

STATE OF OKLAHOMA  
DEPARTMENT OF TRANSPORTATION

SURVEY OF  
**STATE HIGHWAY 34**  
BRIDGE OVER NORTH PERSIMMON CREEK,  
7.6 MILES NORTH OF THE DEWEY COUNTY LINE  
SWO 4844(1)  
STATE JOB NO. 28827(04),  
**WOODWARD COUNTY**

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
REVISIONS					DATE
DESCRIPTION					

STATE OF OKLAHOMA  
DEPARTMENT OF TRANSPORTATION  
SURVEY DIVISION

SWO 4844(1) J/P 28827(04) ; E.C. 1394 WOODWARD CO.

**HORIZONTAL CONTROL:**  
 Oklahoma Coordinate System of 1927 \_\_\_\_\_ Zone.  
 Oklahoma Coordinate System of 1983 (1983) North Zone.  
 Oklahoma Dept. of Transportation Plane Coordinate System of 1927 \_\_\_\_\_ Zone.  
 Oklahoma Dept. of Transportation Plane Coordinate System of 1983 \_\_\_\_\_ Zone.  
 Arbitrary Coordinate System \_\_\_\_\_

**HORIZONTAL PLANE DATUM DEFINITION:**  
 Oklahoma Department of Transportation coordinates were derived by multiplying the Oklahoma Coordinate Systems of 1927 or 1983 by the combined adjustment factor of 1.00010. The ODOT Coordinate System is 2350 feet above sea level.

1. Primary Control adjusted to OBTAINED BY OPUS SOLUTIONS (B) Order  
 Stations \_\_\_\_\_  
 A) Closure before adjustment X \_\_\_\_\_; Y \_\_\_\_\_ Angles \_\_\_\_\_  
 Trav. Length \_\_\_\_\_; No. Angles \_\_\_\_\_; 1: \_\_\_\_\_  
 B) \_\_\_\_\_; is  Order before adjustment.  
 C) Method of Distance Measurement:  
 Electronic  GPS  Triangulation  Chained  
 D) Instrument used for angles \_\_\_\_\_

2. Secondary Control adjusted to Primary Control (B) Order  
 Stations W-77-740, W-77-741  
 A) Closure before adjustment X \_\_\_\_\_; Y \_\_\_\_\_ Angles \_\_\_\_\_  
 B) Secondary Control; is (3rd) Order; Tied to \_\_\_\_\_  
 C) Method of Distance Measurement:  
 Electronic  GPS  Triangulation  Chained  
 D) Instrument used for angles Topcon Hiper II GPS

**VERTICAL CONTROL IS** (3rd) order. Level Line taken from 3" ALUMINUM CAP W-77-740  
 (3RD) order and tied to OBTAINED BY OPUS SOLUTIONS (3RD) order.  
 VERTICAL CLOSURE = 0.006 feet before adjustment. 3rd order would allow 0.05 feet.

**ACCURACY DEFINITION:**  NGVD 29 datum  NAVD 88 datum  
 (1) HORIZONTAL: (3rd Order = Class I = 1 : 10,000')  
 (3rd Order = Class II = 1 : 5,000')  
 (2) VERTICAL: (1st Order = 0.017 Ft. x sqrt. of Mi.) (2nd Order = 0.035 Ft. x sqrt. of Mi.)  
 (3rd Order = 0.050 Ft. x sqrt. of Mi.)

**Distribution:**  
 Copy w/survey reports \_\_\_\_\_  
 Copy in each Alignment \_\_\_\_\_  
 and level book \_\_\_\_\_

JOSEPH H. FARMER  
Professional Land Surveyor

May 29, 2013  
Date

Rev. 11/03 (FORM SD #20)

**INDEX OF SHEETS**

SDS 1. TITLE SHEET  
 SDS 2. HISTORICAL LETTER  
 SDS 3. LEVEL WORKSHEET  
 ALIGNMENT REPORT  
 COGO LIST

SDS 4. CONTROL MAP & INFO.  
 SDS 5-6. SURVEY DATA SHEETS  
 SDS 7. LAND TIES

**EQUIPMENT:**  
 TOPCON GR3 GPS  
 TOPCON HIPER II GPS  
 TOPCON IS 3" IMAGING ROBOTIC TOTAL STATION  
 TOPCON FC-2500 DATA COLLECTORS  
 GPT-9005A 5" ROBOTIC TOTAL STATION  
 TOPCON GPT 3000W TOTAL STATION  
 TOPCON GPT 3005W TOTAL STATION  
 TOPCON GTS 3000 TOTAL STATION  
 TOPCON GTS 313 TOTAL STATION  
 TRIMBLE TSC 1 DATA COLLECTORS  
 TRIMBLE TSC 2 DATA COLLECTORS  
 TRIMBLE 5700 GPS  
 TRIMBLE 5800 GPS  
 SOKKIA SDL 30 DIGITAL LEVEL  
 INROADS WORKING IN AUTOCAD PLATFORMS

**PERSONNEL:**  
 JOE FARMER, P.L.S. TECHNICIAN MANAGER 2  
 TANNER WENTWORTH, L.S.I. SURVEY INTERN 1  
 BRIAN BIRD, L.S.I. SURVEY INTERN 1  
 COREY SIMMONS, TECHNICIAN 1  
 SAM MCGEE, TECHNICIAN 1  
 ERIC MENTZER, TECHNICIAN 3  
 ERIC OLDFHAM, TECHNICIAN 1  
 MATTHEW OVERALL, TECHNICIAN 1  
 REBECCA ROBICHAUX, TECHNICIAN 2  
 PARKER KUGLER, TECHNICIAN 1  
 MATTHEW CHERNICKY, LEAD ROW AGENT

SURVEY BEGAN: NOVEMBER 14, 2012  
 SURVEY COMPLETED: APRIL 16, 2013

STATE OF OKLAHOMA  
DEPARTMENT OF TRANSPORTATION

SWO 4844(1) JOB/PIECE 28827(04) ENGR. CONTRACT NO. 1394

**LAND SURVEYORS CERTIFICATION**

I hereby certify that all land and property subdivision distances, angles, corners and monuments made or used in conjunction with this survey and depicted or recorded herein or hereon were recovered, established or re-established in substantial conformity with:

- applicable instructions contained in the U.S. Government Bureau of Land Management publication "Manual of Surveying Instructions";
- its supplement, "Restoration of Lost or Obliterated Corners and Subdivision of Sections";
- "Oklahoma Minimum Standards for the Practice of Land Surveying" as adopted by the State Board of Registration for Professional Engineers and Land Surveyors; and
- sound land surveying practices;

including a thorough search, study, analysis and consideration of all existing records and field evidence.

I further certify that all survey monuments depicted exist and that all land survey work was done by me or under my direct supervision and that it is true, accurate and correct to the best of my knowledge and belief.

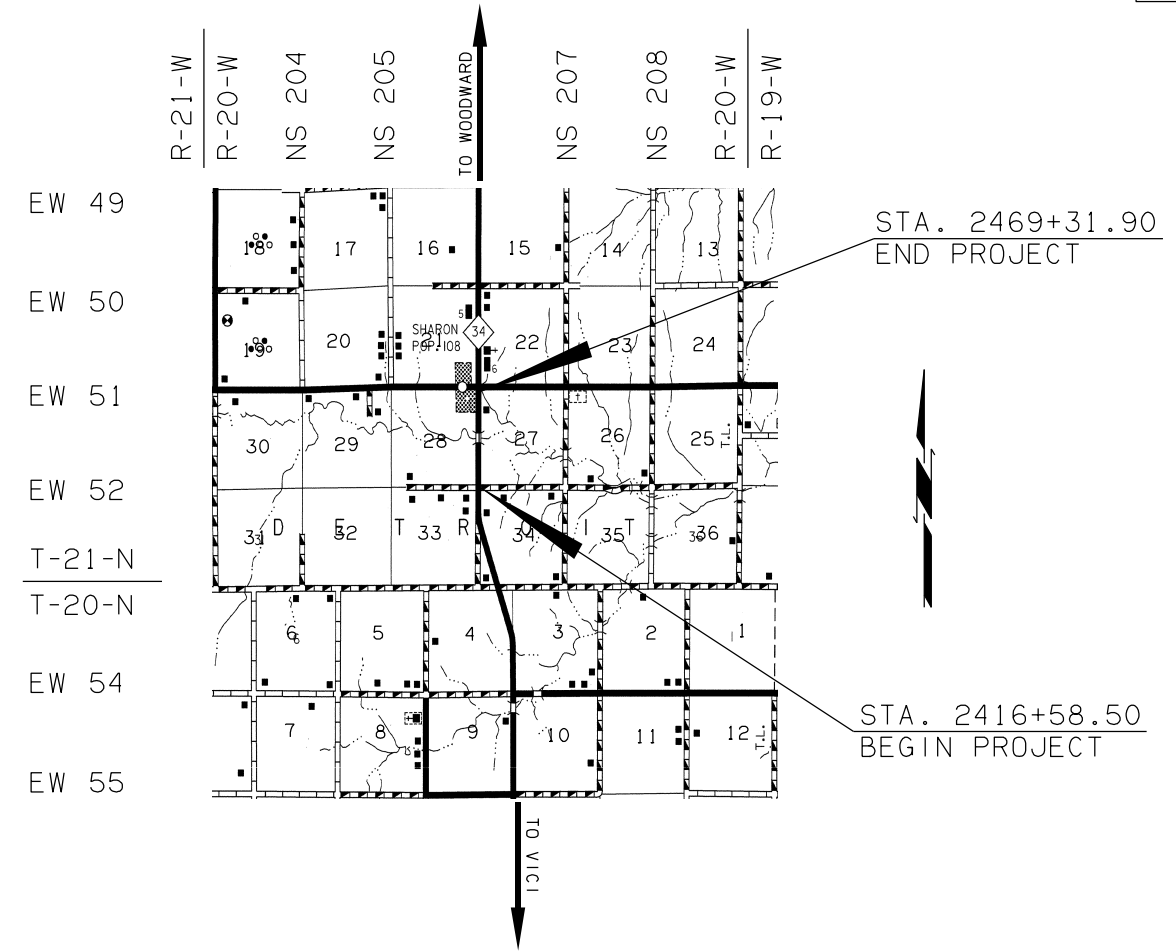
Dated this 29 day of MAY, 2013.

Land Surveyor Joseph H. Farmer Signature  
 Joseph H. Farmer  
Printed Name

Oklahoma Registered Land Surveyor No. 1799  
 Certificate of Authorization No. 32 Exp. Date June 30, 2014

**UTILITY OWNERS CONTACT INFORMATION**

OWNER	ADDRESS	PHONE
OG&E	3220 S. HIGH ST. OKLAHOMA CITY, OK 73129	(405) 553-0902
ONG	4901 N. SANTA FE AVE. P.O. BOX 401 OKC, OK 73118	(405) 556-6411
PIONEER TELEPHONE	205 E. ROBERTS KINGFISHER, OK 73750	(405) 375-0255
TOWN OF SHARON		(580) 334-0174



PROJECT LENGTH: 5,273.4 FT. 1.00 MILE

EQUATIONS: BOP STA. 2416+58.50  
 EOP STA. 2469+31.90

EXCEPTIONS: NONE

**Electronic File Transfer Disclaimer:**

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THIS SURVEY MEETS THE OKLAHOMA MINIMUM STANDARDS FOR THE PRACTICE OF LAND SURVEYING AS ADOPTED BY THE OKLAHOMA STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND LAND SURVEYORS, MAY 11, 2007.

SPECIFICATIONS FOR SURVEYS FOR PRIMARY AND SECONDARY HIGHWAYS DATED FEBRUARY 2007 GOVERN.  
 SDS # 01 OF 07

DATE APPROVED \_\_\_\_\_  
 BY \_\_\_\_\_  
 CHIEF OF SURVEYS

PREPARED BY:  
 JOSEPH H. FARMER, PLS  
 COBB ENGINEERING COMPANY

PREPARED FOR:  
 OKLAHOMA DEPARTMENT OF TRANSPORTATION  
 SURVEY DIVISION

SHEET NO. 10

