

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

ORIGINAL

FIELD NOTES

OF THE

DEPENDENT RESURVEY OF

THE FIFTH STANDARD PARALLEL SOUTH,
THROUGH A PORTION OF RANGE 63 EAST

AND

A PORTION OF THE EAST BOUNDARY,
TOWNSHIP 20 SOUTH, RANGE 62 EAST

AND

THE SURVEY OF A PORTION OF THE SUBDIVISIONAL LINES

AND

THE SUBDIVISION OF SECTION 31,
TOWNSHIP 20 SOUTH, RANGE 63 EAST,
OF THE MOUNT DIABLO MERIDIAN,
IN THE STATE OF NEVADA

EXECUTED BY

Lee T. Wilson, Cadastral Surveyor

Under Special Instructions dated January 3, 2024,

and approved January 3, 2024,

which provided for the surveys included under Group No. 1011,

and Assignment Instructions dated January 3, 2024.

Survey commenced January 9, 2024

Survey completed March 12, 2024

INDEX DIAGRAM

TOWNSHIP 20 SOUTH, RANGE 63 EAST, MOUNT DIABLO MERIDIAN, NEVADA

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TOWNSHIP 20 SOUTH, RANGE 63 EAST, MOUNT DIABLO MERIDIAN, NEVADA

CHAINS

The following field notes are those of the dependent resurvey of the Fifth Standard Parallel South, through a portion of Range 63 East and a portion of the east boundary, Township 20 South, Range 62 East, and the survey of a portion of the subdivisional lines, and the subdivision of section 31, Township 20 South, Range 63 East, Mount Diablo Meridian, Nevada.

1881 - The Fifth Standard Parallel South, through Range 62 East, was surveyed by U.S. Deputy Surveyors J.M. Brunt and W.H. Proctor, under Contract No. 127.

1882 - The east boundary, Township 20 South, Range 62 East, was surveyed by U.S. Deputy Surveyors R.H. Woods and W.H. Myrick, under Contract No. 111.

1882 - The Fifth Standard Parallel South, through Range 63 East, and the east boundary were surveyed by U.S. Deputy Surveyor W.H. Myrick, under Contract No. 139.

1930-1933 - The corner of Townships 19 and 20 South, Ranges 63 and 64 East, was reestablished and the north boundary was surveyed by U.S. Cadastral Engineer C.S. Swanholm, under Group No. 159.

1931 - The Fifth Standard Parallel South, through Range 63 East, was dependently resurveyed by U.S. Cadastral Engineers C.S. Swanholm and A. Nelson, and U.S. Surveyor R.C. Yundt under Group No. 169.

1938 - The east boundary was independently resurveyed by Surveyor J.W. Hardison, and Public Land Surveyor W. McConkie, under Group No. 237.

1943 - The Fifth Standard Parallel South, through Range 62 East, was dependently resurveyed by Associate Cadastral Engineer E. Voigt, and Assistant Cadastral Engineer J.W. Hardison, under Group No. 336.

1962 - Nevada Protraction Diagram No. 5, Unit No. 113, was approved March 23, 1962.

1991-1994 - The Fifth Standard Parallel South, through a portion of range 62 East, was dependently resurveyed by Cadastral Surveyor R.A. Pratt, under Group No. 708.

1992-1993 - The east boundary, Township 20 South, Range 62 East, was dependently resurveyed by Cadastral Surveyor B.R. Clifford, under Group No. 716.

Before restoring the corners, the lines of the original surveys were retraced and a diligent search made for any evidence of the position of the original corners and other calls of the original field note record.

The rules of proportionate measurement were applied in order to ascertain the position of lost corners, after completing the necessary retracements to connect with identified corner locations. In order to simplify the record, the true line notes only are supplied herewith, which refer to the completed survey.

TOWNSHIP 20 SOUTH, RANGE 63 EAST, MOUNT DIABLO MERIDIAN, NEVADA

CHAINS

The survey was executed in accordance with the specifications set forth in the Manual of Surveying Instructions, 2009, and the Special Instructions for Group No. 1011, dated January 3, 2024.

Measurements were made with Trimble R-10 Global Navigation Satellite System (GNSS) receivers using the real-time kinematic (RTK) method and refer to the true meridian based on geodetic methods. The mean bearings of the lines and horizontal equivalents of ground distances only are entered in the field notes.

The NAD 83(2011)(EPOCH:2010.0000) geographic position of the following corners was determined from Global Positioning System (GPS) static observations processed by the National Geodetic Survey Online Positioning User Service (OPUS), utilizing Continuously Operating Reference Stations (CORS);

- DJ8975 NVTP TROPICANA CORS ARP,
 - DR8184 P006 LAKE MEAD NV2007 CORS GRP,
 - DJ3669 NVCA CARLTON SQUARE 2 CORS ARP,
 - DI1079 NVLM AMS WT FACILITY CORS ARP,
- and carried forward by RTK observations.

The standard corner of sections 31 and 32, on the south boundary of the township, is as follows:

Latitude: 36°09'33.351" N. Longitude: 114°58'23.441" W.

The corner of sections 25 and 36 only, on the east boundary of Township 20 South, Range 62 East, is as follows:

Latitude: 36°10'25.888" N. Longitude: 114°59'27.653" W.

DEPENDENT RESURVEY OF THE FIFTH STANDARD PARALLEL SOUTH,
THROUGH A PORTION OF RANGE 63 EAST,
MOUNT DIABLO MERIDIAN, NEVADA

Reestablishment of a Portion of the Survey Executed by U.S.
Deputy Surveyor W.H. Myrick in 1882 and a Portion of the
Dependent Resurvey Executed by U.S. Cadastral Engineers C.S.
Swanholm and A. Nelson, and U.S. Surveyor R.C. Yundt in 1931.

Beginning at the point for the standard cor. of T. 20 S., Rs. 62 and 63 E., determined by the method of irregular boundary adjustment; there is no remaining evidence of the original or resurvey corners.

Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 6 ins. below the surface of the ground, over a plastic-encased magnet, with brass cap mkd.

DEPENDENT RESURVEY OF THE FIFTH STANDARD PARALLEL SOUTH,
THROUGH A PORTION OF RANGE 63 EAST,
MOUNT DIABLO MERIDIAN, NEVADA

CHAINS

SC	
T20S	
R62E	R63E
S36	S31

2024

from which

A magnetic survey nail, 3/8 in. diam., 3 ins. long,
set flush with the westerly shoulder of concrete
drainage channel, for a reference monument, bears
N. 72°42'30" E., 200.0 lks. dist.

A magnetic survey nail, 3/8 in. diam., 3 ins. long,
set flush with the westerly shoulder of concrete
drainage channel, for a reference monument, bears
S. 46°54'20" E., 200.0 lks. dist.

From this corner, the closing cor. of T. 21 S., Rs. 62 and
63 E., bears S. 89°44'10" W., 14.481 chs. dist., monumented with
a stainless steel post, 2 1/2 ins. diam., firmly set, projecting
4 ins. above the ground, with a mound of stone, 4 1/2 ft. diam.,
3 ft. high, N. of the cor., with brass cap mkd.

T20S R62E	
S 36	

S 1	S 6
C	C
R62E	R63E
T21S	

1991

From this corner, the closing cor. of T. 21 S., Rs. 62 and
63 E., established in the 1943 dependent resurvey of the E. bdy
of T. 21 S., R 62 E, executed under Group No. 336, monumented
with an iron post, 3 ins. diam., firmly set, flush with the
surface of the ground, with brass cap mkd. as described in the
field notes of the 1991-1994 dependent resurvey of a portion of
the E. bdy., T. 21 S., R. 62 E., executed under Group No. 708,
bears N. 2°38'40" W., 8.4 lks. dist.

From this same corner, the original closing cor., remonumented
in the 1943 dependent resurvey of the E. bdy of T. 21 S.,
R. 62 E., executed under Group No. 336, monumented with an iron
post, 1 in. diam., firmly set, projecting 8 ins. above the
ground, bears N. 1°35'20" W., 33.4 lks. dist., with brass cap
mkd.

WP

1943

DEPENDENT RESURVEY OF THE FIFTH STANDARD PARALLEL SOUTH,
THROUGH A PORTION OF RANGE 63 EAST,
MOUNT DIABLO MERIDIAN, NEVADA

CHAINS	N. 89°58'50" E., on the S. bdy. of sec. 31.
2.1	Concrete lined drainage channel, drains SSW.
11	Begin steep ascent.
19.999	Point for the standard W 1/16 sec. cor. of sec. 31. Set a brass tablet, 3 1/4 ins. diam., 3 1/2-in. stem, cemented in a drill hole in limestone ledge, over a magnet, mkd. SC W 1/16 S31 2024
22.3	Rocky ridge, bears N. and S.; descend.
39.999	The standard 1/4 sec. cor. of sec. 31, monumented with an iron post, 1 in. diam., firmly set, projecting 4 ins. above a mound of stone, 7 ft. diam., 6 ft. high, with brass cap mkd. as described in the field notes of the 1931 dependent resurvey of the Fifth Standard Parallel South, through R. 63 E., executed under Group No. 169. N. 89°59'00" E., beginning new measurement.
11.8	Gulch, 10 lks. wide, drains SSE.
15.3	Spur, slopes SE.
22.379	The closing cor. of secs. 5 and 6, T. 21 S., R. 63 E., monumented with an iron post, 2 ins. diam., firmly set, projecting 8 ins. above the ground, with brass cap mkd. as described in the field notes of the 1943 dependent resurvey of the subdivision of T. 21 S., R. 63 E., executed under Group No. 336, with a mound of stone, 1 1/2 ft. diam., 1 ft. high, S. of the cor.
33.5	Draw, drains SE.
36.6	Kodachrome Road, 20 lks. wide, bears N. and S.
39.2	Top of low red hill.
40.028	The standard cor. of secs. 31 and 32, monumented with an iron post, 2 ins. diam., firmly set, projecting 7 ins. above the ground, in a collar of stone, with brass cap mkd. as described in the field notes of the 1931 dependent resurvey of the Fifth Standard Parallel South, through R. 63 E., executed under Group No. 169.

DEPENDENT RESURVEY OF THE FIFTH STANDARD PARALLEL SOUTH,
THROUGH A PORTION OF RANGE 63 EAST,
MOUNT DIABLO MERIDIAN, NEVADA

CHAINS	From this corner, the cor. of T. 20 S., Rs. 63 and 64 E., monumented with an iron post, 3 ins. diam., firmly set, projecting 4 ins. above the ground, with brass cap mkd. as described in the field notes of the 1931 dependent resurvey of the Fifth Standard Parallel South, through R. 63 E., executed under Group No. 169, bears N. 89°59'30" E., 400.113 chs. dist. From this corner, the cor. of Tps. 19 and 20 S., Rs. 63 and 64 E., monumented with an iron post, 3 ins. diam., firmly set, projecting 1 in. above the ground, with brass cap mkd. as described in the field notes of the 1930-1933 reestablishment of the corner of Tps. 19 and 20 S., Rs. 63 and 64 E., executed under Group No. 159, with an imbedded mound of stone, 5 ft. diam., S. of the cor., and a steel fence post set alongside, bears N. 0°02'30" W., 484.169 chs. dist. DEPENDENT RESURVEY OF A PORTION OF THE EAST BOUNDARY, T. 20 S., R. 62 E., MOUNT DIABLO MERIDIAN, NEVADA Reestablishment of a Portion of the Survey Executed by U.S. Deputy Surveyors R.H. Woods and W.H. Myrick in 1882 and a Portion of the Dependent Resurvey Executed by Cadastral Surveyor B.R. Clifford in 1992-1993. From the cor. of T. 20 S., Rs. 62 and 63 E., hereinbefore described. N. 0°09'30" E., on the E. bdy. of sec. 36. 40.012 Point for the 1/4 sec. cor. of sec. 31 only, T. 20 S., R. 63 E., hereinafter described. 40.343 The 1/4 sec. cor. of sec. 36 only, monumented with stainless steel post, 2 1/2 ins. diam., firmly set, flush with a mound of stone, 4 ft. diam., 1 1/2 ft. high, with brass cap mkd. as described in the field notes of the dependent resurvey of the E. bdy., T. 20 S., R. 62 E., executed under Group No. 716. N. 0°10'20" E., beginning new measurement. 19.675 Point for the N 1/16 sec. cor. of sec. 31 only, T. 20 S., R. 63 E., hereinafter described. 39.681 Point for the cor. of secs. 30 and 31 only, T. 20 S., R. 63 E., hereinafter described. 40.189 The cor. of secs. 25 and 36 only, monumented with a stainless steel post, 2 1/2 ins. diam., firmly set, flush with a mound of stone, 4 ft. diam., 1 1/2 ft. high, with brass cap mkd. as described in the field notes of the 1992-1993 dependent resurvey of the E. bdy., T. 20 S., R. 62 E., executed under Group No. 716.
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SURVEY OF A PORTION OF THE SUBDIVISIONAL LINES,
T. 20 S., R. 63 E., MOUNT DIABLO MERIDIAN, NEVADA

CHAINS	
	From the standard cor. of secs. 31 and 32, on the S. bdy. of the Tp.
	N. 0°05'40" W., bet. secs. 31 and 32; over broken land.
15.0	Kodachrome Road, 20 lks. wide, bears N. and S.
17.1	Kodachrome Road, 20 lks. wide, bears N. and S.
40.000	Point for the 1/4 sec. cor. of secs. 31 and 32.
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, over a plastic-encased magnet, in a collar of stone, with brass cap mkd.
	T20S R63E 1/4 S31 S32 2024
80.000	Point for the cor. of secs. 29, 30, 31, and 32.
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 26 ins. in the ground, over a plastic-encased magnet, in a collar of stone, with brass cap mkd.
	T20S R63E S30 S29 ----- S31 S32 2024
	WEST, bet. secs. 30 and 31; over broken and mountainous land.
40.000	Point for the 1/4 sec. cor. of secs. 30 and 31.
	Set a brass tablet, 3 1/4 ins. diam., 3 1/2-in. stem, cemented in a drill hole in limestone ledge, over a magnet, mkd.
	T20S R63E S30 1/4 ----- S31 2024
60.000	Point for the W 1/16 sec. cor. of secs. 30 and 31.
	POINT NOT MONUMENTED
79.648	Intersect the E. bdy. of sec. 36, T. 20 S., R. 62 E.
	Point for the cor. of secs. 30 and 31 only.

SURVEY OF A PORTION OF THE SUBDIVISIONAL LINES,
T. 20 S., R. 63 E., MOUNT DIABLO MERIDIAN, NEVADA

CHAINS

Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 14 ins. in the ground, to solid rock, over a plastic-encased magnet, in a supporting mound of stone, 4 ft. base, to top, with brass cap mkd.

T20S

R63E

S30

R62E

S31

2024

From this point, the cor. of secs. 25 and 36 only, T. 20 S., R. 62 E., bears N. 0°10'20" E., 0.508 chs. dist., hereinbefore described.

The point for the 1/4 sec. cor. of sec. 31 only, T. 20 S., R. 63 E., is on the E. bdy. of T. 20 S., R. 62 E., and at midpoint in latitude on the W. bdy. of sec. 31.

Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 22 ins. in the ground, over a plastic-encased magnet, in a collar of stone, with brass cap mkd.

T20S

R63E

1/4 S31

R62E

2024

From this point, the 1/4 sec. cor. of sec. 36 only, T. 20 S., R. 62 E., bears N. 0°09'30" E., 0.331 chs. dist., hereinbefore described.

From this same point, a rebar, 5/8 in. diam., firmly set, projecting 4 ins. above the ground, in a collar of stone, with iron cap mkd. 1/4 36 31 and a metal tag mkd. ARIZ PLS 4171, no record found, bears N. 83°27'00" W., 0.399 chs. dist.

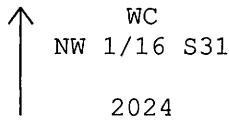
Point for the N 1/16 sec. cor. of sec. 31 only, T. 20 S., R. 63 E., is on the E. bdy. of T. 20 S., R. 62 E., and is at midpoint in latitude bet. the cor. of secs. 30 and 31 only and the 1/4 sec. cor. of sec. 31 only, T. 20 S., R. 63 E.

Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 10 ins. in the ground, to solid rock, over a plastic-encased magnet, in a supporting mound of stone, 5 ft. base, to top, with brass cap mkd.

SURVEY OF A PORTION OF THE SUBDIVISIONAL LINES,
T. 20 S., R. 63 E., MOUNT DIABLO MERIDIAN, NEVADA

CHAINS	N 1/16 S31 2024 From this point, the 1/4 sec. cor. of sec. 36 only, T. 20 S., R. 62 E., bears S. 0°10'20" W., 19.675 chs. dist., hereinbefore described. SUBDIVISION OF SECTION 31, T. 20 S., R. 63 E., MOUNT DIABLO MERIDIAN, NEVADA From the standard 1/4 sec. cor. of sec. 31, on the S. bdy. of the Tp. N. 0°04'50" W., on the N-S center line of sec. 31; across broken, mountainous land. 40.005 Point for the center 1/4 sec. cor. of sec. 31, at intersection with the E-W center line of sec. 31. Set a brass tablet, 3 1/4 ins. diam., 3 1/2-in. stem, cemented in a drill hole in limestone ledge, over a magnet, mkd. T20S R63E C 1/4 S31 2024 60.008 Point for the center N 1/16 sec. cor. of sec. 31. POINT NOT MONUMENTED 80.011 The 1/4 sec. cor. of secs. 30 and 31. From the 1/4 sec. cor. of secs. 31 and 32. S. 89°59'30" W., on the E-W center line of sec. 31. 40.014 The center 1/4 sec. cor. of sec. 31. 60.014 Point for the center W 1/16 sec. cor. of sec. 31. Set a magnetic survey nail, 3/8 in. diam., 3 ins. long, flush with surface of limestone boulder, with aluminum washer mkd. BLM CADASTRAL SURVEY 2024.
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SUBDIVISION OF SECTION 31,
T. 20 S., R. 63 E., MOUNT DIABLO MERIDIAN, NEVADA

CHAINS	from which A magnetic survey nail, 3/8 in. diam., 3 ins. long, set flush with surface of limestone boulder, for a reference monument, bears S. 85°00'10" E., 85.0 lks. dist., with aluminum washer mkd. BLM CADASTRAL SURVEY 56.1 FT. 2024. A magnetic survey nail, 3/8 in. diam., 3 ins. long, set flush with surface of limestone boulder, for a reference monument, bears N. 1°16'00" W., 25.0 lks. dist., with aluminum washer mkd. BLM CADASTRAL SURVEY 16.5 FT. 2024.
79.842	The 1/4 sec. cor. of sec. 31 only, on the W. bdy. of the Tp. From the standard W 1/16 sec. cor. of sec. 31, on the S. bdy. of the Tp. N. 0°05'00" W., on the N-S center line of the SW1/4 of sec. 31; across steep, W. facing slope.
40.008	The center W 1/16 sec. cor. of sec. 31. N. 0°05'00" W., on the N-S center line of the NW1/4; along steep, W. facing slope.
20.005	True point for the NW 1/16 sec. cor. of sec. 31, at intersection with the E-W center line of the NW1/4, falls on a precipitous scree slope where it is impracticable to establish a permanent monument. From this point, the point selected for the witness corner to the NW 1/16 sec. cor. of sec. 31, bears S. 0°09'00" W., 1.580 chs. dist. Set a brass tablet, 3 1/4 ins. diam., 3 1/2-in. stem, cemented in a drill hole in limestone ledge, over a magnet, mkd.  WC NW 1/16 S31 2024
40.010	The point for the W 1/16 sec. cor. of secs. 30 and 31. From the point for the center N 1/16 sec. cor. of sec. 31. S. 89°59'40" W., on the E-W center line of the NW1/4.
20.000	True point for the NW 1/16 sec. cor. of sec. 31.
39.738	The N 1/16 sec. cor. of sec. 31 only.

TOWNSHIP 20 SOUTH, RANGE 63 EAST, MOUNT DIABLO MERIDIAN, NEVADA

CHAINS	GENERAL DESCRIPTION The area surveyed lies approximately 2 miles east of Las Vegas, Nevada, within the Rainbow Gardens Area of Critical Environmental Concern (ACEC). Primary access to the east side of the surveyed area is provided by Lake Mead Boulevard or South Hollywood Boulevard. Secondary access is provided by Kodachrome Road, which provides access through the Rainbow Gardens ACEC. Primary access to the west side of the surveyed area is provided by Vegas Valley Drive. Secondary access is provided by access granted through the site of the Sunrise Landfill. No springs, flowing streams, or other water sources were observed during the course of the survey. The general drainage is to the south, towards Las Vegas Wash. Vegetation consists of bunch grass, creosote, and cacti. The average elevation is approximately 2,500 ft. above sea level. This area lies southeast of the geologic uplift that forms Frenchman (Sunrise) Mountain. This area provides a unique combination of limestone and sandstone, forming many ridges, valleys, and hoodoos with highly contrasting colors. There are no settlers living within the surveyed area.
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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

Shane K. McCracken

Forestry Technician

CERTIFICATE OF SURVEY

I, Lee T. Wilson, Cadastral Surveyor, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing the date of the 3rd day of January, 2024, I have dependently resurveyed the Fifth Standard Parallel South, through a portion of Range 63 East and a portion of the east boundary, Township 20 South, Range 62 East, surveyed a portion of the subdivisional lines, and subdivided section 31, Township 20 South, Range 63 East, of the Mount Diablo Meridian, in the State of Nevada, which are represented in the foregoing field notes as having been executed by me and under my direction; and that said survey has been made in strict conformity with said special instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in specific manner described in the foregoing field notes.

SEP 22 2025

(Date)

Lee T. Wilson

(Cadastral Surveyor)

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT
Reno, Nevada

The foregoing field notes of the dependent resurvey of the Fifth Standard Parallel South, through a portion of Range 63 East and a portion of the east boundary, Township 20 South, Range 62 East, the survey of a portion of the subdivisional lines, and the subdivision of section 31, Township 20 South, Range 63 East, of the Mount Diablo Meridian, Nevada, executed by Lee T. Wilson, Cadastral Surveyor, having been critically examined and found correct, are hereby approved.

SEP 22 2025

(Date)

Clarence D. Strickland

(Chief Cadastral Surveyor for Nevada)

~~CERTIFICATE OF TRANSCRIPT~~

~~I CERTIFY that the foregoing transcript of the field notes of the above described surveys in Township 20 South, Range 63 East, Mount Diablo Meridian, Nevada, is a true copy of the original field notes.~~

~~(Date)~~~~(Chief Cadastral Surveyor for Nevada)~~