

**Hamre, John G.**

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**From:** Lein, Jerry R.  
**Sent:** Wednesday, July 30, 2008 1:38 PM  
**To:** Scovill, Scott  
**Cc:** Marchese, Joe; Rausch, Dick; Mayers, D J; Givens, Phillip; Talmud, Fred; Sowry, Jim; Oberg, Perry; Ashtabula; -Grp-PSC Commissioners; -Grp-PSC Legal; -Grp-PSC Public Utilities; Arkerson, Jim; PhillipsDuane@stanleygroup.com  
**Subject:** FPLE Ashtabula Wind Structures Moves, Case No. PU-08-73  
**Attachments:** 07-25-08 psc-1.pdf; 07-25-08 psc-2.pdf; Pole Move Plan & Profile.pdf; Ashtabula Wind T-line Structure Relocation Summary 30-Jul-08.pdf

Scott:

During administrative discussions this morning, the Commission authorized staff approval of the requested structure changes. Please consider this e-mail to be that approval.

Jerry Lein  
701 328-1035

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**From:** Arkerson, Jim [mailto:Jim.Arkerson@fpl.com]  
**Sent:** Wednesday, July 30, 2008 12:50 PM  
**To:** Lein, Jerry R.  
**Cc:** Scovill, Scott; Marchese, Joe; Rausch, Dick; Mayers, D J; Givens, Phillip; Talmud, Fred; Sowry, Jim; Oberg, Perry; Ashtabula  
**Subject:** RE: FPLE Ashtabula Wind Structures Moves

Dear Mr. Lein,

In accordance with our discussion, I want to assure you that the Structure #89 and #90 moves contained in Mr. Phillips' transmittal of 28-Jul-08 are not associated with any relocation of the Barnes Substation, which is still on the same parcel of land identified in the hearing record. Furthermore, the most recent alignment matches up to the alignment presented at hearing, whereas the first alignment submitted to the Commission did not. (Note: the body of the e-mail erroneously refers to these structures as #88 & #89 although the attachments to Mr. Phillips' e-mail correctly reflect #89 & #90)

The first plan and profile submitted to the Commission on 09-Jul-08 incorrectly located the Barnes Substation deadend structure approximately 250 ft north and 347 east of its actual designed location. The substation and transmission line are being designed by two separate firms (Transmission Line - Stanley Consultants; Barnes Substation - Peak Power Engineering), and, unfortunately, the transmission line engineer was working with outdated coordinates for the deadend.

Because of the erroneous deadend location, the original north-south run of the transmission line along the west side of CR27 stopped at Structure 88, then turned east towards the substation.

87 PU-08-32 Filed: 7/30/2008 Pages: 12  
Structure Relocation Summary and Commission  
Approval of Requested Structure Changes

Due to the span lengths involved, an intermediate pole (Str #89) was required on the east side of CR27 prior to the line's terminus at the Barnes substation deadend (Str #90).

Now, with the Barnes Substation deadend shown in its correct location, which is further south and west than previously assumed, the transmission line now comes one additional span to the south than our previous submittal, to Structure #89, then turns east with a single span into the Barnes Substation deadend. The structure number for the deadend still remains the same as before (Str #90) because there is no longer the need for an intermediate structure on the east side of CR27 between "new" Str #89 and the deadend.

To summarize all of the above, I have attached an annotated graphic of the transmission route presented at hearing to show the difference between the original erroneous submittal and the current proposal for structure locations. I hope this will clear things up and allow the Commission to approve these recent "moves" without a special hearing.

Thank you for your consideration in this matter and as always, please do not hesitate to contact me if further clarification is needed.

Kind regards,

Jim

James N. Arkerson, PE  
Project Engineering Manager  
FPL Energy, LLC  
Office: 561.304.5308  
Cell: 561.371.9197  
Text Msg: [5613719197@mmode.com](mailto:5613719197@mmode.com)

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**From:** Phillips, Duane [mailto:PhillipsDuane@stanleygroup.com]  
**Sent:** Monday, July 28, 2008 9:00 AM  
**To:** jlein@nd.gov  
**Cc:** Arkerson, Jim  
**Subject:** FW: FPLE Ashtabula Wind Structures Moves

Mr. Lein,

Please accept my sincere apologies. Sheet 1 explanation should read that "These two (2) structures were moved 19' and 12' north (not south).

Please contact me with any questions or comments that you might have.

Sincerely,

Stanley Consultants, Inc.

Duane Phillips  
Project Manager

(W) 303.649.7831  
(C) 303.588.7828

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**From:** Phillips, Duane  
**Sent:** Friday, July 25, 2008 3:57 PM  
**To:** 'jlein@nd.gov'  
**Cc:** 'Arkerson, Jim'  
**Subject:** FPLE Ashtabula Wind Structures Moves

Good Morning,

As the design engineering firm and on behalf of FPL Energy, I am respectfully submitting the attached Change Summary drawings associated with the Ashtabula Wind 230kV transmission line, as well as an updated copy of the plan and profile drawings. This represents proposed changes to the transmission line alignment from what was submitted at the PSC Hearing.

Once construction staking was accomplished, there were several changes to the proposed line that were requested based on updated information. In the attached drawings, the new locations indicate what is being proposed - or what the changes are. We have also added several dimensions to indicate distances of the changes for each section that has changed, as well as notes to explain each change that is being proposed.

#### Summary & Explanation of Changes

Sheet 1                      Structures 43 & 44                      These two (2) structures was moved 19' and 12' south in order to better accommodate land owner concerns regarding farming activities and field access

Sheet 2                      Structures 88 - 89                      These two (2) structures were moved based on new information regarding the physical location of the Barnes Substation.

Those are the proposed changes to the line based on updated information that we have since staking activities have commenced. We respectfully submit these changes to the North Dakota PSC for their review and concurrence as we move forward with construction activities.

Please contact me with any questions or comments that you have regarding these drawings or any subsequent notification of potential changes. Thank you for your consideration!

Sincerely,

Stanley Consultants, Inc

Duane Phillips  
Project Manager

(W) 303.649.7831  
(C) 303.588.7828

Stanley Consultants, Inc  
9200 E Mineral Ave, Suite 400  
Englewood, CO 80112

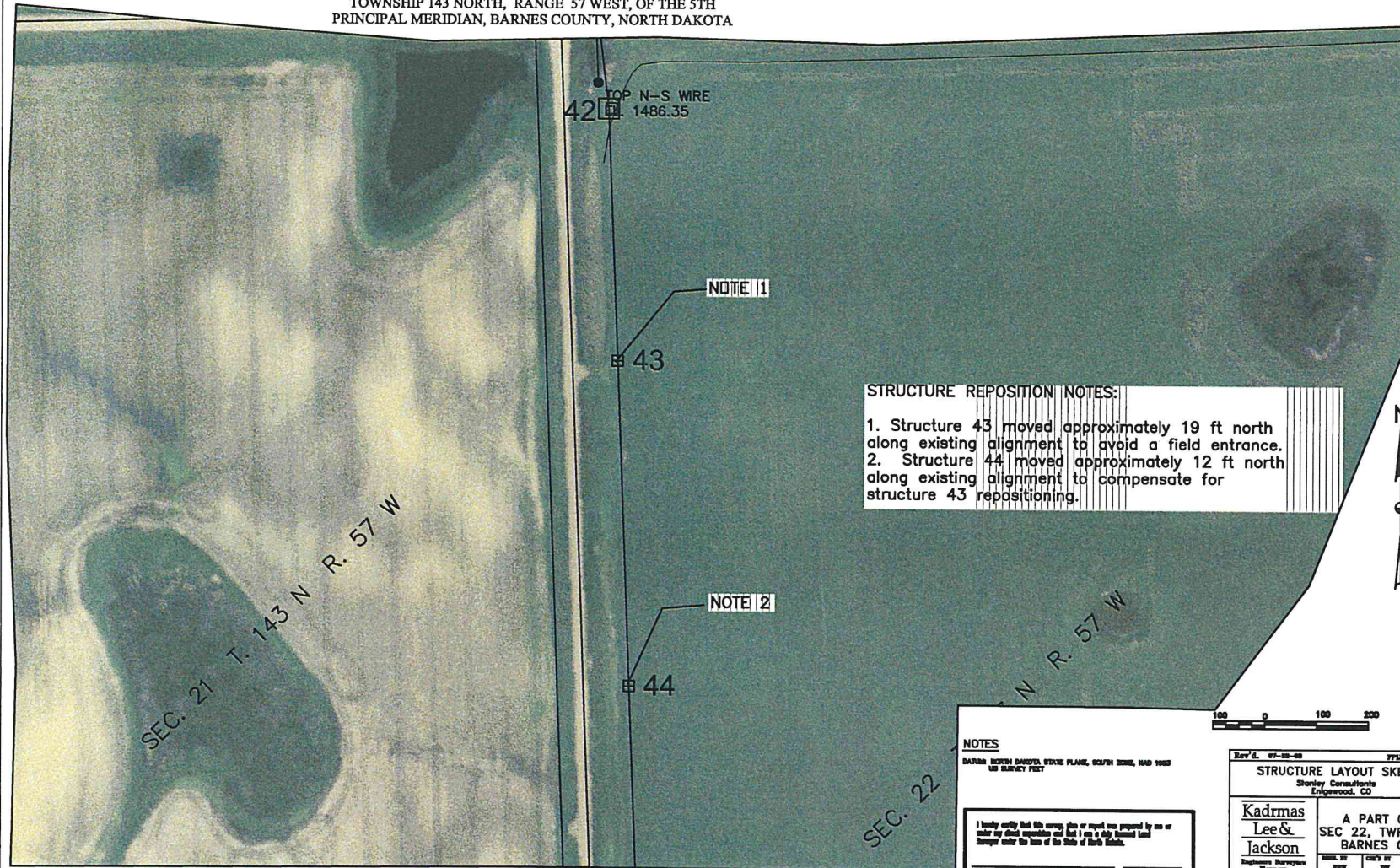
phillipsduane@stanleygroup.com

<<07-25-08 psc-1.pdf>> <<07-25-08 psc-2.pdf>> <<Pole Move Plan & Profile.pdf>>

# STRUCTURE LAYOUT SKETCH

FOR: Stanley Consultants

THAT PART OF NW 1/4 OF SECTION 22,  
TOWNSHIP 143 NORTH, RANGE 57 WEST, OF THE 5TH  
PRINCIPAL MERIDIAN, BARNES COUNTY, NORTH DAKOTA



NOTE 1

43

STRUCTURE REPOSITION NOTES:  
1. Structure 43 moved approximately 19 ft north along existing alignment to avoid a field entrance.  
2. Structure 44 moved approximately 12 ft north along existing alignment to compensate for structure 43 repositioning.

NOTE 2

44

SEC. 21 T. 143 N. R. 57 W

SEC. 22

**NOTES**  
BASED ON NORTH DAKOTA STATE PLANE, NORTH ZONE, NAD 1983 US SURVEY FEET  
  
I hereby certify that this survey, plan or report was prepared by me or under my direct supervision and that I am a duly Licensed Land Surveyor under the laws of the State of North Dakota.  
  
Date: 8/26/03, North Dakota State No. 4322

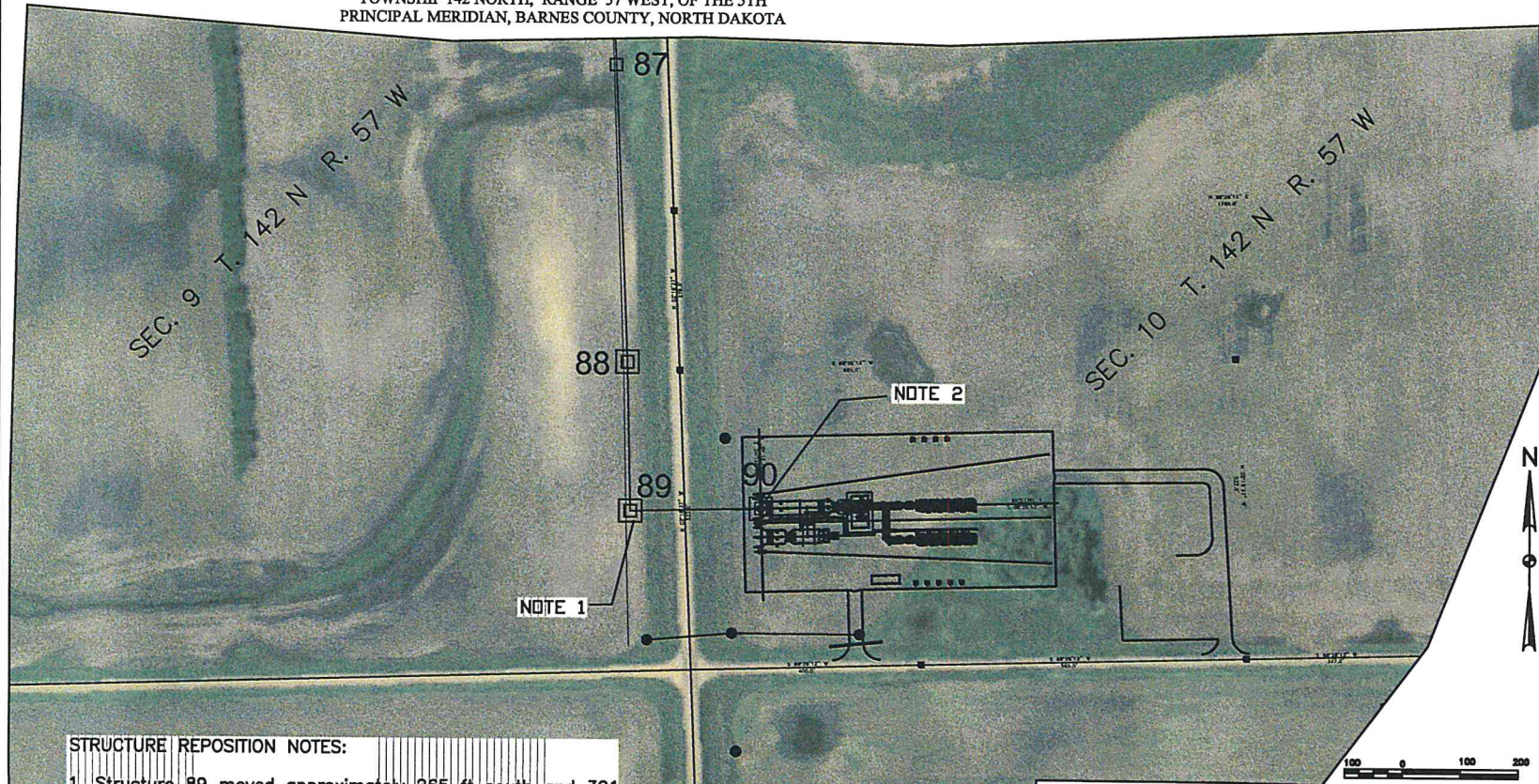


Rev'd. 07-20-03	FP&M Acknowledged 08/07/03
<b>STRUCTURE LAYOUT SKETCH</b>	
Stanley Consultants Englewood, CO	
Sheet No. <b>7</b>	
A PART OF NW 1/4 SEC 22, TWP 143, RGE 57 BARNES COUNTY, ND	
Kadmas Lee & Jackson	Engineers Surveyors Plumbers
DATE: 07-20-03	PROJECT NO.: 07-03-03
A PROFESSIONAL FIRM REGISTERED IN THE STATE OF NORTH DAKOTA Kadmas, Lee & Jackson 2003	

# STRUCTURE LAYOUT SKETCH

FOR: Stanley Consultants

THAT PART OF SE 1/4 OF SECTION 9 AND SW 1/4 OF SECTION 10,  
TOWNSHIP 142 NORTH, RANGE 57 WEST, OF THE 5TH  
PRINCIPAL MERIDIAN, BARNES COUNTY, NORTH DAKOTA



## STRUCTURE REPOSITION NOTES:

1. Structure 89 moved approximately 265 ft south and 301 ft west of previous location to correct a layout error and align with the Barnes Substation deadend (Structure 90).
2. The total number of structures (90) still agrees with the hearing record.

## NOTES

DRAWN NORTH DAKOTA STATE PLANE, SOUTH ZONE, NAD 83  
US SURVEY FEET

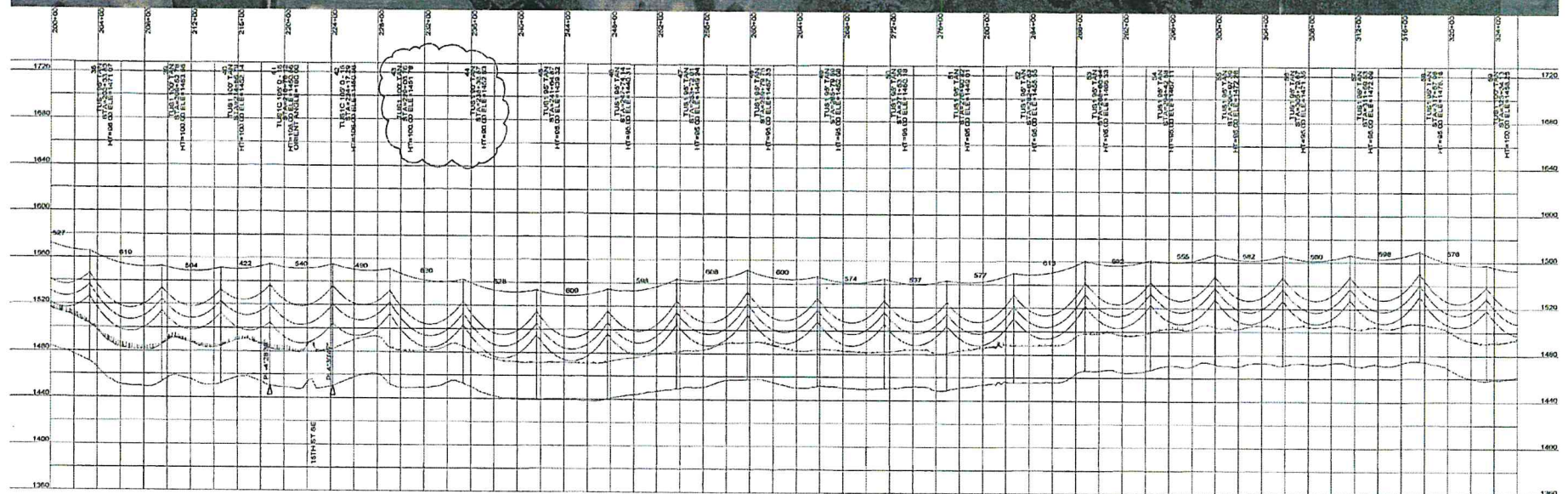
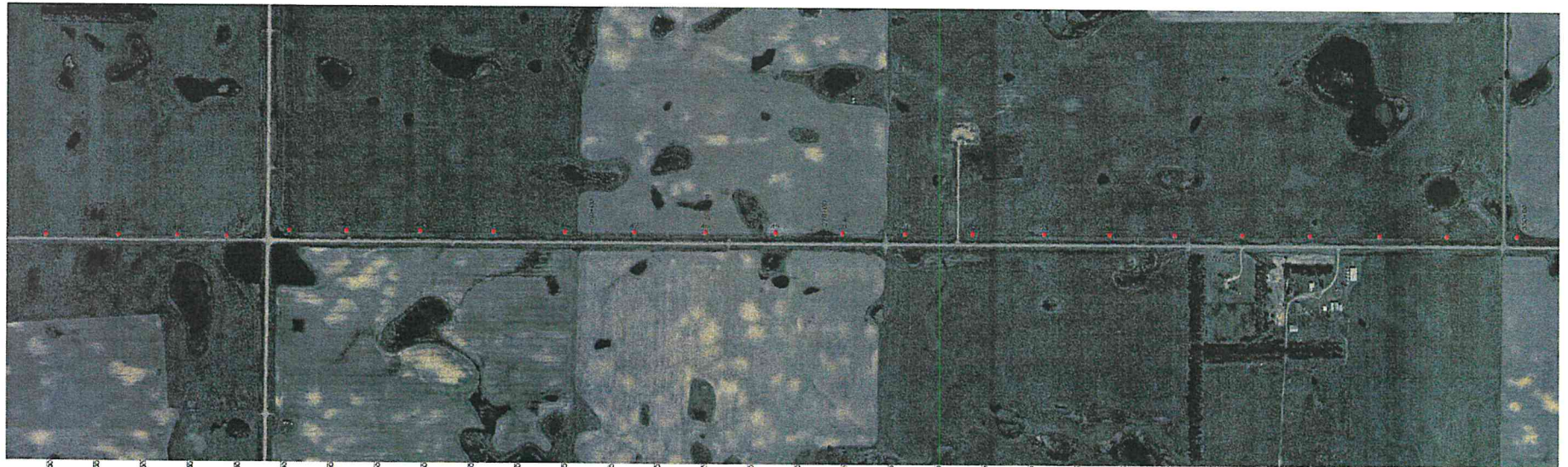
I hereby certify that this survey plan or report was prepared by me or under my direct supervision and that I am a duly Licensed Land Surveyor under the laws of the State of North Dakota.

Don G. Steen, North Dakota License No. 4923 Date

Rev'd. 07-25-03		PP18 Addendum EDDY 7-14	
STRUCTURE LAYOUT SKETCH			Sheet No.
Stanley Consultants Englewood, CO			7
Kadmas Lee & Jackson		A PART OF SEC 9 & 10, TWP 142, RGE 57 BARNES COUNTY, ND	
Engineer	DATE	CHECKED BY	PROJECT NO.
Don G. Steen	07-25-03	Don G. Steen	07-25-03
24/Power/0000118 PP18-INTERNATIONAL PRTS ONLY 0000111007/002-000			
Kadmas, Lee & Jackson 2003			







DESIGN CONDITIONS:  
 6.528° CORRAL; 24 FIBER  
 20% RTB @ -20 DEGREE P, INITIAL 20% RTB @ -20 DEGREE P, INITIAL  
 CLEARANCE LINE: 27

1372 AC/SR 45/7 "BITTERN"

REV	DATE	APR	DESCRIPTION	TMT	DFTM
0	08/27/08	MJF	ISSUED FOR CONSTRUCTION		

**Stanley Consultants INC.**  
 9250 E. MINERAL AVE.  
 SUITE 400  
 ENGLEWOOD, CO 80112

A STANLEY GROUP COMPANY  
 ENGINEERING, ENVIRONMENTAL AND  
 CONSTRUCTION SERVICES - WORLDWIDE

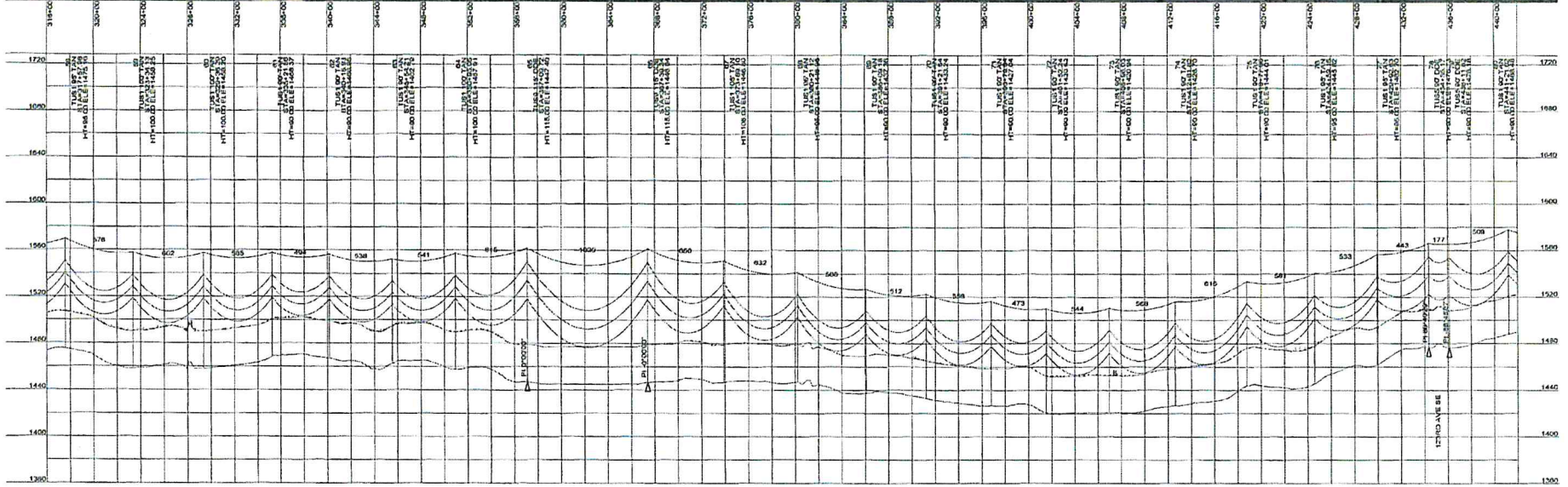
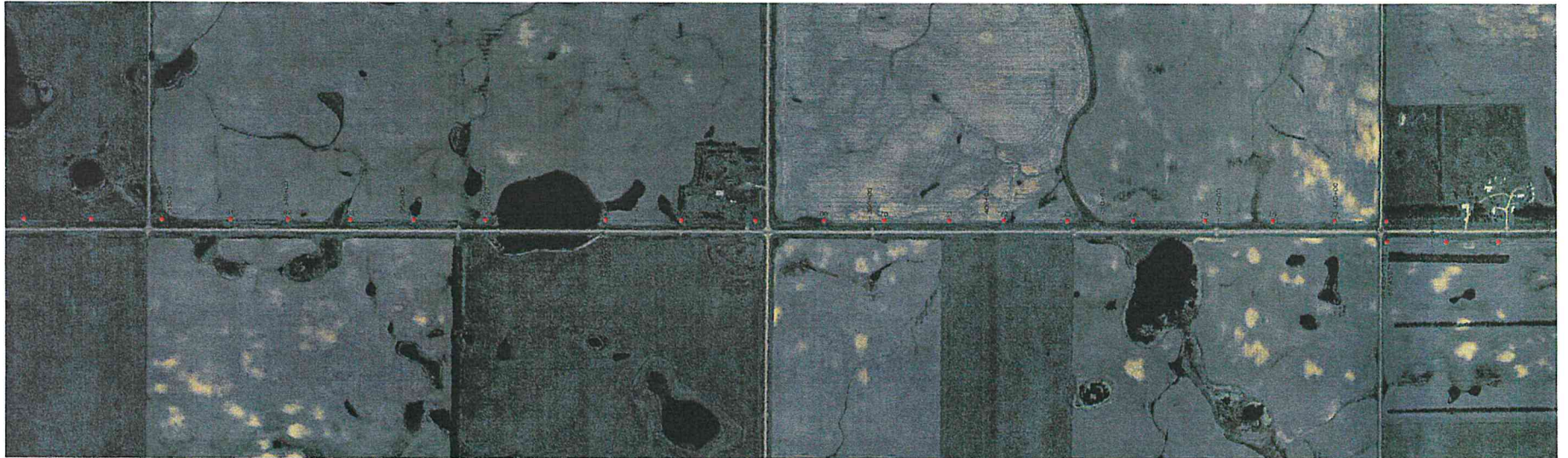
DESIGNED: T. FRANCIS  
 DRAWN: J. FRANCIS  
 CHECKED: H. OLLABOUGH  
 APPROVED: M. JURGEMEYER  
 APPROVED  
 DATE: 05/05/08

**FPL ENERGY**  
 JUNO BEACH, FL

450.0 FT. HORIZ SCALE  
 40.0 FT. VERT SCALE

**ASHTABULA WIND, LLC 230KV LINE**

PAGE 3/5



DESIGN CONDITIONS  
 0.528" DRUM, 24 FIBER  
 20% RTB @ 20 DEGREES F, INITIAL  
 CLEARANCE LINE: 30'

1272 ACGR 457' 781 FT EIRB  
 20% RTB @ 20 DEGREES F, INITIAL  
 CLEARANCE LINE: 30'

**FOR REFERENCE ONLY**

REV	DATE	APP	DESCRIPTION	DFTM
0	06/27/09	MFJ	ISSUED FOR CONSTRUCTION	TJF

**Stanley Consultants Inc.**  
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 ENGINEERING, ENVIRONMENTAL AND  
 CONSTRUCTION SERVICES - WORLDWIDE

9200 E. MERRILL AVE.  
 SUITE 400  
 ENGLEWOOD, CO 80112

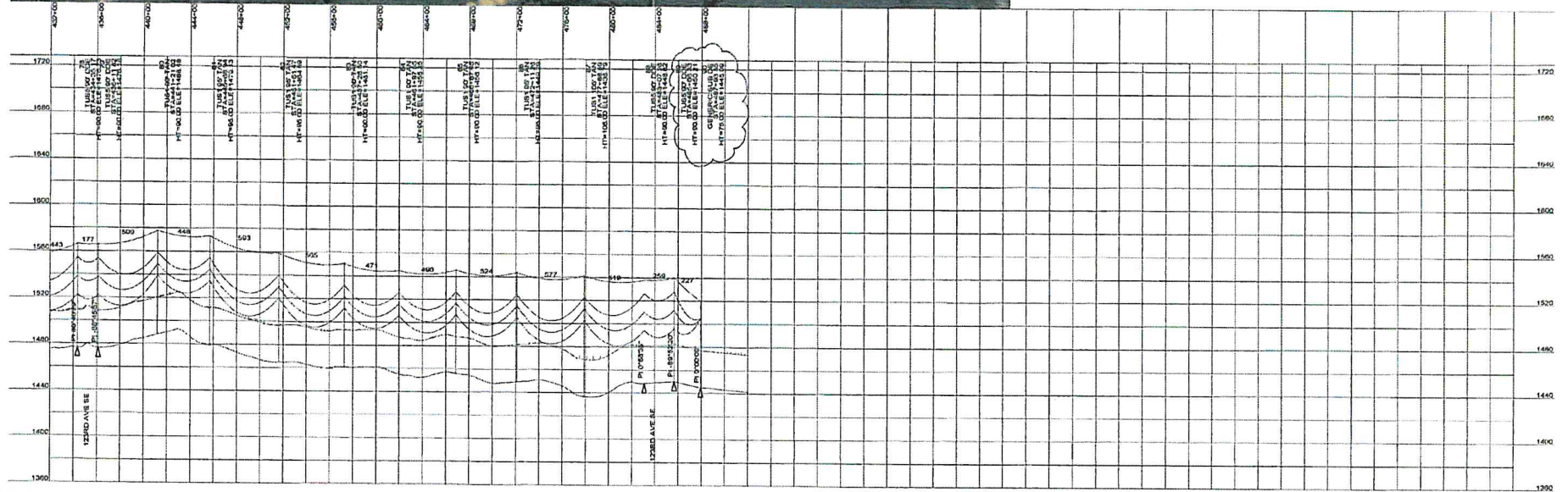
DESIGNED T. FRANCIS  
 DRAWN T. FRANCIS  
 CHECKED H. DILLABOUGH  
 APPROVED M. JURGENBYER  
 APPROVED  
 DATE 09/06/09

**FPL ENERGY**  
**JUNO BEACH, FL**

400 0 FT. HORIZ. SCALE  
 40 0 FT. VERT. SCALE

**ASHTABULA WIND, LLC 230KV LINE**

PAGE 4/5



DESIGN CONDITIONS:  
 0.52% GRADE, 24 FEET  
 20% RTR @ 30 DEGREES F, INITIAL  
 CLEARANCE LINE: 30'

1372 ACER 457 "BITTERS"  
 20% RTR @ 30 DEGREES F, INITIAL

**FOR REFERENCE ONLY**

REV	DATE	APP	DESCRIPTION	DFT
0	06/27/08	MPJ	ISSUED FOR CONSTRUCTION	TMF

**Stanley Consultants INC**  
 A STANLEY GROUP COMPANY  
 ENGINEERING, ENVIRONMENTAL AND  
 CONSTRUCTION SERVICES - WORLDWIDE

9200 E. MINERAL AVE.  
 SUITE 400  
 ENGLEWOOD, CO 80112

DESIGNED T. FRANCIS  
 DRAWN T. FRANCIS  
 CHECKED H. DILLABOUGH  
 APPROVED M. JURGEMEYER  
 APPROVED  
 DATE 06/06/08

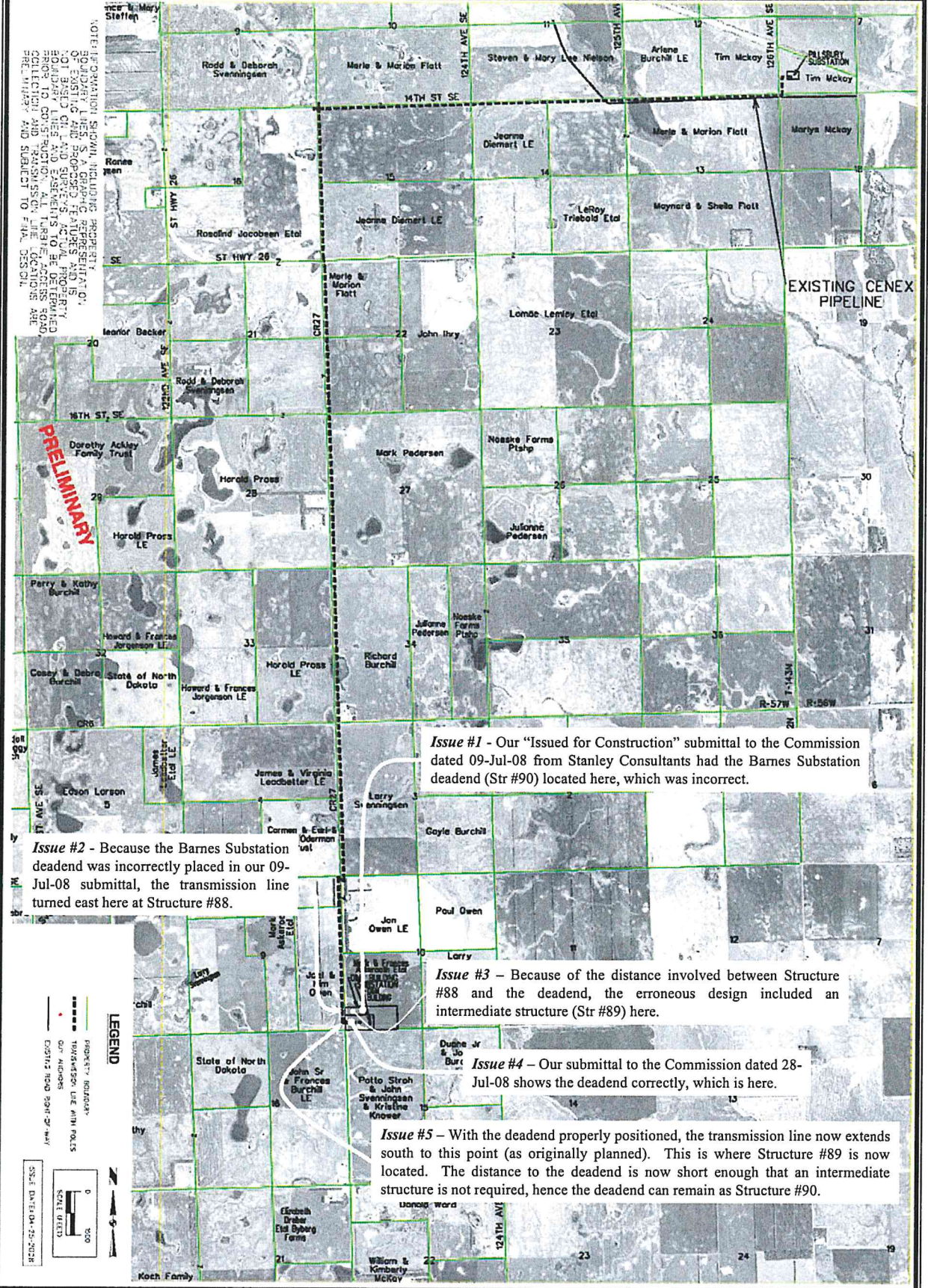
**FPL ENERGY**  
 JUNO BEACH, FL

ASHTABULA WIND, LLC 230KV LINE

400.0 FT. HORIZ. SCALE  
 40.0 FT. VERT. SCALE

NORTH

PAGE 5/5



NOT RECOMMENDATION. SHOWN INCLUDING PROPOSED TRANSMISSION LINE AND DEADEND. THIS IS NOT A BASIS OF LIABILITY AND DOES NOT GUARANTEE THE ACCURACY OF THE INFORMATION. THE USER SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF THE INFORMATION AND SUBJECT TO FIELD SURVEY.

PRELIMINARY

**Issue #1** - Our "Issued for Construction" submittal to the Commission dated 09-Jul-08 from Stanley Consultants had the Barnes Substation deadend (Str #90) located here, which was incorrect.

**Issue #2** - Because the Barnes Substation deadend was incorrectly placed in our 09-Jul-08 submittal, the transmission line turned east here at Structure #88.

**Issue #3** - Because of the distance involved between Structure #88 and the deadend, the erroneous design included an intermediate structure (Str #89) here.

**Issue #4** - Our submittal to the Commission dated 28-Jul-08 shows the deadend correctly, which is here.

**Issue #5** - With the deadend properly positioned, the transmission line now extends south to this point (as originally planned). This is where Structure #89 is now located. The distance to the deadend is now short enough that an intermediate structure is not required, hence the deadend can remain as Structure #90.

**LEGEND**

- PROPERTY BOUNDARIES
- TRANSMISSION LINE WITH POLES
- EXISTING ROADS
- EXISTING ROAD RIGHT-OF-WAY

SCALE: DATE: 04-25-2008

070775 Sheet 1 of 1		<b>FPL ENERGY - ASHTABULA WIND ENERGY TRANSMISSION LINE</b> <b>OVERALL SITE PLAN</b> BARNES COUNTY, NORTH DAKOTA	<table border="1" style="font-size: 8px;"> <tr> <td>1</td> <td>CREATED I &amp; E</td> <td>DATE: 07-08</td> <td>BY: JMK</td> </tr> <tr> <td>2</td> <td>ADDED CENEX PIPELINE</td> <td>DATE: 02-15-08</td> <td>BY: DW</td> </tr> <tr> <td>3</td> <td>EXTENDED LINE INTO SEC 18-14-36</td> <td>DATE: 02-15-08</td> <td>BY: DW</td> </tr> </table>	1	CREATED I & E	DATE: 07-08	BY: JMK	2	ADDED CENEX PIPELINE	DATE: 02-15-08	BY: DW	3	EXTENDED LINE INTO SEC 18-14-36	DATE: 02-15-08	BY: DW
	1	CREATED I & E	DATE: 07-08	BY: JMK											
	2	ADDED CENEX PIPELINE	DATE: 02-15-08	BY: DW											
3	EXTENDED LINE INTO SEC 18-14-36	DATE: 02-15-08	BY: DW												
<b>SNYDER &amp; ASSOCIATES</b> 1751 MADISON AVENUE COUNCIL BLUFFS, IOWA 51503 712-322-3222		AUSTIN, IA 51240-8888 AUSTIN, IA 51240-8888 CEDAR RAPIDS, IA 52401-3222	WATYDAL, ND 58202-8888 WATYDAL, ND 58202-8888 ST. JOSEPH, MO 64501-3222												
Project No. 1070775		Sheet 1 of 1													