

3.4

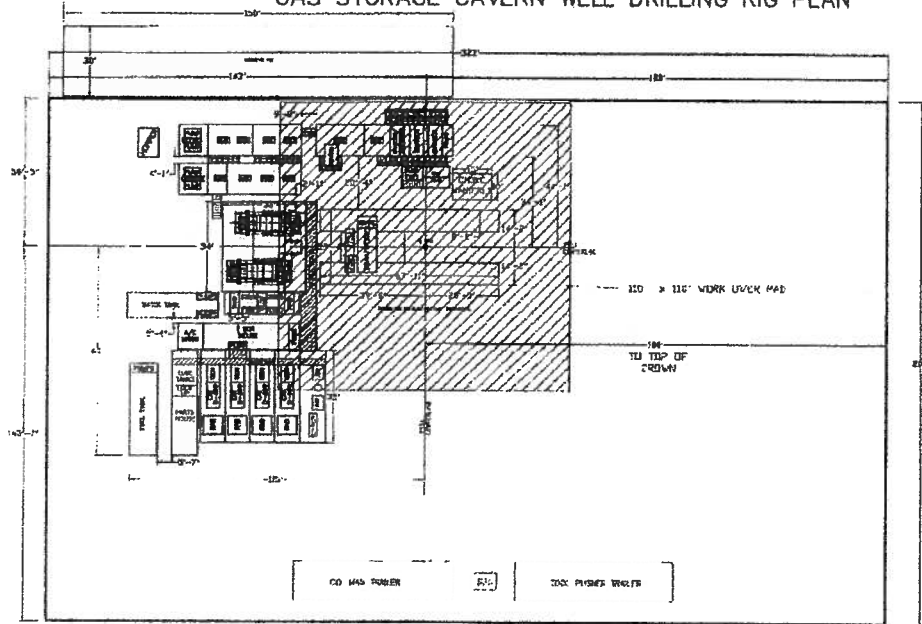
**Attachment 4**

**Pine Prairie Energy Center, LLC**

**Supplemental Expansion Project**

**Typical Construction Drawings**

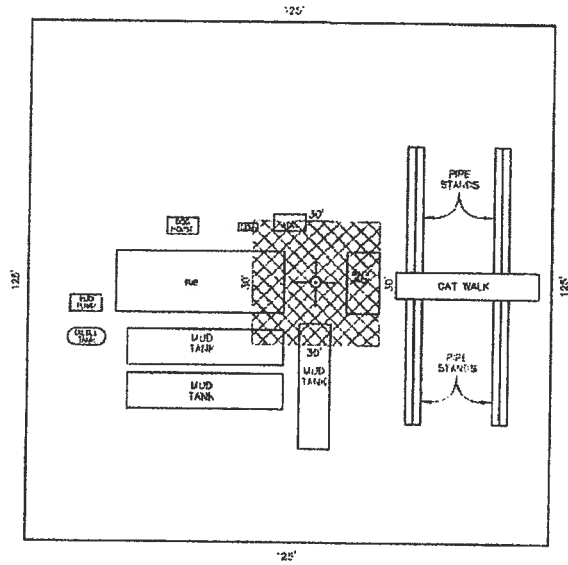
# GAS STORAGE CAVERN WELL DRILLING RIG PLAN



PUBLIC

<p><b>LEGEND</b></p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">                 TRACT NUMBER                  INTERSTATE HIGHWAY                  U.S. HIGHWAY                  STATE HIGHWAY                  MILE POST                  PIPELINE MARKING SIGNS                  TEST STATION                  SPLIT HEAD             </td> <td style="width: 33%;">                 FOUNDATION PIPELINE                  POWER LINE                  TELEPHONE LINE                  BURIED CABLE (L.C.)                  FENCE LINE                  ROAD CENTER OF PROPERTY LINE                  PIPE CHANGE                  MAIN LINE VALVE                  CROSS VALVE                  ANODE BED             </td> <td style="width: 33%;"></td> </tr> </table>	TRACT NUMBER INTERSTATE HIGHWAY U.S. HIGHWAY STATE HIGHWAY MILE POST PIPELINE MARKING SIGNS TEST STATION SPLIT HEAD	FOUNDATION PIPELINE POWER LINE TELEPHONE LINE BURIED CABLE (L.C.) FENCE LINE ROAD CENTER OF PROPERTY LINE PIPE CHANGE MAIN LINE VALVE CROSS VALVE ANODE BED		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">REV</td> <td style="width: 10%;">DATE</td> <td style="width: 10%;">BY</td> <td style="width: 50%;">DESCRIPTION</td> <td style="width: 10%;">CHK</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table> <p>PROJECT NO. 447701</p> <p style="text-align: center;"><b>MUSTANG ENGINEERING, L.P.</b> HOUSTON, TEXAS</p>	REV	DATE	BY	DESCRIPTION	CHK						<p style="text-align: center;"><b>PINE PRAIRIE ENERGY CENTER, LLC</b></p> <p style="text-align: center;"><b>TYPICAL GAS STORAGE CAVERN WELL SITE DIAGRAM</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">DRAWN BY: MELP</td> <td style="width: 33%;">DATE: 06/17/04</td> <td style="width: 33%;">DWG NO</td> </tr> <tr> <td>CHECKED BY: MELP</td> <td>DATE: 08/25/04</td> <td>FIGURE 1.1-13A1</td> </tr> <tr> <td>SCALE: N.T.S.</td> <td>APP:</td> <td>RTV: 0</td> </tr> </table>	DRAWN BY: MELP	DATE: 06/17/04	DWG NO	CHECKED BY: MELP	DATE: 08/25/04	FIGURE 1.1-13A1	SCALE: N.T.S.	APP:	RTV: 0
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DRAWN BY: MELP	DATE: 06/17/04	DWG NO																						
CHECKED BY: MELP	DATE: 08/25/04	FIGURE 1.1-13A1																						
SCALE: N.T.S.	APP:	RTV: 0																						

# RAW WATER WELL DRILL RIG PLAN

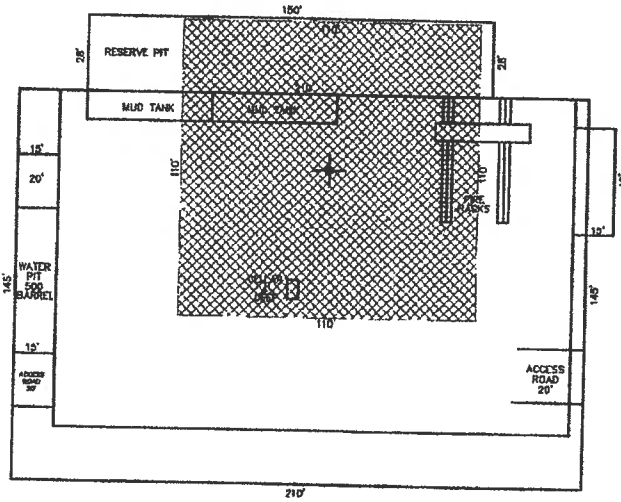


PUBLIC

30' X 30' PERMANENT TIEOVER PAD

				PINE PRAIRIE ENERGY CENTER, LLC			
8	7/1/04	WELP	ISSUED TO PPEC	WELP	TYPICAL RAW WATER WITHDRAWAL WELL SITE DIAGRAM		
REV	DATE	BY	DESCRIPTION	CHK			
PROJECT NO. 447701							
<b>MUSTANG ENGINEERING, L.P.</b> HOUSTON, TEXAS				DRAWN BY: WELP CHECKED BY: WELP SCALE: N.E.S.	DATE: 05/18/04 DATE: 05/18/04	DWG. NO. PPEC	REV. 0

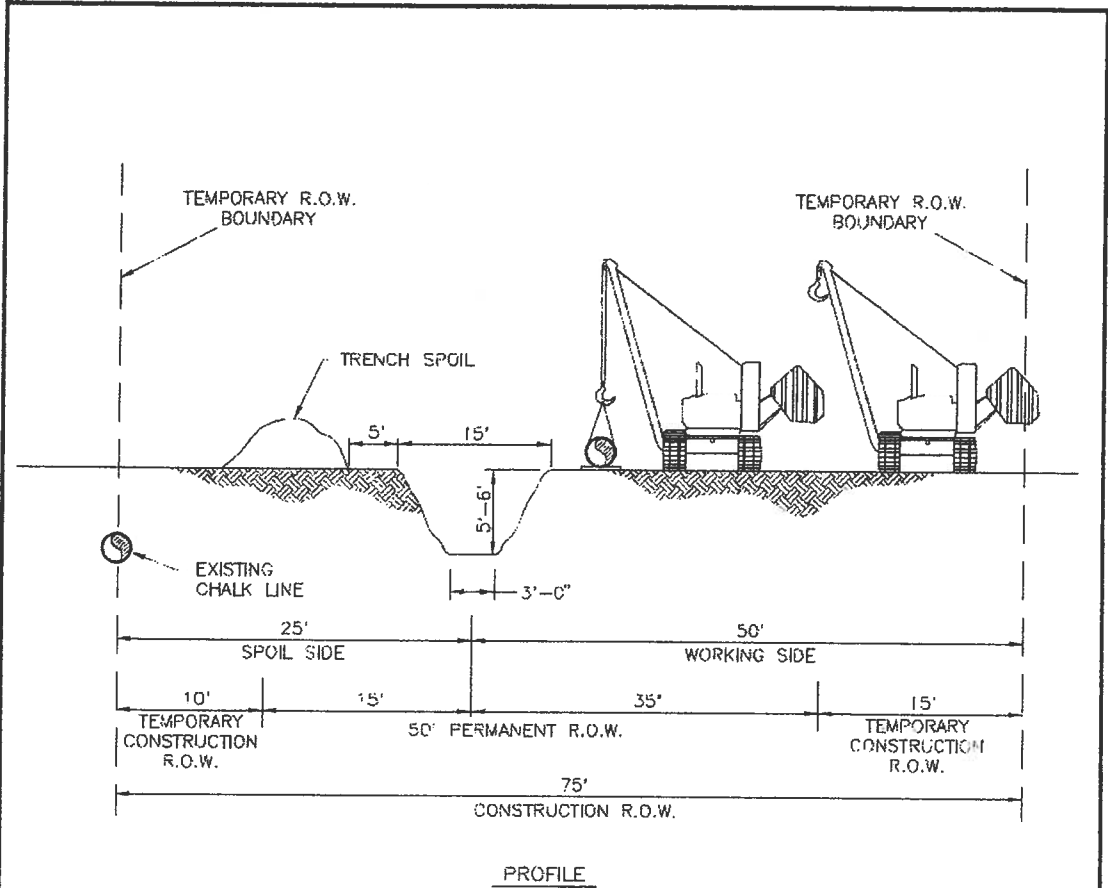
### BRINE DISPOSAL WELL DRILL RIG PLAN



PUBLIC

110' x 110' PERMANENT WORKOVER PAD

				<b>PINE PRAIRIE ENERGY CENTER, LLC</b>			
REV.	DATE	BY	DESCRIPTION		<b>TYPICAL BRINE DISPOSAL WELL SITE DIAGRAM</b>		
PROJECT NO. 447701							
<b>MUSTANG ENGINEERING LP</b> HOUSTON, TEXAS				DRAWN BY: MELP	DATE: 08/16/04	DWG. NO.	REV.
				CHECKED BY: MELP	DATE: 08/16/04	PPEC	<b>0</b>
				SCALE: N.T.S.	APP.		



PROFILE

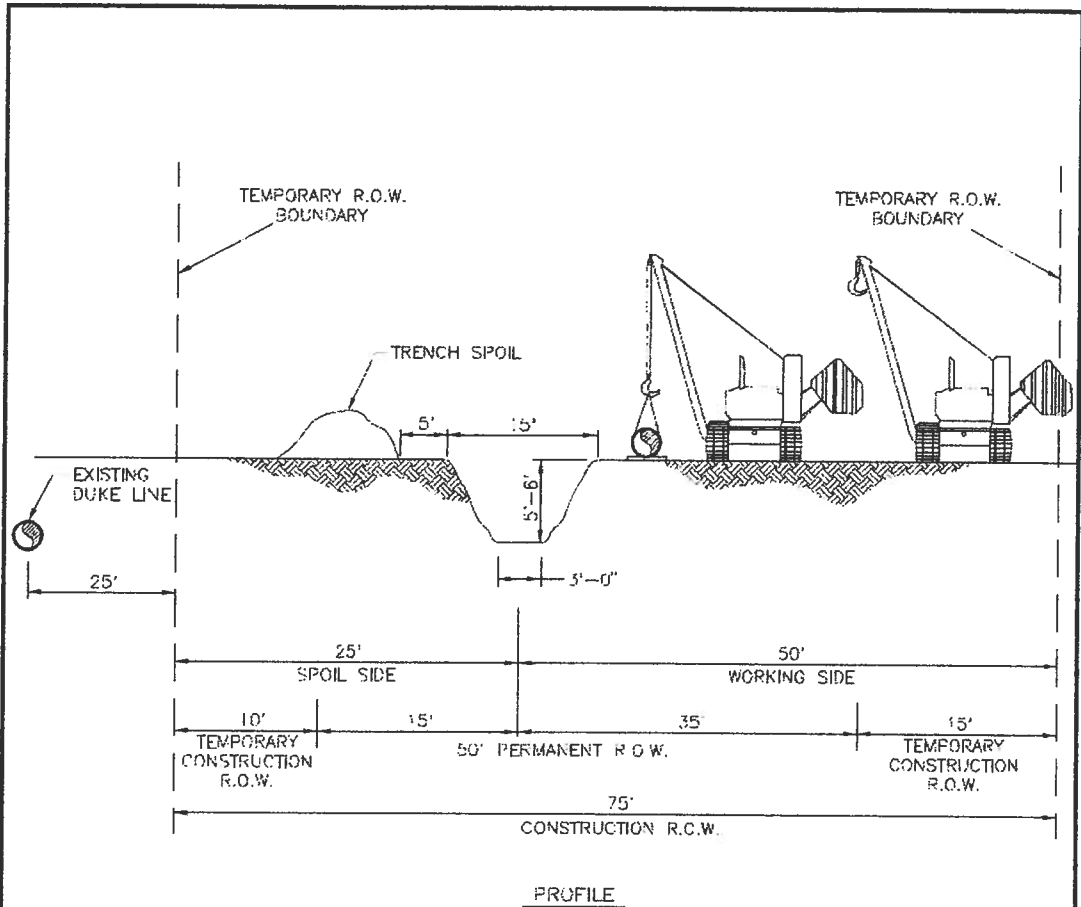
**NOTES:**

1. CONSTRUCTION RIGHT-OF-WAY WILL TYPICALLY BE 75 FEET WIDE CONSISTING OF 50 FEET OF PERMANENT EASEMENT AND 25 FEET OF TEMPORARY WORKSPACE. ADDITIONAL TEMPORARY WORKSPACE WILL BE NECESSARY AT ROAD, RAIL AND RIVER CROSSINGS AND OTHER SPECIAL CIRCUMSTANCES, AS REQUIRED. CERTAIN SITUATIONS MAY REQUIRE A NARROWER WIDTH.
2. LEAVE GAPS IN SPOIL PILES AT OBVIOUS DRAINAGES. DO NOT PUSH UPLAND SOILS INTO CANALS OR WETLANDS.
3. THE OFFSET FROM FOREIGN PIPELINES, WHERE APPLICABLE, WILL BE 25 FEET FROM FOREIGN PIPELINE'S BUT MAY BE INCREASED OR DECREASED DEPENDING ON THE SITE SPECIFIC CONSTRUCTION REQUIREMENTS OR THE FOREIGN PIPELINE/UTILITY BEING PARALLELED

**PARALLELING CHALK LINE**



File No.: <b>FIGURE 3-1</b>	PINE PRAIRIE ENERGY CENTER, LLC. TYPICAL UPLAND & WETLAND WORKSPACE CONSTRUCTION AREA LOUISIANA		
	DRAWN BY HMM/HOU	DATE 10/2008	DWG. NO.
	CHECKED BY HMM/HOU	SCALE N.T.S.	<b>FIGURE 3-1</b>
	APPROVED BY	SHEET 1 OF 1	



**NOTES:**

1. CONSTRUCTION RIGHT-OF-WAY WILL TYPICALLY BE 75 FEET WIDE CONSISTING OF 50 FEET OF PERMANENT EASEMENT AND 25 FEET OF TEMPORARY WORKSPACE. ADDITIONAL TEMPORARY WORKSPACE WILL BE NECESSARY AT ROAD, RAIL AND RIVER CROSSINGS AND OTHER SPECIAL CIRCUMSTANCES, AS REQUIRED. CERTAIN SITUATIONS MAY REQUIRE A NARROWER WIDTH.
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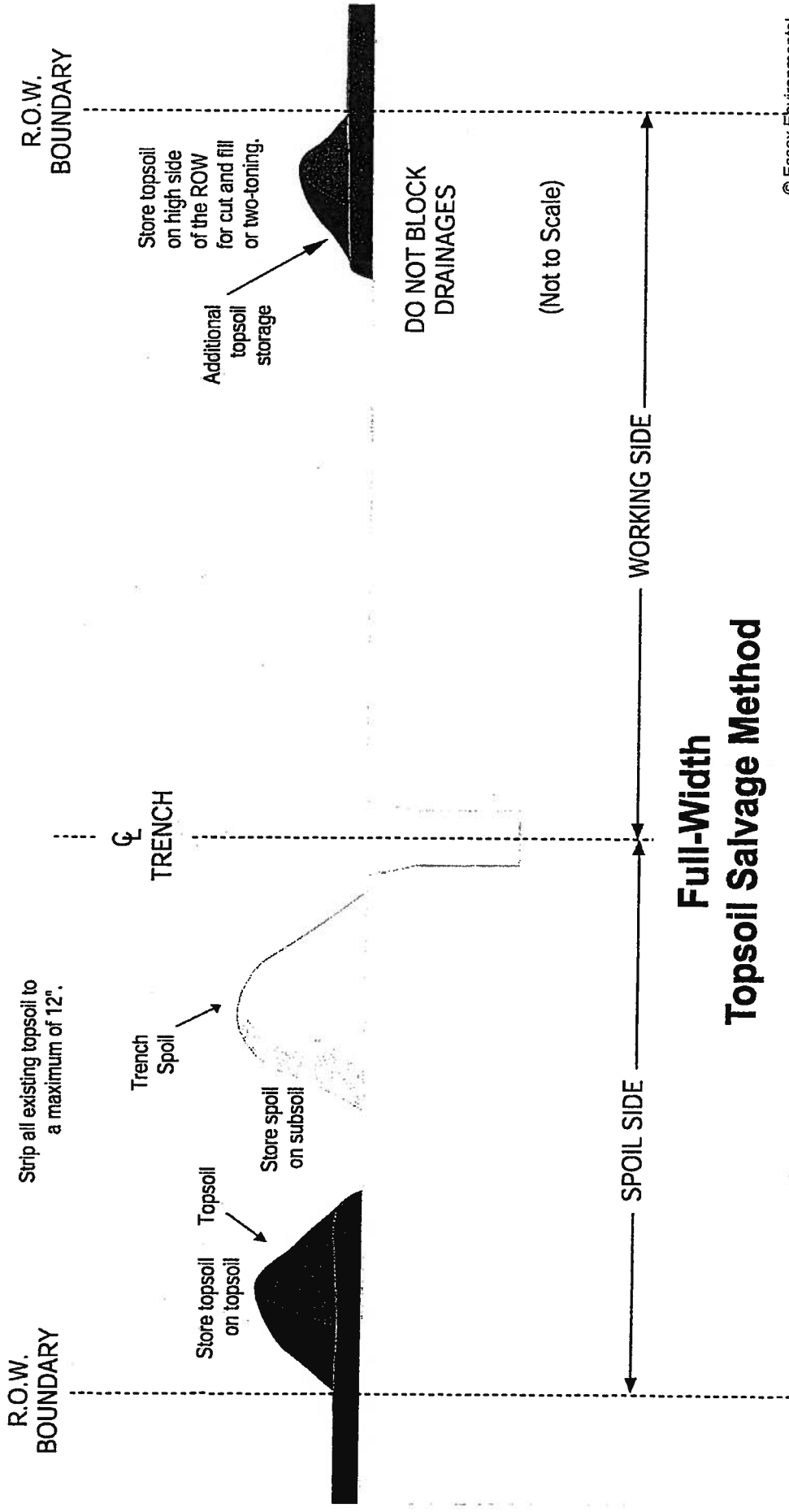
**PARALLELING DUKE LINE**



File No.:  
FIGURE 3-2

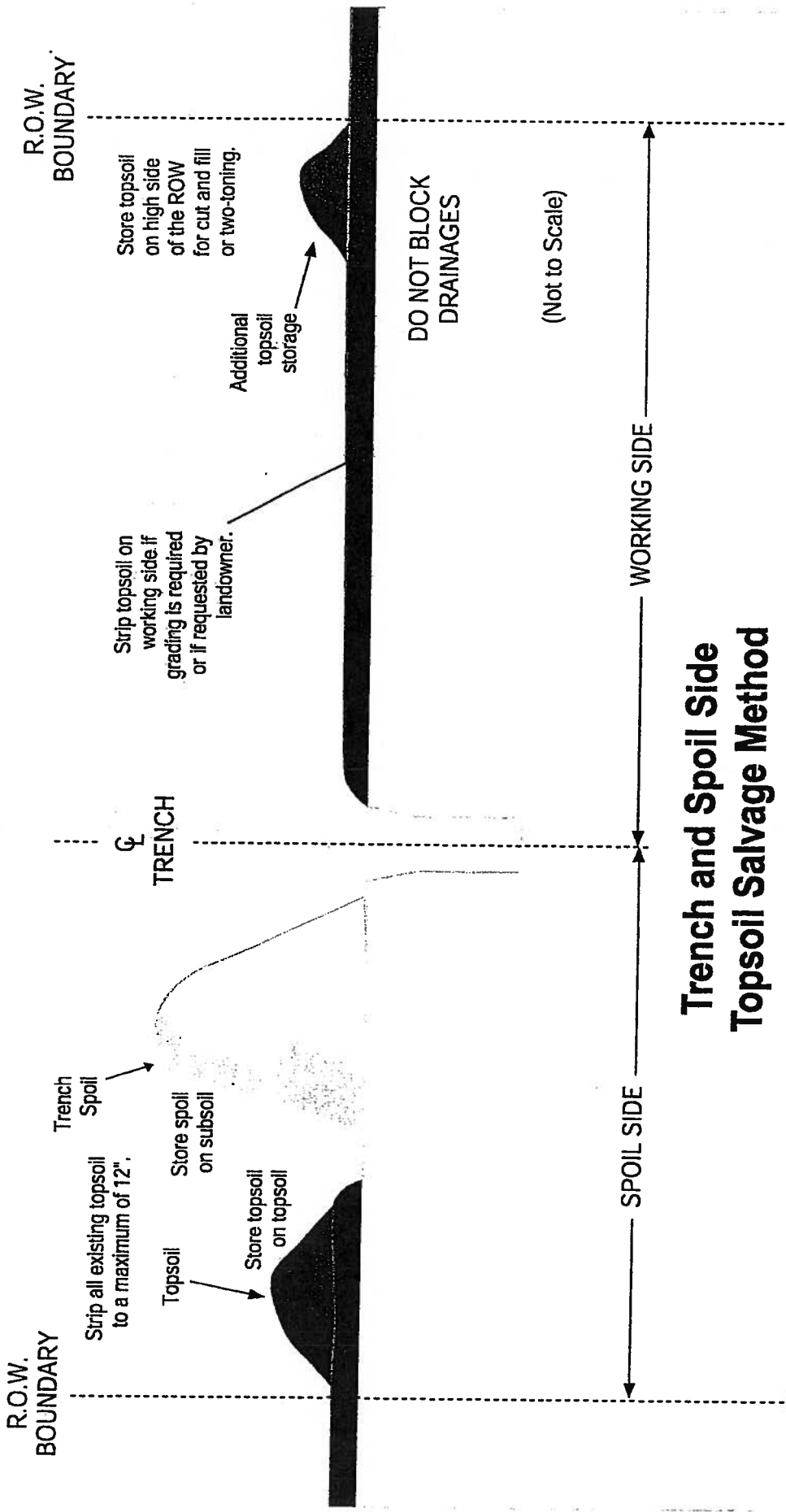
PINE PRAIRIE ENERGY CENTER, LLC.		
TYPICAL UPLAND & WETLAND WORKSPACE CONSTRUCTION AREA		
LOUISIANA		
DRAWN BY	HMM/HOU	DATE 10/2008
CHECKED BY	HMM/HOU	SCALE N.T.S.
APPROVED BY		SHEET 1 OF 1

DWG. NO.  
**FIGURE 3-2**

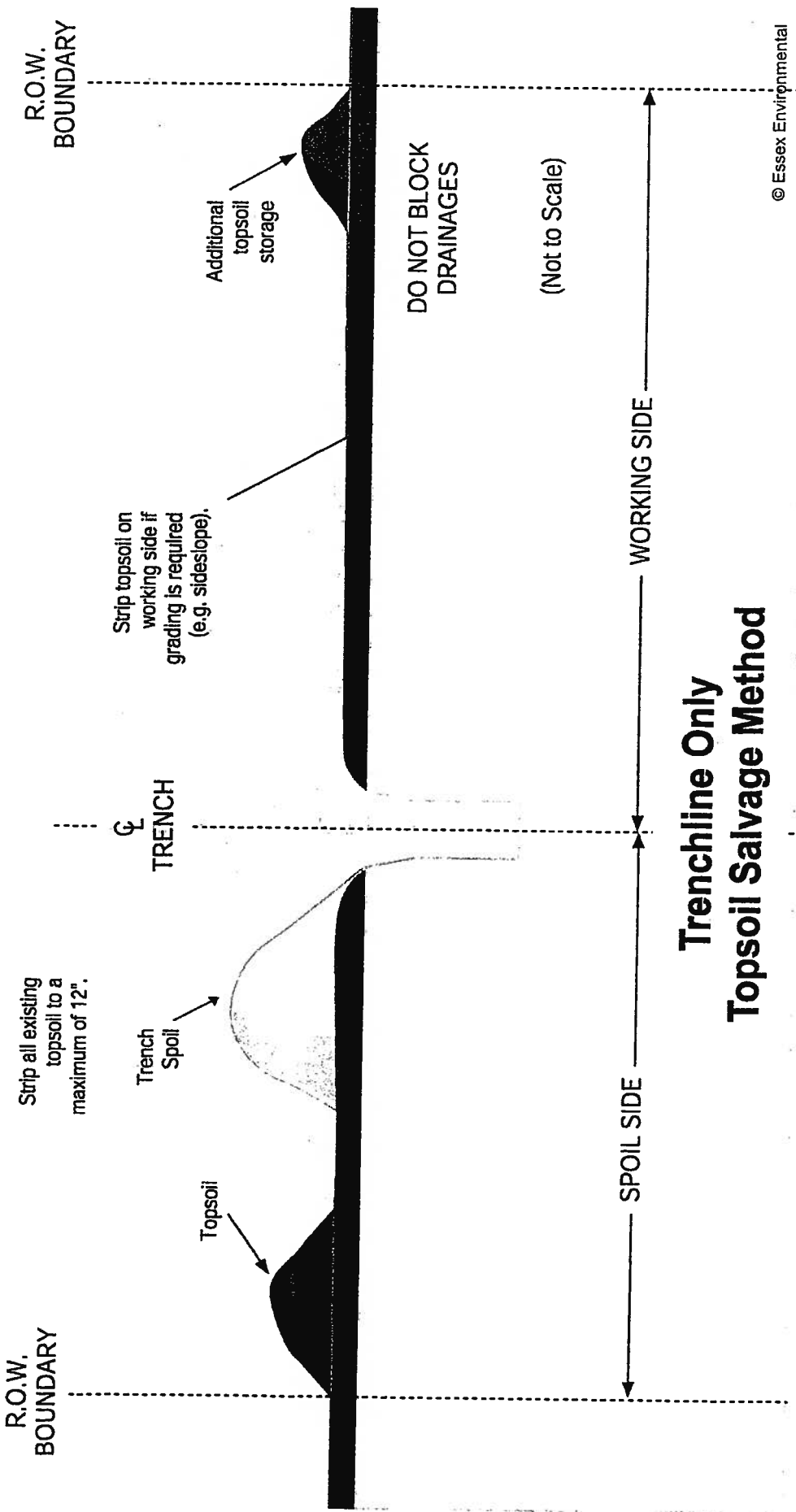


## Full-Width Topsoil Salvage Method





## Trench and Spoil Side Topsoil Salvage Method



R.O.W.  
BOUNDARY

Strip all existing  
topsoil to a  
maximum of 12".

Trench  
Spoil

Topsoil

TRENCH

Strip topsoil on  
working side if  
grading is required  
(e.g. sideslope).

Additional  
topsoil  
storage

R.O.W.  
BOUNDARY

DO NOT BLOCK  
DRAINAGES

(Not to Scale)

WORKING SIDE

SPOIL SIDE

**Trenchline Only  
Topsoil Salvage Method**

**(Wetlands Only)**