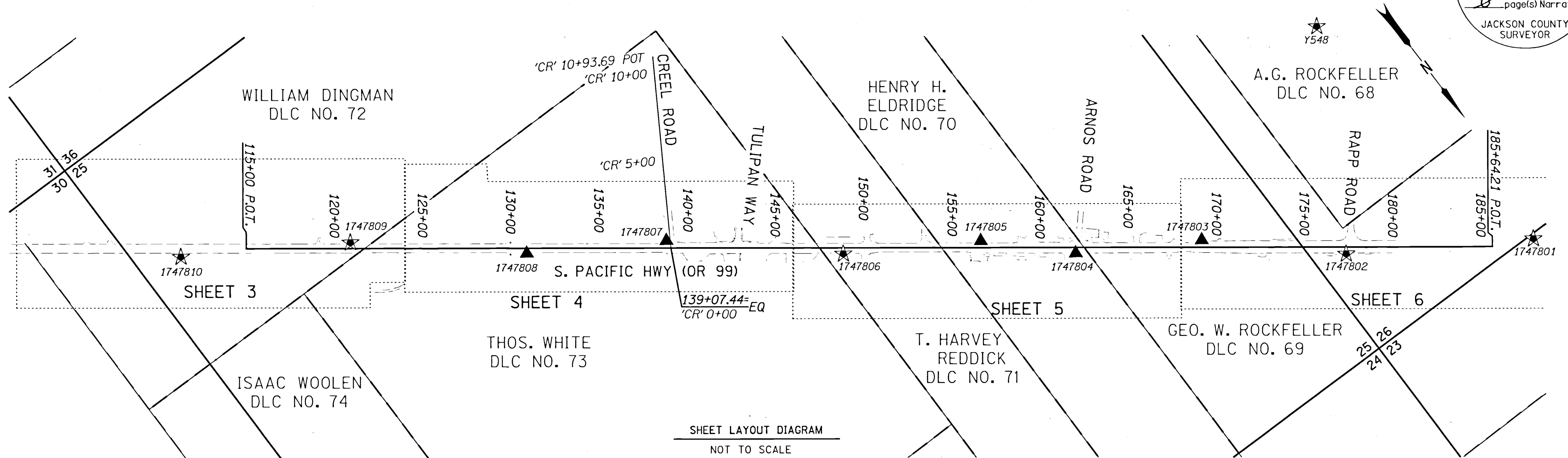


SE 1/4 SEC 23 T38S R1W WM  
 NW 1/4, SW 1/4, & SE 1/4 SEC 25 T38S R1W WM  
 NE 1/4 SEC 26 T38S R1W WM

**\*\* RECEIVED \*\***  
 DATE 9/14/15 BY PB  
 This survey consists of:  
6 sheet(s) Map  
0 page(s) Narrative  
 JACKSON COUNTY  
 SURVEYOR



SHEET LAYOUT DIAGRAM  
 NOT TO SCALE

**SURVEY NARRATIVE**

THIS SURVEY WAS MADE IN PREPARATION OF THE OREGON DEPARTMENT OF TRANSPORTATION'S (ODOT) OR99: RAPP ROAD TO TALENT CITY LIMITS PAVEMENT ENHANCEMENT PROJECT. THE PURPOSE OF THIS SURVEY IS TO RECORD THE POSITIONS OF CONTROL POINTS FOR CONSTRUCTING THE PROJECT, RECORD THE POSITIONS OF MONUMENTS OF RECORD AS FOUND, RESOLVE THE EXISTING RIGHT OF WAY (R/W) CENTER LINES AND DEFINE THE EXISTING R/W, AS DIRECTED IN ORS 209.155.

THE BEARINGS ARE BASED UPON THE OREGON COORDINATE REFERENCE SYSTEM (OCRS), GRANTS PASS - ASHLAND ZONE, NAD83 (2011) EPOCH 2010.00. THE OCRS COORDINATES ARE EQUAL TO OR CLOSE TO TRUE GROUND DISTANCES.

ALL COORDINATES ARE IN INTERNATIONAL FEET.

SURVEY WORK FOR THIS PROJECT WAS PERFORMED BY ODOT SURVEY CREWS FROM NOVEMBER, 2013 TO NOVEMBER, 2014. THE SURVEYING EQUIPMENT USED WAS A LEICA VIVA TS15, LEICA DNA10 DIGITAL LEVEL, GX1230 DUAL FREQUENCY GPS AND A VIVA GS14 DUAL FREQUENCY GPS RECEIVERS.

**SOUTH PACIFIC HIGHWAY (OR 99)**

THE CENTER LINE FOR THE SOUTH PACIFIC HIGHWAY WAS RESOLVED BY ROTATING THE CENTER LINE ALIGNMENT SHOWN ON ODOT DRG. NO. 5B-7-22 TO RECORD OFFSET DISTANCES OF 50.00' FROM POINT NO.'S 1004 AND 1029. THIS FIT WELL WITH THE OTHER ORIGINAL RIGHT OF WAY MONUMENTS AS WELL AS MOST OF THE PRIVATE SURVEYS. THE PROJECT STATIONING WAS ESTABLISHED BY HOLDING THE RECORD STATION VALUE FOR POINT NO. 1004. THIS STATIONING DIFFERED BY APPROXIMATELY 3.2' AND 4.6' FROM COUNTY SURVEY'S 19437 AND 20175, BUT FIT WELL ENOUGH WITH THE OTHER ORIGINAL RIGHT OF MONUMENTS TO VERIFY THE POSITION.

THE RESOLVED CENTER LINE WAS THEN USED TO ESTABLISHED THE EXISTING RIGHT OF WAY WHERE ODOT DRG. NO. 5B-7-22 AND DEEDS SPECIFY STATION AND OFFSET.

**CREEL ROAD**

THE CREEL ROAD R/W CENTER LINE ALIGNMENT WAS ESTABLISHED BY HOLDING POINT NO. 1041 AND A 30' OFFSET ON POINT NO. 1008. THE ALIGNMENT WAS THEN EXTENDED TO INTERSECT WITH THE RESOLVED SOUTH PACIFIC HIGHWAY CENTER LINE. STATIONING OF 0+00.00 WAS ESTABLISHED AT THIS ALIGNMENT INTERSECTION.

**SHEET INDEX**

- 1 SURVEY NARRATIVE & SHEET LAYOUT DIAGRAM
- 2 CONTROL NARRATIVE & CONTROL POINT TABLES
- 3-6 CONTROL, RECOVERY & RETRACEMENT SHEETS

**REFERENCE DOCUMENTS USED:**

- ODOT DRG. 5B-7-12, C.S. 11124,
- C.S. 11144, C.S. 11165, C.S. 11250,
- C.S. 12059, C.S. 12331, C.S. 12372,
- C.S. 13164, C.S. 14309, C.S. 14588,
- C.S. 17464, C.S. 17701, C.S. 18038,
- C.S. 19437, C.S. 19569, C.S. 19570,
- C.S. 19696, C.S. 19697, C.S. 19698,
- C.S. 20119, C.S. 20175, C.S. 2961,
- C.S. 3692, C.S. 3770, C.S. 7558, C.S.
- 8382, JCS 1ST RE-ESTAB, JCS
- 2ND RE-ESTAB, JCS 3RD
- RE-ESTAB, JCS 5TH RE-ESTAB,
- JCS 6TH RE-ESTAB, MOUNTAIN
- VISTA

POINT LEGEND	
( )	RECORD DATA PER 5B-7-22
[ ]	RECORD DATA PER 1A-23-18
▲	SET NETWORK POINT (SEE SHEET 2)
★	SET GPS STATION (SEE SHEET 2)
○	FOUND MONUMENT

LINE LEGEND	
	PRIMARY CENTERLINE
	GOVERNMENT TOWNSHIP LINE
	GOVERNMENT SECTION LINE
	GOVERNMENT 1/4 SECTION LINE
	GOVERNMENT 1/16 SECTION LINE
	HIGHWAY R/W LINE
	EDGE OF PAVEMENT
	GOVERNMENT DLC LINE
	EXISTING PROPERTY OR STREET RIGHT OF WAY

REGISTERED  
 PROFESSIONAL  
 LAND SURVEYOR  
  
 OREGON  
 JULY 09, 2001  
 STUART E. CAPPELLO  
 52908LS  
 EXPIRES: 12/31/2015

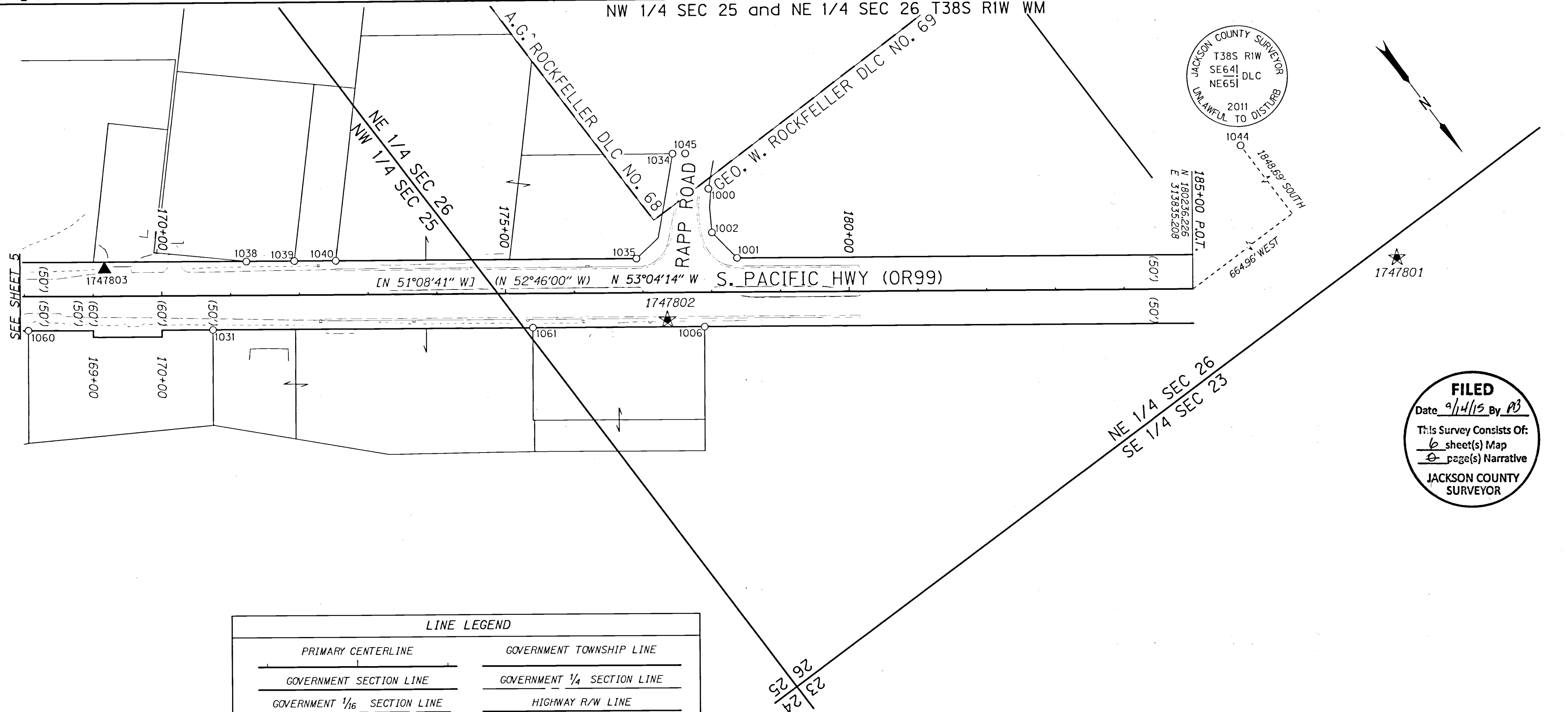
OREGON DEPARTMENT OF TRANSPORTATION  
 HORIZONTAL CONTROL, RECOVERY AND RETRACEMENT MAP  
 OR 99: RAPP RD TO TALENT CITY LIMITS  
 SOUTH PACIFIC HIGHWAY (OR 99)  
 JACKSON COUNTY

KEY NO. 17478  
 REGION 3 TECH CENTER  
 100 ANTELOPE ROAD  
 WHITE CITY, OREGON, 97503

SEPTEMBER, 2015  
 NO SCALE  
 SHEET 1 OF 6

DESIGNED BY: S. CAPPELLO | DRAFTED BY: R. CARSON | CHK'D BY: A. AUSLAND

NW 1/4 SEC 25 and NE 1/4 SEC 26 T38S R1W WM

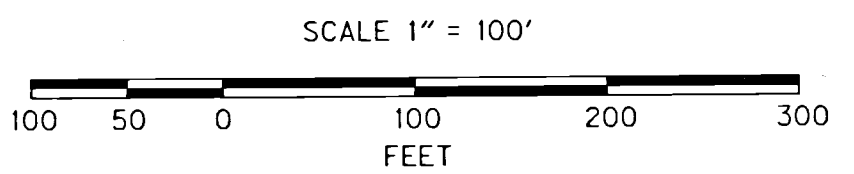


JACKSON COUNTY SURVEYOR  
T38S R1W  
SE64 | DLC  
NE65 |  
2011  
UNLAWFUL TO DISTURB

**FILED**  
Date 9/14/15 By AB  
This Survey Consists Of:  
6 sheet(s) Map  
2 page(s) Narrative  
JACKSON COUNTY SURVEYOR

LINE LEGEND	
	PRIMARY CENTERLINE
	GOVERNMENT TOWNSHIP LINE
	GOVERNMENT SECTION LINE
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	EDGE OF PAVEMENT
	EXISTING PROPERTY OR STREET RIGHT OF WAY
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	GOVERNMENT DLC LINE

POINT LEGEND	
( )	RECORD DATA PER 5B-7-22
[ ]	RECORD DATA PER 1A-23-18
▲	SET NETWORK POINT (SEE SHEET 2)
★	SET GPS STATION (SEE SHEET 2)
○	FOUND MONUMENT



RECOVERED MONUMENT TABLE

JCS=JACKSON COUNTY SURVEY C.S.=COUNTY SURVEY FD=FOUND  
IR=IRON ROD IP=IRON PIPE YPC=YELLOW PLASTIC CAP EX=EXPOSED w/=WITH

PT. NO.	STATION	OFFSET	OCRS NORTHING	OCRS EASTING	DATE	DESCRIPTION	REFERENCE DOCUMENT
1000	-	-	179692.18	314306.82	12/24/2013	FD 5/8" IR w/ AC "ODOT RIGHT OF WAY"	C.S. 19696
1001	178+37.19	-50.11	179797.93	314334.93	12/24/2013	FD 5/8" IR w/ AC "ODOT RIGHT OF WAY"	C.S. 19696
1002	-	-	179746.31	314341.64	12/24/2013	FD 5/8" IR w/ AC "ODOT RIGHT OF WAY"	C.S. 19696
1006	177+89.40	50.15	179849.36	314433.38	12/24/2013	FD 5/8" IR w/ YPC REMNANTS	C.S. 12372
1031	170+74.07	50.06	179419.50	315005.14	12/24/2013	FD 1" IR	C.S. 2961
1034	-	-	179619.88	314317.36	12/24/2013	FD 5/8" IR w/ YPC "L.J. FRIAR & ASSOC.", DN 0.5'	C.S. 17701
1035	176+90.74	-49.96	179710.06	314452.09	12/24/2013	FD 5/8" IR	C.S. 19483
1038	171+23.17	-49.69	179369.26	314905.96	12/24/2013	FD 5/8" IR w/ YPC PUNCHED THROUGH, BENT S'LY	C.S. 11124
1039	171+92.85	-49.90	179410.96	314850.13	12/24/2013	FD 5/8" IR w/ YPC L.J FRIAR & ASSOC	C.S. 19569
1040	172+53.19	-49.91	179447.21	314801.89	12/24/2013	FD 5/8" IR w/ YPC L.J FRIAR & ASSOC	C.S. 19570
1044	-	-	178386.98	313170.25	12/16/2013	FD 2-1/4" BRASS CAP "DLC SE64 NE65"	JCS 3rd RE-ESTAB
1045	-	-	179630.92	314302.57	12/24/2013	FD 5/8" IR w/ AC "ODOT RESET"	C.S. 19696
1060	168+05.51	49.95	179258.05	315219.75	3/3/2014	FD 5/8" IR	C.S. 2961
1061	175+39.50	50.02	179699.11	314633.06	3/3/2014	FD 5/8" IR	C.S. 2961

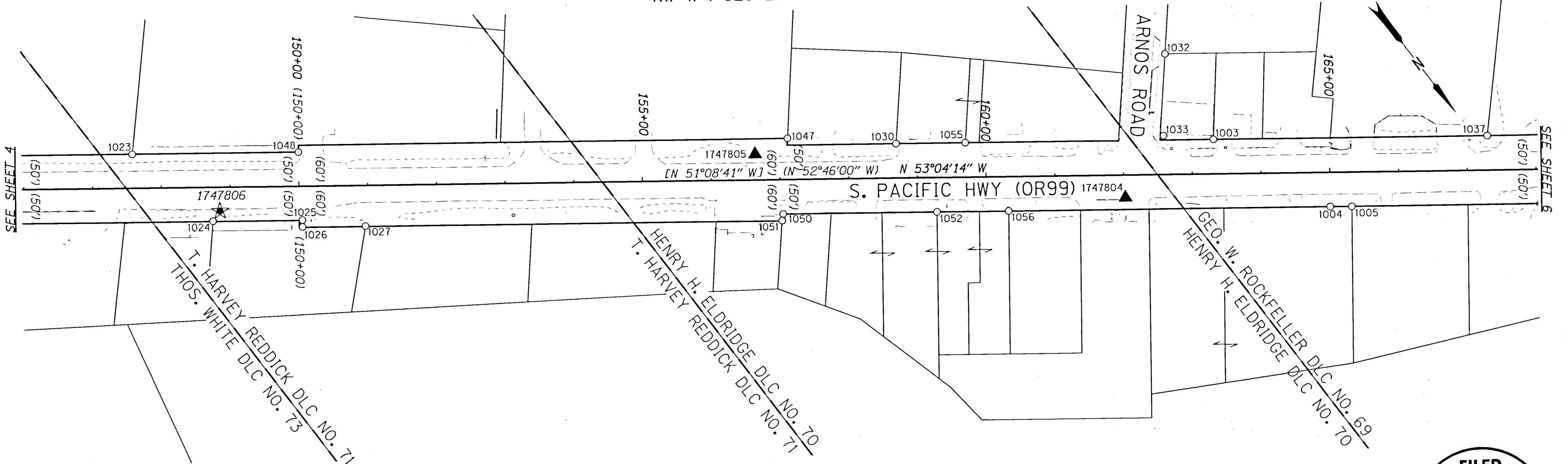
REGISTERED PROFESSIONAL LAND SURVEYOR  
*Stuart E. Cappello*  
OREGON  
JULY 09, 2001  
STUART E. CAPPELLO  
52908LS  
EXPIRES: 12/31/2015

OREGON DEPARTMENT OF TRANSPORTATION  
HORIZONTAL CONTROL, RECOVERY AND RETRACEMENT MAP  
OR 99: RAPP RD TO TALENT CITY LIMITS  
SOUTH PACIFIC HIGHWAY (OR 99)  
JACKSON COUNTY

KEY NO. 17478  
REGION 3 TECH CENTER  
100 ANTELOPE ROAD  
WHITE CITY, OREGON, 97503

SEPTEMBER, 2015  
SCALE: 1"=100'  
SHEET 6 OF 6

DESIGNED BY: S. CAPPELLO | DRAFTED BY: R. CARSON | CHK'D BY: A. AUSLAND



SEE SHEET 4

SEE SHEET 6

LINE LEGEND	
	PRIMARY CENTERLINE
	GOVERNMENT TOWNSHIP LINE
	GOVERNMENT SECTION LINE
	GOVERNMENT 1/4 SECTION LINE
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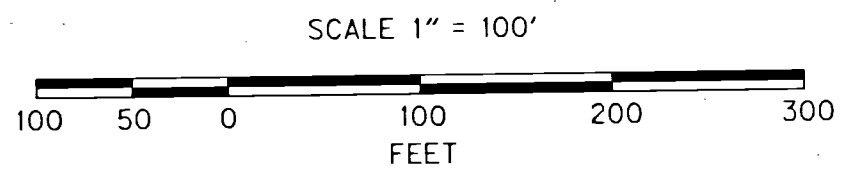
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 Date: 9/14/15 By: PB  
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 JACKSON COUNTY SURVEYOR

FD-FOUND IR-IRON ROD IP-IRON PIPE DN-DOWN YPC-YELLOW PLASTIC CAP  
 EX-EXPOSED DN-DOWN w/-WITH C.S.-COUNTY SURVEY

RECOVERED MONUMENT TABLE

PT. NO.	STATION	OFFSET	OCRS NORTHING	OCRS EASTING	DATE	DESCRIPTION	REFERENCE DOCUMENT
1003	163+31.30	-49.90	178893.31	315538.83	12/24/2013	FD 5/8" IR	C.S. 12059
1004	165+00.00	50.00	179074.53	315464.00	12/24/2013	FD 3/4" IR	ODOT DRG 5B-7-22
1005	165+31.52	49.98	179093.45	315438.79	12/24/2013	FD 3/4" IR	C.S. 2961
1023	147+58.30	-49.78	177948.30	316796.33	12/24/2013	FD 5/8" IR w/ YPC "LS 1036"	C.S. 11165
1024	148+74.61	49.48	178097.53	316762.98	12/24/2013	FD 5/8" IR, DN 0.7'	C.S. 14309
1025	150+04.62	49.51	178175.67	316659.08	12/24/2013	FD 5/8" IR w/ YPC (UNREADABLE)	C.S. 20175
1026	150+04.59	59.50	178183.64	316665.10	12/24/2013	FD 5/8" IR w/ YPC (UNREADABLE)	C.S. 20175
1027	150+96.26	59.46	178238.68	316591.80	12/24/2013	FD 5/8" IR w/ YPC "FARBER PLS 2189", DN 0.2'	C.S. 20175
1030	158+69.61	-49.96	178615.87	315907.86	12/24/2013	FD 3/4" IP, DN 0.3'	C.S. 4534
1032	-	-	178751.65	315518.31	12/24/2013	FD 1/2" IR, EX 0.2'	C.S. 11250
1033	162+58.90	56.26	178844.72	315592.88	12/24/2013	FD 5/8" IR SMOOTH	C.S. 11250
1037	167+29.66	-49.82	179132.72	315220.43	12/24/2013	FD IR w/ YPC "D.W. EDWARDS PLS 741", DN 0.8'	C.S. 11124
1047	157+11.73	-60.01	178512.97	316028.02	2/13/2014	FD 3/4" IR, DN 0.4'	5B-7-22
1048	149+99.90	-49.87	178093.39	316603.14	2/13/2014	FD IR w/ YPC "LS 1036", DN 1.8'	C.S. 11165
1050	157+04.25	50.04	178596.45	316100.12	2/13/2014	FD 5/8" IR w/ YPC REMNANTS	C.S. 13165
1051	157+02.66	59.68	178603.20	316107.19	2/13/2014	FD 3/4" IR, DN 0.6', STA 157+02.6 (60') RT	ODOT DRG 5B-7-22
1052	159+28.07	50.00	178730.90	315921.19	2/13/2014	FD IR w/ YPC "R. BATH LS 1069"	C.S. 13164
1055	159+70.29	-49.98	178676.34	315827.36	2/28/2014	FD 1" COTTON SPINDLE, FLUSH IN ASPHALT	UNKNOWN ORIGIN
1056	160+32.40	49.98	178793.57	315837.78	2/28/2014	FD IR w/ YPC "R. BATH LS 1069"	C.S. 13164

POINT LEGEND	
( )	RECORD DATA PER 5B-7-22
[ ]	RECORD DATA PER 1A-23-18
▲	SET NETWORK POINT (SEE SHEET 2)
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REGISTERED PROFESSIONAL LAND SURVEYOR  
*Stuart E. Cappello*  
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 EXPIRES: 12/31/2015

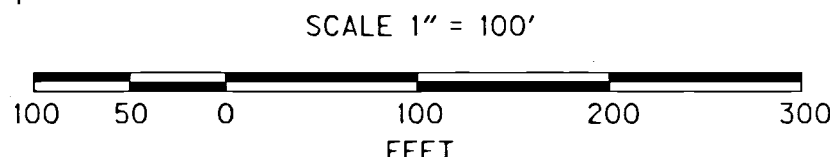
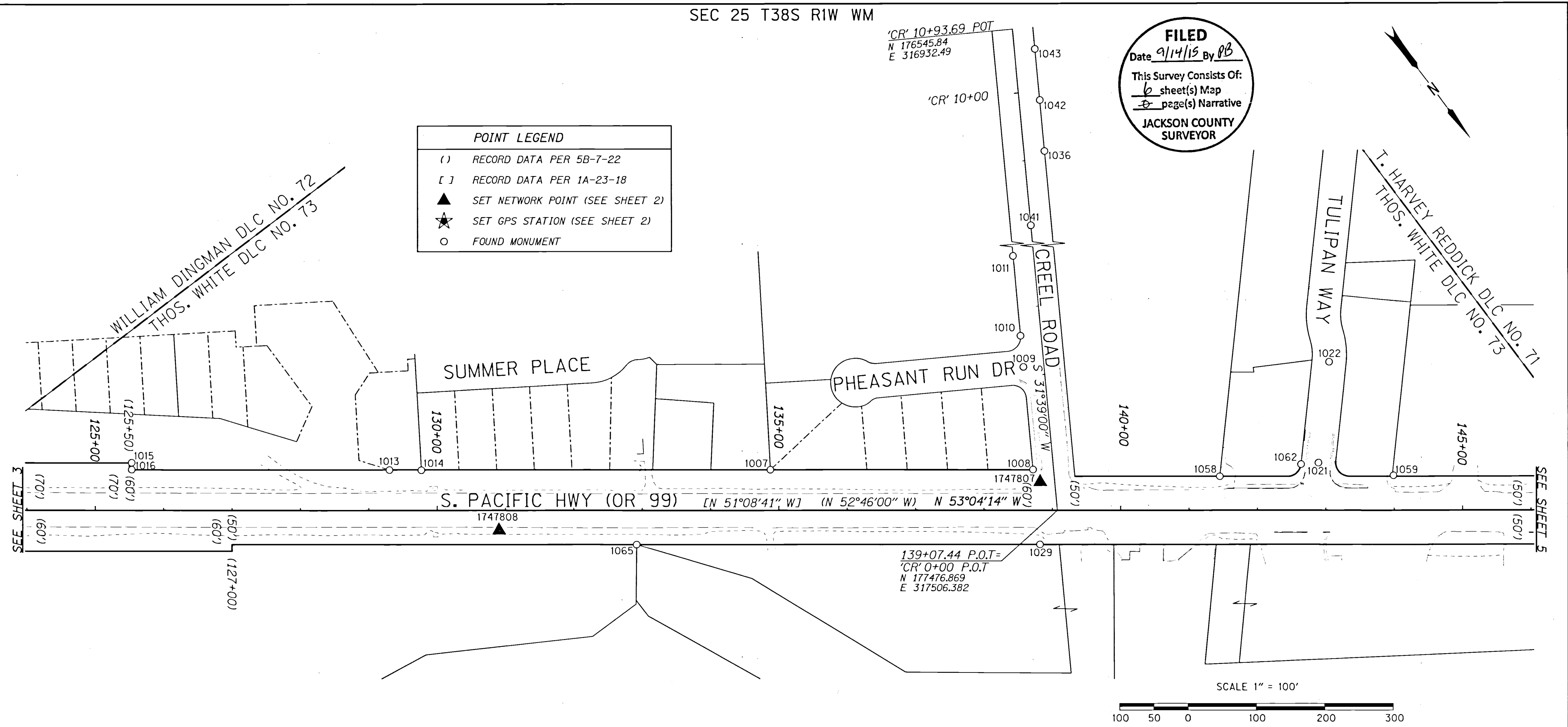
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 JACKSON COUNTY

KEY NO. 17478  
 REGION 3 TECH CENTER  
 100 ANTELOPE ROAD  
 WHITE CITY, OREGON, 97503  
 SEPTEMBER, 2015  
 SCALE: 1"=100'  
 SHEET 5 OF 6  
 DESIGNED BY: S. CAPPELLO | DRAFTED BY: R. CARSON | CHK'D BY: A. AUSLAND

**FILED**  
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**JACKSON COUNTY SURVEYOR**

**POINT LEGEND**

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[ ]	RECORD DATA PER 1A-23-18
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RECOVERED MONUMENT TABLE FD=FOUND IR=IRON ROD AC=ALUMINUM CAP YPC=YELLOW PLASTIC CAP EX=EXPOSED DN=DOWN w/=WITH C.S.=COUNTY SURVEY

PT. NO.	STATION	OFFSET	OCRS NORTHING	OCRS EASTING	DATE	DESCRIPTION	REFERENCE DOCUMENT
1007	134+87.54	-59.86	177176.73	317806.07	12/24/2013	FD 5/8" IR w/ YPC "KAISER PLS 803"	C.S. 12331
1008	138+71.77	-60.01	177407.46	317498.84	12/24/2013	FD 5/8" IR w/ YPC "KAISER PLS 803"	C.S. 12331
1009	-	-	177279.23	317419.83	12/30/2013	FD 5/8" IR w/ AC "KAISER PLS 803"	C.S. 12331
1010	-	-	177240.23	317395.83	12/30/2013	FD 5/8" IR w/ YPC "KAISER PLS 803", DN 0.3'	C.S. 12331
1011	-	-	177140.66	317334.50	12/30/2013	FD 5/8" IR BENT EASTERLY	C.S. 12331
1013	129+30.28	-59.71	176842.03	318251.63	12/24/2013	FD 5/8" IR w/ YPC "L.J. FRIAR & ASSOC.", EX 0.5'	C.S. 19437
1014	129+76.92	-59.33	176870.36	318214.57	12/24/2013	FD 5/8" IR w/ YPC "L.J. FRIAR & ASSOC.", LEANING WESTERLY, EX 0.5'	C.S. 14588
1015	125+53.20	-70.38	176606.94	318546.64	12/24/2013	FD 5/8" IR w/ YPC "L.J. FRIAR & ASSOC.", EX 0.6'	C.S. 19437
1016	125+53.22	-60.27	176615.03	318552.70	12/24/2013	FD 5/8" IR w/ YPC "L.J. FRIAR & ASSOC.", EX 0.3'	C.S. 19437
1021	142+89.16	-69.93	177650.32	317159.23	12/24/2013	FD 2" BRASS DISK SET IN CONCRETE STAMPED "+"	C.S. 8382
1022	-	-	177541.98	317058.20	12/24/2013	FD 2" BRASS DISK SET IN CONCRETE STAMPED "PC+"	C.S. 8382
1029	138+81.90	50.00	177501.49	317556.84	12/24/2013	FD 3/4" IR, DN 0.6'	ODOT DRG 5B-7-22
1036	-	-	176716.53	317002.61	12/12/2013	FD 5/8" IR, DN 0.1'	MOUNTAN VISTA
1041	-	-	176791.38	317083.84	12/12/2013	FD 5/8" IR w/ 2" AC L.J.FRIAR & ASSOC	C.S. 17464
1042	-	-	176652.79	316962.99	12/12/2013	FD 5/8" IR	MOUNTAN VISTA
1043	-	-	176588.78	316923.82	12/12/2013	FD 5/8" IR	MOUNTAN VISTA
1058	141+44.96	-49.97	177579.63	317286.50	3/3/2014	FD 5/8" IR	C.S. 7558
1059	143+98.91	-51.28	177731.17	317082.71	3/3/2014	FD 1/2" SMOOTH ROD	C.S. 7558
1062	142+63.82	-67.77	177636.82	317180.79	3/4/2014	FD 5/8" IR, 0.5' BELOW ASPHALT	C.S. 8382
1065	132+91.92	50.23	177147.19	318028.59	3/18/2014	FD 5/8"	C.S. 3692

**LINE LEGEND**

PRIMARY CENTERLINE	GOVERNMENT TOWNSHIP LINE
GOVERNMENT SECTION LINE	GOVERNMENT 1/4 SECTION LINE
GOVERNMENT 1/16 SECTION LINE	HIGHWAY R/W LINE
EDGE OF PAVEMENT	GOVERNMENT DLC LINE
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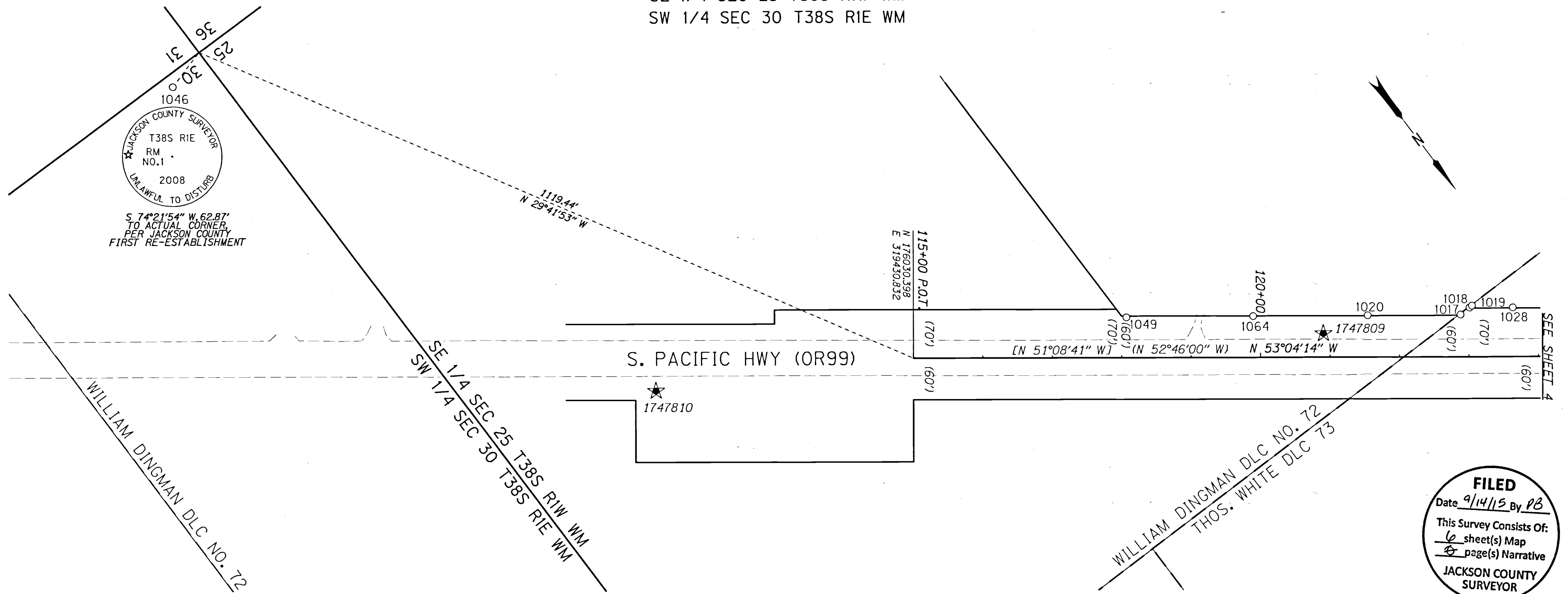
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SEPTEMBER, 2015  
 SCALE: 1"=100'  
 SHEET 4 OF 6

DESIGNED BY: S. CAPPELLO | DRAFTED BY: R. CARSON | CHK'D BY: A. AUSLAND

SE 1/4 SEC 25 T38S R1W WM  
SW 1/4 SEC 30 T38S R1E WM

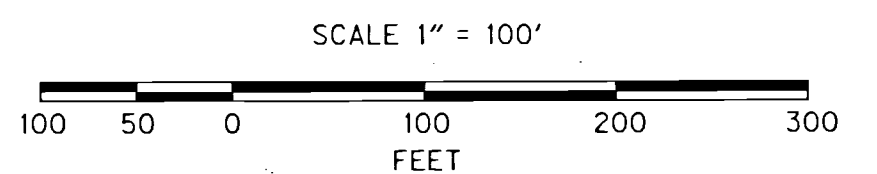


JACKSON COUNTY SURVEYOR  
T38S R1E  
RM NO.1  
2008  
UNLAWFUL TO DISTURB  
S 74°21'54\"/>

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JCS=JACKSON COUNTY SURVEY C.S.=COUNTY SURVEY FD=FOUND  
IR=IRON ROD IP=IRON PIPE YPC=YELLOW PLASTIC CAP EX=EXPOSED w/=WITH

PT. NO.	STATION	OFFSET	OCRS NORTHING	OCRS EASTING	DATE	DESCRIPTION	REFERENCE DOCUMENT
1017	122+87.97	-60.76	176455.26	318764.44	12/24/2013	FD 5/8" IR w/ YPC "L.J. FRIAR & ASSOC.PC", EX. 0.1'	C.S. 18038
1018	123+00.97	-70.71	176455.12	318748.07	12/24/2013	FD 5/8" IR w/ YPC "L.J. FRIAR & ASSOC.PC", EX. 0.3'	C.S. 20119
1019	123+04.46	-73.39	176455.08	318743.67	12/24/2013	FD 5/8" IR w/ YPC "L.J. FRIAR & ASSOC.PC", EX. 0.2'	C.S. 18038
1020	121+54.26	-60.20	176375.37	318871.66	12/24/2013	FD 5/8" IR w/ YPC "L.J. FRIAR & ASSOC.PC", EX. 0.1'	C.S. 18038
1028	123+63.24	-70.72	176492.52	318698.29	12/24/2013	FD 5/8" IR w/ YPC "L.J. FRIAR & ASSOC.PC", EX. 0.1'	C.S. 20119
1046	-	-	175074.95	320045.98	12/12/2013	FD IP w/3 1/4" BRASS CAP-RM NO.1 T38S R1E SEC 25:36:30:31	JCS 1st RE-ESTAB
1049	118+06.75	-58.15	176168.22	319150.68	2/13/2014	FD 1/2" IP w/ PLUG & TACK INSIDE "LS 759"	C.S. 11144
1064	119+89.34	-59.46	176276.88	319003.94	3/6/2014	FD 1/2" IP w/ PLUG & TACK INSIDE "LS 759"	C.S. 11144

REGISTERED PROFESSIONAL LAND SURVEYOR  
*Stuart E. Cappello*  
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JULY 09, 2001  
STUART E. CAPPELLO  
5290BLS  
EXPIRES: 12/31/2015

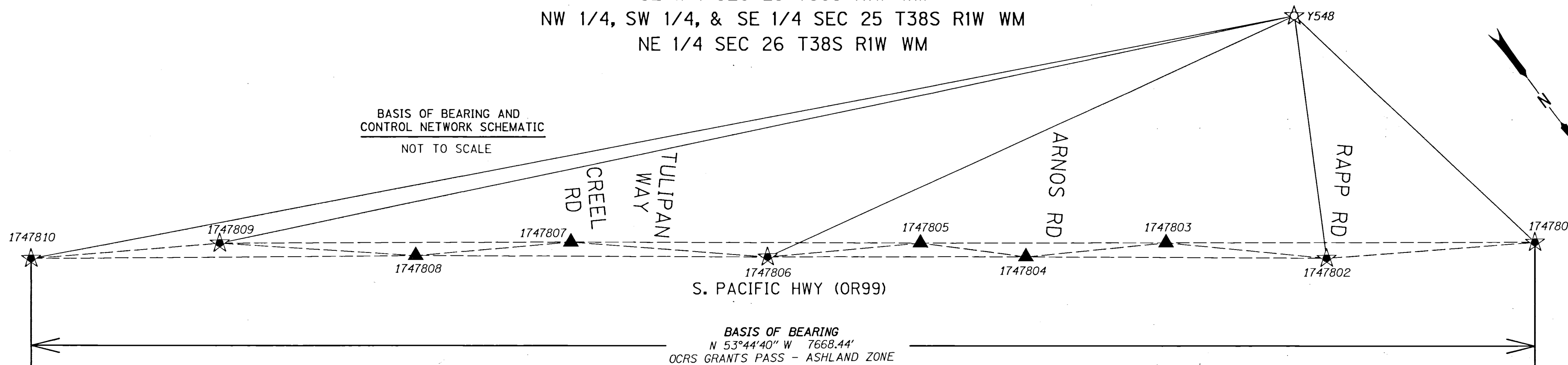
OREGON DEPARTMENT OF TRANSPORTATION  
HORIZONTAL CONTROL, RECOVERY AND RETRACEMENT MAP  
OR 99: RAPP RD TO TALENT CITY LIMITS  
SOUTH PACIFIC HIGHWAY (OR 99)  
JACKSON COUNTY

KEY NO. 17478  
REGION 3 TECH CENTER  
100 ANTELOPE ROAD  
WHITE CITY, OREGON, 97503

SEPTEMBER, 2015  
SCALE: 1"=100'  
SHEET 3 OF 6

DESIGNED BY: S CAPPELLO | DRAFTED BY: R CARSON | CHK'D BY: A AUSLAND

SE 1/4 SEC 23 T38S R1W WM  
 NW 1/4, SW 1/4, & SE 1/4 SEC 25 T38S R1W WM  
 NE 1/4 SEC 26 T38S R1W WM



NETWORK POINT COORDINATE TABLE

PT. NO.	OCRS NORTHING	OCRS EASTING	NAVD 88 ELEVATION	DATE	DESCRIPTION
1747801	180379.69	313571.46	-	12/20/2013	SET 1" COPPER PLUG "ODOT 1747801"
1747802	179808.41	314470.21	1604.80	12/20/2013	SET MAG NAIL w/ WASHER "ODOT 1747802"
1747803	179253.44	315077.07	1612.45	12/26/2013	SET 5/8" IR w/ AC "ODOT CONTROL POINT 1747803"
1747804	178881.95	315691.53	1618.22	12/26/2013	SET MAG NAIL w/ WASHER "ODOT 1747804"
1747805	178502.37	316079.38	1623.49	12/26/2013	SET 5/8" IR w/ AC "ODOT CONTROL POINT 1747805"
1747806	178091.88	316745.85	1632.16	12/20/2013	SET 5/8" IR w/ AC "ODOT CONTROL POINT 1747806"
1747807	177428.37	317501.48	1641.22	12/26/2013	SET MAG NAIL w/ WASHER "ODOT 1747807"
1747808	177009.52	318176.95	1635.88	12/26/2013	SET 5/8" IR w/ AC "ODOT CONTROL POINT 1747808"
1747809	176357.54	318938.27	1620.80	12/20/2013	SET 5/8" IR w/ AC "ODOT CONTROL POINT 1747809"
1747810	175844.68	319755.20	1622.81	12/20/2013	SET 5/8" IR w/ AC "ODOT CONTROL POINT 1747810"
Y548	177999.92	313317.55	1668.34	12/16/2013	FD 3-1/2" BRASS DISK STAMPED "Y548"

GEODETIC DATA TABLE

PT. NO.	LATITUDE (N)	LONGITUDE (W)	ELL. HT.	GEOID SEP.	ORTHO. HT.
1747801	42° 14' 37.08892" N	122° 46' 52.11083" W	1518.62	-78.71	-
1747802	42° 14' 31.38835" N	122° 46' 40.21270" W	1526.11	-78.69	1604.80
1747806	42° 14' 14.28557" N	122° 46' 10.11278" W	1553.54	-78.62	1632.16
1747809	42° 13' 57.01022" N	122° 45' 41.12508" W	1542.25	-78.55	1620.80
1747810	42° 13' 51.89018" N	122° 45' 30.31293" W	1544.29	-78.52	1622.81
Y548	42° 14' 13.60122" N	122° 46' 55.69142" W	1590.15	-78.19	1668.34

1.96 SIGMA (95%)  
 CONFIDENCE LEVEL (PRIMARY GPS CONTROL)

PT. NO.	SEMI MAJOR	SEMI MINOR	ORIENTATION *
1747810	0.02'	0.02'	13°
Y548	0.03'	0.02'	18°

\* NORTH AZIMUTH

1.96 SIGMA (95%)  
 CONFIDENCE LEVEL (SECONDARY GPS CONTROL)

PT. NO.	SEMI MAJOR	SEMI MINOR	ORIENTATION *
1747801	0.02'	0.00'	3°
1747802	0.01'	0.01'	9°
1747806	0.01'	0.00'	11°
1747809	0.03'	0.01'	1°

\* NORTH AZIMUTH

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

PT. NO.	SEMI MAJOR	SEMI MINOR	ORIENTATION *
1747803	0.01'	0.01'	128°
1747804	0.01'	0.01'	128°
1747805	0.01'	0.01'	126°
1747807	0.01'	0.01'	129°
1747808	0.02'	0.01'	125°

\* NORTH AZIMUTH

**FILED**  
 Date 9/14/15 By PB  
 This Survey Consists Of:  
 6 sheet(s) Map  
 8 page(s) Narrative  
**JACKSON COUNTY SURVEYOR**

REGISTERED PROFESSIONAL LAND SURVEYOR  
  
 OREGON  
 JULY 09, 2001  
 STUART E. CAPPELLO  
 52908LS  
 EXPIRES: 12/31/2015

**CONTROL NARRATIVE**

**HORIZONTAL CONTROL**

A RAPID STATIC GPS NETWORK USING 2 HOUR OCCUPATIONS WAS PERFORMED TO DERIVE COORDINATES ON PRIMARY CONTROL POINTS Y548, A FOUND NGS BENCHMARK, AND 1747810, A SET MONUMENT. THIS NETWORK WAS PROCESSED HOLDING OREGON REAL-TIME GEODETIC NETWORK (ORGN) STATIONS CTPT, ASHL AND PSPT.

HOLDING THE ADJUSTED PRIMARY CONTROL POINTS, A SUBSEQUENT RAPID STATIC GPS NETWORK WAS PERFORMED USING 20 MINUTE OCCUPATIONS ON SET PROJECT CONTROL POINTS 1747801, 1747802, 1747806 AND 1747809 TO ESTABLISH GEODETIC POSITIONS.

A TERRESTRIAL HORIZONTAL NETWORK WAS THEN RAN, EXTENDING THE CONTROL THROUGHOUT THE PROJECT LIMITS. A LEAST SQUARES ADJUSTMENT WAS PERFORMED HOLDING THE PROJECT GPS CONTROL POINTS. THE RESULTS OF THE ADJUSTMENT PASSED ODOT GEOMETRONIC STANDARDS FOR A 2D NETWORK.

**VERTICAL CONTROL**

ELEVATIONS ON THE CONTROL POINTS ARE BASED UPON THE NAVD88 VERTICAL DATUM. DIFFERENTIAL LEVEL LOOPS WERE RAN FROM NGS BENCHMARK Y548 TO CONTROL POINT 1747802 AND FROM NGS BENCH MARK S6 RESET TO CONTROL POINT 1747807. DIFFERENTIAL LEVELS WERE THEN RAN FROM CONTROL POINT 1747807, THROUGH SET CONTROL POINTS 1747803-1747806 AND CLOSING IN ON POINT 1747802. THESE LEVELING RUNS VERIFIED THE VERTICAL POSITIONS OF BOTH NGS BENCHMARKS AND ESTABLISHED VERTICAL POSITIONS ON THE CONTROL POINTS. A SUPPLEMENTAL LEVEL LOOP WAS RAN FROM 1747807 THROUGH 1747808 AND 1747810.

**EQUIPMENT USED**

LEICA VIVA TS15 WITH THE FOLLOWING ACCURACY:  
 STANDARD ANGULAR ERROR +/- 1 SECOND; STANDARD DISTANCE ERROR OF +/- 1MM + 1.5 PPM.  
 LEICA GX1230 DUAL FREQUENCY RECEIVER:  
 PHASED DIFFERENTIAL STATIC METHOD - HORIZONTAL ERROR OF 5MM +0.5 PPM AND A VERTICAL ERROR OF 10MM +0.5 PPM.  
 PHASED DIFFERENTIAL RTK METHOD - HORIZONTAL ERROR 10MM +1 PPM AND A VERTICAL ERROR 20MM + 1 PPM  
 LEICA VIVA GS1A DUAL FREQUENCY RECEIVER WITH THE FOLLOWING ACCURACY:  
 PHASED DIFFERENTIAL STATIC METHOD-HORIZONTAL ERROR OF 3MM +0.5 PPM AND A VERTICAL ERROR OF 5MM +0.5 PPM PHASED DIFFERENTIAL RTK METHOD-HORIZONTAL ERROR OF 8MM +0.5 PPM AND A VERTICAL ERROR OF 15MM +0.5 PPM. LEICA DNA10 DIGITAL LEVEL WITH THE FOLLOWING ACCURACY: 1.5MM STANDARD DEVIATION PER 1 KM DOUBLE-RUN LEVEL CIRCUIT.  
 LEICA DNA10 DIGITAL LEVEL WITH THE FOLLOWING:  
 1.5MM STANDARD DEVIATION PER 1KM DOUBLE-RUN LEVEL CIRCUIT.

**LEGEND**

- ▲ SET NETWORK POINT
- ☆ FOUND GPS STATION
- ★ SET GPS STATION
- ★-★ LINES OF OBSERVATION (GPS)
- ▲-▲ LINES OF OBSERVATION (TERRESTRIAL)

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ENGLISH  
  
 SEPTEMBER, 2015  
 NO SCALE  
 SHEET 2 OF 6

DESIGNED BY: S CAPPELLO | DRAFTED BY: R CARSON | CHK'D BY: A AUSLAND