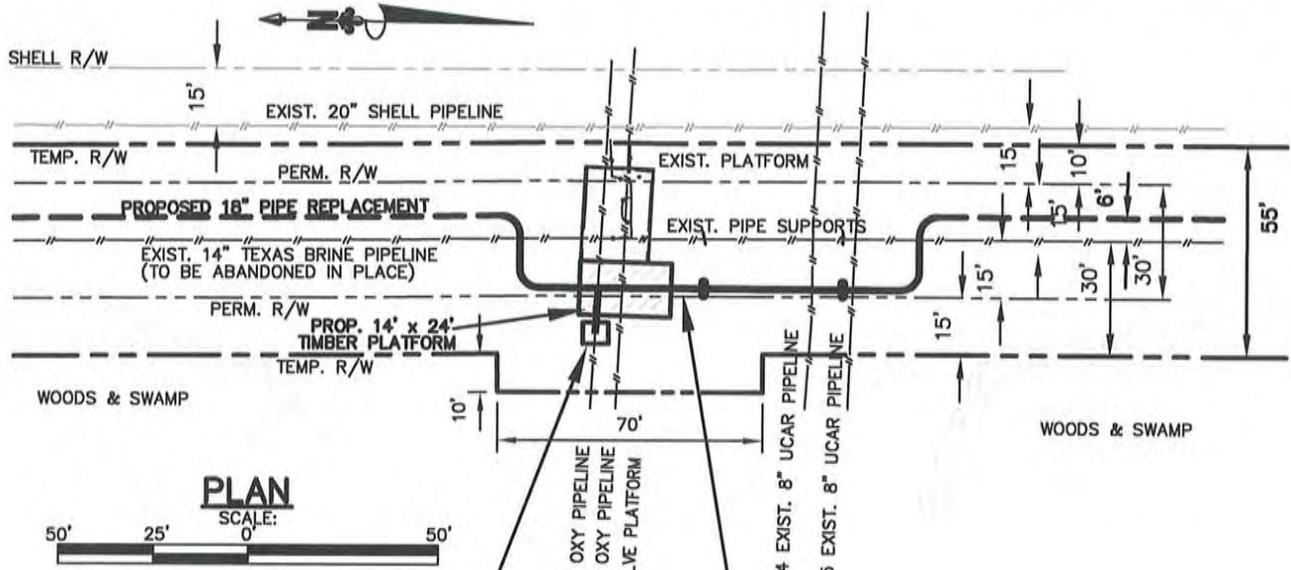
PERMIT APPLICATION FOR PROPOSED 18" x 64,548' PIPELINE REPLACEMENT  
**DETAIL & INSET OF ABOVE GROUND PLATFORM (832+96)**  
ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA

REV.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
0	5-5-16	ISSUED DRAWINGS	REK	JJM	JJM

M.E. & A. DWG. NO. 13345-1, SHEET 47 OF 59

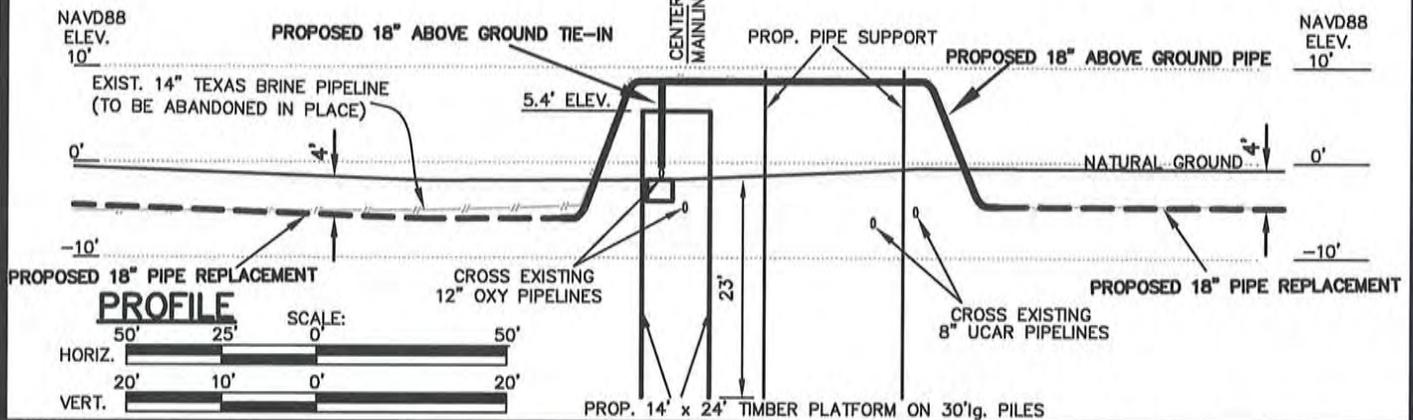
# ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA

SEC. 32, 80, 119, 120, 165 & 127, T14S-R15E SEC. 76, 69, 68, 61, 60 & 51 T13S-R15E, SEC. 62 & 50, T12S-R15E



**NOTE:**  
FOR TIE-IN PIT AND RING LEVEL  
SEE DETAIL ON SHEET 58 OF 59.

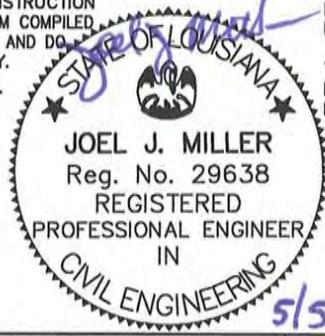
**PROPOSED 18" ABOVE GROUND PIPE**  
(SEE SHEET 47 OF 59 FOR DETAIL)



**NOTE:**  
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\* SEE SHEET 59 OF 59 FOR GENERAL NOTES AND REFERENCES.

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**TEXAS BRINE COMPANY, LLC**

PERMIT APPLICATION FOR  
PROPOSED 18" x 64,548'  
PIPELINE REPLACEMENT  
**PLAN & PROFILE**  
**ABOVE GROUND PLATFORM (832+96)**  
ASSUMPTION, LAFOURCHE &  
& ST. JAMES PARISHES, LOUISIANA

M.E. & A. DWG. NO. 13345-1, SHEET 48 OF 59

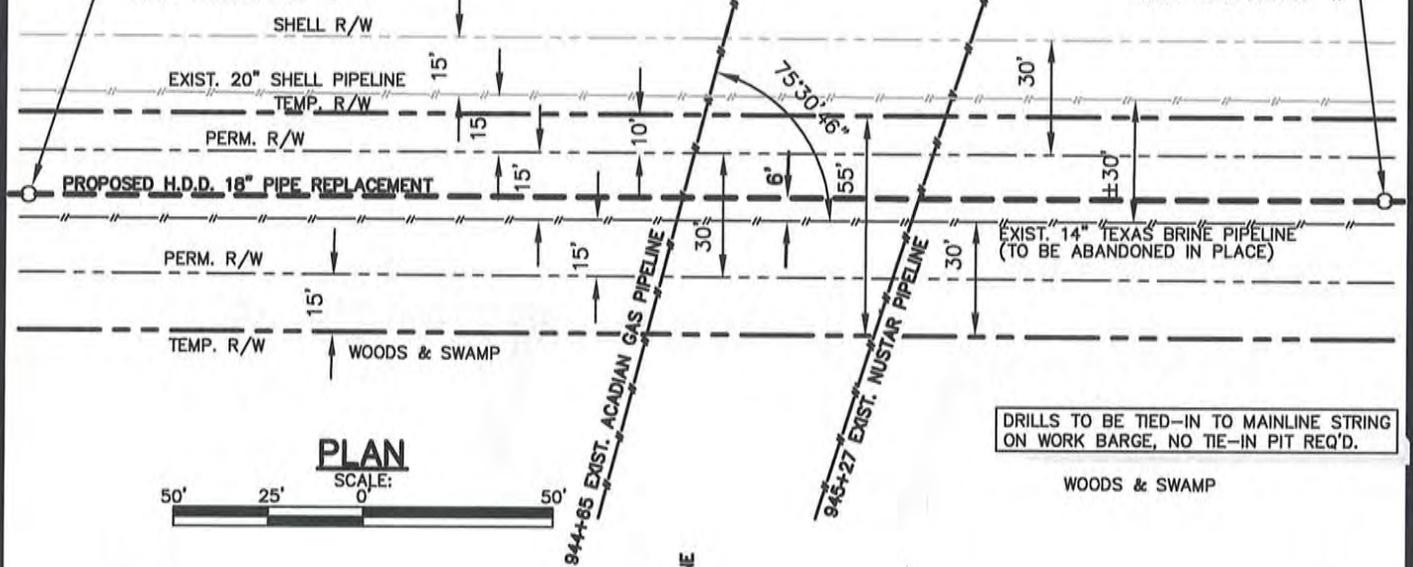
REV.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
0	5-5-16	ISSUED DRAWINGS	REK	JJM	JJM

# ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA

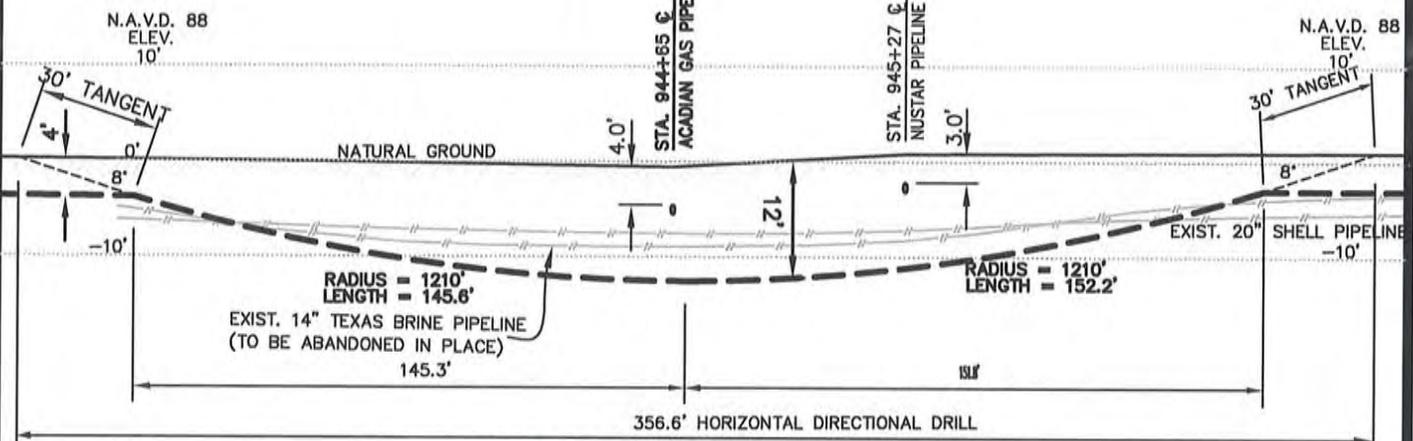
SEC. 32, 80, 119, 120, 165 & 127, T14S-R15E SEC. 76, 69, 68, 61, 60 & 51 T13S-R15E, SEC. 62 & 50, T12S-R15E

STA. 942+92.81 DRILL ENTRY:  
 N = 539,014.473  
 E = 3,422,409.155  
 LAT. 29°58'53.13822" N  
 LONG. 90°53'10.1169" W

STA. 946+49.41 DRILL EXIT:  
 N = 539,370.966  
 E = 3,422,402.324  
 LAT. 29°58'56.6675" N  
 LONG. 90°53'10.1787" W



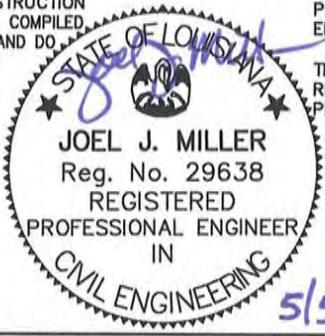
DRILLS TO BE TIED-IN TO MAINLINE STRING ON WORK BARGE, NO TIE-IN PIT REQ'D.



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 \* SEE SHEET 59 OF 59 FOR GENERAL NOTES AND REFERENCES.

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PREPARED BY:  
  
 Miller Engineers & Associates, Inc.

**TEXAS BRINE COMPANY, LLC**

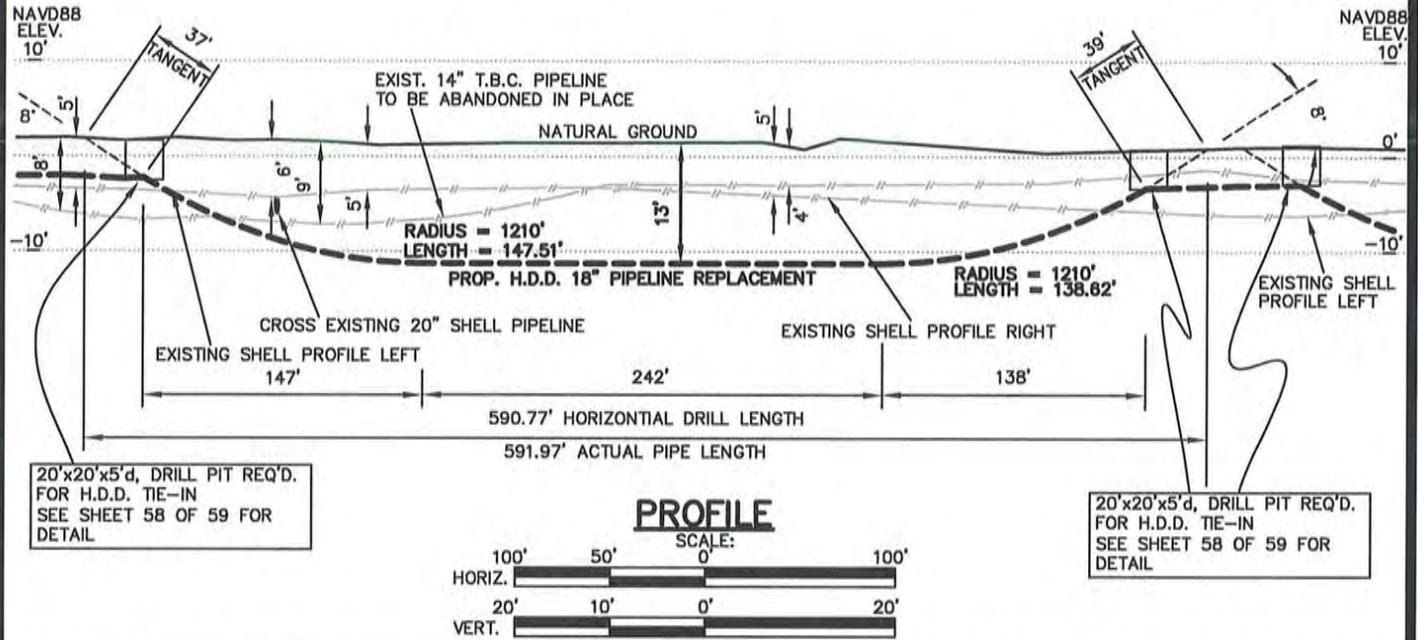
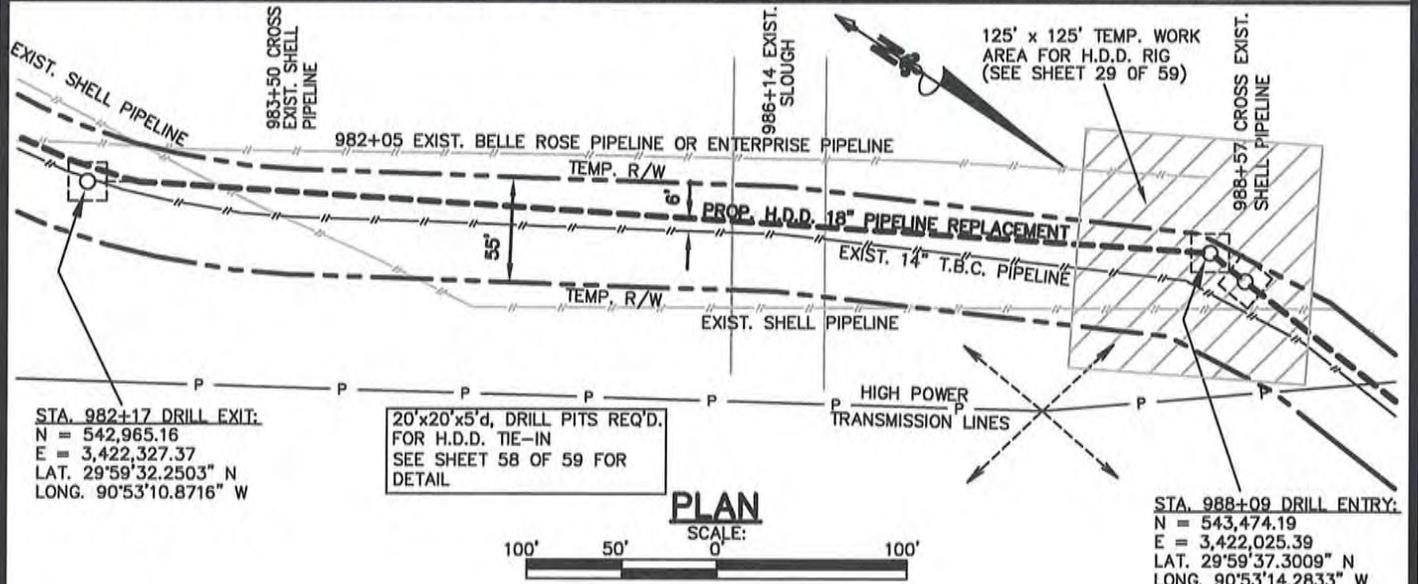
PERMIT APPLICATION FOR  
 PROPOSED 18" x 64,548'  
 PIPELINE REPLACEMENT  
**PLAN & PROFILE**  
**NUSTAR PIPELINE (945+27)**  
 ASSUMPTION, LAFOURCHE &  
 & ST. JAMES PARISHES, LOUISIANA

M.E. & A. DWG. NO. 13345-1, SHEET 49 OF 59

REV.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
0	5-5-16	ISSUED DRAWINGS	REK	JJM	JJM

**ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA**

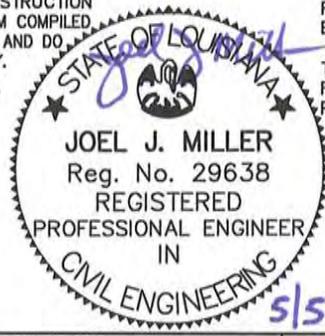
SEC. 32, 80, 119, 120, 165 & 127, T14S-R15E SEC. 76, 69, 68, 61, 60 & 51 T13S-R15E, SEC. 62 & 50, T12S-R15E



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 \* SEE SHEET 59 OF 59 FOR GENERAL NOTES AND REFERENCES.

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PREPARED BY:  
**MB & A**  
 Miller Engineers & Associates, Inc.

**TEXAS BRINE COMPANY, LLC**

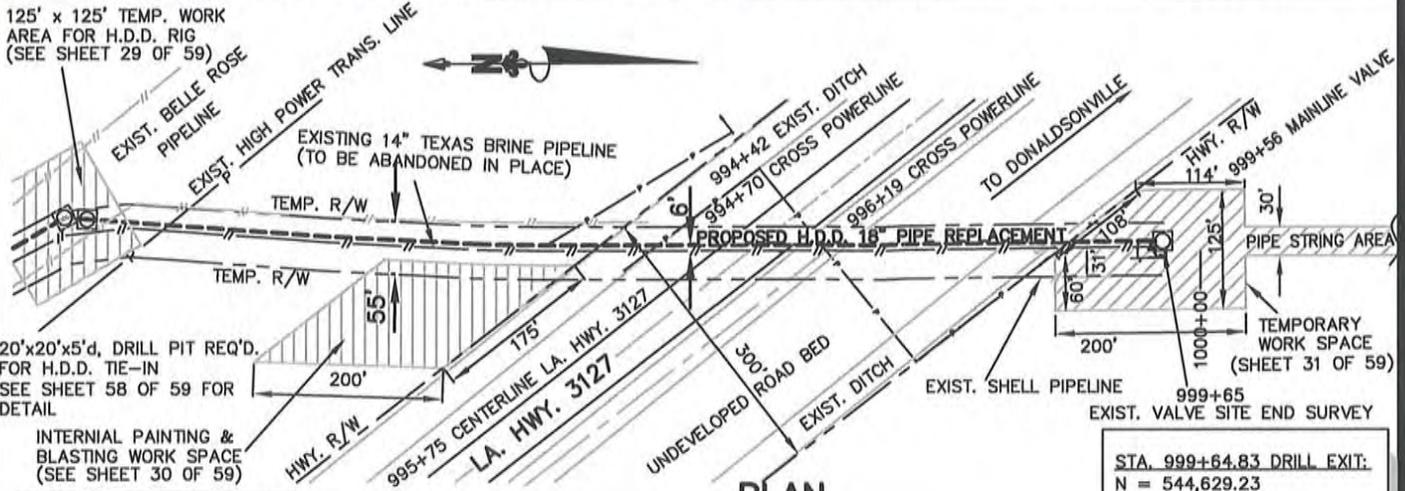
PERMIT APPLICATION FOR PROPOSED 18" x 64,548' PIPELINE REPLACEMENT  
**PLAN & PROFILE**  
**20" SHELL PIPELINE (983+50 & 988+57)**  
 ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA  
 M.E. & A. DWG. NO. 13345-1, SHEET 50 OF 59

REV.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
0	5-5-16	ISSUED DRAWINGS	REK	JJM	JJM

# ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA

SEC. 32, 80, 119, 120, 165 & 127, T14S-R15E SEC. 76, 69, 68, 61, 60 & 51 T13S-R15E, SEC. 62 & 50, T12S-R15E

125' x 125' TEMP. WORK AREA FOR H.D.D. RIG (SEE SHEET 29 OF 59)



20'x20'x5'd, DRILL PIT REQ'D. FOR H.D.D. TIE-IN SEE SHEET 58 OF 59 FOR DETAIL

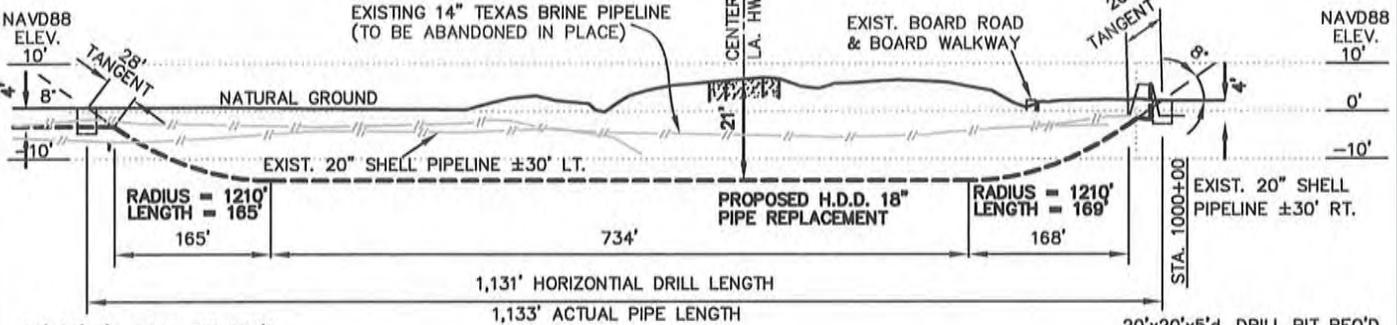
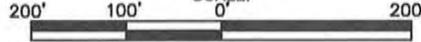
INTERNAL PAINTING & BLASTING WORK SPACE (SEE SHEET 30 OF 59)

STA. 988+33 DRILL ENTRY:  
 N = 543,497.93  
 E = 3,422,027.15  
 LAT. 29°59'37.5359" N  
 LONG. 90°53'14.2622" W

STA. 999+64.83 DRILL EXIT:  
 N = 544,629.23  
 E = 3,422,051.96  
 LAT. 29°59'48.7339" N  
 LONG. 90°53'13.9300" W

**PLAN**

SCALE:

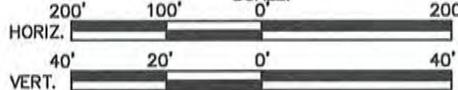


20'x20'x5'd, DRILL PIT REQ'D. FOR H.D.D. TIE-IN SEE SHEET 58 OF 59 FOR DETAIL

20'x20'x5'd, DRILL PIT REQ'D. FOR H.D.D. TIE-IN SEE SHEET 58 OF 59 FOR DETAIL

**PROFILE**

SCALE:



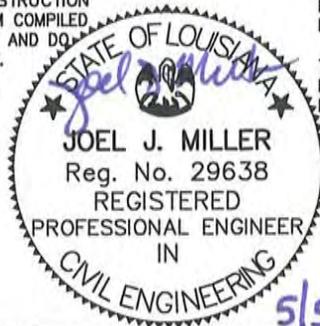
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\* SEE SHEET 59 OF 59 FOR GENERAL NOTES AND REFERENCES.

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PREPARED BY:



Miller Engineers & Associates, Inc.



**TEXAS BRINE COMPANY, LLC**

PERMIT APPLICATION FOR PROPOSED 18" x 64,548' PIPELINE REPLACEMENT

**PLAN & PROFILE**  
**LA. HWY. 3127**

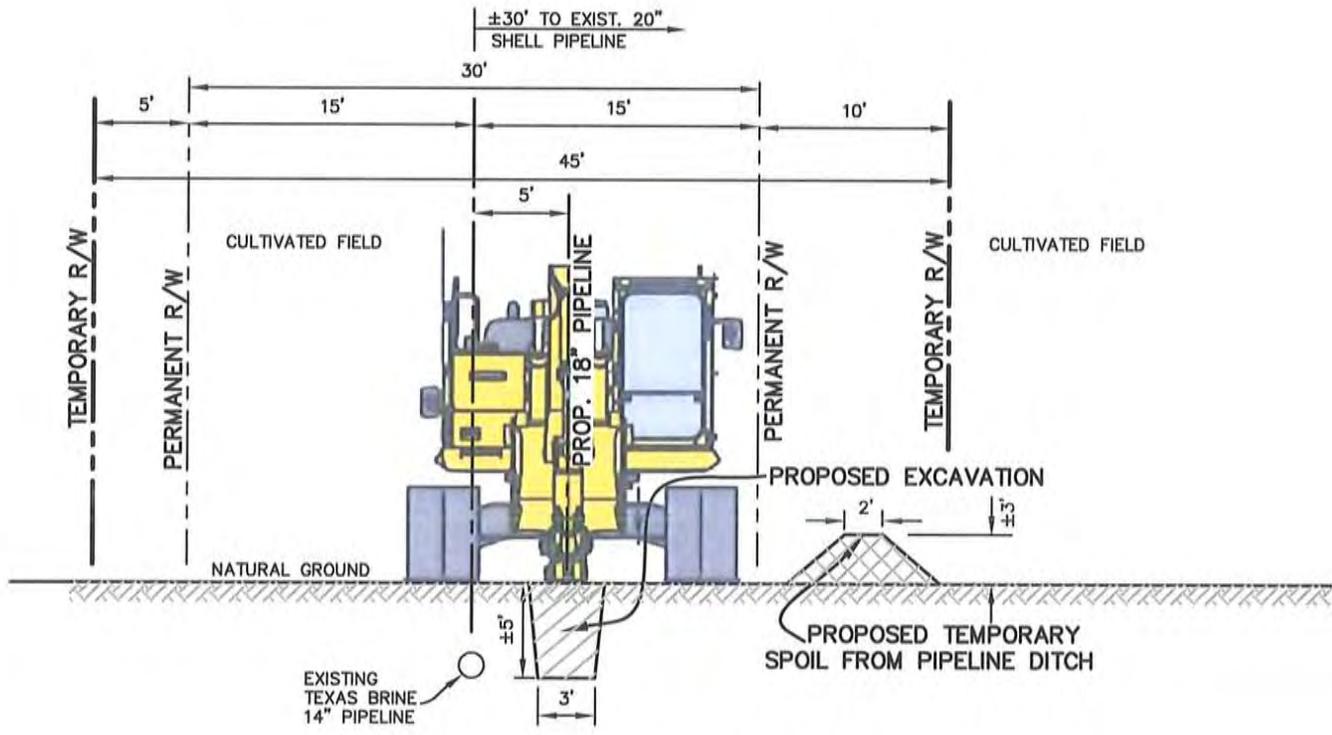
ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA

REV.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
0	5-5-16	ISSUED DRAWINGS	REK	JJM	JJM

M.E. & A. DWG. NO. 13345-1, SHEET 51 OF 59

**ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA**

SEC. 32, 80, 119, 120, 165 & 127, T14S-R15E SEC. 76, 69, 68, 61, 60 & 51 T13S-R15E, SEC. 62 & 50, T12S-R15E



**TYPICAL EXCAVATION DETAIL**



**NON-WET AREAS**

**NOTE:**

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\* SEE SHEET 59 OF 59 FOR GENERAL NOTES AND REFERENCES.

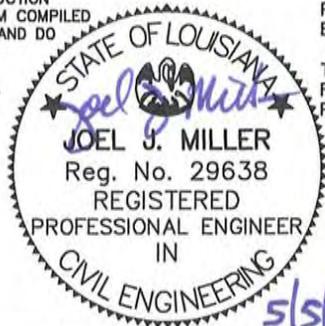
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PREPARED BY:



Miller Engineers & Associates, Inc.



**TEXAS BRINE COMPANY, LLC**

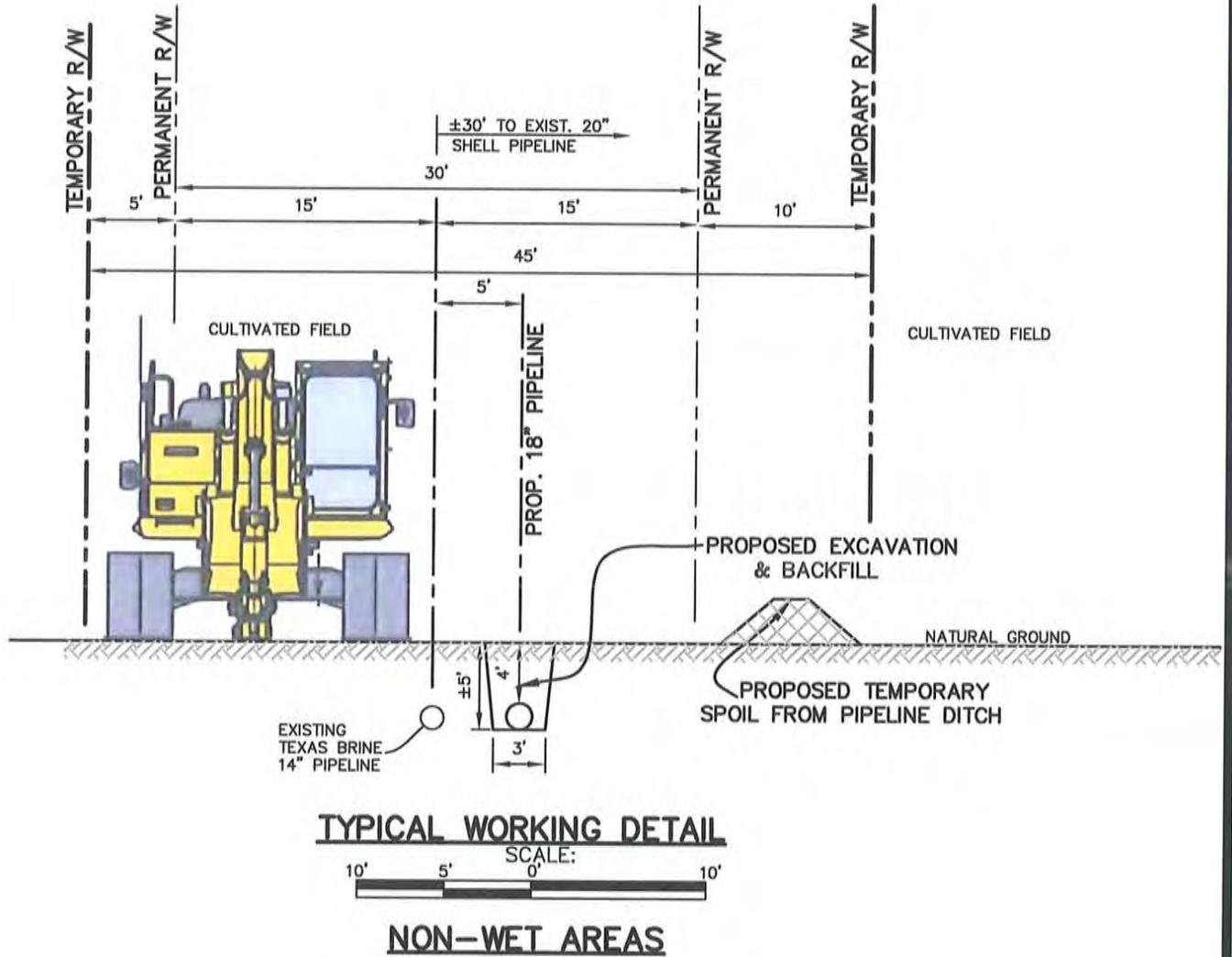
PERMIT APPLICATION FOR PROPOSED 18" x 64,548' PIPELINE REPLACEMENT  
**TYPICAL EXCAVATION DETAIL FOR NON-WET AREAS**  
 ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA

M.E. & A. DWG. NO. 13345-1, SHEET 52 OF 59

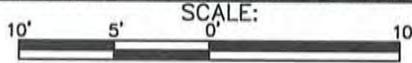
REV.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
0	5-5-16	ISSUED DRAWINGS	REK	JJM	JJM

**ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA**

SEC. 32, 80, 119, 120, 165 & 127, T14S-R15E SEC. 76, 69, 68, 61, 60 & 51 T13S-R15E, SEC. 62 & 50, T12S-R15E



**TYPICAL WORKING DETAIL**



**NON-WET AREAS**

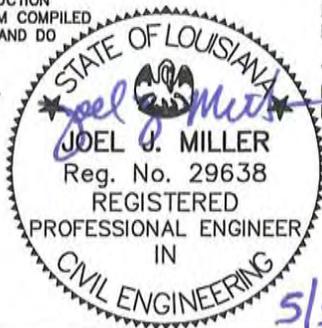
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PREPARED BY:



Miller Engineers & Associates, Inc.



TEXAS BRINE COMPANY, LLC

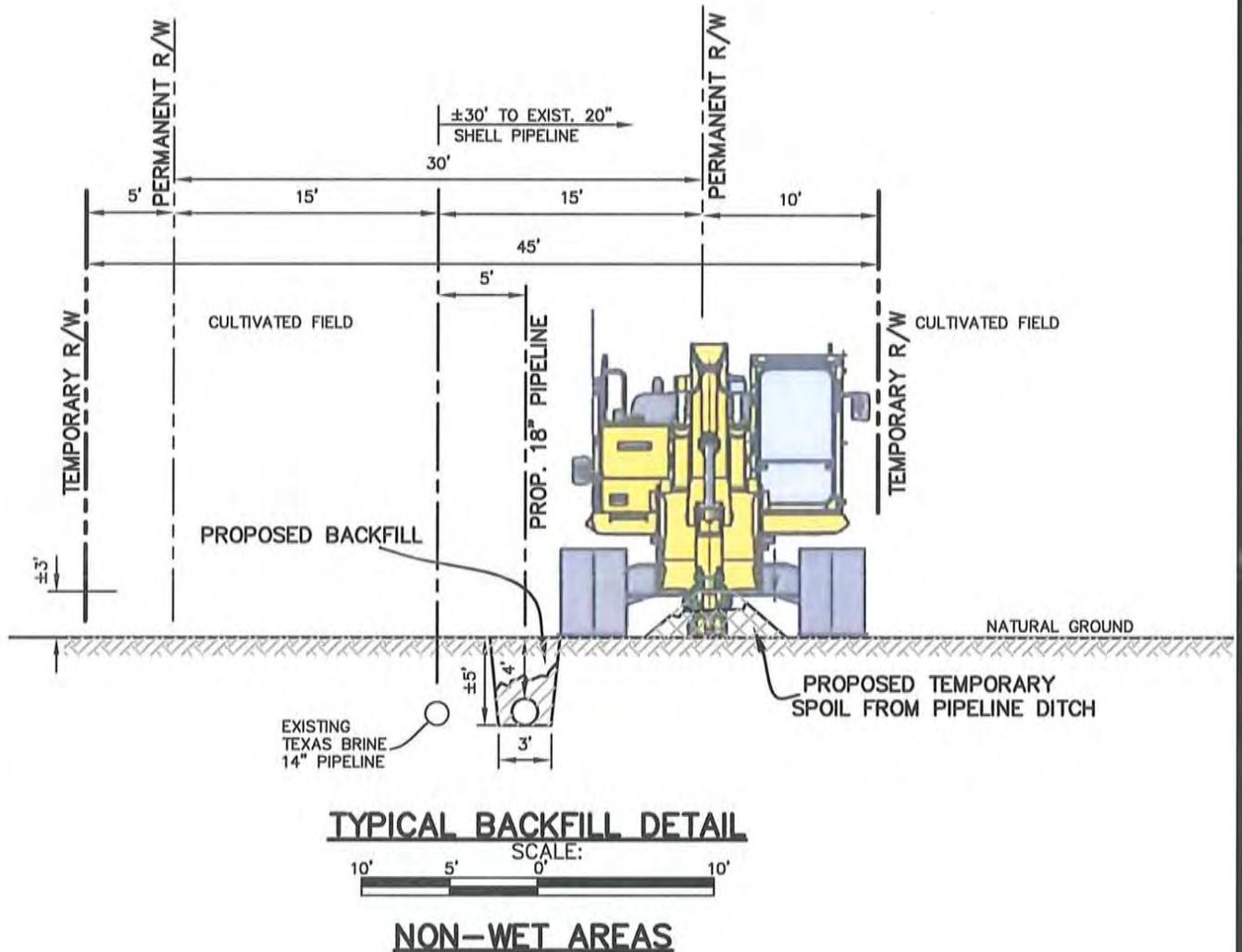
PERMIT APPLICATION FOR PROPOSED 18" x 64,548' PIPELINE REPLACEMENT  
**TYPICAL WORKING DETAIL FOR NON-WET AREAS**  
 ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA

REV.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
0	5-5-16	ISSUED DRAWINGS	REK	JJM	JJM

M.E. & A. DWG. NO. 13345-1, SHEET 53 OF 59

**ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA**

SEC. 32, 80, 119, 120, 165 & 127, T14S-R15E SEC. 76, 69, 68, 61, 60 & 51 T13S-R15E, SEC. 62 & 50, T12S-R15E



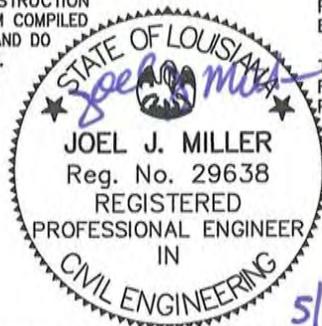
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\* SEE SHEET 59 OF 59 FOR GENERAL NOTES AND REFERENCES.

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PREPARED BY:



Miller Engineers & Associates, Inc.



**TEXAS BRINE COMPANY, LLC**

PERMIT APPLICATION FOR PROPOSED 18" x 64,548' PIPELINE REPLACEMENT

**TYPICAL BACKFILL DETAIL FOR NON-WET AREAS**

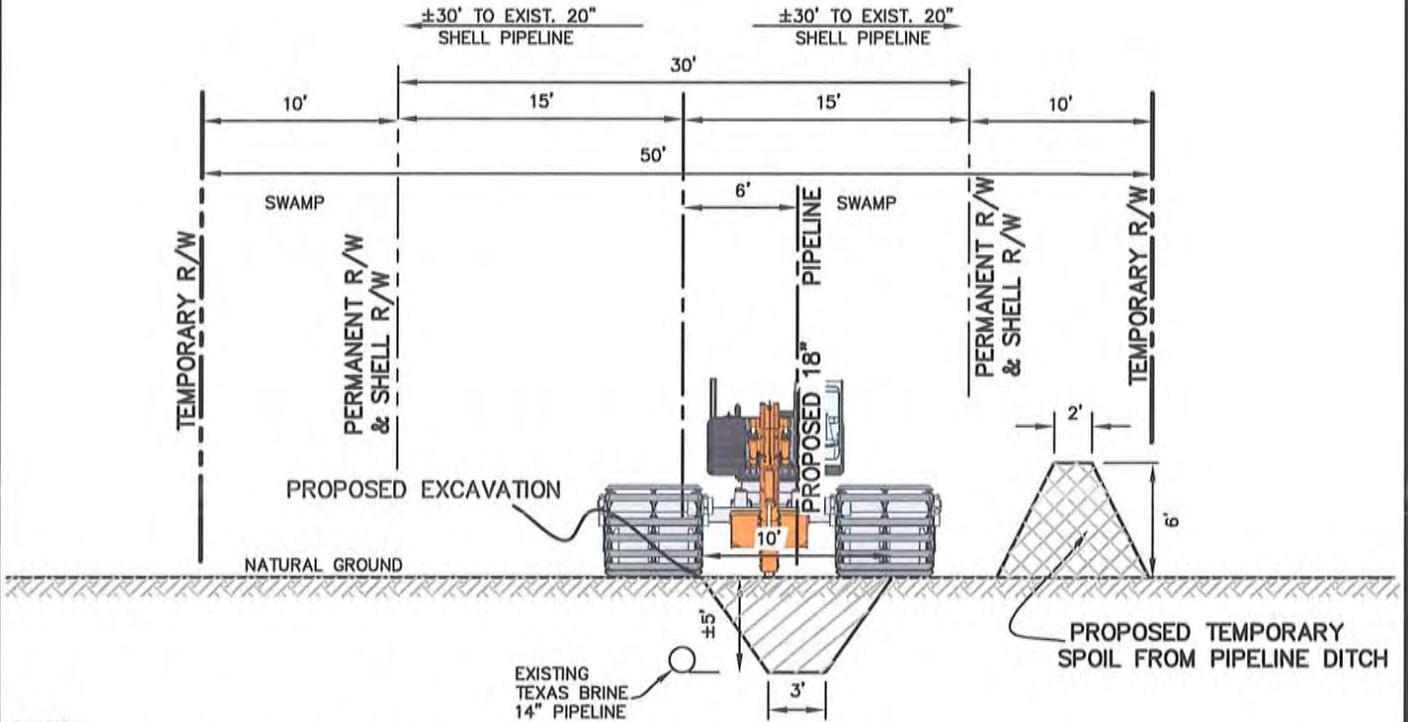
ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA

REV.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
0	5-5-16	ISSUED DRAWINGS	REK	JJM	JJM

M.E. & A. DWG. NO. 13345-1, SHEET 54 OF 59

**ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA**

SEC. 32, 80, 119, 120, 165 & 127, T14S-R15E SEC. 76, 69, 68, 61, 60 & 51 T13S-R15E, SEC. 62 & 50, T12S-R15E



**NOTE:**

DETAIL SHOWN IS TYPICAL AS SHOWN FROM STA. 493+44 TO STA. 606+91. FROM STA. 606+91 TO 983+00 TEMP. SPOIL WILL BE LOCATED ON WEST SIDE OF PIPELINE DITCH AND EQUIPMENT WORKING AREA WILL BE ON EAST SIDE OF PIPELINE DITCH.

**TYPICAL EXCAVATION DETAIL**



**WET AREAS**

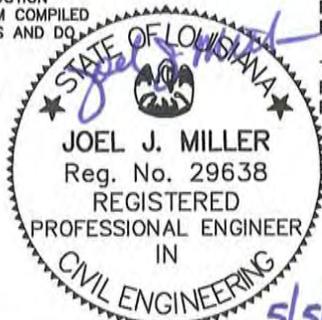
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\* SEE SHEET 59 OF 59 FOR GENERAL NOTES AND REFERENCES.

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PREPARED BY:



Miller Engineers & Associates, Inc.



**TEXAS BRINE COMPANY, LLC**

PERMIT APPLICATION FOR PROPOSED 18" x 64,548' PIPELINE REPLACEMENT  
**TYPICAL EXCAVATION DETAIL FOR WET AREAS**  
 ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA

REV.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
0	5-5-16	ISSUED DRAWINGS	REK	JJM	JJM

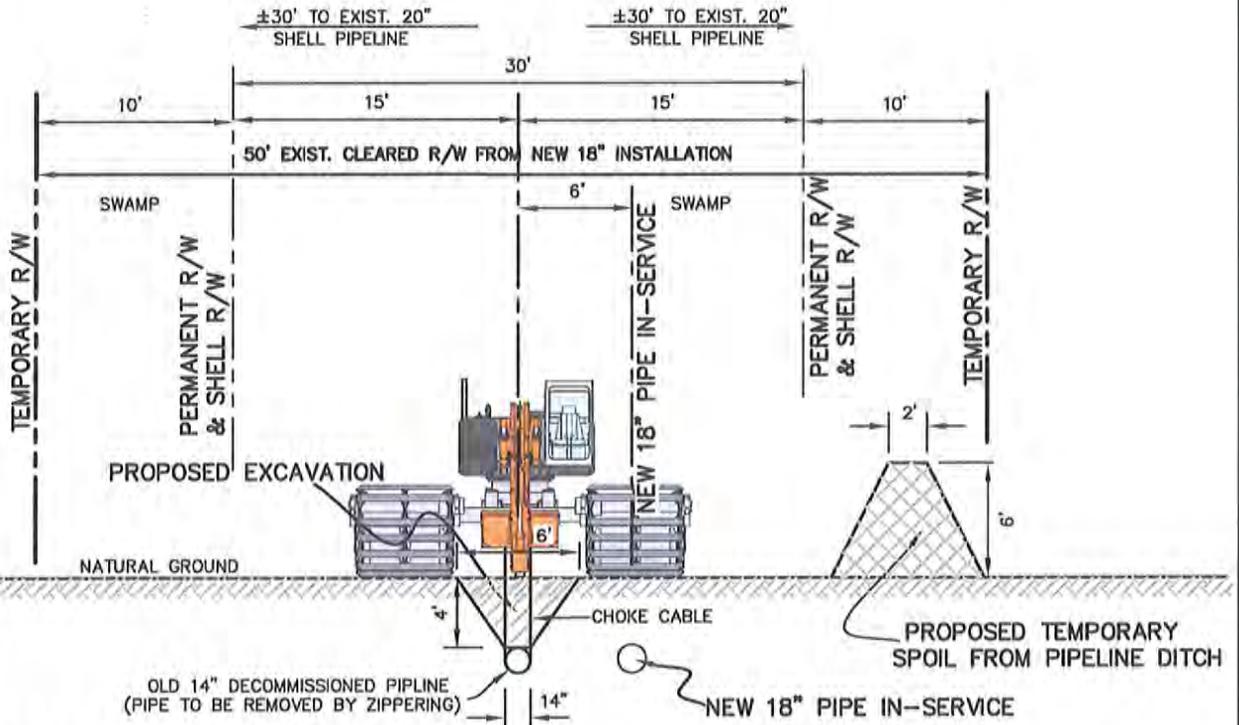
M.E. & A. DWG. NO. 13345-1, SHEET 55 OF 59

**ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA**

SEC. 32, 80, 119, 120, 165 & 127, T14S-R15E SEC. 76, 69, 68, 61, 60 & 51 T13S-R15E, SEC. 62 & 50, T12S-R15E

**NOTES:**

1. REMOVAL OF OLD 14" BRINE PIPELINE WILL NOT CAUSE ANY ADDITIONAL WET LAND IMPACTS. NOR REQUIRE ANY ADDITIONAL WORKSPACE.
2. ONCE LINE IS PULLED UP INTO DITCH, IT WILL BE PULLED TO THE "PUSH SITES" AND CUT INTO LENGTHS THAT CAN BE HAULED OUT VIA TRACTOR TRAILERS.



**NOTE:**

DETAIL SHOWN IS TYPICAL AS SHOWN FROM STA. 493+44 TO STA. 606+91. FROM STA. 606+91 TO 983+00 TEMP. SPOIL WILL BE LOCATED ON WEST SIDE OF PIPELINE DITCH AND EQUIPMENT WORKING AREA WILL BE ON EAST SIDE OF PIPELINE DITCH.

**TYPICAL EXCAVATION DETAIL FOR 14" PIPE REMOVAL**



**WET AREAS**

**NOTE:**

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\* SEE SHEET 59 OF 59 FOR GENERAL NOTES AND REFERENCES.

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TEXAS BRINE COMPANY, LLC

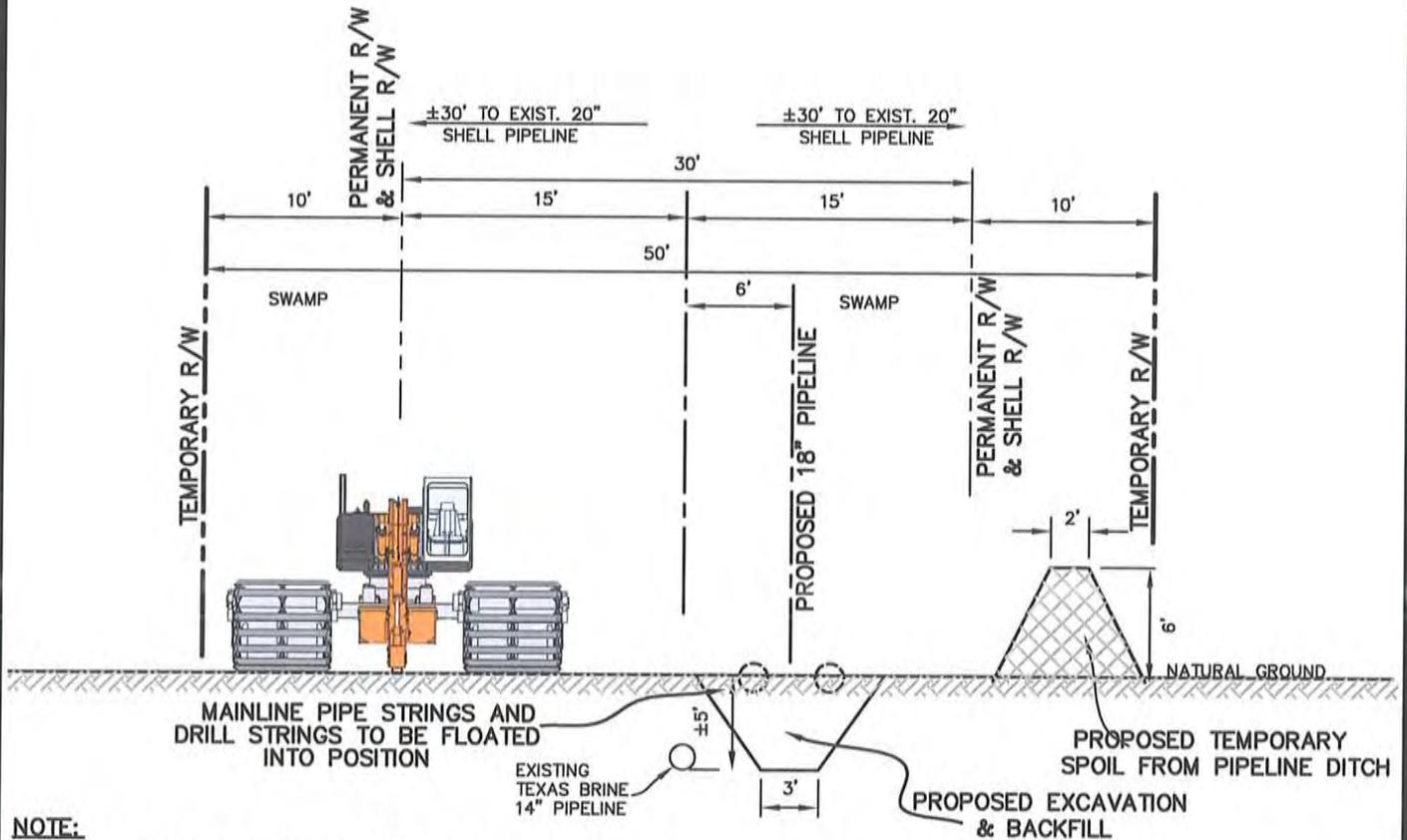
PERMIT APPLICATION FOR PROPOSED 18" x 64,548' PIPELINE REPLACEMENT  
**TYPICAL EXCAVATION DETAIL FOR WET AREAS**  
 ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA

M.E. & A. DWG. NO. 13345-1, SHEET 55-A OF 59

REV.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
0	9-9-16	ISSUED DRAWING	REK	JJM	JJM

**ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA**

SEC. 32, 80, 119, 120, 165 & 127, T14S-R15E SEC. 76, 69, 68, 61, 60 & 51 T13S-R15E, SEC. 62 & 50, T12S-R15E



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**TYPICAL WORKING DETAIL**



**WET AREAS**

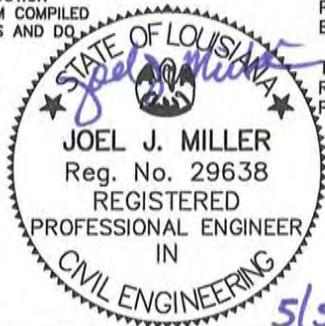
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**TEXAS BRINE COMPANY, LLC**

PERMIT APPLICATION FOR  
PROPOSED 18" x 64,548'  
PIPELINE REPLACEMENT  
**TYPICAL WORKING DETAIL  
FOR WET AREAS**  
ASSUMPTION, LAFOURCHE &  
& ST. JAMES PARISHES, LOUISIANA

M.E. & A. DWG. NO. 13345-1, SHEET 56 OF 59

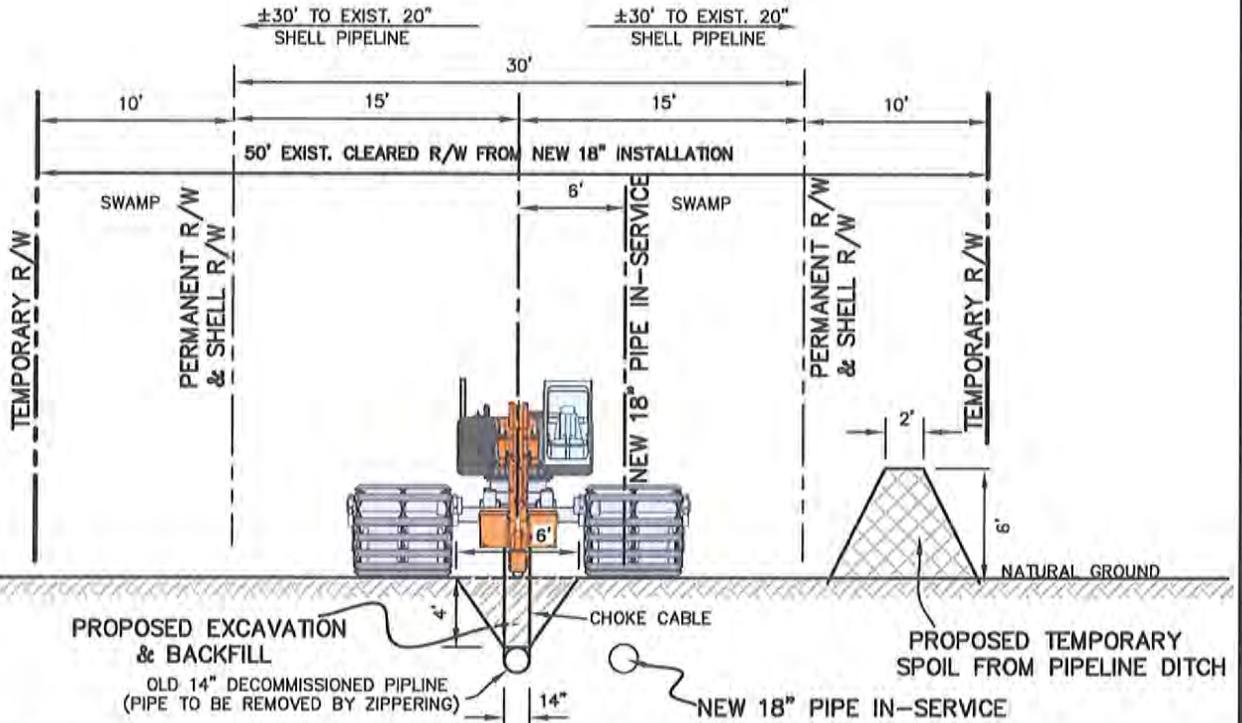
REV.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
0	5-5-16	ISSUED DRAWINGS	REK	JJM	JJM

**ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA**

SEC. 32, 80, 119, 120, 165 & 127, T14S-R15E SEC. 76, 69, 68, 61, 60 & 51 T13S-R15E, SEC. 62 & 50, T12S-R15E

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**TYPICAL WORKING DETAIL FOR 14" PIPE REMOVAL**



**WET AREAS**

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TEXAS BRINE COMPANY, LLC

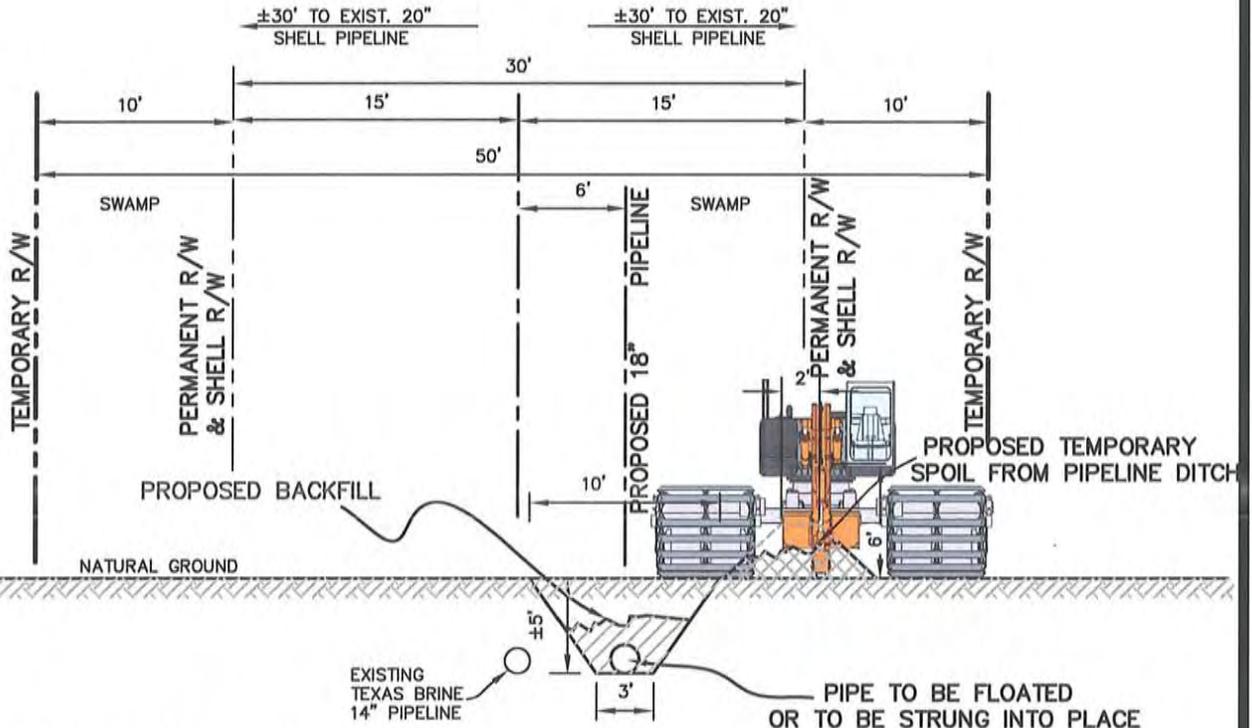
PERMIT APPLICATION FOR PROPOSED 18" x 64,548' PIPELINE REPLACEMENT  
**TYPICAL WORKING DETAIL FOR WET AREAS**  
ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA

M.E. & A. DWG. NO. 13345-1, SHEET 56-A OF 59

REV.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
0	9-9-16	ISSUED DRAWING	REK	JJM	JJM

**ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA**

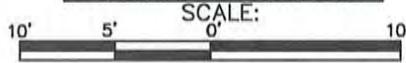
SEC. 32, 80, 119, 120, 165 & 127, T14S-R15E SEC. 76, 69, 68, 61, 60 & 51 T13S-R15E, SEC. 62 & 50, T12S-R15E



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**TYPICAL BACKFILL**



**WET AREAS**

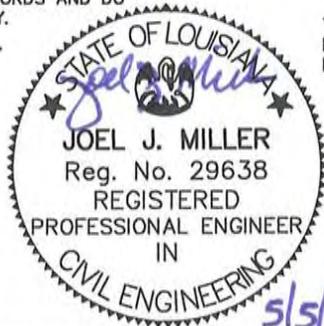
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PREPARED BY:



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TEXAS BRINE COMPANY, LLC

PERMIT APPLICATION FOR PROPOSED 18" x 64,548' PIPELINE REPLACEMENT  
**TYPICAL BACKFILL DETAIL FOR WET AREAS**  
 ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA

REV.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
0	5-5-16	ISSUED DRAWINGS	REK	JJM	JJM

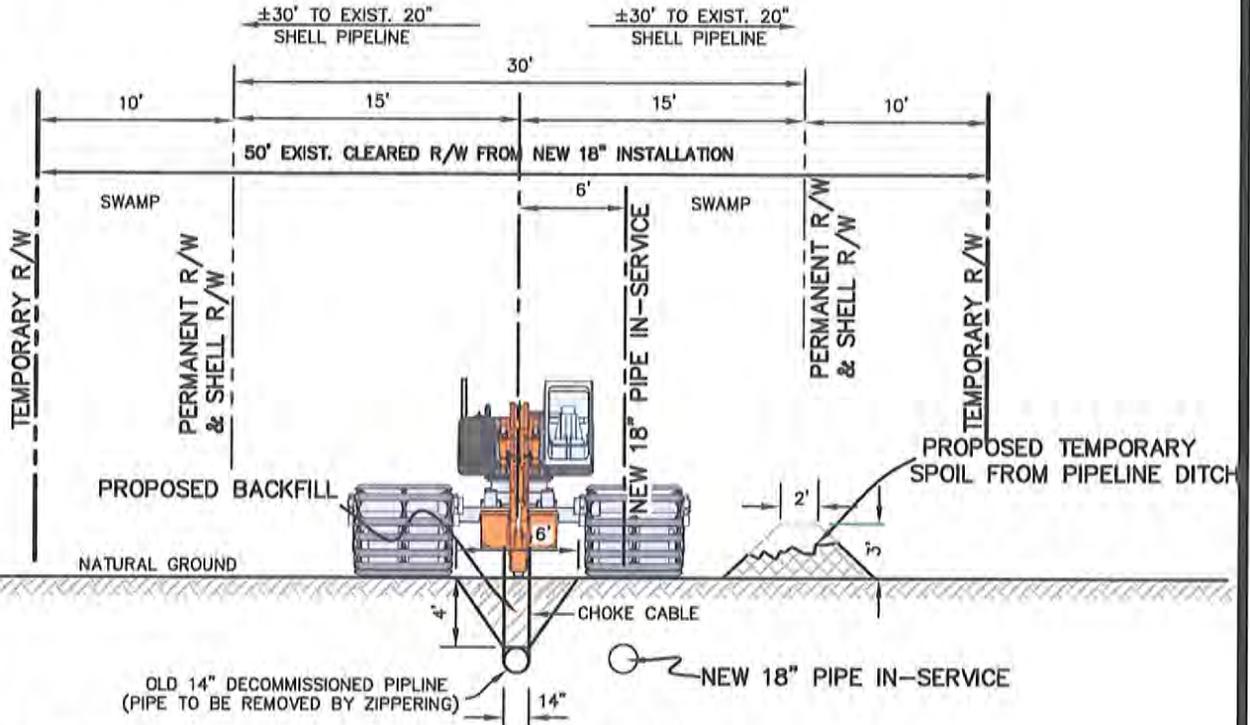
M.E. & A. DWG. NO. 13345-1, SHEET 57 OF 59

**ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA**

SEC. 32, 80, 119, 120, 165 & 127, T14S-R15E SEC. 76, 69, 68, 61, 60 & 51 T13S-R15E, SEC. 62 & 50, T12S-R15E

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**TYPICAL BACKFILL FOR 14" PIPE REMOVAL**  
SCALE: 10' 5' 0' 10'  
**WET AREAS**

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PERMIT APPLICATION FOR PROPOSED 18" x 64,548' PIPELINE REPLACEMENT  
**TYPICAL BACKFILL DETAIL FOR WET AREAS**

ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA

M.E. & A. DWG. NO. 13345-1, SHEET 57-A OF 59

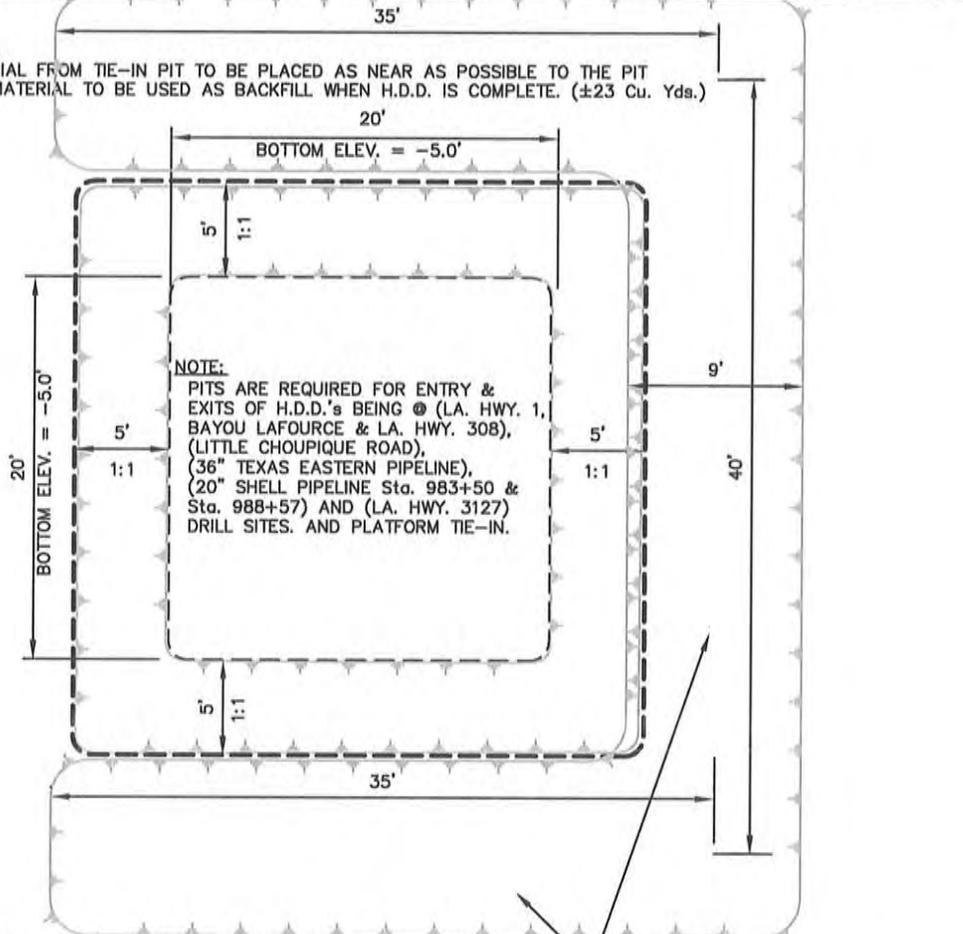
REV.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
0	9-9-16	ISSUED DRAWING	REK	JJM	JJM

# ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA

SEC. 32, 80, 119, 120, 165 & 127, T14S-R15E SEC. 76, 69, 68, 61, 60 & 51 T13S-R15E, SEC. 62 & 50, T12S-R15E

NOTE: EXCAVATED MATERIAL FROM TIE-IN PIT TO BE PLACED AS NEAR AS POSSIBLE TO THE PIT AND EXCAVATED MATERIAL TO BE USED AS BACKFILL WHEN H.D.D. IS COMPLETE. (±23 Cu. Yds.)

NOTE: 0.02 ACRE OF SPOIL ON EACH PIT SITE.  
NOTE: 0.02 ACRE OF EXCAVATION ON EACH PIT SITE.



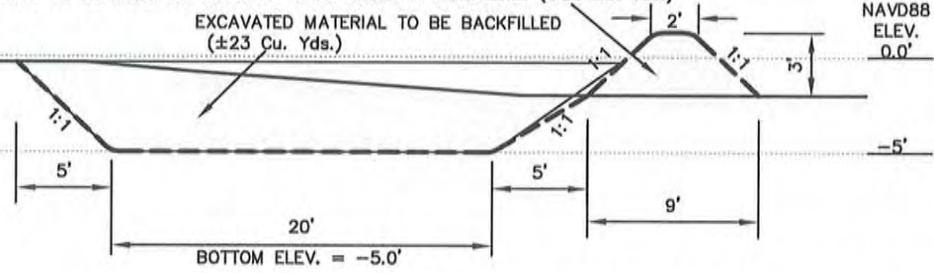
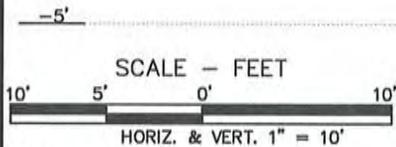
NOTE: EXCAVATED MATERIAL FROM TIE-IN PIT TO BE PLACED AS NEAR AS POSSIBLE TO THE PIT AND EXCAVATED MATERIAL TO BE USED AS BACKFILL WHEN H.D.D. IS COMPLETE. (±23 Cu. Yds.)

NAVD88 ELEV. 0.0'

EXIST. NAT. GRD.

EXCAVATED MATERIAL TO BE BACKFILLED (±23 Cu. Yds.)

NAVD88 ELEV. 0.0'



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TEXAS BRINE COMPANY, LLC

PERMIT APPLICATION FOR PROPOSED 18" x 64,548' PIPELINE REPLACEMENT  
**PLAN & PROFILE DETAILS FOR H.D.D. PITS**  
ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA

M.E. & A. DWG. NO. 13345-1, SHEET 58 OF 59

REV.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
0	5-5-16	ISSUED DRAWINGS	REK	JJM	JJM

# ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA

SEC. 32, 80, 119, 120, 165 & 127, T14S-R15E SEC. 76, 69, 68, 61, 60 & 51 T13S-R15E, SEC. 62 & 50, T12S-R15E

**NOTES:**

1. NORTH ARROW AND GRID COORDINATES REFER TO THE LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE (NORTH AMERICAN DATUM OF 1983 (NAD 83)). BASED ON RTK GPS OBSERVATIONS.
2. ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM (N.A.V.D. 88). BASED ON RTK GPS OBSERVATIONS.
3. DISTANCES IN FEET BY HORIZONTAL MEASUREMENT.
4. PARISH, SECTION, TOWNSHIP, AND RANGE SCALED FROM REFERENCED U.S.C & G.S. QUADRANGLES, LABADIEVILLE, THIBODAUX, MADEWOOD, LAGAN, DONALDSONVILLE & CONVENT, LA. 1994.
5. PROPOSED EXCAVATION LOCATIONS AND DIMENSIONS ARE APPROXIMATE BASED ON DATA PROVIDED BY TEXAS BRINE CO., LLC.
6. SURVEY PARTY CHIEF: KEVIN PICHOFF, HERSHEL SAUCE
7. DATE OF SURVEY: SEPTEMBER 3, 2015 - FEBRUARY 16, 2016
8. "AS-BUILT" DRAWING AND/OR PLATS SHALL HAVE WRITTEN ON THEM THE DATE OF COMPLETION OF SAID ACTIVITIES AND SHALL BE SUBMITTED TO THE LOUISIANA DEPARTMENT OF NATURAL RESOURCES, OFFICE OF COASTAL MANAGEMENT, P.O. BOX 44487, BATON ROUGE, LA. 70804-4487 WITHIN 30 DAYS FOLLOWING PROJECT COMPLETION.
9. ALL STRUCTURES BUILT UNDER THE AUTHORIZATION AND CONDITIONS OF THIS PERMIT SHALL BE REMOVED FROM THE SITE WITH 120 DAYS OF ABANDONMENT OF THE FACILITIES FOR THE HEREIN PERMITTED USE, OR WHEN THESE STRUCTURES FALL INTO A STATE OF DISREPAIR SUCH THAT THEY CAN NO LONGER FUNCTION AS INTENDED. 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.
10. STRUCTURES MUST ALSO BE MARKED/LIGHTED IN ACCORDANCE WITH U.S. COAST GUARD REGULATIONS.
11. IN ORDER TO ENSURE THE SAFETY OF ALL PARTIES, THE PERMITEE 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.

**SUMMARY OF CONSTRUCTION EQUIPMENT**

DESCRIPTION	QUANTITY
AMPHIBIOUS TRACK EXCAVATOR (60' REACH) (FOR TRENCH EXCAVATION)	2
AMPHIBIOUS TRACK EXCAVATOR (60' REACH) (FOR CHIPPING)	2
AMPHIBIOUS TRACK EXCAVATOR (35' REACH) (FOR TRENCH EXCAVATION)	1
NON-AMPHIBIOUS TRACK EXCAVATOR (35' REACH) (FOR TRENCH EXCAVATION)	2
AIRBOAT	1

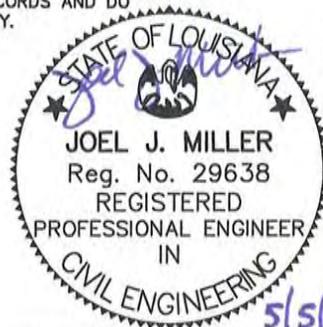
FORESTED WETLAND (BLH) ACRES IMPACTED = APPROX. 4.47 Ac.  
 FORESTED WETLAND (CT) ACRES IMPACTED = APPROX. 19.41 Ac.  
 EMERGENT WETLAND ACRES IMPACTED = APPROX. 39.07 Ac.  
 TOTAL WETLAND ACRES IMPACTED = APPROX. 62.95 Ac.  
 SECTION 10 WATERS ACRES IMPACTED = APPROX. 0.43 Ac.  
 OTHER WATERS ACRES IMPACTED = APPROX. 0.26 Ac.  
 TOTAL CU. YDS. NATIVE MATERIAL EXC. & BACKFILLED REQ'D. = 66,969  
 TOTAL CU. YDS. H.D.D. EXCAVATION REQ'D. = 336  
 TOTAL ACRES EXCAVATION (NON-WET) REQ'D. = 1.50  
 TOTAL ACRES EXCAVATION (WET) REQ'D. = 11.72  
 TOTAL ACRES TEMP. SPOIL DEPOSIT (NON-WET) = 1.45  
 TOTAL ACRES TEMP. SPOIL DEPOSIT (WET) = 10.70

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PERMIT APPLICATION FOR PROPOSED 18" x 64,548' PIPELINE REPLACEMENT

**GENERAL NOTES AND REFERENCES**

ASSUMPTION, LAFOURCHE & ST. JAMES PARISHES, LOUISIANA

M.E. & A. DWG. NO. 13345-1, SHEET 59 OF 59

REV.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
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