

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

SWO 4752(1), J/P 27968(04) - U.S. 277 - COMANCHE COUNTY
OKLAHOMA DEPARTMENT OF TRANSPORTATION
SURVEY DIVISION

FEBRUARY 22ND, 2012

TO: MR. LARRY RESER, CHIEF OF SURVEYS

FROM: JESSE L. CARROLL, PROFESSIONAL LAND SURVEYOR

SUBJECT: SWO 4752 (1), J/P 27968(04), U.S. 277, BRIDGE OVER SNAKE CREEK,
APPROXIMATELY 0.8 MILE NORTH OF THE COTTON COUNTY LINE

HISTORICAL LETTER AND WRITTEN REPORT

1. SURVEY ASSIGNMENT

The above described survey was assigned to me by Mr. Larry Reser, Chief of Surveys, (EC 1365-B, T.O. #2)

2. PURPOSE OF THIS SURVEY

The purpose of this survey was to obtain data to facilitate the design of a new bridge over Snake Creek on US 277 0.8 mile north of Cotton County line.

3. SURVEY LIMITS

This survey began at EW-176.5 1/2 Section Line and extends North 4,000.00 feet. (Approximate centerline length = 0.76 miles).

4. ALIGNMENT

The centerline of Survey was established along and identical to the centerline of present U.S. 277 as shown on EAP No. 240, Sec. A (REOP) plans.

5. STATIONING

Stationing for this survey was derived by assigning Sta. 100+00.00 to the beginning of this survey at EW-176.5 1/2 Section line. Stationing then increases to the north along centerline survey as shown on EAP No. 240, Sec A (REOP) plans to the end of this survey. Original plan stationing was not used on this survey as it ran from north to south which is opposite of ODOT standards.

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6. HORIZONTAL CONTROL

- A. Horizontal Control for this survey is NAD 83 (1993) Oklahoma State Plane Coordinate System, Lambert Projection, South Zone, derived from OPUS Observations and Solutions.
- B. Primary Horizontal control was established on 2 monuments along this survey. They are 2 inch aluminum caps marked C-16-1095 and C-16-1096.
- C. Secondary horizontal control was established along the centerline of survey and referenced and shown on the survey data sheets of this survey.
- D. The primary control network, the secondary network and section boundaries for this survey are in compliance with NGS Second Order Class II standards for horizontal control (1: 20,000).

7. VERTICAL CONTROL

- A. Tied datum for this survey is NGS, NAVD 88, taken from OPUS Solutions on Primary Control monuments C-16-1095 and C-16-1096. A complete line of check levels was run through the limits of this survey.
- B. The adjusted levels and vertical differences between bench marks are shown in following file: SWO4752_1_V1.dgn
- C. Accuracy - 3rd order or better before adjustment.

8. TOPOGRAPHY

Topography on this survey was obtained by utilizing the Trimble gps RTK system and Total Station technology with the TSC1 data collector for field instruments. Data was collected in the form of a Surface Feature Survey and placed in computer file SWO 4752_1_V1_SFF.dgn

9. CROSS SECTIONS

Cross sections on this survey were obtained by utilizing the Trimble gps RTK system and Total Station technology with the TSC1 data collector in the form of a DTM survey and placed in computer file 4752_1_V1_TRI.dgn

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10. LAND TIES

Land ties for this survey were established for the following Sections (18 & 19, T1S). A search was made for any trace of the original monuments and/or accessories. All filed certified corners received from the Oklahoma Department of Libraries were found and noted. The original survey and survey notes were used from the following survey:

C.L. DUBOIS - PERFORMED IN JANUARY 1875

A complete detailed account of each corner set or used follows.

C-16-1097, SW/CORNER OF SECTION 18, T1S, R11W, LM, COMANCHE COUNTY, OK. FOUND MAG NAIL IN PLACE PER CCR FILED BY PLS 1522. USED THIS CORNER LOCATION AND FILED NEW CCR.

C-16-1098, W/4 CORNER OF SECTION 18, T1S, R11W, LM, COMANCHE COUNTY, OK. FOUND #4 REBAR 6 INCHES DEEP PER CCR FILED BY PLS 1285. THIS CORNER FITS SURVEYS PERFORMED IN SECTION 18 BY PLS 1285 AND 1522. USED THIS CORNER LOCATION AND FILED NEW CCR.

C-16-1099, NW/CORNER OF SECTION 18, T1S, R11W, LM, COMANCHE COUNTY, OK. FOUND #4 REBAR PER CCR'S FILED BY PLS 1285 AND 1522. THIS CORNER FITS SURVEYS PERFORMED IN SECTION 18. USED THIS CORNER LOCATION AND FILED NEW CCR.

C-16-1100, N/4 CORNER OF SECTION 18, T1S, R11W, LM, COMANCHE COUNTY, OK. FOUND #4 REBAR IN PLACE PER CCR FILED BY PLS 1285. THIS CORNER FITS SECTION BREAKDOWN OF SECTION 18. FOUND MAG NAIL 26.11 FEET EAST PER CCR FILED BY PLS 1522 (DID NOT USE). SET #4 REBAR ON TOP OF #4 REBAR AND FILED NEW CCR FOR THIS CORNER LOCATION.

C-16-1101, NE/CORNER OF SECTION 18, T1S, R11W, LM, COMANCHE COUNTY, OK. FOUND #6 REBAR IN PLACE 5 INCHES DEEP PER CCR BY PLS 1285. SET #4 REBAR AND PLS 1071 CAP ON TOP OF #6 REBAR AND FILED NEW CCR FOR THIS CORNER LOCATION.

C-16-1102, E/4 CORNER OF SECTION 18, T1S, R11W, LM, COMANCHE COUNTY, OK. FOUND #4 REBAR PER CCR FILED BY PLS 1285. THIS CORNER FITS SURVEYS PERFORMED WITHIN SECTION 18. USED THIS CORNER AND FILED NEW CCR.

PLS	JLC		OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION
DRAWN	BJG		
CHECKED	JLC		
APPROVED	JLC		
CREW	CARROLL		
SURVEY DATA SHEET			
SWO 4752 (1) PROJECT NO. 27968(04) SHEET NO. S002			

SSDATESS