OKLAHO)	AA DEPA	ARTMENT OF	TRAN	SPORTA	TION
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL	SHEET NO.	TOTAL SHEETS
	OKLA.				
DESCRIPTION		REVISIONS			DATE

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HORIZONTAL, CONTROL - Continued:

NGS PID FK0172, Station "X172"

KGS PID DE6755, CORS ID OKAO, Anadarko CORS ARP, NAD 85 (2011) (EPOCH 2010.0) KGS PID DE658, CORS ID OKCE, Clinkin CORS ARP, NAD 83 (2011) (EPOCH 2010.0) NGS PID DE6009, CORS ID OKDT, Okshana City CORS ARP, NAD 83 (2011) (IPOCH

ODOT Control Monument No. W-75-831 (7400 for SWO 4918(1) SH 152)

ODOT Control Monument No. W-75-832 (748): for SWO 4918(1) SH 152) ODOT Control Monument No. C-8-1 i 14 (7402 for SWO 4864(1) SH 58)

ODOT Centrol Monument No. C-8-1115 (7403 for SWO 4864(1) SH 58)

ODOT Control Monument No. C-8-11 6 (7404 for SWO 4864(1) SH 58) ODOT Control Monument No. C-8-1240 (7405 for SWO 480/41) SH 58)

ODOT Control Monument No. C-8-737 per SWO 3888(1) Survey by Danny R. Dees, Date August 15, 2003

ODOY Control Monument No. W-75-671 per SWO 4755(1) Survey by Grogory H. Gunning, Dere March 12, 2012

Note: Florizontal Control was constrained in OKAO, OKCL, OKDT, C-8-737 and W-75-671.

The Static and RTK GPS observations were collected with a Leica GPS System 500 and GS15. Double one hour static sessions, at a minimum, were observed on all primary control points. Two hour observations on primary control points were sent into the NGS Online Positioning User Service (OPUS) for reduction by them to further verify static computations. Secondary control was established by observing the same point from alternate primary control points. The mean of the secondary control point positions was used.

VERTICAL CONTROL:

Vertical Centrol for this survey is NGS North American Vertical Datum 1988 (NAVD88). ODOT Benchmarks & Control Monuments No. C-8-278, C-8-1114(7402), C-8-1115(7403), C-8-1116(7404), and C-8-1240(7405), were established via the Static GPS Survey. The survey was constrained vertically to NOS Station "X172", PID No. PK0172, ODOT Control Monument No. C-8-737 year SWO 3888(1) Survey by Danny R. Dean, Date August 15, 2003 and ODOT Control Monument No. W-75-671 per SWO 4755(1) Survey by Gregory II. Granning, Dato March 12, 2012. These manimisents encompass the project site. ODOY Control Monument No. C-8-278 found near the beginning of the project per SWO3215(1) Survey and ODOT Control monument No. C-8-1240 (7405 this survey) was established near the end of the project. A double run digital differential level line was started from BM No. 1, ODOT Control Monument No. C-8-278, described as an ODOT Brass Cap in Concrete Post, 48° LL of Sta. 102-57 on SH S8 this survey. Thence northerty along SH 58 to BM No. 9, heing ODOT Control Monument No. C-8-1114 (7402 this survey), described as a #8 x 30° Rebar driven flush with the ground, 69° Rt. of

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VERTICAL CONTROL - Continued:

YEARTE AL COPTION: Community
Sta. 174-14. The closure between these Contro: Monuments was 9,01 fear in this run of
approximately 1/4 miles. The allowable difference for a third order run of this distance would be 0.05 foot. Thence continuing northedy along SH 58, approximately 2.3 miles, to BM No. 22, heing ODOT Control Monument No. C-8-1115 (7403 this survey), described as a #8 x 30" Rebar driven thish with the ground, 338° Rt. of Sta. 284+45. The closure between these Control Monuments was 0.00 foot in this run of approximately 2.4 miles. The allowable difference for a third order run of this distance would be 0.07 foot. Though continuing northerly along SH 58. approximately 1.2 miles, to BM No. 28, being ODOT Control Manumert No. C-8-1116 (7404 this survey), described as a #8 \times 30° Rebar driven flush with the ground, 42° Lt. of Sta. 144–90. The closure between these Control Monumerus was 0.01 foot in this ren of approximately 1.2 miles. The allowable difference for a third order run of this distance would be 0.05 foot. Thereo continuing northerly along SH 58, approximately 1.5 miles, to BM No. 37, being ODOT Control Mamment No. C-8-1240 (7405 this survey), described as a #8 x 30° Rebardriven 0.5° below the ground, 57° Rt, of Soc. 445-06. The closure between these Control Monuments was 0.00 foot in this run of approximately 1.5 miles. The allowable difference for a third order run of this distance would be 0.06 foot.

PHOTO CONTROLS:

A total of 46 Photo Control Targets were established on this project. Profile shots were taken along the conterfine of SF 58 and SF 152. A separate Aerial ALG file with the coordinates and elevations and an Aerial DGN file of these have been archived on the ODOT Mainframe. Computer. A total of 79 OSSDA points were collected throughout the length of the project. Those points were taken to verify the aerial photography.

TOPOGRAPHY:

The following topography information was obtained during the course of this survey:

- 1. All dischage structures within 200 feet of the Survey Centerline
- a. Check shots were taken on drain flow lines crossing Survey Centerline obscured
- by vegetation or inundated by water at the time of the Aerial Photography.
 b, Flyw line profiles were taken to a distance of 500 feet right and left of the Survey Conterline in snezs obscured by vegetation or inundated by water at the time of Aerial Photography.
- 2. Gate widths along the existing Right of Way fences.
- Underground utilities within 200 feet of the Survey Centerline.
 Overhead wires/cables crossing the Survey Centerline.
- 5. Utility meters, valves hydrants, etc. within 200 feet of the Survey Centerline.
- Mull buxes within 200 feet of the Survey Centerline.
- Underground storage tenks within 200 feet of the Survey Centerline

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LAND TIES:

Section 2, Township 9 North, Range 13 West, L.M.:

Southwest Corner:

Found a 60d Nail 0,11 below the surface of the asphalt and two of the references per CCR by Darroll McCarther, B.S 1730, dated February 8, 1998. Suid menument closely fire references found. Heard noise in reference in tree, L.S high, east side of Thm. Distance was close to described distance. I accepted the 60d Nail for the corner and assigned it ODOT Momment No.

West Quarter Corner; Found a 60d Nail 0.1' below the surface of the asphalt and two of the references per CCR by Durrell McCarther, PLS 1130, datest February 8, 1998. Said monument closely fits references found. Heard noise in reference in tree, 0.5 high, east side of Elm. Distance was close to described distance, I accepted the 60d Nail for the corner and assigned it ODOT Monument No.

Section 3, Township 9 North, Range 13 West, I.M.;

Southwest Corner:

Pound contrast and or references to corner, east and south of this corner also per CCRs by Bill J. Casey, PLS 1122, dated March 20, 1981. I result this power in agreement with said CCR's. Corner appears to agree with local evidence has shown by Mr. Casey, Therefore I set a 44 Robar with Cap 0.5' deep and assigned said corner ODOT Monument No. C-8-1175.

South Quarter Corner; Found a #3 Rober 1.0 below the surface of the wead. Could not find any of the references per CORR by Bill J. Casecy, PLS 1122, dated March 20, 1981. Said mounted closely agrees with distance to fence corner as noted on COR, but fence corner is not the same size as noted. I accepted the #3 Robar for the corner and assigned it ODOT Monament No. C-8-1176.

West Ougiter Corner:

From a followith with surface of the asphalt road, by others, corner as found appears to agree with local evidence and ovidence of occupation has viewed from 2010 NAIP Imagery. I accepted the 60d Nail for corner and assigned said corner ODOT Monument No. C-8-1177.

PLS	GSR	OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION
DRAWN	JMW	SURVET DIVISION
CHECKED		SURVEY DATA SHEET
APPROVED		

CREW EIReno SWO 4864 (I) PROJECT NO. 24092(04) SHEET NO. S006