

COUNTY SURVEYOR'S STATEMENT:

THIS MAP HAS BEEN EXAMINED IN ACCORDANCE WITH SECTION 8766 OF THE PROFESSIONAL LAND SURVEYOR'S ACT THIS 20th DAY OF March, 2011.

John S. Parrish
JOHN S. PARRISH, L.S. NO. 5050
COUNTY SURVEYOR



RECORD OF SURVEY No. 31-61

IN THE UNINCORPORATED TERRITORY OF THE COUNTY OF MONO, STATE OF CALIFORNIA, BEING SECTIONS 21, 22, 27-30, 35 & 36, TOGETHER WITH THE SOUTHERLY TOWNSHIP LINE FROM SECTION 33 TO 36, TOWNSHIP 7 NORTH, RANGE 23 EAST, MOUNT DIABLO MERIDIAN

JOHNSON-FRANK & ASSOCIATES, INC.
ALAN D. FRANK, PLS
SEPTEMBER 2010

RECORDER'S STATEMENT:

INSTRUMENT NO. 2011002251

FILED THIS 4th DAY OF APRIL, 2011
AT 11:55 A.M., IN BOOK 4 OF RECORD OF SURVEY
MAPS AT PAGE 96, AT THE REQUEST OF THE
UNITED STATES FOREST SERVICE.

LINDA ROBERTS BY *Sharon B. Hale*
COUNTY RECORDER DEPUTY COUNTY RECORDER

FEE \$ 0.00

BASIS OF BEARINGS:

THE BASIS OF BEARINGS FOR THIS RECORD OF SURVEY IS THE CALIFORNIA COORDINATE SYSTEM, NAD83 (CCS83) [2002.00 EPOCH], STATE PLANE GRID ZONE 3, AS DERIVED FROM THE CONTINUOUSLY OPERATING GPS (CGPS) STATIONS P135, P136, AND P654. POSITIONS FOR SAID CGPS STATIONS WERE DERIVED VIA THE NATIONAL GEODETIC SURVEY'S (NGS) ONLINE POSITIONING USER SERVICE (OPUS). TWENTY FOUR HOUR DATA SETS FOR EACH OF THESE CGPS SITES WERE SUBMITTED TO OPUS FOR DAYS 124 (MAY 4, 2010), 125 (MAY 5, 2010), AND 126 (MAY 6, 2010). THE THREE POSITIONS RETURNED VIA OPUS FOR EACH STATION WERE THEN AVERAGED AND HELD AS FIXED CONTROL. THE STANDARD DEVIATION OF THE MEAN FOR THE POSITION OF EACH STATION, AS DERIVED FROM THE NGS OPUS STANDARD DEVIATIONS ON EACH INDIVIDUAL RETURNED POSITION, ARE AS FOLLOWS:

	HORIZONTAL	VERTICAL
P135	+/-0.04'	+/-0.07'
P136	+/-0.05'	+/-0.05'
P654	+/-0.02'	+/-0.06'

THIS BASIS OF BEARINGS IS SHOWN LOCALLY HEREON BY THE WEST LINE OF THE SOUTHWEST 1/4 OF SECTION 28, BETWEEN STATIONS 300200 AND 300240, SAID LINE HAVING A GRID BEARING OF N03°16'42"W.

CONVERGENCE: GEODETIC AZIMUTH = GRID AZIMUTH + 0°37'55"

ALL BEARINGS SHOWN HEREON ARE GRID BEARINGS WITH THE EXCEPTION OF RECORD BEARINGS, WHICH ARE ALL TRUE NORTH BEARINGS.

BASIS OF COORDINATES:

THE BASIS FOR THE COORDINATES ON THIS RECORD OF SURVEY IS THE CCS83 (2002.00 EPOCH), ZONE 3, AS DETERMINED LOCALLY BY DIRECT GPS DUAL FREQUENCY STATION TIES TO CGPS STATIONS P135, P136, AND P654 USING POSITIONS FOR SAID CGPS STATIONS DERIVED AS DESCRIBED ABOVE. SAID POSITIONS FOR SAID STATIONS ARE PART OF THE CALIFORNIA SPATIAL REFERENCE NETWORK (CSRN) IN THAT THEY MEET ALL OF THE REQUIREMENTS OF SECTION 8857 OF THE CALIFORNIA PUBLIC RESOURCES CODE (CPRC). THE OPUS DERIVED HORIZONTAL ACCURACIES ON THESE STATIONS MEET OR EXCEED THE FEDERAL GEOGRAPHIC DATA COMMITTEE (FGDC) 2-CENTIMETER ACCURACY CLASSIFICATION PER FGDC-STD-007.2-1998. SAID OPUS DERIVED POSITIONS FOR SAID CGPS STATIONS WERE HELD "FIXED" IN THIS SURVEY.

NO CPRC SECTION 8813.2 ACCURACY IS CLAIMED FOR THE COORDINATE POSITIONS DERIVED IN THIS SURVEY. HOWEVER, ALL FOUND MONUMENTS WERE TIED DIRECTLY TO THE THREE CONTROLLING CGPS STATIONS AS WELL AS TO AT LEAST TWO ONSITE CONTROL STATIONS USING DUAL FREQUENCY STATIC, POST-PROCESSED GPS, RESULTING IN A LOCAL NETWORK 95% CONFIDENCE OF ±0.13 FOOT (±4.0 CM) FOR THOSE STATIONS. THIS NETWORK ACCURACY EXCEEDS THAT SPECIFIED IN THE U.S. FOREST SERVICE'S "STANDARDS AND GUIDELINES FOR CADASTRAL SURVEYS USING GLOBAL POSITIONING SYSTEM METHODS", WHICH REQUIRES A LOCAL ACCURACY 95% CONFIDENCE ON CADASTRAL MEASUREMENTS OF LESS THAN ±0.33 FOOT (±10 CM).

SCALE FACTOR:

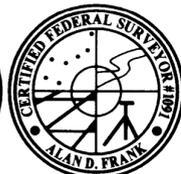
DISTANCES SHOWN HEREON ARE GROUND DISTANCES, UNLESS NOTED "GRID", WHICH INDICATES STATE PLANE GRID DISTANCES, SHOWN IN U.S. SURVEY FEET. TO OBTAIN GRID DISTANCES COMMENSURATE WITH STATE PLANE COORDINATES, MULTIPLY THE GROUND DISTANCES BY A COMBINED FACTOR (CF) OF 0.99963. THIS CF WAS COMPUTED AT THE SOUTHWEST CORNER OF SECTION 28, STATION 300200, AT AN ELEVATION OF 7692 FEET.

GRID DISTANCE = GROUND DISTANCE X 0.99963

SURVEYOR'S STATEMENT:

THIS MAP CORRECTLY REPRESENTS A SURVEY MADE BY ME OR UNDER MY DIRECTION IN CONFORMANCE WITH THE REQUIREMENTS OF THE PROFESSIONAL LAND SURVEYOR'S ACT AT THE REQUEST OF THE USDA, FOREST SERVICE, IN MAY-SEPTEMBER 2010.

Alan D. Frank 3/25/2011
ALAN D. FRANK, L.S. NO. 7172 CFEDS 1091



STATION	LATITUDE	LONGITUDE	(U. S. SURVEY FEET)		STATION
			NORTHING	EASTING	
100200	38-25-01.3051	119-30-14.0325	2339970.51	6847067.65	100200
100207	38-25-05.4053	119-30-14.0352	2340385.27	6847063.02	100207
100207RM	38-25-05.4773	119-30-14.0948	2340392.50	6847058.20	100207RM
100240	38-25-26.2348	119-30-15.0981	2342491.42	6846956.01	100240
100300	38-25-52.1280	119-30-15.2705	2345110.56	6846914.42	100300
140200	38-24-58.7344	119-29-43.0804	2339736.80	6849533.77	140200
140240	38-25-25.3306	119-29-43.1997	2342427.09	6849495.39	140240
140300	38-25-50.6960	119-29-43.3136	2344922.88	6849458.78	140300
160220	38-25-11.9322	119-29-26.6344	2341085.93	6850828.24	160220
160240	38-25-24.8605	119-29-26.6453	2342393.71	6850813.27	160240
200100	38-24-09.0346	119-29-04.4045	2334742.57	6852666.38	200100
200200	38-24-59.2713	119-29-10.1666	2339819.36	6852152.66	200200
200200RM	38-24-59.5274	119-29-09.6853	2339845.68	6852190.68	200200RM
200200CNAIL	38-24-59.2754	119-29-10.2157	2339819.73	6852148.74	200200CNAIL
200220	38-25-11.8312	119-29-10.1283	2341089.91	6852141.94	200220
200240	38-25-24.3897	119-29-10.0908	2342360.32	6852131.16	200240
200260	38-25-37.1680	119-29-10.2495	2343652.80	6852104.53	200260
200300	38-25-49.9461	119-29-10.4040	2344945.27	6852078.23	200300
220220	38-25-11.7279	119-28-53.8375	2341093.54	6853438.51	220220
220240	38-25-24.3913	119-28-54.0275	2342374.37	6853409.45	220240
220260	38-25-37.2476	119-28-54.3129	2343674.62	6853372.59	220260
220300	38-25-50.0975	119-28-54.5980	2344974.24	6853335.76	220300
240200	38-24-58.8554	119-28-37.1281	2339805.90	6854782.51	240200
240300	38-25-50.2604	119-28-38.8113	2345004.41	6854591.73	240300
300100	38-24-09.0962	119-28-00.1775	2334804.76	6857778.83	300100
300200	38-24-58.4281	119-28-04.0883	2339791.55	6857412.48	300200
300240	38-25-24.3928	119-28-05.6139	2342416.72	6857262.11	300240
300300	38-25-50.3428	119-28-07.1390	2345040.40	6857111.81	300300
300320	38-26-02.7413	119-28-05.6569	2346295.90	6857215.92	300320
300340	38-26-15.1379	119-28-04.1741	2347551.21	6857320.07	300340
300400	38-26-39.2442	119-28-02.9144	2349990.84	6857393.39	300400
340100	38-24-08.5443	119-27-27.8613	2334777.46	6860351.84	340100
340200	38-24-58.6704	119-27-32.7582	2339843.68	6859905.64	340200
340300	38-25-50.2535	119-27-34.4874	2345060.13	6859710.01	340300
340320	38-26-02.7692	119-27-33.9872	2346326.62	6859735.73	340320
340340	38-26-15.2848	119-27-33.4871	2347593.11	6859761.44	340340
340400	38-26-40.9484	119-27-32.4614	2350190.07	6859814.17	340400
360240	38-25-24.2430	119-27-16.8086	2342444.67	6861146.10	360240
360300	38-25-50.2412	119-27-18.4969	2345073.06	6860982.39	360300
360340	38-26-15.3588	119-27-17.8378	2347614.47	6861006.46	360340
360400	38-26-40.9823	119-27-16.7008	2350207.48	6861067.97	360400
400100	38-24-07.9923	119-26-55.5451	2334750.39	6862924.85	400100
400200	38-24-58.1850	119-26-57.6257	2339825.83	6862702.23	400200
400220	38-25-11.1862	119-26-58.8129	2341139.92	6862592.99	400220
400240	38-25-24.1901	119-27-00.0002	2342454.29	6862483.74	400240
400300	38-25-50.2202	119-27-02.5094	2345085.17	6862254.54	400300
400320	38-26-02.8301	119-27-02.3501	2346360.89	6862252.91	400320
400340	38-26-15.4323	119-27-02.1884	2347635.84	6862251.48	400340
400347	38-26-18.1045	119-27-02.0414	2347906.28	6862260.15	400347
400347RM	38-26-18.1179	119-27-01.8789	2347907.78	6862273.06	400347RM
400400	38-26-41.0200	119-27-00.9424	2350225.33	6862321.58	400400
420220	38-25-11.2024	119-26-42.8521	2341155.85	6863863.16	420220
420240	38-25-24.1735	119-26-44.0742	2342466.86	6863751.12	420240
420300	38-25-50.3157	119-26-46.5955	2345109.06	6863520.70	420300
420320	38-26-02.8507	119-26-46.2860	2346377.34	6863531.05	420320
440100	38-24-07.4404	119-26-23.2289	2334723.59	6865497.88	440100
440200	38-24-58.2800	119-26-25.6345	2339864.14	6865248.16	440200
440300	38-25-50.4063	119-26-30.6985	2345132.50	6864785.52	440300
440400	38-26-41.0799	119-26-28.7994	2350260.19	6864878.64	440400
500100	38-24-06.8884	119-25-50.9127	2334697.02	6868070.91	500100
500140	38-24-32.6317	119-25-52.2780	2337299.86	6867932.49	500140
500200	38-24-58.3749	119-25-53.6433	2339902.69	6867794.09	500200
500240	38-25-24.1182	119-25-54.8082	2342505.73	6867671.66	500240
500300	38-25-49.8614	119-25-55.9732	2345108.76	6867549.24	500300
500340	38-26-15.2302	119-25-55.5545	2347675.37	6867553.27	500340
500400	38-26-41.2743	119-25-55.6617	2350309.81	6867514.68	500400
540100	38-24-06.3443	119-25-18.5640	2334671.52	6870646.53	540100
540200	38-24-58.2300	119-25-21.5242	2339917.34	6870350.47	540200
600100	38-24-05.8001	119-24-46.2153	2334646.26	6873222.16	600100
600140	38-24-31.9421	119-24-47.8106	2337289.19	6873064.46	600140
600160	38-24-45.0149	119-24-48.6066	2338610.84	6872985.75	600160
600200	38-24-58.0852	119-24-49.4050	2339932.24	6872906.86	600200
640100	38-24-06.1459	119-24-13.5119	2334711.61	6875824.97	640100
640140	38-24-31.3877	119-24-14.0209	2337264.48	6875754.55	640140
640160	38-24-44.3063	119-24-14.2814	2338571.02	6875718.51	640160
640200	38-24-57.2247	119-24-14.5419	2339877.55	6875682.47	640200
700100	38-24-06.6587	119-23-38.7090	2334796.08	6878594.70	700100
700140	38-24-30.8222	119-23-39.7120	2337239.40	6878485.98	700140
700200	38-24-56.3561	119-23-39.6769	2339822.33	6878458.26	700200
P135	38-42-16.6215	119-00-55.2827	2446554.01	6985372.15	P135
P136	38-45-40.9047	119-27-30.6405	2465514.37	6858675.58	P136
P654	38-03-28.5485	119-09-00.6265	2210483.56	6950295.84	P654

PURPOSE OF SURVEY:

THE PURPOSE OF THIS SURVEY IS TO LOCATE, MONUMENT, MARK, AND POST THE NATIONAL FOREST PROPERTY BOUNDARY. SAID PROPERTY BOUNDARY LINES HAVE BEEN INTERVISIBLY POSTED AT A MAXIMUM INTERVAL DISTANCE OF 200 FEET.

THIS MAP IS BEING FILED PURSUANT TO THE PROFESSIONAL LAND SURVEYOR'S ACT, CHAPTER 15, ARTICLE 5, SECTION 8762, PARAGRAPH (A) & (B)(2), OF THE BUSINESS AND PROFESSIONS CODE.

HISTORY OF SURVEYS AND BOUNDARY DISCUSSION:

THERE HAVE BEEN TWO GOVERNMENTAL SURVEY EFFORTS WITHIN THE PROJECT AREA, AND NO PRIVATE SURVEYS OF RECORD.

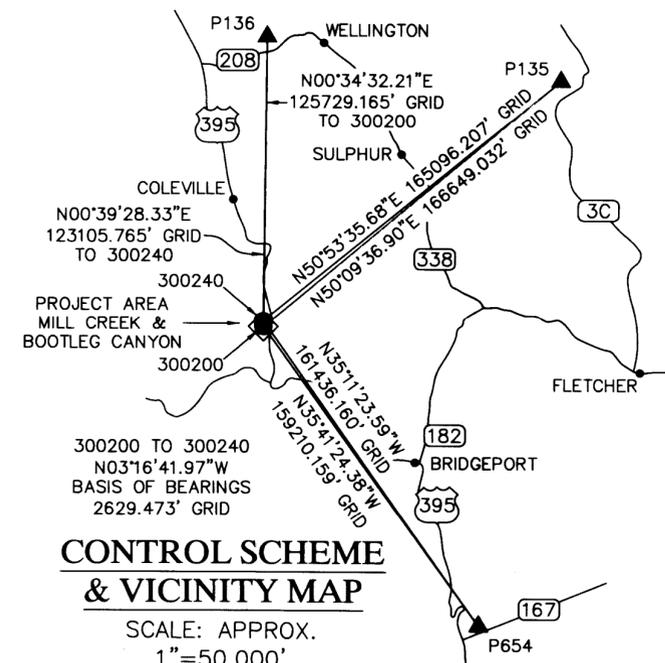
R1: ORIGINAL SURVEY PLAT AND NOTES, T7N, R23E, MDM, APPROVED BY THE U.S. SURVEYOR GENERAL'S OFFICE ON MARCH 30, 1880

R2: DEPENDENT RESURVEY, T7N, R23E, MDM, APPROVED BY THE CHIEF CADASTRAL SURVEYOR - CALIFORNIA, U.S. DEPARTMENT OF THE INTERIOR, BUREAU OF LAND MANAGEMENT, ON NOVEMBER 8, 1989

IN RETRACING R2, WE FIND THE RESULTS OF THE SURVEY COMMENSURATE WITH THE PROCESS AND PROCEDURES OF THE TIME GIVEN THE EXTREME TERRAIN THROUGHOUT THE AREA.

THE ONLY TRUE DISCREPANCY FOUND WAS AT CORNER 200200, THE CORNER COMMON TO S30S29/S31S32. THIS CORNER WAS ESTABLISHED BY DOUBLE PROPORTION BY THE 1989 BLM SURVEY. THE CORRECT LOCATION IS SHOWN ON THE BLM PLAT. HOWEVER, WE FIND IN THE FIELD THAT THE REFERENCE MONUMENT (200200RM) AND BEARING OBJECTS, AS MARKED IN THE FIELD, DO NOT AGREE WITH THE FINAL AND OFFICIAL NOTES. THE REFERENCE MONUMENT (200200RM) AND THE BEARING TREE, ARE MARKED IN THE FIELD AND REFERENCE A FOUND CONCRETE NAIL (C-NAIL), REFERRED TO HEREON AS 200200CNAIL, SEE PAGES 3 AND 6. THIS C-NAIL IS AN APPARENT TEMPORARY POINT SET BY THE BLM CREW. THE BEARINGS AND DISTANCES FROM THE REFERENCE OBJECTS, AS LISTED IN THE OFFICIAL NOTES, INTERSECT AT A LOCATION S84°36'W, 3.94' FROM SAID C-NAIL. HOWEVER, THE LOCATION OF THE TRUE CORNER, BY DOUBLE PROPORTION, AND AS SHOWN ON THE OFFICIAL PLAT, IS S84°36'E, 3.94' FROM SAID C-NAIL, MAKING IT APPARENT THAT DURING THE OFFICE CALCULATIONS, THE BEARING WAS TRANSPOSED, AND THAT THE MONUMENTS AND REFERENCE OBJECTS WERE NEVER REVISITED IN THE FIELD.

DISCUSSIONS REGARDING CORNER 200200 WERE HELD WITH BLM PERSONNEL; LANCE BISHOP AND JAMES McCAVITT, AS WELL AS WITH JOHN S. PARRISH WHO WAS CHIEF OF CADASTRAL SURVEYS AT THE TIME, AND IN RESPONSIBLE CHARGE, OF THE SURVEY IN QUESTION. WITH THEIR CONCURRENCE, IT WAS DECIDED THE BEST COURSE OF ACTION WOULD BE TO RE-ESTABLISH CORNER 200200 BY DOUBLE PROPORTION AS THE PREVIOUS SURVEY HAD INTENDED, AND THAT BLM WOULD FOLLOW UP WITH A CORRECTIVE SURVEY IN THE FUTURE, AT WHICH TIME THEY WOULD REVIEW THIS SURVEY AND ACCEPT THE FOREST MONUMENT SET HEREON.



CONTROL SCHEME & VICINITY MAP

SCALE: APPROX. 1"=50,000'