

# JOINT PUBLIC NOTICE

June 2, 2014

United States Army  
Corps of Engineers  
New Orleans District  
Regulatory Branch  
Post Office Box 60267  
New Orleans, Louisiana 70160-0267

(504) 862-1564

[Stephanie.L.Castaing@usace.army.mil](mailto:Stephanie.L.Castaing@usace.army.mil)

Project Manager  
Stephanie Castaing  
Permit Application Number  
MVN 2014-0338-EPP

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

(225) 219-3225

Project Manager  
Elizabeth Johnson  
WQC Application Number  
WQC 140422-01

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

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

## **12" ETHANE GAS PIPELINE IN ST. CHARLES PARISH**

**NAME OF APPLICANT:** Enterprise Products Operating on behalf of Enterprise Liquids Pipeline, LLC, c/o Atkins North America, Inc., 909 ESE Loop 323, Suite 360, Tyler, Texas 75701.

**LOCATION OF WORK:** The project begins east of Laplace, at an existing facility, approximately 2.0 miles south of the intersection of I-10 and I-55. The alignment will travel southeast, terminating north of Norco, at an existing facility approximately 0.2 miles east of intersection of U.S. Highway 61 and LA Highway 48, in St. Charles Parish, Louisiana, as shown on the attached drawings.

Latitude: 30.058202/Longitude: -90.423453 (POB) Latitude: 30.015270/Longitude -90.404409 (POE); Hydrologic Unit Codes: 08070203, 08070204 – Lake Pontchartrain/Breton Sound/Chandeleur Sound.

**CHARACTER OF WORK:** Install and maintain approximately 3.4 miles of new 12" ethane gas pipeline within a newly constructed right-of-way (ROW) and utilize an approximate 75' wide construction corridor, which consist of a 50' wide permanent ROW easement and a 25' wide temporary workspace. Project implementation would require excavation and deposition of approximately 28,071.39 cubic yards of native material and deposit approximately 871.2 cubic yards of crushed stone/gravel. Approximately 27.0 acres of wetlands and/or waters of the U.S. will be directly impacted by the proposed activity. The applicant has proposed that unavoidable impacts to wetlands as a result of the proposed project be mitigated at Timberton Mitigation Bank.

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

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

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

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

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

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

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 **27.0** 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, Water Quality Certifications, before a permit is issued.

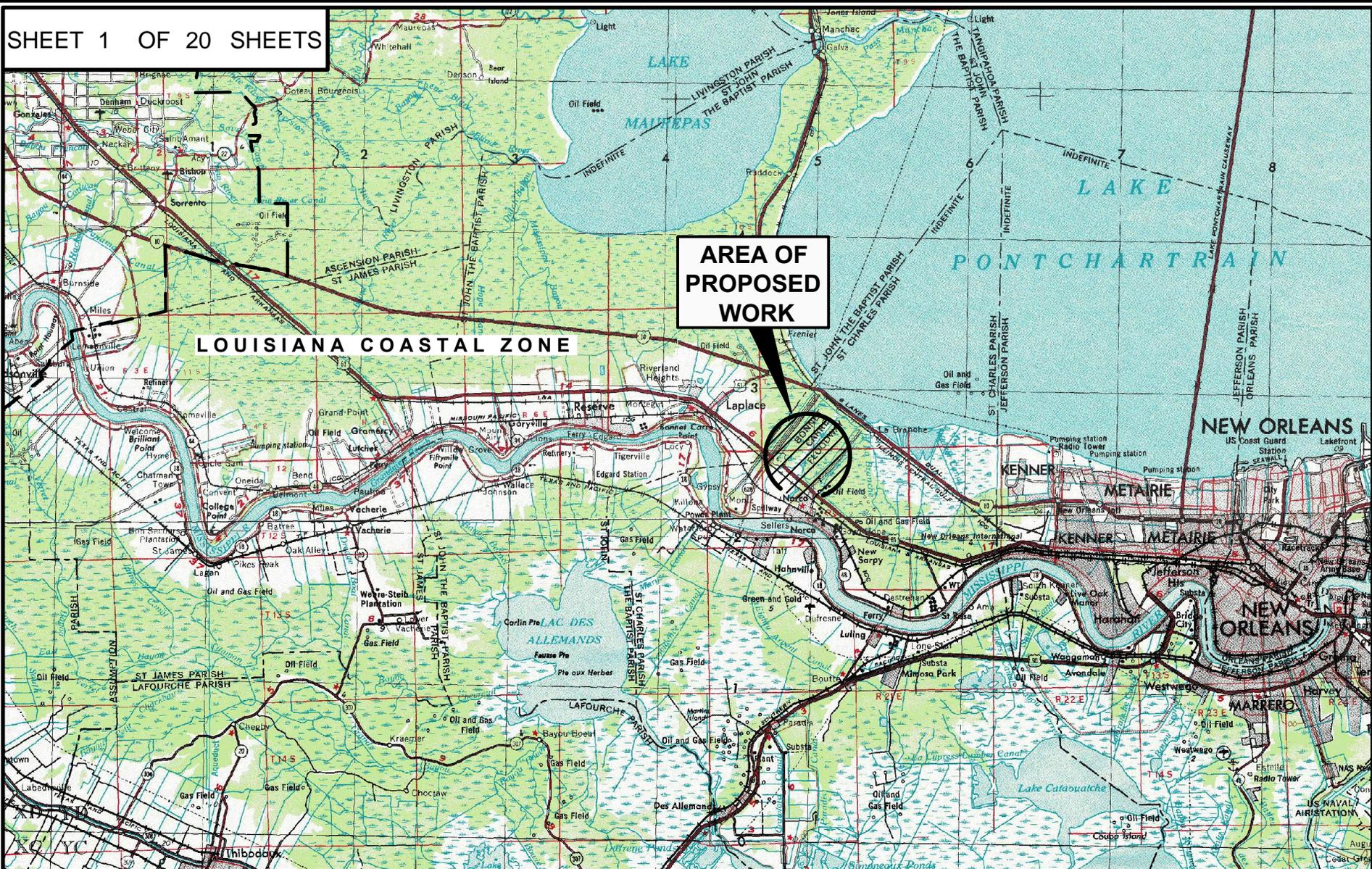
Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for public hearings shall state, with particularity, the reasons for holding a public hearing.

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

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

Michael V. Farabee  
Chief, Eastern Evaluation Section

Enclosure



NAD 83 LA. SOUTH ZONE

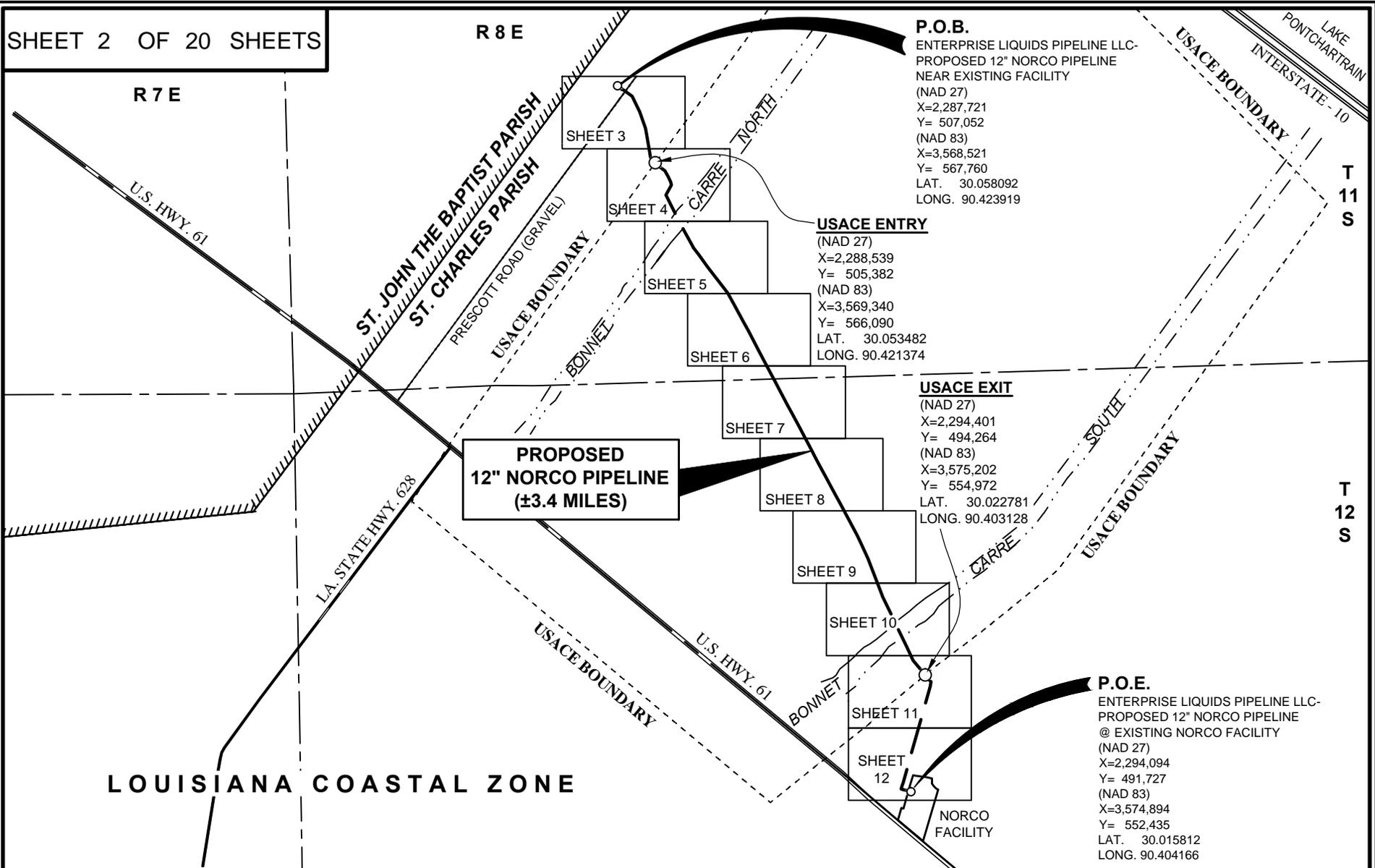
NOTE:  
THE CONTENTS OF THESE  
PLANS ARE INTENDED  
EXCLUSIVELY FOR THE  
PURPOSE OF OBTAINING  
ENVIRONMENTAL  
COMPLIANCE PERMITS

VICINITY MAP

**ENTERPRISE LIQUIDS PIPELINE LLC**  
 PROPOSED 12" NORCO PIPELINE & ACCESS ROADS  
 SECTIONS 32,42 & 43, T11S-R8E & SECTIONS 21, 22, 25 & 26, T12S-R8E  
 ST. CHARLES PARISH, LOUISIANA

Lafayette New Orleans Houston  
 135 Regency Sq. Lafayette, LA 70508  
 Ph. 337-237-2200 Fax. 337-232-3299

DRAWN BY: TNV	REVISIONS		
PROJ. MGR.: LJB	No. 3	DATE: 3-31-14	REVISED BY: TNV
DATE: 12-20-13	No. 4	DATE: 4-24-14	REVISED BY: TNV
FILENAME: T:\2013\2131864\DWG\COE\2131864_Enterprise - Norco Pipeline - COE Permits.dwg			



**P.O.B.**  
 ENTERPRISE LIQUIDS PIPELINE LLC-  
 PROPOSED 12" NORCO PIPELINE  
 NEAR EXISTING FACILITY  
 (NAD 27)  
 X=2,287,721  
 Y= 507,052  
 (NAD 83)  
 X=3,568,521  
 Y= 567,760  
 LAT. 30.058092  
 LONG. 90.423919

**USACE ENTRY**  
 (NAD 27)  
 X=2,288,539  
 Y= 505,382  
 (NAD 83)  
 X=3,569,340  
 Y= 566,090  
 LAT. 30.053482  
 LONG. 90.421374

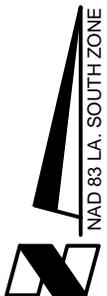
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 Y= 494,264  
 (NAD 83)  
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 Y= 554,972  
 LAT. 30.022781  
 LONG. 90.403128

**P.O.E.**  
 ENTERPRISE LIQUIDS PIPELINE LLC-  
 PROPOSED 12" NORCO PIPELINE  
 @ EXISTING NORCO FACILITY  
 (NAD 27)  
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 Y= 491,727  
 (NAD 83)  
 X=3,574,894  
 Y= 552,435  
 LAT. 30.015812  
 LONG. 90.404166

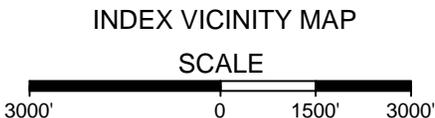
LOUISIANA COASTAL ZONE

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ST. JOHN THE BAPTIST PARISH  
ST. CHARLES PARISH

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Y= 507,052  
(NAD 83)  
X=3,568,521  
Y= 567,760  
LAT. 30.058092  
LONG. 90.423919

SEE  
INSET PLAN VIEW "A"  
(SHEET 13 OF 20)

PROPOSED  
ROAD BORE  
(SEE TYP. ROAD CROSSING SHEET 17 OF 20)

SEC. 42

LOUISIANA COASTAL ZONE

T  
11  
S

SEC. 44

SEC. 43

ADDITIONAL  
WORKSPACE

**PROPOSED  
12" NORCO PIPELINE  
(±3.4 MILES)**

SEE  
EASEMENT  
TYPICAL "A"  
(SHEET 16 OF 20)

SEC. 32

MATCHLINE "A"

**LEGEND:**

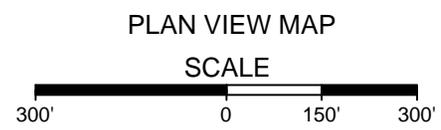
- PEM
- PFO1
- PFO2
- PUB
- STREAMS
- EXISTING PIPELINES
- LEVEE

PRESCOTT ROAD (GRAVEL) FOR TEMPORARY ACCESS

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MATCHLINE "A"

**USACE ENTRY**

(NAD 27)  
 X=2,288,539  
 Y= 505,382  
 (NAD 83)  
 X=3,569,340  
 Y= 566,090  
 LAT. 30.053482  
 LONG. 90.421374

PROPOSED FILL AREA  
 (TOTAL = ±0.65 ACRES)

SEC. 42

**PROPOSED  
 12" NORCO PIPELINE  
 (±3.4 MILES)**

SEE  
 EASEMENT "A"  
 TYPICAL  
 (SHEET 16 OF 20)

**HDD**

SEE  
 EASEMENT  
 TYPICAL "B"  
 (SHEET 16 OF 20)

MATCHLINE "B"

T  
11  
S

SEC. 32

**LEGEND:**

- PEM
- PFO1
- PFO2
- PUB
- STREAMS
- EXISTING PIPELINES
- LEVEE

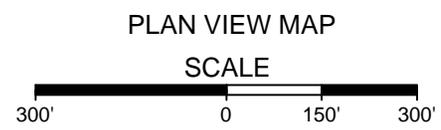
**HDD BORE ENTRY/EXIT**

LOUISIANA COASTAL ZONE  
 USACE BOUNDARY

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MATCHLINE "B"

SEE  
EASEMENT  
TYPICAL "B"  
(SHEET 16 OF 20)

HDD

BONNET CARRE NORTH

ADDITIONAL  
WORKSPACE  
FOR HDD  
BORE EXIT

SEC. 32

EXISTING PIPELINE

**LEGEND:**

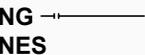
PEM 

PFO1 

PFO2 

PUB 

STREAMS 

EXISTING  
PIPELINES 

LEVEE 

**PROPOSED  
12" NORCO PIPELINE  
(±3.4 MILES)**

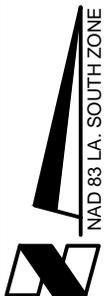
SEE  
EASEMENT  
TYPICAL "A"  
(SHEET 16 OF 20)

MATCHLINE "C"

 HDD BORE ENTRY/EXIT

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ST. CHARLES PARISH, LOUISIANA



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PLAN VIEW MAP  
SCALE



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REVISIONS

PROJ. MGR.: LJB

No. 3

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DATE: 12-20-13

No. 4

DATE: 4-24-14

REVISED BY: TNV

FILENAME: T:\2013\2131864\DWG\COE\2131864\_Enterprise - Norco Pipeline - COE Permits.dwg

MATCHLINE "C"

**PROPOSED  
12" NORCO PIPELINE  
(±3.4 MILES)**

EXISTING PIPELINE

SEE  
EASEMENT  
TYPICAL "A"  
(SHEET 16 OF 20)

SEC. 32

SEC. 33

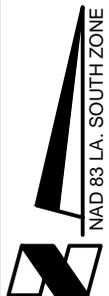
MATCHLINE "D"

**LEGEND:**

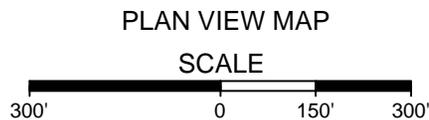
- PEM
- PFO1
- PFO2
- PUB
- STREAMS
- EXISTING PIPELINES
- LEVEE

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MATCHLINE "D"

SEC. 32

SEC. 33

T 11 S - R 8 E  
T 12 S - R 8 E

**PROPOSED  
12" NORCO PIPELINE  
(±3.4 MILES)**

SEE  
EASEMENT  
TYPICAL "A"  
(SHEET 16 OF 20)

SEC. 25

EXISTING PIPELINE

CANAL

SEC. 26

ADDITIONAL  
WORKSPACE

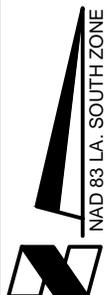
MATCHLINE "E"

**LEGEND:**

- PEM
- PFO1
- PFO2
- PUB
- STREAMS
- EXISTING PIPELINES
- LEVEE

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PLAN VIEW MAP  
SCALE



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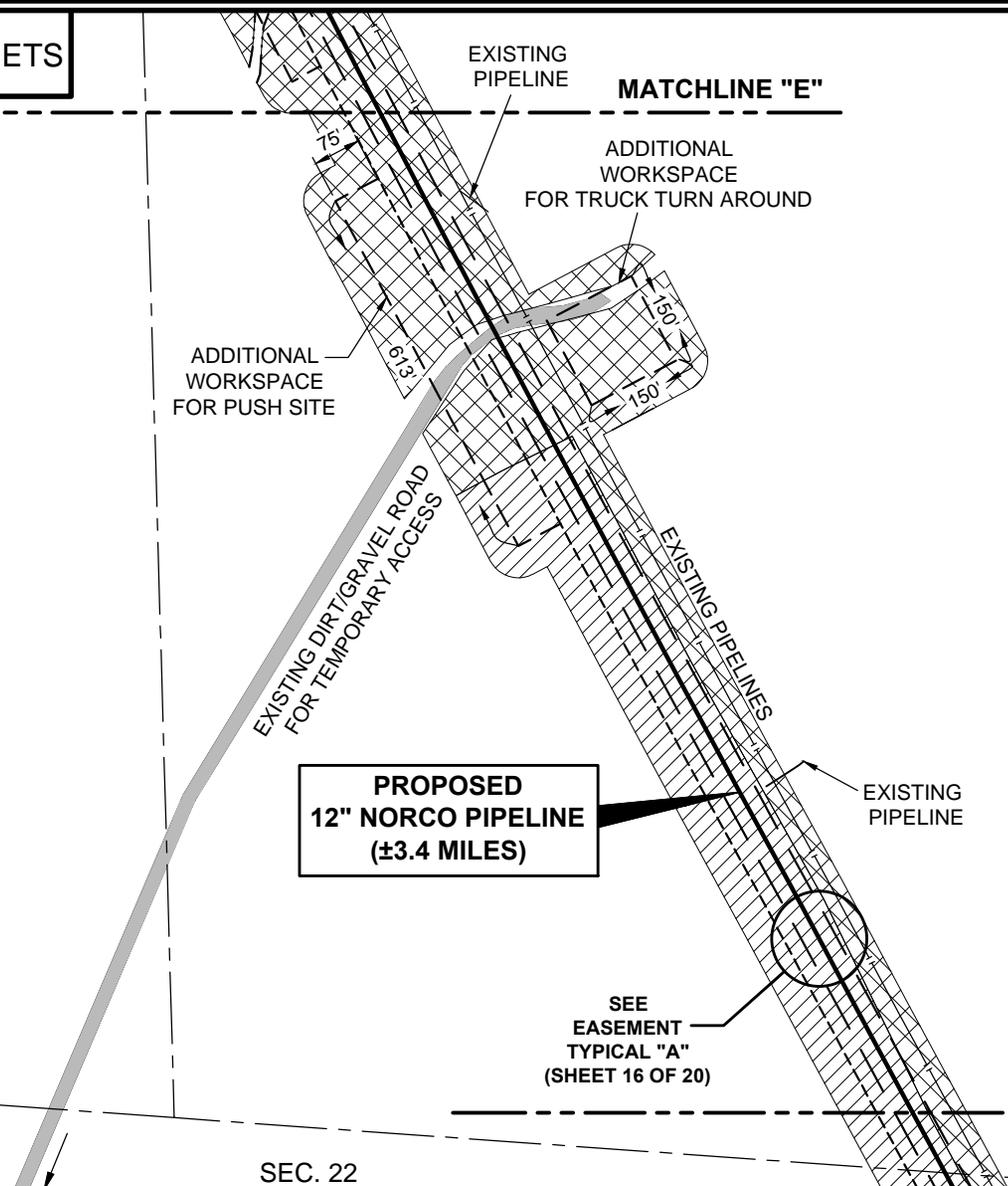
SEC. 25

SEC. 26

SEC. 22

**LEGEND:**

- PEM
- PFO1
- PFO2
- PUB
- STREAMS
- EXISTING PIPELINES
- LEVEE

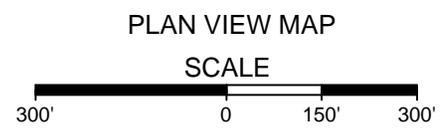


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MATCHLINE "F"

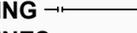
SEC. 22

**PROPOSED  
12" NORCO PIPELINE  
(±3.4 MILES)**

SEC. 21

T  
12  
S

**LEGEND:**

- PEM 
- PFO1 
- PFO2 
- PUB 
- STREAMS 
- EXISTING PIPELINES 
- LEVEE 

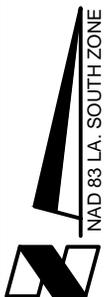
SEE  
EASEMENT  
TYPICAL "A"  
(SHEET 16 OF 20)

EXISTING PIPELINE

MATCHLINE "G"

**ENTERPRISE LIQUIDS PIPELINE LLC**

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PLAN VIEW MAP  
SCALE



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MATCHLINE "G"

**PROPOSED  
12" NORCO PIPELINE  
(±3.4 MILES)**

SEE  
EASEMENT  
TYPICAL "A"  
(SHEET 16 OF 20)

ADDITIONAL  
WORKSPACE  
FOR HDD  
BORE EXIT

SEC. 22

SEC. 21

HDD

SEE  
EASEMENT  
TYPICAL "B"  
(SHEET 16 OF 20)

EXISTING PIPELINE

SOUTH

CARRE

BONNET

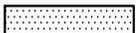
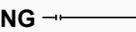
ADDITIONAL  
WORKSPACE  
FOR HDD  
BORE ENTRY

GRAVEL / DIRT ROAD

GRAVEL / DIRT ROAD

MATCHLINE "H"

**LEGEND:**

- PEM 
- PFO1 
- PFO2 
- PUB 
- STREAMS 
- EXISTING PIPELINES 
- LEVEE 

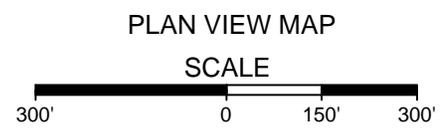
 HDD BORE ENTRY/EXIT

**ENTERPRISE LIQUIDS PIPELINE LLC**

PROPOSED 12" NORCO PIPELINE & ACCESS ROADS  
SECTIONS 32,42 & 43, T11S-R8E & SECTIONS 21, 22, 25 & 26, T12S-R8E  
ST. CHARLES PARISH, LOUISIANA



NOTE:  
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PURPOSE OF OBTAINING  
ENVIRONMENTAL  
COMPLIANCE PERMITS




Lafayette New Orleans Houston  
135 Regency Sq. Lafayette, LA 70508  
Ph. 337-237-2200 Fax. 337-232-3299

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PROJ. MGR.: LJB	No. 3	DATE: 3-31-14	REVISED BY: TNV
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SEC. 21

T  
12  
S

**LEGEND:**

- PEM 
- PFO1 
- PFO2 
- PUB 
- STREAMS 
- EXISTING PIPELINES 
- LEVEE 

**PROPOSED  
12" NORCO PIPELINE  
(±3.4 MILES)**

**PROPOSED FILL AREAS  
(TOTAL = ±0.89 ACRES)**

**USACE EXIT**

(NAD 27)  
X=2,294,401  
Y= 494,264  
(NAD 83)  
X=3,575,202  
Y= 554,972  
LAT. 30.022781  
LONG. 90.403128

**HDD**

**HDD BORE ENTRY/EXIT**

MATCHLINE "H"

MATCHLINE "I"

SEE  
EASEMENT  
TYPICAL "A"  
(SHEET 16 OF 20)

SEE  
EASEMENT  
TYPICAL "B"  
(SHEET 16 OF 20)

ADDITIONAL  
WORKSPACE

ADDITIONAL  
WORKSPACE  
FOR HDD  
BORE ENTRY

EXISTING GRAVEL / DIRT ROAD  
EXISTING GRAVEL / DIRT ROAD  
USACE BOUNDARY  
LOUISIANA COASTAL ZONE

EXISTING DIRT / GRAVEL ROAD FOR ACCESS

EXISTING PIPELINES

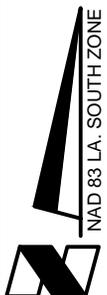
SEE  
EASEMENT  
TYPICAL "B"  
(SHEET 16 OF 20)

POND

**HDD**

**ENTERPRISE LIQUIDS PIPELINE LLC**

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PLAN VIEW MAP  
SCALE



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LOUISIANA COASTAL ZONE

SEC. 21

T  
12  
S

SEC. 6

U.S. HWY. 61

EXISTING DIRT / GRAVEL ROAD FOR TEMPORARY ACCESS

GRAVEL PARKING LOT

CANAL

POND

HDD

SEE  
EASEMENT  
TYPICAL "B"  
(SHEET 16 OF 20)

TEMPORARY  
ACCESS  
(40' x ±400')

ADDITIONAL  
WORKSPACE

NORCO FACILITY

SEE  
INSET PLAN VIEW "B"  
(SHEET 14 OF 20)

LEGEND:

- PEM 
- PFO1 
- PFO2 
- PUB 
- STREAMS 
- EXISTING PIPELINES 
- LEVEE 

P.O.E.

ENTERPRISE LIQUIDS PIPELINE LLC-  
PROPOSED 12" NORCO PIPELINE  
@ EXISTING NORCO FACILITY  
(NAD 27)  
X=2,294,094  
Y= 491,727  
(NAD 83)  
X=3,574,894  
Y= 552,435  
LAT. 30.015812  
LONG. 90.404166

 HDD BORE ENTRY/EXIT

ENTERPRISE LIQUIDS PIPELINE LLC

PROPOSED 12" NORCO PIPELINE & ACCESS ROADS  
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ST. CHARLES PARISH, LOUISIANA



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PLAN VIEW MAP  
SCALE



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SEC. 44

**P.O.B.**  
 ENTERPRISE LIQUIDS PIPELINE LLC-  
 PROPOSED 12" NORCO PIPELINE  
 NEAR EXISTING FACILITY  
 (NAD 27)  
 X=2,287,721  
 Y= 507,052  
 (NAD 83)  
 X=3,568,521  
 Y= 567,760  
 LAT. 30.058092  
 LONG. 90.423919

**PROPOSED  
 12" FEEDER PIPELINE  
 (±140')**

P.I.  
 (NAD 27)  
 X=2,287,712  
 Y= 507,040  
 (NAD 83)  
 X=3,568,512  
 Y= 567,748  
 LAT. 30.058059  
 LONG. 90.423948

EXISTING FACILITY

PROPOSED  
 (100'x100')  
 PERMANENT SITE

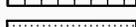
TIE-IN TO EXISTING PIPELINE  
 (NAD 27)  
 X=2,287,808  
 Y= 506,970  
 (NAD 83)  
 X=3,568,609  
 Y= 567,678  
 LAT. 30.057865  
 LONG. 90.423645

SEC. 43

SEC. 42

T  
11  
S

**LEGEND:**

- PEM 
- PFO1 
- PFO2 
- PUB 
- STREAMS 
- EXISTING PIPELINES 
- LEVEE 

ADDITIONAL  
 WORKSPACE

PROPOSED  
 ACCESS ROAD  
 WITH (2) 30'x30'  
 WINGS

ADDITIONAL  
 WORKSPACE

PERMANENT EASEMENT  
 PERMANENT EASEMENT  
 TEMPORARY EASEMENT  
 ADDITIONAL WORKSPACE

**PROPOSED  
 12" NORCO PIPELINE  
 (±3.4 MILES)**

**ENTERPRISE LIQUIDS PIPELINE LLC**

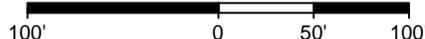
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 ST. CHARLES PARISH, LOUISIANA



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INSET PLAN VIEW "A"

SCALE



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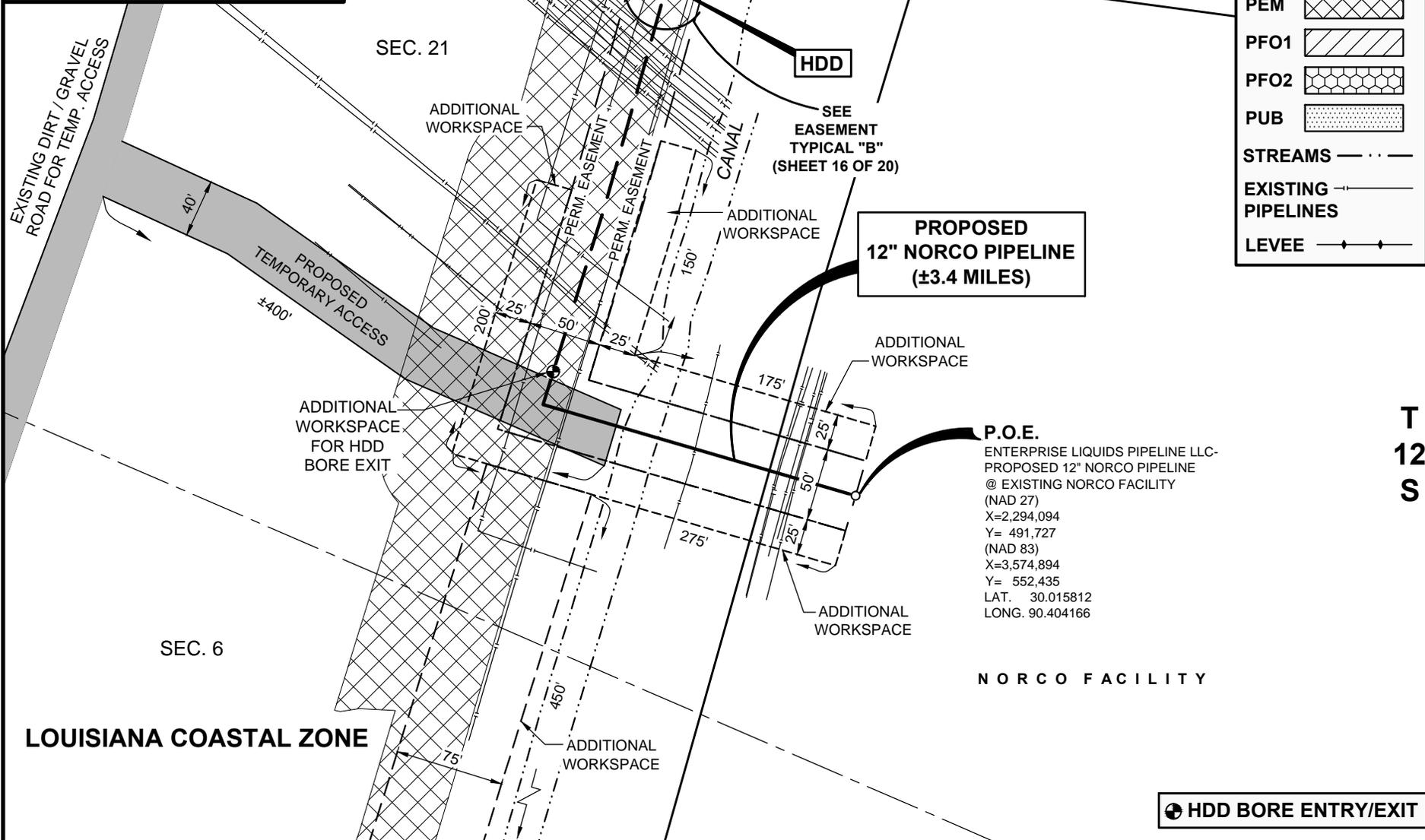
DATE: 4-24-14

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**LEGEND:**

- PEM
- PFO1
- PFO2
- PUB
- STREAMS
- EXISTING PIPELINES
- LEVEE



T  
12  
S

LOUISIANA COASTAL ZONE

HDD BORE ENTRY/EXIT

**ENTERPRISE LIQUIDS PIPELINE LLC**

PROPOSED 12" NORCO PIPELINE & ACCESS ROADS  
 SECTIONS 32,42 & 43, T11S-R8E & SECTIONS 21, 22, 25 & 26, T12S-R8E  
 ST. CHARLES PARISH, LOUISIANA



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INSET PLAN VIEW "B"  
 SCALE



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PROPOSED 12" NORCO PIPELINE															
	NAD27	NAD 83	NAD83												
1	X= 2,287,721 Y= 507,052	X= 3,568,521 Y= 567,760	Lat. 30.058092 Long. 90.423919	16	X= 2,288,775 Y= 505,157	X= 3,569,576 Y= 565,865	Lat. 30.052858 Long. 90.420634	31	X= 2,290,777 Y= 501,310	X= 3,571,577 Y= 562,018	Lat. 30.042236 Long. 90.414404	46	X= 2,292,566 Y= 497,956	X= 3,573,367 Y= 558,663	Lat. 30.032973 Long. 90.408833
2	X= 2,288,032 Y= 506,825	X= 3,568,833 Y= 567,533	Lat. 30.057461 Long. 90.422939	17	X= 2,288,812 Y= 505,084	X= 3,569,613 Y= 565,792	Lat. 30.052657 Long. 90.420518	32	X= 2,291,041 Y= 500,809	X= 3,571,841 Y= 561,517	Lat. 30.040853 Long. 90.413583	47	X= 2,292,722 Y= 497,668	X= 3,573,522 Y= 558,376	Lat. 30.032178 Long. 90.408350
3	X= 2,288,196 Y= 506,486	X= 3,568,997 Y= 567,194	Lat. 30.056524 Long. 90.422430	18	X= 2,288,869 Y= 504,971	X= 3,569,669 Y= 565,678	Lat. 30.052343 Long. 90.420342	33	X= 2,291,146 Y= 500,619	X= 3,571,947 Y= 561,327	Lat. 30.040327 Long. 90.413254	48	X= 2,292,924 Y= 497,291	X= 3,573,724 Y= 557,998	Lat. 30.031136 Long. 90.407721
4	X= 2,288,322 Y= 506,132	X= 3,569,123 Y= 566,840	Lat. 30.055550 Long. 90.422040	19	X= 2,288,888 Y= 504,900	X= 3,569,689 Y= 565,607	Lat. 30.052147 Long. 90.420283	34	X= 2,291,270 Y= 500,386	X= 3,572,071 Y= 561,094	Lat. 30.039685 Long. 90.412869	49	X= 2,293,015 Y= 497,100	X= 3,573,816 Y= 557,808	Lat. 30.030610 Long. 90.407436
5	X= 2,288,346 Y= 505,996	X= 3,569,146 Y= 566,704	Lat. 30.055174 Long. 90.421970	20	X= 2,288,766 Y= 504,679	X= 3,569,567 Y= 565,387	Lat. 30.051543 Long. 90.420673	35	X= 2,291,409 Y= 500,123	X= 3,572,210 Y= 560,830	Lat. 30.038957 Long. 90.412436	50	X= 2,293,156 Y= 496,788	X= 3,573,956 Y= 557,495	Lat. 30.029748 Long. 90.407001
6	X= 2,288,414 Y= 505,616	X= 3,569,214 Y= 566,324	Lat. 30.054129 Long. 90.421764	21	X= 2,288,917 Y= 504,380	X= 3,569,717 Y= 565,088	Lat. 30.050719 Long. 90.420206	36	X= 2,291,517 Y= 499,921	X= 3,572,318 Y= 560,629	Lat. 30.038400 Long. 90.412100	51	X= 2,293,461 Y= 495,997	X= 3,574,262 Y= 556,704	Lat. 30.027566 Long. 90.406055
7	X= 2,288,435 Y= 505,493	X= 3,569,236 Y= 566,200	Lat. 30.053788 Long. 90.421700	22	X= 2,289,147 Y= 503,930	X= 3,569,948 Y= 564,638	Lat. 30.049477 Long. 90.419489	37	X= 2,291,695 Y= 499,598	X= 3,572,496 Y= 560,305	Lat. 30.037507 Long. 90.411545	52	X= 2,294,140 Y= 494,580	X= 3,574,941 Y= 555,287	Lat. 30.023654 Long. 90.403947
8	X= 2,288,506 Y= 505,414	X= 3,569,307 Y= 566,122	Lat. 30.053571 Long. 90.421477	23	X= 2,289,355 Y= 503,553	X= 3,570,156 Y= 564,261	Lat. 30.048436 Long. 90.418841	38	X= 2,291,759 Y= 499,474	X= 3,572,559 Y= 560,182	Lat. 30.037165 Long. 90.411347	53	X= 2,294,527 Y= 494,113	X= 3,575,328 Y= 554,821	Lat. 30.022364 Long. 90.402736
9	X= 2,288,630 Y= 505,293	X= 3,569,430 Y= 566,001	Lat. 30.053235 Long. 90.421089	24	X= 2,289,471 Y= 503,395	X= 3,570,272 Y= 564,103	Lat. 30.047997 Long. 90.418479	39	X= 2,291,891 Y= 499,219	X= 3,572,692 Y= 559,927	Lat. 30.036462 Long. 90.410935	54	X= 2,294,512 Y= 494,030	X= 3,575,312 Y= 554,738	Lat. 30.022134 Long. 90.402787
10	X= 2,288,655 Y= 505,274	X= 3,569,455 Y= 565,982	Lat. 30.053183 Long. 90.421011	25	X= 2,289,678 Y= 503,114	X= 3,570,479 Y= 563,821	Lat. 30.047219 Long. 90.417831	40	X= 2,291,952 Y= 499,104	X= 3,572,753 Y= 559,811	Lat. 30.036142 Long. 90.410746	55	X= 2,293,922 Y= 491,930	X= 3,574,723 Y= 552,638	Lat. 30.016374 Long. 90.404704
11	X= 2,288,673 Y= 505,261	X= 3,569,474 Y= 565,969	Lat. 30.053147 Long. 90.420954	26	X= 2,290,111 Y= 502,558	X= 3,570,911 Y= 563,265	Lat. 30.045681 Long. 90.416478	41	X= 2,292,000 Y= 499,015	X= 3,572,801 Y= 559,722	Lat. 30.035897 Long. 90.410597	56	X= 2,293,878 Y= 491,790	X= 3,574,679 Y= 552,498	Lat. 30.015990 Long. 90.404845
12	X= 2,288,693 Y= 505,246	X= 3,569,494 Y= 565,954	Lat. 30.053105 Long. 90.420891	27	X= 2,290,239 Y= 502,323	X= 3,571,040 Y= 563,031	Lat. 30.045032 Long. 90.416076	42	X= 2,292,095 Y= 498,833	X= 3,572,896 Y= 559,541	Lat. 30.035397 Long. 90.410300	57	X= 2,293,895 Y= 491,785	X= 3,574,696 Y= 552,493	Lat. 30.015976 Long. 90.404793
13	X= 2,288,715 Y= 505,231	X= 3,569,516 Y= 565,939	Lat. 30.053063 Long. 90.420822	28	X= 2,290,462 Y= 501,909	X= 3,571,263 Y= 562,617	Lat. 30.043890 Long. 90.415383	43	X= 2,292,241 Y= 498,559	X= 3,573,042 Y= 559,267	Lat. 30.034639 Long. 90.409847	58	X= 2,294,094 Y= 491,727	X= 3,574,894 Y= 552,435	Lat. 30.015812 Long. 90.404166
14	X= 2,288,733 Y= 505,218	X= 3,569,534 Y= 565,926	Lat. 30.053026 Long. 90.420765	29	X= 2,290,556 Y= 501,737	X= 3,571,357 Y= 562,444	Lat. 30.043413 Long. 90.415090	44	X= 2,292,358 Y= 498,341	X= 3,573,159 Y= 559,048	Lat. 30.034035 Long. 90.409481				
15	X= 2,288,748 Y= 505,206	X= 3,569,549 Y= 565,913	Lat. 30.052992 Long. 90.420717	30	X= 2,290,697 Y= 501,465	X= 3,571,497 Y= 562,173	Lat. 30.042664 Long. 90.414653	45	X= 2,292,459 Y= 498,155	X= 3,573,260 Y= 558,863	Lat. 30.033524 Long. 90.409167				

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PIPELINE TABLE



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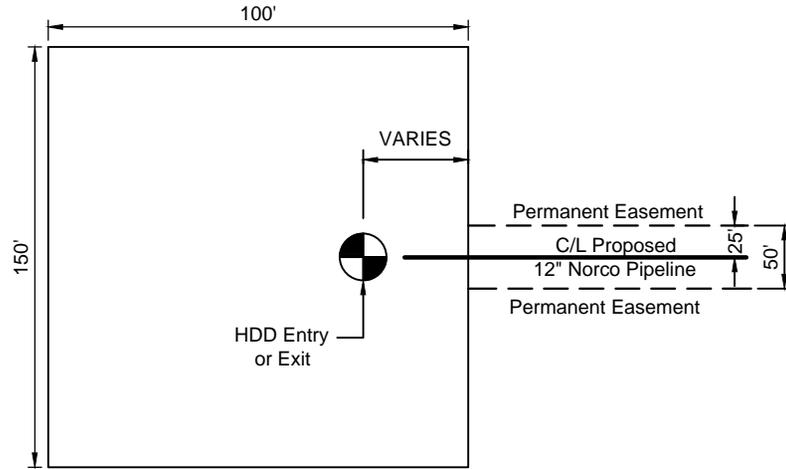
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No. 4

DATE: 4-24-14

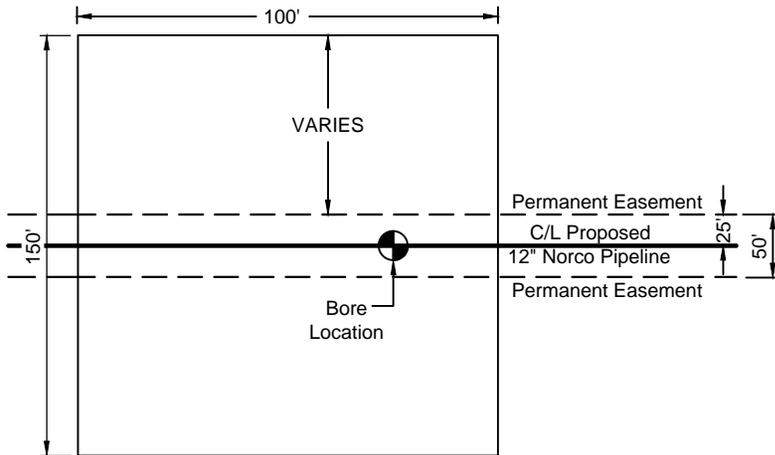
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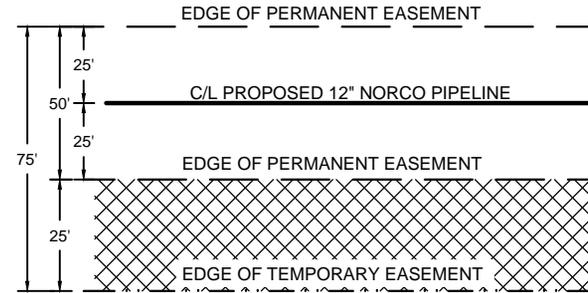
**TYPICAL HDD WORKSITE**

No Scale



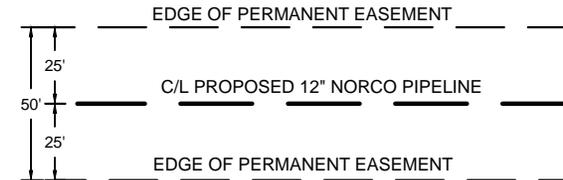
**TYPICAL ROAD BORE WORKSITE**

No Scale



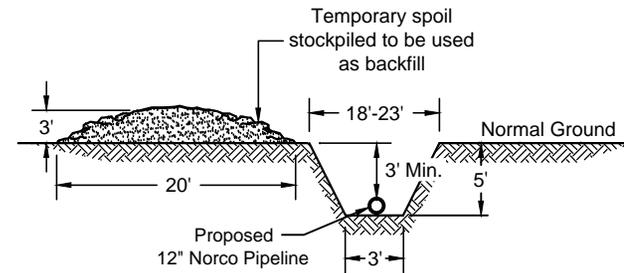
**TYPICAL "A"  
PERMANENT & TEMPORARY EASEMENT**

No Scale



**TYPICAL "B"  
PERMANENT EASEMENT FOR HDD**

No Scale



**TYPICAL PIPELINE TRENCH**

No Scale

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TYPICALS



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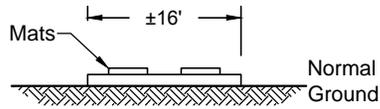
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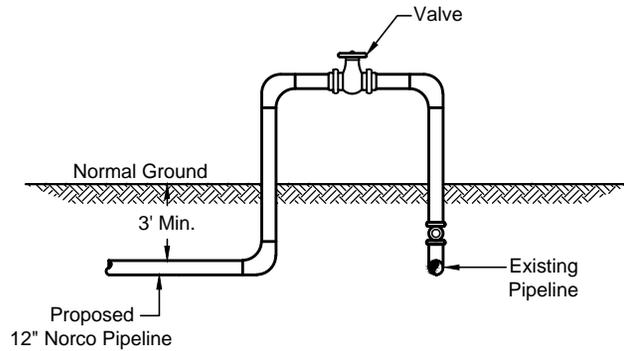
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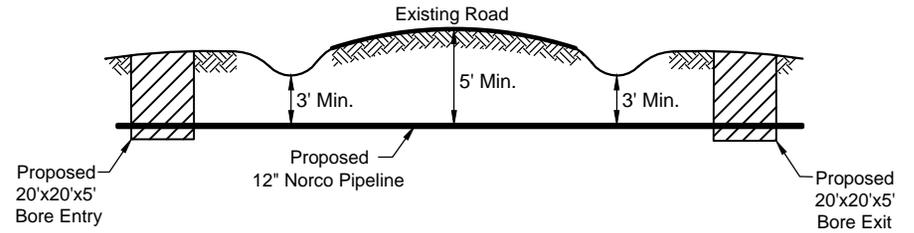
**TYPICAL ACCESS ROAD TO BE BOARDED**

No Scale



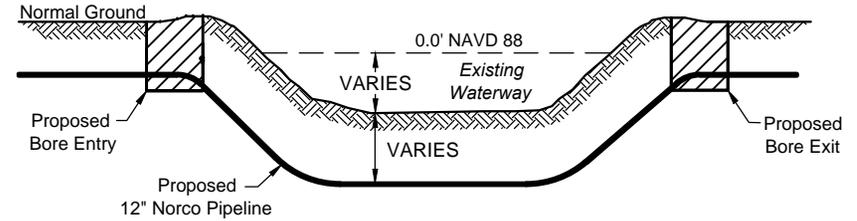
**TYPICAL TIE-IN**

No Scale



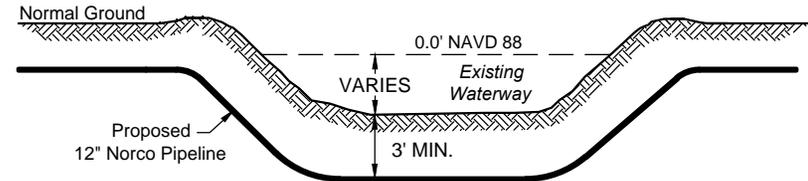
**TYPICAL ROAD CROSSING**

No Scale



**TYPICAL WATERWAY CROSSING WITH HDD SITES**

No Scale



**TYPICAL WATERWAY CROSSING**

No Scale

**ENTERPRISE LIQUIDS PIPELINE LLC**  
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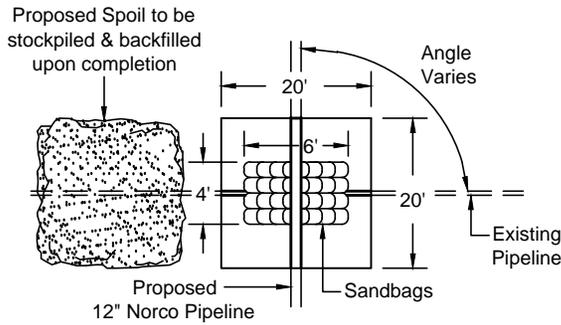
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DATE: 4-24-14

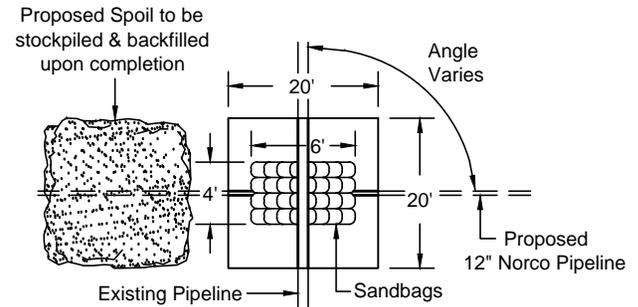
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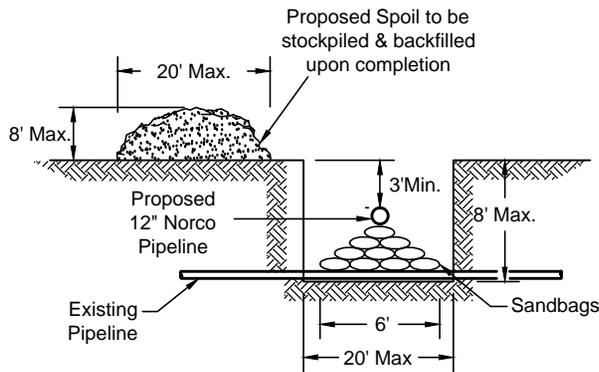
NOTE: A maximum of 119 cubic yards of material will be excavated and replaced as part of the activity shown on this typical drawing and is included in the total volume of material shown on the application.



**PLAN VIEW**

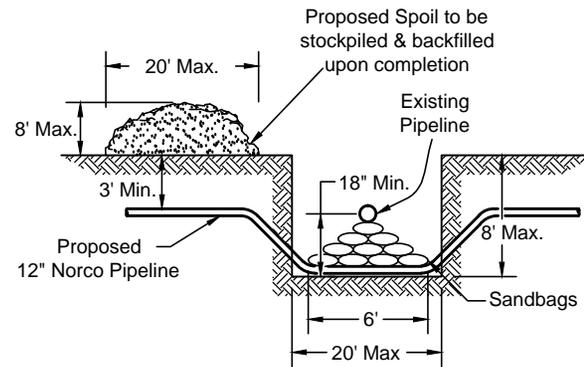


**PLAN VIEW**



**TYPICAL PIPELINE CROSSING**

No Scale



**TYPICAL PIPELINE CROSSING**

No Scale

**ENTERPRISE LIQUIDS PIPELINE LLC**

PROPOSED 12" NORCO PIPELINE & ACCESS ROADS  
 SECTIONS 32,42 & 43, T11S-R8E & SECTIONS 21, 22, 25 & 26, T12S-R8E  
 ST. CHARLES PARISH, LOUISIANA

NOTE:  
 THE CONTENTS OF THESE PLANS  
 ARE INTENDED EXCLUSIVELY FOR  
 THE PURPOSE OF OBTAINING  
 ENVIRONMENTAL COMPLIANCE  
 PERMITS

TYPICALS



Lafayette New Orleans Houston  
 135 Regency Sq. Lafayette, LA 70508  
 Ph. 337-237-2200 Fax. 337-232-3299  
[www.fenstermaker.com](http://www.fenstermaker.com)

DRAWN BY: TNV

PROJ. MGR.: LJB

DATE: 12-20-13

REVISIONS

No. 3

DATE: 3-31-14

REVISED BY: TNV

No. 4

DATE: 4-24-14

REVISED BY: TNV

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NOTES:

1. All structures, facilities, well and pipelines/flowlines occurring in open water areas or in oilfield canals or slips shall be removed within 120 days of abandonment of the facilities for the herein permitted use unless prior written approval to leave such structures in place is received from the Coastal Management Division. This condition does not preclude the necessity for revising the current permit or obtaining a separate Coastal Use Permit, should one be required, for such removal activities.
2. As-built drawings shall be submitted within 30 days of completion of this project to the Louisiana Department of Natural Resources, Coastal Management Division, P.O. Box 44487, Baton Rouge, LA 70804-4487 and to the Louisiana Department of Natural Resources, Office of Conservation, Pipeline Division, P.O. Box 94275, Baton Rouge, La. 70804-4487.
3. In order to ensure the safety of all parties, the permittee shall contact the Louisiana ONE CALL System (1-800-272-3020), a minimum of 48 hours prior to the commencement of any excavation (Digging, Dredging, Jetting, etc.) or demolition activity.
4. Structures will also be marked/lighted in accordance with U.S. Coast Guard regulations.

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**SUMMARY IMPACTS TO WATERS  
OF THE UNITED STATES**

Summary of Impacts	
Impact Type/Duration	Total Project Area/Volume (Approximate)
Temporary Impacts to PEM1 Wetlands	7.61 acres
Permanent Fill of PEM1 Wetlands	0.24 acre
Temporary Conversion of PFO1 Wetlands	6.29 acres
Permanent Conversion of PFO1 Wetlands	10.43 acres
Permanent Fill of PFO1 Wetlands	0.40 acres
Temporary Conversion of PFO2 Wetlands	0.53 acre
Permanent Conversion of PFO2 Wetlands	1.11 acres
Permanent Fill of PFO2 Wetlands	0.05 acres
Temporary Impacts to Ditch/Canals	718.37 linear feet
Excavation Volume	28,071.39 cubic yards
Fill Volume	31,167.29 cubic yards

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