

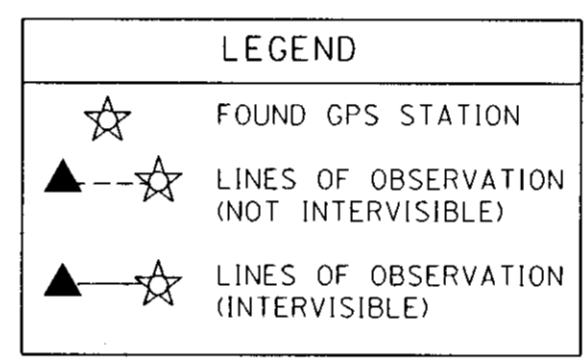
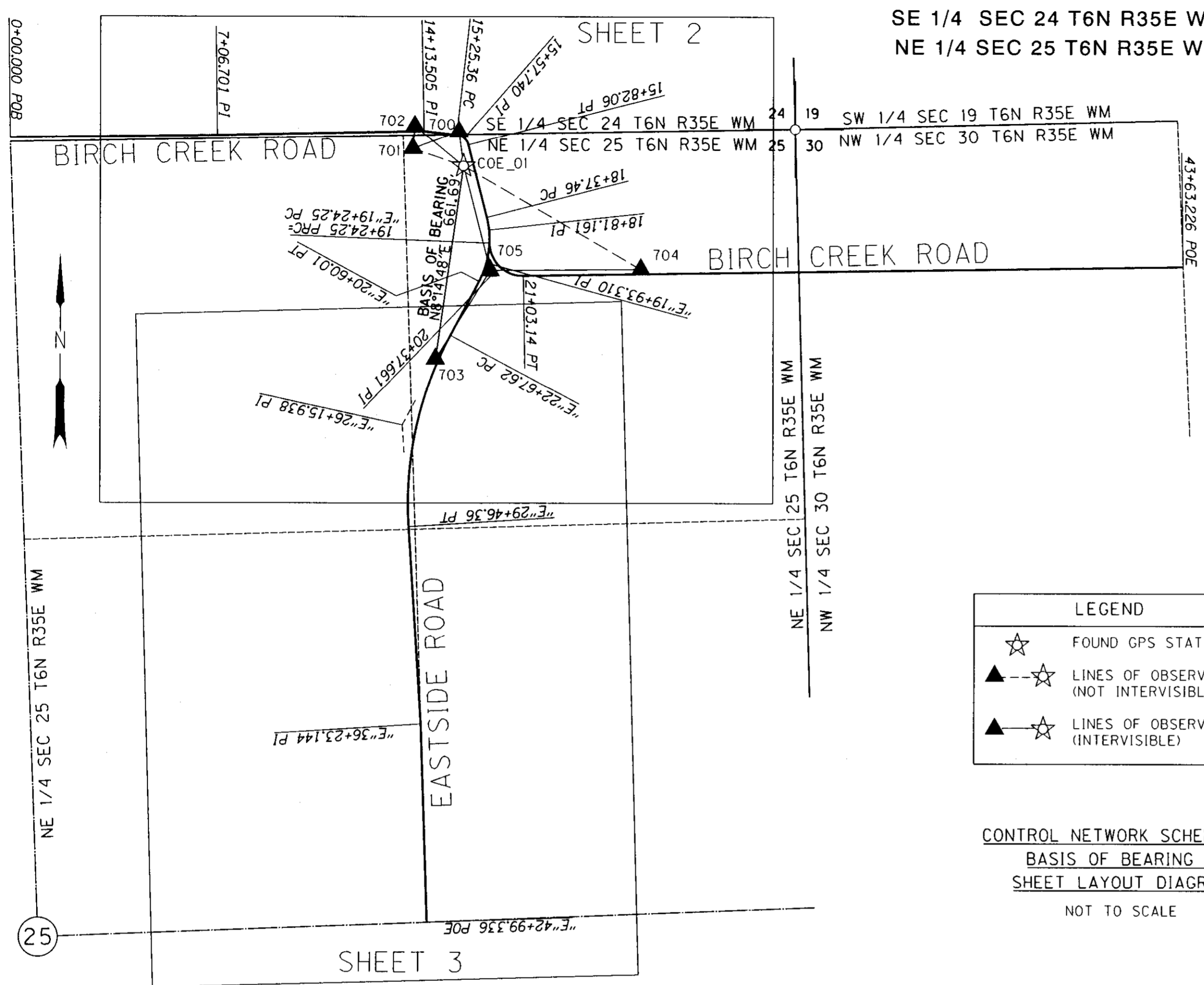
SE 1/4 SEC 24 T6N R35E WM  
NE 1/4 SEC 25 T6N R35E WM

SHEET INDEX

1. NARRATIVE, REFERENCES, CONTROL NETWORK SCHEMATIC, BASIS OF BEARING, SHEET LAYOUT AND SHEET INDEX
- 2.-3. SURVEY

REFERENCES

1. SURVEY NO. I-165-B BY DAVID H. KRUMBEIN, DATED DEC. 10, 1974
2. SURVEY NO. 03-23-C BY PAUL P. TOMKINS, DATED JUNE 1, 2002
3. SURVEY NO. 08-49-B BY WILLIAM R. WELLS, DATED FEB. 20, 2008
4. SURVEY NO. 12-118-C BY GARY R. ROBERTS, FILED AUG. 29, 2012
5. BOARD ORDER NO. RD2014-16, DOCUMENT NO. 2014-6200814, FILED SEPT. 19, 2014
6. BOARD ORDER NO. RD2014-19, DOCUMENT NO. 2014-6200817, FILED SEPT. 19, 2014



CONTROL NETWORK SCHEMATIC,  
BASIS OF BEARING &  
SHEET LAYOUT DIAGRAM  
NOT TO SCALE

**BIRCH CREEK ROAD (COUNTY ROAD NO. 550)**  
THIS RESOLUTION COVERS A PORTION OF BIRCH CREEK ROAD FROM TUM-A-LUM ROAD EAST TO TELEPHONE POLE ROAD. THE RECORD SHAPE OF THE ALIGNMENTS FOR BIRCH CREEK ROAD AND EASTSIDE ROAD SHOWN ON LEGALIZATION SURVEY NO. 12-118-C, UMATILLA COUNTY SURVEY RECORDS, WERE RECREATED, SCALED TO GROUND DISTANCES USING THE SCALE FACTOR 0.99995297 SHOWN ON SAID LEGALIZATION SURVEY, AND POSITIONED BY HOLDING THE RAILROAD SPIKE FOUND AT THE INTERSECTION OF TUM-A-LUM ROAD WITH BIRCH CREEK ROAD (POINT 1001) AND ROTATING TO THE RAILROAD SPIKE FOUND IN THE CENTERLINE OF EASTSIDE ROAD AT THE INTERSECTION WITH THE SOUTH LINE OF SECTION 25 (POINT NO. 1006). RECORD STATIONING WAS HELD AT 0+00.00 B.O.P. AT THE INTERSECTION OF TUM-A-LUM ROAD WITH BIRCH CREEK ROAD. THE BOARD ORDER NO. RD2014-16 WHICH LEGALIZED BIRCH CREEK ROAD (COUNTY ROAD NO. 550) IS RECORDED AS DOCUMENT NO. 2014-6200814, UMATILLA COUNTY DEED RECORDS. RIGHT OF WAY WIDTHS WERE DETERMINED FROM SAID BOARD ORDER.

**EASTSIDE ROAD (COUNTY ROAD NO. 575)**  
THIS RESOLUTION COVERS A PORTION OF EASTSIDE ROAD (COUNTY ROAD 575) FROM BIRCH CREEK ROAD SOUTHERLY APPROXIMATELY 2375 FEET. THE RECORD SHAPE OF THE ALIGNMENT FOR EASTSIDE ROAD SHOWN ON LEGALIZATION SURVEY NO. 12-118-C, UMATILLA COUNTY SURVEY RECORDS, WAS RECREATED, SCALED TO GROUND DISTANCES USING THE SCALE FACTOR 0.99995297 SHOWN ON SAID LEGALIZATION SURVEY, AND POSITIONED BY HOLDING THE INTERSECTION WITH THE LEGALIZED CENTERLINE ALIGNMENT FOR BIRCH CREEK ROAD AND ROTATING TO THE RAILROAD SPIKE FOUND IN THE CENTERLINE OF EASTSIDE ROAD AT THE INTERSECTION WITH THE SOUTH LINE OF SECTION 25 (POINT NO. 1006). RECORD STATIONING WAS HELD AT RECORD GRID STATION 19+24.16 P.R.C. (GROUND STATION "E"19+24.25 P.R.C.). AT THE INTERSECTION OF EASTSIDE ROAD WITH BIRCH CREEK ROAD, THE BOARD ORDER NO. RD2014-19 WHICH LEGALIZED EASTSIDE ROAD (COUNTY ROAD NO. 575) IS RECORDED AS DOCUMENT NO. 2014-6200817, UMATILLA COUNTY DEED RECORDS. RIGHT OF WAY WIDTHS WERE DETERMINED FROM SAID BOARD ORDER.

CONTROL NARRATIVE

PROJECT: BIRCH CREEK ROAD: WALLA WALLA RIVER BRIDGE REPLACEMENT  
LOCATION: CITY OF MILTON FREEWATER, UMATILLA COUNTY  
ODOT KEY NUMBER: 18420  
HORIZONTAL SURVEY DATUM - NAD 83(2011) EPOCH 2010 (INTERNATIONAL FEET)  
VERTICAL SURVEY DATUM - NAVD 88 (INTERNATIONAL FEET)

GPS HORIZONTAL CONTROL SURVEY

PRIMARY CONTROL WAS ESTABLISHED ON THIS PROJECT BY USING GPS AND THE ONLINE POSITIONING USER SERVICE (OPUS) TO ESTABLISH A POSITION ON POINT COE\_01. A SUBSEQUENT RTK GPS SURVEY WAS PERFORMED USING COE\_01 AS A BASE POINT TO ESTABLISH POSITIONS ON CONTROL POINTS 700-705. THE BEARINGS SHOWN ON THIS SURVEY ARE GRID BEARINGS BASED ON THE OREGON STATE PLANE COORDINATE SYSTEM, NAD83 (2011) EPOCH 2010. COORDINATES WERE MOVED TO GROUND BY UTILIZING A LOCAL DATUM PLANE (LDP) COORDINATE SYSTEM. TO CONVERT THE PROJECT LDP COORDINATES TO THE OREGON COORDINATE SYSTEM, NORTH ZONE, NAD83 (2011) EPOCH 2010, MULTIPLY THE VALUES BY A COMBINED FACTOR OF 0.99995606.

NETWORK POINT COORDINATE TABLE

PT ID	LDP NORTHING	LDP EASTING	DATE	DESCRIPTION
COE_01	849242.49	8742413.67	6/13/14	FOUND 2-1/2" ALUMINUM CAP MARKED AS SHOWN
700	849360.25	8742398.37	6/13/14	SET MAGNAIL IN PAVEMENT
701	849302.77	8742241.16	6/13/14	SET 12" NAIL
702	849379.59	8742247.38	6/13/14	SET MAGNAIL IN PAVEMENT
703	848587.65	8742318.76	6/13/14	SET 12" NAIL
704	848892.44	8743020.47	6/13/14	SET 12" NAIL
705	848888.43	8742505.66	6/13/14	SET HUB & TACK

NARRATIVE

THE PURPOSE OF THIS SURVEY IS TO RESOLVE THE FIELD LOCATION OF THE EXISTING RIGHT OF WAY FOR A PORTION OF BIRCH CREEK ROAD IN THE VICINITY OF THE EXISTING BRIDGE CROSSING THE WALLA WALLA RIVER IN MILTON FREEWATER, OREGON. THIS SURVEY IS ALSO TO PERPETUATE ANY EXISTING SURVEY MONUMENTS THAT LIE WITHIN THE PROJECT FOOTPRINT WHICH MAY BE DESTROYED DUE TO A FUTURE BRIDGE REPLACEMENT PROJECT. PERPETUATION OF THE MONUMENT LOCATIONS WAS ACCOMPLISHED BY TYING THE MONUMENTS TO THE PROJECT CONTROL NETWORK. THIS SURVEY WAS MADE AT THE REQUEST OF THE OREGON DEPARTMENT OF TRANSPORTATION. THIS SURVEY MEETS THE REQUIREMENTS FOR A RECOVERY SURVEY AS OUTLINED IN THE OREGON REVISED STATUTES, CHAPTER 209.155.

THIS SURVEY WAS PERFORMED USING INTERNATIONAL FEET UNITS.

THIS SURVEY WAS PERFORMED IN JUNE 2014. THE SURVEY EQUIPMENT USED CONSISTED OF LEICA DUAL FREQUENCY GPS RECEIVERS (GPS1200 AND GS14), A LEICA TS-15 ROBOTIC TOTAL STATION AND A LEICA VIVA DATA COLLECTOR.

RECEIVED BY  
Umatilla County Surveyor  
Date: 11/10/2014  
Rec'd By: Gary Roberts  
No.: 14-138-B

REGISTERED PROFESSIONAL LAND SURVEYOR  
*Bret Elithorp*  
OREGON JAN. 14, 2003  
BRET N. ELITHORP #63148  
RENEWAL DATE: DEC. 31, 2015  
SIGNED: 11/6/2014

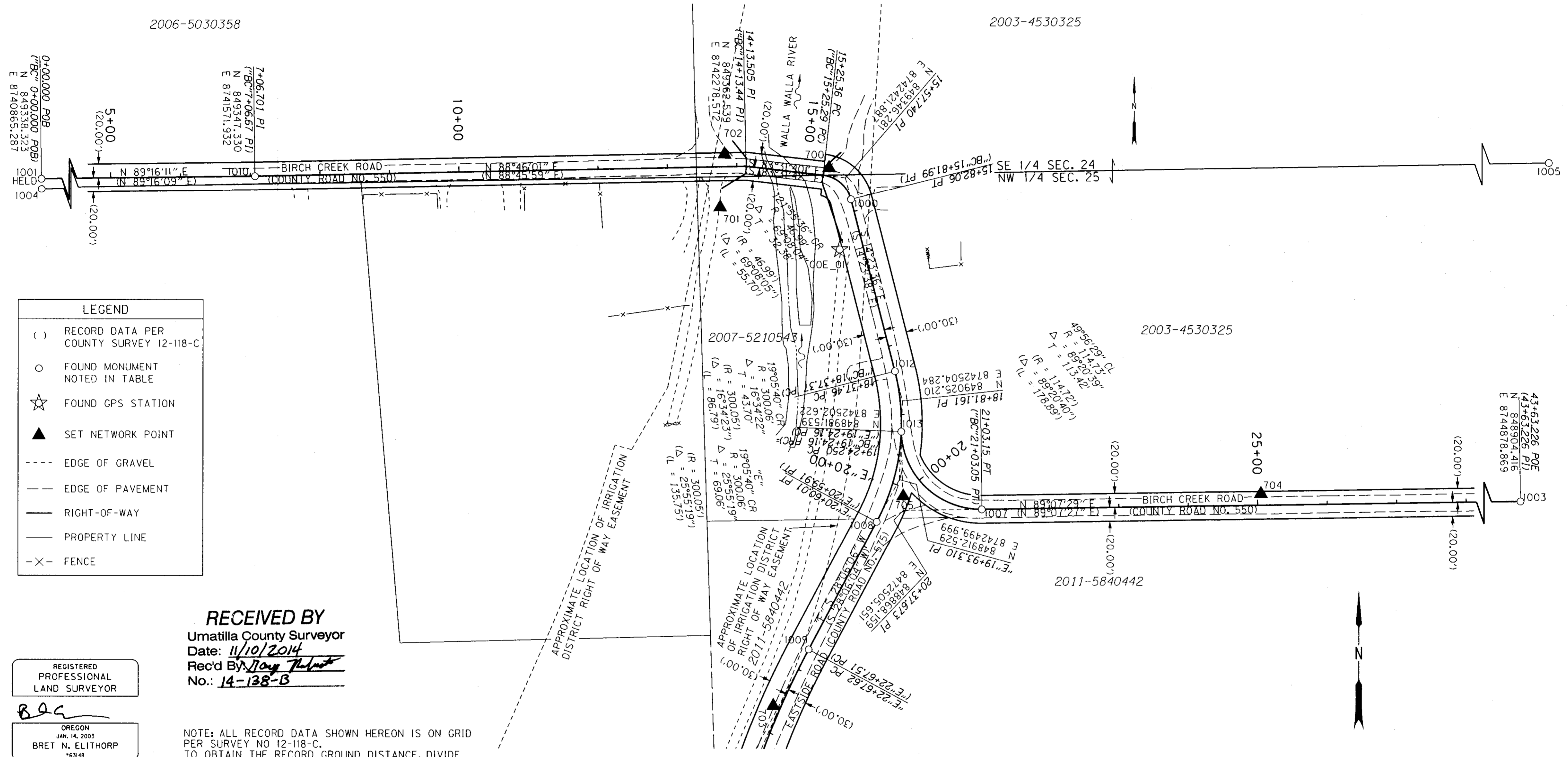
I, BRET N. ELITHORP, STATE THAT THIS SURVEY WAS PREPARED USING HEWLETT-PACKARD PRODUCT \*516450 ON CONTINENTAL \*JPC4M2 POLYESTER FILM.  
*BAC* 11/6/14  
BRET N. ELITHORP DATE

OREGON DEPARTMENT OF TRANSPORTATION  
HORIZONTAL CONTROL, RECOVERY AND RETRACEMENT MAP  
BIRCH CREEK RD: WALLA WALLA RIVER BRIDGE REPLACEMENT  
BIRCH CREEK ROAD  
UMATILLA COUNTY  
FOR ODOT REGION 5  
3012 ISLAND AVENUE  
LA GRANDE, OR 97850  
NOVEMBER 6, 2014  
SHEET 1 OF 3

SE 1/4 SEC 24 T6N R35E WM  
NE 1/4 SEC 25 T6N R35E WM

2006-5030358

2003-4530325



**LEGEND**

- ( ) RECORD DATA PER COUNTY SURVEY 12-118-C
- FOUND MONUMENT NOTED IN TABLE
- ☆ FOUND GPS STATION
- ▲ SET NETWORK POINT
- EDGE OF GRAVEL
- EDGE OF PAVEMENT
- RIGHT-OF-WAY
- PROPERTY LINE
- X- FENCE

**RECEIVED BY**  
Umatilla County Surveyor  
Date: 11/10/2014  
Rec'd By: Tony Thelmer  
No.: 14-138-B

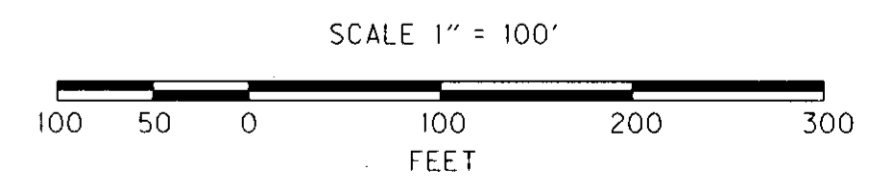
REGISTERED PROFESSIONAL LAND SURVEYOR

OREGON  
JAN. 14, 2003  
BRET N. ELITHORP  
\*63148

NOTE: ALL RECORD DATA SHOWN HEREON IS ON GRID PER SURVEY NO 12-118-C. TO OBTAIN THE RECORD GROUND DISTANCE, DIVIDE THE GRID DISTANCE BY 0.99995297.

RENEWAL DATE: DEC. 31, 2015  
SIGNED: 11/6/2014

SEE SHEET 3



RECOVERED MONUMENT LIST

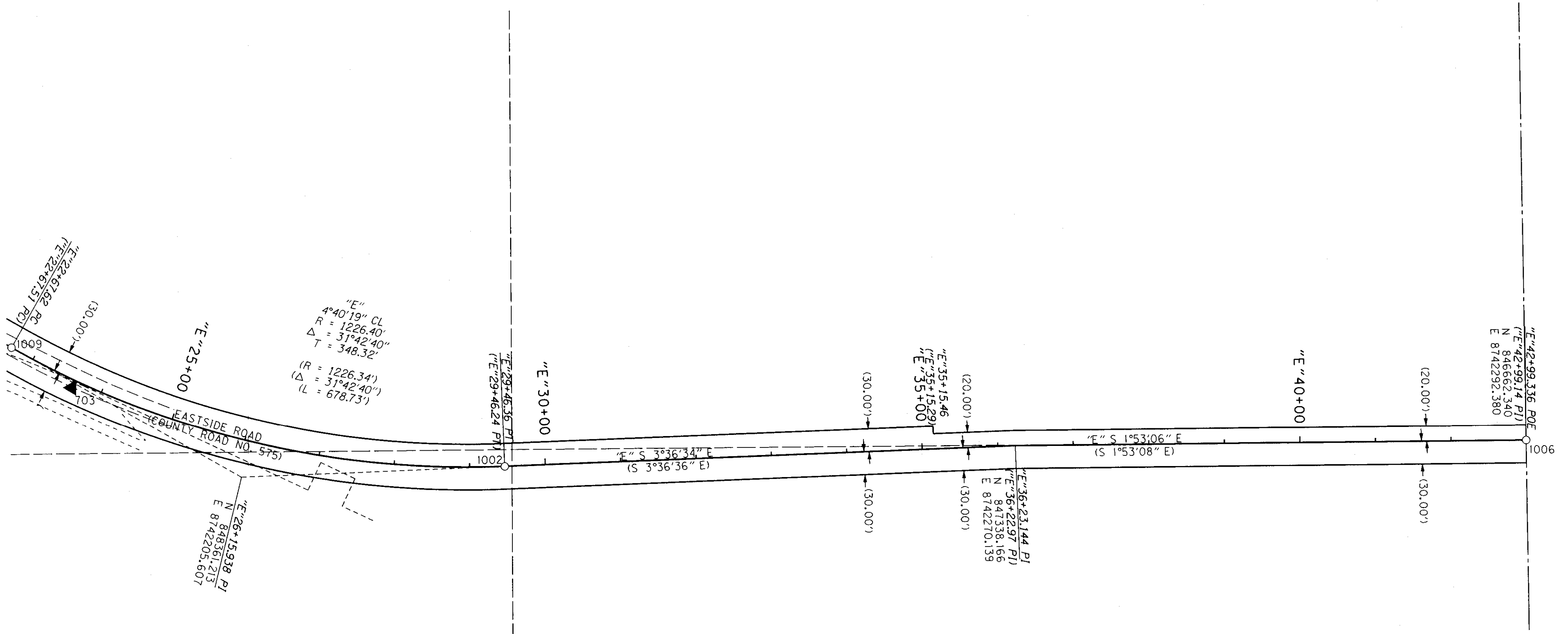
PT ID	LDP NORTHING	LDP EASTING	STATION	OFFSET	DATE	DESCRIPTION & REFERENCE DOCUMENTS
1000	849314.92	8742429.90	15+82.06	0.03' RT	06/13/2014	FOUND RAILROAD SPIKE W/ PUNCH MARK, MARKED "LS 2627", SURVEY NO. 12-118-C
1001	849338.32	8740865.29	0+00.00	0.00	06/13/2014	FOUND RAILROAD SPIKE W/ PUNCH MARK, MARKED "LS 2627", SURVEY NO. 12-118-C
1003	848904.46	8744878.90	19+22.76	N/A	06/13/2014	FOUND RAILROAD SPIKE W/ PUNCH MARK, MARKED "LS 2627", SURVEY NO. 12-118-C
1004	849323.47	8740865.63	0+00.16	14.86' RT	06/13/2014	FOUND 3" BRASS CAP MARKED "T6N R35E S24/S25 1974 PLS 933", DOWN 9", SURVEY NO. 1-165-5
1005	849370.11	8743548.60	30+40.23	N/A	06/13/2014	FOUND 2-3/8" BRASS CAP MARKED "T6N R35E R36E S24/S19/S25/S30 2008 PLS 1106", SURVEY NO. 8-49-B
1007	848869.91	8742618.64	21+02.73	0.03' LT	06/24/2014	FOUND RAILROAD SPIKE W/ PUNCH MARK, MARKED "LS 2627", SURVEY NO. 12-118-C
1008	848851.64	8742467.45	"E"20+59.99	0.04' RT	06/24/2014	FOUND RAILROAD SPIKE W/ PUNCH MARK, MARKED "LS 2627", SURVEY NO. 12-118-C
1009	848668.50	8742369.68	"E"22+67.60	0.01' RT	06/24/2014	FOUND RAILROAD SPIKE W/ PUNCH MARK, MARKED "LS 2627", SURVEY NO. 12-118-C
1010	849347.36	8741571.93	7+06.70	0.03' LT	06/26/2014	FOUND RAILROAD SPIKE W/ PUNCH MARK, MARKED "LS 2627", SURVEY NO. 12-118-C
1012	849067.57	8742493.40	18+37.43	0.01' RT	06/25/2014	FOUND RAILROAD SPIKE W/ PUNCH MARK, MARKED "LS 2627", SURVEY NO. 12-118-C
1013	848981.59	8742502.65	19+24.20	0.03' LT	06/25/2014	FOUND RAILROAD SPIKE (NO PUNCH MARK), MARKED "LS 2627", SURVEY NO. 12-118-C

OREGON DEPARTMENT OF TRANSPORTATION  
HORIZONTAL CONTROL, RECOVERY AND RETRACEMENT MAP  
BIRCH CREEK RD: WALLA WALLA RIVER BRIDGE REPLACEMENT  
BIRCH CREEK ROAD  
UMATILLA COUNTY

FOR ODOT REGION 5  
3012 ISLAND AVENUE  
LA GRANDE, OR 97850

NOVEMBER 6, 2014  
SCALE: 1" = 100'  
SHEET 2 OF 3

SEE SHEET 2

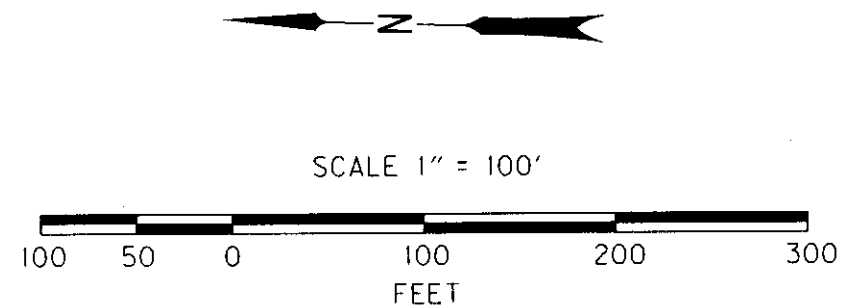


**LEGEND**

- ( ) RECORD DATA PER COUNTY SURVEY 12-118-C
- FOUND MONUMENT NOTED IN TABLE
- ☆ FOUND GPS STATION
- ▲ SET NETWORK POINT
- EDGE OF GRAVEL
- EDGE OF PAVEMENT
- RIGHT-OF-WAY

NOTE: ALL RECORD DATA SHOWN HEREON IS ON GRID PER SURVEY NO 12-118-C. TO OBTAIN THE RECORD GROUND DISTANCE, DIVIDE THE GRID DISTANCE BY 0.99995297.

**RECEIVED BY**  
 Umatilla County Surveyor  
 Date: 11/16/2014  
 Rec'd By: *[Signature]*  
 No.: 14-138-B



RECOVERED MONUMENT LIST

PT ID	LDP NORTHING	LDP EASTING	STATION	OFFSET	DATE	DESCRIPTION & REFERENCE DOCUMENTS
1002	848013.57	8742227.51	"E"29+46.40	0.03' RT	06/13/2014	FOUND RAILROAD SPIKE W/ PUNCH MARK, MARKED "LS 2627", SURVEY NO. 12-118-C
1006	846662.35	8742292.37	"E"42+99.33	0.01' RT	06/13/2014	FOUND RAILROAD SPIKE W/ PUNCH MARK, MARKED "LS 2627", SURVEY NO. 12-118-C
1009	848668.50	8742369.68	"E"22+67.60	0.02' RT	06/24/2014	FOUND RAILROAD SPIKE W/ PUNCH MARK, MARKED "LS 2627", SURVEY NO. 12-118-C

REGISTERED PROFESSIONAL LAND SURVEYOR

*[Signature]*

OREGON  
 JAN. 14, 2003  
 BRET N. ELITHORP  
 #63148

RENEWAL DATE: DEC. 31, 2015  
 SIGNED: 11/16/2014

OREGON DEPARTMENT OF TRANSPORTATION  
 HORIZONTAL CONTROL, RECOVERY AND RETRACEMENT MAP  
 BIRCH CREEK RD: WALLA WALLA RIVER BRIDGE REPLACEMENT  
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NOVEMBER 6, 2014  
 SCALE: 1" = 100'  
 SHEET 3 OF 3