Oklahoma Department of Transportation

Date: June 18, 2013 Mr. Larry D. Reser, CFief of Surveys

From: Gary S. Rhoads, Professional Land Surveyor

Subject: SWO 4864(1) - J/P 24692(04) - SH 58 - Caddo County From SH 152 South of Eakly, North 6 miles.

Historical Letter and Written Report

GENERAL

10:

Method of Survey:

This survey was performed using a combination of acrial photogrammaotry and conventional field methods to include Total Station, Static and Ical Time Kincanatic (RTK) Global Positioning System (GPS), Dectornic and Differential Leveling.

Units of Measurement - English (US Survey Foot)

Survey initially hegen on October 2, 2012 on a part time basis in conjunction with SWO4919(1) – J/P 29524(04) - SH 152 – Washila County, Bridge over Taylor Creek, 1.5 miles west of the Caddo County line. This survey began full time on December 17, 2012.

Survey was completed on June 18, 2013.

Persoanel on this survey: G. S. Rhosds, Professional Land Surveyor J. M. Whittenberg, Transportation Specialist V D. R. Mason, Transportation Specialist V R. E. Huber, Transportation Specialist IV

- C. S. Hinda, Transportation Specialist IV
- J. G. Tuorer, Transportation Technician III

SURVEY ASSIGNMENT:

This survey was assigned to the El Rebo crow via an email from Mr. William Tackett, Assistant Chief of Surveys, to Mr. Kyle King, Area Manager, and I dated September 26, 2012. An emailed doted September 27, 2012 modified the provious email. A Survey Scope and Special Provisions Letter was received from Mr. Kyle King, dated November 20, 2012.

SWO 4864(1) -: SH 58 - Caddo County Historical Letter & Written Report Page 2 of 21

PURPOSE OF SURVEY:

The purpose of this survey is to obtain adequate information for the design and construction of a widening and resurfacing of the existing roadway.

SURVEY LIMITS:

Main Survey: Aerial Targets along SH 58, for this survey, began 0.5 miles south of 811 152 and extended northerly for 7 miles.

SH 152 Connection Survey: This survey began 1000 feet west of SH 58 and extended easi 2000 feet.

ALIGNMENTS:

A001: Main Survey - SH 58 The Centerline of Survey was reestablished along the existing centerline of SH 58 as shown on the SAP-775(2) Plans.

A002; Centerline Survey - SH 152 The Centerline of Survey was reestablished along the existing centerline of the SU 152 us shown on the SAP-552(12) Plans.

Previous Surveys & Projects relevant to this project:

PLANS

FAP NO, W.P.A. 7-84 - STATICHIGHWAY NO, 54(SH58) - CADDO CO. - 19

FAP NO, W.P.A. 7-84%A" - STATE HIGHWAY NO, 54(SH58) - CADDO CO, - 193

SAP NO, 552(12) - STATE HIGHWAY NO, 41(S11152) - CADDO CO. - 1948

SAP NO. 775(2) PARTS NO. 1, 2, & 3 - STATE HIGHWAY NO. 58 - CADDO CO. - 1951

E9967(2005-01-01)BP-CobbCreek - 120.5' Bridge Span (1980) 19991(2005-01-01)(3P-CobbCreek - 210.75" Bridge Span (1980)

SWO 3385 - SH 152 - Caddo County - SAP 8(94)PL, Alignment & Level Book 1 of 1 - Bridge Survey on Cobb Creek approximately 1.5 miles cast of Washita-Caddo County Line (June 22, (978)

The Centerline of Survey was reestablished along the existing centerline of the SH1152 as shown on the SAP-552(12) Plans. Stationing for SH1152, this survey was equated to said plans Station at the Southwest Corner of Section 32, TION, R13W, IM and as shown on SWO 3385 - SH 152 -Caddo County - SAP 8(94)PB, Bridge Survey on Cobb Creek, at Station 52+14.00, extending east without equation.

C	OKLAHO)	A DEP/	ARTMENT OF	TRAN	SPORTA	TION
	FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
		OKLA.				
	DESCRIPTION		REVISIONS	DATE		

SWO 4854(1) - SH 58 - Caddo County Historical Letter & Written Report

FIELD BOOKS

SWO 1454 - SH 41 - From Washita - Caddo County Line, East toward Binger to end of Bituminous Surface, Total Length of Survey 8.286 miles - Field Book No. 1 (February 13, 1948)

SWO 1704 - Papi, SAP 775(2) - SH 58 - Reservey from 814 41(SH152) north to US 66 at Hydro - Cadda County, Book 1 & Book 2 (February 2, 1951)

SWO 3181 - SH 152 - Caldo County - Project Engineering, Bridge Book 1 of 1 - Bridge Survey on Drain 5,1 miles east of the Washita Courty Line & Bridge Survey on Lake Creek 5.2 miles east of the Washita Courty Line (July 26, 1973)

STATIONING:

A001: Main Survey - SH 58

The Centrelling of Survey was reestabilished along the existing conterline of SH 58 as shown on the SAP-775(2) Plans, Stationing for SH 58, this survey was assigned Station 100100 at the BOP of this survey, at the Junction of SI158 and SI1152, extending north without equation.

A002: Centerline Survey - SH 152

HORIZONTAL CONTROL:

Horizontal control for this survey is based on the National Geodetic Survey's (NG8) Oklahoma State Plane Coordinate System, North American Datum (NAD) of 1983(2011), EPOCH - 2010.0, South Zone. The distances and coordinates on this survey are in US Survey Feet. All angles and bearings shown are in degrees, minutes and seconds. A Static Survey was processed from data obtained from the NGS Continuously Operating Reference Station's (CORS) web site, and data observed on control points for this survey. Following are the stations and points in which data was obtained or observed:

PLS	GSR		OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION				
DRAWN	JMW						
CHECKED			SURVEY DATA SHEET				
APPROVED							
CREW	EIRe	no	SW0				