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FIELD NOTES
OF THE
SURVEY OF THE CONSTRUCTED LINE
OF THE
PACIFIC ELECTRIC RAILWAY COMPANY'S RAILWAY LINE
FROM
RUBIO CANON TO ALPINE TAVERN
IN
LOS ANGELES COUNTY
STATE OF CALIFORNIA.

This is a copy made from
P E Ry Co's carbon of original
and has been compared by
Sewer Dept. of Co Sur. Office.
A. E. Timmons 10-31-34

NOTE:- FOR ACCOMPANYING MAP SEE C.S. B-890

FIELD NOTES OF THE SURVEY OF THE CONSTRUCTED LINE OF THE PACIFIC ELECTRIC RAILWAY COMPANY'S RAILWAY LINE FROM RUBIO CANON, AS OPERATED BY THE PASADENA AND MT. WILSON RAILWAY COMPANY ON FEB. 28th, 1899, AND AS NOW OPERATED BY THE PACIFIC ELECTRIC RAILWAY COMPANY, TO ALPINE TAVERN- ON SURVEYED LANDS.

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The courses given in these field notes are true.

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The following abbreviations have been used in these field notes:

Sta. Railway survey station.

B.C. Beginning of a curve.

E.C. End of a curve, which is also point of tangent.

P.C.C. Point of compound curve.

Rad. Radius of curve.

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"INITIAL POINT" Station 0+00, being at the beginning of the incline from which the corner of Sections 2, 3, 34 and 35, Townships 1 and 2 North, Range 12 West, San Bernardino Base and Meridian, bears N. 13° 18' 43" W., 798.56 feet distant.

"INITIAL POINT" Sta. 0+00 thence

N. 28° 00' W. 391.64 feet to a point on the East line of Section 3, Township 1 North, Range 12 West, San Bernardino Base and Meridian, distant 431.30 feet South along said East line from the corner of Sections 2, 3, 34 and 35, Townships 1 and 2 North, Range 12 West, San Bernardino Base and Meridian, Sta. 3+91.64

N. 28° 00' W. 491.50 feet to a point on the North line of Section 3, Township 1 North, Range 12 West, San Bernardino Base and Meridian, which bears N. 89° 20' 15" W. along said

North line, 230.76 feet from the corner of Sections 2,3, 34 and 35, Townships 1 and 2 North, Range 12 W., San Bernardino Base and Meridian, Sta. 8+83.14 = Sta. 8+60.69 change in numbering

N. 28° 00' W. 1460.17 feet to Sta. 23+20.86 = 0+00 change in numbering

N. 16° 56' 30" W. 158.44 feet to Sta. 1+58.44

N. 30° 38' 30" W. 542.87 feet to B.C. Sta. 7+01.31

Right on curve of 179.2 feet Rad., 99.40 feet to E.C. Sta. 8+00.71
Intersection angle 31° 47'
Semi-tangent 51.02 feet

N. 1° 08' 30" E. 51.87 feet to B.C. Sta. 8+ 52.58

Left on curve of 286.57 feet Rad., 60.02 feet to E.C. Sta. 9+12.60
Intersection angle 12° 00'
Semi-tangent 30.12 feet

N. 10° 51' 30" W. 211.48 feet to B.C. Sta. 11+24.08

Left on curve of 954.96 feet Radius 170.28 Feet to E.C. Sta. 12+94.36
Intersection angle 10° 13'
Semi-tangent 85.37 feet

N. 21° 04' 30" W. 83.43 feet to B.C. Sta. 13+77.79

Right on curve of 573.0 feet Rad., 151.34 feet to E.C. Sta. 15+29.13
Intersection angle 15°08'
Semi-tangent 76.12 feet

N. 5° 56' 30" W. 65.10 feet to B.C. Sta. 15+94.23

Left on curve of 954.96 feet Rad., 83.34 feet to E.C. Sta. 16+77.57
Intersection angle 5° 00'
Semi-tangent 41.69 feet

N. 10° 56' 30" W. 48.97 feet to B.C. Sta. 17+26.54

Right on curve of 301.64 feet Rad., 160.66 feet to E.C. Sta. 18+87.20
Intersection angle 30° 31'
Semi-tangent 82.27 feet

N. 19° 34' 30" E.	79.38 feet to	B.C. Sta. 19+66.58
Left on curve of 168.52 feet Rad.,	74.02 feet to	E.C. Sta. 20+40.60
	Intersection angle 25° 10'	
	Semi-tangent 37.66 feet	
N. 5° 35' 30" W.	46.91 feet to	B.C. Sta. 20+87.51
Right on curve of 110.42 feet Rad.,	86.72 feet to	E.C. Sta. 21+74.23
	Intersection angle 45° 00'	
	Semi-tangent 45.73 feet	
N. 39° 24' 30" E.	45.69 feet to	B.C. Sta. 22+19.92
Left on curve of 106.35 feet Rad.,	86.62 feet to	E.C. Sta. 23+06.54
	Intersection angle 46° 40'	
	Semi-tangent 45.90 feet	
N. 7° 15' 30" W.	65.22 feet to	B.C. Sta. 23+71.76
Left on curve of 124.77 feet Rad.,	59.81 feet to	E.C. Sta. 24+31.57
	Intersection angle 27° 28'	
	Semi-tagent 30.50 feet	
N. 34°43' 30" W.	204.14 feet to	B.C. Sta. 26+35.71
Left on curve of 89.82 feet Rad.,	69.50 feet to	E.C. Sta. 27+05.21
	Intersection angle 44° 20'	
	Semi-Tagent 36.58 feet	
N. 79° 03' 30" W.	26.24 feet to	B.C. Sta. 27+31.45
Right on curve of 89.82 feet Rad.,	57.22 feet to	E.C. Sta. 27+88.67
	Intersection angle 36° 30'	
	Semi-tangent 29.61 feet	
N. 42° 33' 30" W.	30.40 feet to	B.C. Sta. 28+19.07
Right on curve of 238.84 feet Rad.,	40.02 feet to	P.C.C. Sta. 28+59.09
	Intersection angle 9° 36'	
	Semi-tagent 20.05 feet	

Right on curve of 286.57 feet Rad., 90.03 feet to P.C.C. Sta.29+49.12

Intersection angle 18° 00'

Semi-tangent 45.39 feet

Right on curve of 179.2 feet Rad., 107.91 feet to E.C. Sta.30+57.03

Intersection angle 34° 30'

Semi-Tangent 55.64 feet

N. 19° 32' 30" E. 42.31 feet to B.C. Sta.30+99.34

Left on curve 84.57 feet Rad., 87.83 feet to E.C. Sta.31+87.17

Intersection angle 59° 30'

Semi-Tangent 48.33 feet

N. 39° 57' 30" W. 58.58 feet to B.C. Sta. 32+45.75

Right on curve of 168.62 feet Rad., 52.99 feet to E.C. Sta. 32+98.74

Intersection angle 18° 00'

Semi-tangent 26.72 feet

N. 21° 57' 30" W. 18.63 feet to B.C. Sta.33+17.37

Left on curve of 71.98 feet Rad., 151.47 feet to E.C. Sta.34+68.84

Intersection angle 120° 33'

Semi-tangent 126.10 feet

S. 37° 29' 30" W. 23.05 feet to B.C. Sta.34+91.89

Right on curve of 75.74 feet Rad., 98.04 feet to E.C. Sta.35+89.93

Intersection angle 74° 10'

Semi-tangent 57.24 feet

N. 68° 20' 30" W. 90.86 feet to B.C. Sta.36+80.79

Left on curve of 130.42 feet Rad., 56.91 feet to P.C.C. Sta.37+37.70

Intersection angle25° 00'

Semi-tangent 28.91 feet

Left on curve of 75.74 feet Rad., 76.41 feet to E.C. Sta.38+14.11

Intersection angle 57° 48'

Semi-tangent 41.80 feet

S. 28° 51' 30" W. 21.76 feet to B.C. Sta. 38+35.87

Right on curve of 102.57 feet Rad., 54.94 feet to E.C. Sta. 38+90.81

Intersection angle 30° 41' 30"

Semi-tangent 28.15 feet

S. 59° 33' W. 20.43 feet to B.C. Sta.39+11.24

Left on curve of 204.76 feet Rad., 113.88 feet to E.C. Sta.40+25.12

Intersection angle 31° 52'

Semi-tangent 58.45 feet

S. 27° 41' W. 26.32 feet to B.C. Sta. 40+51.44

Right on curve of 79.91 feet Rad., 69.90 feet to E.C. Sta.41+21.34

Intersection angle 50° 07'

Semi-tangent 37.36 feet

S. 77° 48' W. 35.48 feet to B.C. Sta. 41+56.82

Left on curve of 71.98 feet Rad., 60.72 feet to E.C. Sta. 42+17.54

Intersection angle 48° 20'

Semi-tangent 32.30 feet

S. 29° 28' W. 23.51 feet to B.C. Sta. 42+41.05

Right on curve of 95.77 feet Rad., 83.35 feet to E.C. Sta. 43+24.40

Intersection angle 49° 52'

Semi-tangent 44.52 feet

S. 79° 20' W. 26.82 feet to B.C. Sta. 43+51.22

Left on curve of 110.42 feet Rad., 42.91 feet to E.C. Sta. 43+94.1 3

Intersection angle 22° 16'

Semi-tangent 21.73 feet

S. 57° 04' W. 34.80 feet to B.C. Sta. 44+28.93

Right on curve of 71.98 feet Rad., 129.69 feet to P.C.C. Sta. 45+58.62

Intersection angle 103° 14'

Semi-tangent 90.88 feet

Right on curve of 95.77 feet Rad., 50.15 feet to P.C.C. Sta. 46+08.77

Intersection angle 30° 00'

Semi-tangent 25.66 feet

Right on curve of 71.98 feet Rad.,	82.39 feet to	E.C. Sta.46+91.16
	Intersection angle 65° 35'	
	Semi-tangent 46.38 feet	
N. 75° 53' E.	26.19 feet to	B.C. Sta.47+17.35
Left on curve of 102.57 feet Rad.,	110.99 feet to	E.C. Sta. 48+28.34
	Intersection angle 62° 00'	
	Semi-tangent 61.63 feet	
N. 13° 53' E.	215.65 feet to	B.C. Sta.50+43.99
Left on curve of 238.84 feet Rad.,	135.34 feet to	E.C. Sta. 51+79.33
	Intersection angle 32° 28'	
	Semi-tangent 69.53 feet	
N. 18° 35' W.	36.34 feet to	B.C. Sta. 52+15.67
Right on curve of 102.57 feet Rad.,	44.75 feet to	E.C. Sta. 52+60.42
	Intersection angle 25° 00'	
	Semi-tangent 22.75 feet	
N. 6° 25' E.	72.58 feet to	B.C. Sta. 53+33.00
Left on curve of 204.76 feet Rad.,	79.93 feet to	P.C.C.Sta.54+12.93
	Intersection angle 22° 22'	
	Semi-tangent 40.47 feet	
Left on curve of 71.98 feet Rad.,	88.11 feet to	E.C. Sta. 55+01.04
	Intersection angle 70° 08'	
	Semi-tangent 50.54 feet	
N. 86°05' W.	16.89 feet to	B.C. Sta. 55+17.93
Right on curve of 71.98 feet Rad.,	49.87 feet to	E.C. Sta. 55+67.80
	Intersection angle 39°42'	
	Semi-tangent 25.99 feet	
N. 46°23' W.	37.05 feet to	B.C. Sta. 56+04.85
Left on curve of 89.82 feet Rad.,	73.68 feet to	E.C. Sta. 56+78.53
	Intersection angle 47°00'	
	Semi-tangent 39.05 feet	

S. 86° 37' W.	28.23 feet to	B.C. Sta. 57+06.76
Right on curve of 573.0 feet Rad.,	46.67 feet to	E.C. Sta. 57+53.43
	Intersection angle 4° 40'	
	Semi-tangent 23.35 feet	
N. 88° 43' W.	40.39 feet to	B.C. Sta. 57+93.82
Right on curve of 95.77 feet Rad.,	50.59 feet to	E.C. Sta. 58+44.41
	Intersection angle 30° 16'	
	Semi-tangent 25.91 feet	
N. 58° 27' W.	75.60 feet to	B.C. Sta. 59+20.01
Right on curve of 75.74 feet Rad.,	90.29 feet to	E.C. Sta. 60+10.30
	Intersection angle 68°18'	
	Semi-tengent 51.37 feet	
N. 9° 51' E.	21.48 feet to	B.C. Sta. 60+31.78
Left on curve of 89.82 feet Rad.,	55.02 feet to	E.C. Sta. 60+86.80
	Intersection angle 35°06'	
	Semi-tengent 28.40 feet	
N. 25°15' W.	66.38 feet to	B.C. Sta. 61+53.18
Right on curve of	84.57 feet Rad.,112.20 feet to	E.C. Sta. 62+65.38
	Intersection angle 76° 01'	
	Semi-tengent 66.11 feet	
N. 50°46' E.	34.54 feet to	B.C. Sta. 62+99.92
Left on curve of 159.32 feet Rad.,	79.53 feet to a	
	point in the north line of	
	Section 34, Township 2 North,	
	Range 12 West, San Bernardino	
	Base and Meridian,distant West	
	351.8 feet from the North quarter	
	section corner of said Section 34,	Sta. 63+79.45
	Intersection angle 28°36'	
	Semi-tangent 40.61 feet	

Left on curve of 159.32 feet Rad.	44.26 feet to	E.C. Sta. 64+23.71
	Intersection angle 15°55'	
	Semi-tangent 22.27 feet	
N. 6°15' E.	42.27 feet to	B.C. Sta. 64+65.98
Right on curve of 130.42 feet Rad.,	75.12 feet to	P.C.C. Sta. 65+41.10
	Intersection angle 33°00'	
	Semi-tangent 38.63 feet	
Right on curve of 286.57 feet Rad.,	94.53 feet to	P.C.C. Sta. 66+35.63
	Intersection angle 18° 54'	
	Semi-tangent 47.70 feet	
Right on curve of 204.76 feet Rad.,	86.60 feet to	E.C. Sta. 67+22.23
	Intersection angle 24° 14'	
	Semi-tangent 43.95 feet	
N. 82° 23' E.	110.77 feet to	B.C. Sta. 68+33.00
Left on curve of 204.76 feet Rad.,	132.41 feet to	E.C. S ta. 69+65.41
	Intersection angle 37° 03'	
	Semi-tangent 68.61 feet	
N. 45° 20' E.	207.77 feet to	B.C. Sta. 71+73.18
Left on curve of 84.57 feet Rad.,	70.21 feet to	E.C. Sta. 72+43.39
	Intersection angle 47° 34'	
	Semi-tangent 37.28 feet	
N. 2° 14' W.	24.19 feet to	B.C. Sta. 72+67.58
Right on curve of 119.58 feet Rad.,	55.90 feet to	P.C.C.Sta. 73+23.48
	Intersection angle 26° 47'	
	Semi-tangent 28.47 feet	
Right on curve of 89.82 feet Rad.,	43.95 feet to	E.C. Sta. 73+67.43
	Intersection angle 28°02'	
	Semi-tangent 22.41 feet	
N. 52° 35' E.	39.53 feet to	B.C. Sta. 74+06.96
Left on curve of 89.82 feet Rad.,	37.00 feet oTo	E.C. Sta. 74+43.96
	Intersection angle 23°36'	
	Semi-tangent 18.76 feet	
N.28°59' E.	39.43 feet to	B.C. Sta. 74+83.39

Right on curve of 60.12 feet Rad.,	258.79 feet to	E.C. Sta. 77+42.18
	Intersection angle 246°38'	
N. 84°23' W.	23.83 feet to	B.C. Sta. 77+66.01
Left on curve of 75.74 feet Rad.,	149.51 feet to	E.C. Sta. 79+15.52
	Intersection angle 113° 06'	
	Semi-tangent 114.64 feet	
S. 17° 29' E.	17.18 feet to	B.C. Sta. 79+32.70
Right on curve of 102.57 feet Rad.,	85.60 feet to	E.C. Sta. 80+18.30
	Intersection angle 47° 49'	
	Semi-tangent 45.47 feet	
S. 30° 20' W.	103.17 feet to	B.C. Sta. 81+21.47
Right on curve of 286.57 feet Rad.,	37.51 feet to	E.C. Sta. 81+58.98
	Intersection angle 7° 30'	
	Semi-tangent 18.78 feet	
S. 37° 50' W.	110.99 feet to	B.C. Sta. 82+69.97
Right on curve of 286.57 feet Rad.	37.10 feet to	E.C. Sta. 83+07.07
	Intersection angle 7° 25'	
	Semi-tangent 18.58 feet	
S. 45° 15' W.	67.51 feet to	B.C. Sta. 83+74.58
Right on curve of 179.2 feet Rad.	39.72 feet to	E.C. Sta. 84+14.30
	Intersection angle 12° 42'	
	Semi-tangent 19.94 feet	
S.57° 57' W.	155.88 feet to	B.C. Sta. 85+70.18
Left on curve of 89.82 feet Rad.,	64.82 feet to a point in the North line of Section 34, Township 2 North, Range 12 West, San Bernardino Base and Meridian, distant West 121.41 feet from the North quarter section corner of said Section 34	Sta. 86+35.00

	Intersection angle 41° 21'	
	Semi-tangent 33.90 feet	
Left on curve of 89.82 feet Rad.,	26.37 feet to	P.C.C.Sta. 86+61.37
	Intersection angle 16° 49'	
	Semi-tangent 13.28 feet	
Left on curve of 358.17 feet Rad.,	95.75 feet to	E.C. Sta. 87+57.12
	Intersection angle 15°19'	
	Semi-tangent 48.17 feet	
S.15° 32' E.	61.31 feet to	B.C. Sta. 88+18.43
Left on curve of 119.58 feet Rad.,	161.75 feet to	E.C. Sta. 89+80.18
	Intersection angle 77° 30'	
	Semi-tangent 95.99 feet	
N. 86° 58' E.	31.71 feet to	B.C. Sta. 90+11.89
Right on curve of 143.42 feet Rad.,	77.14 feet to	E.C. Sta. 90+89.03
	Intersection angle 30° 49'	
	Semi-tangent 39.52 feet	
S. 62° 13' E.	104.87 feet to	B.C. Sta. 91+93.90
Right on curve of 89.82 feet Rad.,	76.34 feet to	E.C. Sta. 92+70.24
	Intersection angle 48° 42'	
	Semi-tangent 40.64 feet	
S. 13° 31' E.	36.27 feet to	B.C. Sta. 93+06.51
Left on curve of 60.12 feet Rad.,	258.77 feet to	E.C. Sta. 95+65.28
	Intersection angle 246° 37'	
N. 80° 08' W.	29.94 feet to	B.C. Sta. 95+95.22
Right on curve of 119.58 feet Rad.	45.39 feet to	E.C. Sta. 96+40.61
	Intersection angle 21°45'	
	Semi-tangent 22.98 feet	
N. 58° 23' W.	163.26 feet to	B.C. Sta. 98+03.87
Left on curve of 119.58 feet Rad.,	61.32 feet to	E.C. Sta. 98 +65.19
	Intersection angle 29° 23'	
	Semi-tangent 31.36 feet	

N. 87° 46' W.	45.32 feet to	B.C.Sta. 99+10.51
Right on curve of 68.59 feet Rad.,	105.35 feet to	P.C.C.Sta.100+15.86
	Intersection angle 88° 00'	
	Semi-tangent 66.25 feet	
Right on curve of 286.57 feet Rad.,	57.85 feet to	P.C.C.Sta.100+73.71
	Intersection angle 11° 34'	
	Semi-tangent 29.03 feet	
Right on curve of 119.58 feet Rad.	78.13 feet to	P.C.C.Sta. 101+51.84
	Intersection angle 37° 26'	
	Semi-tangent 40.52 feet	
Right on curve of 716.23 feet Rad.,	64.52 feet to a point	
	in the North line of Section 34,	
	Township 2 North, Range 12 West,	
	San Bernardino Base and Meridian,	
	distant East 53.11 feet from the	
	north quarter section corner of	
	said Section 34,	Sta. 102+16.36
	Intersection angle 5° 09' 40"	
	Semi-tangent 32.28 feet	
Right on curve of 716.23 feet Rad.,	81.74 feet to	E.C.Sta.102+98.10
	Intersection angle 6° 32' 20"	
	Semi-tangent 40.91 feet	
N. 60° 56' E.	89.22 feet to	B.C.Sta. 103+87.32
Left on curve of 238.84 feet Rad.	46.99 feet to	E.C.Sta. 104+33.31
	Intersection angle 11° 02'	
	Semi-tangent 23.07 feet	
N. 49° 54' E.	128.62 feet to	B.C. Sta. 105+61.93
Left on curve of 573.00 feet Rad.,	48.34 feet to	E.C.Sta. 106+10.27
	Intersection angle 4° 50'	
	Semi-tangent 24.19 feet	
N. 45° 04' E.	63.28 feet to	B.C. Sta. 106+73.55

Left on curve of 179.2 feet Rad.,	93.83 feet to	E.C.Sta. 107+67.38
	Intersection angle 30° 00'	
	Semi-tangent 48.02 feet	
N. 15° 04' E.	49.05 feet to	B.C.Sta. 108+16.43
Right on curve of 71.98 feet Rad.,	91.19 feet to	E.C.Sta. 109+07.62
	Intersection angle 72° 35'	
	Semi-tangent 52.87 feet	
N. 87° 39' E.	39.67 feet to	B.C. Sta. 109+47.29
Left on curve of 75.74 feet Rad.,	55.89 feet to	E.C. Sta. 110+03.18
	Intersection angle 42° 17'	
	Semi-tangent 29.27 feet	
N. 45° 22' E.	22.85 feet to	B.C. Sta. 110+26.08
Right on curve of 71.98 feet Rad.,	84.76 feet to	E.C. Sta. 111+10.79
	Intersection angle 67° 28'	
	Semi-tangent 48.08 feet	
S. 67° 10' E.	45.54 feet to	B.C. Sta. 111+56.33
Left on curve of 358.17 feet Rad.,	121.48 feet to	P.C.C. Sta. 112+77.81
	Intersection angle 19° 26'	
	Semi-tangent 61.34 feet	
Left on curve of 143.42 feet Rad.,	51.61 feet to	P.C.C. Sta. 113+29.42
	Intersection angle 20° 37'	
	Semi-tangent 26.08 feet	
Left on curve of 62.03 feet Rad.,	145.02 feet to	E.C. Sta. 114+74.44
	Intersection angle 133° 57'	
	Semi-tangent 145.96 feet	
N. 61° 10' W.	23.98 feet to	B.C. Sta. 114+98.42
Right on curve of 75.74 feet Rad.,	102.29 feet to	E.C. Sta. 116+00.71
	Intersection angle 77° 23'	
	Semi-tangent 60.66 feet	
N. 16° 13' E.	30.38 feet to	B.C. Sta. 116+31.09

Left on curve of 143.42 feet Rad.,	61.62 feet to	P.C.C.Sta.116+92.71
	Intersection angle 24° 37'	
	Semi-tangent 31.29	
Left on curve of 75.74 feet Rad.,	117.43 feet to	E.C. Sta. 118+10.14
	Intersection angle 88° 50'	
	Semi-tangent 74.21 feet	
S. 82° 46' W.	28.13 feet to	B.C. Sta.118+38.27
Right on curve of 75.74 feet Rad.,	65.19 feet to	E.C. Sta. 119+03.46
	Intersection angle 49° 19'	
	Semi-tangent 34.75 feet	
N. 47° 55' W.	133.66 feet to	B.C. Sta. 120+37.12
Right on curve of 89.82 feet Rad.,	85.44 feet to	P.C.C.Sta. 121+22.56
	Intersection angle 54° 30'	
	Semi-tangent 46.25 feet	
Right on curve of 573.00 feet Rad.,	147.18 feet to	E.C.Sta. 122+ 69.74
	Intersection angle 14° 43'	
	Semi-tangent 74.01 feet	
N. 21° 18' E.	91.81 feet to	B.C. Sta. 123+61.55
Left on curve of 573.00 feet Rad.,	31.00 feet to	E.C. Sta. 123+92.55
	Intersection angle 3° 06'	
	Semi-tangent 15.51 feet	
N. 18° 12' E.	112.20 feet to	B.C. Sta. 125+04.75
Left on curve of 286.57 feet Rad.,	58.69 feet to	P.C.C.Sta. 125+63.44
	Intersection angle 11° 44'	
	Semi-tangent 29.45 feet	
Left on curve of 71.98 feet Rad.,	106.70 feet to	E.C.Sta. 126+70.14
	Intersection angle 84° 56'	
	Semi-tangent 65.90 feet	
N. 78° 28' W.	36.46 feet to	B.C. Sta. 127+06.60
Right on curve of 102.57 feet Rad.,	31.75 feet to	P.C.C.Sta. 127+38.35
	Intersection angle 17° 44'	
	Semi-tangent 16.00 feet	

Right on curve of 286.57 feet Rad., 184.06 feet to		P.C.C.Sta.129+22.41
	Intersection angle 36° 48'	
	Semi-tangent 95.34 feet	
Right on curve of 358.17 feet Rad. 139.72 feet to		P.C.C.Sta.130+62.13
	Intersection angle 22° 21'	
	Semi-tangent 70.76 feet	
Right on curve of 716.23 feet Rad., 134.59 feet to		P.C.C.Sta. 131+96.72
	Intersection angle 10° 46'	
	Semi-tangent 67.49 feet	
Right on curve of 79.91 feet Rad., 90.89 feet to		E.C. Sta. 132+87.61
	Intersection angle 65° 10'	
	Semi-tangent 51.07 feet	
N. 74° 21' E.	155.66 feet to	B.C. Sta. 134+43.27
Right on curve of 119.58 feet Rad., 61.57 feet to		E.C. Sta. 135+04.84
	Intersection angle 29° 30'	
	Semi-tangent 31.49 feet	
S. 76° 09' E.	37.14 feet to	B.C.Sta. 135+41.98
Left on curve of 179.2 feet Rad., 43.16 feet to		E.C. Sta. 135+85.14
	Intersection angle 13° 48'	
	Semi-tangent 21.69 feet	
S. 89° 57' E.	40.31 feet to	B.C.Sta. 136+25.45
Right on curve of 238.84 feet Rad., 100.81 feet to		E.C.Sta. 137+26.26
	Intersection angle 24° 10'	
	Semi-tangent 51.12 feet	
S. 65°47' E.	25.33 feet to	B.C. Sta. 137+51.59
Left on curve of 89.82 feet Rad., 48.91 feet to		E.C.Sta. 138+00.50
	Intersection angle 31° 12'	
	Semi-tangent 25.07 feet	
N. 83° 01' E.	21.00 feet to	B.C. Sta. 138+21.50
Right on curve of 143.42 feet Rad., 37.13 feet to		P.C.C.Sta. 138+58.63
	Intersection angle 14° 50'	
	Semi-tangent 18.67 feet	

Right on curve of 286.57 feet Rad.,	90.03 feet to	E.C. Sta. 139+48.66
	Intersection angle 18° 00'	
	Semi-tangent 45.39 feet	
S. 64° 09' E.	33.46 feet to	B.C.Sta. 139+82.12
Left on curve of 179.2 feet Rad.,	18.35 feet to	E.C.Sta. 140+00.47
	Intersection angle 5° 52'	
	Semi-tangent 9.18 feet	
S. 70° 01' E.	44.09 feet to	B.C. Sta. 140+44.56
Right on curve of 102.57 feet Rad.,	54.59 feet to	E.C.Sta. 140+99.15
	Intersection angle 30° 30'	
	Semi-tangent 27.97 feet	
S. 39° 31' E.	31.05 feet to	B.C.Sta. 141+30.20
Left on curve of 102.57 feet Rad.,	38.70 feet to	E.C.Sta. 141+68.90
	Intersection angle 21° 37'	
	Semi-tangent 19.59 feet	
S. 61° 08' E.	28.38 feet to	B.C.Sta. 141+97.28
Right on curve of 143.42 feet Rad.,	46.81 feet to	E.C.Sta. 142+44.09
	Intersection angle 18° 42'	
	Semi-tangent 23.61 feet	
S. 42° 26' E.	59.78 feet to	B.C. Sta. 143+03.87
Left on curve of 238.84 feet Rad.,	25.22 feet to	E.C.Sta. 143+29.09
	Intersection angle 6° 03'	
	Semi-tangent 12.62 feet	
S. 48° 29' E.	25.09 feet to	B.C.Sta. 143+54.18
Right on curve of 286.57 feet Rad.,	68.86 feet to	E.C.Sta. 144+23.04
	Intersection angle 13° 46'	
	Semi-tangent 34.60 feet	
S. 34° 43' E.	47.59 feet to	B.C.Sta. 144+70.63
Right on curve of 102.57 feet Rad.,	41.17 feet to	E.C.Sta.145+11.80
	Intersection angle 23° 00'	
	Semi-tangent 20.87 feet	
S. 11° 43' E.	29.29 feet to	B.C. Sta. 145+41.09

Left on curve of 79.91 feet Rad.,	44.58 feet to	P.C.C.Sta.145+85.67
	Intersection angle 31° 58'	
	Semi-tangent 22.89 feet	
Left on curve of 110.42 feet Rad.,	85.97 feet to	P.C.C.Sta. 146+71.64
	Intersection angle 44° 37'	
	Semi-tangent 45.29 feet	
Left on curve of 477.52 feet Rad.,	71.95 feet to	E.C.Sta. 147+43.59
	Intersection angle 8° 38'	
	Semi-tangent 36.05 feet	
N. 83° 04' E.	23.98 feet to	B.C.Sta. 147+67.57
Left on curve of 358.17 feet Rad.,	77.62 feet to	E.C.Sta. 148+45.19
	Intersection angle 12° 25'	
	Semi-tangent 38.97 feet	
N. 70° 39' E.	138.45 feet to	B.C.Sta. 149+83.64
Right on curve of 119.58 feet Rad.,	53.29 feet to	P.C.C.Sta.150+36.93
	Intersection angle 25° 32'	
	Semi-tangent 27.10 feet	
Right on curve of 286.57 feet Rad.,	85.19 feet to	E.C.Sta. 151+22.12
	Intersection angle 17° 02'	
	Semi-tangent 42.91 feet	
S.66° 47' E.	39.20 feet to	B.C.Sta. 151+61.32
Left on curve of 110.42 feet Rad.,	53.96 feet to	E.C.Sta. 152+15.28
	Intersection angle 28° 00'	
	Semi-tangent 27.53 feet	
N. 85° 13' E.	81.67 feet to	B.C.Sta. 152+96.95
Right on curve of 238.84 feet Rad.,	18.13 feet to	E.C.Sta. 153+15.08
	Intersection angle 4° 21'	
	Semi-tangent 9.07 feet	
N. 89° 34' E.	55.54 feet to	B.C.Sta. 153+70.62
Right on curve of 75.74 feet Rad.,	46.93 feet to	E.C.Sta. 154+17.55
	Intersection angle 35° 30'	
	Semi-tangent 24.23 feet	

S. 54° 56' E.	36.20 feet to	B.C.Sta. 154+53.75
Left on curve of 143.42 feet Rad.,	20.03 feet to	E.C.Sta. 154+73.78
	Intersection angle 8° 00'	
	Semi-tangent 10.03 feet	
S.62° 56' E.	75.06 feet to	B.C.Sta. 155+48.84
Left on curve of 84.57 feet Rad.,	43.91 feet to	E.C.Sta. 155+92.75
	Intersection angle 29° 45'	
	Semi-tangent 22.47 feet	
N. 87° 19' E.	53.18 feet to	B.C. Sta. 156+45.93
Left on curve of 110.42 feet Rad.,	20.51 feet to a point in the east line of Section 27, Township 2 North, Range 12 West, San Bernardino Base and Meridian, distant North 1466.03 feet from the corner of Sections 26, 27, 34 and 35, Township 2 North, Range 12 West, San Bernardino Base and Meridian	Sta. 156+66.44
	Intersection angle 10° 38' 30"	
	Semi-tangent 10.28 feet	
Left on curve of 110.42 feet Rad.,	19.00 feet to	E.C.Sta. 156+85.44
	Intersection angle 9° 51' 30"	
	Semi-tangent 9.52 feet	
N. 66° 49' E.	22.76 feet to	B.C. Sta. 157+08.20
Right on curve of 84.57 feet Rad.,	84.72 feet to	E.C.Sta. 157+92.92
	Intersection angle 57° 24'	
	Semi-tangent 46.30 feet	
S. 55° 47' E.	23.00 feet to	B.C. Sta.158+15.92
Left on curve of 179.2 feet Rad.,	86.01 feet to	P.C.C.Sta.159+01.93
	Intersection angle 27° 30'	
	Semi-tangent 43.85 feet	

Left on curve of 89.82 feet Rad.,	42.09 feet to	E.C.Sta. 159+44.02
	Intersection angle 26° 51'	
	Semi-tangent 21.44 feet	
N. 69° 52' E.	22.58 feet to	B.C.Sta. 159+66.60
Right on curve of 71.98 feet Rad.,	60.94 feet to	E.C.Sta. 160+27.54
	Intersection angle 48° 30'	
	Semi-tangent 32.43 feet	
S. 61° 38' E.	44.97 feet to	B.C. Sta. 160+72.51
Left on curve of 102.57 feet Rad.,	32.22 feet to	E.C.Sta. 161+04.73
	Intersection angle 18° 00'	
	Semi-tangent 16.25 feet	
S. 79° 38' E.	41.52 feet to	B.C. Sta. 161+46.25
Right on curve of 204.76 feet Rad.,	64.92 feet to	E.C.Sta. 162+11.17
	Intersection angle 18° 10'	
	Semi-tangent 32.74 feet	
S. 61° 28' E.	79.87 feet to	B.C. Sta. 162+91.04
Left on curve of 179.2 feet Rad.,	9.38 feet to	E.C.Sta. 163+00.42
	Intersection angle 3° 00'	
	Semi-tangent 4.69 feet	
S. 64° 28' E.	63.60 feet to	B.C. Sta. 163+64.02
Right on curve of 89.82 feet Rad.,	55.65 feet to	E.C.Sta. 164+19.67
	Intersection angle 35° 30'	
	Semi-tangent 28.75 feet	
S. 28° 58' E.	37.04 feet to	B.C.Sta. 164+56.71
Left on curve of 119.58 feet Rad.,	48.00 feet to	E.C.Sta. 165+04.71
	Intersection angle 23° 00'	
	Semi-tangent 24.33 feet	
S. 51° 58' E.	84.07 feet to	B.C.Sta. 165+88.78
Left on curve of 130.42 feet Rad.,	48.94 feet to	E.C.Sta. 166+37.72
	Intersection angle 21° 30'	
	Semi-tangent 24.76 feet	

S. 73° 28' E.	19.97 feet to	B.C.Sta. 166+57.69
Right on curve of 119.58 feet Rad.,	42.26 feet to	E.C.Sta. 166+99.95
	Intersection angle 20° 15'	
	Semi-tangent 21.36 feet	
S. 53° 13' E.	20.31 feet to	B.C.Sta. 167+20.26
Left on curve of 110.42 feet Rad.,	94.43 feet to	E.C.Sta. 168+14.69
	Intersection angle 49° 00'	
	Semi-tangent 50.31 feet	
N. 77° 47' E.	34.76 feet to	B.C.Sta. 168+49.45
Right on curve of 75.74 feet Rad.,	84.01 feet to	E.C.Sta. 169+33.46
	Intersection angle 63°33'	
	Semi-tangent 46.89 feet	
S. 38° 40' E.	35.57 feet to	B.C. Sta. 169+69.03
Left on curve of 179.2 feet Rad.,	62.55 feet to	P.C.C.Sta. 170+31.58
	Intersection angle 20° 00'	
	Semi-tangent 31.60 feet	
Left on curve of 477.52 feet Rad.,	114.46 feet to	P.C.C.Sta. 171+46.04
	Intersection angle 13° 44'	
	Semi-tangent 57.5 feet	
Left on curve of 84.57 feet Rad.,	84.43 feet to	E.C.Sta.172+30.47
	Intersection angle 57° 12'	
	Semi-tangent 46.13 feet	
N. 50° 24' E.	31.49 feet to	B.C.Sta. 172+61.96
Right on curve of 65.51 feet Rad.,	123.10 feet to	E.C.Sta. 173+05.06
	Intersection angle 107° 40'	
	Semi-tangent 89.62 feet	
S. 21° 56' E.	62.20 feet to	B.C.Sta. 174+47.26
Left on curve of 119.58 feet Rad.,	42.99 feet to	P.C.C.Sta.174+90.25
	Intersection angle 20° 36'	
	Semi-tangent 21.73 feet	

Left on curve of 71.98 feet Rad.,	156.78 feet to	E.C.Sta. 176+47.03
	Intersection angle 124° 48'	
	Semi-tangent 137.69 feet	
N. 12° 40' E.	43.50 feet to	B.C.Sta. 176+90.53
Right on curve of 71.98 feet Rad.,	100.20 feet to	P.C.C.Sta.177+90.73
	Intersection angle 79° 45'	
	Semi-tangent 60.15 feet	
Right on curve of 286.57 feet Rad.,	99.70 feet to	E.C.Sta. 178+90.43
	Intersection angle 19° 56'	
	Semi-tangent 50.37' feet	
S. 67° 39' E.	38.47 feet to	B.C.Sta. 179+28.90
Left on curve of 89.82 feet Rad.,	56.44 feet to	P.C.C.Sta.179+85.44
	Intersection angle 36° 00'	
	Semi-tangent 29.18 feet	
Left on curve of 71.98 feet Rad.,	128.27 feet to	E.C.Sta. 181+13.61
	Intersection angle 102° 06'	
	Semi-tangent 89.07 feet	
N. 25° 45' W.	43.47 feet to	B.C. Sta. 181+57.08
Right on curve of 71.98 feet Rad.,	123.07 feet to	E.C.Sta. 182+80.15
	Intersection angle 97° 58'	
	Semi-tangent 32.76 feet	
N. 72° 13' E.	47.10 feet to	B.C.Sta. 183+27.25
Left on curve of 71.98 feet Rad.,	102.01 feet to	E.C. Sta. 184+29.26
	Intersection angle 81° 12'	
	Semi-tangent 61.71 feet	
N. 8° 59' W.	26.99 feet to	B.C.Sta. 184+56.25
Right on curve of 71.98 feet Rad.,	105.82 feet to	E.C.Sta. 185+62.07
	Intersection angle 84° 14'	
	Semi-tangent 65.08 feet	

N. 75° 15' E.	18.87 feet to	B.C.Sta.185+80.94
Left on curve of 119.58 feet Rad.,69.67 feet to		E.C.Sta.186+50.61
	Intersection angle 33° 23'	
	Semi-tangent 35.86 feet	
N. 41° 52' E.	29.93 feet to	B.C.Sta.186+80.54
Left on curve of 71.98 feet Rad., 112.40 feet to		E.C.Sta.187+92.94
	Intersection angle 89° 28'	
	Semi-tangent 71.33 feet	
N. 47° 36'W.	17.92 feet to	B.C. Sta.188+10.86
Right on curve of 60.12 feet Rad., 154.12 feet to		E.C.Sta. 189+64.98
	Intersection angle 146° 53'	
	Semi-tangent 202.21 feet	

"TERMINAL POINT" at end of constructed line,from which the South quarter section corner of Section 26, Township 2 North, Range 12 West, San Bernardino Base and Meridian, bears S.12° 43' 45" E. 1706.75 feet distant.

Original and Duplicate signed by

L. FRIEL