

DEGREE QUADRANGLE 37°-38°, 118°-119°

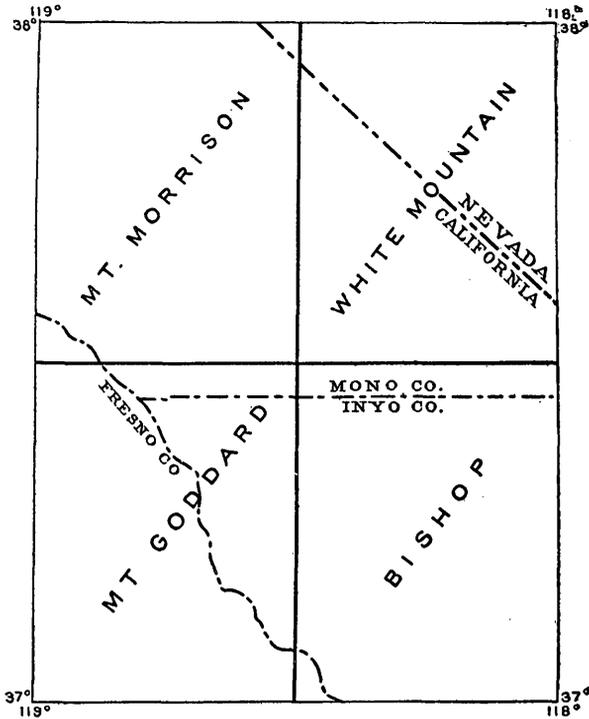


FIGURE 32.—Diagram of degree quadrangle 37°-38°, 118°-119°

BISHOP QUADRANGLE

[Latitude 37°-37° 30'; longitude 118°-118° 30']

FRESNO, INYO, AND MONO COUNTIES

Precise leveling by R. A. Farmer in 1905

North along Southern Pacific R. R. to Laws

	Feet
Aberdeen, 1 mile north of, at milepost 252; iron post stamped "3850" -----	3,848.038
Aberdeen, 4 miles north of, 60 feet south of milepost 249; iron post stamped "3850" -----	3,857.116
Alvord, 6.5 miles south of, at milepost 246; iron post stamped "3881" -----	3,879.081
Alvord, 3.5 miles south of, at milepost 243; iron post stamped "3897" -----	3,894.891
Alvord, in front of station; iron post stamped "3930" -----	3,927.847
Alvord, in front of station; top of rail -----	3,927.3
Alvord, 2.5 miles north of, 120 feet south of milepost 237, west of track; iron post stamped "3952" -----	3,949.816
Alvord, 5.5 miles north of, 100 feet north of milepost 234; iron post stamped "3981" -----	3,978.675

	Feet
Alvord, 8.5 miles north of, at milepost 231; iron post stamped "4007"-----	4, 005. 074
Alvord, 10.5 miles north of, 150 feet south of milepost 229; iron post stamped "4007"-----	4, 032. 645
Laws, 2.5 miles south of, 2 feet south of milepost 226; iron post stamped "4007"-----	4, 062. 390
Laws, in front of station; top of east rail-----	4, 110. 1
Laws, in front of station; iron post stamped "B 4116, 1905"-----	4, 111. 478
Laws, 2.5 miles north of, at milepost 221; iron post stamped "4142"---	4, 139. 395
Laws, 5.5 miles north of, milepost 218; iron post stamped "4210"---	4, 207. 606

From Alvord northeast along county roads to Gilbert ranch

Precise leveling by R. A. Farmer in 1905

Alvord, 2.9 miles northeast of, 10 feet north of road, top of rock 2.5 by 2.5 by 1.5 feet; aluminum tablet stamped "4502"-----	4, 500. 066
Alvord, 6.4 miles northeast of, 300 feet southeast of toll house, top of rock 3 by 3 by 2 feet, aluminum tablet stamped "5971"-----	5, 968. 980
Alvord, 10.7 miles northeast of, 20 feet south of road, on summit near cedar tree; iron post stamped "7276"-----	7, 273. 796
Payson cabin, 0.5 mile east of, 40 feet east of road; iron post stamped "6557"-----	6, 554. 343
Road to Payson's ranch, 10 feet south of road forks; iron post stamped "5519"-----	5, 516. 533
Payson's ranch, 5 miles east of, 20 feet north of road; iron post stamped "5109"-----	5, 106. 322
Gilbert ranch, 0.7 mile northwest of, 20 feet south of road; iron post stamped "5210"-----	5, 207. 065
Gilbert ranch, 1.5 miles northeast of, 30 feet north of road; iron post stamped "5314"-----	5, 311. 688

Primary leveling by L. F. Biggs in 1905

From point near Aberdeen north along road to Big Pine, thence east to Alvord

Big Pine, 12.3 miles south of, 1 mile north of Bower's house, 20 feet west of road, volcanic rock; aluminum tablet stamped "3870 B"---	3, 866. 493
Big Pine, 7.8 miles south of, under window in front of Fish Spring schoolhouse; iron post stamped "3936 B"-----	3, 932. 497
Big Pine, 6.3 miles south of, 100 feet west of south end of pond, volcanic rock; aluminum tablet stamped "3888 B"-----	3, 884. 490
Big Pine, 3.3 miles south of, 500 feet northwest of Rheinackle's house, 150 feet west of road, volcanic rock; bronze tablet stamped "3934 B"-----	3, 930. 588
Big Pine, 4 feet north of schoolhouse; iron post stamped "4003 B"---	3, 999. 908
Alvord, in front of station; iron post stamped "F 19"-----	3, 927. 847

From Big Pine north along road to Bishop, thence east to Laws

Big Pine, 2 miles north by 2 miles west of, west side of road at cliff of rocks, boulder; aluminum tablet stamped "3982 B"-----	3, 978. 436
Big Pine, 6.5 miles northwest of, near quarter corner east side of sec. 36, T. 8 S., R. 33 E., 60 feet west of road, in boulder; aluminum tablet stamped "4037 B"-----	4, 033. 667

	Feet
Valley School, 3.5 miles north of, common corner of secs. 32 and 33, T. 7 S., and secs. 4 and 5, T. 8 S., R. 34 E., 0.25 mile south of Butler School, 600 feet west of road; iron post stamped "4046"-----	4,042.794
Bishop, 2 miles south by 1 mile west of, 300 feet west of canal, at stone post; iron post stamped "4319 B"-----	4,316.299
Bishop, Fred. H. Bulpitt's store, under front window, in stone wall; aluminum tablet stamped "4148 B"-----	4,144.789
Laws, 100 feet east of station; iron post stamped "25 F"-----	4,111.478

From Laws west along highway toward Round Valley

Laws, 1.7 miles due west of, T road south, southwest corner, in base of fence post; spike, marked "U. S. 4131 B. M."-----	4,127.80
Bishop, 2.5 miles due north of, T road to south, southeast corner, in top of culvert; nail, marked "U. S. 4143 B. M."-----	4,140.34
T. 6 S., R. 32 E., near center of sec. 27, 5.7 miles west of Laws, west end of bend in road, 20 feet north of road; iron post stamped "B 4356, 1905 B 1"-----	4,352.832

Primary leveling by C. W. Wardle in 1912

Near Chalfant

Chalfant, 2 miles south of, 5.5 miles north of Laws, 35 feet west of track, 320 feet southwest of milepost 501; iron post stamped "4210" (recovered by U. S. C. & G. S. as L ₁₁)-----	4,207.606
Chalfant, 1.34 miles south of, at road crossing; top of rail-----	4,210.2
Chalfant, 1 mile south of, in base of milepost 500; railroad spike-----	4,214.93

Near Laws

Laws, about 2.5 miles north of, 4 telegraph poles south of milepole 504, 10 meters west of Southern Pacific R. R. tracks, nearly level with top of rail; iron post marked "U. S. G. S." (U. S. C. & G. S. b. m. M ₁₁)-----	4,139.395
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MOUNT GODDARD QUADRANGLE

[Latitude 37°-37° 30'; longitude 118° 30'-119°]

FRESNO, INYO, AND MONO COUNTIES

Primary leveling by L. F. Biggs in 1905

West and northwest of Laws

	Feet
Laws, 10.7 miles west of, 1,000 feet west of Fred Meger's house, west side of road, granite boulder; aluminum tablet stamped "B 4422 1905 B 2"-----	4,417.563
Laws, 14 miles northwest of, 2 miles south of Will Robert's ranch, 60 feet west of road, volcanic rock; aluminum tablet stamped "B 1905 B 3 4513"-----	4,507.796
Laws, 17 miles northwest of, 1 mile north of Will Robert's house, near Mono-Inyo county line, east side of road, volcanic rock; aluminum tablet stamped "B 1905 14 4698 B"-----	4,693.013

MOUNT MORRISON QUADRANGLE

[Latitude 37° 30'-38°; longitude 118° 30'-119°]

FRESNO AND MONO COUNTIES

Primary leveling by L. F. Biggs in 1905

From point 21 miles northwest of Laws northwest to Deadman Hill

	Feet
Laws, 21 miles northwest of, summit of Sherwin Hill, 60 feet west of road, volcanic boulder; aluminum tablet stamped "B 1905 B 6432"-----	6, 426. 111
Laws, 24.7 miles northwest of, south end of meadow, 15 feet east of road, 30 feet west of Rock Creek, granite boulder; aluminum tablet stamped "B 1905 6815 B 16"-----	6, 809. 585
Laws, 28.5 miles northwest of, 100 feet north of Crookes Creek, north side of road, 200 feet northeast of forks of road, in volcanic rock; aluminum tablet stamped "B 1905 B 7 6765"-----	6, 780. 785
Laws, 30 miles northwest of, 200 feet east of proposed dam site, north side of river, 20 feet from water, large boulder; aluminum tablet stamped "B 1905 B 8 6668"-----	6, 664. 173
Laws, 34 miles northwest of, 1 mile north of Eaton's house, north side of road, in boulder; aluminum tablet stamped "B 1905 9 6834"-----	6, 828. 971
Laws, 37.5 miles northwest of, sec. 13, T. 4 S., R. 24 E., 300 feet north of Summer's gate, 200 feet north of road, large boulder; aluminum tablet stamped "B 1905 10 7066"-----	7, 060. 138
Laws, 41.5 miles northwest of, 1 mile north of Summer's house, 300 feet south of Hot Creek, 100 feet south of road, at point of volcanic boulders; aluminum tablet stamped "B 1905 B 11 7196"---	7, 190. 726
Laws, 45 miles northwest of, 2 miles northwest of Casa Diablo, 60 feet west of road, boulder; aluminum tablet stamped "B 1905 12 7581"-----	7, 575. 282
Laws, 48.5 miles northwest of, 5.5 miles northwest of Casa Diablo, summit between Hot and Deadman creeks, 200 feet north of road, volcanic rock; aluminum tablet stamped "B 1905 13 7657"-----	7, 650. 716
Laws, 52 miles northwest of, 0.75 mile north of Deadman Creek, west side of road about halfway up Deadman Hill, large boulder; aluminum tablet stamped "B 1905 B 14 7723"-----	7, 727. 462

Primary leveling by C. R. Smith in 1898

From Rush Creek (Mono Lake) southeast to Mono Mills, thence southwest to Crater Ridge

Mono Mills road, about 3 miles southeast of where road leaves lake shore, 15 feet to right of road and about 200 feet east of foot of spur of Crater Ridge; iron post stamped "6899 O"-----	6, 903. 077
Mono Mills, in northwest corner post of sawmill; aluminum tablet stamped "7335 O"-----	7, 339. 409
Bodie-Benton wagon road, on summit between Mono Lake and Owens River drainage, 20 feet east of road; iron post stamped "7987 O"-----	7, 991. 309

WHITE MOUNTAIN QUADRANGLE

[Latitude 37° 30'-38°; longitude 118°-118° 30']

MONO COUNTY

Precise leveling by the U. S. Coast and Geodetic Survey in 1915

From California-Nevada State line south along the Southern Pacific R. R.
to Laws

	Feet
Queen, about 6.2 miles southwest of, 240 feet south of road crossing, 35 feet east of track, 9 feet east of milepole 473; iron post stamped "U. S. G. S. 5,556" (C. & G. S. b. m. Z ₁₀)-----	5,548.893
Benton station, 50 feet east of track, southeast corner of station foreman's yard; iron post stamped "U. S. G. S. 5405" (C. & G. S. b. m. A ₁₁)-----	5,393.244
Benton station, about 3 miles south of, 30 feet east of track, 5 feet east of milepole 479; iron post stamped "U. S. G. S. 5277" (C. & G. S. b. m. B ₁₁)-----	5,264.835
Benton station, about 6 miles south of, 55 feet east of track, in low spot behind first pole south of milepole 482; iron post stamped "U. S. G. S. 4996" (C. & G. S. b. m. C ₁₁)-----	4,984.012
Benton station, about 7 miles south of, near milepole 483, 10 feet east of track, opposite culvert sign 482 E, on granite rock; painted circle marked "4904" (U. S. G. S.) (C. & G. S. b. m. D ₁₁)-----	4,893.258
Benton station, about 8 miles south of, 20 feet west of track, 100 feet west of milepole 484, halfway between culvert signs 483 C and 484 A; chiseled granite rock, marked "4804" (C. & G. S. b. m. E ₁₁)-----	4,791.605
Benton station, about 9 miles south of, 40 feet east of the track, 6 feet from first pole north of milepost 485; iron post marked "4712" (U. S. G. S.) (C. & G. S. b. m. F ₁₁)-----	4,699.692
Hammil, 30 feet west of track, near southeast corner of section foreman's yard outside enclosure; iron post stamped "4598" (U. S. G. S.) (C. & G. S. b. m. G ₁₁)-----	4,586.297
Dehy, about one-third of a mile north of, 5 meters north of milepole 489, 10 meters east of Southern Pacific R. R. tracks, 20 meters northwest of corner of Jim Dehy's fence; red-metal disk in top of iron post (C. & G. S. b. m. H ₁₁)-----	4,546.287
Hammil, about 4 miles south of, 55 feet east of the track, 25 feet east of milepost 491; iron post stamped "4543 U. S. G. S." (C. & G. S. b. m. I ₁₁)-----	4,532.133
Shealy, about 4.06 miles south of, 0.35 mile south of milepost 495, 40 feet east of track; iron post stamped "4382" (U. S. G. S.) (C. & G. S. b. m. J ₁₁)-----	4,370.677
Chalfant, about 1.5 miles north of, 40 feet east of track, halfway between two telegraph poles; iron post stamped "4268 U. S. G. S." (C. & G. S. b. m. K ₁₁)-----	4,257.426
Chalfant, about 2 miles south of, 5.5 miles north of Laws, 35 feet west of track, 320 feet southwest of milepost 501; iron post stamped "4210 U. S. G. S." (C. & G. S. b. m. L ₁₁)-----	4,207.606

Primary leveling by C. W. Wardle in 1912 and D. H. Watson in 1913

From Chalfant north along Southern Pacific R. R. to Benton station (mean of 1912 and 1913 lines)

NOTE.—Many permanent bench marks along this line were recovered by the United States Coast and Geodetic Survey in 1915 and are described in the list immediately preceding this one.

	Feet
Chalfant, 200 feet north of station, 30 feet east of track, in base of milepost 499; railroad spike-----	4, 232. 80
Chalfant, 1.06 miles north of, at milepost 498-----	4, 250. 53
Chalfant, 2 miles north of, in base of milepost 497; railroad spike (top one)-----	4, 266. 14
Chalfant, 2.43 miles north of, at road crossing; top of rail-----	4, 289. 0
Shealy, 4.71 miles south of, in base of milepost 496; railroad spike (top one)-----	4, 314. 23
Shealy, 3.71 miles south of, in base of milepost 495; railroad spike--	4, 403. 56
Shealy, 2.71 miles south of, in base of milepost 494; railroad spike--	4, 488. 70
Shealy, 1.71 miles south of, in base of yellow pole, first one south of milepost 493; railroad spike-----	4, 535. 51
Shealy, 0.71 mile south of, in base of yellow pole, first one south of milepost 492; railroad spike-----	4, 543. 00
Shealy, 0.56 mile south of, at road crossing; top of rail-----	4, 542. 0
Shealy, at road crossing; top of rail-----	4, 539. 0
Hammil station, 3 miles south of, 50 feet east of track, in milepost 490; nail, marked "4547"-----	4, 534. 53
Hammil station, 3 miles south of, 50 feet east of track, in milepost 489; nail, marked "4559"-----	4, 546. 59
Hammil station, 1 mile south of, 50 feet east of track; at milepost 488, probably nail, marked "4567"-----	4, 554. 48
Hammil, 1 mile north of, in base of yellow pole, first one south of milepost 486; railroad spike-----	4, 624. 66
Hammil, 1.14 miles north of, at road crossing; top of rail-----	4, 629. 6
Benton station, 5.4 miles south of, at road crossing, near ranch house under bluff; top of rail-----	5, 045. 5
Benton station, 5 miles south of, in base of second pole south of milepost 481; railroad spike-----	5, 084. 2
Benton station, 3.3 miles south of, at road crossing; top of rail---	5, 242. 0
Benton station, 2 miles south of, in base of first telegraph pole north of milepost 478; copper nail stamped "5306"-----	5, 294. 08
Benton station, 1 mile south of, in base of yellow telegraph pole, first one south of milepost 477; railroad spike-----	5, 330. 28
From Benton station north along Southern Pacific R. R. to California-Nevada line	
Benton station, 1 mile north of, in milepost 475; railroad spike-----	5, 433. 68
Benton station, 2 miles north of, in milepost 474; railroad spike-----	5, 484. 43
Queen, 4.16 miles southwest of, in milepost 471; railroad spike-----	5, 734. 20
Queen, 2.35 miles southwest of, 0.35 mile southwest of Von Schmidt monument, 75 feet west of railroad, 5 feet west of rock cairn 59 on U. S. C. & G. S. State line; iron post stamped "5943 1913" [Recovered by U. S. C. & G. S. as S13]-----	5, 935. 684