

JOINT PUBLIC NOTICE

July 27, 2020

United States Army
Corps of Engineers
New Orleans District
Attn: Regulatory Branch
7400 Leake Avenue
4313
New Orleans, Louisiana 70118

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

Project Manager: James W. Little, Jr.
(225) 342-3099 / fax: (225) 342-9439
James.little@usace.army.mil
Permit Application Number:
MVN-2008-03027-WII

Project Manager:
Elizabeth Hill
(225) 219-3225 / fax: (225) 219-3156
WQC Application Number:
WQC 200716-02

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).

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 OPERATE AND MAINTAIN A NEW NATURAL GAS SALT DOME STORAGE FACILITY AND ASSOCIATED STRUCTURES IN CAMERON AND CALCASIEU PARISHES

NAME OF APPLICANT: LA Storage, LLC, c/o T. Baker Smith, LLC, Attn: Mr. Brady Trahan, 107 Global Circle, Lafayette, Louisiana 70503.

LOCATION OF WORK: In Cameron and Calcasieu Parish, SWD Well #1 29.979722, -93.380278; SWD Well #2 29.975, -93.381389; SWD #3 29.968889, -93.380278; SWD #4 29.968611, -93.380833; Cavern Well #4 30.000556, -93.416111; 16" Brine Pipeline POB 29.983056, -93.411389 POE 29.968611, -93.380833; 36" Natural Gas Pipeline POB 30.000556, -93.4125 POE 30.056944, -93.372222, located off of Black Lake Road, west of Hackberry, Louisiana, as shown on the attached vicinity map.

CHARACTER OF WORK: Construct, own, operate and maintain a new natural gas salt dome storage facility and associated compression and pipeline facilities, to include three existing cavern wells and one proposed cavern well, a proposed 36" natural gas pipeline to run five miles from the storage facility to a tie-in with an existing 42" pipeline, and a 16" brine disposal pipeline to run four miles from the storage facility to four proposed saltwater disposal wells. Approximately 242,022 cubic yards of native material will be excavated for access roads, pipeline burial, a barge access channel, well pads and other site improvements. An additional 1,742 cubic yards of concrete, 31,890 cubic yards of crushed stone and 10 cubic yards of pipeline bracing material will also be required. Approximately 7.4 acres of jurisdictional wetlands, 134.3 acres of non-wet area and 52.2 acres of non-vegetated waterbottoms would be impacted by project implementation. The applicant proposes to purchase compensatory

mitigation acres at CEMVN approved mitigation banks in the area.

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, pre-historical, 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.

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 July 23, 2020 and it has been determined that the proposed project "May affect, Not likely to adversely Affect" the West Indian Manatee (*Trichechus manatus*). The Standard Manatee Conditions for in-water activities shall be included as permit conditions if a Department of the Army permit is issued.

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 or alteration of 52.2 acres of EFH utilized by various life stages of red drum and penaeid shrimp. Our initial determination is that the proposed action would not have a substantial adverse impact on EFH or federally managed fisheries in the Gulf of Mexico. Our final determination relative to project impacts and the need for mitigation measures is subject to review by and coordination with the National Marine Fisheries Service.

If the proposed work involves deposits of dredged or fill material into navigable waters, the evaluation of the probable impacts will include the application of guidelines established by the Administrator of the Environmental Protection Agency. Also, a certification that the proposed activity will not violate applicable water quality standards will be required from the Department of Environmental Quality, before a permit is issued.

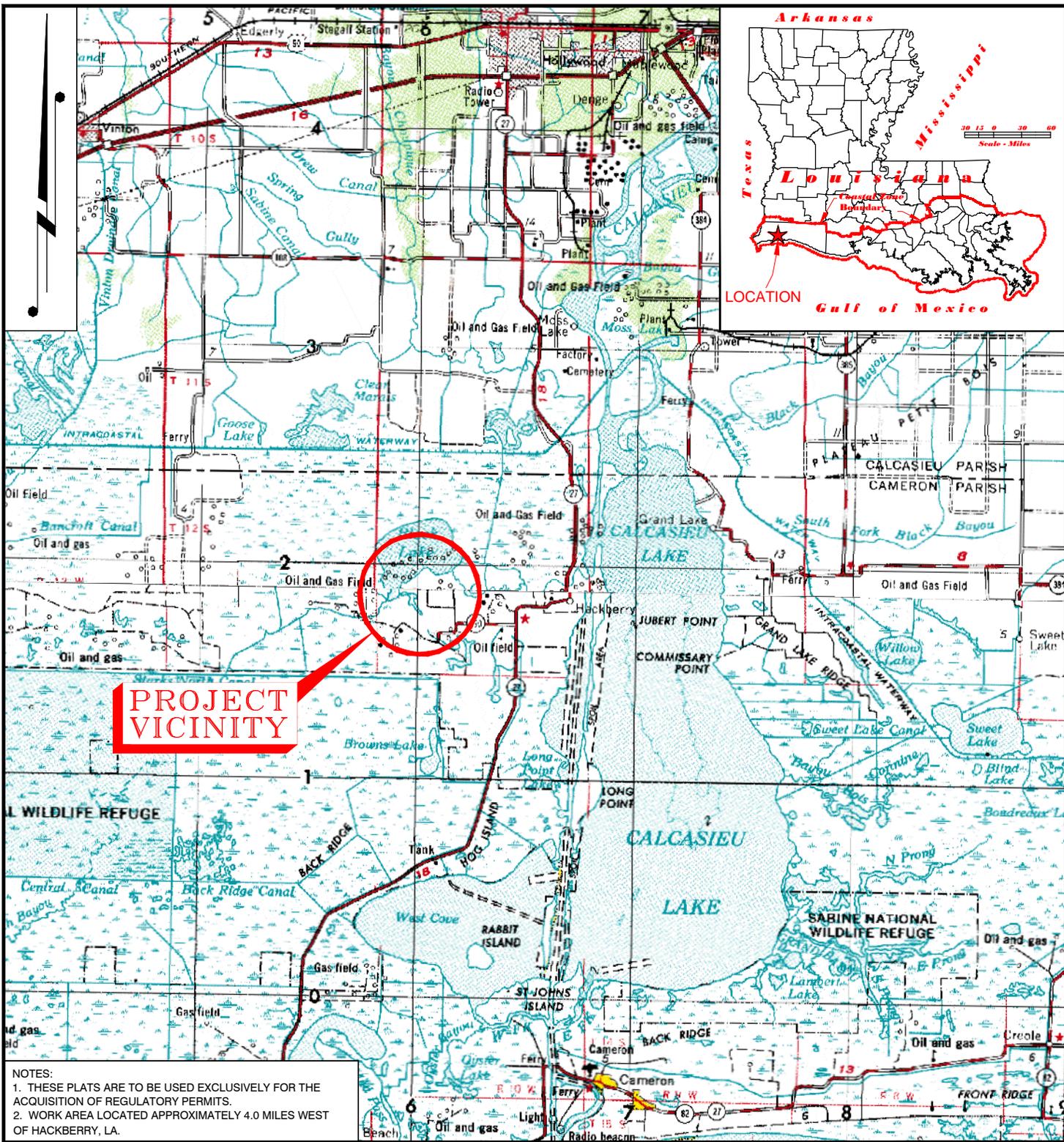
Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for public hearings shall state, with particularity, the reasons for holding a public hearing.

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.

For: Darrell S. Barbara
Chief, Western Evaluation Section
Regulatory Branch

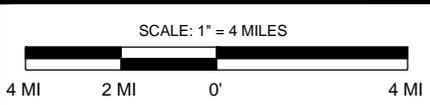
Enclosure



PROJECT VICINITY

NOTES:
 1. THESE PLATS ARE TO BE USED EXCLUSIVELY FOR THE ACQUISITION OF REGULATORY PERMITS.
 2. WORK AREA LOCATED APPROXIMATELY 4.0 MILES WEST OF HACKBERRY, LA.

DRAWN BY:	RLV	APPROVED BY:	JJR
DATE:	06/6/14	JOB NO.:	2014.0733
DRAWING NAME:	140733_C1_REV8.DWG		
SHEET NO.:	1	OF	24
PROJECTION: LOUISIANA SOUTH GEO. DATUM: NAD 83 VERT. DATUM: NAVD88 GRID UNITS: US SURVEY FEET			

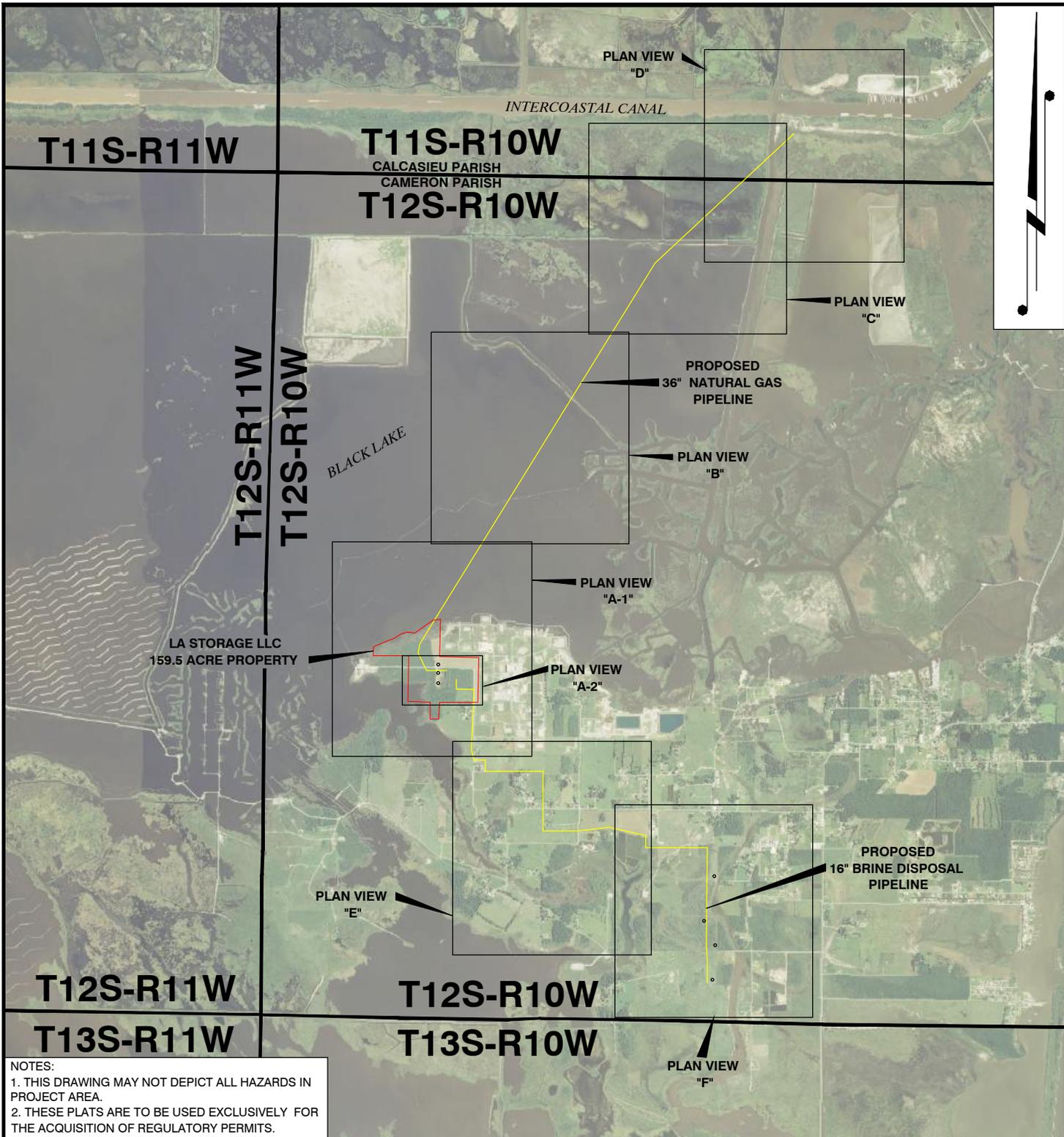


VICINITY MAP

LA STORAGE LLC
 PROPOSED NEW SALT DOME GAS STORAGE FACILITY
 LOCATED IN SECTIONS 20, 27, 28, 29 & 34
 T11S-R10W & T12S-R10W
 CALCASIEU & CAMERON PARISH, LOUISIANA



REV. NO.:	8	REV. DATE:	05/29/2015	REV. BY.:	JJR
REVISION DESCRIPTION: REVISED WATER WELLS 1A & 1B ON SHEETS 3 & 4.					



NOTES:
 1. THIS DRAWING MAY NOT DEPICT ALL HAZARDS IN PROJECT AREA.
 2. THESE PLATS ARE TO BE USED EXCLUSIVELY FOR THE ACQUISITION OF REGULATORY PERMITS.

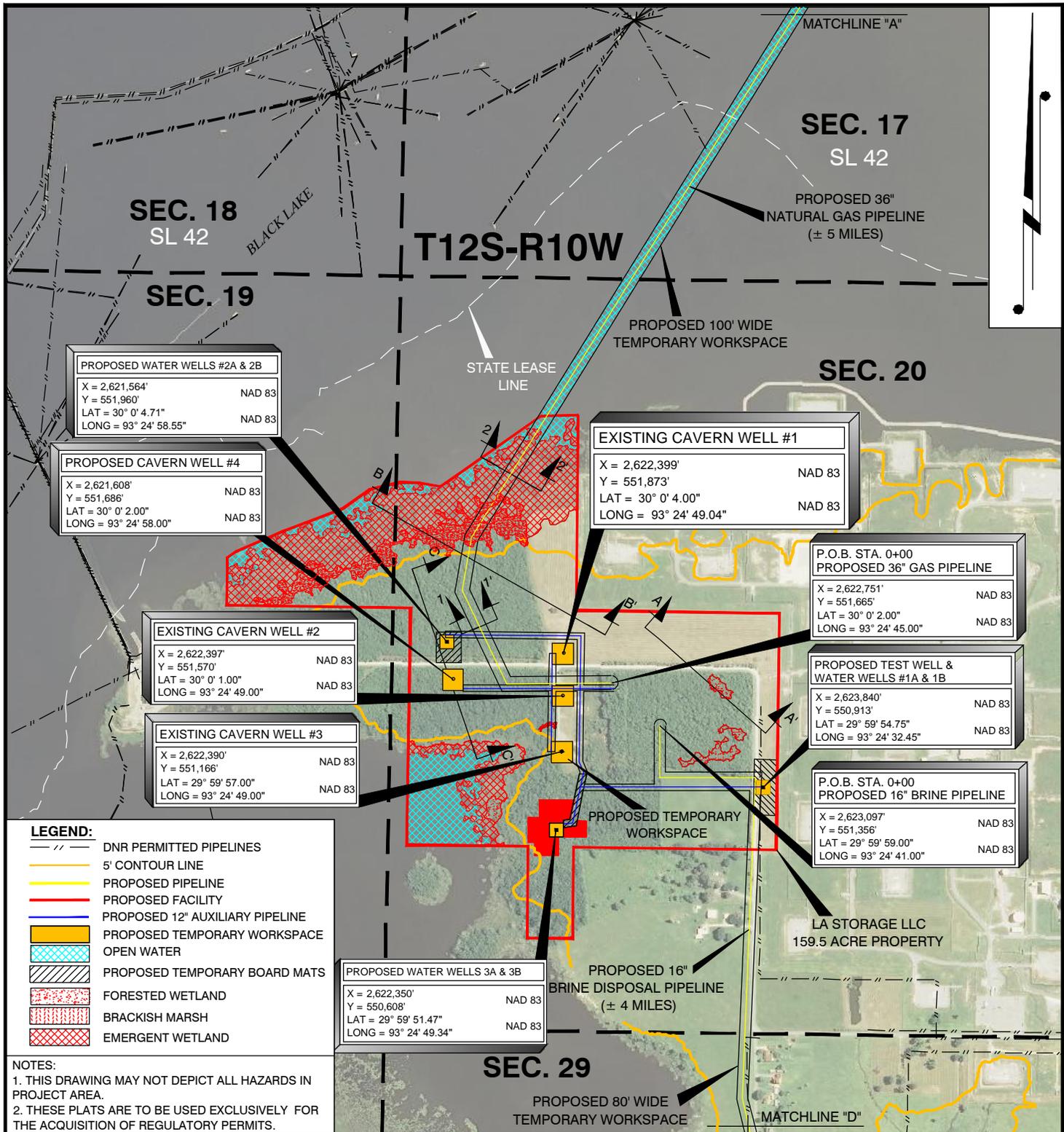
DRAWN BY:	RLV	APPROVED BY:	JJR
DATE:	06/06/14	JOB NO:	2014.0733
DRAWING NAME:	140733_C2_REV8.DWG		
SHEET NO:	2	OF	24
PROJECTION:	LOUISIANA SOUTH		
GEO. DATUM:	NAD83 VERT. DATUM: NAVD88		
GRID UNITS:	US SURVEY FEET		



AREA MAP

LA STORAGE LLC
 PROPOSED NEW SALT DOME GAS STORAGE FACILITY
 LOCATED IN SECTIONS 20, 27, 28, 29, & 34
 T11S-R10W & T12S-R10W
 CALCASIEU & CAMERON PARISHES, LOUISIANA

REV. NO:	8	REV. DATE:	05/29/2015	REV. BY:	JJR
REVISION DESCRIPTION: REVISED WATER WELLS 1A & 1B ON SHEETS 3 & 4.					



PROPOSED WATER WELLS #2A & 2B

X = 2,621,564' NAD 83
 Y = 551,960' NAD 83
 LAT = 30° 0' 4.71" NAD 83
 LONG = 93° 24' 58.55" NAD 83

PROPOSED CAVERN WELL #4

X = 2,621,608' NAD 83
 Y = 551,688' NAD 83
 LAT = 30° 0' 2.00" NAD 83
 LONG = 93° 24' 58.00" NAD 83

EXISTING CAVERN WELL #2

X = 2,622,397' NAD 83
 Y = 551,570' NAD 83
 LAT = 30° 0' 1.00" NAD 83
 LONG = 93° 24' 49.00" NAD 83

EXISTING CAVERN WELL #3

X = 2,622,390' NAD 83
 Y = 551,166' NAD 83
 LAT = 29° 59' 57.00" NAD 83
 LONG = 93° 24' 49.00" NAD 83

EXISTING CAVERN WELL #1

X = 2,622,399' NAD 83
 Y = 551,873' NAD 83
 LAT = 30° 0' 4.00" NAD 83
 LONG = 93° 24' 49.04" NAD 83

**P.O.B. STA. 0+00
 PROPOSED 36" GAS PIPELINE**

X = 2,622,751' NAD 83
 Y = 551,665' NAD 83
 LAT = 30° 0' 2.00" NAD 83
 LONG = 93° 24' 45.00" NAD 83

**PROPOSED TEST WELL &
 WATER WELLS #1A & 1B**

X = 2,623,840' NAD 83
 Y = 550,913' NAD 83
 LAT = 29° 59' 54.75" NAD 83
 LONG = 93° 24' 32.45" NAD 83

**P.O.B. STA. 0+00
 PROPOSED 16" BRINE PIPELINE**

X = 2,623,097' NAD 83
 Y = 551,356' NAD 83
 LAT = 29° 59' 59.00" NAD 83
 LONG = 93° 24' 41.00" NAD 83

PROPOSED WATER WELLS 3A & 3B

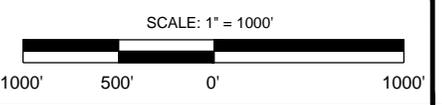
X = 2,622,350' NAD 83
 Y = 550,608' NAD 83
 LAT = 29° 59' 51.47" NAD 83
 LONG = 93° 24' 49.34" NAD 83

- LEGEND:**
- DNR PERMITTED PIPELINES
 - 5' CONTOUR LINE
 - PROPOSED PIPELINE
 - PROPOSED FACILITY
 - PROPOSED 12" AUXILIARY PIPELINE
 - PROPOSED TEMPORARY WORKSPACE
 - OPEN WATER
 - PROPOSED TEMPORARY BOARD MATS
 - FORESTED WETLAND
 - BRACKISH MARSH
 - EMERGENT WETLAND

NOTES:

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DRAWN BY:	RLV	APPROVED BY:	JJR
DATE:	06/06/14	JOB NO:	2014.0733
DRAWING NAME:	140733_C3_REV8.DWG		
SHEET NO:	3	OF	24
PROJECTION:	LOUISIANA SOUTH		
GEO. DATUM:	NAD83 VERT. DATUM: NAVD88		
GRID UNITS:	US SURVEY FEET		



PLAN VIEW "A-1"

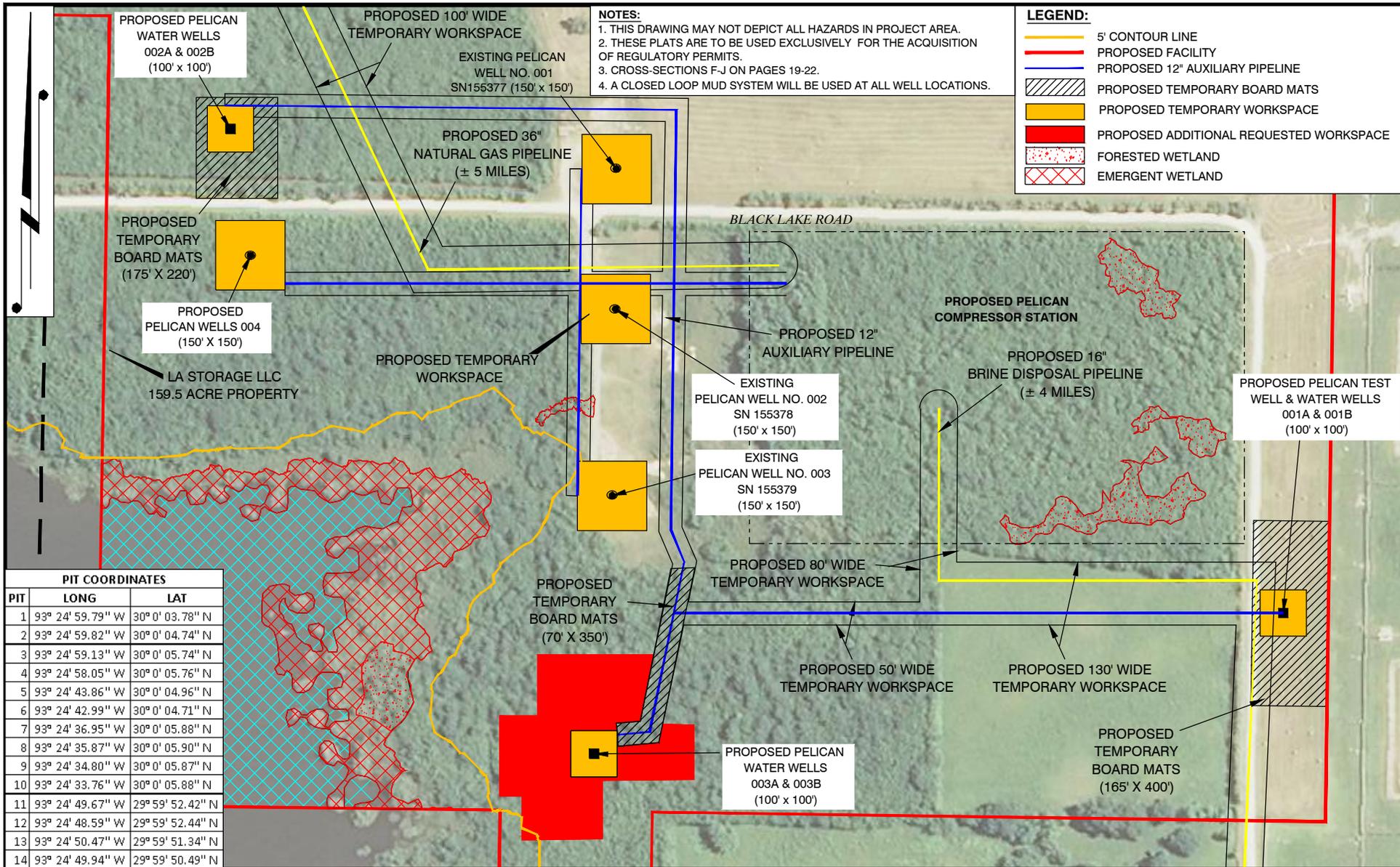
LA STORAGE LLC
 PROPOSED NEW SALT DOME GAS STORAGE FACILITY
 LOCATED IN SECTIONS 20, 27, 28, 29, & 34
 T11S-R10W & T12S-R10W
 CALCASIEU & CAMERON PARISHES, LOUISIANA

T. BAKER SMITH
 SOLUTIONS START HERE
 107 Global Circle, Lafayette, LA 70503
 (337)735-2800 - tbsmith.com

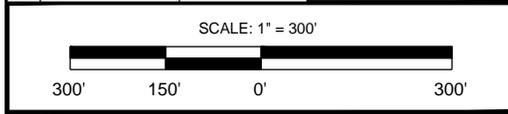
REV. NO:	8	REV. DATE:	05/29/2015	REV. BY:	JJR
REVISION DESCRIPTION: REVISED POSITION OF WATER WELLS 1A & 1B.					

6/3/2015 - P:\Y-2014\2014.0733\DWG\COE\REV 8\140733_C3_REV8.DWG

6/3/2015 - C:\USERS\JUSTIN.RODRIGUE\DESKTOP1\40733_C3-A_REV8.DWG



PIT COORDINATES		
PIT	LONG	LAT
1	93° 24' 59.79" W	30° 0' 03.78" N
2	93° 24' 59.82" W	30° 0' 04.74" N
3	93° 24' 59.13" W	30° 0' 05.74" N
4	93° 24' 58.05" W	30° 0' 05.76" N
5	93° 24' 43.86" W	30° 0' 04.96" N
6	93° 24' 42.99" W	30° 0' 04.71" N
7	93° 24' 36.95" W	30° 0' 05.88" N
8	93° 24' 35.87" W	30° 0' 05.90" N
9	93° 24' 34.80" W	30° 0' 05.87" N
10	93° 24' 33.76" W	30° 0' 05.88" N
11	93° 24' 49.67" W	29° 59' 52.42" N
12	93° 24' 48.59" W	29° 59' 52.44" N
13	93° 24' 50.47" W	29° 59' 51.34" N
14	93° 24' 49.94" W	29° 59' 50.49" N



T. BAKER SMITH SOLUTIONS START HERE
 107 Global Circle, Lafayette, LA 70363
 (937)736-2800 - tberm@tbs.com

REV. NO: 8 | REV. DATE: 05/29/2015 | REV. BY: JJR

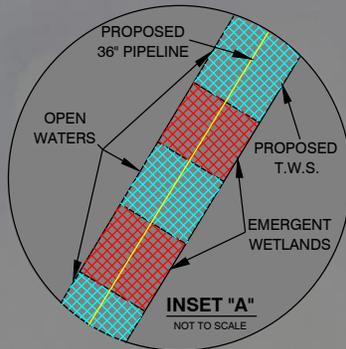
DRAWN BY: RLV	APPROVED BY: JJR
DATE: 08/04/14	JOB NO: 2014.0733
DRAWING NAME: 140733_C3-A_REV8.DWG	
SHEET NO: 4	OF 24
PROJECTION: LOUISIANA SOUTH GEO. DATUM: NAD83 VERT. DATUM: NAVD88 GRID UNITS: US SURVEY FEET	
REVISION DESCRIPTION: REVISED POSITION OF WATER WELLS 1A & 1B.	

PLAN VIEW "A-2"

LA STORAGE LLC
 PROPOSED NEW SALT DOME GAS STORAGE FACILITY
 LOCATED IN SECTIONS 20, 27, 28, 29 & 34
 T11S-R10W & T12S-R10W
 CALCASIEU & CAMERON PARISHES, LOUISIANA

T12S-R10W

MATCHLINE "B"



PROPOSED 36"
NATURAL GAS PIPELINE
(±5 MILES)

BLACK LAKE

PROPOSED 100' WIDE
TEMPORARY WORKSPACE

SEC. 8

SEC. 9

SEC. 17

SEC. 16

SL 42

STATE LEASE
LINE

LEGEND:

- DNR PERMITTED PIPELINES
- PROPOSED PIPELINE
- OPEN WATER
- EMERGENT WETLAND

NOTES:

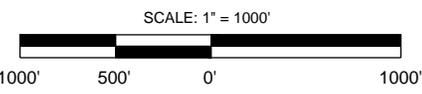
1. THIS DRAWING MAY NOT DEPICT ALL HAZARDS IN PROJECT AREA.
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MATCHLINE "A"

PLAN VIEW "B"

LA STORAGE LLC
PROPOSED NEW SALT DOME GAS STORAGE FACILITY
 LOCATED IN SECTIONS 20, 27, 28, 29, & 34
 T11S-R10W & T12S-R10W
 CALCASIEU & CAMERON PARISHES, LOUISIANA

DRAWN BY:	RLV	APPROVED BY:	JJR
DATE:	06/06/14	JOB NO:	2014.0733
DRAWING NAME:	140733_C3_REV8.DWG		
SHEET NO:	5	OF	24
PROJECTION:	LOUISIANA SOUTH		
GEO. DATUM:	NAD83 VERT. DATUM: NAVD88		
GRID UNITS:	US SURVEY FEET		



REV. NO:	8	REV. DATE:	05/29/2015	REV. BY:	JJR
REVISION DESCRIPTION: REVISED POSITION OF WATER WELLS 1A & 1B.					

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SEC. 33

T11S-R10W
CALCASIEU PARISH

MATCHLINE "C"

CAMERON PARISH
T12S-R10W

SEC. 4

PROPOSED
LIMIT OF PULL
BACK AREA
(±2,724')

PROPOSED TEMPORARY
WORKSPACE TO BE
MATTED
(325' X 250')
(±2.14 ACRES)

PROPOSED 100' WIDE
TEMPORARY WORKSPACE

SALT DITCH

SEC. 3

PROPOSED 100' WIDE
TEMPORARY WORKSPACE

PROPOSED 36"
NATURAL GAS PIPELINE
(±5 MILES)

SEC. 9

SEC. 10

MATCHLINE "B"

LEGEND:

-  DNR PERMITTED PIPELINES
-  PROPOSED PIPELINE
-  OPEN WATER
-  EMERGENT WETLAND

NOTES:

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DRAWN BY: RLV APPROVED BY: JJR

PLAN VIEW "C"

DATE: 06/06/14 JOB NO: 2014.0733

LA STORAGE LLC
PROPOSED NEW SALT DOME GAS STORAGE FACILITY
LOCATED IN SECTIONS 20, 27, 28, 29, & 34
T11S-R10W & T12S-R10W
CALCASIEU & CAMERON PARISHES, LOUISIANA

DRAWING NAME: 140733_C3_REV8.DWG

SHEET NO: 6 OF 24

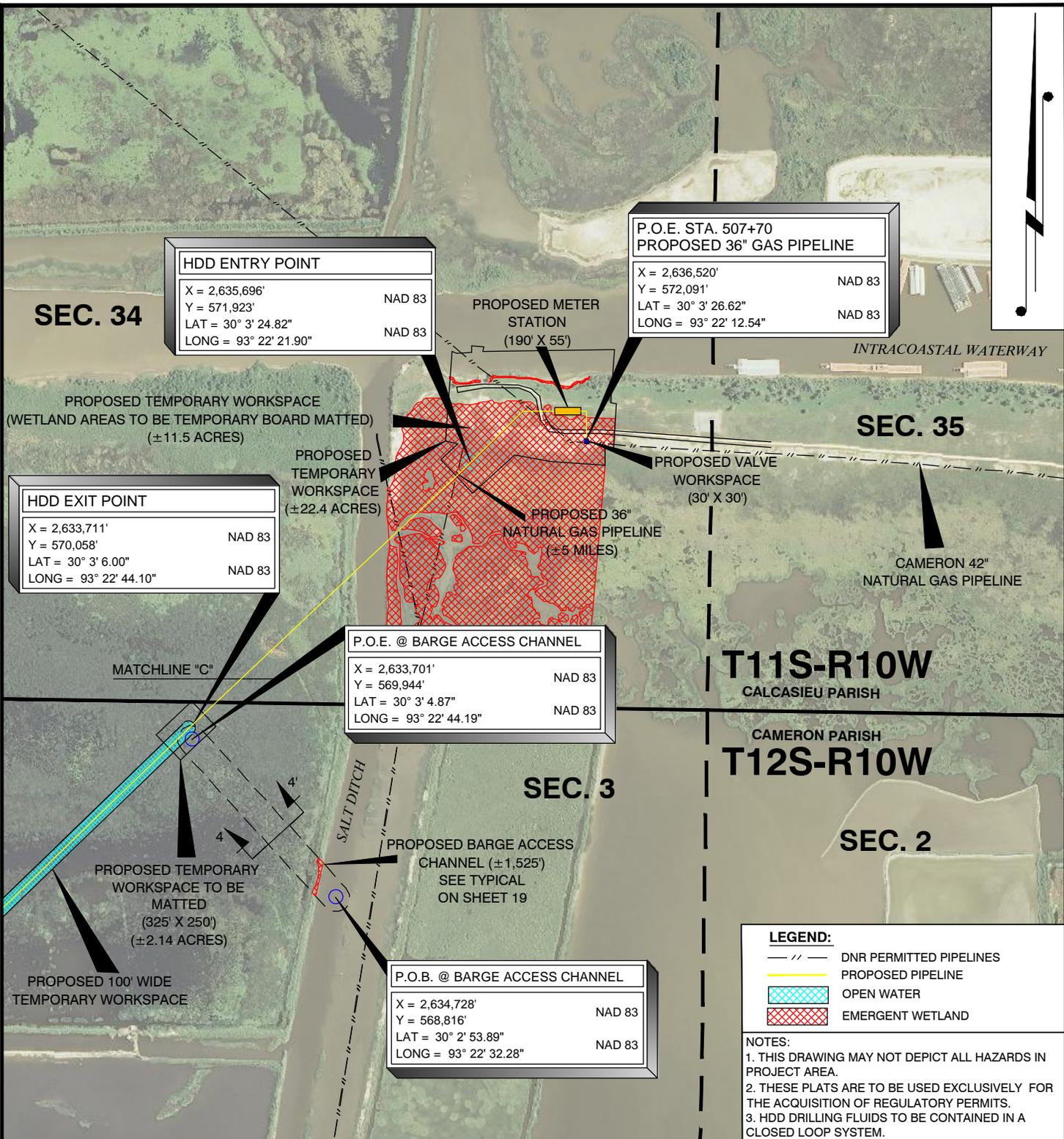
PROJECTION: LOUISIANA SOUTH
GEO. DATUM: NAD83 | VERT. DATUM: NAVD88
GRID UNITS: US SURVEY FEET

SCALE: 1" = 1000'



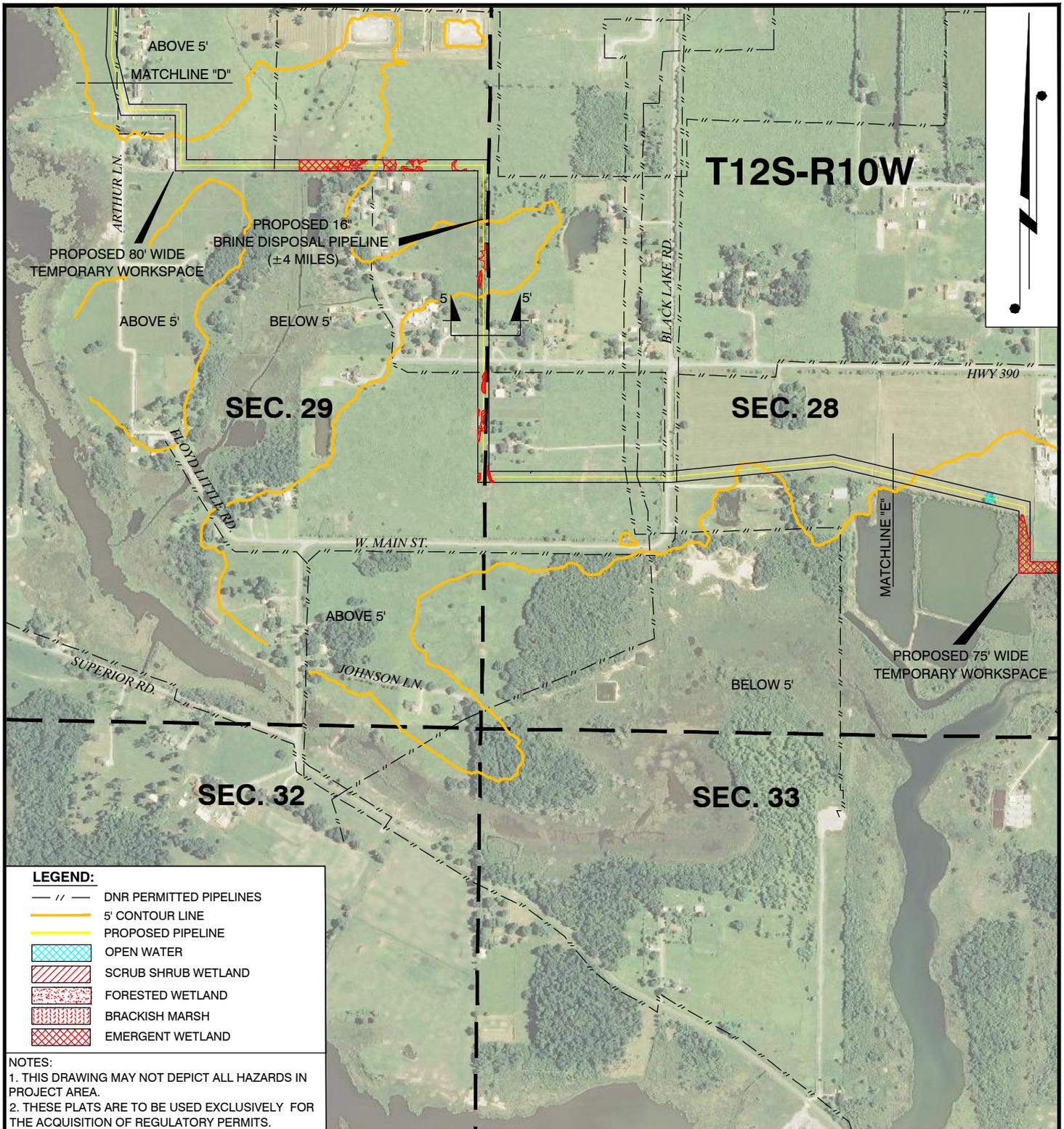
REV. NO: 8 REV. DATE: 05/29/2015 REV. BY: JJR

REVISION DESCRIPTION:
REVISED POSITION OF WATER WELLS 1A & 1B.



DRAWN BY: RLV		APPROVED BY: JJR		PLAN VIEW "D" LA STORAGE LLC PROPOSED NEW SALT DOME GAS STORAGE FACILITY LOCATED IN SECTIONS 20, 27, 28, 29, & 34 T11S-R10W & T12S-R10W CALCASIEU & CAMERON PARISHES, LOUISIANA	
DATE: 06/06/14		JOB NO: 2014.0733			
DRAWING NAME: 140733_C3_REV8.DWG					
SHEET NO: 7		OF 24			
PROJECTION: LOUISIANA SOUTH GEO. DATUM: NAD83 VERT. DATUM: NAVD88 GRID UNITS: US SURVEY FEET					
SCALE: 1" = 1000' 			T. BAKER SMITH SOLUTIONS START HERE 107 Global Circle, Lafayette, LA 70503 (337)735-2800 - tbsmith.com		REV. NO: 8 REV. DATE: 05/29/2015 REV. BY: JJR
REVISION DESCRIPTION: REVISED POSITION OF WATER WELLS 1A & 1B.					

6/3/2015 - P:\Y-2014\2014.0733\DWG\COE\REV 8\140733_C3_REV8.DWG

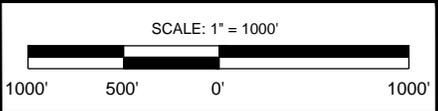


LEGEND:

- DNR PERMITTED PIPELINES
- 5' CONTOUR LINE
- PROPOSED PIPELINE
- OPEN WATER
- SCRUB SHRUB WETLAND
- FORESTED WETLAND
- BRACKISH MARSH
- EMERGENT WETLAND

NOTES:
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DATE:	06/06/14	JOB NO:	2014.0733
DRAWING NAME:	140733_C3_REV8.DWG		
SHEET NO:	8	OF	24
PROJECTION:	LOUISIANA SOUTH		
GEO. DATUM:	NAD83 VERT. DATUM: NAVD88		
GRID UNITS:	US SURVEY FEET		



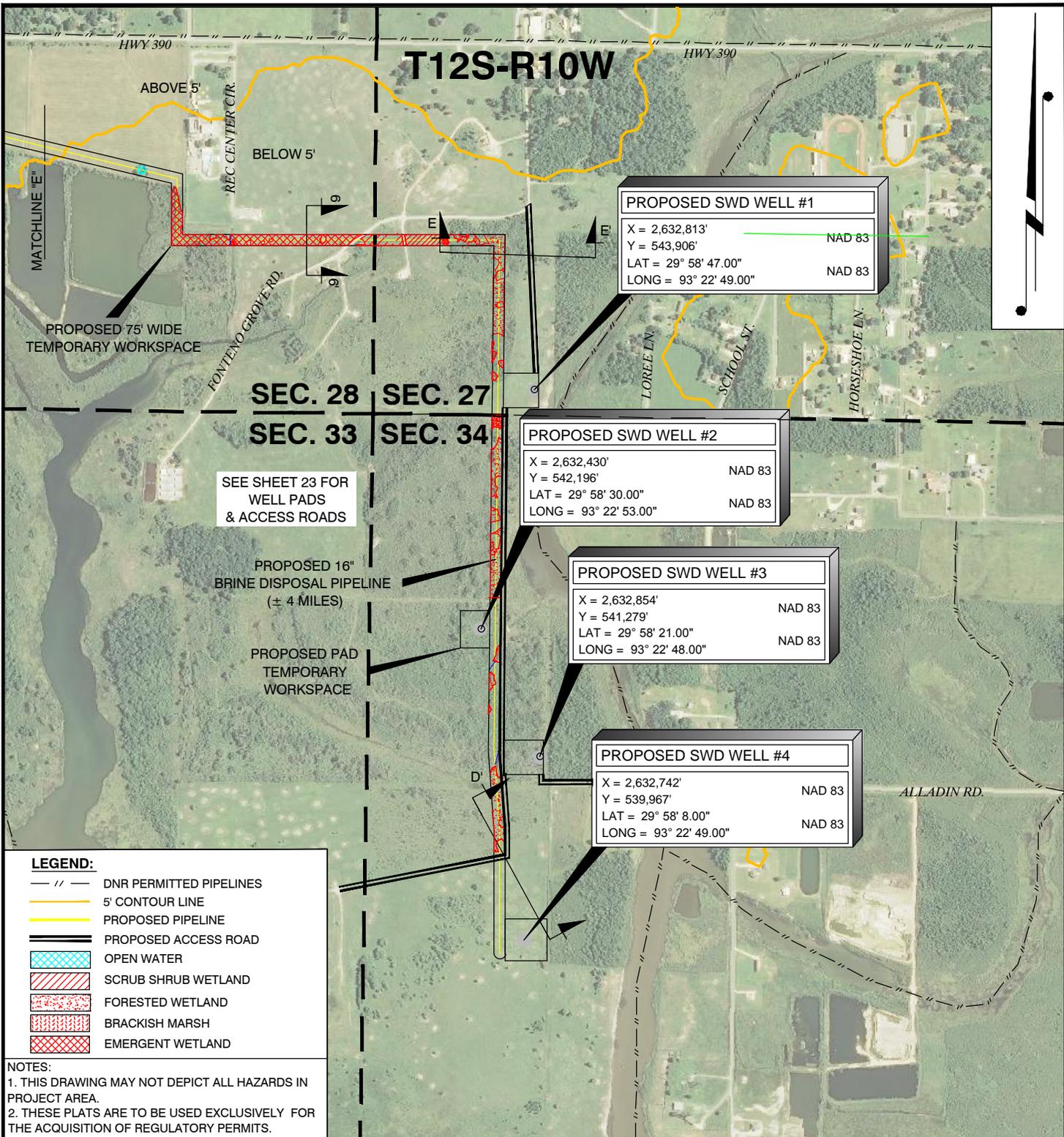
PLAN VIEW "E"

LA STORAGE LLC
 PROPOSED NEW SALT DOME GAS STORAGE FACILITY
 LOCATED IN SECTIONS 20, 27, 28, 29, & 34
 T11S-R10W & T12S-R10W
 CALCASIEU & CAMERON PARISHES, LOUISIANA

REV. NO:	8	REV. DATE:	05/29/2015	REV. BY:	JJR
REVISION DESCRIPTION: REVISED POSITION OF WATER WELLS 1A & 1B.					

6/3/2015 - P:\Y-2014\2014.0733\DWG\COE\REV 8\140733_C3_REV8.DWG

T12S-R10W



SEC. 28 SEC. 27
 SEC. 33 SEC. 34

SEE SHEET 23 FOR WELL PADS & ACCESS ROADS

PROPOSED 16" BRINE DISPOSAL PIPELINE (± 4 MILES)

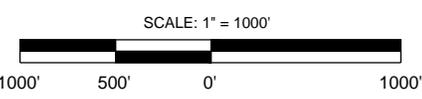
PROPOSED PAD TEMPORARY WORKSPACE

PROPOSED 75' WIDE TEMPORARY WORKSPACE

PLAN VIEW "F"

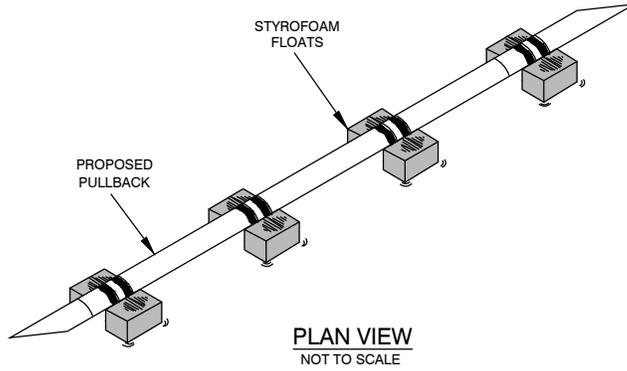
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DRAWN BY:	RLV	APPROVED BY:	JJR
DATE:	06/06/14	JOB NO:	2014.0733
DRAWING NAME:	140733_C3_REV8.DWG		
SHEET NO:	9	OF	24
PROJECTION:	LOUISIANA SOUTH		
GEO. DATUM:	NAD83 VERT. DATUM: NAVD88		
GRID UNITS:	US SURVEY FEET		

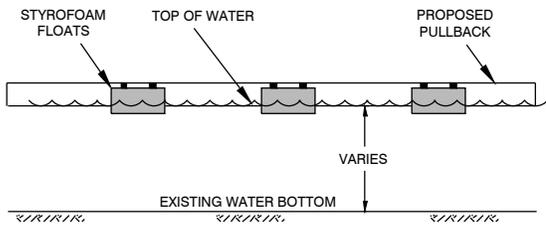


REV. NO:	8	REV. DATE:	05/29/2015	REV. BY:	JJR
REVISION DESCRIPTION: REVISED POSITION OF WATER WELLS 1A & 1B.					

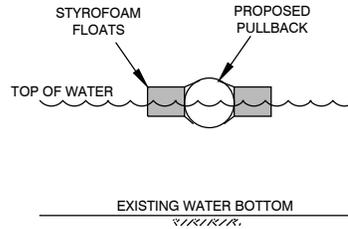
6/3/2015 - P:\Y-2014\2014.0733\DWG\COE\REV 8\140733_C3_REV8.DWG



PLAN VIEW
NOT TO SCALE

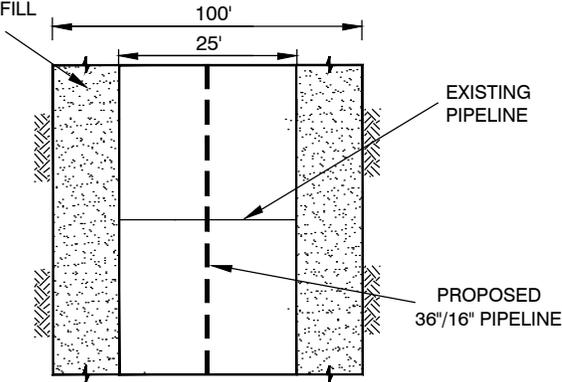


TYPICAL PULLBACK PROFILE
NOT TO SCALE

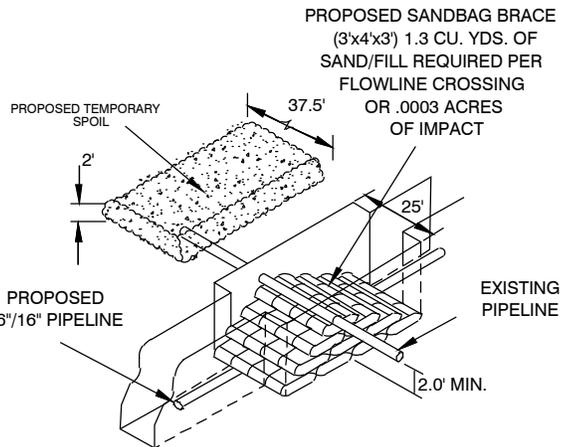


TYPICAL PULLBACK CROSS-SECTION
NOT TO SCALE

PROPOSED TEMPORARY SPOIL STOCKPILED TO BE USED AS BACKFILL



PLAN VIEW OF TYPICAL TEMPORARY WORKSPACE FOR PIPELINE CROSSING
NOT TO SCALE



TYPICAL PIPELINE CROSSING
NOT TO SCALE

- NOTES:
1. PROPOSED SANDBAG BRACE (3'x4'x3') 1.3 CU. YDS. OF SAND/FILL REQUIRED PER FLOWLINE CROSSING OR .0003 ACRES OF IMPACT. 2. TEMPORARY SPOIL TO BE USED AS BACKFILL UPON COMPLETION OF PROJECT.
 3. THESE PLATS ARE TO BE USED EXCLUSIVELY FOR THE ACQUISITION OF REGULATORY PERMITS.

TYPICALS

LA STORAGE LLC
PROPOSED NEW SALT DOME GAS STORAGE FACILITY
 LOCATED IN SECTIONS 20, 27, 28, 29 & 34
 T11S-R10W & T12S-R10W
 CALCASIEU & CAMERON PARISH, LOUISIANA

DRAWN BY:	RLV	APPROVED BY:	JJR
DATE:	06/6/14	JOB NO:	2014.0733
DRAWING NAME:	140733_C4_REV8.DWG		
SHEET NO:	10	OF	24
PROJECTION:	LOUISIANA SOUTH		
GEO. DATUM:	NAD 83 VERT. DATUM: NAVD88		
GRID UNITS:	US SURVEY FEET		

NOT TO SCALE

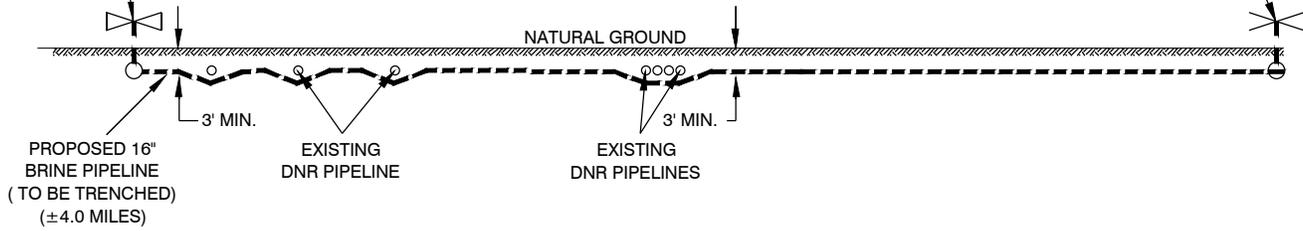


REV. NO:	8	REV. DATE:	05/29/2015	REV. BY:	JJR
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REVISION DESCRIPTION:
REVISED WATER WELLS 1A & 1B ON SHEETS 3 & 4.

P.O.B.
PROPOSED 16" BRINE
PIPELINE @ TIE-IN TO PROPOSED
LA STORAGE LLC

P.O.E.
PROPOSED 16" BRINE
PIPELINE @ SWD WELL #4

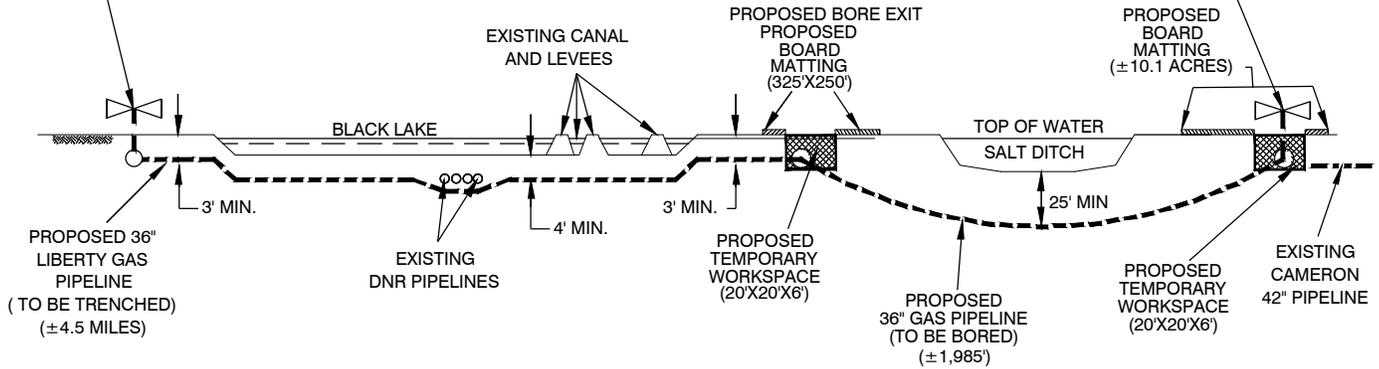


PIPELINE PROFILE OF PROPOSED 16" BRINE PIPELINE

NOT TO SCALE

P.O.B.
PROPOSED 36" LIBERTY GAS
PIPELINE @ TIE-IN TO PROPOSED
LA STORAGE LLC

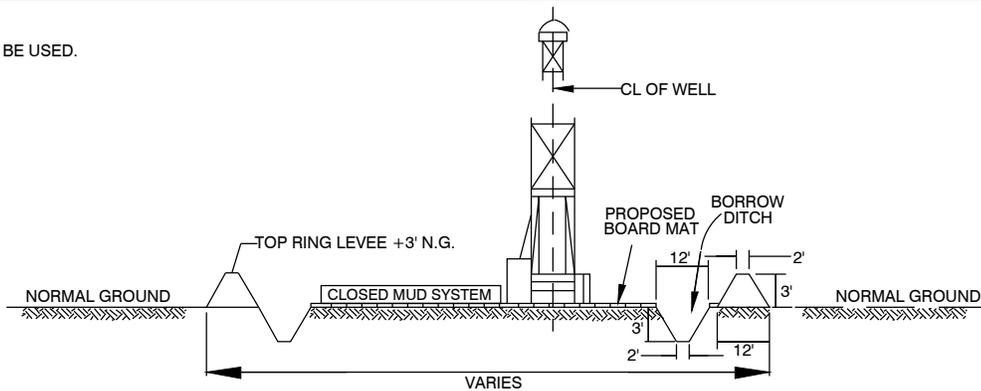
P.O.E.
PROPOSED BORE ENTRY
PIPELINE @ TIE-IN TO EXISTING
CAMERON 42" PIPELINE @
PROPOSED TEMPORARY WORKSPACE



PIPELINE PROFILE OF PROPOSED 36" GAS PIPELINE

NOT TO SCALE

NOTE:
1. CLOSED MUD SYSTEM WILL BE USED.



TYPICAL CROSS-SECTION OF DRILLSITE

PLAN VIEW

NOT TO SCALE

NOTE: 1. THESE PLATS ARE TO BE USED EXCLUSIVELY FOR THE ACQUISITION OF REGULATORY PERMITS.	
DRAWN BY: RLV	APPROVED BY: JJR
DATE: 06/6/14	JOB NO: 2014.0733
DRAWING NAME: 140733_C4_REV8.DWG	
SHEET NO: 11	OF 24
PROJECTION: LOUISIANA SOUTH GEO. DATUM: NAD 83 VERT. DATUM: NAVD88 GRID UNITS: US SURVEY FEET	

PROFILES & TYPICAL

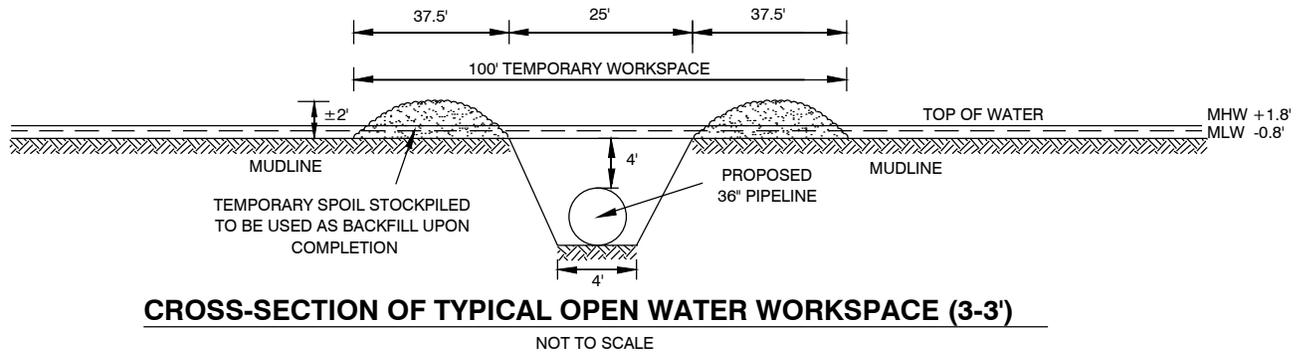
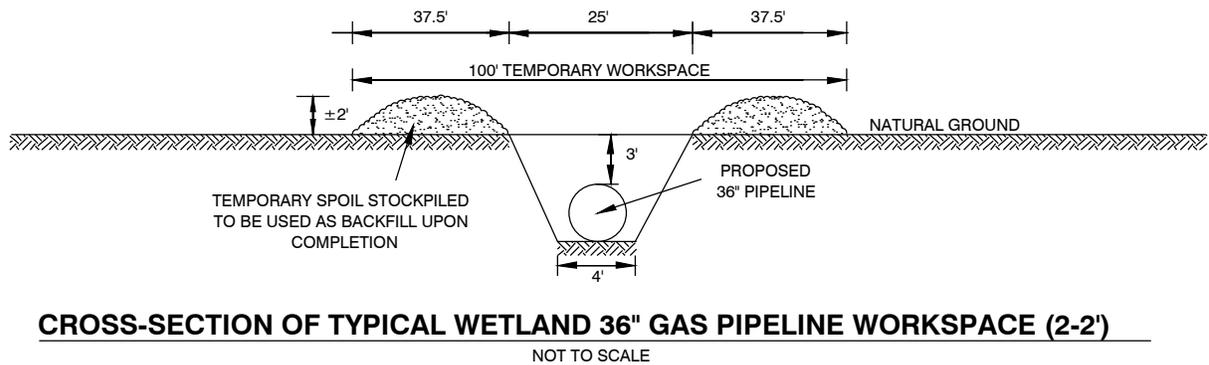
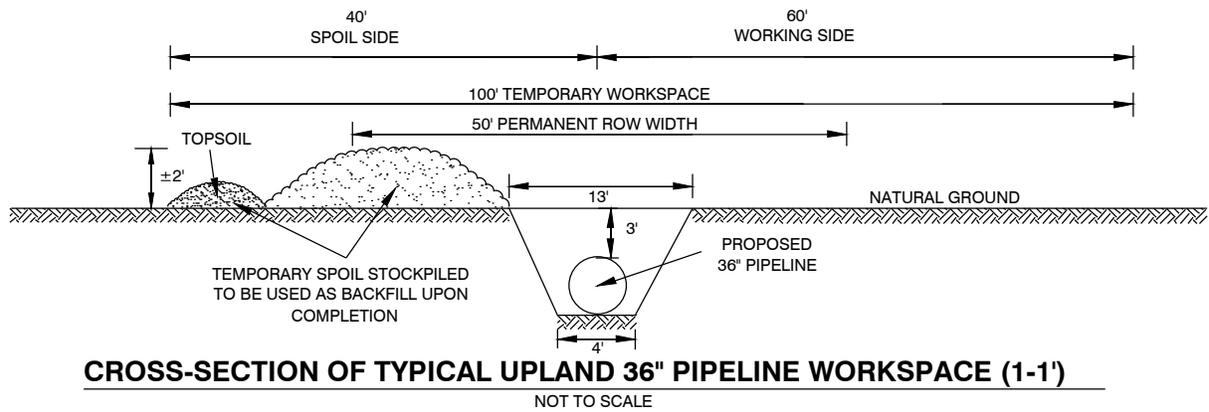
LA STORAGE LLC
PROPOSED NEW SALT DOME GAS STORAGE FACILITY
LOCATED IN SECTIONS 20, 27, 28, 29 & 34
T11S-R10W & T12S-R10W
CALCASIEU & CAMERON PARISH, LOUISIANA

NOT TO SCALE



REV. NO: 8	REV. DATE: 05/29/2015	REV. BY: JJR
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REVISION DESCRIPTION:
REVISED WATER WELLS 1A & 1B ON SHEETS 3 & 4.



- NOTES:**
1. ALL DREDGE MATERIAL WILL BE RETURNED TO THE PIPELINE DITCH AND BARGE ACCESS CHANNEL UPON COMPLETION OF INSTALLATION. IN THE INTERIM THE SPOIL PILES WILL BE MARKED PER USCG REQUIREMENTS.
 2. THESE PLATS ARE TO BE USED EXCLUSIVELY FOR THE ACQUISITION OF REGULATORY PERMITS.

DRAWN BY:	RLV	APPROVED BY:	JJR
DATE:	06/6/14	JOB NO:	2014.0733
DRAWING NAME:	140733_C4_REV8.DWG		
SHEET NO:	12	OF	24
PROJECTION:	LOUISIANA SOUTH		
GEO. DATUM:	NAD 83 VERT. DATUM: NAVD88		
GRID UNITS:	US SURVEY FEET		

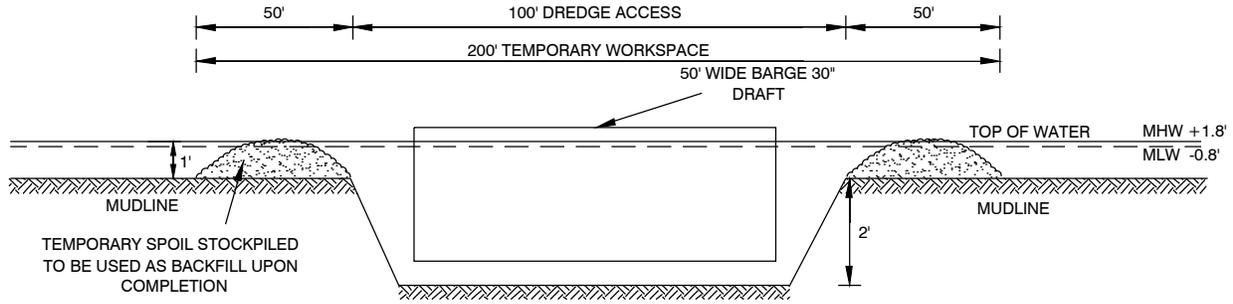
CROSS-SECTIONS

LA STORAGE LLC
 PROPOSED NEW SALT DOME GAS STORAGE FACILITY
 LOCATED IN SECTIONS 20, 27, 28, 29 & 34
 T11S-R10W & T12S-R10W
 CALCASIEU & CAMERON PARISH, LOUISIANA

NOT TO SCALE

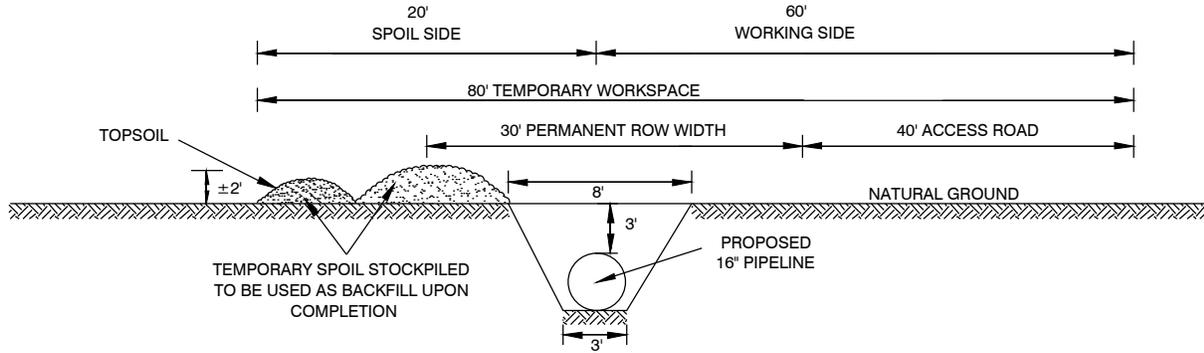
REV. NO:	8	REV. DATE:	05/29/2015	REV. BY:	JJR
REVISION DESCRIPTION: REVISED WATER WELLS 1A & 1B ON SHEETS 3 & 4.					

6/3/2015 - P:\Y-2014\2014.0733\DWG\COE\REV 8\140733_C4_REV8.DWG



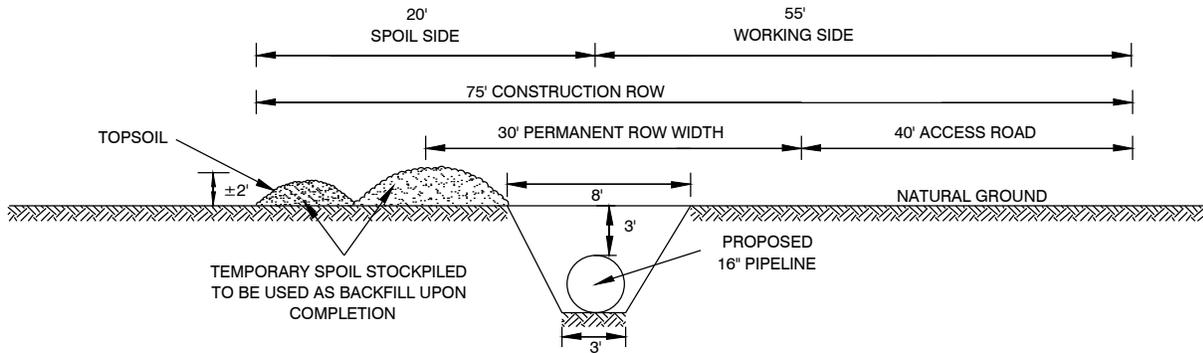
CROSS-SECTION OF PROPOSED BARGE ACCESS CHANNEL WORKSPACE (4-4')

NOT TO SCALE



CROSS-SECTION OF TYPICAL UPLAND 16" BRINE PIPELINE WORKSPACE (5-5')

NOT TO SCALE



CROSS-SECTION OF TYPICAL WETLAND 16" BRINE PIPELINE WORKSPACE (6-6')

NOT TO SCALE

NOTES:

1. ALL DREDGE MATERIAL WILL BE RETURNED TO THE PIPELINE DITCH AND BARGE ACCESS CHANNEL UPON COMPLETION OF INSTALLATION. IN THE INTERIM THE SPOIL PILES WILL BE MARKED PER USCG REQUIREMENTS.
2. THESE PLATS ARE TO BE USED EXCLUSIVELY FOR THE ACQUISITION OF REGULATORY PERMITS.

DRAWN BY:	RLV	APPROVED BY:	JJR
DATE:	06/6/14	JOB NO:	2014.0733
DRAWING NAME:	140733_C4_REV8.DWG		
SHEET NO:	13	OF	24
PROJECTION:	LOUISIANA SOUTH		
GEO. DATUM:	NAD 83 VERT. DATUM: NAVD88		
GRID UNITS:	US SURVEY FEET		

CROSS-SECTIONS

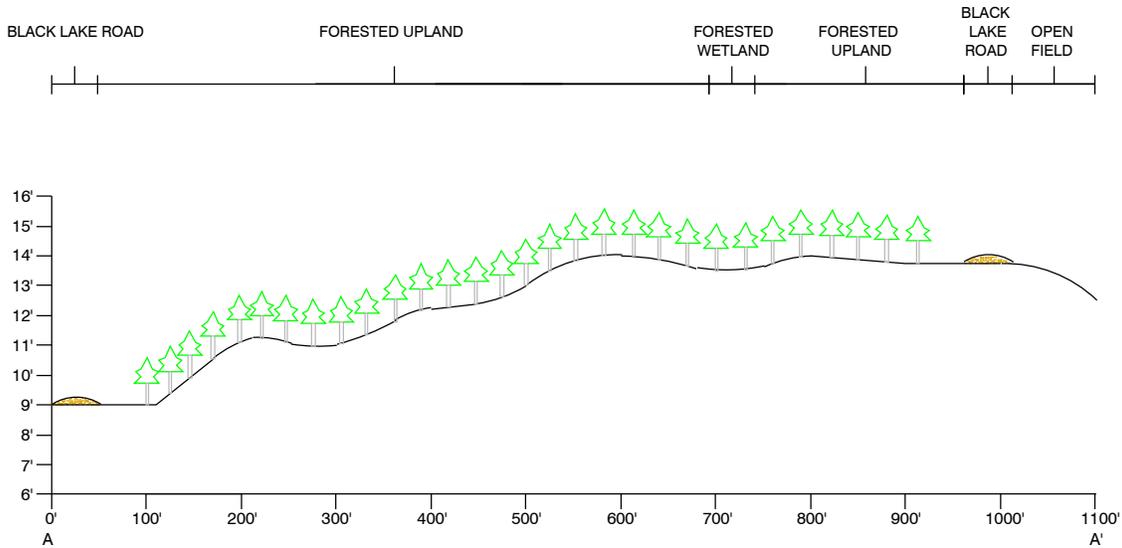
LA STORAGE LLC
 PROPOSED NEW SALT DOME GAS STORAGE FACILITY
 LOCATED IN SECTIONS 20, 27, 28, 29 & 34
 T11S-R10W & T12S-R10W
 CALCASIEU & CAMERON PARISH, LOUISIANA

NOT TO SCALE

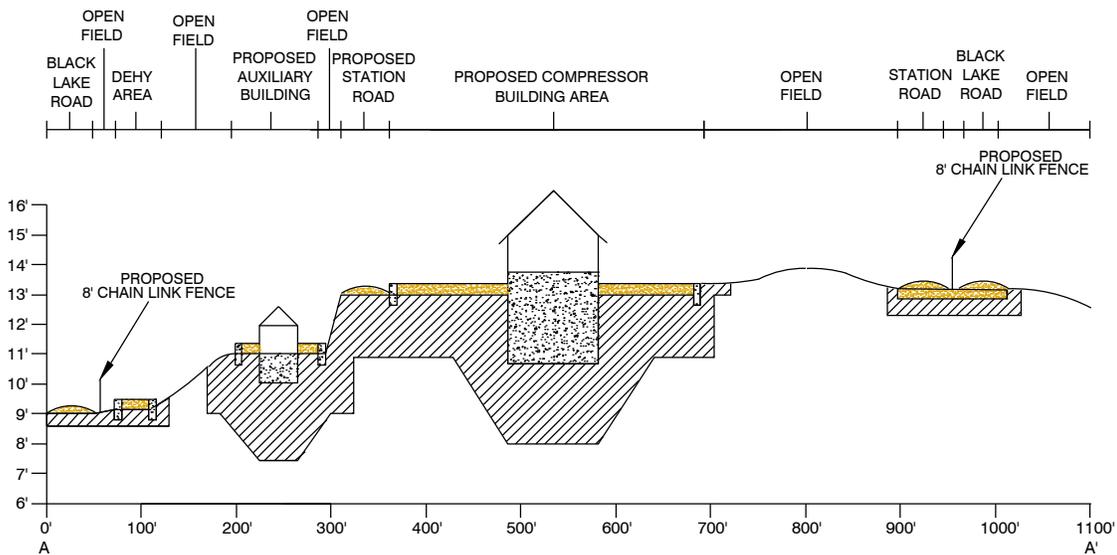


REV. NO:	8	REV. DATE:	05/29/2015	REV. BY:	JJR
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REVISION DESCRIPTION:
 REVISED WATER WELLS 1A & 1B ON SHEETS 3 & 4.



PRE-CONSTRUCTION
NOT TO SCALE



POST-CONSTRUCTION
NOT TO SCALE

PROPOSED PELICAN COMPRESSOR STATION
(CROSS - SECTION A - A')

LEGEND:

	COMPACTED EARTH MATERIAL
	CONCRETE
	CRUSHED ROCK/LIMESTONE

- NOTES:**
1. OPEN FIELD AREAS WILL BE SEEDED WITH GRASS AND ALLOWED TO NATURALLY REVEGETATE.
 2. BUILDINGS, FENCES, AND TREES ARE NOT TO SCALE AND ARE SHOWN FOR REFERENCE PURPOSES ONLY.
 3. THESE PLATS ARE TO BE USED EXCLUSIVELY FOR THE ACQUISITION OF REGULATORY PERMITS.

CROSS-SECTIONS

LA STORAGE LLC

PROPOSED NEW SALT DOME GAS STORAGE FACILITY
LOCATED IN SECTIONS 20, 27, 28, 29 & 34
T11S-R10W & T12S-R10W
CALCASIEU & CAMERON PARISH, LOUISIANA

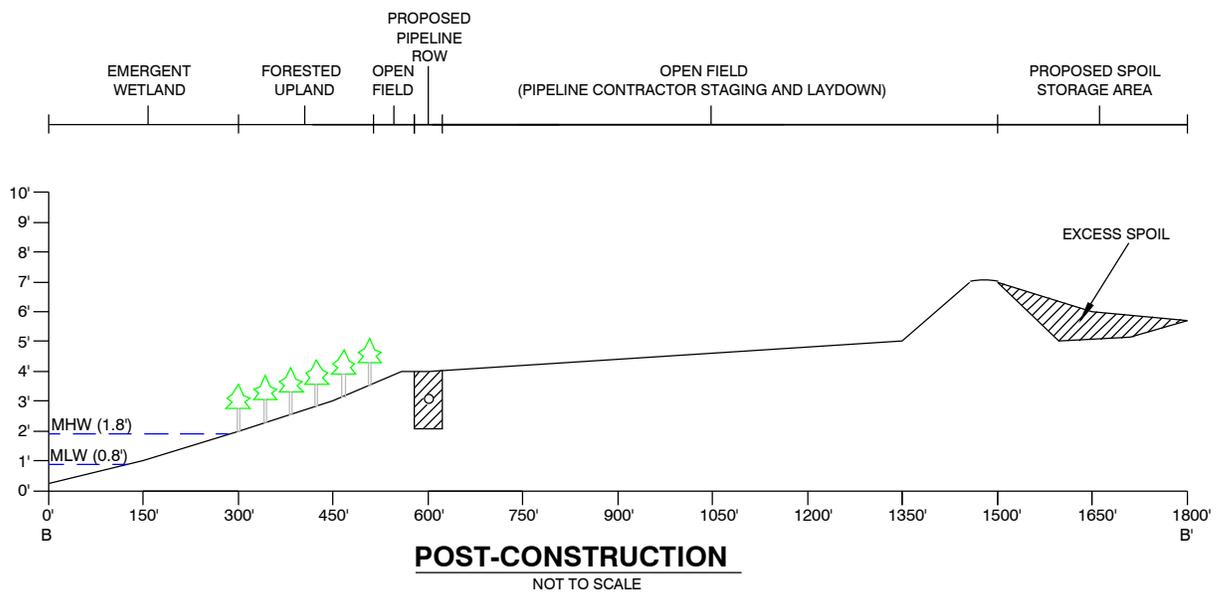
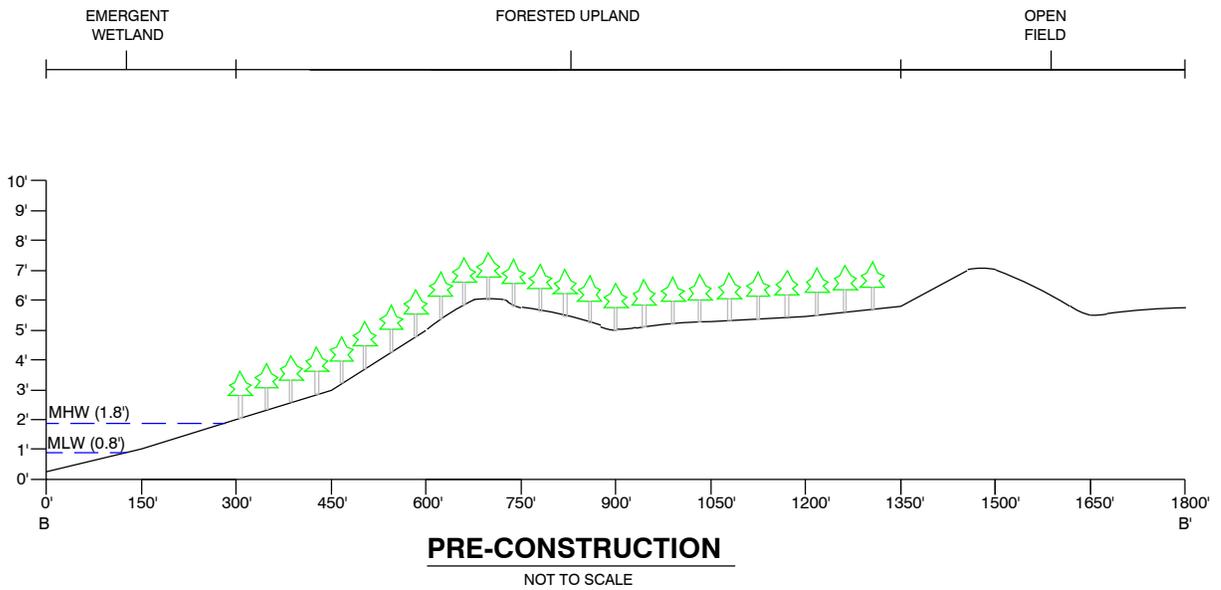
DRAWN BY:	RLV	APPROVED BY:	JJR
DATE:	06/6/14	JOB NO:	2014.0733
DRAWING NAME:	140733_C4_REV8.DWG		
SHEET NO:	14	OF	24
PROJECTION:	LOUISIANA SOUTH		
GEO. DATUM:	NAD 83 VERT. DATUM: NAVD88		
GRID UNITS:	US SURVEY FEET		

NOT TO SCALE



REV. NO:	8	REV. DATE:	05/29/2015	REV. BY:	JJR
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REVISION DESCRIPTION:
REVISED WATER WELLS 1A & 1B ON SHEETS 3 & 4.



PROPOSED PELICAN COMPRESSOR STATION PIPELINE ROW AND WORKSPACE AREA
(CROSS - SECTION B - B')

- NOTES:**
1. OPEN FIELD AREAS WILL BE SEEDED WITH GRASS AND ALLOWED TO NATURALLY REVEGETATE.
 2. MLW AND MHW STANDS FOR MEAN LOW WATER AND MEAN HIGH WATER LEVEL, RESPECTIVELY.
 3. BUILDINGS, FENCES AND TREES ARE NOT TO SCALE AND ARE SHOWN FOR REFERENCE PURPOSES ONLY.
 4. THESE PLATS ARE TO BE USED EXCLUSIVELY FOR THE ACQUISITION OF REGULATORY PERMITS.

LEGEND:

	COMPACTED EARTH MATERIAL
	CONCRETE
	CRUSHED ROCK/LIMESTONE

DRAWN BY:	RLV	APPROVED BY:	JJR
DATE:	06/6/14	JOB NO:	2014.0733
DRAWING NAME:	140733_C4_REV8.DWG		
SHEET NO:	15	OF	24
PROJECTION:	LOUISIANA SOUTH		
GEO. DATUM:	NAD 83 VERT. DATUM: NAVD88		
GRID UNITS:	US SURVEY FEET		

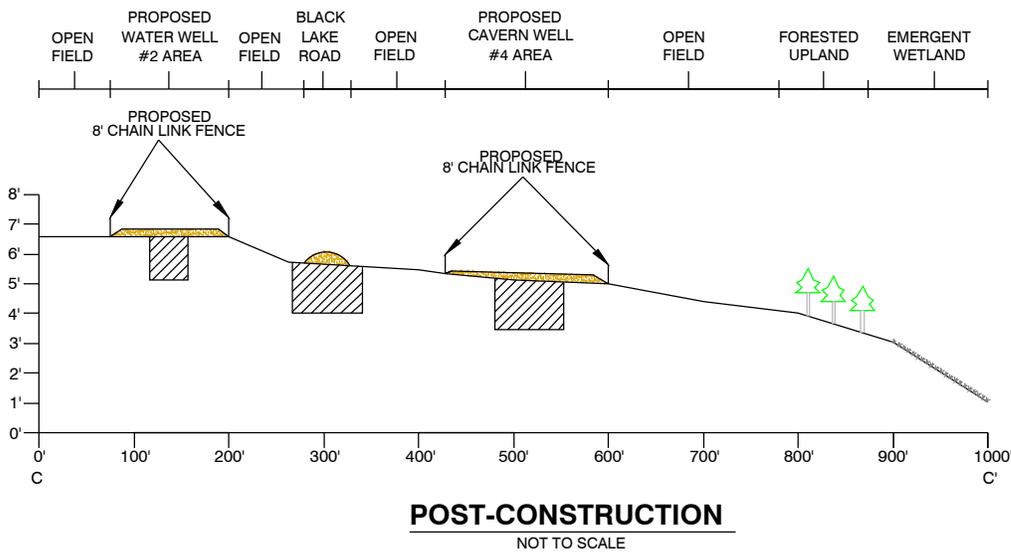
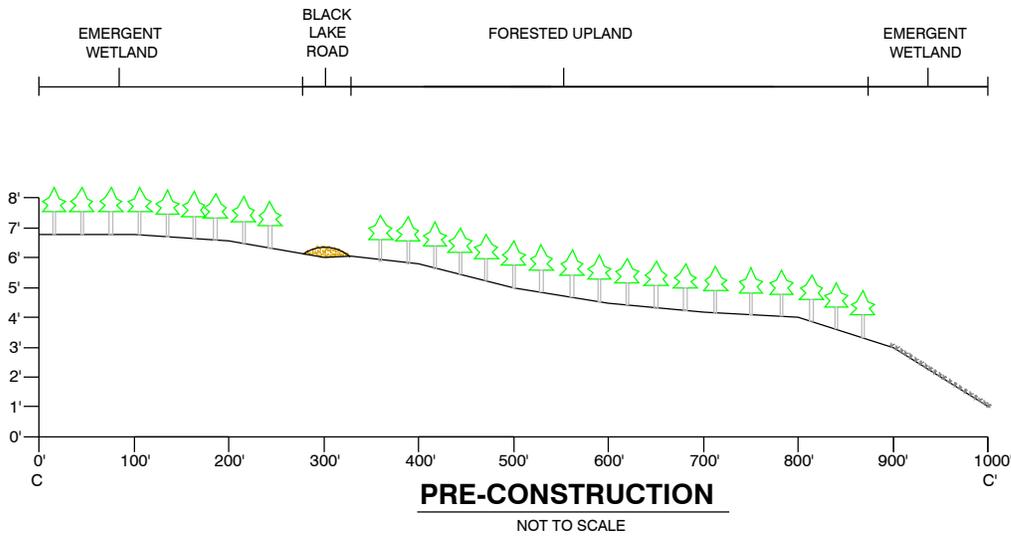
CROSS-SECTIONS

LA STORAGE LLC
PROPOSED NEW SALT DOME GAS STORAGE FACILITY
 LOCATED IN SECTIONS 20, 27, 28, 29 & 34
 T11S-R10W & T12S-R10W
 CALCASIEU & CAMERON PARISH, LOUISIANA

NOT TO SCALE



REV. NO:	8	REV. DATE:	05/29/2015	REV. BY:	JJR
REVISION DESCRIPTION: REVISED WATER WELLS 1A & 1B ON SHEETS 3 & 4.					



**PROPOSED PELICAN COMPRESSOR STATION PIPELINE ROW AND WORKSPACE AREA
(CROSS - SECTION C - C')**

NOTES:

1. OPEN FIELD AREAS WILL BE SEEDED WITH GRASS AND ALLOWED TO NATURALLY REVEGETATE.
2. BUILDINGS, FENCES AND TREES ARE NOT TO SCALE AND ARE SHOWN FOR REFERENCE PURPOSES ONLY.
3. THESE PLATS ARE TO BE USED EXCLUSIVELY FOR THE ACQUISITION OF REGULATORY PERMITS.

LEGEND:

- COMPACTED EARTH MATERIAL
- CONCRETE
- CRUSHED ROCK/LIMESTONE

DRAWN BY:	RLV	APPROVED BY:	JJR
DATE:	06/6/14	JOB NO:	2014.0733
DRAWING NAME:	140733_C4_REV8.DWG		
SHEET NO:	16	OF	24
PROJECTION:	LOUISIANA SOUTH		
GEO. DATUM:	NAD 83 VERT. DATUM: NAVD88		
GRID UNITS:	US SURVEY FEET		

CROSS-SECTIONS

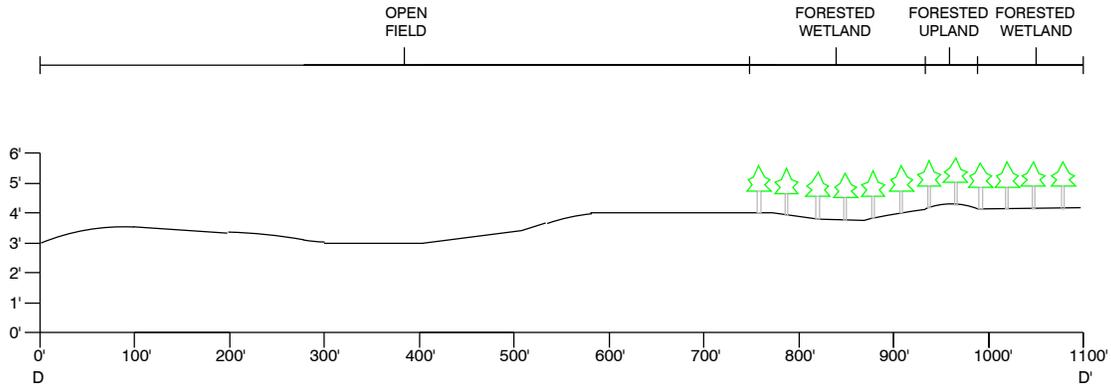
LA STORAGE LLC
 PROPOSED NEW SALT DOME GAS STORAGE FACILITY
 LOCATED IN SECTIONS 20, 27, 28, 29 & 34
 T11S-R10W & T12S-R10W
 CALCASIEU & CAMERON PARISH, LOUISIANA

NOT TO SCALE

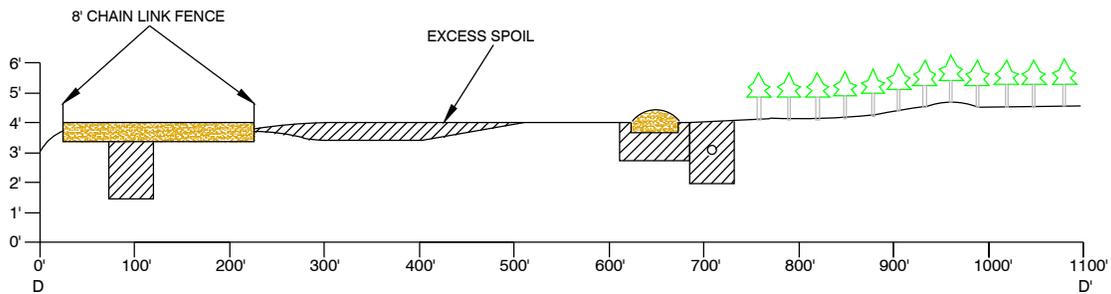
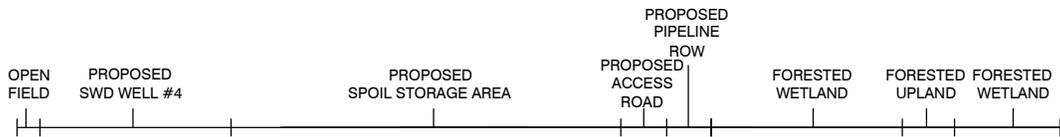


REV. NO:	8	REV. DATE:	05/29/2015	REV. BY:	JJR
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REVISION DESCRIPTION:
REVISED WATER WELLS 1A & 1B ON SHEETS 3 & 4.



PRE-CONSTRUCTION
NOT TO SCALE



POST-CONSTRUCTION
NOT TO SCALE

**PROPOSED BRINE DISPOSAL AREA
(CROSS - SECTION D - D')**

- NOTES:
1. OPEN FIELD AREAS AND RIGHT-OF-WAY (ROW) WILL BE SEEDED WITH GRASS AND ALLOWED TO NATURALLY REVEGETATE.
 2. BUILDINGS, FENCES, AND TREES ARE NOT TO SCALE AND ARE SHOWN FOR REFERENCE PURPOSES ONLY.
 3. THESE PLATS ARE TO BE USED EXCLUSIVELY FOR THE ACQUISITION OF REGULATORY PERMITS.

LEGEND:

	COMPACTED EARTH MATERIAL
	CONCRETE
	CRUSHED ROCK/LIMESTONE

DRAWN BY:	RLV	APPROVED BY:	JJR
DATE:	06/6/14	JOB NO:	2014.0733
DRAWING NAME:	140733_C4_REV8.DWG		
SHEET NO:	17	OF	24
PROJECTION:	LOUISIANA SOUTH		
GEO. DATUM:	NAD 83 VERT. DATUM: NAVD88		
GRID UNITS:	US SURVEY FEET		

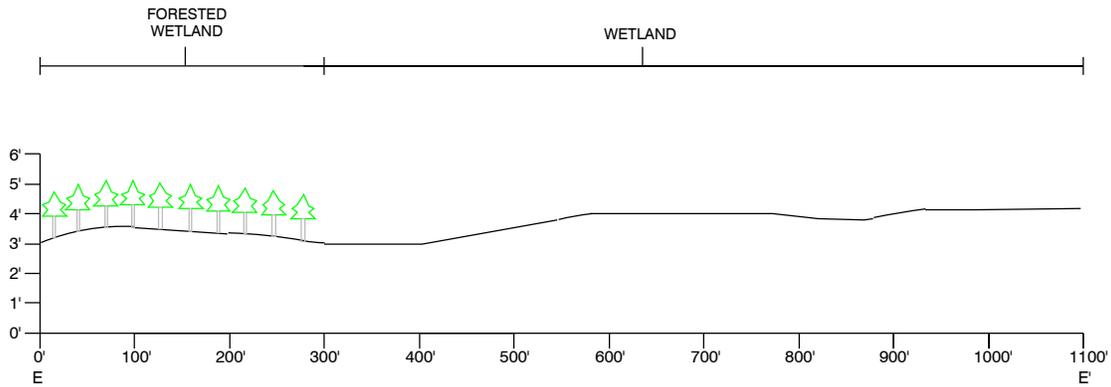
CROSS-SECTIONS

LA STORAGE LLC
PROPOSED NEW SALT DOME GAS STORAGE FACILITY
 LOCATED IN SECTIONS 20, 27, 28, 29 & 34
 T11S-R10W & T12S-R10W
 CALCASIEU & CAMERON PARISH, LOUISIANA

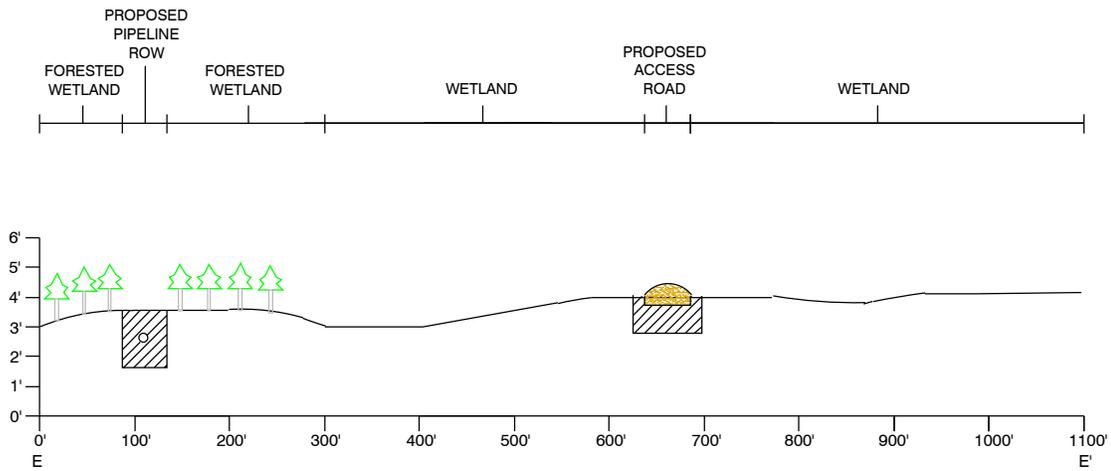
NOT TO SCALE



REV. NO:	8	REV. DATE:	05/29/2015	REV. BY:	JJR
REVISION DESCRIPTION: REVISED WATER WELLS 1A & 1B ON SHEETS 3 & 4.					



PRE-CONSTRUCTION
NOT TO SCALE



POST-CONSTRUCTION
NOT TO SCALE

PROPOSED BRINE DISPOSAL AREA
(CROSS - SECTION E - E')

- NOTES:**
1. OPEN FIELD AREAS AND RIGHT-OF-WAY (ROW) WILL BE SEEDED WITH GRASS AND ALLOWED TO NATURALLY REVEGETATE.
 2. BUILDINGS, FENCES, AND TREES ARE NOT TO SCALE AND ARE SHOWN FOR REFERENCE PURPOSES ONLY.
 3. THESE PLATS ARE TO BE USED EXCLUSIVELY FOR THE ACQUISITION OF REGULATORY PERMITS.

LEGEND:

	COMPACTED EARTH MATERIAL
	CONCRETE
	CRUSHED ROCK/LIMESTONE

DRAWN BY:	RLV	APPROVED BY:	JJR
DATE:	06/6/14	JOB NO:	2014.0733
DRAWING NAME:	140733_C4_REV8.DWG		
SHEET NO:	18	OF	24
PROJECTION:	LOUISIANA SOUTH		
GEO. DATUM:	NAD 83 VERT. DATUM: NAVD88		
GRID UNITS:	US SURVEY FEET		

CROSS-SECTIONS

LA STORAGE LLC
PROPOSED NEW SALT DOME GAS STORAGE FACILITY
 LOCATED IN SECTIONS 20, 27, 28, 29 & 34
 T11S-R10W & T12S-R10W
 CALCASIEU & CAMERON PARISH, LOUISIANA

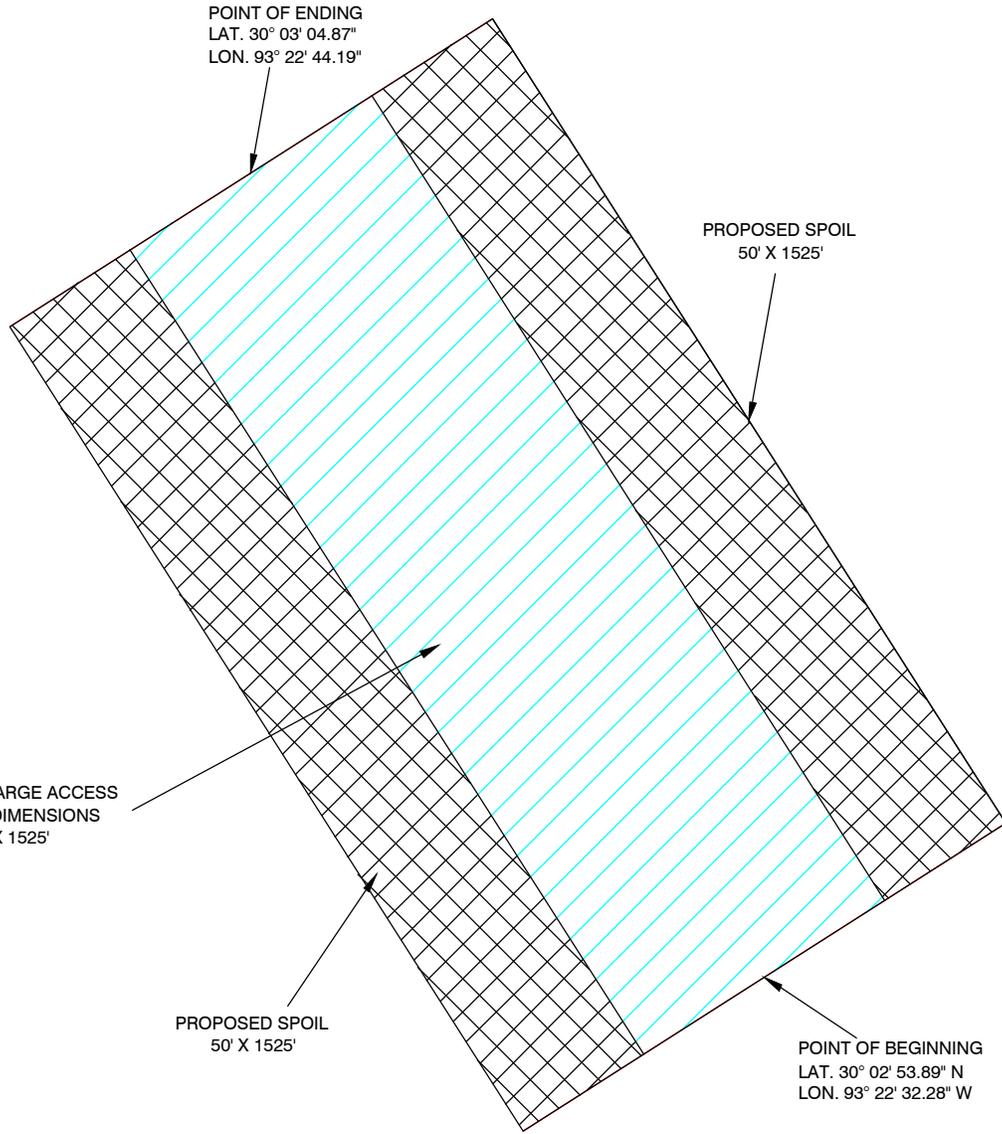
NOT TO SCALE



REV. NO:	8	REV. DATE:	05/29/2015	REV. BY:	JJR
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REVISION DESCRIPTION:
REVISED WATER WELLS 1A & 1B ON SHEETS 3 & 4.

6/3/2015 - P:\Y-2014\2014.0733\DWG\COE\REV 81140733_C4_REV8.DWG



NOTES:
 1. ALL DREDGE MATERIAL WILL BE RETURNED TO THE PIPELINE DITCH AND BARGE ACCESS CHANNEL UPON COMPLETION OF INSTALLATION. IN THE INTERIM THE SPOIL PILES WILL BE MARKED PER USCG REQUIREMENTS.
 2. THESE PLATS ARE TO BE USED EXCLUSIVELY FOR THE ACQUISITION OF REGULATORY PERMITS.

LEGEND:	
	EXCAVATION
	SPOIL PLACEMENT

DRAWN BY:	RLV	APPROVED BY:	JJR
DATE:	06/6/14	JOB NO:	2014.0733
DRAWING NAME:	140733_C4_REV8.DWG		
SHEET NO:	19	OF	24
PROJECTION:	LOUISIANA SOUTH		
GEO. DATUM:	NAD 83 VERT. DATUM: NAVD88		
GRID UNITS:	US SURVEY FEET		

PROPOSED BARGE ACCESS CHANNEL

LA STORAGE LLC
 PROPOSED NEW SALT DOME GAS STORAGE FACILITY
 LOCATED IN SECTIONS 20, 27, 28, 29 & 34
 T11S-R10W & T12S-R10W
 CALCASIEU & CAMERON PARISH, LOUISIANA

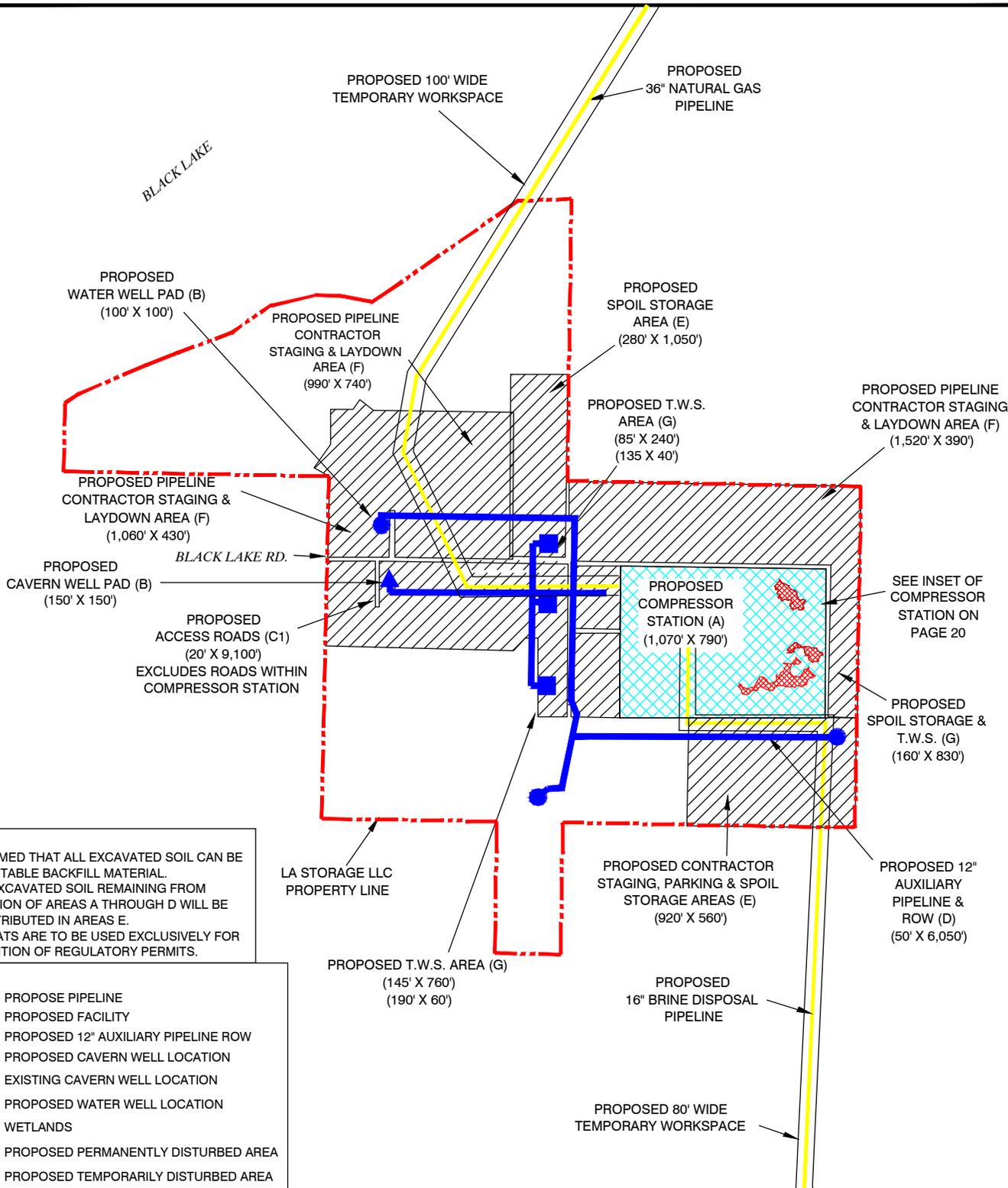
NOT TO SCALE



T. BAKER SMITH

SOLUTIONS START HERE
 107 Global Circle, Lafayette, LA 70503
 (337)735-2800 - tbsmith.com

REV. NO:	8	REV. DATE:	05/29/2015	REV. BY:	JJR
REVISION DESCRIPTION: REVISED WATER WELLS 1A & 1B ON SHEETS 3 & 4.					



NOTES:
 1. IT IS ASSUMED THAT ALL EXCAVATED SOIL CAN BE USED AS SUITABLE BACKFILL MATERIAL.
 2. EXCESS EXCAVATED SOIL REMAINING FROM CONSTRUCTION OF AREAS A THROUGH D WILL BE EVENLY DISTRIBUTED IN AREAS E.
 3. THESE PLATS ARE TO BE USED EXCLUSIVELY FOR THE ACQUISITION OF REGULATORY PERMITS.

LEGEND:

	PROPOSED PIPELINE
	PROPOSED FACILITY
	PROPOSED 12" AUXILIARY PIPELINE ROW
	PROPOSED CAVERN WELL LOCATION
	EXISTING CAVERN WELL LOCATION
	PROPOSED WATER WELL LOCATION
	WETLANDS
	PROPOSED PERMANENTLY DISTURBED AREA
	PROPOSED TEMPORARILY DISTURBED AREA

DRAWN BY:	RLV	APPROVED BY:	JJR
DATE:	06/6/14	JOB NO:	2014.0733
DRAWING NAME:	140733_C4_REV8.DWG		
SHEET NO:	20	OF	24
PROJECTION:	LOUISIANA SOUTH		
GEO. DATUM:	NAD 83 VERT. DATUM: NAVD88		
GRID UNITS:	US SURVEY FEET		

PROPOSED FACILITY LAYOUT
LA STORAGE LLC
 PROPOSED NEW SALT DOME GAS STORAGE FACILITY
 LOCATED IN SECTIONS 20, 27, 28, 29 & 34
 T11S-R10W & T12S-R10W
 CALCASIEU & CAMERON PARISH, LOUISIANA

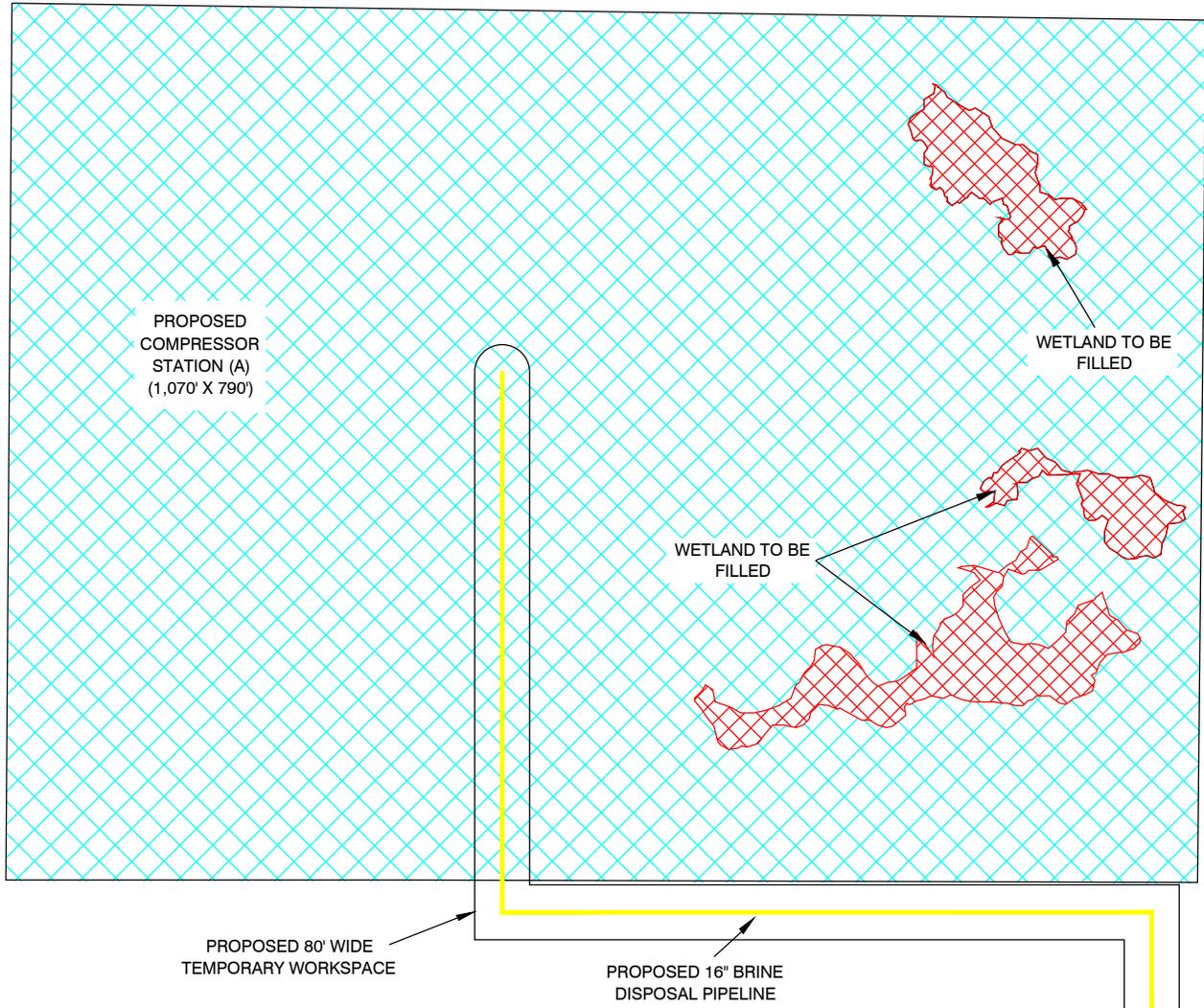
NOT TO SCALE



T. BAKER SMITH
 SOLUTIONS START HERE
 107 Global Circle, Lafayette, LA 70503
 (337) 735-2800 - tbsmith.com

REV. NO:	8	REV. DATE:	05/29/2015	REV. BY:	JJR
REVISION DESCRIPTION: REVISED WATER WELLS 1A & 1B ON SHEETS 3 & 4.					

6/3/2015 - P:\Y-2014\2014.0733\DWG\COE\REV 8\140733_C4_REV8.DWG



AREA	AREA DESCRIPTION	DISTURBANCE TYPE	PERMANENT DISTURBED AREAS	TEMPORARY DISTURBED AREAS	SILT EXCAVATION	SILT BACKFILL	CRUSHED ROCK FILL	CONCRETE FILL
A	COMPRESSOR STATION	PERMANENT/TEMPORARY	16.7 ACRES		26,100 CU. YDS.	15,710 CU. YDS.	3,175 CU. YDS.	1,720 CU. YDS.
B	WELL PADS	PERMANENT	2.75 ACRES		665 CU. YDS.	315 CU. YDS.	2,550 CU. YDS.	14 CU. YDS.
C1	ACCESS ROADS (OUTSIDE COMPRESSOR STATION)	PERMANENT	4.16 ACRES		12,640 CU. YDS.	8,425 CU. YDS.	6,320 CU. YDS.	0 CU. YDS.
C2	ACCESS ROADS (INSIDE COMPRESSOR STATION)	PERMANENT	1.09 ACRES		4,420 CU. YDS.	3,750 CU. YDS.	2,770 CU. YDS.	0 CU. YDS.
D	PIPELINE WORK SPACE	TEMPORARY		8.39 ACRES	17,200 CU. YDS.	14,780 CU. YDS.	0 CU. YDS.	0 CU. YDS.
E	SPOIL STORAGE AREAS	TEMPORARY		13.55 ACRES	0 CU. YDS.	18,045 CU. YDS.	1,100 CU. YDS.	0 CU. YDS.
F	STAGING & LAYDOWN AREAS	TEMPORARY		42.40 ACRES	0 CU. YDS.	0 CU. YDS.	1,600 CU. YDS.	0 CU. YDS.
G	TEMPORARY WORKSPACE AREAS	TEMPORARY		9.5 ACRES	0 CU. YDS.	0 CU. YDS.	1,100 CU. YDS.	0 CU. YDS.
TOTAL			24.7 ACRES	73.84 ACRES	61,025 CU. YDS.	61,025 CU. YDS.	18,615 CU. YDS.	1,734 CU. YDS.

LEGEND:

	PROPOSED PIPELINE
	COMPRESSOR STATION
	TEMPORARILY DISTURBED AREA

EXCAVATION AND FILL PLAN
NOT TO SCALE

NOTE:
1. THESE PLATS ARE TO BE USED EXCLUSIVELY FOR THE ACQUISITION OF REGULATORY PERMITS.

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DATE:	06/6/14	JOB NO:	2014.0733
DRAWING NAME:	140733_C4_REV8.DWG		
SHEET NO:	21	OF	24
PROJECTION: LOUISIANA SOUTH GEO. DATUM: NAD 83 VERT. DATUM: NAVD88 GRID UNITS: US SURVEY FEET			

PROPOSED COMPRESSOR STATION

LA STORAGE LLC
PROPOSED NEW SALT DOME GAS STORAGE FACILITY
LOCATED IN SECTIONS 20, 27, 28, 29 & 34
T11S-R10W & T12S-R10W
CALCASIEU & CAMERON PARISH, LOUISIANA

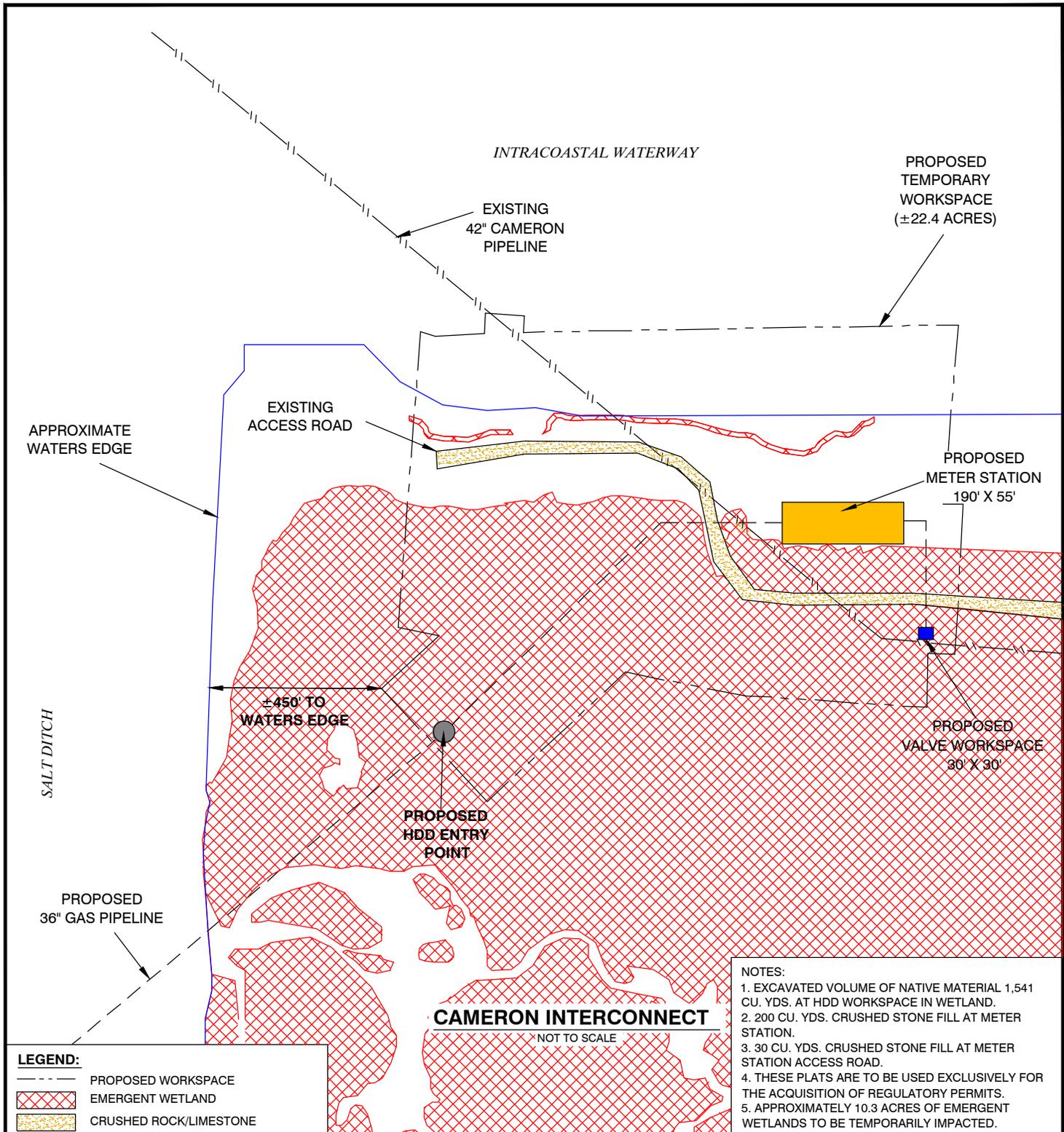
NOT TO SCALE



REV. NO:	8	REV. DATE:	05/29/2015	REV. BY:	JJR
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REVISION DESCRIPTION:
REVISED WATER WELLS 1A & 1B ON SHEETS 3 & 4.

6/3/2015 - P:\Y-2014\2014.0733\DWG\COE\REV 8\140733_C4_REV8.DWG



- NOTES:**
1. EXCAVATED VOLUME OF NATIVE MATERIAL 1,541 CU. YDS. AT HDD WORKSPACE IN WETLAND.
 2. 200 CU. YDS. CRUSHED STONE FILL AT METER STATION.
 3. 30 CU. YDS. CRUSHED STONE FILL AT METER STATION ACCESS ROAD.
 4. THESE PLATS ARE TO BE USED EXCLUSIVELY FOR THE ACQUISITION OF REGULATORY PERMITS.
 5. APPROXIMATELY 10.3 ACRES OF EMERGENT WETLANDS TO BE TEMPORARILY IMPACTED.

LEGEND:

	PROPOSED WORKSPACE
	EMERGENT WETLAND
	CRUSHED ROCK/LIMESTONE

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PROPOSED CAMERON INTERCONNECT

LA STORAGE LLC

PROPOSED NEW SALT DOME GAS STORAGE FACILITY

LOCATED IN SECTIONS 20, 27, 28, 29 & 34
T11S-R10W & T12S-R10W
CALCASIEU & CAMERON PARISH, LOUISIANA

NOT TO SCALE



T. BAKER SMITH
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PROPOSED
16" BRINE DISPOSAL
PIPELINE

CONTINUES NORTH TO
FONTENOT GROVE RD

AREA	AREA DESCRIPTION	DISTURBANCE TYPE
A	WELL PAD	PERMANENT
B	ACCESS ROAD	PERMANENT
C	SPOIL STORAGE	TEMPORARY
D	STAGING & LAYDOWN	TEMPORARY
E	TEMPORARY WORKSPACE	TEMPORARY

	PERMANENT DISTURBED AREA	TEMPORARY DISTURBED AREA	SILT EXCAVATION
A	3.62 ACRES		1,110 CU. YDS.
B	7.31 ACRES		22,225 CU. YDS.
C		2.75 ACRES	0 CU. YDS.
D		2.75 ACRES	0 CU. YDS.
E		3.90 ACRES	0 CU. YDS.
TOTAL	10.93 ACRES	9.40 ACRES	23,335 CU. YDS.

	SILT BACKFILL	CRUSHED ROCK FILL	CONCRETE FILL
A	920 CU. YDS.	3,610 CU. YDS.	8 CU. YDS.
B	16,670 CU. YDS.	8,335 CU. YDS.	0 CU. YDS.
C	5,745 CU. YDS.	0 CU. YDS.	0 CU. YDS.
D	0 CU. YDS.	1,100 CU. YDS.	0 CU. YDS.
E	0 CU. YDS.	0 CU. YDS.	0 CU. YDS.
TOTAL	23,335 CU. YDS.	13,045 CU. YDS.	8 CU. YDS.

PROPOSED 40'
ACCESS ROAD
(±5,459')

PROPOSED SWD
WELL #1 PAD "A"
PERM: 175' X 130'
TEMP: 250' X 250'

TEMPORARY
WORKSPACE

PROPOSED 40'
ACCESS ROAD
(5,459')

PROPOSED SWD
WELL #2 PAD "A"
PERM: 150' X 150'
TEMP: 270' X 210'

PROPOSED SWD
WELL #3 PAD "A"
PERM: 150' X 150'
TEMP: 250' X 275'

EXISTING ALLADIN
ROAD CONTINUES

PROPOSED SPOIL
STORAGE PIPELINE
CONTRACTOR STAGING &
LAYDOWN AREA "C & D"
460' X 260'

PROPOSED SWD
WELL #4 PAD "A"
PERM: 300' X 300'

EXISTING MAGGIE
HEBERT ROAD
CONTINUES

PROPOSED 40'
ACCESS ROAD
(±5,459')

BRINE DISPOSAL AREA
NOT TO SCALE

- NOTES**
- IT IS ASSUMED THAT ALL EXCAVATED SOIL CAN BE USED AS SUITABLE BACKFILL MATERIAL.
 - EXCESS SOIL REMAINING FROM CONSTRUCTION WILL BE EVENLY DISTRIBUTED IN AREA C.
 - ROADS WILL BE 20' WIDE. BUT WILL REQUIRE 40' BASE.
 - PIPELINE ROW AND ACCESS ROADS IMPACT 3.5 WETLAND ACRES AND 8.1 UPLAND ACRES.
 - NONE OF THE SWD WELL PADS WILL BE LOCATED IN WETLANDS.
 - EACH PERMANENT WELL PAD WILL BE SURROUNDED BY A 8' CHAIN FENCE.
 - THESE PLATS ARE TO BE USED EXCLUSIVELY FOR THE ACQUISITION OF REGULATORY PERMITS.

LEGEND:

- PROPOSED SWD WELL
- PROPOSED PIPELINE
- PROPOSED TEMPORARILY DISTURBED AREA
- PROPOSED PERMANENTLY DISTURBED AREA
- PROPOSED ACCESS ROAD
- SCRUB SHRUB WETLAND
- FORESTED WETLAND
- EMERGENT WETLAND

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PROPOSED BRINE DISPOSAL AREA
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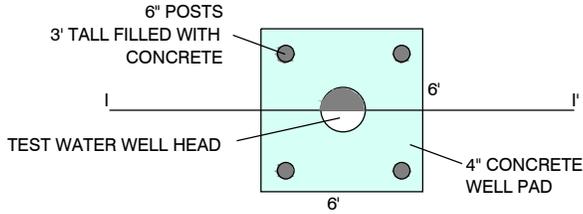
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**FINISHED TEST WATER
WELL PAD PLAN VIEW**

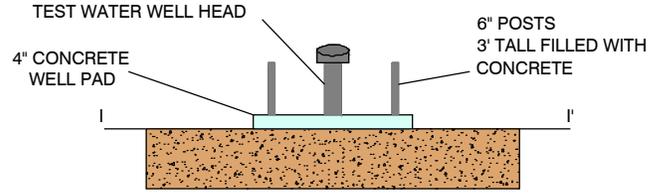
NOT TO SCALE



TOTAL CONCRETE FILL <1 CU YD

**FINISHED TEST WATER
WELL PAD SIDE VIEW**

NOT TO SCALE



TOTAL CONCRETE FILL <1 CU YD

COASTAL NOTES:

ALL STRUCTURES, FACILITIES, WELLS 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 ACTIVITIES.

AS-BUILT DRAWINGS SHALL BE SUBMITTED WITHIN 30 DAYS OF COMPLETION OF THIS PROJECT TO THE LOUISIANA DEPARTMENT OF NATURAL RESOURCES, COASTAL MANAGEMENT DIVISION AND OFFICE OF CONSERVATION, PIPELINE SAFETY DIVISION, POST OFFICE BOX 44487, BATON ROUGE, LA 70804-4487.

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.

THE PERMITEE SHALL ALSO CONTACT OTHER GOVERNMENTAL ENTITIES THAT MAY HAVE OPTED OUT OF THE ONE CALL PROGRAM. THESE GOVERNMENTAL ENTITIES MAY HAVE OPERATIONS LOCATED IN THE AREA OF THIS PROJECT.

ALL STRUCTURES WILL BE MARKED AND LIGHTED IN ACCORDANCE WITH U.S. COAST GUARD REGULATIONS.

NO FIELD SURVEY WAS CONDUCTED TO PRODUCE THESE PLATS.

CALCULATIONS:

APPROXIMATELY 76,170 CU. YDS. OF WATER BOTTOMS TO BE DISPLACED DUE TO PROPOSED DREDGING.

APPROXIMATELY 11,333 CU. YDS. OF WATER BOTTOMS TO BE IMPACTED DUE TO PROPOSED BARGE ACCESS CHANNEL.

APPROXIMATELY 195 CU. YDS. OF EMERGENT WETLANDS TO BE IMPACTED DUE TO PROPOSED BARGE ACCESS CHANNEL.

APPROXIMATELY 10,900 CU. YDS. OF UPLANDS TO BE IMPACTED DUE TO PROPOSED 16" BRINE PIPELINE.

APPROXIMATELY 4,800 CU. YDS. OF WETLANDS TO BE IMPACTED DUE TO PROPOSED 16" BRINE PIPELINE.

APPROXIMATELY 3,455 CU. YDS. OF UPLANDS TO BE IMPACTED DUE TO PROPOSED 36" GAS PIPELINE.

APPROXIMATELY 6,343 CU. YDS. OF WETLANDS TO BE IMPACTED DUE TO PROPOSED 36" GAS PIPELINE.

AVERAGE DRAFT OF VESSELS USED IS 2.5 FEET.

APPROXIMATELY 5.07 ACRES OF FORESTED WETLANDS TO BE TEMPORARY IMPACTED DUE TO PIPELINE CONSTRUCTION.

APPROXIMATELY 17.7 ACRES OF EMERGENT WETLANDS TO BE TEMPORARY IMPACTED DUE TO PIPELINE CONSTRUCTION.

APPROXIMATELY 0.87 ACRES OF SCRUB SHRUB WETLANDS TO BE TEMPORARY IMPACTED DUE TO PIPELINE CONSTRUCTION.

APPROXIMATELY 1.07 ACRES OF FORESTED WETLANDS TO BE PERMANENTLY IMPACTED DUE TO COMPRESSOR STATION.

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NOTES/CALCULATIONS

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