SW 1/4 SEC. 36, T. 39 S, R. 2 E, W.M.

SURVEY NARRATIVE

THIS SURVEY WAS MADE AS A RESULT OF THE OREGON DEPARTMENT OF TRANSPORTATION'S (ODOT) OR66: HARLEY LANDSLIDE (MP 11.80-12.00) IMPROVEMENT PROJECT. THE PURPOSE OF THIS SURVEY IS TO RECORD THE POSITIONS OF THE CONTROL POINTS THAT WERE USED TO MONUMENT THE PROJECT, RECOVER THE POSITIONS OF EXISTING MONUMENTS OF RECORD, RETRACE THE RIGHT OF WAY AND CONTROLLING CENTERLINE, AND MONUMENT THE RIGHT OF WAY ACQUIRED BY THE STATE OF OREGON IN INSTRUMENT NUMBER 2017-036062 OF THE OFFICIAL RECORDS OF JACKSON COUNTY, OREGON AND AS SHOWN ON ODOT DRAWING NUMBER 1R-4-1263. THIS SURVEY PERPETUATES THE ALIGNMENTS AND RIGHT OF WAY DEVELOPED FOR THE PROJECT IN CONFORMANCE WITH ORS CHAPTER 209, SECTION 155.

THE RIGHT OF WAY FOR GREEN SPRINGS HIGHWAY (OR 66) WAS ORIGINALLY ESTABLISHED BY COUNTY RESOLUTION AS RECORDED APRIL 7, 1920 IN COMMISSIONER'S JOURNAL VOLUME 17, PAGE 453. THE FINAL ORDER STATED A RIGHT OF WAY WIDTH OF 60.00'. ADDITIONAL RIGHT OF WAY WAS PURCHASED IN 1940 BY WARRANTY DEED TO ODOT IN VOLUME 224, PAGE 159. NO SURVEYS OF RECORD WERE FOUND AT THE JACKSON COUNTY SURVEYOR'S OFFFICE THAT SET ANY MONUMENTS OF RECORD OR RESOLVED THE RIGHT OF WAY THROUGHOUT THIS SURVEY'S LIMITS. AN INITIAL ATTEMPT WAS MADE AT LOCATING THE RIGHT OF WAY BY ROTATING THE RECORD DEED CALL TIE FROM THE SOUTH ½ CORNER OF SECTION 36 (T39S R2E) PER ODOT RW DRG. 1R-1-1311. THIS MAP REFERENCES THE CENTERLINE AND PARCEL TO THE SAME THE SOUTH ½ CORNER. WE SUBSEQUENTLY RECOVERED THE SOUTH ½ CORNER WHICH WAS SET BY BLM IN THE 1960'S WHICH WAS ESTABLISHED LATER THAN THE TIE SHOWN ON 1R-1-1311 (1933). AFTER ROTATING THE RECORD ALIGNMENT BASED ON THIS TIE, I FOUND THAT IT MISSED THE PHYSICAL ROAD CENTERLINE BY APPROXIMATELY 150'. I CONCLUDED THAT THE CORNER CALL WAS ERRONEOUS AND CHOSE TO BEST FIT THE RECORD TANGENTS TO TIE AVERAGE PAINTED CENTERLINE STRIPING. I CHOSE TO HOLD THE PAINTED CENTER LINE OVER THE EDGE OF PAVEMENT AS BEST EVIDENCE OF THE ALIGNMENT AS THE PAVEMENT EDGES WERE GENERALLY NOT PARALLEL AND CONSISTENT THROUGHOUT THE PROJECT. THIS RESULTED IN A REASONABLE FIT WITH THE TANGENTS BUT WERE FOUND TO NOT BE CONSISTENT WITH THE CONSTRUCTED HIGHWAY CURVES. STATIONING FOR GREEN SPRINGS HIGHWAY WAS HELD PER THE RECORD AS SHOWN ON ODOT RW DRG. 3B-23-17.

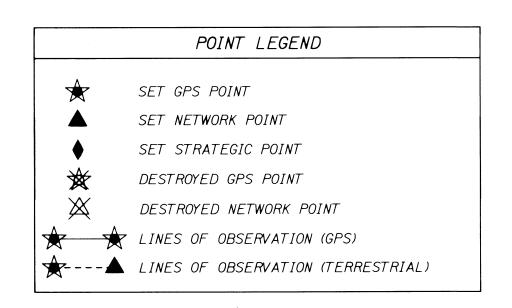
THE PROJECT CONTROL WAS ORIGINALLY ESTABLISHED BY A GPS AND TERRESTRIAL NETWORK IN DECEMBER OF 2015. THE NETWORK WAS PROCESSED IN (LEICA GEOMATICS OFFICE) LGO WHICH YIELDED ACCEPTABLE RESULTS. THE NETWORK WAS PROCESSED HOLDING THREE ORGN STATIONS: ASHL, KFRC, AND P784 FIXED IN POSITION. POINTS 1890601, 1890606, AND 1890609 WERE OBSERVED IN STATIC OBSERVATION FOR TWO 2 HOUR SESSIONS FROM THE ORGN STATIONS. TWO ADDITIONAL 20 MINUTE SESSIONS WERE OBSERVED ON SAID PROJECT STATIONS TO HELP TIGHTEN UP THE ERROR ELLIPSES ON THE CONTROL. THE RESULTING ERROR ELLIPSES AT THE 95% CONFIDENCE INTERVAL ALL MEASURED 0.03' OR LESS.

BASIS OF BEARINGS AND COORDINATES FOR THIS SURVEY ARE BASED ON THE OREGON COORDINATE REFERENCE SYSTEM (OCRS), SISKIYOU ZONE, NAD 83(2011) EPOCH 2010.00. THIS SURVEY USES INTERNATIONAL FEET UNITS.

THE VERTICAL DATUM FOR THIS PROJECT IS NAVD88 AND IS BASED ON THE GPS DERIVED ELEVATION OF 3,163.14' FOR CONTROL POINT 1890601. THE ELEVATIONS ON THE REMAINING CONTROL POINTS WERE ESTABLISHED BY A DIGITAL LEVEL CIRCUIT FROM CONTROL POINT 1890601.

THIS SURVEY WAS PERFORMED FROM DECEMBER OF 2016 THROUGH OCTOBER OF 2017. THE SURVEY EQUIPMENT CONSISTED OF ONE LEICA MS60 TOTAL STATION, 2 LEICA GS14 GPS RECEIVERS, ONE LEICA GPS 1200 SYSTEM, AND ONE LEICA CS15 DATA COLLECTOR.

NETWORK POINTS SET DURING THIS SURVEY DO NOT REPRESENT PROPERTY LINES OR RIGHT OF WAY LINES. THEY ARE INTENDED TO PERPETUATE THE ALIGNMENTS AND RIGHT-OF-WAY DEVELOPED FOR THIS PROJECT IN CONFORMANCE WITH ORS CHAPTER 209, SECTION 155.



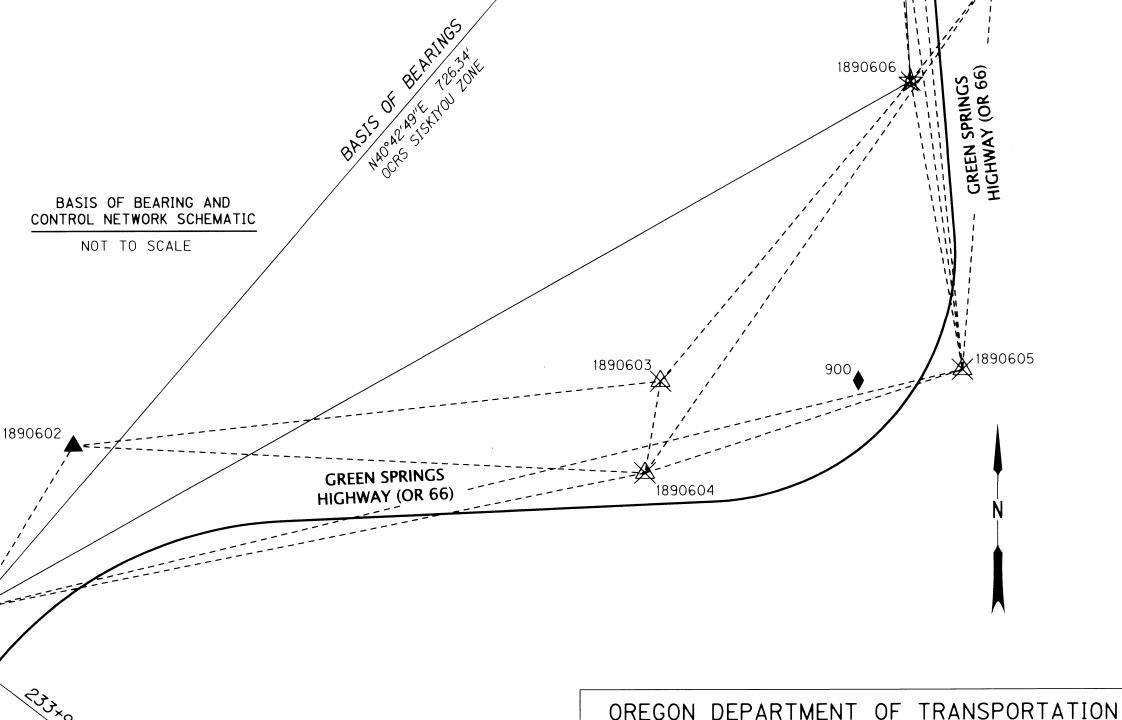
GEODETIC DATA TABLE OCRS=OREGON COORDINATE REFERENCE SYSTEM **OCRS OCRS** LATITUDE (N) LONGITUDE (W) GEOID SEP. ORTHO.HT. NORTHING **EASTING** 3163.14 61937**.**27 45494.55 | 42° 07′ 47.45694″ N | 122° 32′ 11.67002″ W 3086.00 -77**.14** 1890601 -77.12 3123.07 45983.37 | 42° 07′ 50.16535″ N | 122° 32′ 05.18186″ W *3045.95* 1890606 62211.76 1890609 62487.82 45968.32 | 42° 07′ 52.89208″ N | 122° 32′ 05.37943″ W 3030.62 -77.11 3107.73 1.96 SIGMA (95%) CONFIDENCE LEVEL LIMITS (GPS) SEMI MAJOR SEMI MINOR ORIENTATION * 1890601 0.03 0.02 -1° 0.03 0.02 1890606 1890609 0.03 0.02 5°

1.96 SIGMA (95%) CONFIDENCE LEVEL LIMITS (TERRESTRIAL)

PT. NO.	SEMI MAJOR	SEMI MINOR	ORIENTATION *	
1890602	0.01	0.01	-4°	
1890603	0.01	0.01	-60°	
1890604	0.01	0.01	-17°	
1890605	0.01	0.01	41°	
1890607 0.01		0.01	-23°	
1890608	0.01	0.01	90°	

* NORTH AZIMUTH

* NORTH AZIMUTH



REGISTERED

PROFESSIONAL LAND SURVEYOR

OREGON

JULY 15, 2003 ANDREW DAVID AUSLAND

56136

EXPIRES: 12/31/2017

Al Park

CONTROL POINT TABLE

OCRS = OREGON COORDINATE REFERENCE SYSTEM

1890601

	I PI NO I	<i>OCRS</i>	<i>OCRS</i>	NAVD 88	DATE	DESCRIPTION		
		NORTHING	EASTING	ELEVATION		DESCRITTION		
	1890601	61937.27	<i>45494.</i> 55	3163.14	12/8/2015	SET 5/8" IRON ROD w/ 2" ALUMINUM CAP "ODOT CONTROL POINT 1890601"		
	1890602	62022 . 6 4	45546.36	3158.67	1/11/2016	SET 5/8" IRON ROD w/ 2" ALUMINUM CAP "ODOT CONTROL POINT 1890602"		
	1890603	62055.84	45852.64	3123.76	10/3/2017	DESTROYED BY CONSTRUCTION		
	1890604	62007.93	<i>45844.</i> 36	3143.26	10/3/2017	DESTROYED BY CONSTRUCTION		
	1890605	62061.79	4 6009 . 97	3132.85	10/3/2017	DESTROYED BY CONSTRUCTION		
	1890606	62211.76	4 598 3. 37	3123.07	10/3/2017	DESTROYED BY CONSTRUCTION		
	1890607	62266.98	4 6026 . 57	3128.22	1/11/2016	SET 5/8" IRON ROD w/ 2" ALUMINUM CAP "ODOT CONTROL POINT 1890607"		
F	1890608	62342.64	45973.13	<i>3114.</i> 56	1/11/2016	SET 5/8" IRON ROD w/ 2" ALUMINUM CAP "ODOT CONTROL POINT 1890608"		
	1890609	62 4 87 . 82	45968.32	3107.73	12/8/2015	SET 5/8" IRON ROD w/ 2" ALUMINUM CAP "ODOT CONTROL POINT 1890609"		
	900	62056.01	4 5955.77		10/3/2017	SET MAG NAIL W/ WASHER "ODOT"		

ASSESSOR'S MAP NO. 39 2E 36

HORIZONTAL CONTROL, RECOVERY, RETRACEMENT &
RIGHT-OF-WAY BOUNDARY MONUMENTATION MAP
OR66: HARLEY LANDSLIDE (MP 11.80-12.00)
GREEN SPRINGS HIGHWAY (OR 66)
JACKSON COUNTY

KEY NO. 18906
REGION 3 TECH CENTER
100 ANTELOPE ROAD
WHITE CITY, OREGON, 97503

DESIGNED BY: A. AUSLAND DRAFTED BY: M. CHACON

DECEMBER 21, 2017 SHEET 1 OF 2

CHK'D BY:L.MILES

This survey consists of:

JACKSON COUNTY

SURVEYOR

243+04.59 P.C.

1890607

1890609

1890608

22437

