

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

OKLAHOMA DEPARTMENT OF TRANSPORTATION

SURVEY DIVISION Phone (405)521-2621 FAX (405)522-0364

January 31, 2013

To: Mr. Larry Reser, Chief of Surveys

From: Darin K. Stratton, Professional Land Surveyor

Subject: SWO 4928(1) - J/P Number 27956(04) - US 62 - Muskogee County Intersection Modification at Scott Road (NS 436), Willy Road (NS 437) and 2 mile Road (NS 438).

HISTORICAL LETTER AND WRITTEN REPORT

1. General:

Method of Survey: Field Conventional

Units of measurements: U.S. Survey Foot

Survey Began: December 10, 2012  
Survey Completed: January 31, 2013

Personal:

Brian K. Donaldson - Transportation Specialist V  
Delbert W. Buckmaster - Transportation Specialist IV  
Shannon D. Harris - Transportation Specialist IV  
Cody J. Abbott - Transportation Specialist III

Previous surveys and plans pertinent to this project:

FAP No. F-404 (45) 1981PLANS  
SWO4889(1) 2012 Survey  
SWO2820(1) 1973 Survey

2. Survey Assignment:

This survey was assigned to my Muskogee based survey crew via email letter dated December 13, 2012 from Mr. Jeff King, Survey Branch Manager.

3. Purpose of Survey:

The purpose of this survey was to obtain adequate information for the design and construction of three Intersection Modifications on US 62.

4. Survey Limits:

This survey limits are as listed:

US 62 & Scott Rd. Intersection (NS 436)  
\*200 feet Rt. & Lt. US 62 1000 feet east and west of the intersection  
\*75 feet Rt. & Lt. Scott Rd. 500 feet North & South of US 62  
US 62 & Willey Rd. Intersection (NS 437)  
\*200 feet Rt. & Lt. US 62 1000 feet east and west of the intersection  
\*75 feet Lt. Willey Rd. 1300 feet North & 500 feet South of US 62  
\*75 feet Rt. of new alignment for Willey Rd. 500 feet North and South of US 62  
US 62 & 2 Mile Rd. Intersection (NS 438)  
\*200 feet Rt. & Lt. US 62 100 feet West & 1000 feet East of the intersection  
\*75 feet Rt. & Lt. 2 Mile Rd. 500 feet South & 900 feet North along Centerline.

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5. Alignment:

(A001) US 62

The alignment for this survey was established along the existing centerline of median of US 62 as depicted on FAP 404 (45) Plans. I held swo4889(1) 2012 survey centerline on the west end and extended easterly to a found original P.I. at Station 604+21.18.

Scott Road Connection Survey (A005)

The alignment for this survey was established along the NS 436 Section Line.

Willy Road Connection Survey (A004)

The alignment for this survey was established along the NS 437 Section Line.

2 Mile Road Connection Survey (A003)

The alignment for this survey was established from ties to FAP 404 (45) Plans corners (original P.I. at station 604+21.18 & POST Brass Cap 64.03 feet north of said P.I.) this alignment was extended North to P.T. Station 17+01.42 and south 500 feet along the NS 438 Section Line.

6. Stationing:

(A001) US 62 Centerline of Survey

I assigned Station 465+31.07 to the P.C. established under SWO 4889(1) 2012 Survey and extended this Stationing East throughout this project. This Station agrees with FAP 404 (45) Plans within 0.01 feet.

(A002) Connection Survey on Centerline of Median on east end.

Established PCC at Station 609+13.55 and was extended easterly to the end of curve.

(A003) Connection Survey on 2 Mile Rd.

Stationing was taken directly from FAP 404 (45) Plans and I assigned Station 10+61.84 to the established P.C. This stationing was extended northerly to the established P.T. at Station 17+01.42 and south along the NS 438 Section Line to Station 3+99.81.

(A004) Connection Survey on Willey Rd.

I assigned Station 105+00.00 to the intersection point of US 62 & Willey Rd. and extended North and South.

(A005) Connection Survey on Scott Rd.

I assigned Station 100+00.00 to the B.O.P. (ODOT Brass Cap & 1/4 Section Corner) and extended North throughout this Survey.

7. Horizontal Control:

1. Horizontal Control for this survey is NAD83(1993) Oklahoma State Plane, North Zone. Taken from swo4889(1) 2012 Survey. We recovered Control Monuments 7400 & 7401 and established two Horizontal Control points at each of our survey locations by two independent ties to swo4889(1) 2012 Survey.

2. Secondary Control for this survey was established by GPS Real Time Kinematics methods, following ODOT Survey Division methods and techniques.

A. The primary control network, the secondary control network and the section boundaries for this survey are in general compliance with NGS Second Order, Class II Standards for horizontal control (1"=20,000). It is assumed that the GPS positional accuracies obtained meets or exceeded this standard.

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8. Vertical Control:

A. Datum: Level Datum for this Survey is NAVD88.

B. Source: SWO 4889(1) 2012 Survey

C. Method:

We recovered Control Monuments 7400 & 7401 and established two Horizontal & Vertical Control points at each of our survey locations by two independent ties to swo4889(1) 2012 Survey.

D. Accuracy:

a. Third Order

9. Topography:

The topography for this project was obtained by field conventional methods, such as utility meters, valves, Tel. Peds, underground structures, gates, overheads and mailboxes were locate as directed by the Specifications for Highway and BRO Bridge Surveys, data has been obtained 200 feet Right and Left of centerline US 62 and 75 feet Right & Left on Connection Surveys.

10. Digital Terrain Model:

The Digital terrain model for this project was obtained by field conventional methods. Surface data was located 200 feet Right & Left of the centerline of US 62 & 75 feet Right & Left on the Connection Surveys.

11. Underground Storage Tanks and Environmental Concerns:

During the course of this survey we did not encounter any Environmental Concerns.

12. Environmental:

There were not any WPA Structures encountered during the course of this Survey.

13. Utilities

"OKIE" was contacted requesting the location of underground utilities within the survey extents. The location of the utilities was located as described below:

Underground Telephone owned by AT&T, Muskogee, Oklahoma were obtained by conventional methods as located byUSIC/SMP locator Jim Monday.

Gas owned by ONG, Muskogee, Oklahoma were obtained by conventional methods as located by locator Dale Peachie.

Gas owned by City of Hulbert, Hulbert, Oklahoma were obtained by conventional methods as located by locator Ricky Lee

Water owned by City of Hulbert, Hulbert, Oklahoma were obtained by conventional methods as located by locator Ricky Lee

Water owned by Fort Gibson Utility, Fort Gibson, Oklahoma were obtained by conventional methods as located by locator James Mcstellar

OKLAHOMA DEPARTMENT OF TRANSPORTATION			
SURVEY DIVISION			
PLS	DKS		
DRAWN	BKD		
CHECKED	DKS		
APPROVED	GAK		
CREW	MUSKOGEE	SWO 4928 ( )	PROJECT NO. 27956(04) SHEET NO. 28

**SURVEY DATA SHEET**