

JOINT PUBLIC NOTICE

August 31, 2020

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

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

Project Manager: James W. Little, Jr.
(225) 342-3099 / fax: (225) 342-9439
James.little@usace.army.mil
Permit Application Number:
MVN-2019-00821-WII

Project Manager: Elizabeth Hill
(225) 219-3225 / fax: (225) 219-3156
Elizabeth.Hill@la.gov
WQC Application Number:
WQC 200819-01

Interested parties are hereby notified that a permit application has been received by the New Orleans District of the U.S. Army Corps of Engineers pursuant to: [] Section 10 of the Rivers and Harbors Act of March 3, 1899 (30 Stat. 1151; 33 USC 403); and/or [] Section 404 of the Clean Water Act (86 Stat. 816; 33 USC 1344).

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

CONSTRUCT AND MODIFY FACILITIES AT SEVEN LOCATIONS FOR THE CAMERON EXTENSION PROJECT IN CAMERON, CALCASIEU, BEAUREGARD, AND JEFFERSON DAVIS PARISHES

NAME OF APPLICANT: Texas Eastern Transmission, LP, c/o Edge Engineering and Science, LLC, Attn: Ms. Louise Holley, 16285 Park Ten Place, Suite 400, Houston, TX 77084.

LOCATION OF WORK: The work is to take place at seven different locations. The Gillis Compressor Station located approximately 6.7 miles northeast of Gillis, Louisiana, in Beauregard Parish, 30.459169, -93.1457; Momentum M & R Station approximately 6.6 miles northeast of Gillis, Louisiana, in Beauregard Parish, 30.454139, -93.1399; Iowa Plant approximately 2.5 miles northwest of Iowa, Louisiana, Jefferson Davis Parish, 30.275836, -93.025853; Trunkline M & R Station approximately 2.5 miles northwest of Iowa, Louisiana, Jefferson Davis Parish, 30.279833, -93.028122; East Calcasieu Compressor Station approximately 4.9 miles northwest of Bell City, Louisiana, in Calcasieu Parish, 30.155339, -93.034244; Grand Chenier Compressor Station approximately 4.4 miles northeast of Creole, Louisiana, Cameron Parish, 29.816522, -93.041053; TransCameron M & R Station and TransCameron M & R Interconnecting Piping approximately 4 miles southeast of Creole, Louisiana, Cameron Parish, 29.779917, -93.046269.

CHARACTER OF WORK: The applicant has requested a Department of the Army (DA) authorization to construct, install, maintain and operate new facilities and make modifications to existing facilities, for transporting natural gas to the Venture Global Calcasieu Pass LNG Facility. New work will include a new compressor station (East Calcasieu Compressor Station) with associated appurtenances; a new delivery metering and regulating station and related facilities (TransCameron M & R Station and piping), to include 0.2 miles of 30" interconnecting pipe; construct a new receipt M & R station (Momentum M & R Station) and related facilities at a new interconnect with Momentum Midstream; and construct a new bi-directional M & R Station (Trunkline M & R Station) with related facilities at a new interconnect with Trunkline. Modifications to existing facilities would include the installation of equipment, including a filter separator and regulator at the Gillis Compressor Station; modifications to existing launcher and receiver facilities and piping modifications to bypass Texas Eastern's existing Iowa Plant; and modifications to the existing launcher and receiver and isolation and piping modifications to bypass Texas Eastern's existing Grand Chenier Compressor Station. The proposed project will require approximately 34,659 cubic yards of fill material, with 20,963 cubic yards being placed in wetlands. Activities will also require the excavation of approximately 6,111 cubic yards of material, with 2,938 cubic yards excavated in wetlands. Following construction, areas temporarily impacted by the project will be restored to pre-construction grade and allowed to revegetate. Project implementation would temporarily impact approximately 59.29 acres of PEM wetlands and 1.29 acres of PSS. In addition, approximately 4.67 acres of PEM wetlands will be permanently impacted. The applicant proposes to offset unavoidable wetland impacts by purchasing mitigation credits from Corps-approved mitigation banks within the New Orleans District, if a DA permit is warranted.

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 submitted 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 forwarded to the Corps of Engineers at the address above, **ATTENTION: REGULATORY BRANCH.** Individuals or parties may request an extension of time in which to comment on the proposed work by writing, faxing, 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.

The application for this proposed project is on file with the Louisiana Department of Environmental Quality and may be examined during weekdays between 8:00 a.m. and 4:30 p.m. Copies may be obtained upon payment of costs of reproduction.

Corps of Engineers Permit Criteria

The decision whether to issue a permit will be based on an evaluation of the probable impacts, including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership and, in general, the needs and welfare of the people.

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

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

Based on the **Information & Planning Consultation for Endangered Species in Louisiana (IPaC)**, as signed on January 27, 2020, between the U.S. Army Corps of Engineers, New Orleans and the U.S. Fish and Wildlife Service, the proposed project was evaluated under the determination key on August 25, 2020 and it has been determined that the proposed project will "Not likely to adversely Affect" the Louisiana Pine Snake (*Pituophis ruthveni*) and have No Effect on the Red Cockaded Woodpecker (*Picoides borealis*), American Chaff seed (*Schwalbea Americana*), and the West Indian Manatee (*Trichechus manatus*).

This notice initiates the Essential Fish Habitat (EFH) consultation requirements of the Magnuson-Stevens Fishery Conservation and Management Act. The applicant's proposal may result in the destruction, alteration or disturbance 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, before a permit is issued.

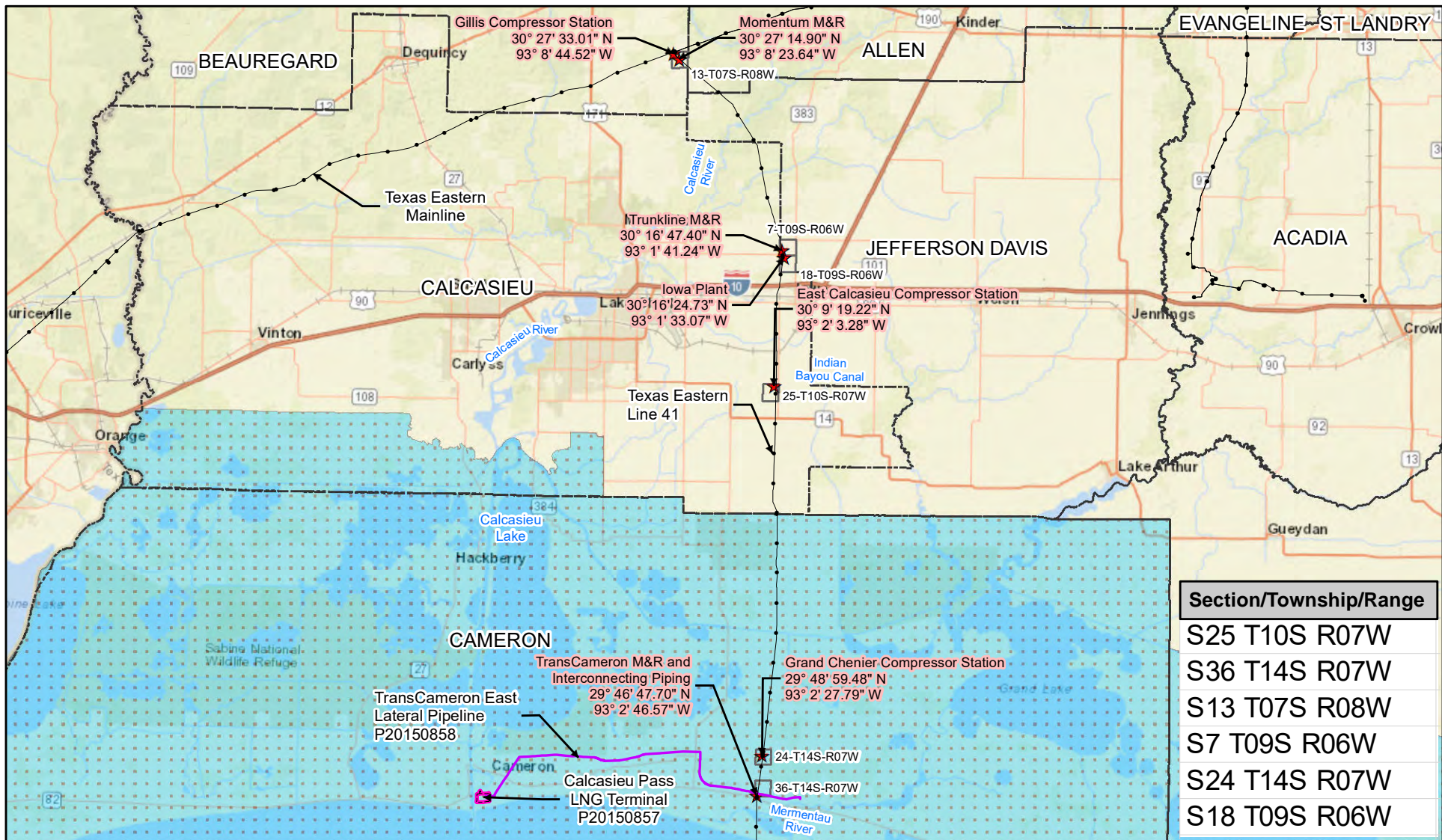
Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for public hearings shall state, with particularity, the reasons for holding a public hearing.

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

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

Darrell S. Barbara
Chief, Western Evaluation Section
Regulatory Branch

Enclosure



Section/Township/Range
S25 T10S R07W
S36 T14S R07W
S13 T07S R08W
S7 T09S R06W
S24 T14S R07W
S18 T09S R06W



Legend

- ★ Project Location
- ▭ Parish
- ▭ Louisiana Coastal Zone
- ▭ Section

N

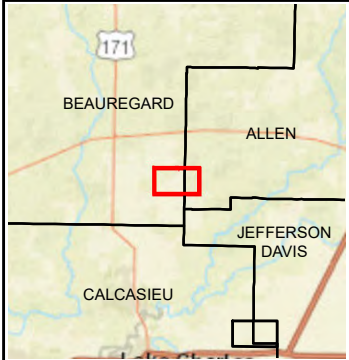
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Miles

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1 inch = 9 miles

Enbridge
Cameron Extension Project

Figure 1
Project Vicinity Map
Cameron Extension Project Area

Beauregard, Jefferson Davis, Calcasieu
and Cameron Parish, Louisiana



Legend

- Permanent Workspace
- Permanent Access
- Temporary Workspace
- Additional Temporary Workspace
- USGS Quad
- Section

N

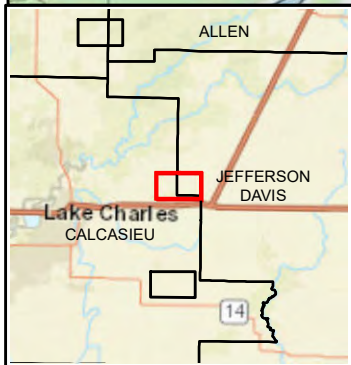
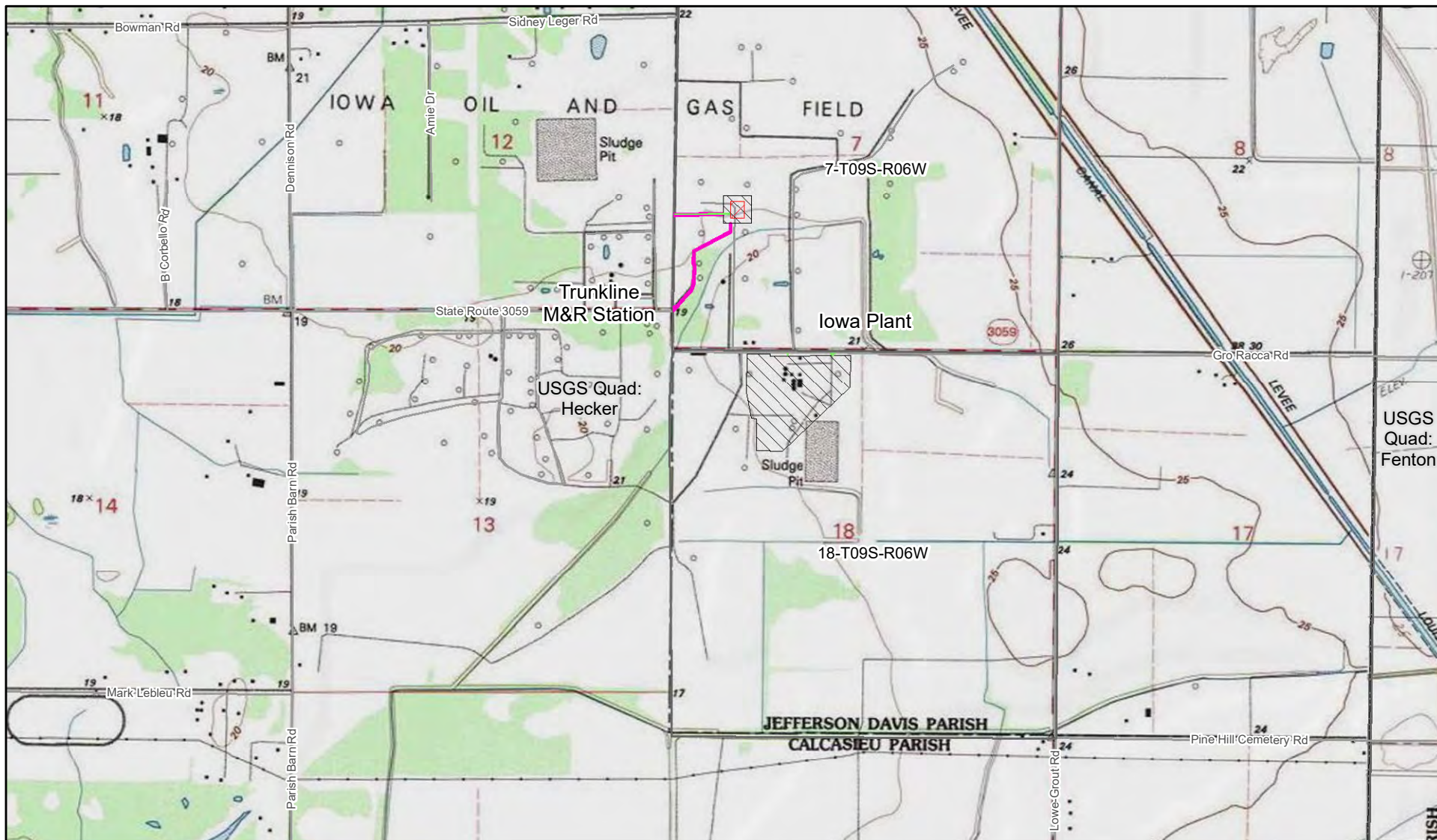
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Feet

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1 inch = 2,000 feet

**Enbridge
Cameron Extension Project**

Figure 2
Topographic Maps
Cameron Extension Project

Beauregard, Jefferson Davis, Calcasieu
and Cameron Parish, Louisiana



Legend

- Permanent Workspace
- Permanent Access
- Temporary Workspace
- Temporary Access
- USGS Quad
- Section

N

0 1,000 2,000
Feet

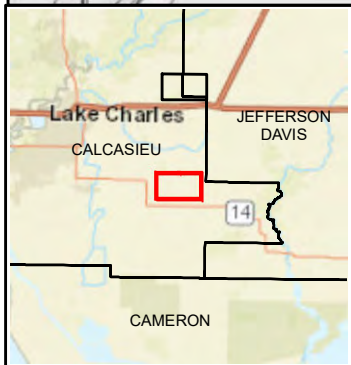
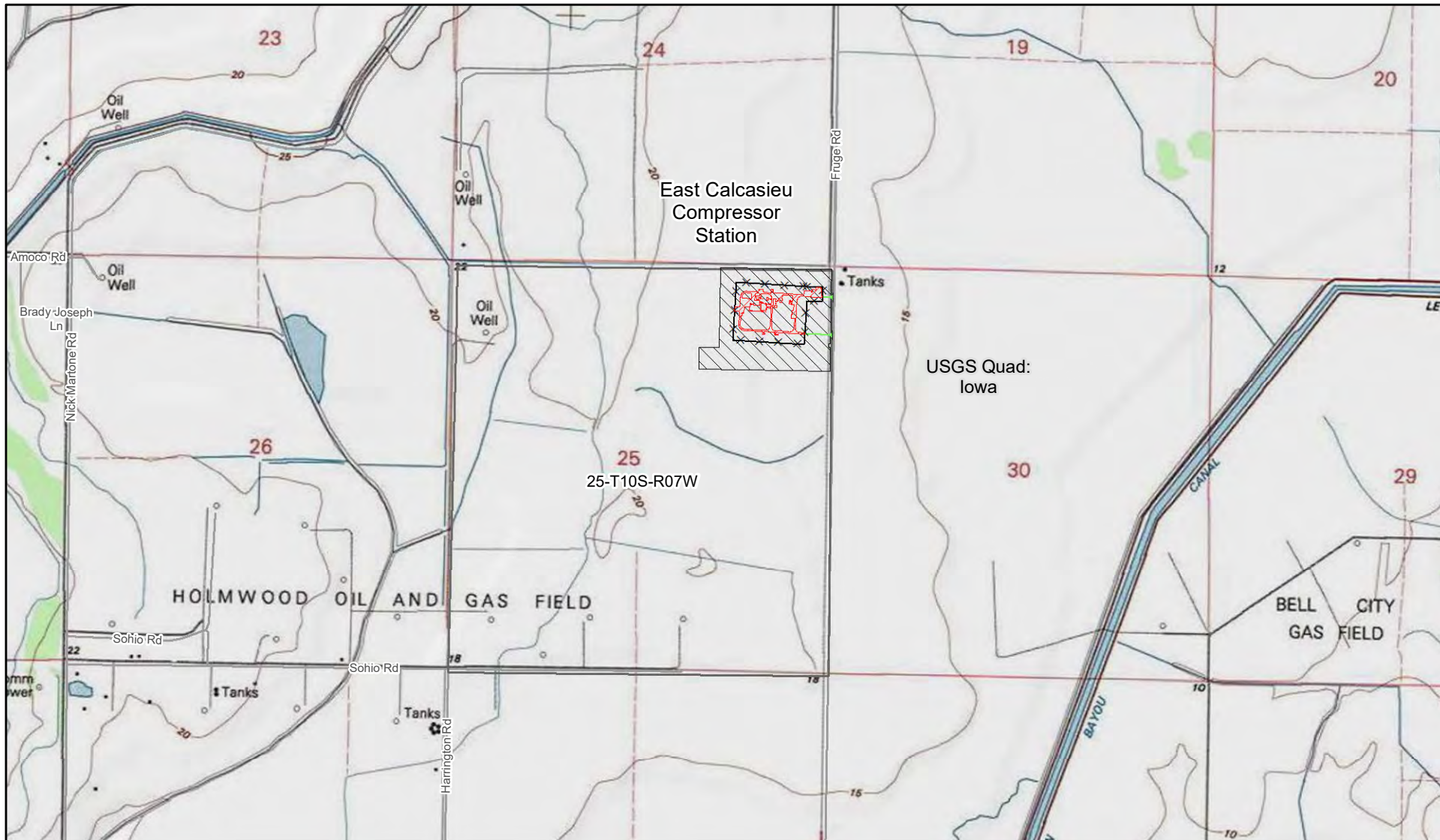
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Enbridge
Cameron Extension Project

Figure 2
Topographic Maps
Cameron Extension Project

Beauregard, Jefferson Davis, Calcasieu
and Cameron Parish, Louisiana

Page 2 of 5



Legend

- Permanent Workspace
- Fenced Area
- Permanent Access
- Temporary Workspace
- USGS Quad
- Section

N

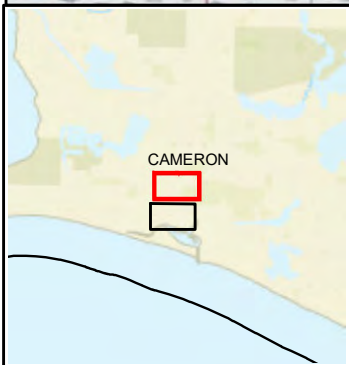
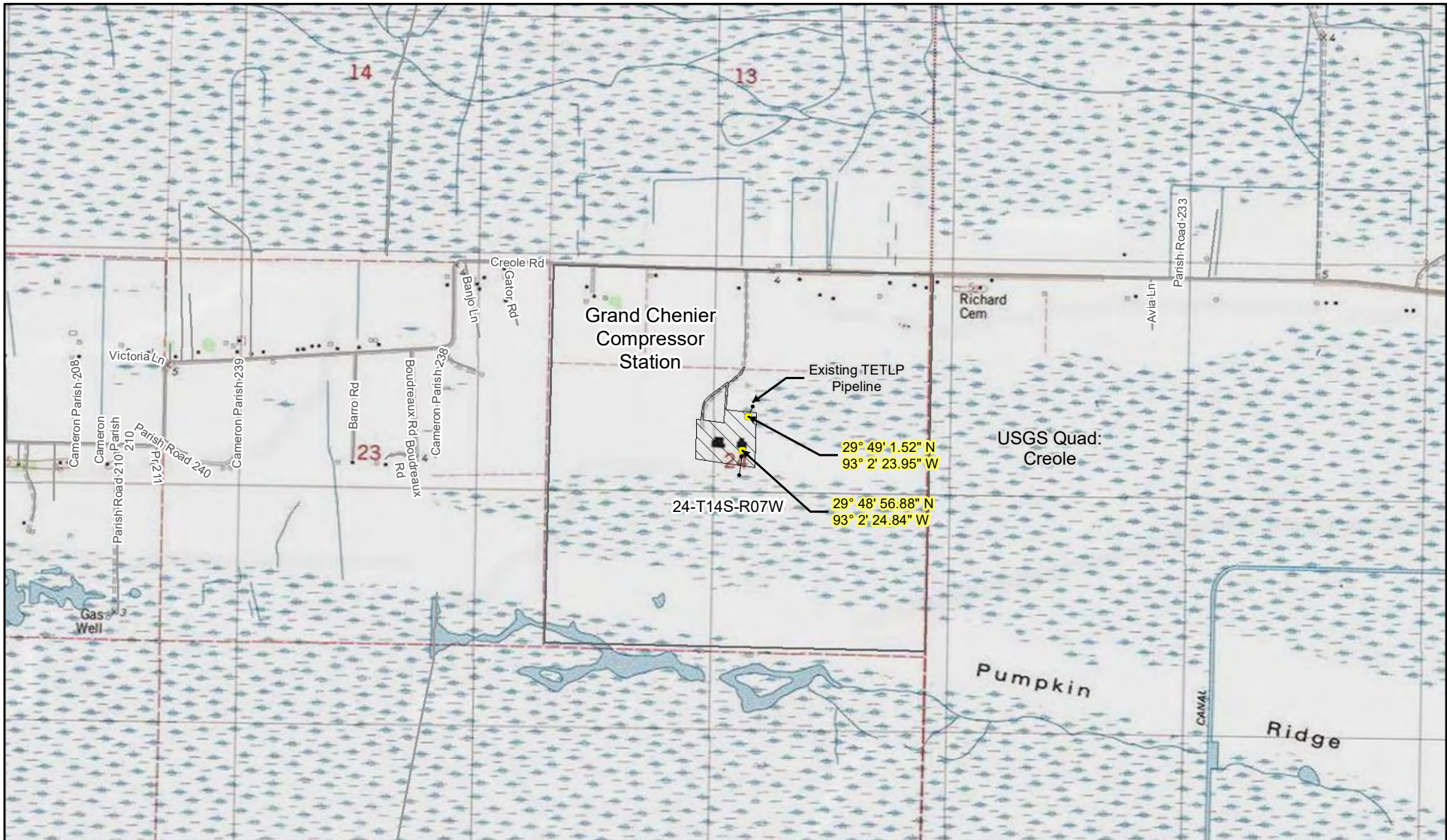
0 1,000 2,000
Feet

Scale: 1:24,000
1 inch = 2,000 feet

**Enbridge
Cameron Extension Project**

Figure 2
Topographic Maps
Cameron Extension Project

Beauregard, Jefferson Davis, Calcasieu
and Cameron Parish, Louisiana



Legend

- Temporary Workspace
- Existing Pipeline
- USGS Quad
- Tie In Location
- Section

N

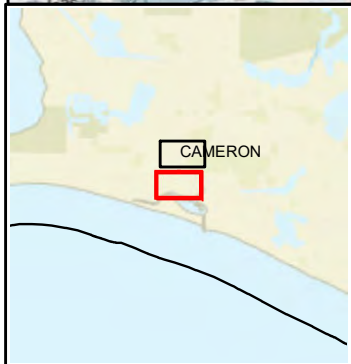
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Scale: 1:24,000
1 inch = 2,000 feet

Enbridge
Cameron Extension Project

Figure 2
Topographic Maps
Cameron Extension Project

Beauregard, Jefferson Davis, Calcasieu
and Cameron Parish, Louisiana



Legend

Permanent Workspace	Existing Pipeline
Permanent Access	Tie In Location
Permanent Easement	
Temporary Workspace	
Additional Temporary Workspace	
Temporary Access	
TransCameron Workspace	
USGS Quad	
Section	

N

0 1,000 2,000
Feet

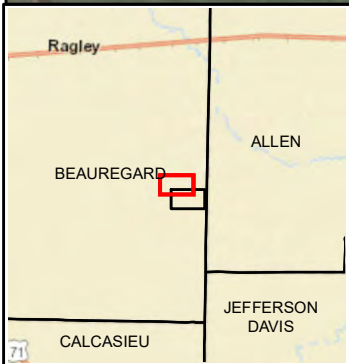
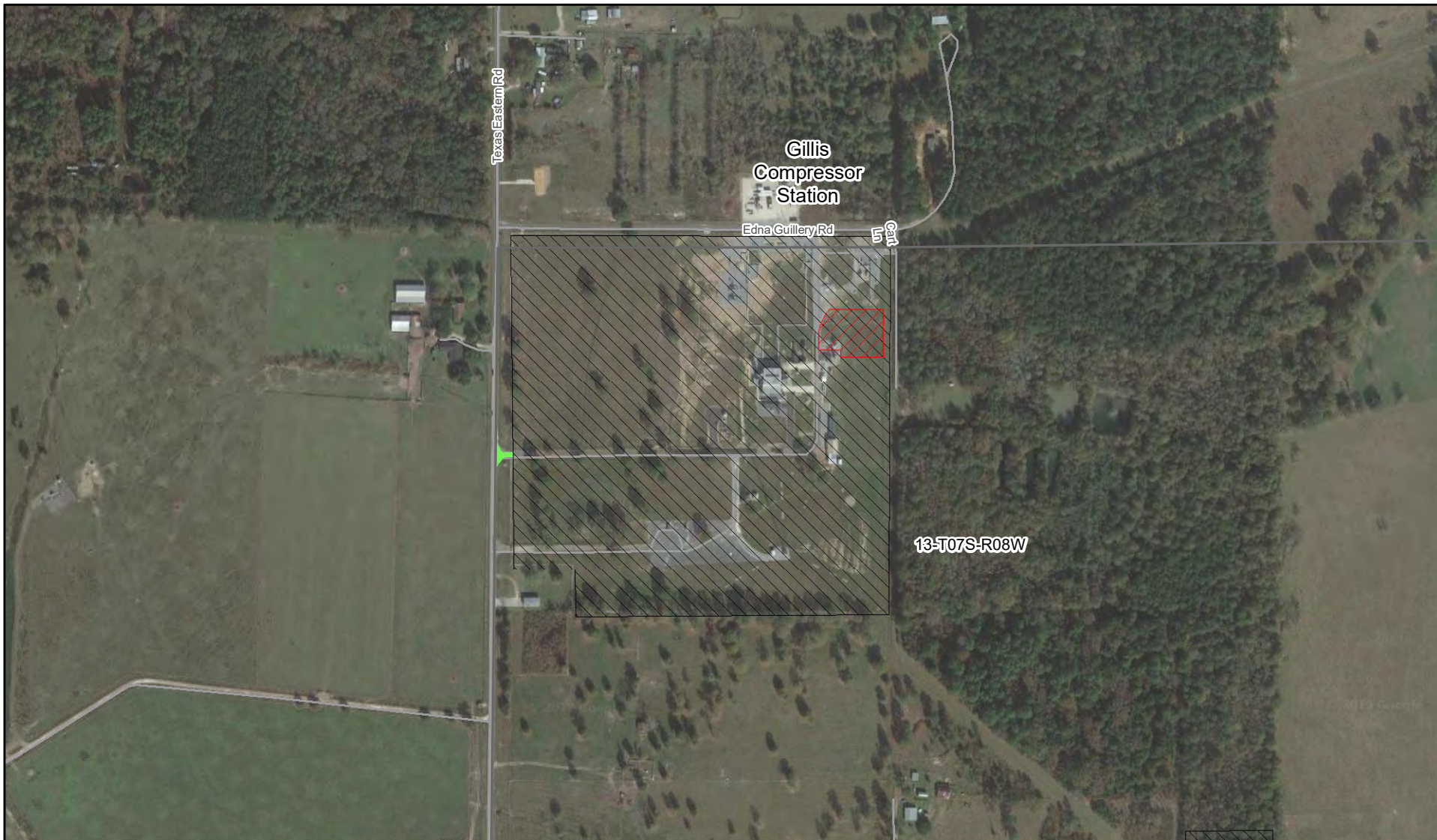
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**Enbridge
Cameron Extension Project**

Figure 2
Topographic Maps
Cameron Extension Project

Beauregard, Jefferson Davis, Calcasieu
and Cameron Parish, Louisiana

Page 5 of 5



Legend

- Permanent Workspace
- Permanent Access
- Temporary Workspace
- Section

N

0 250 500
Feet

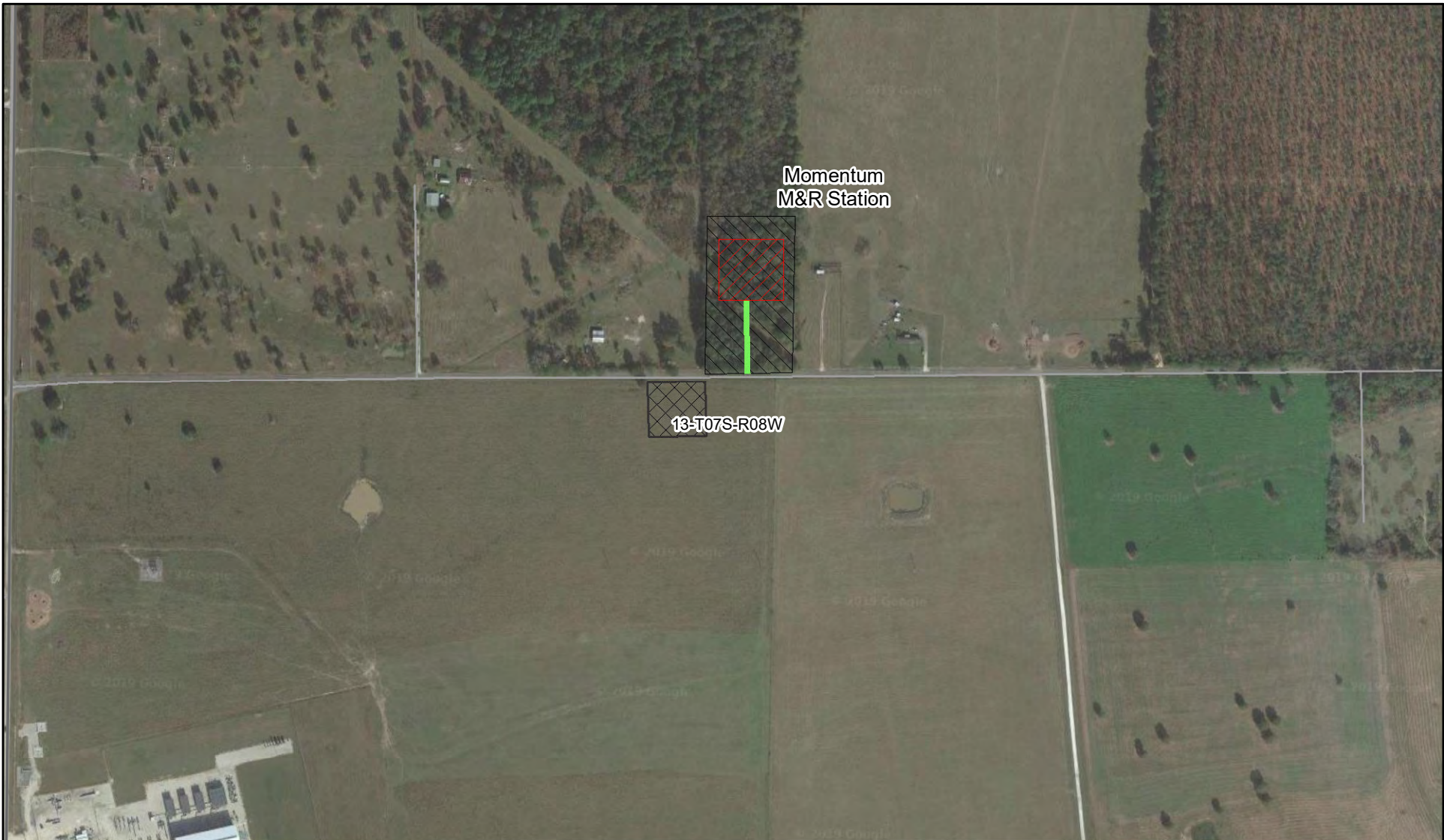
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Page 1 of 7

Enbridge
Cameron Extension Project

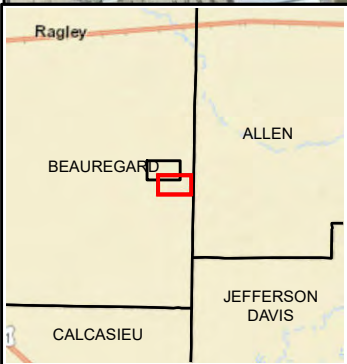
Figure 3
Aerial Maps
Cameron Extension Project

Beauregard, Jefferson Davis, Calcasieu
and Cameron Parish, Louisiana








Momentum
M&R Station


13-T07S-R08W



Legend


-  Permanent Workspace
-  Permanent Access
-  Temporary Workspace
-  Additional Temporary Workspace
-  Section

N



0 250 500
Feet

Scale: 1:6,000
1 inch = 500 feet

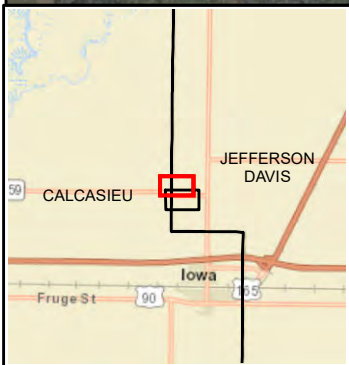
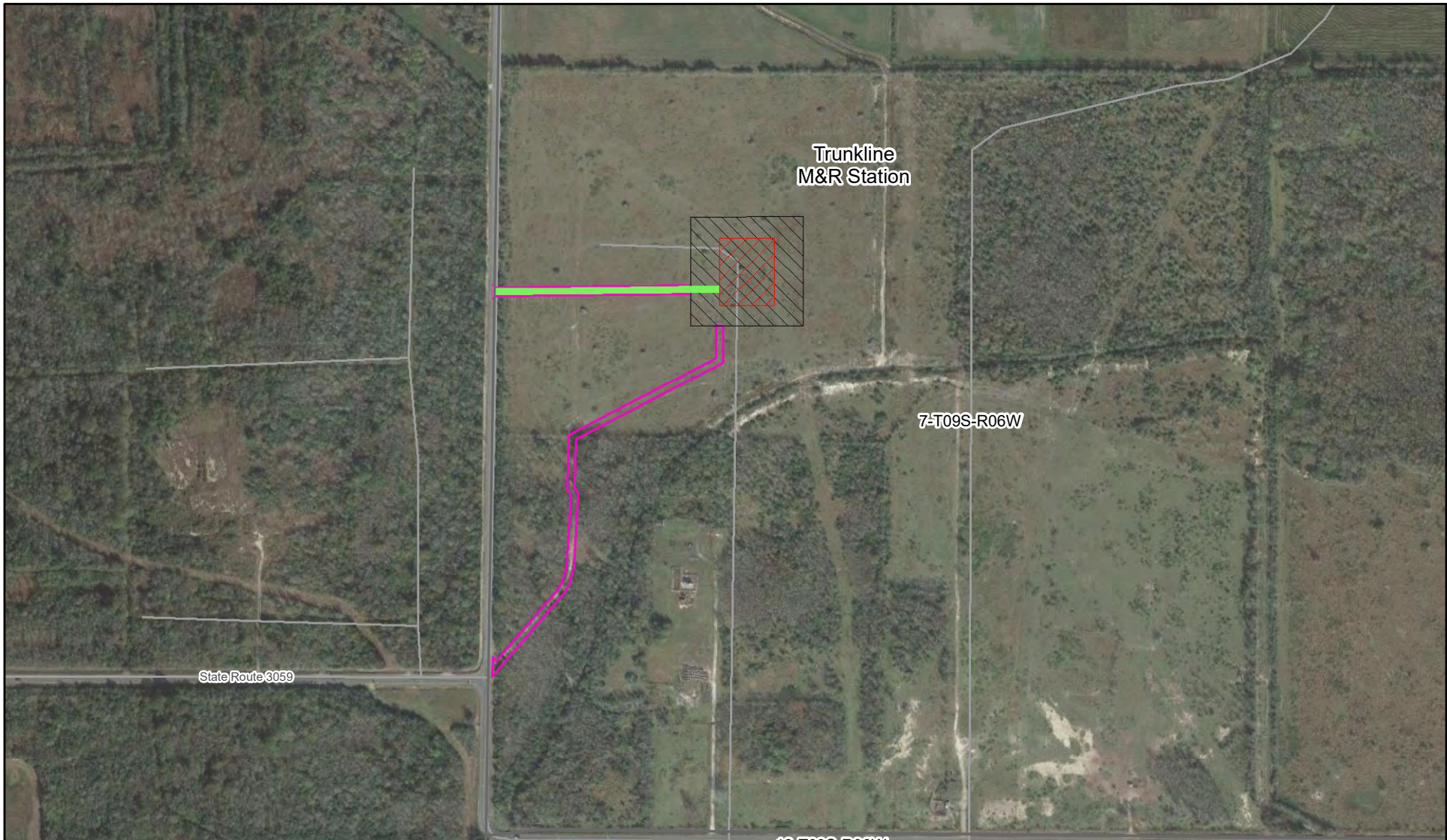


**Enbridge
Cameron Extension Project**





Figure 3
Aerial Maps
Cameron Extension Project

Beauregard, Jefferson Davis, Calcasieu
and Cameron Parish, Louisiana


Page 2 of 7



Legend


-  Permanent Workspace
-  Permanent Access
-  Temporary Workspace
-  Temporary Access
-  Section

N



0 250 500
Feet

Scale: 1:6,000
1 inch = 500 feet

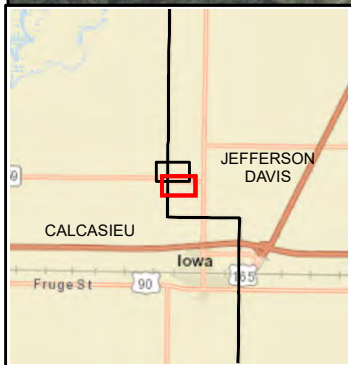


**Enbridge
Cameron Extension Project**

Figure 3
Aerial Maps
Cameron Extension Project

Beauregard, Jefferson Davis, Calcasieu
and Cameron Parish, Louisiana

Page 3 of 7



Legend

- Permanent Access
- Temporary Workspace
- Temporary Access
- Section

N

0 250 500
Feet

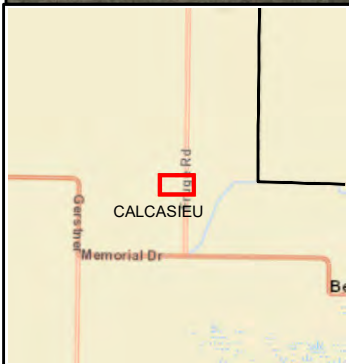
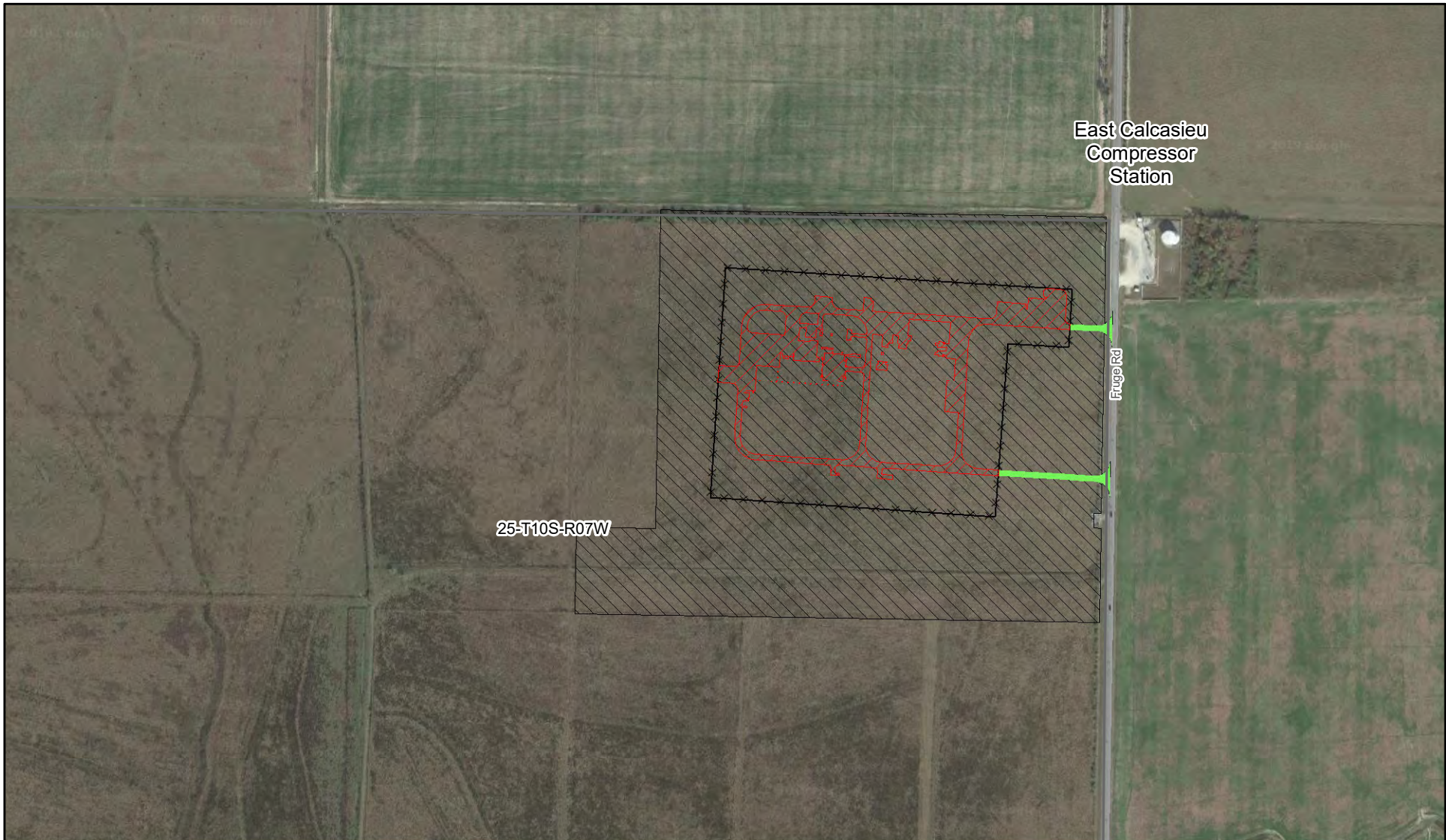
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Enbridge
Cameron Extension Project

Figure 3
Aerial Maps
Cameron Extension Project

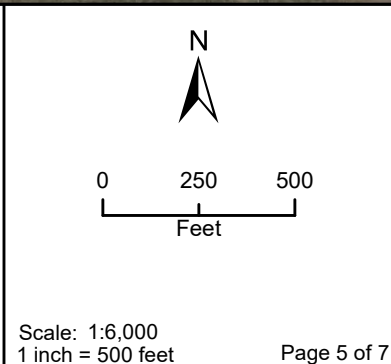
Beauregard, Jefferson Davis, Calcasieu
and Cameron Parish, Louisiana

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Legend

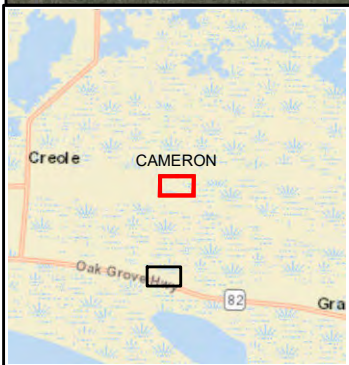
- Permanent Workspace
- Fenced Area
- Permanent Access
- Temporary Workspace
- Section



**Enbridge
Cameron Extension Project**

Figure 3
Aerial Maps
Cameron Extension Project

Beauregard, Jefferson Davis, Calcasieu
and Cameron Parish, Louisiana



Legend

- Temporary Workspace
- Existing Pipeline
- Section
- Tie In Location

N

0 250 500
Feet

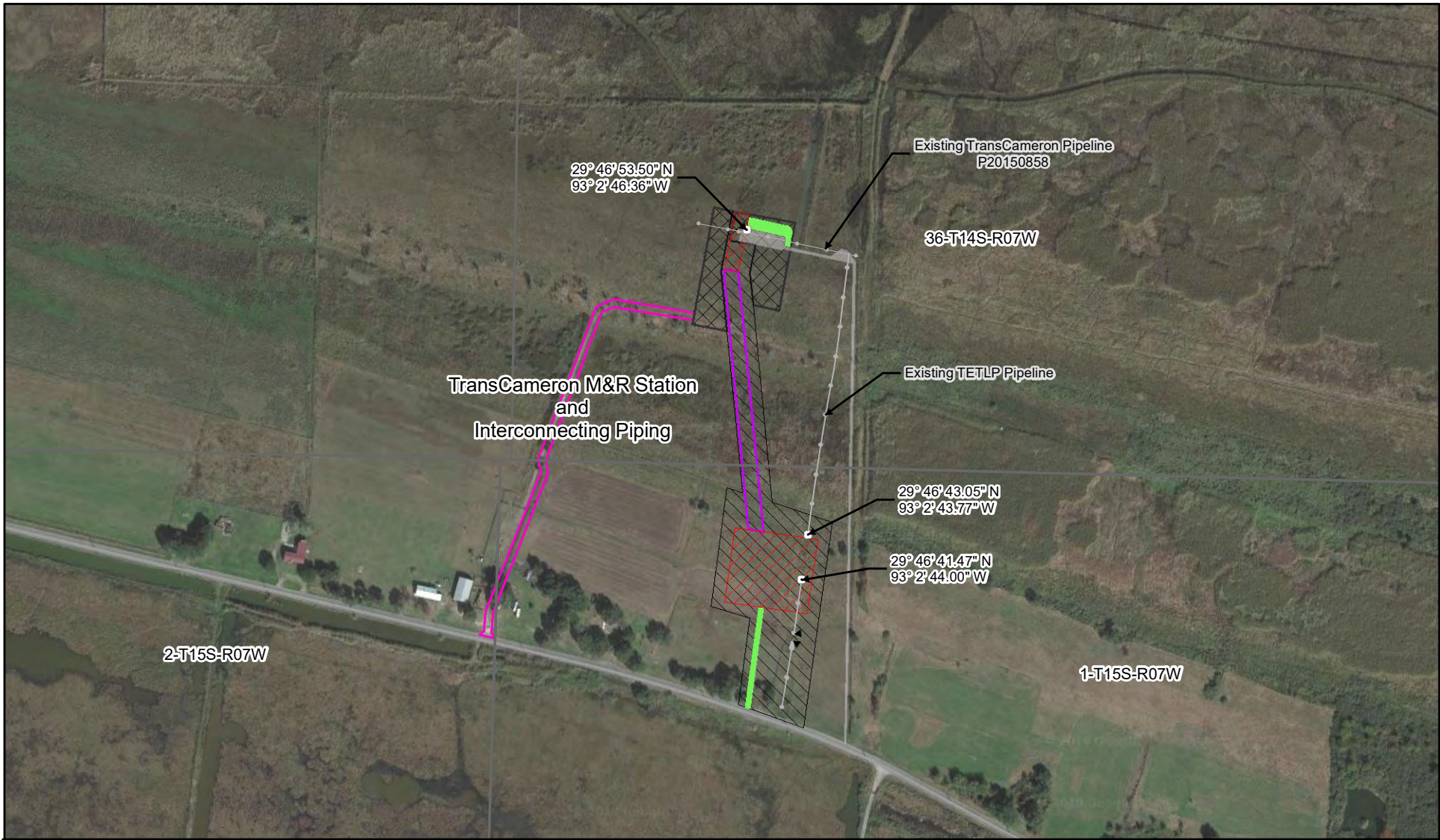
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1 inch = 500 feet

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Enbridge
Cameron Extension Project

Figure 3
Aerial Maps
Cameron Extension Project

Beauregard, Jefferson Davis, Calcasieu
and Cameron Parish, Louisiana



Legend

- Permanent Workspace
- Permanent Access
- Permanent Easement
- Temporary Workspace
- Additional Temporary Workspace
- Temporary Access
- TransCameron Workspace
- Section
- Existing Pipeline
- Tie In Location

N

0 250 500
Feet

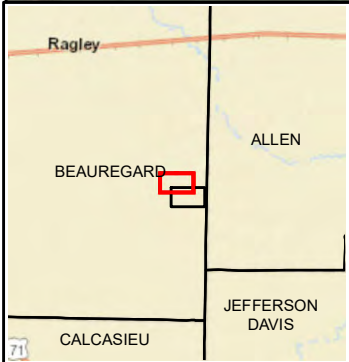
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1 inch = 500 feet

Enbridge
Cameron Extension Project

Figure 3
Aerial Maps
Cameron Extension Project

Beauregard, Jefferson Davis, Calcasieu
and Cameron Parish, Louisiana


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Legend

-  Permanent Workspace
-  Permanent Access
-  Temporary Workspace
-  Permanent Wetland Impacts

N



0 250 500
Feet

Scale: 1:6,000
1 inch = 500 feet

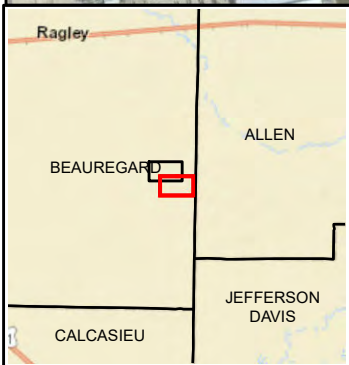
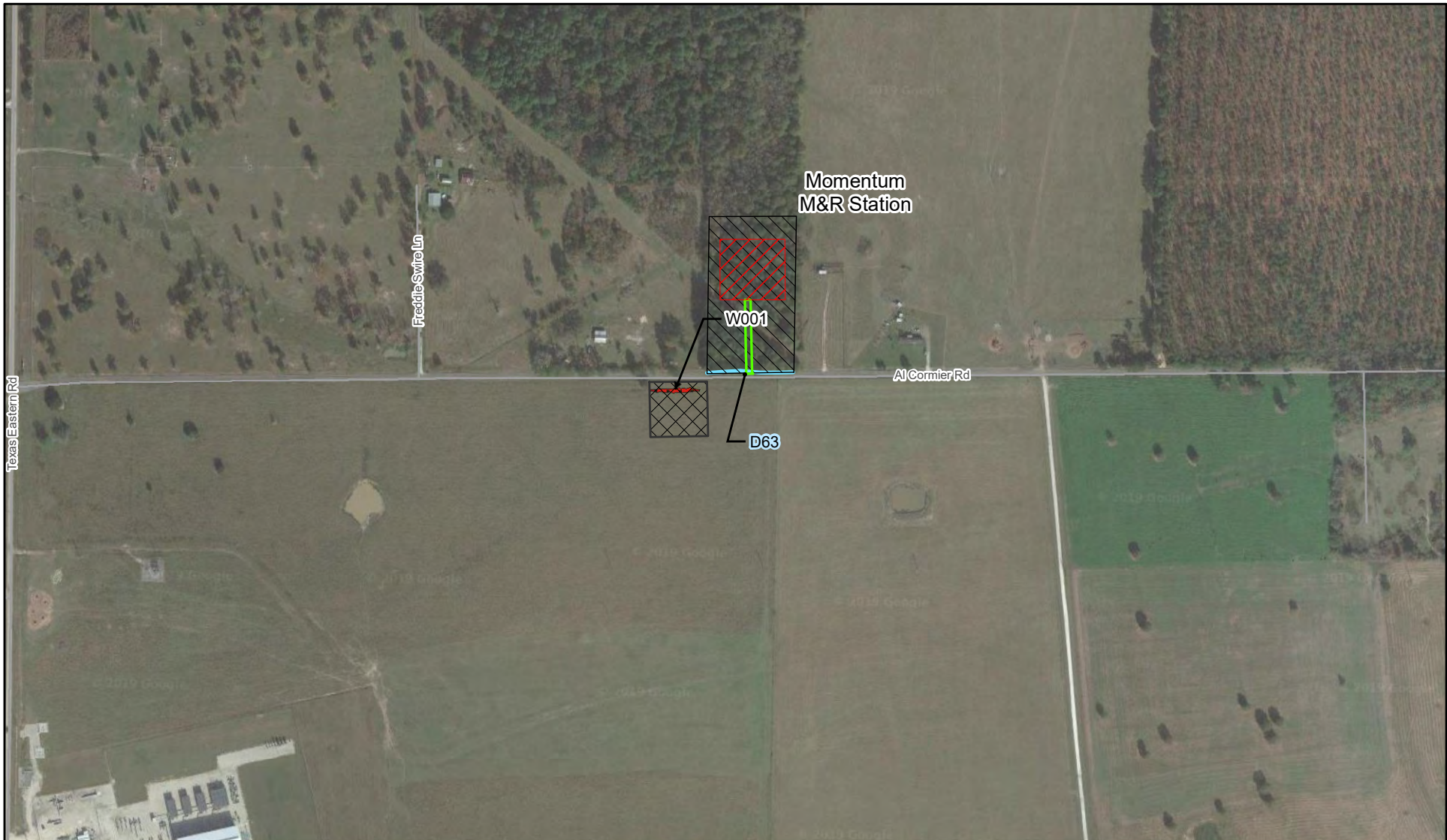
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



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Cameron Extension Project

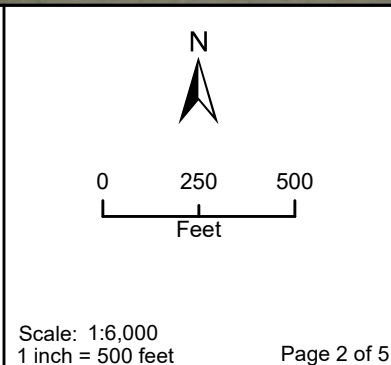
Figure 4
Wetland and Waterbottom Impacts Maps
Outside the Louisiana Coastal Zone
Cameron Extension Project

Beauregard, Jefferson Davis, and
Calcasieu Parish, Louisiana



Legend

	Permanent Workspace
	Permanent Access
	Temporary Workspace
	Additional Temporary Workspace
	Temporary Wetland Impacts
	Stream/Ditch



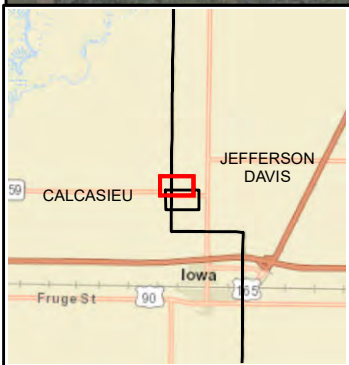
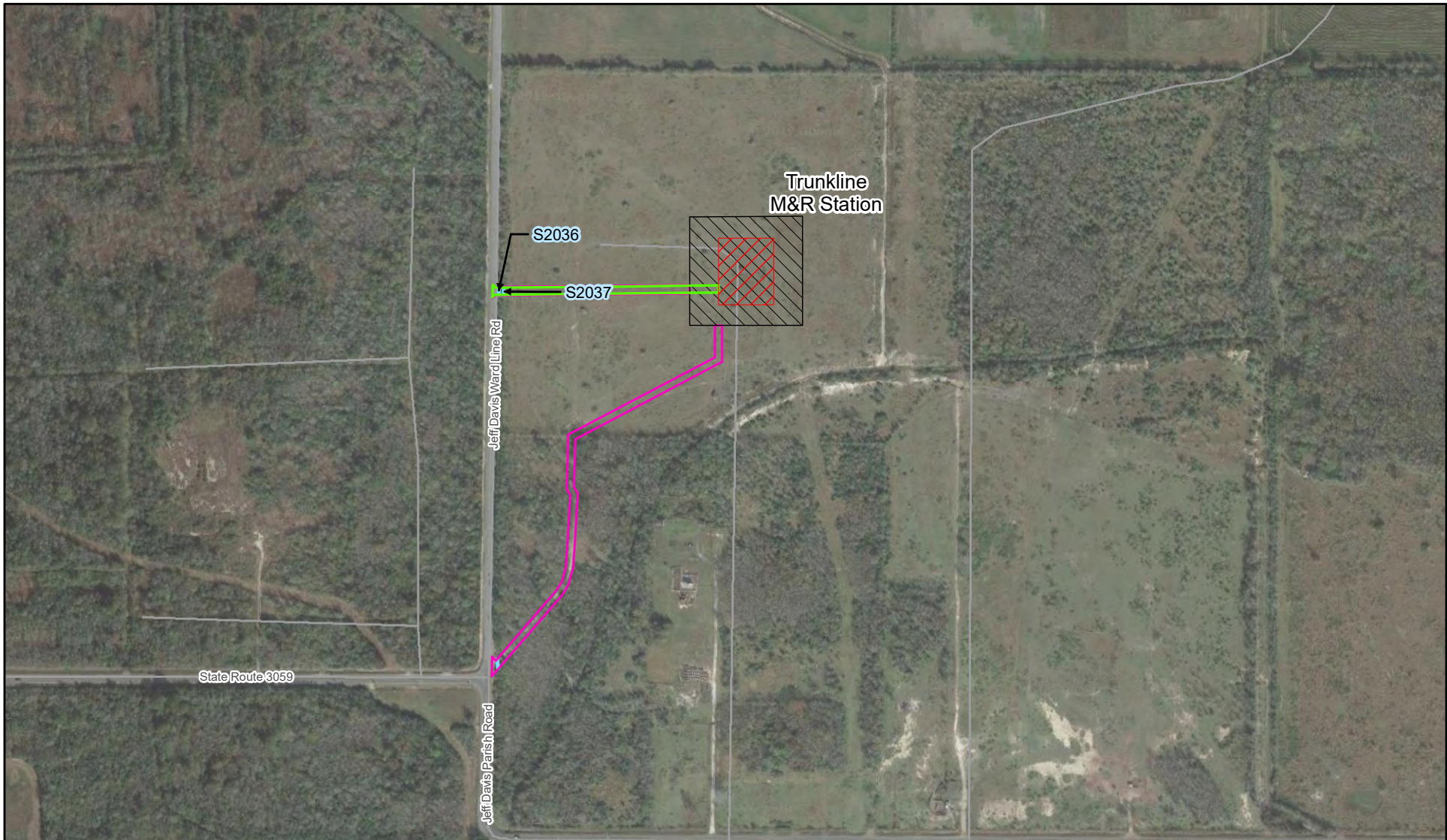
ENBRIDGE

**Enbridge
Cameron Extension Project**

Figure 4
Wetland and Waterbottom Impacts Maps
Outside the Louisiana Coastal Zone
Cameron Extension Project

Beauregard, Jefferson Davis, and
Calcasieu Parish, Louisiana

Page 2 of 5



Legend

- Permanent Workspace
- Permanent Access
- Temporary Workspace
- Temporary Access
- Stream/Ditch

N

0 250 500
Feet

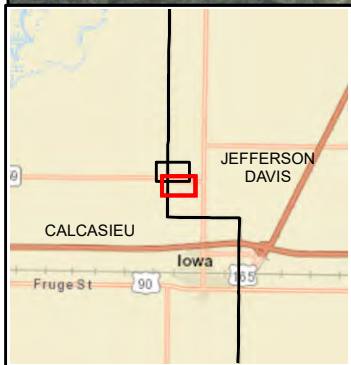
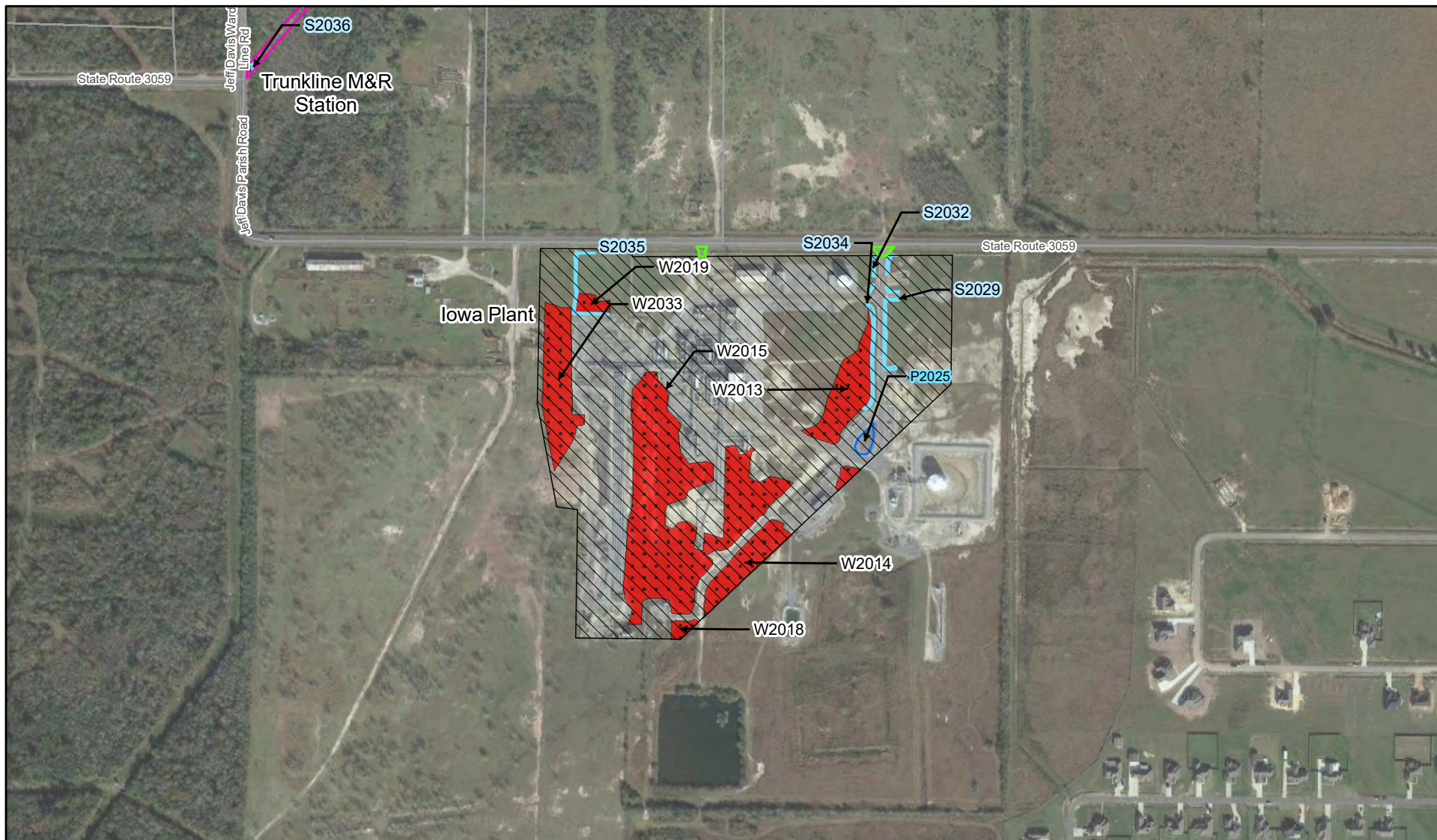
Scale: 1:6,000
1 inch = 500 feet

**Enbridge
Cameron Extension Project**

Figure 4
Wetland and Waterbottom Impacts Maps
Outside the Louisiana Coastal Zone
Cameron Extension Project

Beauregard, Jefferson Davis, and
Calcasieu Parish, Louisiana

Page 3 of 5



Legend

- Permanent Access
- Temporary Workspace
- Temporary Access
- Temporary Wetland Impacts
- Stream/Ditch
- Pond/Open Water

N
↑

0 250 500
Feet

Scale: 1:6,000
1 inch = 500 feet

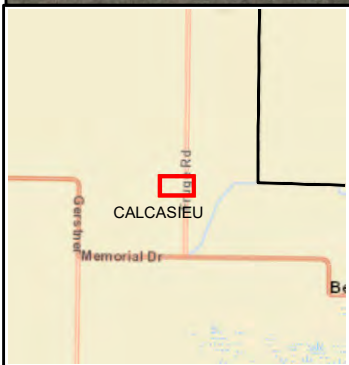
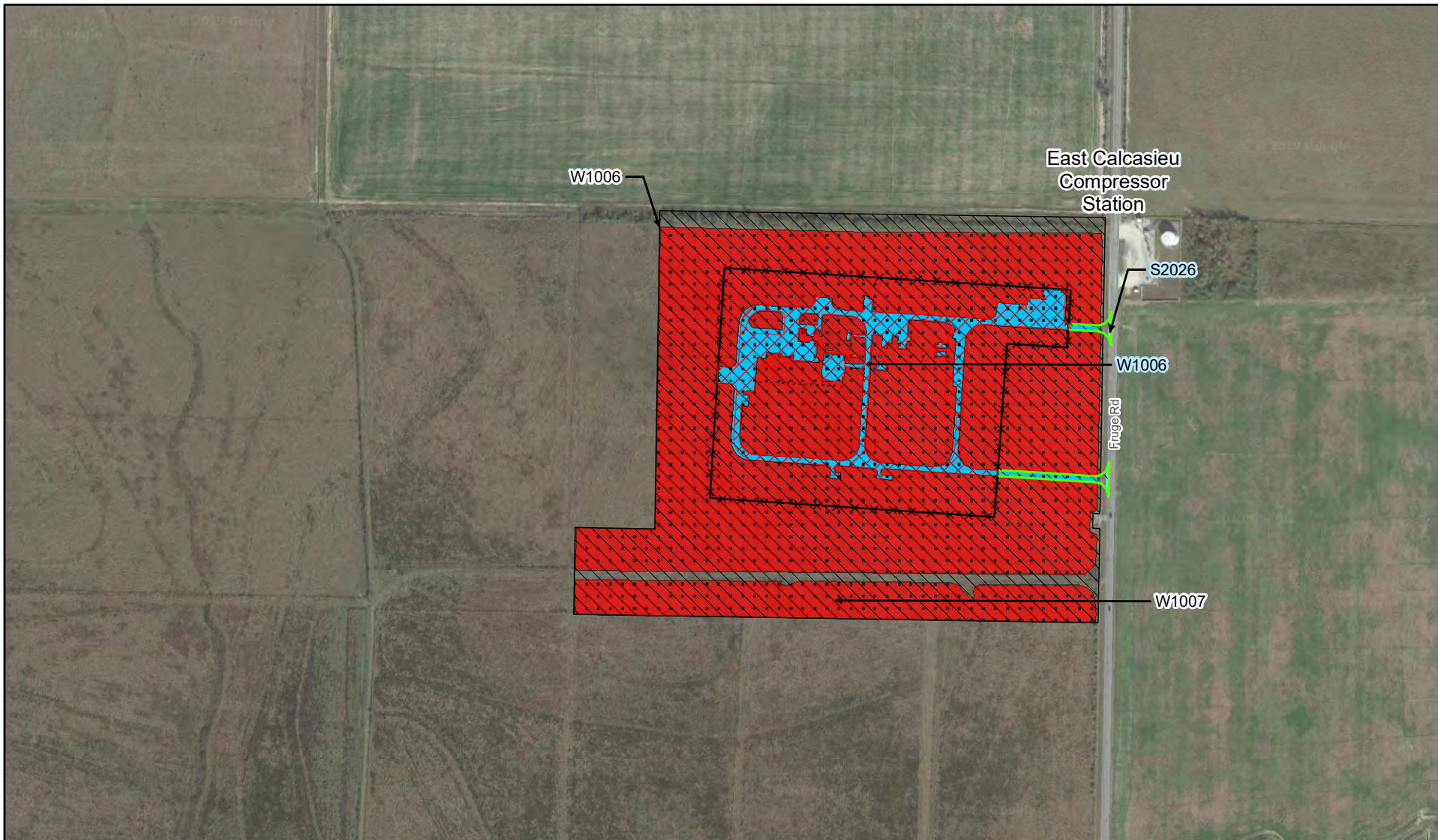
ENBRIDGE

**Enbridge
Cameron Extension Project**







Figure 4
Wetland and Waterbottom Impacts Maps
Outside the Louisiana Coastal Zone
Cameron Extension Project

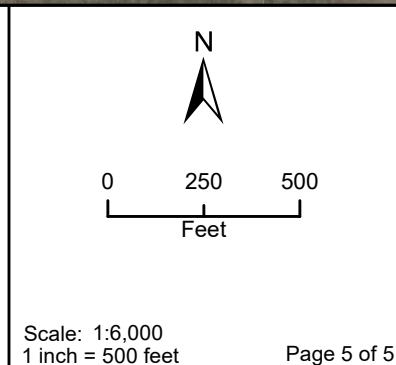
Beauregard, Jefferson Davis, and
Calcasieu Parish, Louisiana

Page 4 of 5



Legend

	Permanent Workspace
	Fenced Area
	Permanent Access
	Temporary Workspace
	Permanent Wetland Impacts
	Temporary Wetland Impacts
	Stream/Ditch



ENBRIDGE

**Enbridge
Cameron Extension Project**

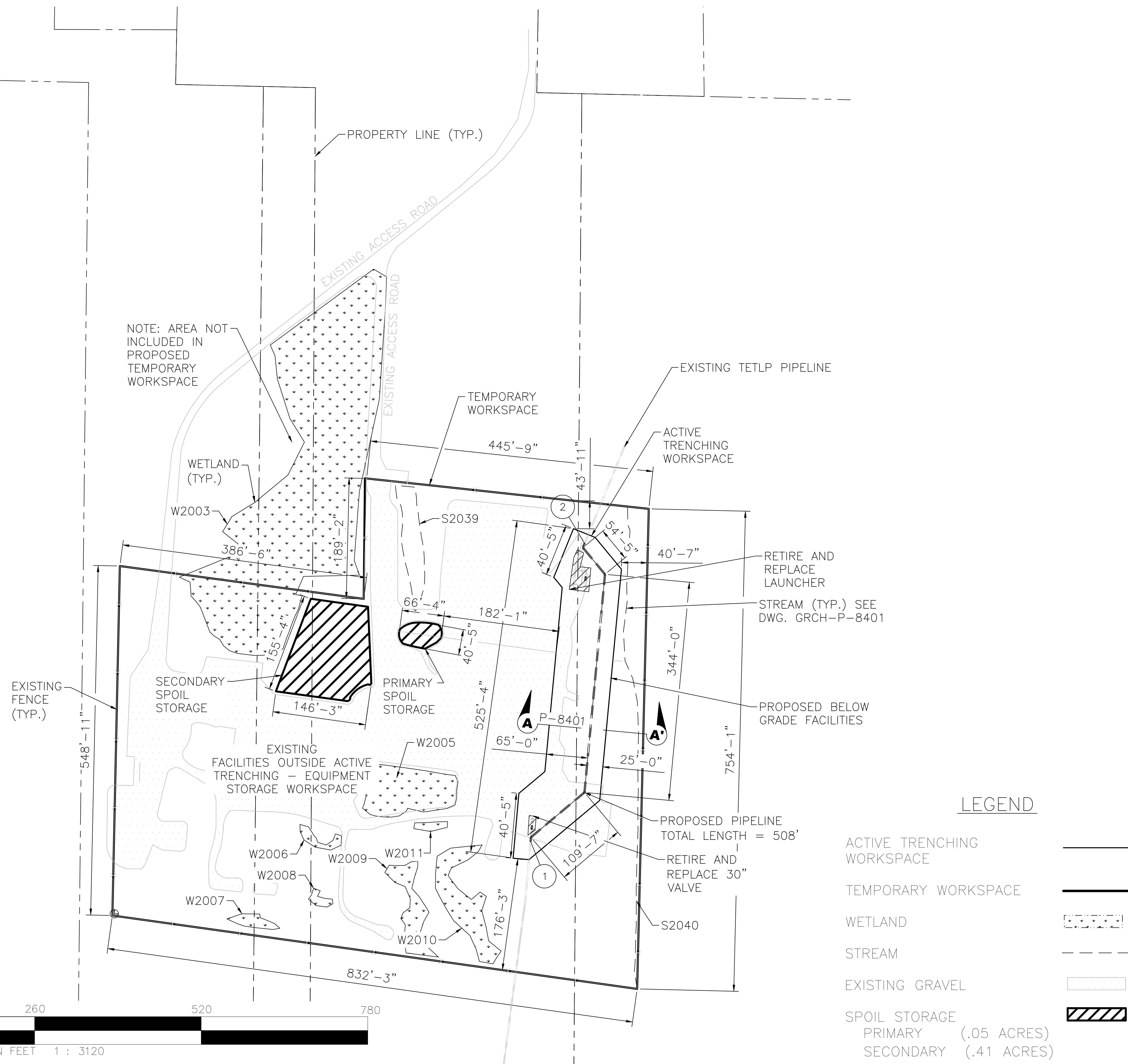
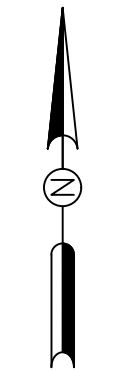
Figure 4
Wetland and Waterbottom Impacts Maps
Outside the Louisiana Coastal Zone
Cameron Extension Project

Beauregard, Jefferson Davis, and
Calcasieu Parish, Louisiana

Page 5 of 5

Figure 5
Wetland and Waterbottom Impacts Maps Within the
Louisiana Coastal Zone
Cameron Extension Project

Model: TDRGBNIK
 User: TDRGBNIK
 Drawing: I:\Projects\ENB\1954601.00\6 - Working Drawings\Mechanical Drawings\GRCH-P-8400.dwg
 Time: 6/13/2017 2:16:11 PM



PROPOSED TIE-IN POINT COORDINATES				
POINT	X	Y	LATITUDE	LONGITUDE
1	2739567.50'	482538.18'	29°48'56.88"	-93°2'24.84"
2	2739652.29'	483006.16'	29°49'1.52"	-93°2'23.95"

AFFECTED AREAS	ACRES
TEMPORARY WORKSPACE- ACTIVE WORKSPACE	1.034
TEMPORARY WORKSPACE- EQUIPMENT STORAGE	11.43

CALCULATIONS (APPROXIMATE)
541 CUBIC YARDS CUT AND RE-FILL DUE TO TRENCHING

NOTES:

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2. THIS DRAWING MAY NOT REPRESENT ALL HAZARDS IN PROJECT AREA.
3. TEMPORARY EQUIPMENT MATS MAY BE USED WITHIN THE ENTIRE TEMPORARY PROJECT WORKSPACES, AND THE SPECIFIC LOCATIONS WILL BE DETERMINED BASED ON SOIL SATURATION AND CONDITIONS AT THE TIME OF CONSTRUCTION.

COASTAL NOTES:

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2. 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.
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4. ALL STRUCTURES MUST BE MARKED AND LIGHTED IN ACCORDANCE WITH U.S. COAST GUARD REGULATIONS.
5. ALL STRUCTURES BUILT UNDER THE AUTHORIZATION AND CONDITIONS OF THIS PERMIT SHALL BE REMOVED FROM THE SITE WITHIN 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 PERMIT, SHOULD ONE BE REQUIRED, FOR SUCH REMOVAL ACTIVITIES.

LEGEND

- ACTIVE TRENCHING WORKSPACE
- TEMPORARY WORKSPACE
- WETLAND
- STREAM
- EXISTING GRAVEL
- SPOIL STORAGE
PRIMARY (.05 ACRES)
- SECONDARY (.41 ACRES)



REV	DSN	CK	DESCRIPTION
△	TRD	JPB	REVISED FOR OCM COMMENTS (02-27-20)
△	JPB	DP	REVISED FOR OCM COMMENTS (01-29-20)
△	WB	TRD	REVISED FOR ENVIRONMENTAL PERMITTING REVIEW (11-06-19)
△	JK	JPB	REVISED FOR ENVIRONMENTAL PERMITTING REVIEW (10-09-19)
△	JK	JPB	ISSUED FOR ENVIRONMENTAL PERMITTING REVIEW (09-19-19)

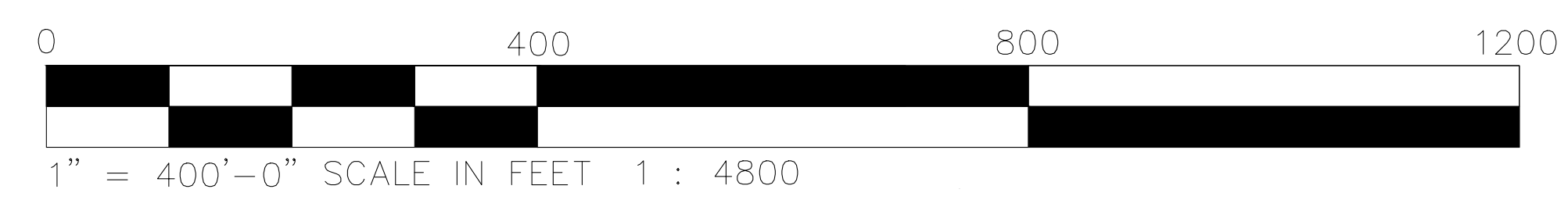
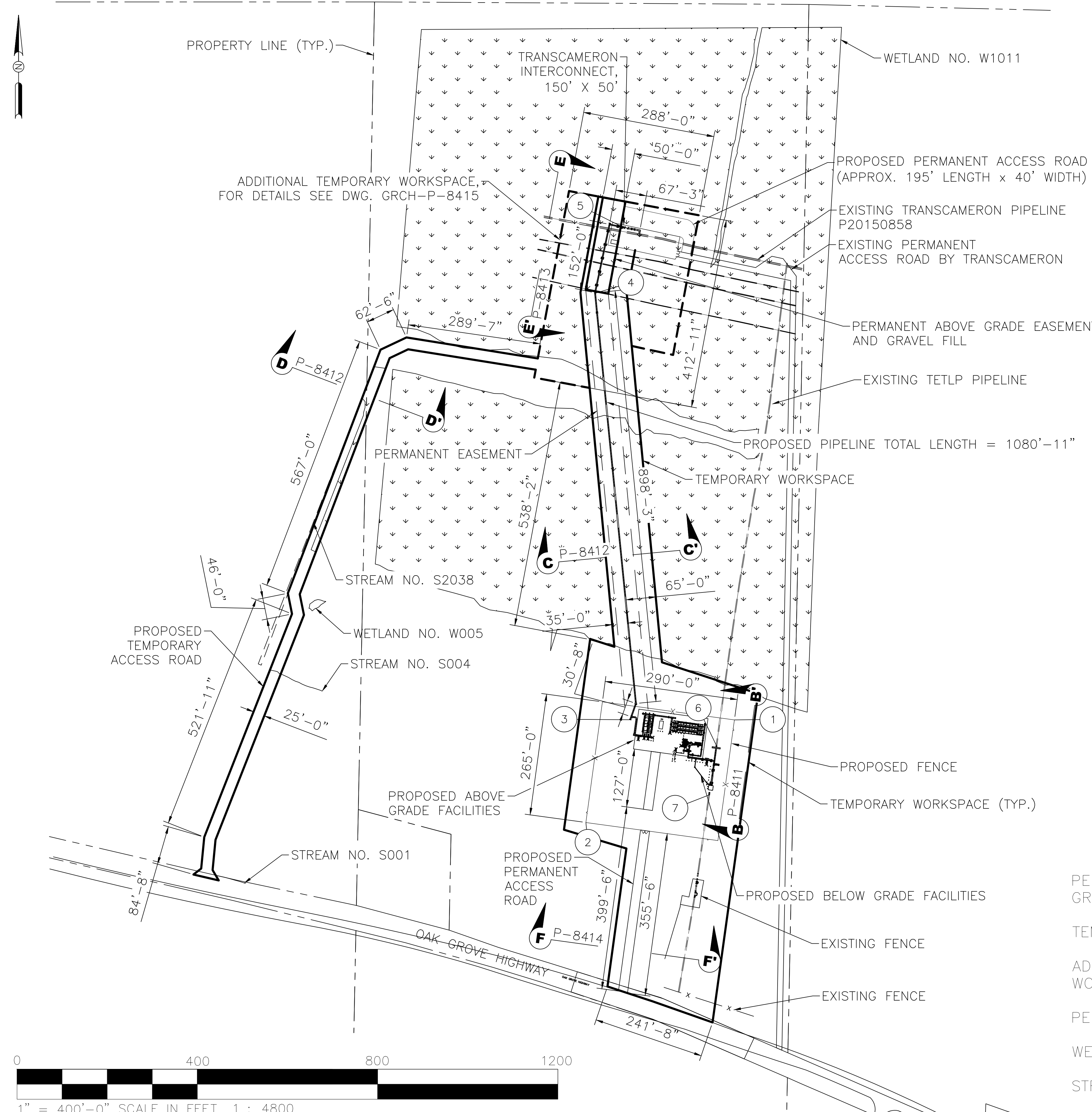
ENGINEERING APPROVALS				
DRAWN BY	BID	CONSTRUCTION		
TITLE	SIGNATURE	DATE	SIGNATURE	DATE

CAMERON EXTENSION PROJECT EXISTING 30" LINE 41 GRAND CHENIER STATION				
USACE/OCM JOINT PERMIT EXHIBIT				
LOC.	CAMERON PARISH, LOUISIANA			
YEAR:	2021	W.B.S. CE.000170.002.10.01	SCALE:	1" = 260'-0"
DWG.	GRCH-P-8400	REV.	E	



Texas Eastern Transmission, L.P.
5800 Weddinger Ct., Houston, TX 77056-5101 / 627-5400

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 User: MWILLIAMS
 Date: 6/13/2017 2:16:11 PM



PROPOSED FACILITIES POINT COORDINATES				
POINT	X	Y	LATITUDE	LONGITUDE
1	2737727.96'	469033.15'	29°46'42.93"	-93°2'43.43"
2	2737404.69'	468809.94'	29°46'40.67"	-93°2'47.06"
3	2737501.23'	469033.47'	29°46'42.90"	-93°2'46.00"
4	2737424.69'	469962.69'	29°46'52.09"	-93°2'47.03"
5*	2737485.93'	470105.09'	29°46'53.50"	-93°2'46.36"
6*	2737688.95'	468976.97'	29°46'42.37"	-93°2'43.86"
7*	2737672.87'	468869.86'	29°46'41.31"	-93°2'44.03"

* THESE POINTS ARE TIE-IN LOCATIONS.

AFFECTED AREAS	ACRES
TEMPORARY WORKSPACE-WETLAND	3.563
TEMPORARY WORKSPACE-NON WETLAND	6.356
PERMANENT FILL-WETLAND	0.39
PERMANENT EASEMENT, RESTORED FOLLOWING CONSTRUCTION-WETLAND	0.79
PERMANENT EASEMENT-NON WETLAND	2.144

CALCULATIONS (APPROXIMATE)	
3,735 CUBIC YARDS CUT AND RE-FILL DUE TO TRENCHING	
10,195 CUBIC YARDS OF DIRT FILL	
1,853 CUBIC YARDS OF GRAVEL FILL	
1,835 CUBIC YARDS DISPLACED DUE TO DRIVEN PILES & PIPE SUPPORTS	

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LEGEND

PERMANENT ABOVE GRADE EASEMENT	
TEMPORARY WORKSPACE	
ADDITIONAL TEMPORARY WORKSPACE	
PERMANENT EASEMENT	
WETLANDS	
STREAM	

DWG. NO.	REFERENCE DWG.	REV	DSN	CK	DESCRIPTION
GRCH-P-8415	TRANSCAMERON METER AND REGULATOR STATION USACE/OCM JOINT PERMIT EXHIBIT	TRD	MW		REVISED INTERCONNECT & ACCESS ROADS (04-22-2020)
GRCH-P-8414	TRANSCAMERON METER AND REGULATOR STATION USACE/OCM JOINT PERMIT EXHIBIT	TRD	MW		REVISED FOR OCM COMMENTS (04-07-20)
GRCH-P-8413	TRANSCAMERON METER AND REGULATOR STATION USACE/OCM JOINT PERMIT EXHIBIT	TRD	JPB		REVISED FOR OCM COMMENTS (02-27-20)
GRCH-P-8412	TRANSCAMERON METER AND REGULATOR STATION USACE/OCM JOINT PERMIT EXHIBIT	JPB	DP		REVISED FOR OCM COMMENTS (01-29-20)
GRCH-P-8411	TRANSCAMERON METER AND REGULATOR STATION USACE/OCM JOINT PERMIT EXHIBIT	WB	TRD		REVISED FOR ENVIRONMENTAL PERMITTING REVIEW (11-08-19)
GRCH-P-8410	TRANSCAMERON METER AND REGULATOR STATION USACE/OCM JOINT PERMIT EXHIBIT	WB	TRD		REVISED FOR ENVIRONMENTAL PERMITTING REVIEW (11-06-19)

ENEngineering
 28100 TORCH PARKWAY
 WARRENVILLE, IL 60055
 TEL: 630-353-4000
 FAX: 630-353-7777
 WWW.ENENGINEERING.COM

ENGINEERING APPROVALS				
DRAWN BY	BID	CONSTRUCTION		
TITLE	SIGNATURE	DATE	SIGNATURE	DATE

**CAMERON EXTENSION PROJECT
 EXISTING 30" LINE 41
 TRANSCAMERON METER AND REGULATOR
 STATION AND INTERCONNECTING PIPING
 USACE/OCM JOINT PERMIT EXHIBIT**

LOC: CAMERON PARISH, LOUISIANA

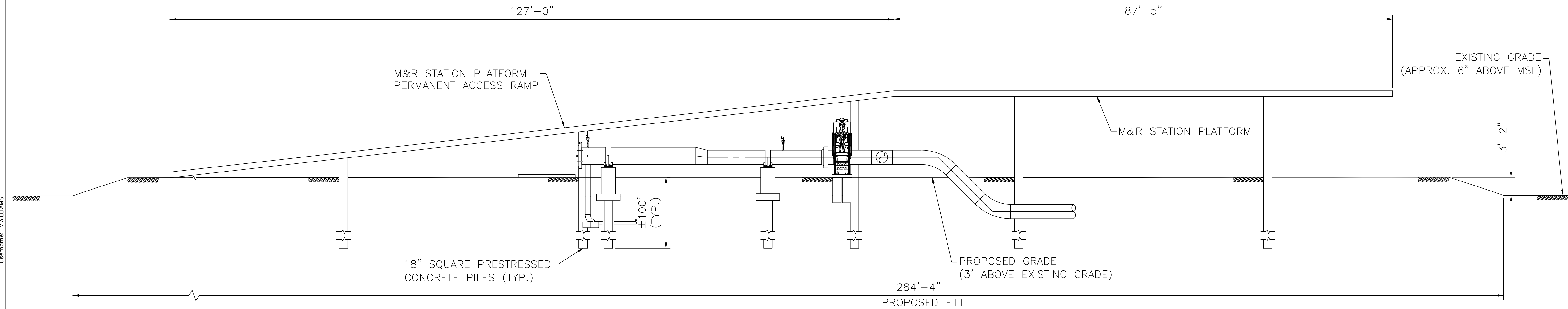
YEAR: 2021 | W.B.S. CE.000170.002.10.01 | SCALE: 1" = 400'-0" | DWG: GRCH-P-8410 | REV: H



Texas Eastern Transmission, LP
 5800 Westheimer C1, Houston, TX 77056-5110 | 281-5400

AFFECTED AREAS	ACRES
TEMPORARY WORKSPACE-WETLAND	3.563
TEMPORARY WORKSPACE-NON WETLAND	6.356
PERMANENT FILL-WETLAND	0.39
PERMANENT EASEMENT, RESTORED FOLLOWING CONSTRUCTION-WETLAND	0.79
PERMANENT EASEMENT-NON WETLAND	2.144

CALCULATIONS (APPROXIMATE)	
3,735 CUBIC YARDS CUT AND RE-FILL DUE TO TRENCHING	
10,195 CUBIC YARDS OF DIRT FILL	
1,853 CUBIC YARDS OF GRAVEL FILL	
1,835 CUBIC YARDS DISPLACED DUE TO DRIVEN PILES & PIPE SUPPORTS	



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- THE QUANTITY, SIZE, AND DEPTH OF THE PRESTRESSED CONCRETE PILES TO SUPPORT THE M&R STATION PLATFORM AND ACCESS RAMP ARE ESTIMATES, AND ARE SUBJECT TO DESIGN MODIFICATION PRIOR TO CONSTRUCTION. CURRENT DESIGN INCLUDES APPROXIMATELY (120) 18" SQUARE PILES AT A DEPTH OF 100' BELOW GRADE FOR TRANSCAMERON METER AND REGULATOR STATION AND INTERCONNECTING PIPING.
- FULL PILE DESIGN NOT SHOWN FOR CLARITY.

SECTION B-B'
SEE DWG. GRCH-P-8410
NOT TO SCALE

COASTAL NOTES:

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Username:

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			△	TRD	MW	REVISED FOR OCM COMMENTS (04-07-20)
			△	TRD	JPB	REVISED FOR OCM COMMENTS (02-27-20)
			△	JPB	DP	REVISED FOR OCM COMMENTS (01-29-20)
			△	WB	TRD	REVISED FOR ENVIRONMENTAL PERMITTING REVIEW (11-08-19)
			△	WB	TRD	REVISED FOR ENVIRONMENTAL PERMITTING REVIEW (11-06-19)

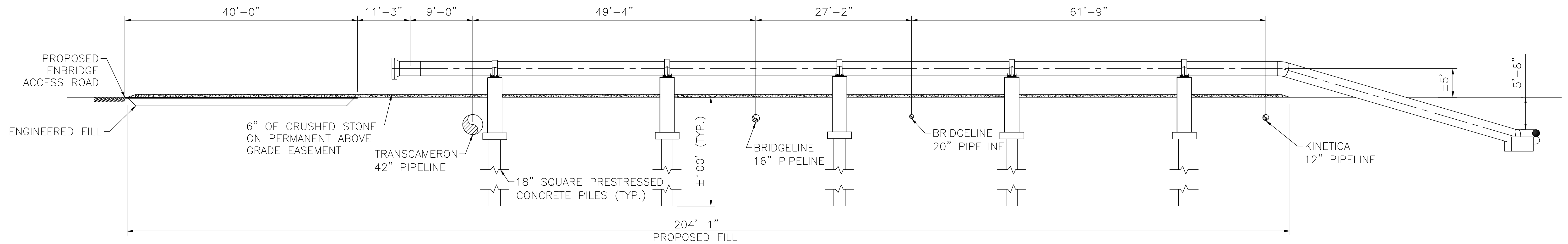
ENGINEERING APPROVALS		CONSTRUCTION	
DRAWN BY	BID		
TITLE	SIGNATURE	DATE	DATE

CAMERON EXTENSION PROJECT EXISTING 30" LINE 41 TRANSCAMERON METER AND REGULATOR STATION AND INTERCONNECTING PIPING USACE/OCM JOINT PERMIT EXHIBIT			
LOC.	CAMERON PARISH, LOUISIANA		
YEAR:	2021	W.B.S. CE.000170.002.10.01	SCALE: N.T.S.

<small>28100 TORCH PARKWAY WARRENVILLE, IL 60058 TEL: 630-353-4000 FAX: 630-353-7777 WWW.ENENGINEERING.COM</small>		<small>Texas Eastern Transmission L.P. 5400 Westheimer Ct. Houston, TX 77056-5310 713 627-5400</small>	

AFFECTED AREAS	ACRES
TEMPORARY WORKSPACE-WETLAND	3.563
TEMPORARY WORKSPACE-NON WETLAND	6.356
PERMANENT FILL-WETLAND	0.39
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PERMANENT EASEMENT-NON WETLAND	2.144

CALCULATIONS (APPROXIMATE)
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SECTION E-E'
SEE DWG. GRCH-P-8410
NOT TO SCALE

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- FULL PILE DESIGN NOT SHOWN FOR CLARITY.

COASTAL NOTES:

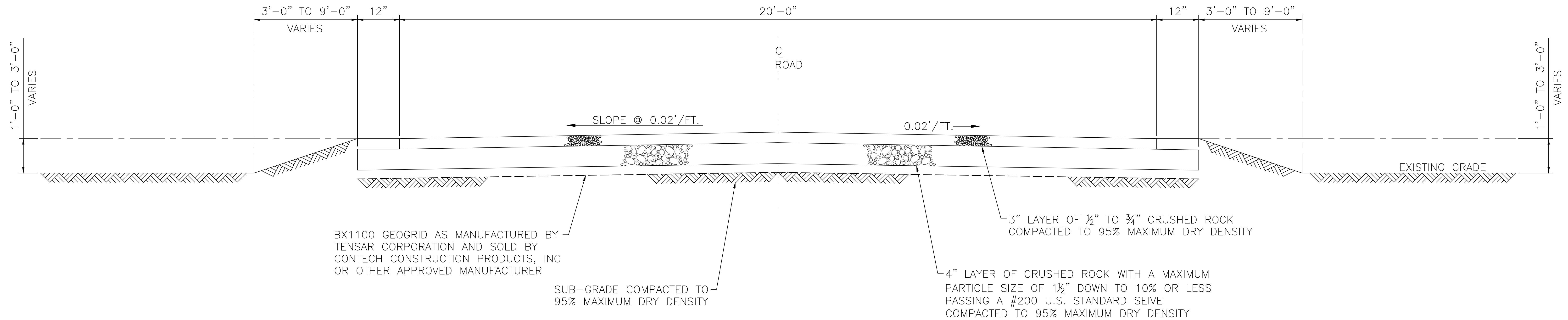
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DWG. NO.	GRCH-P-8410	TRANS CAMERON METER AND REGULATOR STATION USACE/OCM JOINT PERMIT EXHIBIT	REV	DSN	CK	DESCRIPTION	 28100 TORCH PARKWAY WARRENVILLE, IL 60555 TEL: 630-353-4000 FAX: 630-353-7777 WWW.ENENGINEERING.COM	ENGINEERING APPROVALS					CAMERON EXTENSION PROJECT EXISTING 30" LINE 41 TRANSCAMERON METER AND REGULATOR STATION AND INTERCONNECTING PIPING USACE/OCM JOINT PERMIT EXHIBIT		 Texas Eastern Transmission, LP 5400 Westheimer Ct, Houston, TX 77056-5310 713 / 627-5400					
	REFERENCE DWG.								DRAWN BY	BID	CONSTRUCTION	LOC.	CAMERON PARISH, LOUISIANA	YEAR:	2021	W.B.S CE000170.002.10.01	SCALE:	N.T.S.	DWG.	GRCH-P-8413

Model: MLLIAMS
 Username: MLLIAMS

Drawing: I:\Projects\ENB\194601\00\6 - Working Drawings\Mechanical Drawings\GRCH-P-8414.dwg
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SECTION F-F'
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 NOT TO SCALE

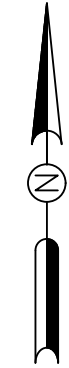
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AFFECTED AREAS	ACRES
TEMPORARY WORKSPACE-WETLAND	3.563
TEMPORARY WORKSPACE-NON WETLAND	6.356
PERMANENT FILL-WETLAND	0.39
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/G#	GRCH-P-8410	TRANS CAMERON METER AND REGULATOR STATION USACE/OCM JOINT PERMIT EXHIBIT	TRD	MW	REVISED INTERCONNECT & ACCESS ROADS (04-22-2020)	 28100 TORCH PARKWAY WARRENVILLE, IL 60555 TEL: 630-353-4000 FAX: 630-353-7777 WWW.ENENGINEERING.COM	ENGINEERING APPROVALS			CAMERON EXTENSION PROJECT EXISTING 30" LINE 41 TRANS CAMERON METER AND REGULATOR STATION AND INTERCONNECTING PIPING USACE/OCM JOINT PERMIT EXHIBIT	 Texas Eastern Transmission, LP 5400 Westheimer Ct. Houston, TX 77056-5310 627-5400					
	DWG. NO.	REFERENCE DWG.	REV	DSN	CK		DESCRIPTION	DRAWN BY	BID			CONSTRUCTION	LOC.	CAMERON PARISH, LOUISIANA		
							TITLE	SIGNATURE	DATE	SIGNATURE	DATE	YEAR: 2021	W.B.S CE000170.002.10.01	SCALE: N.T.S.	DWG. GRCH-P-8414	REV. F



AFFECTED AREAS	ACRES
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COASTAL NOTES:

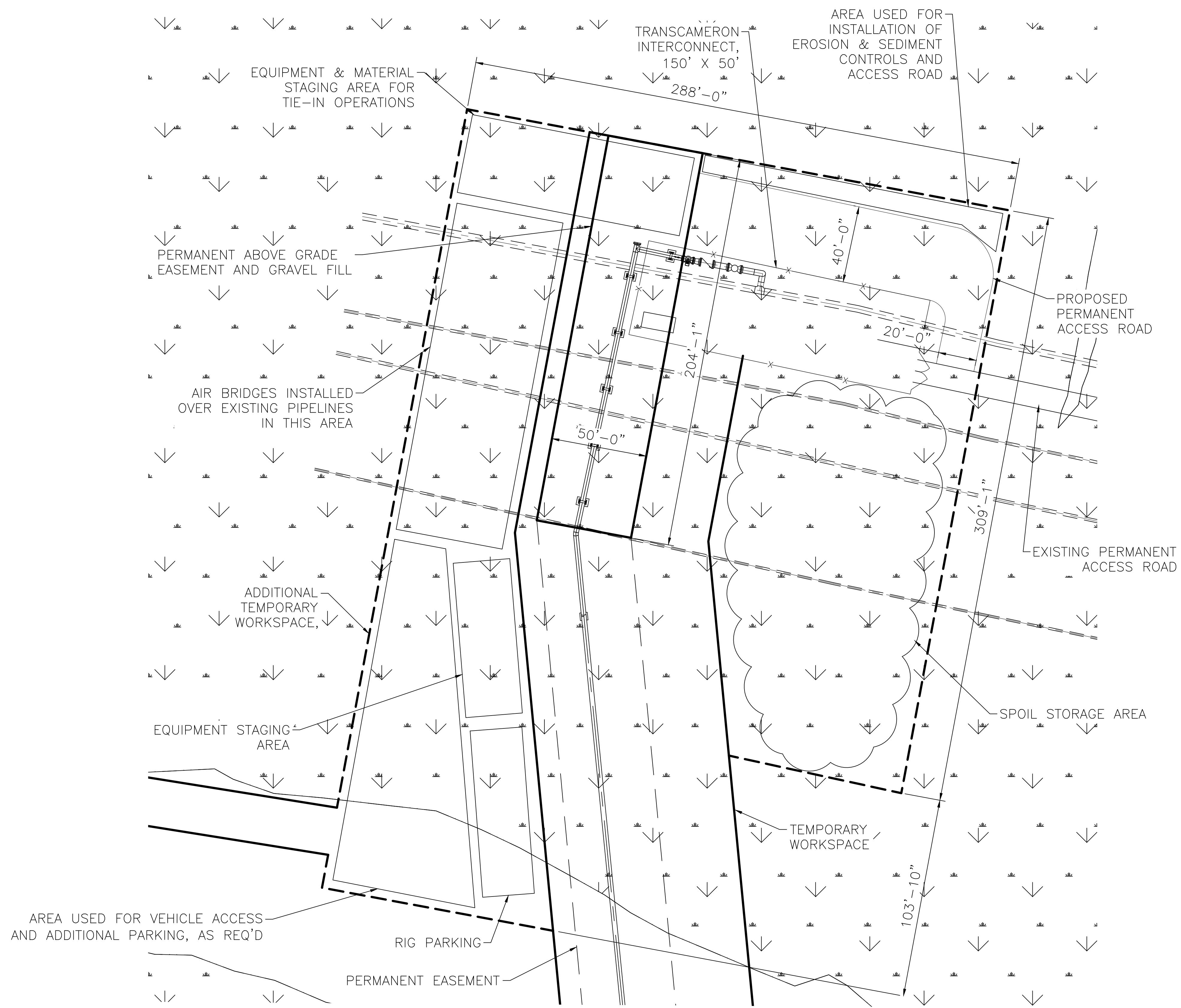
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LEGEND

PERMANENT ABOVE GRADE EASEMENT	—————
TEMPORARY WORKSPACE	—————
ADDITIONAL TEMPORARY WORKSPACE	- - - - -
PERMANENT EASEMENT	—————
WETLANDS	~~~~~
STREAM	—————



ADDITIONAL TEMPORARY WORKSPACE DETAIL *

*CONCEPTUAL LAYOUT, FOR INFORMATION ONLY
SEE DWG. GRCH-P-8410
1" = 30'-0"

										ENEngineering 28100 TORCH PARKWAY WARRENVILLE, IL 60555 TEL. 630-353-4000 FAX 630-353-7777 WWW.ENENGINEERING.COM		ENGINEERING APPROVALS <table border="1"> <thead> <tr> <th>DRAWN BY</th> <th>BID</th> <th>CONSTRUCTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		DRAWN BY	BID	CONSTRUCTION				CAMERON EXTENSION PROJECT EXISTING 30" LINE 41 TRANSCAMERON METER AND REGULATOR STATION AND INTERCONNECTING PIPING USAGE/OCM JOINT PERMIT EXHIBIT			
DRAWN BY	BID	CONSTRUCTION																					
GRCH-P-8410		TRANSCAMERON METER AND REGULATOR STATION USAGE/OCM JOINT PERMIT EXHIBIT		REVISED INTERCONNECT & ACCESS ROADS (04-22-2020)		REVISED FOR OCM COMMENTS (04-07-20)		LOC. CAMERON PARISH, LOUISIANA		Texas Eastern Transmission, LP 5400 Westheimer Ct. Houston, TX 77056-2310 713 / 627-5400		YEAR: 2021		W.B.S. CE.000170.002.10.01		SCALE: 1" = 30'-0"		DWG. GRCH-P-8415		REV. B			
DWG. NO.		REFERENCE DWG.		REV		DSN		CK		DESCRIPTION		TITLE		SIGNATURE		DATE		SIGNATURE		DATE			