

36 25 R25E WHEELER COUNTY
31 30 R26E GRANT COUNTY

N.E. 1/4, S.E. 1/4, SEC. 30, T11S, R26E, W.M.

SURVEY NARRATIVE

THE PURPOSE OF THIS SURVEY IS TO ESTABLISH HORIZONTAL AND VERTICAL CONTROL, RESOLVE THE LOCATION OF THE CENTER LINE AND RIGHT-OF-WAY, AND TO DOCUMENT THE LOCATION OF EXISTING SURVEY MONUMENTATION IN DANGER OF DESTRUCTION ON STATE HIGHWAY 5, (OR 19), AT GOOSE ROCK BRIDGE. THE SURVEY WAS DONE IN PREPARATION FOR THE CONSTRUCTION OF A NEW BRIDGE OVER THE JOHN DAY RIVER AT THIS LOCATION. THE SENIOR DOCUMENT FOR THE CENTER LINE AND RIGHT OF WAY LOCATION FOR THIS SECTION OF HIGHWAY 19 IS THE OREGON DEPARTMENT OF TRANSPORTATION, (ODOT), ROLL MAP # 3B-19-12. THIS MAP IS TITLED "OREGON STATE HIGHWAY DEPARTMENT, JOHN DAY HIGHWAY, WHEELER COUNTY LINE TO VALADES RANCH" DATED JULY 1921. IT DEPICTS THE ALIGNMENT OF THE HIGHWAY BEFORE THE CONSTRUCTION OF THE NEW BRIDGE OVER THE RIVER AND SUBSEQUENT REALIGNMENT OF THE HIGHWAY IN 1941. USERS OF THAT MAP ARE INSTRUCTED TO SEE ODOT MAP 8B-25-14, IR-2-1026 AND 4F-16-2. 8B-25-14 BEGINS AT A POINT APPROXIMATELY 400 FEET SOUTH OF THE EXISTING BRIDGE AND PROCEEDS SOUTH THROUGH WHAT IS NOW THE JOHN DAY FOSSIL BEDS NATIONAL MONUMENT. IT DOES NOT DESCRIBE THE GEOMETRY OF THE HIGHWAY OR RIGHT OF WAY WIDTHS IN THE VICINITY OF THE BRIDGE. EXAMINATION OF 4F-16-2 AND IR-2-1026 SHOW THE ALIGNMENT GEOMETRY AND RIGHT OF WAY WIDTHS FOR THE PROPOSED STATE HIGHWAY. THESE DOCUMENTS WERE OBVIOUSLY USED IN THE PREPARATION OF THE RIGHT OF WAY DEEDS FOR THE ACQUISITION OF THE NEW RIGHT-OF-WAY REQUIRED FOR THE CONSTRUCTION OF THE EXISTING BRIDGE IN 1941. COMPARISON OF THE EXISTING PHYSICAL LOCATION OF THE BRIDGE AND HIGHWAY REVEAL THAT SUBSTANTIAL CHANGES WERE MADE TO THE ALIGNMENT DURING CONSTRUCTION OF THE BRIDGE WHICH WERE NEVER DOCUMENTED IN THE RIGHT OF WAY MAPS, OR AT LEAST WERE NOT DISCOVERED BY THE RESEARCH PERFORMED FOR THIS SURVEY. THE CENTER LINE AS SHOWN ON THIS SURVEY WAS CREATED USING ODOT DRAWINGS IR-3-1625, IR-2-1026, 8B-25-14 AND THE PHYSICAL LOCATION OF THE HIGHWAY. THE ALIGNMENT IS TIED AT ITS NORTH END TO THE LOCATION SHOWN ON IR-3-1625 AND ON THE SOUTH TO MAP 8B-25-14. THE RIGHT-OF-WAY WIDTHS AND LOCATION WERE TAKEN FROM IR-2-1026, USING THE WIDTHS SHOWN ON THAT DRAWING AND PLACING THE CHANGES IN WIDTH AT THE PROPER DISTANCE FROM THE BRIDGE AS IT WAS CONSTRUCTED. THE CENTER LINE IN THE VICINITY OF THE BRIDGE WAS MADE TO CONFORM TO THE PHYSICAL CENTER LINE OF THE HIGHWAY. THE HORIZONTAL CONTROL NETWORK WAS ESTABLISHED USING CONTINUOUSLY OPERATING REFERENCE STATIONS "REDMOND" AND "SENECA 1". THE VERTICAL COMPONENT OF THE NETWORK IS NAVD83 AS DERIVED BY DIFFERENTIAL LEVELING FROM ODOT BENCHMARK "RTE 19 BM", DESCRIBED HEREON. THE HORIZONTAL COORDINATES ARE EXPRESSED IN AN ODOT "LOCAL DATUM PLANE" (L.D.P.), RELATIVE TO THE OREGON STATE PLANE COORDINATE SYSTEM, NORTH ZONE, NAD83(CORS). TO RETURN THE COORDINATES TO GRID MULTIPLY BOTH THE NORTH AND EAST COORDINATE BY THE COMBINED SCALE FACTOR OF 0.999843147. ALL WORK WAS PERFORMED IN THE FALL OF 2006 USING A TRIMBLE 5600 TOTAL STATION WITH A STANDARD ANGULAR DEVIATION OF 3" AND +/- 3mm + 3ppm IN DISTANCE AND THREE TOPCON DUAL FREQUENCY GPS RECEIVERS WITH A STANDARD DEVIATION OF +/- 3mm + 0.5ppm (x baseline length).

LEGEND

- FOUND MONUMENT NOTED IN TABLE
- ☆ GPS STATION
- ▲ NETWORK POINT
- EDGE OF PAVEMENT
- RIGHT-OF-WAY
- X- FENCE
- ▲—▲ LINES OF OBSERVATION

CONFIDENCE LEVEL LIMITS

POINT ID	SEMI MAJOR	SEMI MINOR	ORIENTATION*
501	0.058	0.045	168°48'
502	0.033	0.031	2°18'
503	0.033	0.031	177°22'
504	0.046	0.039	169°01'

* NORTH AZIMUTH

FIXED POINTS NOT SUBJECT TO LEAST SQUARES
ADJUSTMENT OR CONFIDENCE LEVEL ANALYSIS:
REDMOND
SENECA 1

NETWORK POINT COORDINATE TABLE

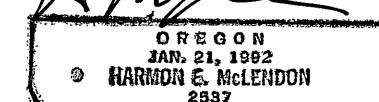
PT. NO.	LDP NORTHING	LDP EASTING	ELEV	DESCRIPTION
501	335662.9417	8427136.1388	2160.23	5/8 x 30 INCH IRON ROD WITH 2 INCH ALUMINUM CAP MARKED "NET 1 APA OR2537 WA35140" CARSONITE POST ALONGSIDE
502	335767.6992	8427265.5651	2143.99	5/8 x 30 INCH IRON ROD WITH 2 INCH ALUMINUM CAP MARKED "NET 2 APA OR2537 WA35140" CARSONITE POST ALONGSIDE
503	337233.3331	8427231.3697	2144.57	5/8 x 30 INCH IRON ROD WITH 2 INCH ALUMINUM CAP MARKED "NET 3 APA OR2537 WA35140" CARSONITE POST ALONGSIDE
504	337359.3498	8427355.7902	2142.63	5/8 x 30 INCH IRON ROD WITH 2 INCH ALUMINUM CAP MARKED "NET 4 APA OR2537 WA35140" CARSONITE POST ALONGSIDE

RECOVERED MONUMENT LIST

PT. NO.	LDP NORTHING	LDP EASTING	STATION	OFFSET	DATE	DESCRIPTION & REFERENCE DOCUMENTS
901	333504.9503	8423944.2901	S.W. CORNER	SECTION 30	10/2006	FOUND 60D NAIL IN MOUND OF STONE, 13' WEST OF NORTH-SOUTH FENCE IN OPEN SADDLE OF RIDGE RUNNING EAST-WEST. NO VISIBLE MARKINGS ON STONES CS#716
902	338931.5054	8429090.5103	N.E. CORNER	SECTION 30	10/2006	FOUND 1 INCH IRON PIPE WITH 3 INCH BRASS CAP PROPERLY MARKED BY GRANT COUNTY SURVEYOR 1979 A 16 INCH JUNIPER WITH OLD BLAZE BEARS WESTERLY 120 FEET+- CS#571 AND OTHERS
509	336047.8850	8427123.3231	899+05.09	33.35 LEFT	10/2006	FOUND 3 INCH DIA. BRASS CAP ON 6"x 6" CONCRETE POST "RTE 19 BM" PID# QC0527 ELEV=2149.52
511	336811.3704	8427091.6902	807+82.57	12.10 RIGHT	10/2006	FOUND 3 INCH BRASS DISC AT N.W. CORNER OF BRIDGE IN CONCRETE CURB STAMPED "STATE HWY DEPT BM # A125" ELEV=2147.16'
512	335995.3630	8427013.9302	899+48.44	79.99 RIGHT	10/2006	FOUND 5/8 INCH SMOOTH IRON ROD IN ROW FENCE, WITNESS POST ALONGSIDE
510	336007.9934	8427143.2856	899+46.49	49.97 LEFT	10/2006	FOUND 5/8 INCH SMOOTH IRON ROD IN ROW FENCE, WITNESS POST ALONGSIDE

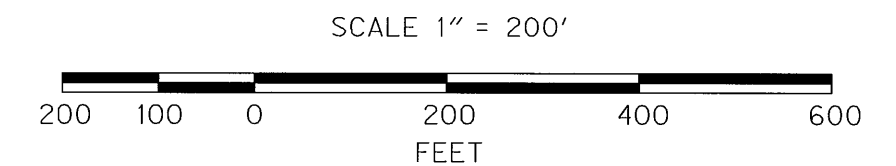
REFERENCE DOCUMENTS

3B-19-12
8B-25-14
4F-16-2
1R-2-1026
1R-3-1625
3V-185



Remains 12/31/06

BASIS OF BEARING IS THE OREGON STATE
PLANE COORDINATE SYSTEM, NORTH ZONE, NAD83
AS DERIVED BY GPS OBSERVATIONS BETWEEN
THE TWO CORS STATIONS SHOWN HEREON.



RECEIVED AND
FILED

SEPT 10, 2007
OFFICE OF COUNTY SURVEYOR
Attest: [Signature]

ANDERSON-PERRY & ASSOCIATES
1901 N. FIR ST., LA GRANDE, OR. 97850

HORIZONTAL CONTROL, RECOVERY AND RETRACEMENT SURVEY
BRIDGE 02655, GOOSE ROCK
HIGHWAY 5, (OR 19), MP 119.46,
GRANT COUNTY

FOR O.B.D.P. & O.D.O.T. REGION 5
1165 UNION ST. NE STE 200
SALEM, OR., 97301

SEPT., 2007
SCALE: AS SHOWN
SHEET 1 OF 1

MAP OF SURVEY NO. 1822