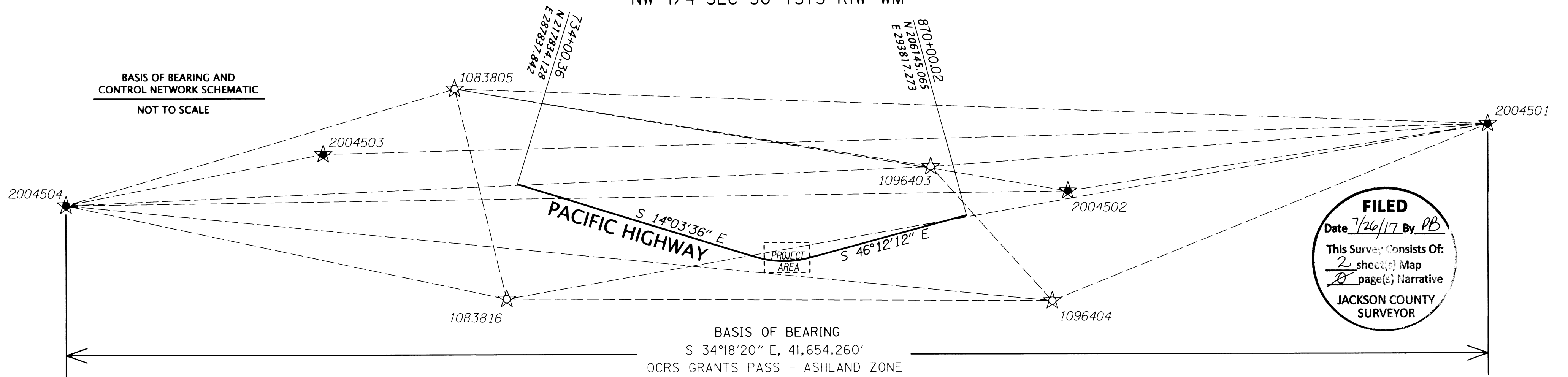


NW 1/4 SEC 30 T37S R1W WM



NETWORK POINT COORDINATE TABLE

FD=FOUND CS=JACKSON COUNTY FILED SURVEY

GEODETIC DATA TABLE

*ALL ORTHO HEIGHTS ARE GEOID DERIVED

PT. NO.	OCS NORTHING	OCS EASTING	DATE	DESCRIPTION
1083805	220798.13	289328.10	3/23/2017	FD 3" BRASS DISK "OREGON STATE HIGHWAY DIV. 10838-05" PER CS 19957
1083816	216329.36	284846.65	3/23/2017	FD 1" COPPER PLUG "ODOT 10838-16" PER CS 19957
1096403	207691.38	294555.85	3/23/2017	FD 1" COPPER PLUG "ODOT 10964-03" PER CS 19357
1096404	202628.74	293027.41	3/23/2017	FD 1" COPPER PLUG "ODOT 10964-04" PER CS 19357
2004501	194371.70	304022.57	3/23/2017	FD 3" BRASS DISK "STATE HIGHWAY DEPARTMENT" PER ODOT DRG 8B-10-21
2004502	203886.66	296012.90	3/23/2017	FD 3" BRASS DISK "STATE HIGHWAY DEPARTMENT" PER ODOT DRG 8B-10-20
2004503	223111.69	285713.10	3/23/2017	FD 3" BRASS DISK "STATE HIGHWAY DEPARTMENT" PER ODOT DRG 8B-8-23
2004504	228779.94	280545.97	3/23/2017	FD 2.5" BRASS DISK "STATE HIGHWAY DEPARTMENT REFERENCE PT 599+57.11" PER ODOT DRG 8B-8-23

PT. NO.	LATITUDE (N)	LONGITUDE (W)	ELL. HT.	GEOID SEP.	ORTHO. HT.
1083805	42° 21' 17.75262" N	122° 52' 11.47279" W	1236.54	-79.64	1316.18
1083816	42° 20' 33.84909" N	122° 53' 11.46642" W	1274.36	-79.58	1353.94
1096403	42° 19' 08.00312" N	122° 51' 02.84342" W	1327.18	-79.40	1406.58
1096404	42° 18' 18.08159" N	122° 51' 23.56399" W	1340.50	-79.31	1419.81
2004501	42° 16' 55.88807" N	122° 48' 57.92211" W	1388.48	-79.07	1467.55
2004502	42° 18' 30.33966" N	122° 50' 43.74088" W	1329.70	-79.32	1409.02
2004503	42° 21' 40.79668" N	122° 52' 59.45182" W	1215.82	-79.68	1295.50
2004504	42° 22' 37.04953" N	122° 54' 07.88852" W	1182.22	-79.76	1261.98

SURVEY NARRATIVE:

THE PURPOSE OF THIS RETRACEMENT SURVEY IS TO ESTABLISH AND RESOLVE THE LOCATION OF THE RIGHT OF WAY CENTER LINE FOR A PORTION OF INTERSTATE 5. MORE SPECIFICALLY, THE CENTER LINE RETRACEMENT IS NEEDED TO DEFINE A PORTION OF THE RIGHT OF WAY BOUNDARY, LYING EASTERLY OF I-5 AND BETWEEN STATIONS 804+54.23 AND 824+61.40 FOR PLANNING PURPOSES IN SUPPORT OF A PROPOSED SAFETY CONSTRUCTION PROJECT. IT IS NOT THE INTENT OF THIS SURVEY TO RESOLVE THE RIGHT OF WAY OUTSIDE THE SAID AREA. THE NORTHERLY TANGENT WAS ESTABLISHED BY HOLDING THE RECORD DISTANCE OF 100.00 FEET, PER ODOT DRG 8B-8-18, WESTERLY OF FOUND MONUMENT 1000 AND 120.00 FEET WESTERLY OF MONUMENT 1002. THE SOUTHERLY TANGENT WAS ESTABLISHED BY OFFSETTING THE RECORD DISTANCE OF 100.00 FEET WESTERLY OF FOUND MONUMENT 1010 AND 125.00 FEET EASTERLY OF FOUND MONUMENT 1011, PER ODOT DRG 8B-10-20. THESE TWO TANGENTS WERE EXTENDED TO A POINT ON INTERSECTION (PI). THE DEGREE OF CURVE AND SPIRAL LENGTHS WERE HELD TO CALCULATE THE CURVE DATA. THIS CENTER LINE FIT THE EXISTING VIADUCT STRUCTURE EXTREMELY WELL WHEN COMPARED TO THE AGENCY'S SCAN DATA AND AS-BUILT PLANS. FIELD MEASUREMENTS AND FILED SURVEY MAPS INDICATED A STATIONING ERROR OF +/- 1 FOOT WITHIN THE PROJECT LIMITS. RECORD STATIONING OF 760+00.00 WAS ESTABLISHED AND HELD AT MONUMENT 1002, PER ODOT DRG 8B-8-18. THIS FIT THE RECORD CURVE STATIONING WELL AND ALSO FIT THE RECORD STATIONING AT MONUMENT 1011 WITHIN 0.02', 11,000 FEET AWAY.

BEARINGS AND COORDINATES ARE BASED ON THE OREGON COORDINATE REFERENCE SYSTEM (OCS), GRANTS PASS - ASHLAND ZONE, NAD 83(2011) EPOCH 2010.00.

ALL COORDINATES ARE IN INTERNATIONAL FEET.

SURVEY WORK FOR THIS PROJECT WAS PERFORMED BY ODOT SURVEY CREWS FROM MARCH, 2017 TO MAY, 2017.

HORIZONTAL CONTROL:

A STATIC GPS NETWORK USING 2 HOUR OCCUPATIONS WAS PERFORMED TO DERIVE THE COORDINATES ON PRIMARY CONTROL POINTS 2004504 AND 2004501. THIS NETWORK WAS PROCESSED HOLDING OREGON REAL TIME GEODETIC NETWORK (ORGN) STATIONS CTPT AND ASHL. HOLDING THE PRIMARY CONTROL POINTS FIXED, A SUBSEQUENT RAPID STATIC GPS NETWORK WAS PERFORMED USING 20 MINUTE OCCUPATIONS THROUGH SET PROJECT CONTROL POINTS 2004502 AND 2004503. FOUR ADDITIONAL CONTROL MONUMENTS (1096403, 1096404, 1083805 AND 1083816) FROM PRIOR ODOT PROJECTS WERE ALSO UTILIZED IN THIS GPS NETWORK, WITH NEW HORIZONTAL POSITIONS ESTABLISHED FOR THIS PROJECT.

REFERENCE DOCUMENTS USED:

ODOT DRG. 8B-8-18, ODOT DRG. 8B-8-23, ODOT DRG. 8B-10-20, COLLINS PARK ADDITION, C.S. 556, C.S. 10825, C.S. 14328, C.S. 15252, C.S. 17166, C.S. 17613, C.S. 17920, C.S. 18071, C.S. 21255, C.S. 21895, C.S. 21965, C.S. 22034, CITY OF MEDFORD CENTER LINE MONUMENTS REFERENCE NOTES FOR THE INTERSECTIONS OF E. MAIN ST AND ALMOND ST, E. MAIN ST. AND CRATER LAKE AVE., ALMOND ST. AND E. 8TH ST., JACKSON COUNTY DLC42SE RE-ESTAB.

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

PT. NO.	SEMI MAJOR	SEMI MINOR	ORIENTATION *
2004501	0.01'	0.01'	1°
2004504	0.01'	0.01'	6°

* NORTH AZIMUTH

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

PT. NO.	SEMI MAJOR	SEMI MINOR	ORIENTATION *
1083805	0.01'	0.01'	-2°
1083816	0.01'	0.01'	-11°
1096403	0.01'	0.01'	-9°
1096404	0.01'	0.01'	-7°
2004502	0.01'	0.01'	0°
2004503	0.01'	0.01'	6°

* NORTH AZIMUTH

REGISTERED PROFESSIONAL LAND SURVEYOR
Stuart E. Cappello
OREGON
JULY 09, 2001
STUART E. CAPPELLO
52908
EXPIRES: 12/31/2017

POINT LEGEND	
○	RECOVERED MONUMENT
□	CALCULATED POINT
★	SET GPS POINT
☆	FOUND GPS POINT

OREGON DEPARTMENT OF TRANSPORTATION
HORIZONTAL CONTROL, RECOVERY AND RETRACEMENT MAP
PACIFIC HIGHWAY
INTERSTATE 5 M.P. 27.5 TO M.P. 30
JACKSON COUNTY

KEY NO. 20045
REGION 3 TECH CENTER
100 ANTELOPE ROAD
WHITE CITY, OREGON, 97503



ENGLISH
JULY 26, 2017
NO SCALE
SHEET 1 OF 2

DESIGNED BY: S. CAPPELLO DRAFTED BY: M. CHACON CHK'D BY: L. MILES

**** RECEIVED ****
 DATE 7/26/17 BY AB
 This survey consists of:
 2 sheet(s) Map
 0 page(s) Narrative
 JACKSON COUNTY SURVEYOR

RECOVERED MONUMENT TABLE

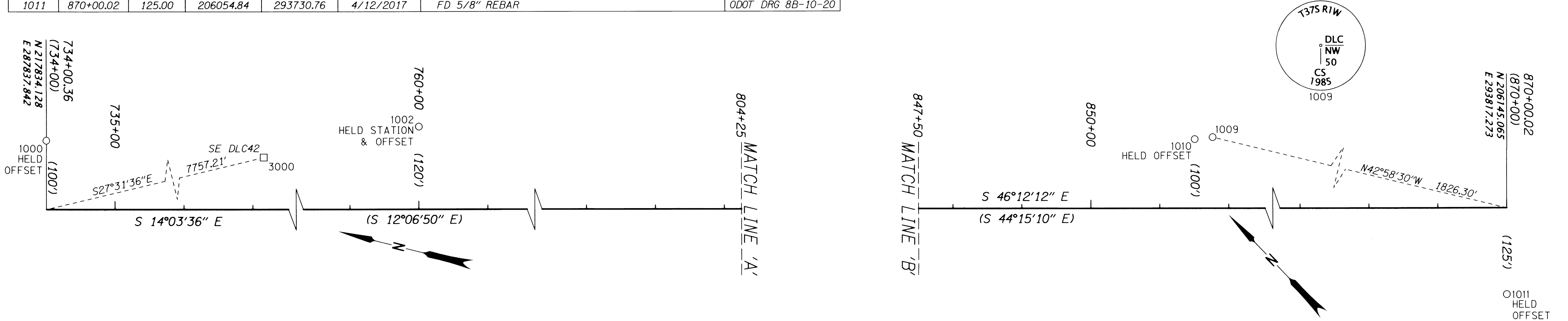
JACO=JACKSON COUNTY SURVEYOR FD=FOUND

PT. NO.	STATION	OFFSET	OCRS NORTHING	OCRS EASTING	DATE	DESCRIPTION	REFERENCE DOCUMENT
1000	730+00.24	-100.00	217858.56	287934.81	4/11/2017	FD 5/8" REBAR	ODOT DRG 8B-8-18
1002	760+00.00	-120.00	215341.53	288585.79	4/11/2017	FD 5/8" REBAR	ODOT DRG 8B-8-18
1009	851+76.62	-102.85	207481.28	292572.32	4/11/2017	FD 2-1/2" BRASS DISK "T37S R1W, DLC 50, CS 1985"	JACO 3rd RE-ESTAB
1010	851+50.62	-100.00	207497.22	292551.58	4/11/2017	FD 5/8" REBAR	ODOT DRG 8B-10-20
1011	870+00.02	125.00	206054.84	293730.76	4/12/2017	FD 5/8" REBAR	ODOT DRG 8B-10-20

CALCULATED POINT TABLE

CL MON-CENTERLINE MONUMENT

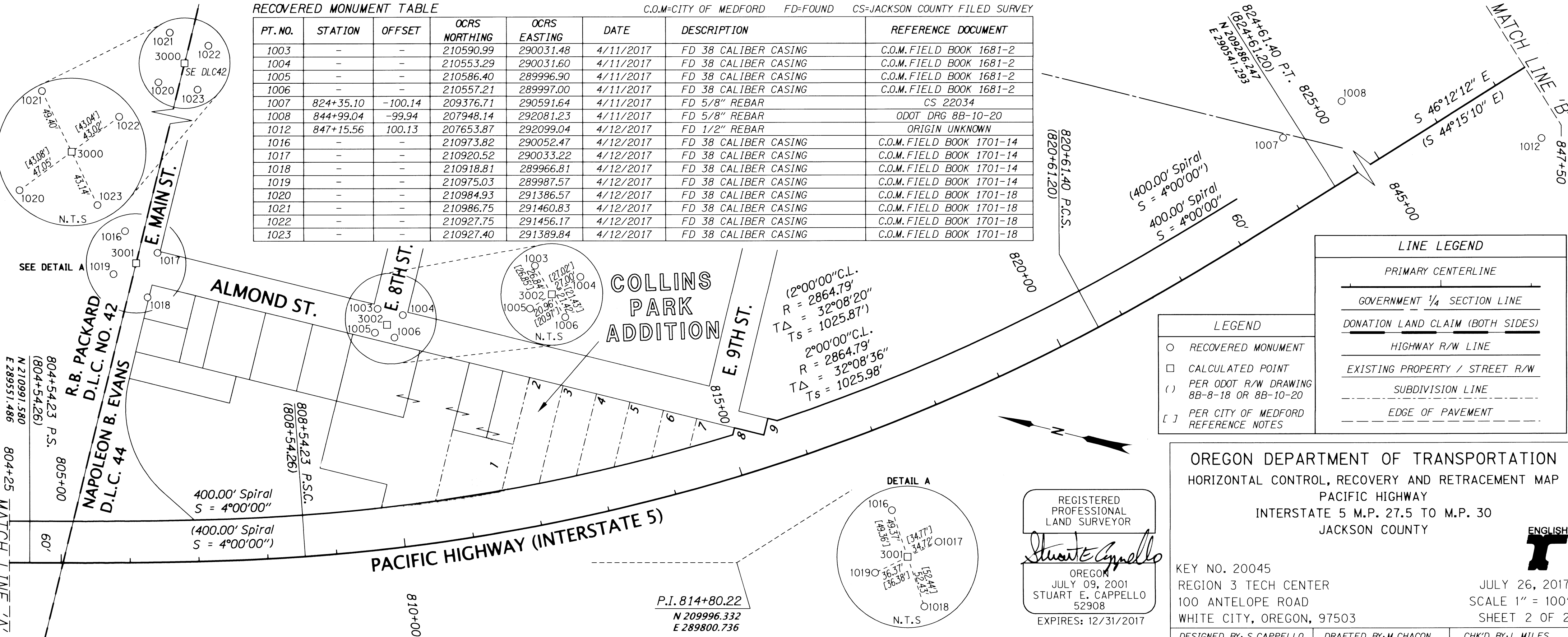
PT. NO.	OCRS NORTHING	OCRS EASTING	DESCRIPTION
3000	210955.07	291422.93	SE DLC 42 CALCULATED POSITION
3001	210947.14	290010.93	E. MAIN ST / ALMOND ST. CL MON CALCULATED POSITION
3002	210572.20	290012.31	ALMOND ST. / E. 8TH ST. CL MON CALCULATED POSITION



RECOVERED MONUMENT TABLE

C.O.M.=CITY OF MEDFORD FD=FOUND CS=JACKSON COUNTY FILED SURVEY

PT. NO.	STATION	OFFSET	OCRS NORTHING	OCRS EASTING	DATE	DESCRIPTION	REFERENCE DOCUMENT
1003	-	-	210590.99	290031.48	4/11/2017	FD 38 CALIBER CASING	C.O.M. FIELD BOOK 1681-2
1004	-	-	210553.29	290031.60	4/11/2017	FD 38 CALIBER CASING	C.O.M. FIELD BOOK 1681-2
1005	-	-	210586.40	289996.90	4/11/2017	FD 38 CALIBER CASING	C.O.M. FIELD BOOK 1681-2
1006	-	-	210557.21	289997.00	4/11/2017	FD 38 CALIBER CASING	C.O.M. FIELD BOOK 1681-2
1007	824+35.10	-100.14	209376.71	290591.64	4/11/2017	FD 5/8" REBAR	CS 22034
1008	844+99.04	-99.94	207948.14	292081.23	4/11/2017	FD 5/8" REBAR	ODOT DRG 8B-10-20
1012	847+15.56	100.13	207653.87	292099.04	4/12/2017	FD 1/2" REBAR	ORIGIN UNKNOWN
1016	-	-	210973.82	290052.47	4/12/2017	FD 38 CALIBER CASING	C.O.M. FIELD BOOK 1701-14
1017	-	-	210920.52	290033.22	4/12/2017	FD 38 CALIBER CASING	C.O.M. FIELD BOOK 1701-14
1018	-	-	210918.81	289966.81	4/12/2017	FD 38 CALIBER CASING	C.O.M. FIELD BOOK 1701-14
1019	-	-	210975.03	289987.57	4/12/2017	FD 38 CALIBER CASING	C.O.M. FIELD BOOK 1701-14
1020	-	-	210984.93	291386.57	4/12/2017	FD 38 CALIBER CASING	C.O.M. FIELD BOOK 1701-18
1021	-	-	210986.75	291460.83	4/12/2017	FD 38 CALIBER CASING	C.O.M. FIELD BOOK 1701-18
1022	-	-	210927.75	291456.17	4/12/2017	FD 38 CALIBER CASING	C.O.M. FIELD BOOK 1701-18
1023	-	-	210927.40	291389.84	4/12/2017	FD 38 CALIBER CASING	C.O.M. FIELD BOOK 1701-18



LINE LEGEND

- PRIMARY CENTERLINE
- GOVERNMENT 1/4 SECTION LINE
- DONATION LAND CLAIM (BOTH SIDES)
- HIGHWAY R/W LINE
- EXISTING PROPERTY / STREET R/W
- SUBDIVISION LINE
- EDGE OF PAVEMENT

LEGEND

- RECOVERED MONUMENT
- CALCULATED POINT
- () PER ODOT R/W DRAWING 8B-8-18 OR 8B-10-20
- [] PER CITY OF MEDFORD REFERENCE NOTES

OREGON DEPARTMENT OF TRANSPORTATION
 HORIZONTAL CONTROL, RECOVERY AND RETRACEMENT MAP
 PACIFIC HIGHWAY
 INTERSTATE 5 M.P. 27.5 TO M.P. 30
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