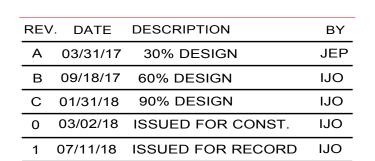
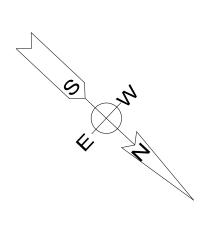
PERSIMMON CREEK WIND PROJECT OKLAHOMA WOODWARD COUNTY







RECORD DRAWING DRAWINGS ARE BASED UPON CONSTRUCTION CONTRACTOR REDLINES WHICH HAVE NOT BEEN FIELD VERIFIED BY ENGINEER OF RECORD



3350 38TH AVENUE SOUTH FARGO, NORTH DAKOTA 58104 Ulteig PHONE: 701.280.8500 FAX: 701.237.3191 WWW.ULTEIG.COM

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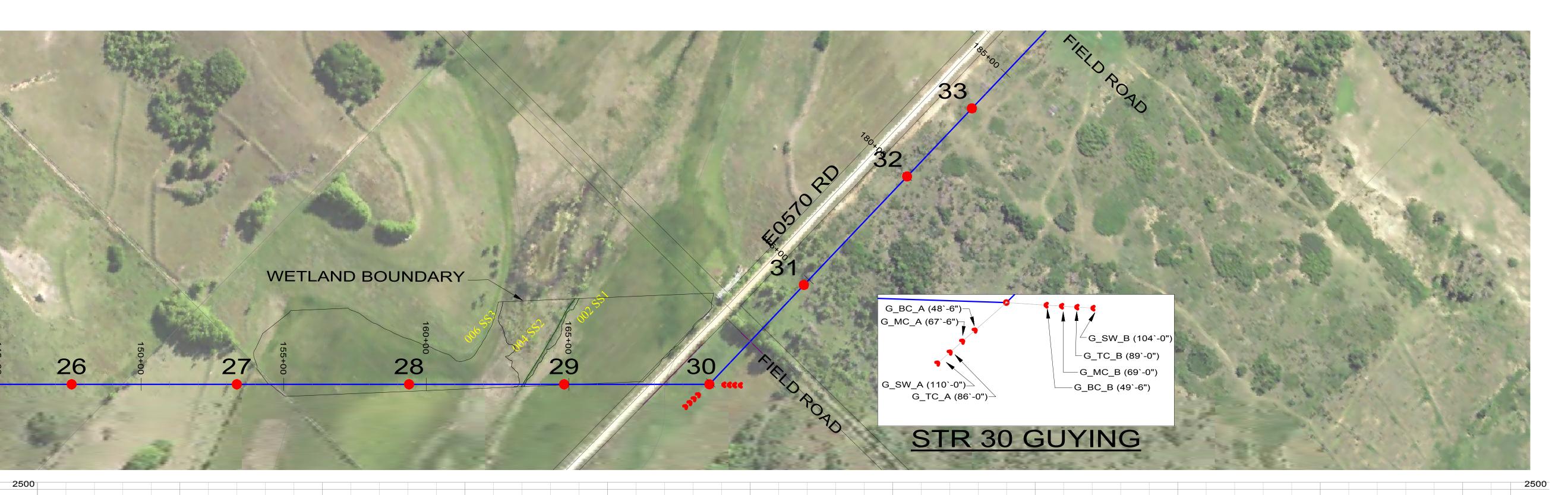
OKLAHOMA FIRM LICENSE: 5556
DESIGN BY: IJO
DRAWN BY: JEP
APPROVED BY: BKF PROJECT NUMBER: 16.01958

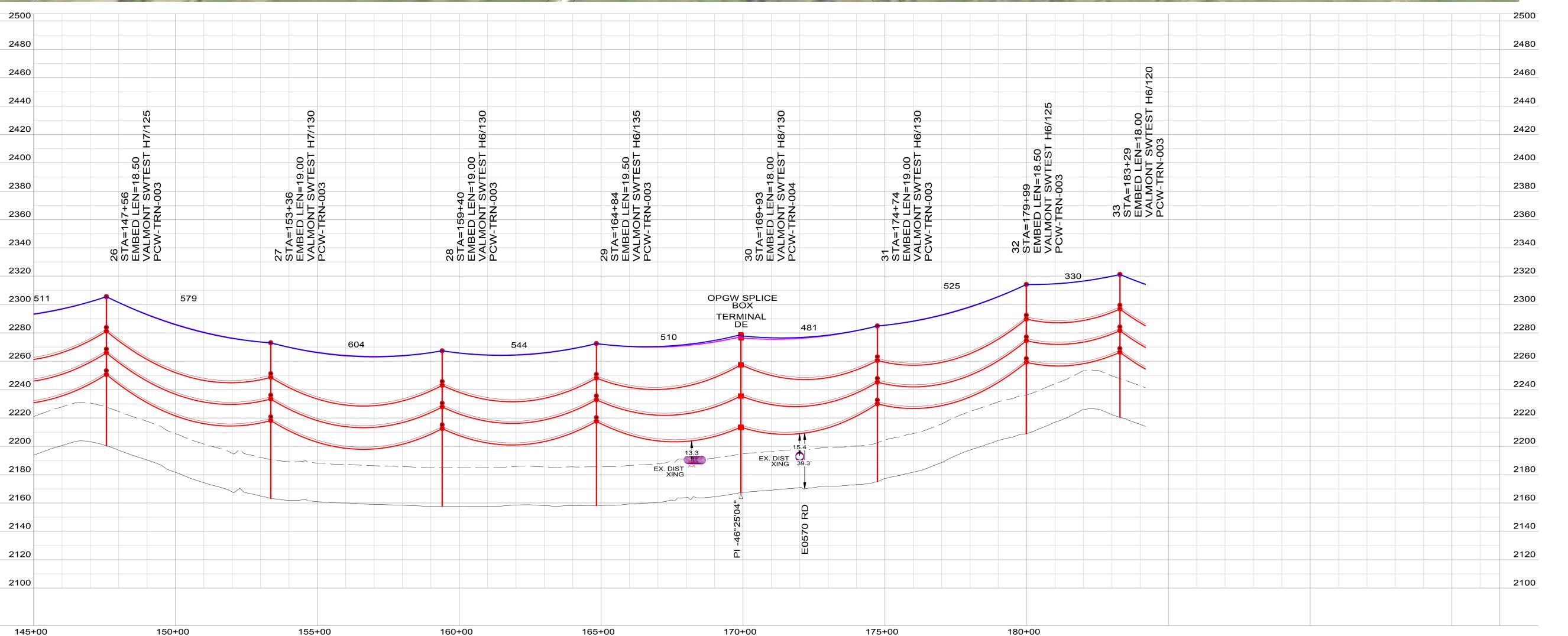
345KV TRANSMISSION LINE PLAN AND PROFILE

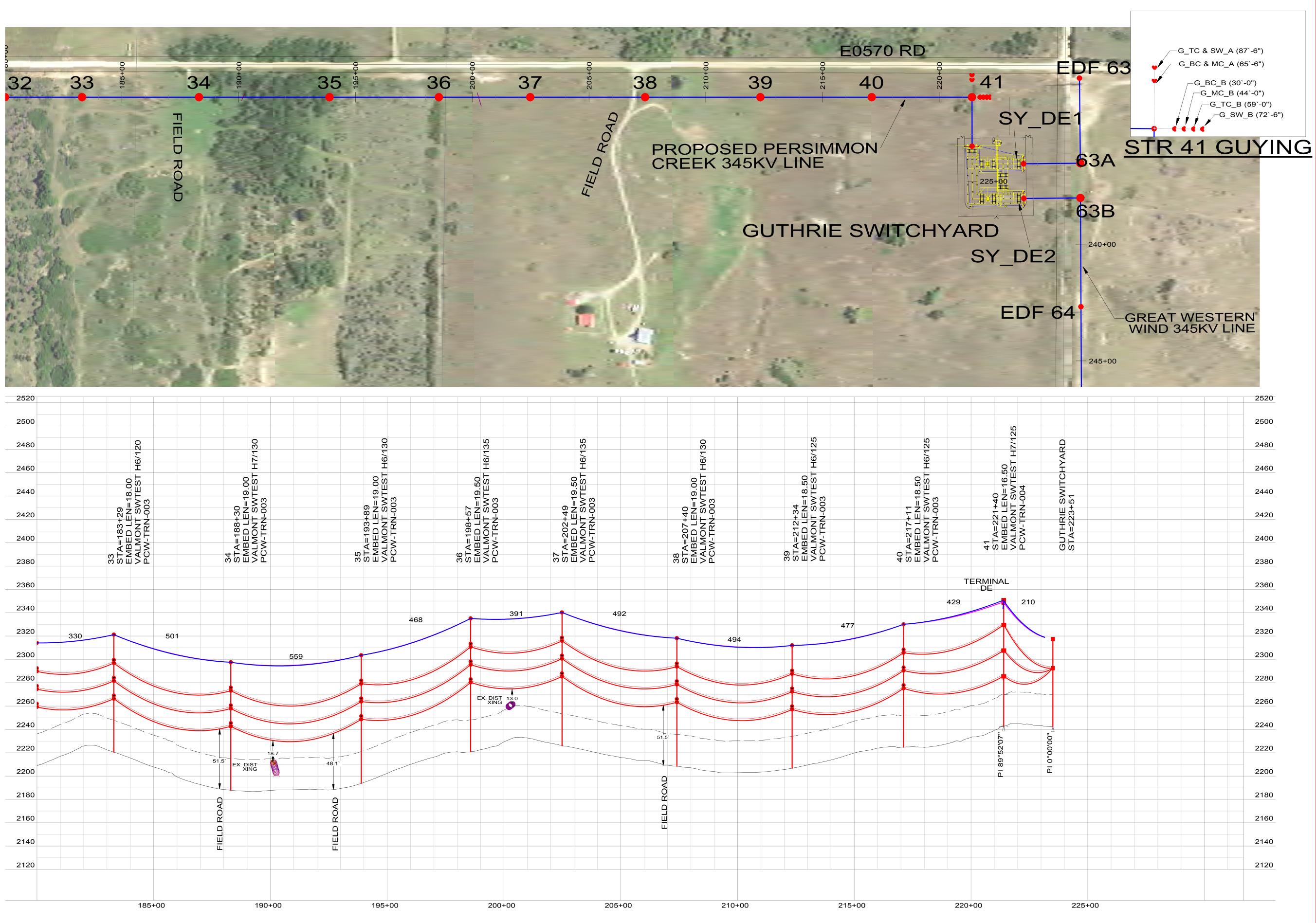
STR 26 TO STR 33

**REVISION:** PCW-TRN-PP5

200.0 FT. HORIZ. SCALE



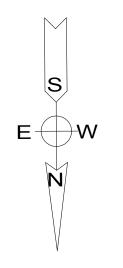




PERSIMMON CREEK WIND PROJECT OKLAHOMA WOODWARD COUNTY

RE	/. DATE	DESCRIPTION	BY
Α	03/31/17	30% DESIGN	JEP
В	09/18/17	60% DESIGN	IJO
С	01/31/18	90% DESIGN	IJO
0	03/02/18	ISSUED FOR CONST.	IJO
1	07/11/18	ISSUED FOR RECORD	IJO





**RECORD DRAWING** DRAWINGS ARE BASED UPON CONSTRUCTION CONTRACTOR REDLINES WHICH HAVE NOT BEEN FIELD VERIFIED BY ENGINEER OF RECORD



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OKLAHOMA FIRM LICENSE: 5556 DESIGN BY: IJO DRAWN BY: JEP APPROVED BY: BKF PROJECT NUMBER: 16.01958

345KV TRANSMISSION LINE PLAN AND PROFILE

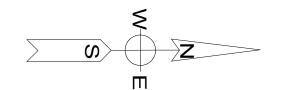
200.0 FT. HORIZ. SCALE STR 33 TO STR GUTHRIE SWITCHYARD PCW-TRN-PP6



PERSIMMON CREEK WIND PROJECT OKLAHOMA WOODWARD COUNTY

RE	/. DATE	DESCRIPTION	BY
Α	03/31/17	30% DESIGN	JEP
В	09/18/17	60% DESIGN	IJO
С	01/31/18	90% DESIGN	IJO
0	03/02/18	ISSUED FOR CONST.	IJO
1	07/11/18	ISSUED FOR RECORD	IJO





# OBSOLETE

RECORD DRAWING

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OKLAHOMA FIRM LICENSE: 5556
DESIGN BY: IJO
DRAWN BY: JEP
APPROVED BY: BKF
PROJECT NUMBER: 16.01958

345KV TRANSMISSION LINE PLAN AND PROFILE

> STR EDF 63 TO STR EDF 64

> > **REVISION:**

DWG #:
PCW-TRN-PP7

40 0 FT

200.0 FT. HORIZ. SCALE

2360

2340

2320

2300

2280

2260

2240

2220

2200

2180

2360

2340

2320

2300

2280

2260

2240

2220

2200

2180

225+00

230+00

235+00

240+00

245+00

250+00

## Schedule JH-6 - Page 32 of 35

# PERSIMMON CREEK WIND PROJECT WTG SPREAD FOOTING FOUNDATIONS

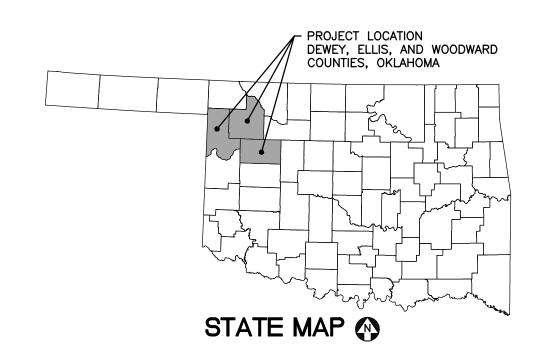
DEWEY, ELLIS, AND WOODWARD COUNTIES, **OKLAHOMA** 

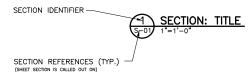
## **TURBINE MODELS**

TURBINE ID	GEOTECH		OORDINATES 83 Zone 14	TURBINE	DWG. NO.	
	ID	Х	Υ	MODEL		
WTG-05	5	463035	3998243	2.5-116	S-01	
WTG-06	6	463391	3998278	2.5-116	S-01	
WTG-07	7	463859	3998622	2.5-116	S-01	
WTG-08	8	464190	3998632	2.5-116	S-01	
WTG-09	9	464520	3998625	2.5-116	S-01	
WTG-12	12RS-NE	465803	3998927	2.5-116	S-01	
WTG-13	13R	466210	3998979	2.5-116	S-01	
WTG-14	14	466624	3999016	2.5-116	S-01	
WTG-15	15	466952	3999022	2.5-116	S-01	
WTG-16	16	467283	3999005	2.5-116	S-01	
WTG-17	17	467624	3999133	2.5-116	S-01	
WTG-18	18	467964	3999206	2.5-116	S-01	
WTG-21	21R	464328	4000716	2.5-116	S-01	
WTG-22	22	464663	4000749	2.5-116	S-01 S-01 S-01 S-01 S-01 S-01	
WTG-23	23	465005	4000769	2.5-116		
WTG-24	24R	465323	4000797	2.5-116		
WTG-25	25	465820	4000795	2.5-116		
WTG-27	27	466633	4001023	2.5-116		
WTG-28	28	466972	4001080	2.5-116		
WTG-29 29 WTG-30 30		467301	4001050	2.5-116	S-01	
		467625	4000979	2.5-116	S-01	
WTG-31	31	467948	4000898	2.5-116	S-01 S-01	
WTG-32	32	468267	4000737	2.5-116		
WTG-33	33	468586	4000574	2.5-116	S-01	
WTG-34	34	468327	4002536	2.5-116	S-01	
WTG-35	35	469162	4002581	2.5-116 2.5-116 2.5-116 2.5-116	S-01 S-01 S-01 S-01 S-01 S-01	
WTG-36	36	469489	4002680			
WTG-37	37R	469870	4002737			
WTG-38	38RN	470227	4002754			
WTG-39	39R	465846	4003784	2.5-116		
WTG-40	40	466309	4003856	2.5-116		
WTG-41 41 WTG-42 42 WTG-43 43		466647	4003855	2.5-116	S-01	
		467378	4003827	2.5-116	S-01	
		467702	4003751	2.5-116	S-01	
WTG-44	44	468014	4003669	2.5-116	S-01	
WTG-45	45R	468328	4003632	2.5-116	S-01	
WTG-45	456	468685	4003632	2.5-116	S-01	
WTG-40 WTG-47	46 47R	469034	4003857	2.3-116	S-01	
WTG-47 WTG-48	48	469348	4003837	2.5-116	S-01	
WTG-48 WTG-49	49	469952	4003900	2.5-116	S-01	
WTG-49 WTG-50	50	470248	4003884	2.5-116	S-01	
WTG-50 WTG-51	51R	470248	4003701	2.5-116	S-01	
WTG-51 WTG-52	51K 52	471756	4003600	2.5-116	S-01	
WTG-52 WTG-53	53	471730	4003433	2.5-116	S-01	
WTG-53	54R	472656	4003913	2.5-116	S-01	
WTG-54	55	472030	4003886	2.5-116	S-01	
WTG-55	55 57R	475505	4003877	2.5-116	S-01	

REVISION DESCRIPTION

TURBINE ID	GEOTECH		OORDINATES 83 Zone 14	TURBINE	DWG. NO.	
	ID	Х	Υ	MODEL		
WTG-58	58R	475844	4001475	2.5-116	S-01	
WTG-59	59	476183	4001452	2.5-116	S-01	
WTG-61	61	476889	4001779	2.5-116	S-01	
WTG-62	62R	477250	4001926	2.5-116	S-01	
WTG-63	63	477566	4001979	2.5-116	S-01	
WTG-65	65	475845	4002667	2.5-116	S-01	
WTG-66	66	476282	4002704	2.5-116	S-01	
WTG-67	67	476636	4002695	2.5-116	S-01	
WTG-68	68	477032	4003735	2.5-116	S-01	
WTG-69	69	477395	4003621	2.5-116	S-01	
WTG-70	70R	477763	4003620	2.5-116	S-01	
WTG-71	71	478071	4003531	2.5-116	S-01	
WTG-72	72R	480325	4003732	2.5-116	S-01	
WTG-73	73	480652	4003536	2.5-116	S-01	
WTG-74	74R	480987	4003409	2.5-116 2.5-116	S-01	
WTG-75	75	482637	4002986		S-01	
WTG-76	76	482951	4002969	2.5-116	S-01	
WTG-77	77	477373	4005480	2.5-116	S-01	
WTG-78	78	477704	4005459	2.5-116	S-01	
WTG-79	79R	478060	4005438	2.5-116	S-01	
WTG-80	80	466878 467182	4005438	2.5-116 2.5-116	S-01 S-01	
WTG-81	81R		4005388			
WTG-82	Alt82	467541	4005406	2.5-116	S-01	
WTG-83	Alt83	467858	4005399	2.5-116	S-01	
WTG-86	Alt86	471291	4005916	2.5-116	S-01	
WTG-87	4R	471704	4006090	2.5-116	S-01	
WTG-88	11R	472071	4006188	2.5-116	S-01	
WTG-90	20R	473119	4007002	2.3-116	S-01	
WTG-91	26R	473474	4007051	2.3-116	S-01	
WTG-92	56R	473852	4007172	2.3-116	S-01	
WTG-93	60R	474256	4007275	2.3-116	S-01	
WTG-94	64R	474625	4007417	2.3-116	S-02	
WTG-95	10R	475004	4007583	2.3-116	S-01	
		·	·	Total 2.5-116 =	73	
				Total 2.3-116 =	7	





SECTION VIEW TITLE

SECTION VIEW CALL OUT

# LIMITS OF SECTION CUT SECTION IDENTIFIER

RECORD DRAWING

CONFIDENTIAL

## **DRAWING INDEX**

TITLE

S-00 . . . 5 . . . TITLE SHEET, DRAWING INDEX, AND LOCATION MAP

S-01 . . . . 3 . . . 2.3MW & 2.5MW SPREAD FOOTING FOUNDATION - PLAN, ELEVATION, SECTION AND DETAILS

AS SHOWN

JMW JAD2

S-02 . . . . 3 . . . BUOYANT SPREAD FOOTING FOUNDATION - PLAN, ELEVATION, SECTION AND DETAILS

S-03....2...SPREAD FOOTING FOUNDATION - TECHNICAL SPECIFICATIONS AND SUBMITTALS

S-04 . . . . 1 . . . SPREAD FOOTING FOUNDATION SOIL CORRECTION SECTIONS AND SPECIFICATIONS

WANZEK CONSTRUCTION, INC. WEST FARGO, NORTH DAKOTA

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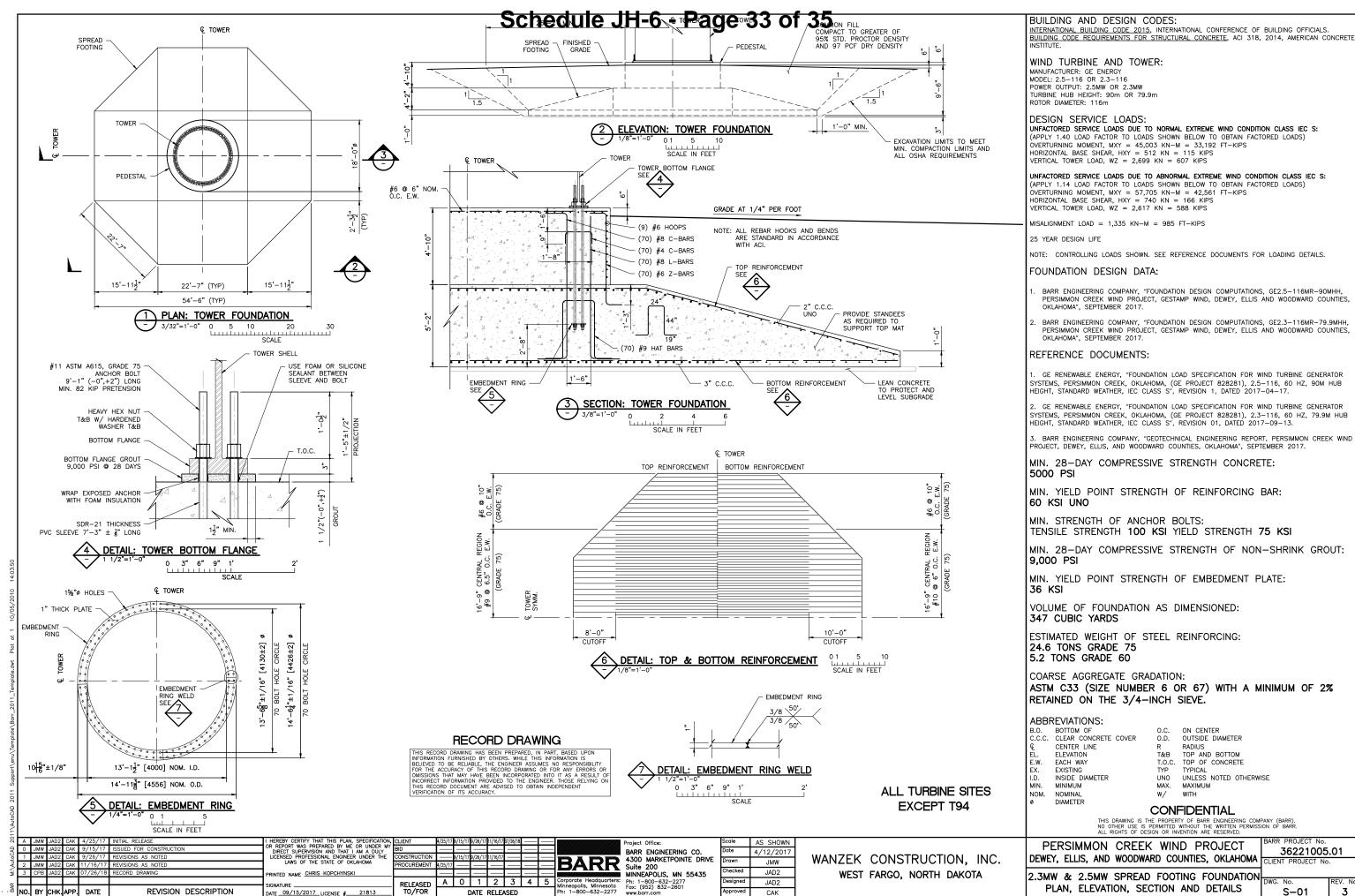
TITLE SHEET, DRAWING INDEX AND LOCATION MAP

	36221005.01										
٩	CLIENT PROJECT No										
	DWG. No.	REV. No.									
	S-00	5									

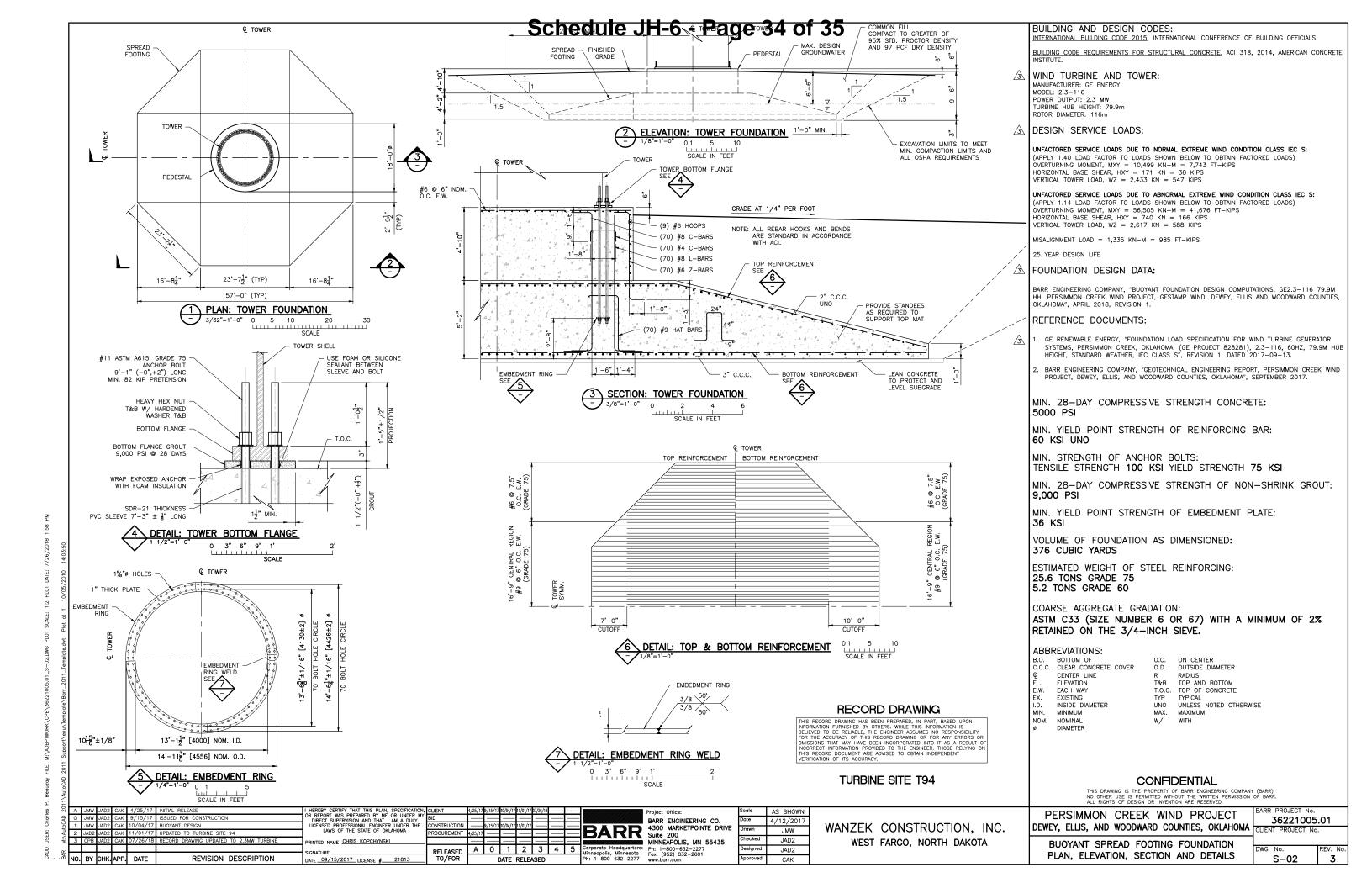
DATE 09/15/2017 LICENSE # 21813

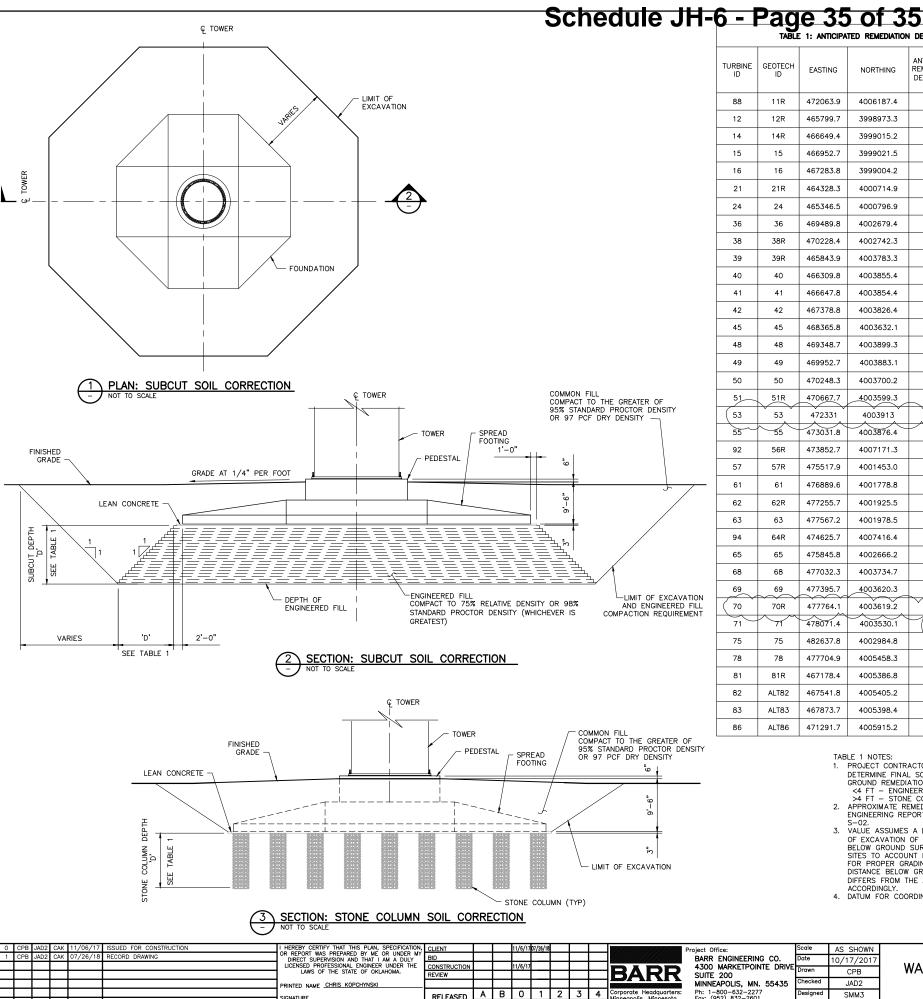
BARR ENGINEERING CO. MINNEAPOLIS, MN 55435 Ph: 1-800-632-2277 Fax: (952) 832-2601

4/24/2017 SMM3



BUILDING AND DESIGN CODES:





ANTICIPATED REMEDIATION ANTICIPATED SOIL GEOTECH DEPTH BELOW FASTING NORTHING CORRECTION TYPE DEPTH (FT) FOUNDATION 'C (FT) 11R 472063.9 4006187.4 SURFACE COMPACTION 12R 465799.7 3998973.3 STONE COLUMNS 25 15.5 14R 466649.4 3999015.2 SURFACE COMPACTION 15 466952.7 3999021.5 SURFACE COMPACTION 16 467283.8 3999004.2 21R 464328.3 4000714.9 SURFACE COMPACTION 24 465346.5 4000796.9 SURFACE COMPACTION 469489.8 4002679.4 SURFACE COMPACTION 38R 470228.4 4002742.3 SURFACE COMPACTION 39R 465843.9 4003783.3 SURFACE COMPACTION 40 466309.8 4003855.4 SURFACE COMPACTION 41 466647.8 4003854.4 SURFACE COMPACTION 42 467378.8 4003826.4 SURFACE COMPACTION 45 468365.8 4003632 1 SURFACE COMPACTION 48 469348.7 4003899.3 SURFACE COMPACTION 49 469952.7 4003883.1 30 20.5 STONE COLUMNS 50 470248.3 4003700 2 SURFACE COMPACTION 51R 470667. 4003599.3 STONE COLUMNS 5.3 472331 4003913 SURFACE COMPACTION 1 PER REJ #37 -55 473031.8 4003876.4 SURFACE COMPACTION 4007171.3 56R 473852.7 SURFACE COMPACTION 57R 475517.9 4001453.0 SURFACE COMPACTION 61 476889.6 4001778.8 SURFACE COMPACTION 62R 477255.7 4001925.5 SURFACE COMPACTION SURFACE COMPACTION 4001978.5 63 477567.2 64R 474625.7 4007416.4 10 0.5 CONSTRUCTION TESTING 65 475845.8 4002666.2 SURFACE COMPACTION 477032.3 4003734.7 SURFACE COMPACTION SURFACE COMPACTION 477395.7 4003620.3 69 70R 477764.1 4003619.2 STONĚ COLŮMNS ENTIRE SITE WAS CUT 478071.4 4003530.1 SURFACE COMPACTION DOWN 25 FEET 75 482637.8 4002984.8 SURFACE COMPACTION 78 477704.9 4005458.3 SURFACE COMPACTION 81R 467178.4 4005386.8 SURFACE COMPACTION ALT82 467541.8 4005405.2 SURFACE COMPACTION ALT83 467873.7 4005398.4 SURFACE COMPACTION

TABLE 1: ANTICIPATED REMEDIATION DEPTH 'D' BELOW BOTTOM OF FOUNDATION

#### TABLE 1 NOTES:

4005915.2

1. PROJECT CONTRACTOR/SPECIALTY DESIGN-BUILD CONTRACTOR TO DETERMINE FINAL SOIL CORRECTION METHOD(S). SUGGESTED GROUND REMEDIATION OPTIONS INCLUDE: <4 FT — ENGINEERED FILL >4 FT — STONE COLUMNS

SURFACE COMPACTION

- APPROXIMATE REMEDIATION DEPTHS PER GEOTECHNICAL ENGINEERING REPORT. SEE REFERENCE ON DRAWING REFERENCE ON DRAWINGS S-01 AND
- 3. VALUE ASSUMES A DISTANCE BELOW GROUND SURFACE TO BOTTOM OF EXCAVATION OF APPROXIMATELY 9'-6". ACTUAL DISTANCE BELOW GROUND SURFACE OF EXCAVATION MAY VARY BETWEEN SITES TO ACCOUNT FOR SITE SPECIFIC CONDITIONS OR TO ALLOW FOR PROPER GRADING AWAY FROM FOUNDATION PEDESTAL. IF DISTANCE BELOW GROUND SURFACE TO BOTTOM OF EXCAVATION DIFFERS FROM THE ASSUMED 9'-6". ADJUST 'D' VALUES
- ACCORDINGLY.

  4. DATUM FOR COORDINATES IS UTM NAD83 ZONE 14.

#### 1.0 SUBGRADE SOIL CORRECTION

A. <u>GENERAL</u>
1. ENSURE FOUNDATION SITE IS EXCAVATED, BACKFILLED AND GRADED IN ACCORDANCE WITH THIS DRAWING AND DRAWINGS S-01 AND S-02.

2. PROJECT CONTRACTOR/SPECIALTY DESIGN-BUILD CONTRACTOR TO DETERMINE FINAL SOIL CORRECTION METHOD(S). SUGGESTED GROUND REMEDIATION OPTIONS INCLUDE ENGINEERED FILL SURFACE COMPACTION, AND STONE COLUMNS.

- THE MAXIMUM AND MINIMUM INDEX DENSITIES OF SOILS TO BE USED AS ENGINEERED FILL SHALL BE MEASURED ACCORDING TO ASTM D4253 AND D4254 OR A STANDARD PROCTOR DENSITY TO ASTM D698 PRIOR TO THE MATERIALS BEING PLACED.
- ANTICIPATED CORRECTION DEPTHS AND SITE COORDINATES ARE REPRODUCED FROM THE PROJECT GEOTECHNICAL REPORT REFERENCED ON DRAWINGS S-01 AND S-02. BARR TAKES NO RESPONSIBILITY FOR THE SITE COORDINATES. DETERMINATION THAT SOIL CORRECTION IS REQUIRED, OR FOR THE METHOD OR DEPTH OF SOIL CORRECTION.

- PRIOR TO THE MATERIALS BEING PLACED SUBMIT GRAIN SIZE ANALYSIS (ASTM D422), NATURAL MOISTURE CONTENT (ASTM D2216), AND EITHER STANDARD PROCTOR (ASTM D698) OR MAXIMUM (ASTM D4253) AND MINIMUM (ASTM D4254) INDEX DENSITY TEST RESULTS FOR SOILS TO BE USED AS ENGINEERED FILL.
- SUBMIT COMPACTION TEST RESULTS FOR ENGINEERED FILL PLACED BENEATH THE FOUNDATION INDICATING LOCATION OF TEST, DRY DENSITY, AND MOISTURE CONTENT OF PLACED ENGINEERED FILL.
- SUBMIT A STONE COLUMN DESIGN REPORT, DRAWINGS, AND SPECIFICATIONS STAMPED BY A OKLAHOMA PROFESSIONAL ENGINEER.
- SUBMIT STONE COLUMN TESTING AND INSPECTION REPORTS.
- THE SUBGRADE FOR EACH FOUNDATION SHALL BE INSPECTED BY A GEOTECHNICAL ENGINEER WITHIN 24 HOURS PRIOR TO PLACEMENT OF ENGINEERED FILL OR LEAN CONCRETE, AND WITHIN 24 HOURS AFTER SURFACE COMPACTION. SUBMIT SUBGRADE INSPECTION REPORT IN ACCORDANCE WITH DRAWING S-0.3 FOR EACH FOUNDATION COMPLETED BY A GEOTECHNICAL ENGINEER.

- ENGINEERED FILL: A WELL GRADED GRANULAR SOIL CONSISTING OF GRAVEL, SAND OR CRUSHED STONE WITH A MAXIMUM SIZE OF 1 1/2", A MINIMUM OF 70% PASSING THE 3/4" SIEVE AND A MAXIMUM OF 10% PASSING THE NO. 200 SIEVE.
- STONE COLUMNS: TO STONE COLUMN CONTRACTOR REQUIREMENTS.
- 3. LEAN CONCRETE AND COMMON FILL: SEE DRAWING S-03.

#### D. EXECUTION

- WHERE NOTED IN TABLE 1. PERFORM SUBGRADE CORRECTION FITHER BY SURFACE COMPACTION, SUBCUTTING DEFICIENT SOILS AND REPLACING WITH COMPACTED ENGINEERED FILL OR LEAN CONCRETE, OR INSTALLING STONE COLUMN CORRECTION TO THE DEPTHS INDICATED IN ACCORDANCE WITH THE APPLICABLE REMEDIATION METHOD REQUIREMENTS
- HAVE THE PROJECT GEOTECHNICAL ENGINEER VERIFY THE SURFACE COMPACTION. DEPTH OF SUITABLE BEARING CONDITIONS AND REQUIRED SUBCUT AT THE TIME OF EXCAVATION, OR THE STONE COLUMN DEPTH AT THE TIME OF INSTALLATION AND INCLUDE THAT INFORMATION THE SUBGRADE INSPECTION REPORT.
- CONTROL SURFACE WATER OR GROUNDWATER FLOWS INTO THE EXCAVATION USING MEANS DETERMINED BY THE CONTRACTOR. IF SUCH MEANS ARE EMPLOYED, RECORD THE MEANS UNDERTAKEN, SOURCE OF WATER (GROUND OR SURFACE), AND VOLUME OF WATER CONTROLLED. SUBMIT A DEWATERING RECORD TO THE FOUNDATION ENGINEER.
- SURFACE COMPACTION: SURFACE COMPACT BY USING A SMOOTH DRUM VIBRATORY COMPACTOR OR OTHER EQUIPMENT TO A MINIMUM OF 98% OF STANDARD PROCTOR MAXIMUM DRY DENSITY
- ENGINEERED FILL PLACEMENT AND COMPACTION: PLACE AND COMPACT ENGINEERED FILL TO THE LIMITS, DEPTH AND RELATIVE DENSITY OR STANDARD PROCTOR DENSITY INDICATED IN SECTION 1. PLACE AN INITIAL LIFT OF ENGINEERED FILL IMMEDIATELY AFTER COMPLETION OF THE EXCAVATION AND APPROVAL BY THE GEOTECHNICAL ENGINEER.
  MOISTURE CONDITION THE MATERIAL TO WITHIN 3% OF OPTIMUM (PER ASTM D698). PLACE ENGINEERED FILL IN LOOSE LIFTS OF 9 INCHES OR LESS TO ACHIEVE THE SPECIFIED
- PLACE LEAN CONCRETE IN ACCORDANCE WITH DRAWING S-03.
- PLACE COMMON FILL AND GRADE THE SITE IN ACCORDANCE WITH DRAWING S-03.

#### F. TESTING AND INSPECTION

- FOR EVERY 1000 CUBIC YARDS OF PLACED ENGINEERED FILL: OBTAIN SAMPLES OF ENGINEERED FILL MATERIALS AND PERFORM GRAIN SIZE ANALYSIS, MOISTURE CONTENT, AND RELATIVE DENSITY OR PROCTOR TESTS.
- FOR PLACED AND COMPACTED ENGINEERED FILL PROVIDE TWO DENSITY TESTS PER LIFT INDICATING TEST LOCATION, DRY DENSITY, MOISTURE CONTENT AND RELATIVE COMPACTION. IN THE EVENT THAT THE SPECIFIED COMPACTION REQUIREMENT IS NOT ACHIEVED, RECOMPACT AND RETEST THE ENGINEERED FILL.
- FOR SURFACE COMPACTION PROVIDE FIVE DENSITY TESTS INDICATING TEST LOCATION (CENTER AND FOUR QUADRANTS), DRY DENSITY, MOISTURE CONTENT, AND RELATIVE COMPACTION. IN THE EVENT THAT THE SPECIFIED COMPACTION REQUIREMENT IS NOT ACHIEVED RECOMPACT AND RETEST
- PERFORM STONE COLUMN TESTING AND INSPECTION IN ACCORDANCE WITH STONE COLUMN RECHIREMENTS
- PROVIDE A SUBGRADE INSPECTION REPORT TO BE COMPLETED BY A GEOTECHNICAL ENGINEER

### RECORD DRAWING

THIS RECORD DRAWING HAS BEEN PREPARED, IN PART, BASED UPON INFORMATION FURNISHED BY OTHERS, WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THIS RECORD DRAWING OR FOR MAY ERRORS OR OMISSIONS THAT MAY HAVE BEEN INCORPORATED INTO IT AS A RESULT OF INCORRECT INFORMATION PROVIDED TO THE ENGINEER. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY.

### CONFIDENTIAL

urles P	0 CPB JAD2 CAK 11/06/17 ISSUED FOR CONSTRUCTION 1 CPB JAD2 CAK 07/26/18 RECORD DRAWING	I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY	CLIENT BID	11/6/17/07/26/1			Project Office: BARR ENGINEERING CO.	Date	AS SHOWN 10/17/2017		PERSIMMON CREEK WIND PROJECT	BARR PROJECT NO. 36221005.0	 01
ğ.	+ + + + + + + + + + + + + + + + + + + +	LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF OKLAHOMA.	CONSTRUCTION REVIEW	11/6/17	++	BARR	4300 MARKETPOINTE DRIVE SUITE 200	Drawn	СРВ	WANZEK CONSTRUCTION, INC.	DEWEY, ELLIS, AND WOODWARD COUNTIES, OKLAHOMA	CLIENT PROJECT NO.	
USER		PRINTED NAME CHRIS KOPCHYNSKI		A D 0 1	0 7	Corporate Headquarters:	MINNEAPOLIS, MN. 55435 Ph: 1-800-632-2277	Checked	JAD2	WEST FARGO, NORTH DAKOTA	SPREAD FOOTING FOUNDATION SOIL		2EV NO
CADD	NO. BY CHK APP. DATE REVISION DESCRIPTION	SIGNATURE	RELEASED TO/FOR	DATE RELE	ASED	Minneapolis, Minnesota Ph: 1-800-632-2277	Fax: (952) 832—2601 www.barr.com	Approved	SMM3 CAK		CORRECTION SECTIONS AND SPECIFICATIONS	S-04	1

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