

# SURVEY DATA SHEETS

## OSAGE COUNTY

S.H. 99

SWO 4564(1)

STATE JOB NO. 24261(04)

STATE JOB NO. 24263(04)

### SURVEY CONTROL DATA

#### 1. HORIZONTAL CONTROL:

- A. HORIZONTAL CONTROL FOR THIS SURVEY IS THE NGS OKLAHOMA STATE PLANE COORDINATE SYSTEM, NAD83 (CORS96), LAMBERT PROJECTION (SOUTH ZONE).
- B. ACCURACY - THE PRIMARY CONTROL NETWORK, THE SECONDARY CONTROL NETWORK AND SECTION BOUNDARIES FOR THIS SURVEY ARE IN GENERAL COMPLIANCE WITH THE NGS SECOND ORDER, CLASS II STANDARDS FOR HORIZONTAL CONTROL (1:20,000).

#### 2. BEARINGS:

THE BEARINGS SHOWN HEREIN OR HEREON ARE GRID BEARINGS DERIVED FROM THE NGS OKLAHOMA STATE PLANE COORDINATE SYSTEM AND ARE NOT ASTRONOMICAL. THE ANGLE OF VARIANCE BETWEEN GRID NORTH (GN) AND THE ASTRONOMICAL TRUE NORTH (TN) IS DEPICTED DIAGRAMMATICALLY.

#### 3. VERTICAL CONTROLS:

- A. LEVEL DATUM IS NAVD 88.
- B. ACCURACY - VERTICAL CONTROL FOR THIS SURVEY IS WITHIN THE CLOSURE REQUIREMENT OF NOAA/NGS 'CLASSIFICATION, STANDARDS OF ACCURACY, AND GENERAL SPECIFICATIONS OF GEODETIC CONTROL SURVEYS' (FEB. 1974, REPRINTED FEB. 1977) THIRD ORDER STANDARDS AS A MINIMUM.

#### INDEX OF SURVEY SHEETS

1. TITLE SHEET
2. HISTORICAL LETTER & WRITTEN REPORT
3. COGO POINTS, BENCHMARK LIST & ALIGNMENT DATA
4. HORIZONTAL CONTROL DIAGRAM & DATA
5. OPUS INFORMATION SHEET
- 6-9. SURVEY DATA SHEETS
- 10-13. GEOMETRIC DATA SHEETS

SURVEY BEGAN: NOVEMBER 16, 2010  
SURVEY COMPLETED: JANUARY 26, 2011

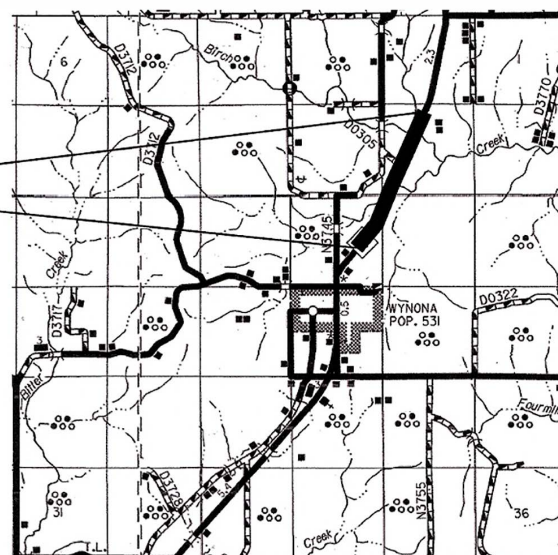
JOHN M. HUGHETT, PROFESSIONAL LAND SURVEYOR  
PIERCE TRANUM, SURVEY TECHNICIAN  
ED PAINTER, SENIOR SURVEY TECHNICIAN  
JASON FAVORS, SURVEY TECHNICIAN  
CLARK FISHER, SURVEY TECHNICIAN  
TERRY GLAD, SURVEY TECHNICIAN

EQUIPMENT:  
TOTAL STATION - TOPCON GTS233W AND TRIMBLE S6 ROBOTIC TOTAL STATION  
AUTO LEVEL - TOPCON AT-G2  
GPS - TOPCON GB500 BASE, TOPCON HIPER GA, TRIMBLE R8 BASE & ROVER

OKLAHOMA DEPARTMENT OF TRANSPORTATION					
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
DESCRIPTION			REVISIONS	DATE	

### PROJECT LOCATION

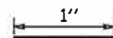
R-9-E



### PROJECT EXTENTS

S.H. 99 BRIDGE OVER AN ABANDONED RAILROAD AND OVER BIRCH CREEK STA. 995+00.000 BEG. STA. 1108+00.000 END

#### SCALES



SURVEY DATA SHEETS 1" = 100'

GEOMETRIC DATA SHEETS 1" = 500'

#### CONVENTIONAL SYMBOLS

- RAILROADS
- RANGE & TOWNSHIP
- SECTION LINES
- QUARTER SECTION LINES
- FENCES
- EXISTING ROADS
- BASE LINE
- TELEPHONE & TELEGRAPH
- POWER LINES
- BUILDINGS
- OILWELL
- DRAINAGE STRUCTURES - IN PLACE

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.

SPECIFICATIONS FOR SURVEYS FOR PRIMARY AND SECONDARY HIGHWAYS DATED SEPTEMBER 11, 2001 GOVERN.

SDS 1 OF 13

Revised March 28, 2007

STATE OF OKLAHOMA  
DEPARTMENT OF TRANSPORTATION

24261  
SWO 4564(1) Job/Piece 24263 (04) Engr. Contract No. 1298-G

LAND SURVEYOR'S CERTIFICATION

I hereby certify that all land and property sub-division distances, angles, corners and monumentation 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 14th day of FEBRUARY, 2011.

Land Surveyor Signature  
JOHN M. HUGHETT Printed Name

Oklahoma Registered Land Surveyor No. 1232  
Certificate of Authorization No. 2054 Exp. Date JUNE 30, 2012

OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION			
PLS	JMH		
DRAWN	TG		
CHECKED	JMH		
APPROVED			
CREW	PT, JF, CF, SA	SWO 4564(1)	STATE JOB NO. 24263(04) SHEET NO. 11