

DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING
SLOPE 1 TO 1. ROADWAY OF ANY WIDTH

| | 0 | .1 | .2 | .3 | .4 | .5 | .6 | .7 | .8 | 9 | |
|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|
| 0 | 0.00 | 0.10 | 0.20 | 0.30 | 0.40 | 0.50 | 0.60 | 0.70 | 0.80 | 0.90 | 0 |
| 1 | 1.00 | 1.10 | 1.20 | 1.30 | 1.40 | 1.50 | 1.60 | 1.70 | 1.80 | 1.90 | 1 |
| 2 | 2.00 | 2.10 | 2.20 | 2.30 | 2.40 | 2.50 | 2.60 | 2.70 | 2.80 | 2.90 | 2 |
| 3 | 3.00 | 3.10 | 3.20 | 3.30 | 3.40 | 3.50 | 3.60 | 3.70 | 3.80 | 3.90 | 3 |
| 4 | 4.00 | 4.10 | 4.20 | 4.30 | 4.40 | 4.50 | 4.60 | 4.70 | 4.80 | 4.90 | 4 |
| 5 | 5.00 | 5.10 | 5.20 | 5.30 | 5.40 | 5.50 | 5.60 | 5.70 | 5.80 | 5.90 | 5 |
| 6 | 6.00 | 6.10 | 6.20 | 6.30 | 6.40 | 6.50 | 6.60 | 6.70 | 6.80 | 6.90 | 6 |
| 7 | 7.00 | 7.10 | 7.20 | 7.30 | 7.40 | 7.50 | 7.60 | 7.70 | 7.80 | 7.90 | 7 |
| 8 | 8.00 | 8.10 | 8.20 | 8.30 | 8.40 | 8.50 | 8.60 | 8.70 | 8.80 | 8.90 | 8 |
| 9 | 9.00 | 9.10 | 9.20 | 9.30 | 9.40 | 9.50 | 9.60 | 9.70 | 9.80 | 9.90 | 9 |
| 10 | 10.00 | 10.10 | 10.20 | 10.30 | 10.40 | 10.50 | 10.60 | 10.70 | 10.80 | 10.90 | 10 |
| 11 | 11.00 | 11.10 | 11.20 | 11.30 | 11.40 | 11.50 | 11.60 | 11.70 | 11.80 | 11.90 | 11 |
| 12 | 12.00 | 12.10 | 12.20 | 12.30 | 12.40 | 12.50 | 12.60 | 12.70 | 12.80 | 12.90 | 12 |
| 13 | 13.00 | 13.10 | 13.20 | 13.30 | 13.40 | 13.50 | 13.60 | 13.70 | 13.80 | 13.90 | 13 |
| 14 | 14.00 | 14.10 | 14.20 | 14.30 | 14.40 | 14.50 | 14.60 | 14.70 | 14.80 | 14.90 | 14 |
| 15 | 15.00 | 15.10 | 15.20 | 15.30 | 15.40 | 15.50 | 15.60 | 15.70 | 15.80 | 15.90 | 15 |
| 16 | 16.00 | 16.10 | 16.20 | 16.30 | 16.40 | 16.50 | 16.60 | 16.70 | 16.80 | 16.90 | 16 |
| 17 | 17.00 | 17.10 | 17.20 | 17.30 | 17.40 | 17.50 | 17.60 | 17.70 | 17.80 | 17.90 | 17 |
| 18 | 18.00 | 18.10 | 18.20 | 18.30 | 18.40 | 18.50 | 18.60 | 18.70 | 18.80 | 18.90 | 18 |
| 19 | 19.00 | 19.10 | 19.20 | 19.30 | 19.40 | 19.50 | 19.60 | 19.70 | 19.80 | 19.90 | 19 |
| 20 | 20.00 | 20.10 | 20.20 | 20.30 | 20.40 | 20.50 | 20.60 | 20.70 | 20.80 | 20.90 | 20 |
| 21 | 21.00 | 21.10 | 21.20 | 21.30 | 21.40 | 21.50 | 21.60 | 21.70 | 21.80 | 21.90 | 21 |
| 22 | 22.00 | 22.10 | 22.20 | 22.30 | 22.40 | 22.50 | 22.60 | 22.70 | 22.80 | 22.90 | 22 |
| 23 | 23.00 | 23.10 | 23.20 | 23.30 | 23.40 | 23.50 | 23.60 | 23.70 | 23.80 | 23.90 | 23 |
| 24 | 24.00 | 24.10 | 24.20 | 24.30 | 24.40 | 24.50 | 24.60 | 24.70 | 24.80 | 24.90 | 24 |
| 25 | 25.00 | 25.10 | 25.20 | 25.30 | 25.40 | 25.50 | 25.60 | 25.70 | 25.80 | 25.90 | 25 |
| 26 | 26.00 | 26.10 | 26.20 | 26.30 | 26.40 | 26.50 | 26.60 | 26.70 | 26.80 | 26.90 | 26 |
| 27 | 27.00 | 27.10 | 27.20 | 27.30 | 27.40 | 27.50 | 27.60 | 27.70 | 27.80 | 27.90 | 27 |
| 28 | 28.00 | 28.10 | 28.20 | 28.30 | 28.40 | 28.50 | 28.60 | 28.70 | 28.80 | 28.90 | 28 |
| 29 | 29.00 | 29.10 | 29.20 | 29.30 | 29.40 | 29.50 | 29.60 | 29.70 | 29.80 | 29.90 | 29 |
| 30 | 30.00 | 30.10 | 30.20 | 30.30 | 30.40 | 30.50 | 30.60 | 30.70 | 30.80 | 30.90 | 30 |
| 31 | 31.00 | 31.10 | 31.20 | 31.30 | 31.40 | 31.50 | 31.60 | 31.70 | 31.80 | 31.90 | 31 |
| 32 | 32.00 | 32.10 | 32.20 | 32.30 | 32.40 | 32.50 | 32.60 | 32.70 | 32.80 | 32.90 | 32 |
| 33 | 33.00 | 33.10 | 33.20 | 33.30 | 33.40 | 33.50 | 33.60 | 33.70 | 33.80 | 33.90 | 33 |
| 34 | 34.00 | 34.10 | 34.20 | 34.30 | 34.40 | 34.50 | 34.60 | 34.70 | 34.80 | 34.90 | 34 |
| 35 | 35.00 | 35.10 | 35.20 | 35.30 | 35.40 | 35.50 | 35.60 | 35.70 | 35.80 | 35.90 | 35 |
| 36 | 36.00 | 36.10 | 36.20 | 36.30 | 36.40 | 36.50 | 36.60 | 36.70 | 36.80 | 36.90 | 36 |
| 37 | 37.00 | 37.10 | 37.20 | 37.30 | 37.40 | 37.50 | 37.60 | 37.70 | 37.80 | 37.90 | 37 |
| 38 | 38.00 | 38.10 | 38.20 | 38.30 | 38.40 | 38.50 | 38.60 | 38.70 | 38.80 | 38.90 | 38 |
| 39 | 39.00 | 39.10 | 39.20 | 39.30 | 39.40 | 39.50 | 39.60 | 39.70 | 39.80 | 39.90 | 39 |
| 40 | 40.00 | 40.10 | 40.20 | 40.30 | 40.40 | 40.50 | 40.60 | 40.70 | 40.80 | 40.90 | 40 |
| 41 | 41.00 | 41.10 | 41.20 | 41.30 | 41.40 | 41.50 | 41.60 | 41.70 | 41.80 | 41.90 | 41 |
| 42 | 42.00 | 42.10 | 42.20 | 42.30 | 42.40 | 42.50 | 42.60 | 42.70 | 42.80 | 42.90 | 42 |
| 43 | 43.00 | 43.10 | 43.20 | 43.30 | 43.40 | 43.50 | 43.60 | 43.70 | 43.80 | 43.90 | 43 |
| 44 | 44.00 | 44.10 | 44.20 | 44.30 | 44.40 | 44.50 | 44.60 | 44.70 | 44.80 | 44.90 | 44 |
| 45 | 45.00 | 45.10 | 45.20 | 45.30 | 45.40 | 45.50 | 45.60 | 45.70 | 45.80 | 45.90 | 45 |
| 46 | 46.00 | 46.10 | 46.20 | 46.30 | 46.40 | 46.50 | 46.60 | 46.70 | 46.80 | 46.90 | 46 |
| 47 | 47.00 | 47.10 | 47.20 | 47.30 | 47.40 | 47.50 | 47.60 | 47.70 | 47.80 | 47.90 | 47 |
| 48 | 48.00 | 48.10 | 48.20 | 48.30 | 48.40 | 48.50 | 48.60 | 48.70 | 48.80 | 48.90 | 48 |
| 49 | 49.00 | 49.10 | 49.20 | 49.30 | 49.40 | 49.50 | 49.60 | 49.70 | 49.80 | 49.90 | 49 |
| 50 | 50.00 | 50.10 | 50.20 | 50.30 | 50.40 | 50.50 | 50.60 | 50.70 | 50.80 | 50.90 | 50 |

Distance of slope stake from side or shoulder stake for any width roadway, slope 1 to 1. If ground is nearly level, the cut or fill at side stake is located by the double entry method in left column and top row. The number in body of table in same row and column gives distance from side stake to slope stake. If ground is not level estimate the difference in elevation between the side stake and slope stake, lower target by this amount if cut, elevate if fill. Add this amount to cut or fill and find distance in table. Set up rod at this point, and line of sight should cut target. If it does not make the slight adjustment necessary.

TABLE XIII—CORRECTIONS FOR TANGENTS AND EXTERNALS

These corrections are to be added to the approximate values, found by dividing the tangent, or external, for a 1° curve (Table VIII) by the degree of curve, in order to obtain the true tangents, or externals. Intermediate values may be obtained by interpolation.

FOR TANGENTS ADD

| Central Angle | DEGREE OF CURVE | | | | | | | | | | | | | |
|---------------|-----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° | 55° | 60° | 65° | 70° |
| 10° | .03 | .06 | .09 | .13 | .16 | .19 | .22 | .25 | .28 | .31 | .34 | .38 | .42 | .46 |
| 15° | .04 | .10 | .14 | .19 | .24 | .29 | .34 | .39 | .45 | .51 | .53 | .58 | .63 | .68 |
| 20° | .06 | .13 | .19 | .26 | .32 | .39 | .45 | .51 | .58 | .65 | .72 | .79 | .84 | .90 |
| 25° | .08 | .16 | .24 | .33 | .40 | .49 | .58 | .67 | .75 | .83 | .90 | .99 | 1.06 | 1.14 |
| 30° | .10 | .19 | .29 | .39 | .49 | .59 | .69 | .79 | .89 | .99 | 1.09 | 1.20 | 1.29 | 1.39 |
| 35° | .11 | .22 | .34 | .47 | .58 | .69 | .79 | .81 | .92 | 1.04 | 1.29 | 1.42 | 1.54 | 1.66 |
| 40° | .13 | .26 | .40 | .53 | .67 | .80 | .93 | 1.06 | 1.20 | 1.34 | 1.49 | 1.64 | 1.79 | 1.94 |
| 45° | .15 | .30 | .44 | .60 | .76 | .91 | 1.06 | 1.21 | 1.37 | 1.52 | 1.70 | 1.87 | 2.04 | 2.21 |
| 50° | .17 | .34 | .51 | .68 | .85 | 1.02 | 1.19 | 1.36 | 1.54 | 1.72 | 1.91 | 2.10 | 2.29 | 2.48 |
| 55° | .19 | .38 | .57 | .76 | .95 | 1.14 | 1.32 | 1.52 | 1.72 | 1.92 | 2.14 | 2.35 | 2.56 | 2.77 |
| 60° | .21 | .42 | .63 | .84 | 1.05 | 1.27 | 1.49 | 1.71 | 1.94 | 2.17 | 2.38 | 2.60 | 2.83 | 3.07 |
| 65° | .23 | .46 | .69 | .93 | 1.16 | 1.40 | 1.64 | 1.88 | 2.13 | 2.38 | 2.63 | 2.88 | 3.13 | 3.39 |
| 70° | .25 | .51 | .76 | 1.02 | 1.28 | 1.54 | 1.80 | 2.06 | 2.33 | 2.60 | 2.88 | 3.16 | 3.44 | 3.72 |
| 75° | .27 | .56 | .83 | 1.12 | 1.40 | 1.69 | 1.98 | 2.27 | 2.57 | 2.87 | 3.16 | 3.47 | 3.78 | 4.09 |
| 80° | .30 | .61 | .91 | 1.22 | 1.53 | 1.84 | 2.15 | 2.46 | 2.78 | 3.10 | 3.44 | 3.78 | 4.12 | 4.46 |
| 85° | .33 | .66 | 1.00 | 1.33 | 1.68 | 2.02 | 2.36 | 2.70 | 3.05 | 3.40 | 3.77 | 4.14 | 4.55 | 4.89 |
| 90° | .36 | .72 | 1.09 | 1.45 | 1.83 | 2.20 | 2.57 | 2.94 | 3.32 | 3.70 | 4.10 | 4.50 | 4.91 | 5.32 |
| 95° | .39 | .79 | 1.19 | 1.55 | 2.00 | 2.40 | 2.80 | 3.20 | 3.61 | 4.02 | 4.40 | 4.98 | 5.38 | 5.83 |
| 100° | .43 | .86 | 1.30 | 1.74 | 2.18 | 2.62 | 3.06 | 3.50 | 3.95 | 4.40 | 4.88 | 5.37 | 5.85 | 6.34 |
| 110° | .51 | 1.03 | 1.56 | 2.08 | 2.61 | 3.14 | 3.67 | 4.21 | 4.76 | 5.31 | 5.86 | 6.43 | 7.01 | 7.60 |
| 120° | .62 | 1.25 | 1.93 | 2.52 | 3.16 | 3.81 | 4.45 | 5.11 | 5.77 | 6.44 | 7.12 | 7.80 | 8.50 | 9.22 |

FOR EXTERNALS ADD

| Central Angle | DEGREE OF CURVE | | | | | | | | | | | | | |
|---------------|-----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° | 55° | 60° | 65° | 70° |
| 10° | .001 | .003 | .004 | .006 | .007 | .008 | .009 | .011 | .012 | .014 | .015 | .017 | .018 | .020 |
| 15° | .003 | .007 | .010 | .014 | .018 | .023 | .027 | .029 | .032 | .035 | .039 | .043 | .047 | .051 |
| 20° | .006 | .011 | .017 | .022 | .028 | .034 | .038 | .045 | .051 | .057 | .063 | .070 | .076 | .083 |
| 25° | .009 | .018 | .027 | .036 | .046 | .056 | .065 | .074 | .083 | .093 | .106 | 120 | 127 | 135 |
| 30° | .013 | .025 | .038 | .051 | .065 | .078 | .090 | .103 | .116 | .129 | .149 | .170 | .179 | .188 |
| 35° | .018 | .035 | .054 | .072 | .086 | .109 | .131 | .153 | .175 | .197 | .213 | .230 | .247 | .264 |
| 40° | .023 | .046 | .070 | .093 | .117 | .141 | .172 | .203 | .234 | .265 | .277 | .290 | .315 | .341 |
| 45° | .030 | .060 | .093 | .119 | .153 | .184 | .216 | .254 | .289 | .325 | .351 | .378 | .411 | .445 |
| 50° | .037 | .075 | .116 | .151 | .189 | .227 | .266 | .305 | .345 | .384 | .425 | .467 | .508 | .550 |
| 55° | .046 | .093 | .142 | .188 | .236 | .283 | .332 | .381 | .420 | .479 | .530 | .582 | .641 | .700 |
| 60° | .056 | .112 | .168 | .225 | .283 | .340 | .398 | .457 | .516 | .575 | .636 | .697 | .774 | .851 |
| 65° | .067 | .135 | .204 | .273 | .343 | .412 | .483 | .554 | .625 | .697 | .771 | .845 | .922 | 1.01 |
| 70° | .080 | .159 | .240 | .321 | .403 | .485 | .568 | .652 | .735 | .819 | .906 | .994 | 1.08 | 1.17 |
| 75° | .095 | .182 | .286 | .383 | .480 | .578 | .678 | .777 | .877 | .977 | 1.07 | 1.18 | 1.29 | 1.39 |
| 80° | .110 | .220 | .332 | .445 | .558 | .671 | .787 | .903 | 1.02 | 1.13 | 1.25 | 1.38 | 1.50 | 1.62 |
| 85° | .128 | .259 | .391 | .524 | .657 | .790 | .926 | 1.06 | 1.20 | 1.34 | 1.47 | 1.62 | 1.76 | 1.91 |
| 90° | .149 | .299 | .450 | .603 | .756 | .910 | 1.07 | 1.22 | 1.38 | 1.54 | 1.70 | 1.87 | 2.03 | 2.20 |
| 95° | .174 | .350 | .522 | .706 | .885 | 1.06 | 1.25 | 1.43 | 1.62 | 1.80 | 1.99 | 2.18 | 2.38 | 2.58 |
| 100° | .200 | .401 | .604 | .809 | 1.01 | 1.22 | 1.43 | 1.64 | 1.85 | 2.06 | 2.28 | 2.50 | 2.73 | 2.96 |
| 110° | .268 | .536 | .806 | 1.08 | 1.35 | 1.63 | 1.91 | 2.20 | 2.48 | 2.76 | 3.05 | 3.35 | 3.66 | 3.96 |
| 120° | .360 | .721 | 1.08 | 1.45 | 1.82 | 2.19 | 2.57 | 2.95 | 3.33 | 3.72 | 4.11 | 4.50 | 4.91 | 5.32 |

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| | |
|--|-------|
| Tie Points Convain Drain | 2-8 |
| " " Calif. St Nutmeg to Vine | 2-8 |
| Drain Thru Convain ^{Lindberg Field} to Pac. Hwy | 39-54 |
| " Calif + Sutherland | 55- |

Ties. California St
at Nutmeg

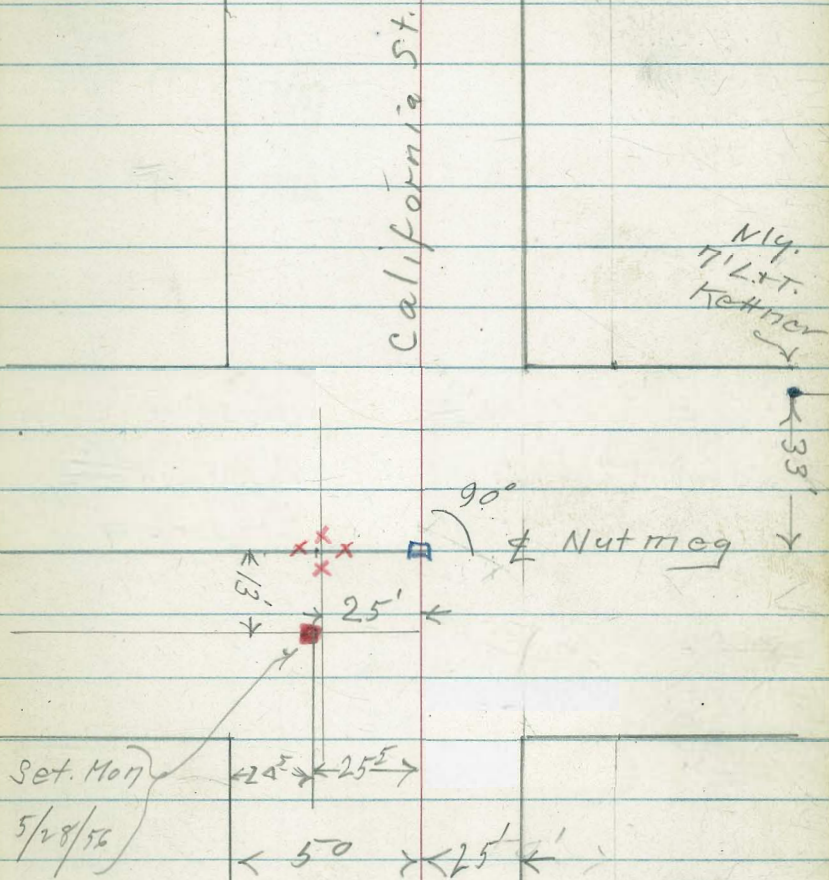
INDEXED
JER
APR 19 1954

2

- | | | |
|---------|---|------------------------|
| 4-14-54 | ● | denotes Ed disk or |
| C.H.Si | ■ | denotes Fed. Conc. Men |
| Begg | □ | " " 1/2 |
| Schelin | □ | " " 1/2 |
| Pullen | ● | " Nail |
| | ■ | " Set Conc. Men |
| xx | □ | " " 1/2 |
| xx | ● | " Disk |
| | ● | " P.K. Nail |
| | X | " cut cross |
- denotes cut
a cross as in
M.H. Rim.

Cut 4 crosses on M.H. Rim

Also see F.B. 2322



Ties Olive + California

4-14-54

C.H.S.

Bo99

Schelin

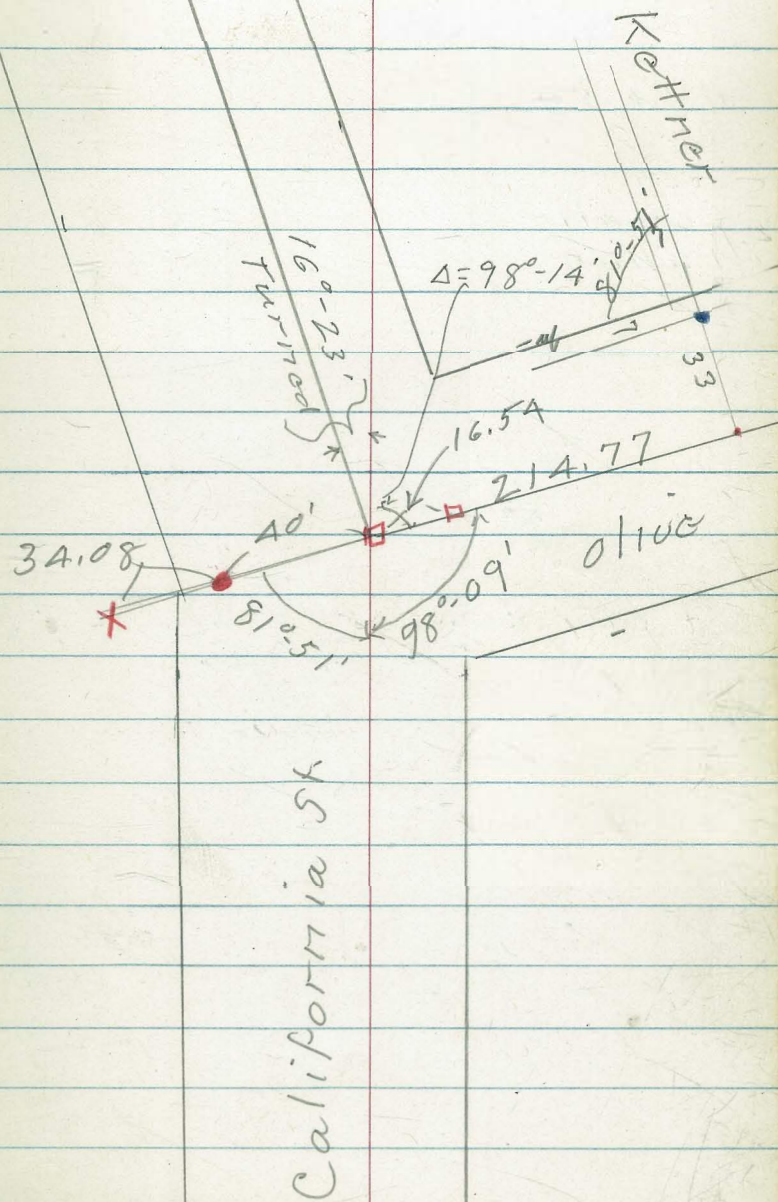
pullen

INDEXED
SER
APR 19 1954

Y & Tack set on P.I.

40' R.P. to P.I. = City disk in Pavc.

74.08 R.P. to P.I. = Cross on }
wall of Bldg. }
6' above pavc. }



Ties - Palm + California

4-14-54

C.H.S.

Boyg

Schelin

Pullen

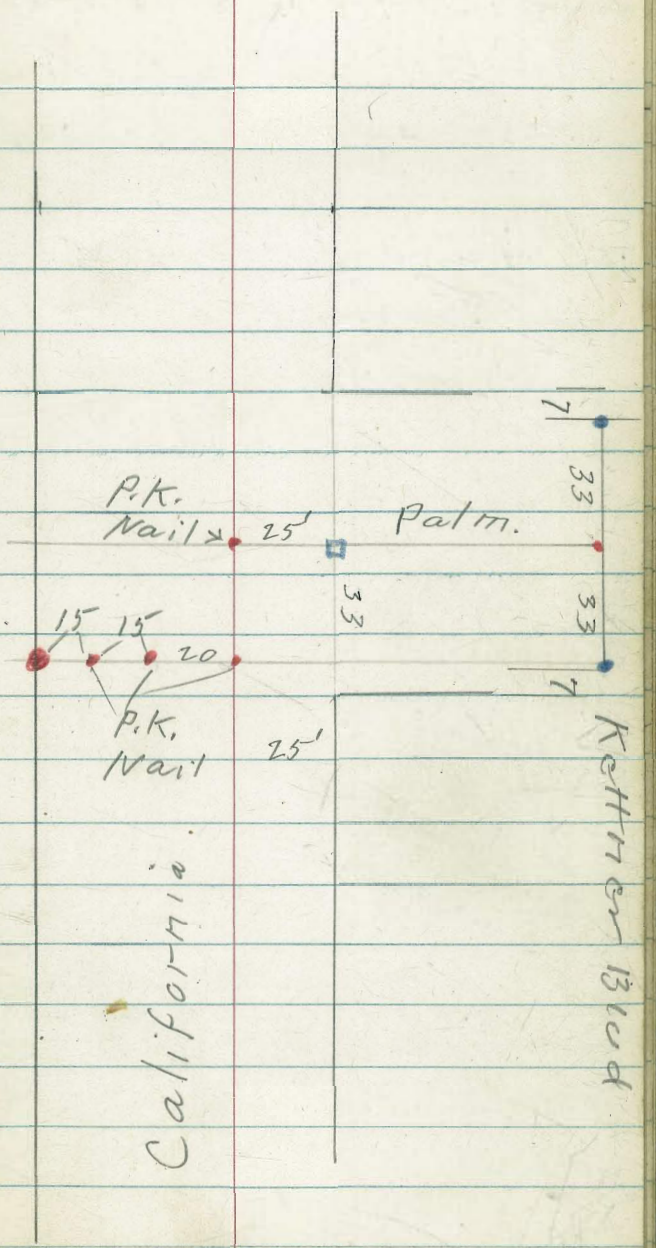
F.B. 571

586

2121

INDEXED
HER
APR 19 1954

Set city disk - wly line Calif.
+ sly. 7' line Palm.



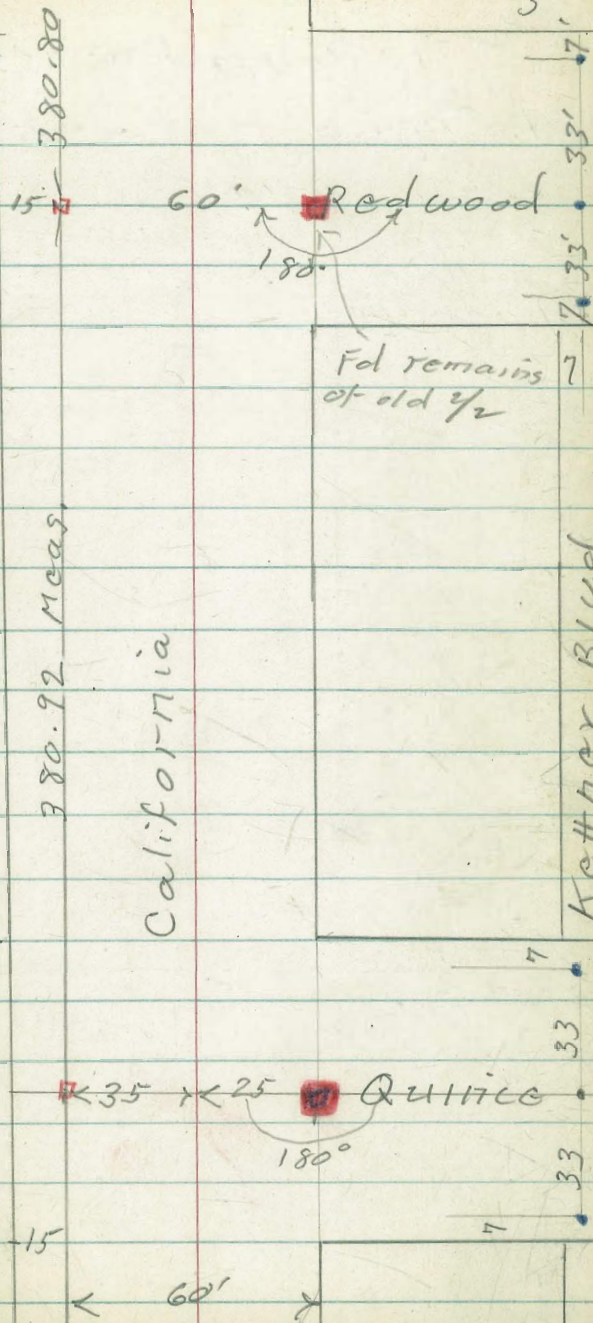
Tie Points California St
at Quince & Redwood
C.H.S. - 4-14-54

distance from Quince
to Sassafras chained
& apportioned as per
Tie sheet distance.

By Allen
R Sisson
C Powell.

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same with Conc. Mony
Fd. old $\frac{1}{2}$ + disk - replaced
of Quince + Ely line California

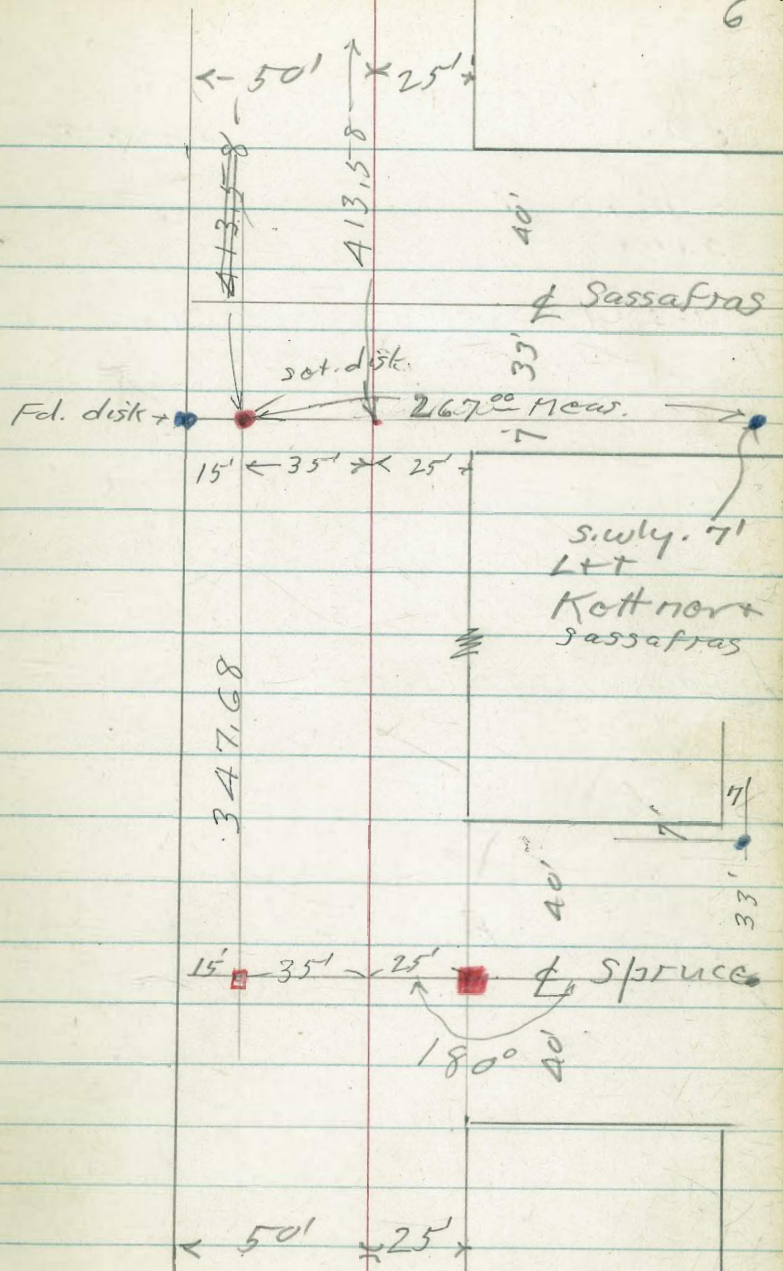


Tie Points California st.
at Spruce + at Sassafras

C.H.S. A-1A-54

Begg

Pullen
Schelin



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California St. Ties

at Thorn + at Upas.

C.H.S.

4-14-54

Begg

Scholin

pullen

cut & cross on flange of rail.

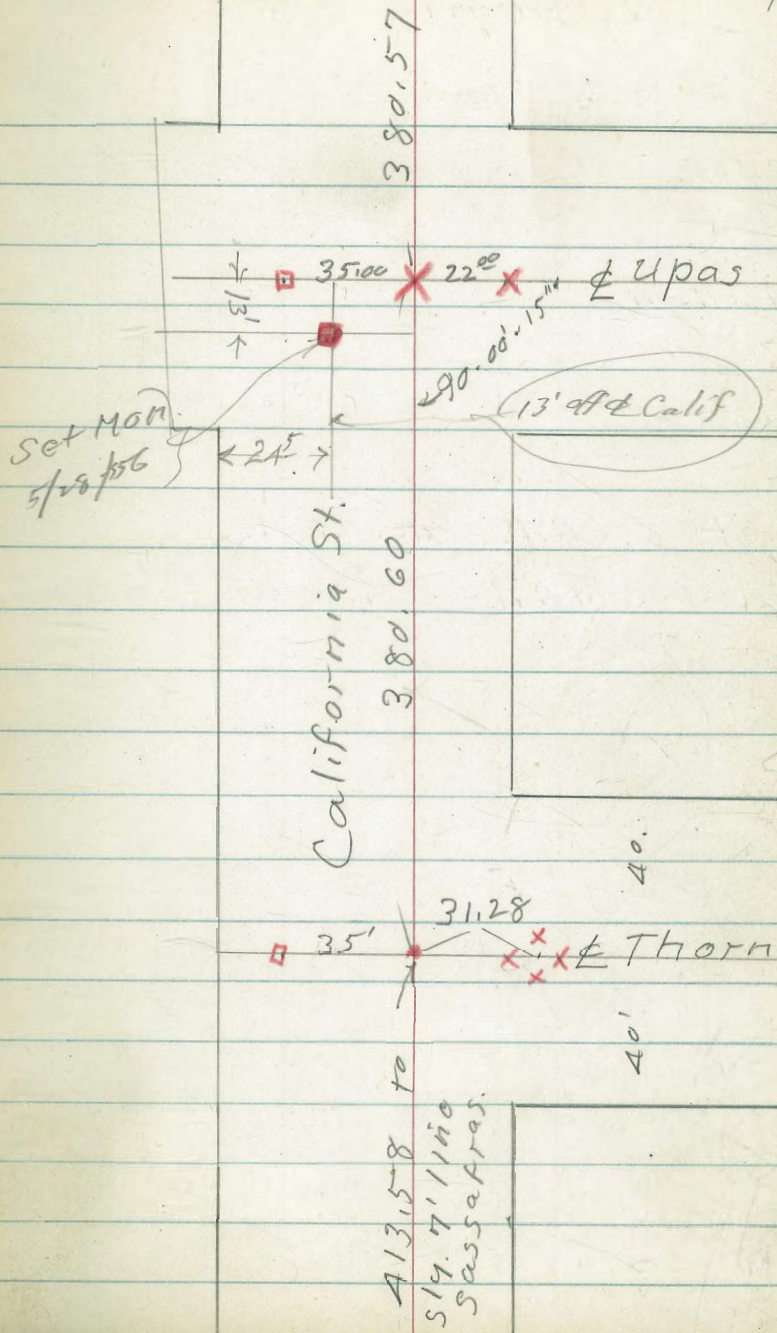
11 22' R.P. cross on top of
conc. Vault.

Sassafra to Vine was
apportioned as per
tie sheet distances.

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cut 4 crosses in M.H. Rim.



California St. Ties.
at Vine. St.

C.H.S.

A-1454

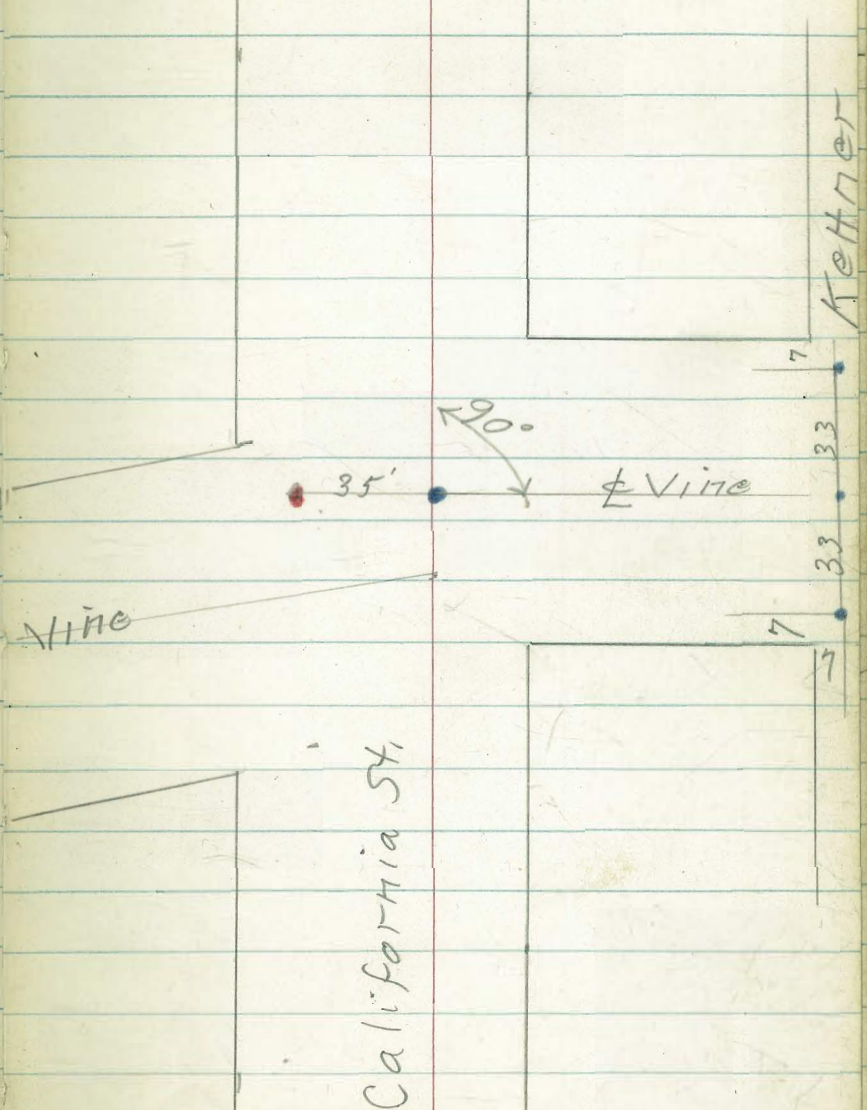
Bogg

Schelin

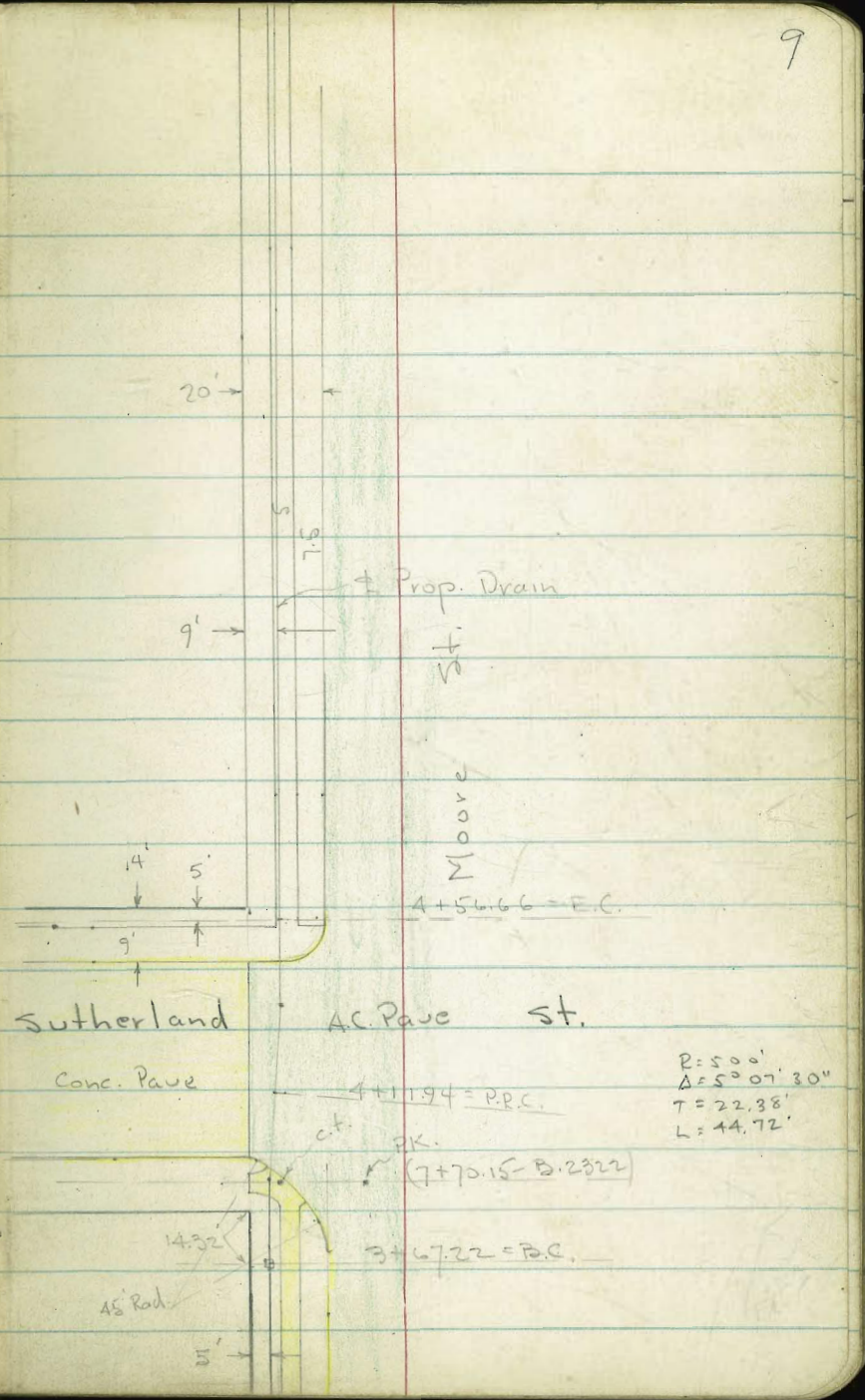
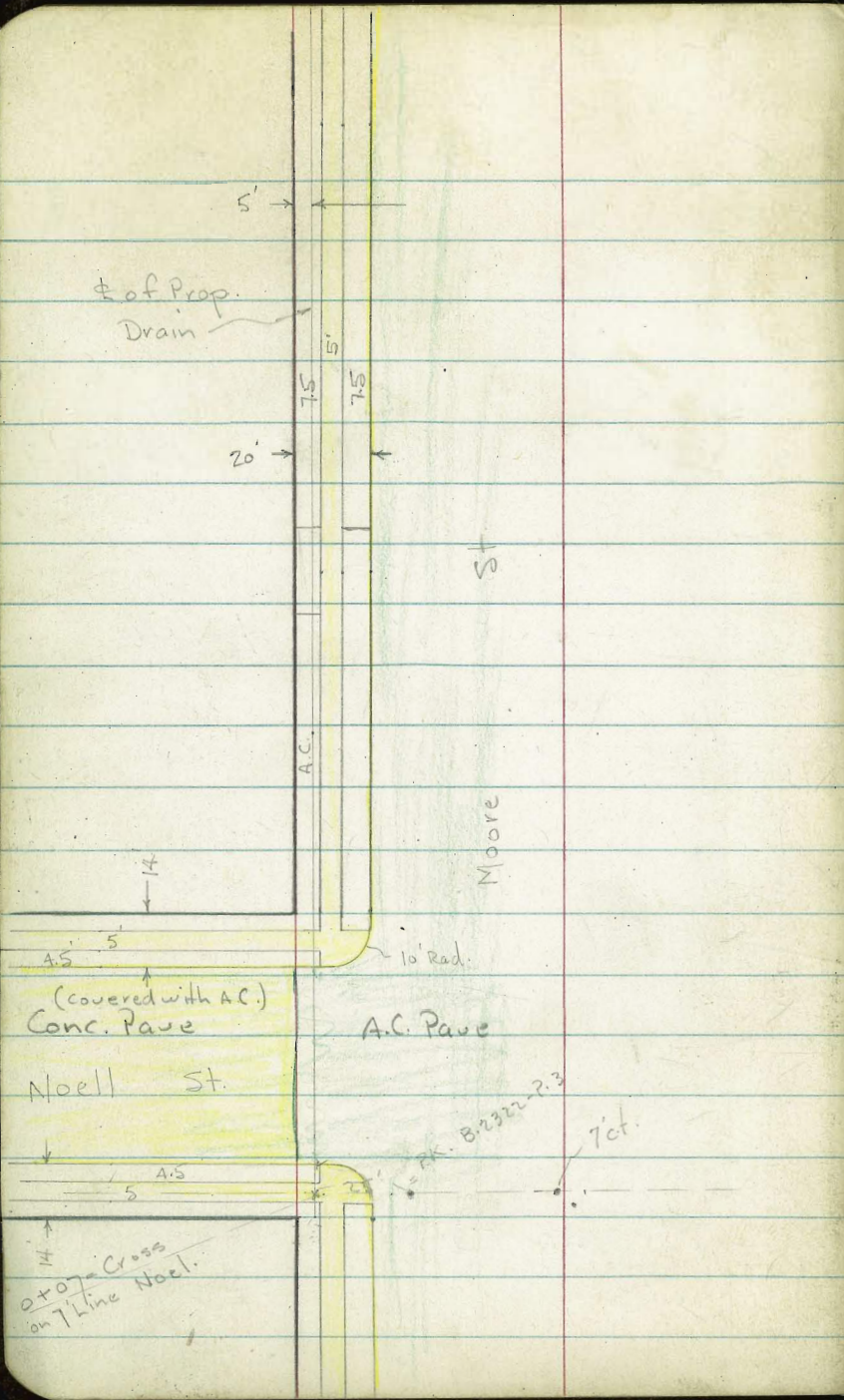
Pullan

Set 35' R.P. - P.K. Nail.

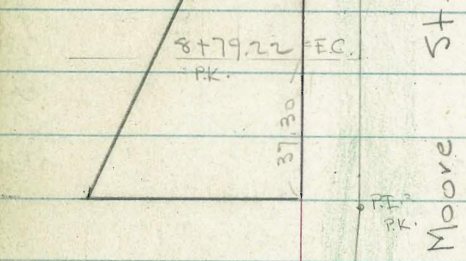
Fd. P.K. Nail - checks Tie sheet



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California St.

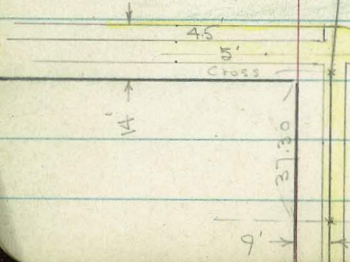


$10+11.94=EC$
 $9+74.21=BC$
 $\Delta = 24^\circ 42' 30''$
 $R = 87.50'$
 $T = 19.16'$
 $L = 37.75'$

± of Prop. Drain

Moore St

Clayton



$8+01.84=P.R.C.$
 $7+29.46=BC$
 $\Delta = 4^\circ 26'$
 $R = 1000'$
 $T = 38.71'$
 $L = 77.38'$
 Both Curves

$14+05.87=EC$
 PK.

$13+75.50=BC$
 PK.

Both Curves -
 $\Delta = 20^\circ$
 $R = 87$
 $T = 15.34$
 $L = 30.37$

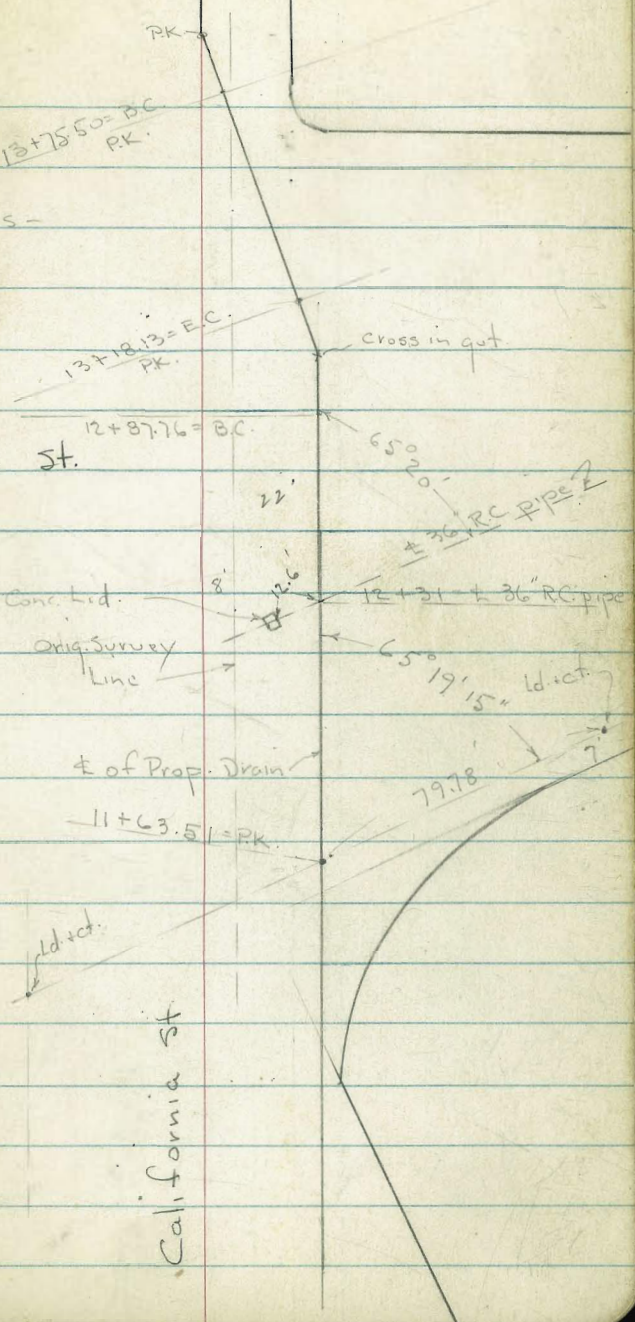
Washington St.

45' x 45' Box - Conc. Lid.

Orig. Survey Line

± of Prop. Drain

California St



$13+18.13=EC$
 PK.

$12+87.76=BC$

$11+63.51=PK$

cross in gut

650' x 20' RC pipe

12' 6" ± 36" RC pipe

65' 19' 15" Id. duct

79.78

± Id. duct

17+41.20 = 7' line
of winder

8' PK. = 21+20.68 = orig. line

$\Delta = 3^{\circ}08'$
 $R = 1000'$
 $T = 27.35'$
 $L = 54.69'$

21+97.94 = F.C.
= Hub.

21+43.25 = P.R.C.
= Hub.

40'

Chalmers St.

40'

20+88.56 = B.P.
= Hub.

Hub.

Fd. Hub. = 24+67.94

8'

Bean St.

± of Prop. Drain

± of Prop. Drain

orig. Survey Line

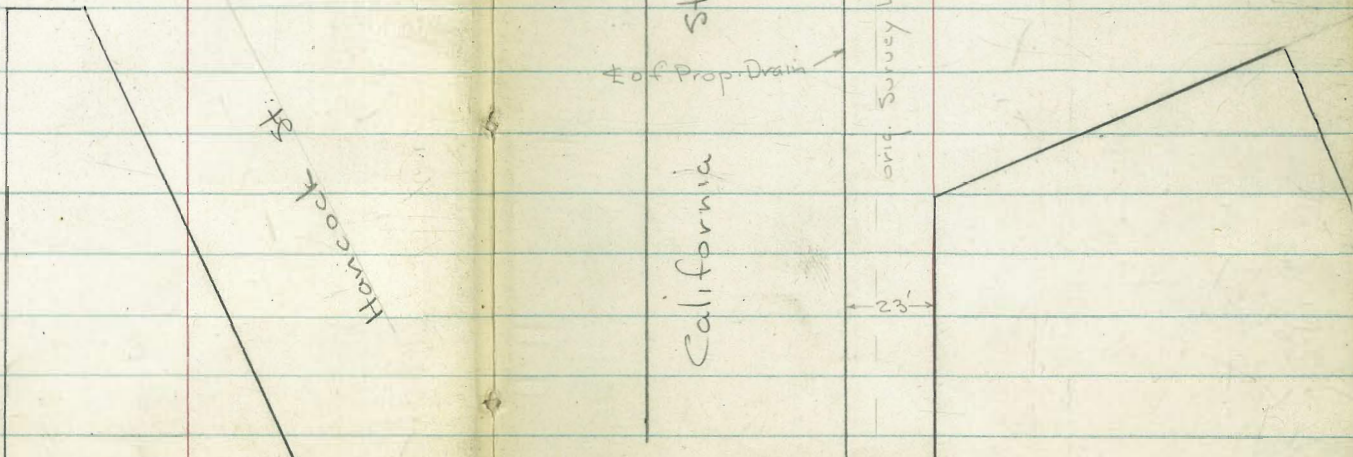
California St.

Hancock St.

California St.

Kurtz

23'



$26 + 51.54 = E.C.$
= Hub.

$\Delta = 2^{\circ}49'30''$

$R = 1000'$

$T = 24.66$

$L = 49.30$

$26 + 02.24 = B.C.$
= Hub.

of Prop. Drain \rightarrow 20'

Walnut

#

Ave

40'

40'

California St

California St

$24 + 69.17 = \#$ Walnut
 $= 28 + 48.43 - \text{orig line}$

$\Delta = 60^{\circ}$
 $R = 20'$
 $T = 11.55'$
 $L = 20.94'$

$29 + 60.33 = B.C.$

$29 + 81.27 = E.C.$

$30 + 48.15 = P.R.C.$

$\Delta = 70^{\circ}$
 $R = 20'$
 $T = 14.00'$
 $L = 24.43'$

$30 + 23.72 = B.C.$

$30 + 06.49 = \text{Gang of E. Rail. of W. Track}$

Ang. of Tang. to Curve of Track

of Prop. Drain

B2322-R13
Fd. PK.

Vine St.

$28 / 25 + 50.08 = \#$ Vine
 $= P.K.$

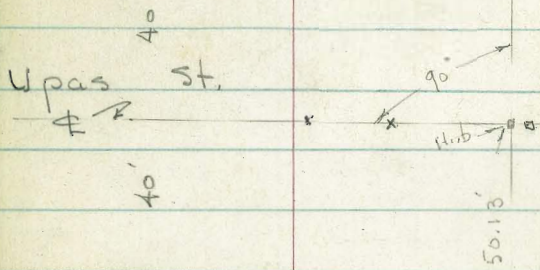
19.07

$87^{\circ}10'45''$

± of Prop. Drain

33 + 71.67 = E.C.

| |
|-------------------------|
| 30 + 48.15 = P.C. |
| 31 + 00 1° 01' 30" |
| + 50 2° 01' |
| 32 - 3° 00' 30" |
| + 50 4° 00' |
| 33 - 4° 59' 15" |
| + 50 5° 58' 45" |
| 71.67 = E.C. 6° 24' 30" |



Note: Turned
12° 50' To Corr.
Forward Tang.
But used Computed
Data.

$\Delta = 12^\circ 49'$ use
 $R = 1446.29'$
 $T = 162.44'$
 $L = 323.52'$

$\Delta = 12^\circ 50'$
 $R = 1444.39'$
 $T = 162.44'$
 $L = 323.52'$

Thorn st.
40'

36 + 40.17

Hub

± of Prop. Drain
 B. 2322 - P. 15
 Ed. Hub. = 40 + 26.33

California

← 56' → 19' →

± of Prop. Drain

Beg. Levels along \pm of Prop. Drain
 Moore - California - See sketch - P. 9-13

W.O. 21250 - 6-24-54 - 7.0.

INDEXED
 JUN 29 1954

| | Lt. | \pm | Rt. | 15 |
|--|--------------------------------|-----------------------------|-----------------------|----|
| 2+00 - 13' Rt = \pm of Lt. std. | 54.3 | 44.8 | 44.42 | |
| 1+80 - 5' Lt. = end Bldg. - 2-4" Conc. Drains along ^{end of} walk | ¹⁰ Top bank | | 2.5 = walk | |
| 1+79.5 = end Conc. - | 44.22 | 44.11 | | |
| - 5' Lt. = end fence + Beg. Bldg. | ⁵ By Bldg. | | | |
| 1+49.6 = end A.C. + Beg. Conc. walk | 44.23 | 43.88 | 43.72 | |
| | ⁵ = Conc. By Cr. | Conc. | 2.5 = edge of walk | |
| 0+81 - Beg. A.C. Pave | | 43.00 | 42.99 | |
| 0+80.5 - 12.7 Rt. = \pm Light Std. | | | 2.5 = walk | |
| 0+79.5 - 5.2' Lt. = Beg. Cyclone fence | | | | |
| 0+75.5 = walk | | 42.92 | | |
| 0+70.5 = walk | | 42.84 | | |
| 0+66 = cb. | 42.36 | 42.70 | | |
| 0+40 | ^{gut.} | ^{Top ch.} 42.77 | | |
| 0+14 = cb. line | 42.37 | 42.72 | | |
| 0+09.5 = walk | ^{gut.} | ^{Top} 42.81 | 42.80 | |
| 0+04.5 = walk | | 42.81 | 2.5 = edge of walk | |
| 0+00 | | 43.0 | | |
| B.M. - N.W 7 c.t. Noell | 42.52 | | | |

Actual Elev. Shown.

Lt.

±

Rt.

16

5+00-

47.42

47.37

47.27

4+61.8-92' Lt. - Beg. Bldg.

1.5
edge
walk3.5
edge

4+60-8.8' Rt. = ± Lt. std.

4+56.66 = E.C.

47.15
on walk

4+49.5-8.4' Lt. = ± P. pole # 3851

4+47.5 = cb. face

47.06

46.55

4+11.94 = P.R.C.

Top

gut.

46.73

3+95.6-6.5' Lt. = E.C. of Ret.

46.90

46.34

3+94.8-3.2' Lt. = end 45' Rad.

Top

gut.

3+88.6 = 5' Rt. = cb. face

46.70

46.25

2+79.4-12.9' Rt. = Beg. 45' Rad. Curve

Top

gut.

2+71.2 = 15' Rt. = P.C. of Ret

46.66

46.12

odd Ret. Ties to Tang. Prod.

46.62

46.01

Top

46.42

45.95

15
Top

gut.

3+67.22 = B.C.

49.4

46.6

46.50

3+20.5-12.5' Rt. = ± Lt. std.

5

25 = walk

Top bank

5" Iron + 12" Conc. from N.E.

+ 30" R.C. across st.

with 20" x 20" Iron Lid - 30" Cor. Iron ahead

3+02 = 0.4 Lt. = ± 36" Long (To our E) x 25" wide Box

45.66

41.94

Top = 5.

I.E. of

Rim

Box + pipes

2+50

49.4

45.1

6
Top

7+00
 6+86.5 - 8' Rt. = 14" Euc.
 6+62 - 3.5' Rt. = end Dr.
 6+50
 6+37 - 3.5' Rt. = Beg. Conc. Dr.
 6+36 - 7.8' Rt. = ± 14" Euc.
 6+09.5 - 1.5' Lt. = ± 2' Conc. walk
 6+08.5 - 9.2' Lt. = end Bldg.

48.12 48.07 47.97
 1.5 3.5
 edge walk edge

47.91

6+00
 5+90 - end Conc. Dr.
 5+89.5 - 8.9' Rt. = ± Lt. std
 5+86.5 - 1.5' Lt. = ± 3' Conc. walk
 - 9.3' Lt. = Bldg.
 5+65 - Beg. Conc. Dr. - Rt. of walk
 5+63 - 1.5' Lt. = ± 2' Conc. walk
 5+59.5 - 7.4' Rt. = ± Tel. pole
 5+57.5 - 9.2' Lt. = end Bldg.
 5+50

48.73 47.81
 9.3 walk 1.5

47.76 47.73 47.67
 1.5 3.5

48.82 47.71
 9.3 walk 1.5

48.77 47.69
 9.3 walk 1.5

47.55

5+34.2 - 9.2' Lt. = Beg. Bldg. + end Both Drives
 5+05.5 - 9.2' Lt. = end Bldg. - Beg. AC. Dr. on Lt. + walk + Conc. Dr. to Rt. of walk

Cont. of P. 20

Lt. ± Rt. 18

10+30

53.92

10+11.94 = E.C.

54.02

9+90 = 14.5' Lt. = Nearest Pt. of Conc. curb Island.

55.00 54.49

9+74.21 = B.C.

Top 14.5
gut

53.10

9+50

53.05
10

52.08

51.76
10

9+30

52.70
6

51.83

51.12
7

9+00

52.87
10

51.21

50.30
7

8+79.22 = E.C.

52.40
10

50.64

49.73
7

8+40

49.14

8+27 = 27' Rt. = ± 6" Water gate Cap.

8+29.5 = 12' Lt. = ± Lt. std. in 6' Diam Conc. Base

50.52 49.42

8+01.84 = P.R.C.

Top 9' Pavc
Conc.

48.41

7+75.8 = ch. face - req. AC. Pavc

48.10

47.72

7+39.5 = ± 2' Conc. walk to E. of Reg. walk

Top

gut

7+24.46 = B.C.

48.16

7+00.5 = 8.9' Rt. = ± Lt. std.

levels around Return at SEly. Cor.
of Clayton & Moore

20' cb. on Moore & 14' cb. on Clayton

Beg 45' sly from Prop. of Moore on Clayton cb.

45' S. gut. 43.89

Top 44.51

Prop. of Moore gut. 47.92

Top 48.57

+10' = P.C. of 10' Rad. gut. 48.06

Top 48.52

± of 10' Rad. gut. 48.16

Top 48.64

Prop. of Clayton
E.C. = 4' Nwly. from gut. 48.25

Top 48.71

4' = Ely. Line of Clayton gut. 48.30

Top 48.66

40' Ely. of Ely. Line gut. 49.38

Top 49.80

12 + 87.76 = B.C.
 12 + 88.0 = end A.C. + Beg Conc gut.
 12 + 80.5 = end Conc + Beg A.C.
 12 + 57.5 = end A.C. + Beg Conc
 12 + 55.1 = edge of Conc. gut + Beg. A.C.
 12 + 53.8 = cb. face
 12 + 52.5 - 6.3' Lt. = ☐ 2.5' x 2.5' Conc. base - Signal
 12 + 31 = Int. ☐ of 36" RC. pipe - See P. 10 for ang.

+ 12 + 00
 11 + 92 - 11.7' Rt. = cb. face Island.
 11 + 81.4 = Island cb. face
 Conc. gut. 1.3' wide from cb. face
 11 + 66.8 - 10' Lt. = P.R.C. of island cb.
 11 + 50
 11 + 30 - 6.8' Rt. = cb.
 11 + 00 - 3.3' Rt. = cb.
 10 + 82.5 - 5.4' Rt. = cb.
 10 + 65 - 10.8' Rt. = cb.

| | | | |
|------------------------|--------------------|-----------------|---------------------|
| | 48.99 | | |
| | 48.81 | | |
| | 48.49 | | |
| | 48.42 | | |
| | 48.91 | 48.40 | |
| | Top | gut. | |
| | 42.42 | 51.12 | 49.6 |
| I.E. of Box & pipes | 12.6 = on line. | Top of Box | Near Side |
| | 51.02 | 51.53 | 50.3 |
| | gut. | 16.8 Top cb. | |
| | | | 49.52 49.00 |
| | | | 11.7 Top gut. |
| | 50.07 | 50.56 | |
| | gut. | Top | |
| | | 50.51 | |
| | 51.02 | 50.58 | 51.24 |
| | | 6.8 gut. | Top |
| | 52.42 | 51.95 | 51.81 52.50 |
| | 10 | | 3.3 gut. Top |
| | | | 52.35 53.01 |
| | | | 5.4 gut. Top |
| | 53.09 | 52.81 | 53.53 |
| | | 10.8 Top | gut. |

Cont. from P 18

Lt. E. Rt.

17+80 = Edge of A.C.

42.85

17+66.4 - 10.1 Lt. = E 3'x3' Clean out

43.34 40.96

17+40

10.1
Rim I.E.

43.30

17+08 - 14.5 Lt. = E Sewer Mt. 44.12 = Rim

17+00

43.68

16+50

44.04

16+00

44.48

15+50

45.59

15+00

46.59

14+05.87 = E.C.

48.40

13+75.50 = B.C.

48.60

48.08 48.63
6.4
gut. Top

13+70 - 5.4 Rt. = cb. face

48.13

48.76

13+55 - 8.3 Rt. = cb. face

5.4
gut

Top

48.06 48.71

13+39.1 = end Conc. + Beg. A.C.

49.19

8.3
gut Top

13+16.3 = end A.C. + Beg. Conc.

48.89

13+03.9 = end gut. + Beg. A.C.

48.87

13+02.6 = cb. face

49.43

48.88

12+99.4 - 8' Lt. = E Signal Post - 2'x2' base

Top

gut.

12+89.1 = cb. face

48.95

49.45

gut.

Top

| | |
|--|----------------|
| 25+50 = - Top | 25.9 |
| 25+43 = Φ Pitch | 25.7 |
| 25+35 = Top bank | 27.6 |
| 25+26 | 26.1 |
| 25+00 | 26.2 |
| 24+50 | 26.5 |
| 24+00 | 26.5 |
| 23+50 | 27.0 |
| 23+00 | 27.6 |
| 22+50 | 28.9 |
| 21+97.94 = E.C. | 30.1 |
| 21+43.25 = P.R.C. | 32.2 |
| 20+88.56 = B.C. - 14.5' H. Φ Sewer MH 36.03' R. m | 34.5' = on Hub |
| 20+40 = old oil Ridge | 37.3 |
| 20+00 | 37.2 |
| 19+60 | 38.3 |
| 19+20 | 39.6 |
| 18+80 | 40.6 |
| 18+40 | 41.8 |
| 18+00 | 42.6 |

29+20- 57' Rt. = \pm Tel. pole
 29+08.2 = Cross Guard Rail - 3' Rt. = end.
 29+06.4 = edge of Walk
 29+05.5 - 26.9' Lt. = \pm outlet 24" RC pipe
 28+98.1 = edge Conc. Walk
 28+90.5 = edge AC.
 28+83 - 27.7' Lt. = \pm 3.5' x 2.5' ^{on 24" pipe} Box Inlet + grate
 28+65
 28+42 = edge of AC.
 28+30 - 30.5' Lt. = \pm 3.5' x 2' ^{on 24" pipe} Box Inlet + grate
 + 7' Conc. Headwall 6" wide
 28+05.5 - 31.6' Lt. = \pm Inlet of 24" RC pipe
 27+91
 27+84 = \pm Ditch
 27+75
 27+65
 27+00
 26+60 - 11.4' Rt. = \pm P. pole # 3572
 26+51.54 F.C.
 26+02.24 B.C.

Lt. \pm Rt. 23

23.80
 20.42
 26.9 = I.E.
 of outlet. 23.81
 23.49
 20.64 23.47
 I.E. of 27.7
 Box + Pipe Top of grate 23.90
 23.70
 21.12 23.63 24.7
 I.E. of 30.5 = Top of grate
 Box + pipe of grate
 21.28 24.85 = Top of
 I.E. of 31.6 wall
 Pipe 26.2
 21.8
 25.5
 24.4
 24.7
 25.05 = on Hub.
 25.45
 on Hub.

Lt.

±

Rt.

24

33+00

21.4

32+56.4' Rt. = ± P. pole # 3498

32+50

21.5

32+00

21.1

31+50

20.8

31+40 - 7.7' Rt. = ± Deadman

31+16 - 9.5' Rt. = ± 24" Euc.

31+13.5 - 6.6' Rt. = ± P. pole # 3516

31+00 - on edge of Fill

20.2

30+48.15 = P.R.C.

19.3

30+23.72 = P.C.

21.2

30+11.7 = Wly. Rail

22.90

30+06.5 = Ely. Rail

23.11

29+96.6 = Wly. Rail

23.25

29+91.2 = Ely. Rail

23.40

29+81.27 = F.C.

22.7

29+60.33 = B.C.

20.1

23.9

± Ditch

B.M. = □ on Signal base

24.03

29+52.5 - 5.7' Rt. - Nearest to Conc. Base of

Signal Rd.
28 x 3.5'

29+35 -

20.3

22.8

13 = ±
Ditch

5.7 = Top Conc.

Lt

←

Rt.

29

39+66.31
check B.M. on EC - orig Line 13.90 - 13.87

36+40.18 = ± Thorn

17.00


36+00

21.5 15.4

10
edge of fill

35+80 -

11.43 15.45 17.15 = Top of wall
I.E. of Top of
Inlet Grate 6.19

+ 10.5' Conc. Headwall + wingwalls - Conc. Apron 6x2 3.6 Box - 4' Deep - all sides - Metal grates
35+80 - 6.19' Lt = ± of Inlet of 72" wide x 3.6' High  Culvert - about 90° To Tracks

35+50

16.0

35+00

21.7

17.8

34+50

6
Top =
edge of fill

18.2

34+00

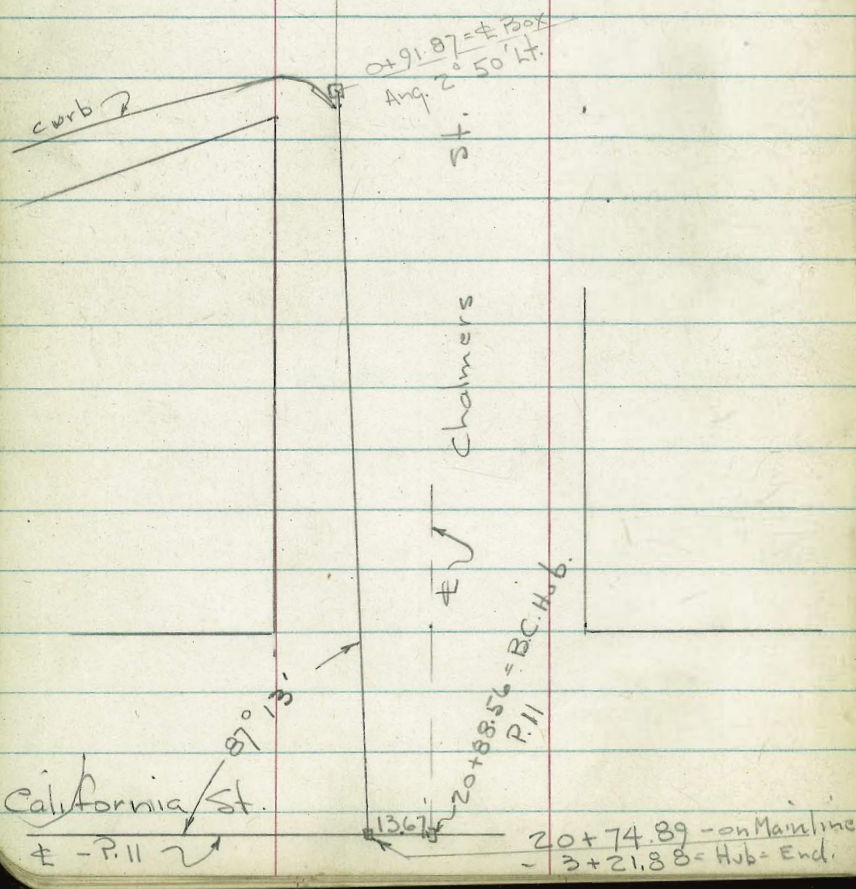
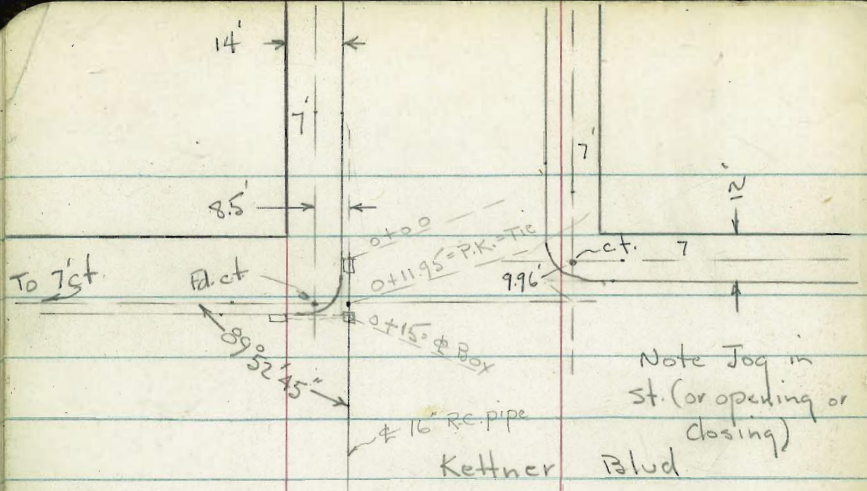
19.9

33+71.67 = E.C

19.45 = on Hub = T.P

33+50 - on edge of fill

20.1



Levels along \pm of Prop. Drain in
Chalmers St. - Kettner to California
See Sketch - P. 26 + 11

W.O. 21250 - 7-30-54 - 7.0.

12" to N. to \pm of 5.5' inlet
0+91.87 = \pm of 2'x2' Box - Clean out - 16" E + W.

0+90.7 - 5.7 Rt. = End of 5.5' opening - in Ret.

0+70.

0+55.

0+30

0.8 x 5' inlet + grate - 0.85' out from cb.
15' N. of \pm of Box = \pm inlet of 12" RC. + sly. of

(Clean out) 16" To W.
0+15 = \pm of Box - 2'x2' - 15" RC. - E. - 12" To N.

0+05.8 = Wly. of Inlet + \pm of inlet of 15" Pipe

15" RC. Pipe
0+00 = \pm + Ely. of 1.8 x 5.8' inlet + grate to

Kettner.
Check - S.E. B.P. Chalmers \pm - 49.88 - 49.78 = Book

B.M. = B.C. Hub. 20 + 88.56
P. 22 34.65

Lt. \pm Rt. 27

45.29 47.44 45.58
I.E. of \pm Box Top I.E. of 12" outlet.

47.45 48.37
5.7 = Top cb
got.

49.41

50.15

50.43

49.80 48.39 49.74
Top grate I.E. of Inlet. 12" got = Wly. of inlet

48.02 48.12 50.15 = 48.07
I.E. 15" to E outlet I.E. 12" to N. outlet Top of Box I.E. 16" To W. Inlet.

50.03 48.30
I.E. of Pipe

50.20
 \pm of inlet

Actual Elev. Shown.

| | LT. | ± | RT. |
|--|--|---------------------|------------------------------------|
| 2+00 | 41.6 20 | 41.3 11 | 42.2 43.9 10 |
| 1+86 - 4.4' Rt. = ± Guy. Pole | | | |
| 1+50 | 45.6 20 | 44.8 11 | 45.3 45.9 10 |
| 1+46 - 6' Rt. = ± P. pole # 1906 | | | |
| Water now flows thru old pipe + Barrels. (ignord (cant tell where change occurs.) | | | |
| 1+41.5 - 0.4 Rt. = ± of outlet of 16" Cor. Iron pipe | | | 43.86 I.E. of Pipe - 0.4 Rt. |
| 1+35 | 46.5 20 | 45.9 10 | 46.9 47.1 10 |
| 1+26.5 = Top Rail | 47.43 9 = along = edge of A.C. Rail | 47.40 | 47.40 6 = end along Rail |
| 1+20.9 = Rail | | 47.40 Rail | |
| 1+11.5 = W. Rail | | 47.53 Top rail | 9 = end of Rail |
| old st. car Rails still in Pipe | | | |
| 1+06 = E. Rail + edge of A.C. pave | | 47.58 Rail | |
| 0+95.7 - 1.7' Rt. = end of cb. Ret. | | | 47.30 1.7 = got Top-end cb. |
| ± of inlet - 3.7' N. of ± of Box | 45.88 I.E. of 12" inlet | 47.34 got = Lip. | 48.30 Top of cb. |

Lt.

♀

Rt

29

36.5
1.8
34.7

3+21.88 = 20+74.89 on Main Line

34.96
on Hub.

2+90

36.7 36.6 37.3 38.5
20 8 15

2+85 = about end of open Ditch

36.9 36.7 37.4 34.7 38 39.2
20 10 3 ♀ Ditch 5 15

2+76 = Beg. Barrels

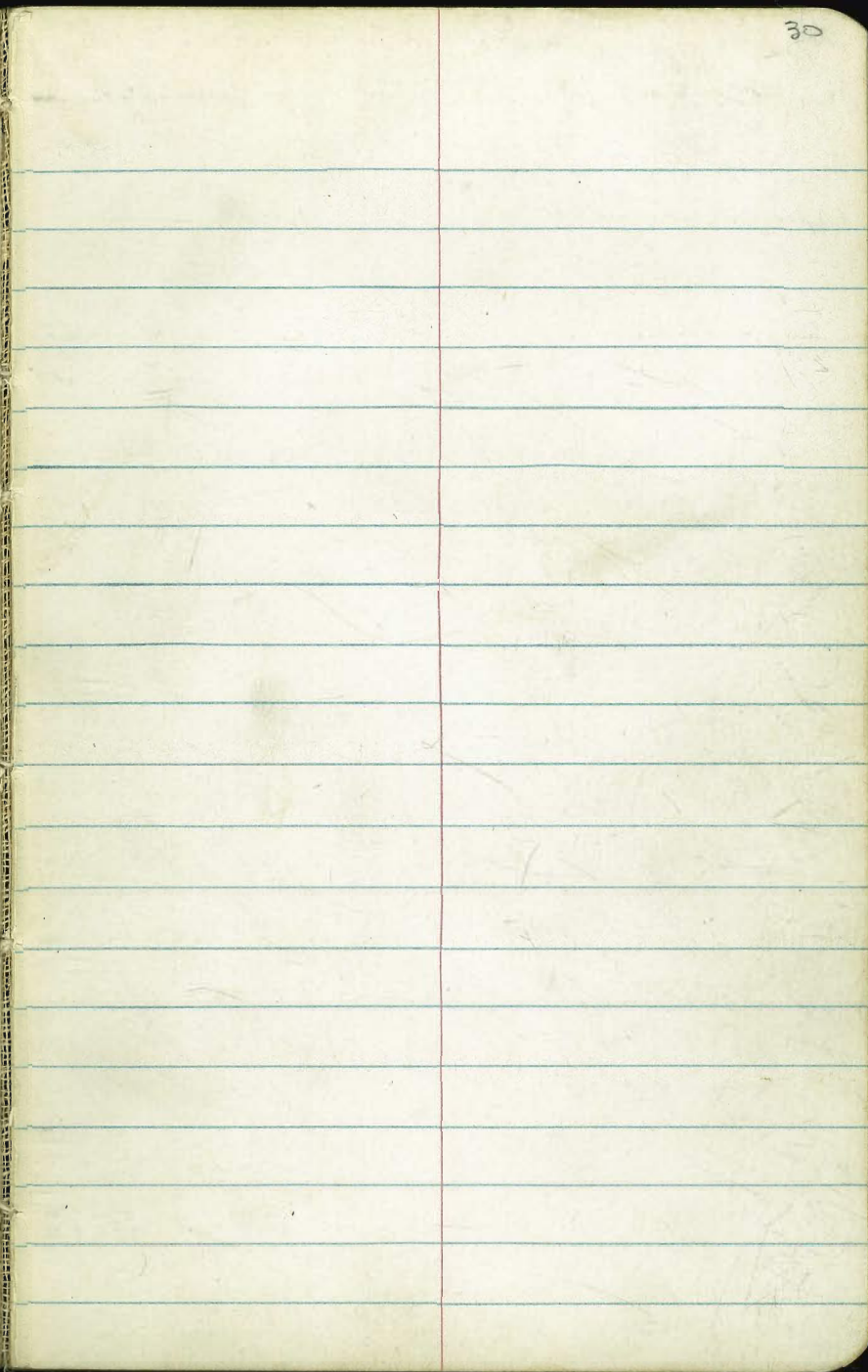
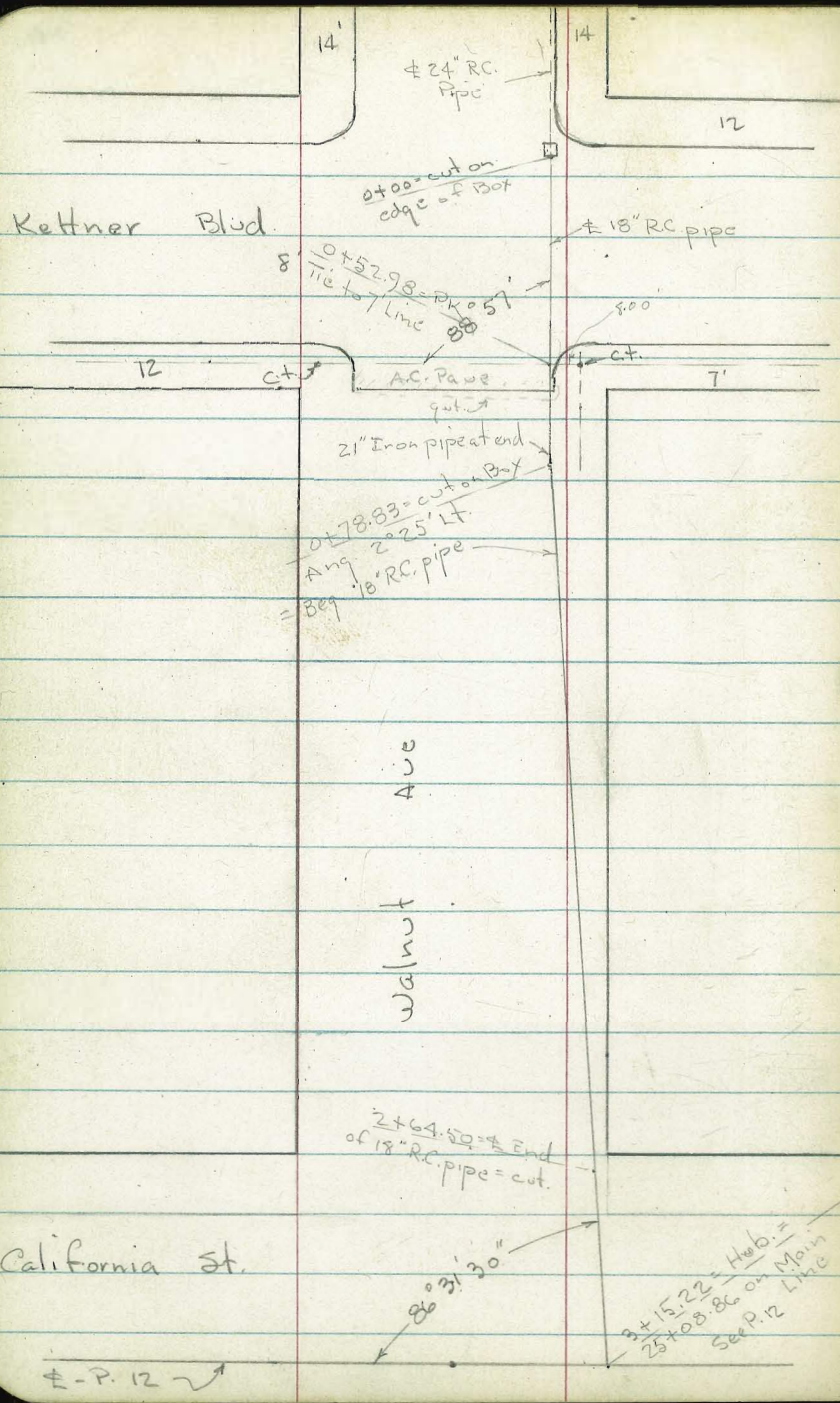
2+60

38.0 37.7 38.6 36.2 38.8 40.6
20 10 3 4 10

2+20 = ♀ of Drain Ditch

40.3 39.8 41.3 39.2 41.6 42.6
20 12 3 ♀ 4 10

2+01-4.5' Rt. = ♀ Deadman



Survey for Prop. Drain in Walnut Ave
Kettner to California - Conn. to Main Line
Line - sketch - P. 30 & 12

W.O. 21250 - 8-2-54 - 7.0.

2' x 2.5' Conc. Box - No Bottom.

0+76.8 = \pm end of 21" steel pipe - Poor Cond. + Beg.
Cart show change

34.52

I.E. of
21" outlet.

0+67 2 Rt. = wood Rail fence

39.39 40.01 39.59 40.13 39.64 40.27 39.64
Beg. 30' S. of gut Top gut Top gut Top gut.
S.L. 30'S. S.L. Kettner 1/4 1/2

40.33 39.69 40.23 39.59 40.02
Top gut 3/4 Top gut Top
end =
w.L. Walnut.

22' around - Prop top prop. - 4-parts
Levels around S.W. Ret. - Walnut + Kettner.

0+65.3 - 0.8 Rt. = \pm of inlet of 18" R.C. pipe

38.33

0.8 = I.E. of
inlet

0+63 = \pm Cross gut - goes to end of cb on N.

36.0 36.3 39.81 39.06 39.24 40.32
15 6 2 4 25
Top AC
gut

A.C. gutter across st.

0+60 = w.L. Kettner = edge of Reg. A.C. + Beg. Light

40.02 39.59 39.47 40.05 40.50
Top = 0.8
end cb. gut. 10 25

0+48 = w.cb. Kettner - Prod.

40.23 39.64 40.01 40.49
Top cb. 11.5 = P.C. of
gut. Ret. 11.5 10

0+22

41.08

0+00 = \pm w.L. of 2' x 3' Box (3' along Kettner) Inlet + grate

37.78 40.61 = Top grate 37.72
I.E. of 24" to E. I.E. of 18"
= 0.02 To w.

check S.F. B.P. - Walnut + Kettner

41.13 - 41.04 = Book

B.M. - Sw. Spike in Pole
Walnut + Calif.

26.38

Actual Elev. Shown

Lt.

\pm

Rt.

31

Req. Conc. Slabs for Rip Rap - 3.5' Rt.
2+64.50 = ± of outlet of 18" R.C. pipe

28.4 28.9 27.44 28.5 29.54
10 2 I.E. of outlet. 3.5 ±
Top Conc.

2+60
2+36 - 7' Rt. = ± Deadman
2+33 - 5.5' Rt. = ± 16" Pepper

28.3 28.4 29.7 28.6 27.9
15 5 10 20

2+05
2+03.5 - 5' Rt. = ± P. pole # P 1951

30.3 30.8 31.5 30.5
15 6 22

1+83.4 - 3.3' Rt. = ± Deadman
1+82.4 = end Conc. slab.

32.35 32.68 32.73
13 Conc. 1 =
Cor. Cor.

1+70
1+52.3 = Req. Conc. slab for Dr. to lumber yd.
1+44.5 - 1.5' Rt. = end fence

32.71 33.13 33.11 32.6
13 on Conc. 0.9
edge edge
Cont.

1+20

34.2 34.9 36.3 35.4 35.5
15 4 8 15

0+78.83 = Ang. Pt. = Wly. of Box & Inlet of 18" R.C. pipe

35.5 35.9 36.98 34.68 38.5 39.3
15 5 on Top Box I.E. of 18" 2 15
To w.

0+77 - 0.2' Lt. = ± of outlet of 18" R.C.
Dumps into Box &
18" To w.

36.79
I.E. of outlet
18" pipe

Lt. Rt.

3+15.22 = 25+08.86 on Main Line - See P. 22

26.1

2+90

27.2 26.5 28.5 27.1
15 12 7
± Ditch

26.5
18

2+87-3.7 Lt. = end Conc. Rip Rap

28.75
3.7
Conc.

2+75

27.9 28.0 27.2 27.5
15 8 4
± Ditch

28.83 28.0 27.2
1 5 18
Top Conc. 90%

Drain thru Convoir from
Lindberg Field to Pacific Hwy.

C.H.S.
Boyg
Scholia
Pullen.

Oct. 14, 1954

W.O.# 21250

- denotes P.K. Nail
- X " cross

2+03.29 = P.O.T. on Taxi strip
2+00

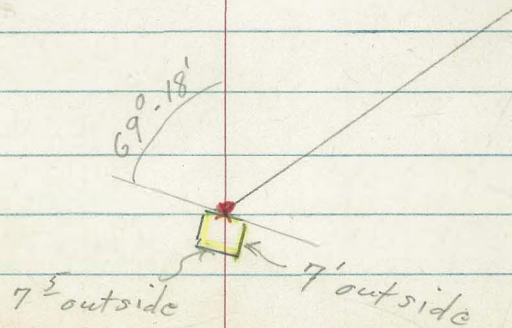
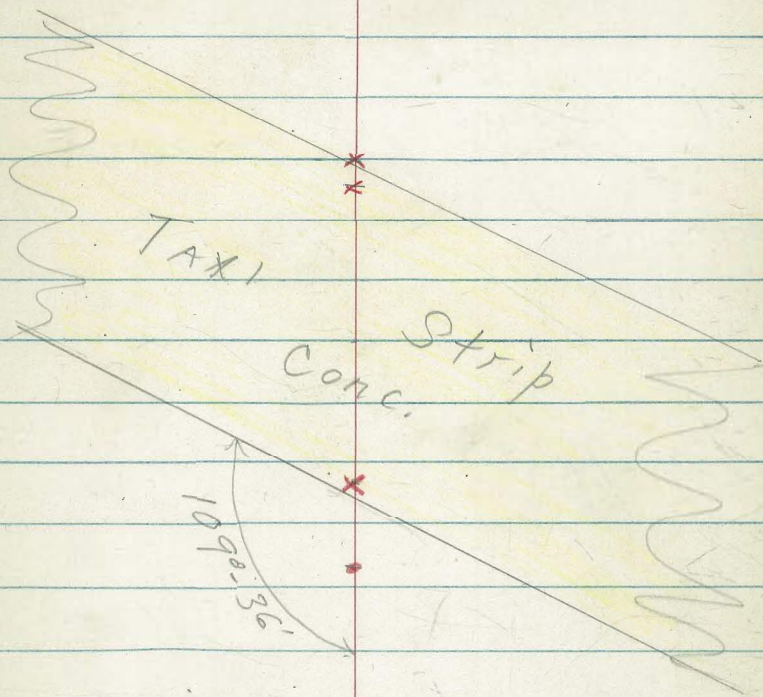
INDEXED
YES
OCT 20 1954

1+23.91 = P.O.T. on taxi strip

1+00

0+00

34

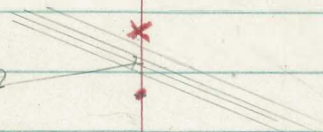


5+00

4+17.45

4+10 = 10' wide runway for gates

4+00

A railway
in concs

3+00

2+00

4

8+00

7+00

6+00

5+00

11+00

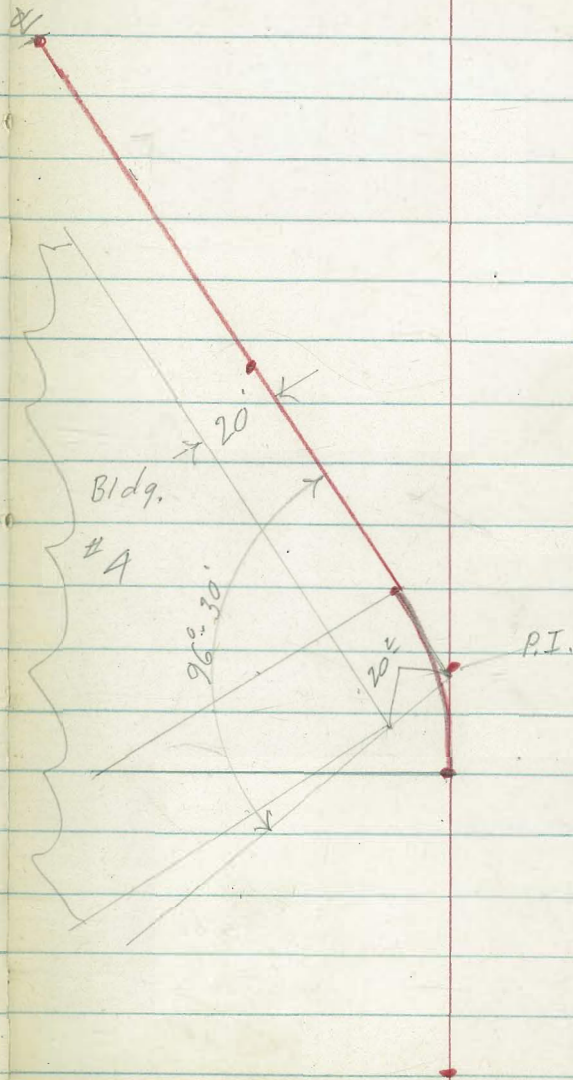
10+00

9+29.19 = F.C.

$$T = 26.31 \cdot L = 51.19 - \text{Ext.} = 3.77$$

$$8+78 = \text{B.C. Lt. } \Delta = 37^{\circ} 35' 15'' \quad R = 90$$

8+00



14+00

20'

13+00

Bldg #4

12+00

11+00

20'

16+83.21 = E.C.

S.T. = 44.43 - L = 70.11 - Ext. = 18.24

16+13.10 = B.C. Rt. $\Delta = 89^{\circ}16'$ $R = 45'$

16+00

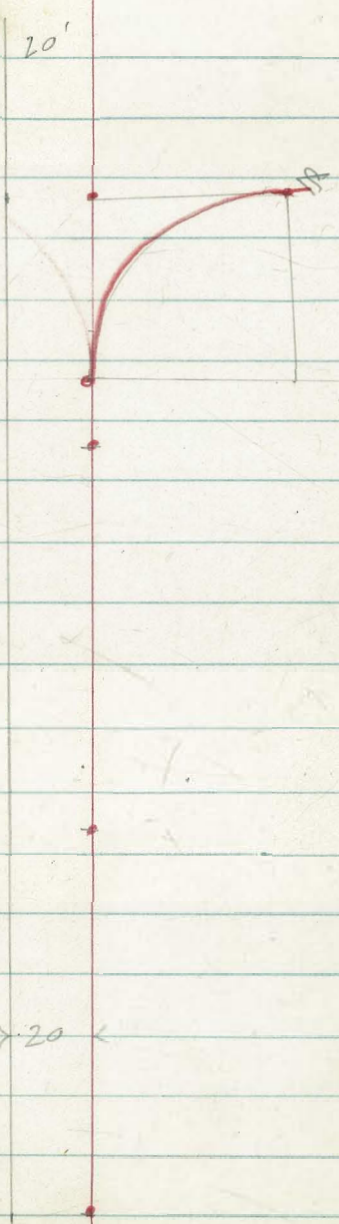
15+00

14+00

Bldg # A

20'

20'



20+00

19+11. 105' Lt. = ~~T.D.~~ C.O. 11/8/54

19+00

18+91± = intersect sewer

~~18+87~~ ~~40' V.D.~~

18+80 = Tie for sewer M.H.

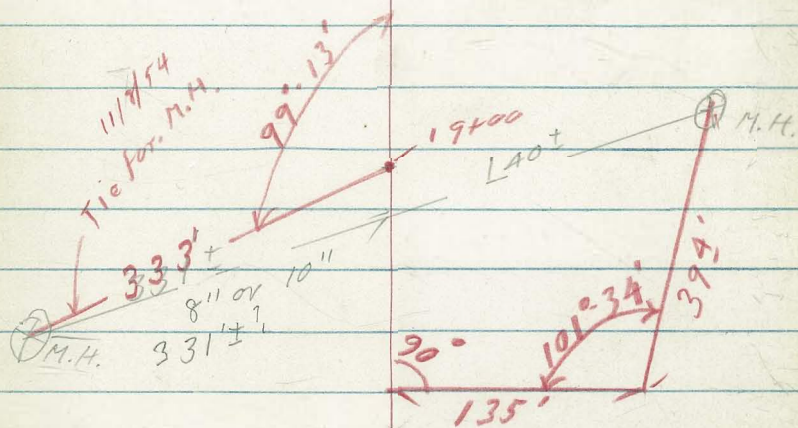
11/8/54 ↗
↘

18+54- 116' Rt. = ~~T.D.~~ C.O.

18+00

17+00

16+83²¹ = E.C.



23+00

22+00

21+17.5 = Δ 12.05' RT.

21+00

20+00

41

41

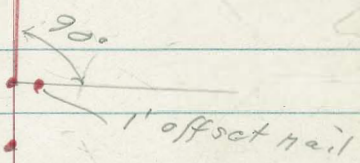
•

•

•

•

•



24+23.61 from below.

24+23.61 = Tie line - see above

24+20.60 = intersect Ch. line

24+00 = X, in walk.

23+95.49 = P.O.T. also = p.o.t. on 1' offset line.

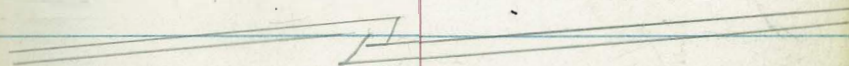
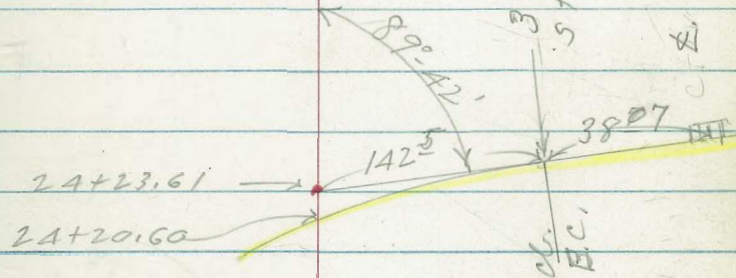
23+46.55 = End 1' offset line

23+24.72 = start 1' offset line

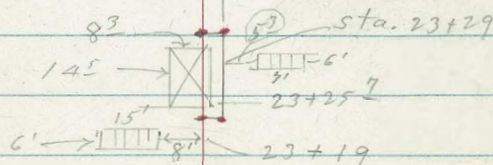
23+00

E

41



89°-42' see above detail



Levels. Drain
thru Conuair skotch P34

±

42

-4.55

0+07 = I. En Box.

15.27

-3.70

0-07^E = I.E. 42" pipe

14.42

10.72

0+00 = ± outside of box.

| | | | | |
|--------|------|--------------|------|-------|
| B.M.#3 | 5.05 | <u>10.72</u> | 5.80 | 5.67 |
| T.P. | 4.23 | 11.47 | 6.12 | 7.24 |
| T.P. | 5.20 | 13.36 | 5.08 | 8.16 |
| T.P. | 5.15 | 13.24 | 5.30 | 8.09 |
| T.P. | 5.37 | 13.39 | 5.51 | 8.02 |
| T.P. | 5.16 | 13.33 | 5.28 | 8.37 |
| B.M.#2 | 4.93 | 13.65 | 7.60 | 8.72 |
| B.M.#1 | 2.45 | 16.32 | - | 13.87 |

X in Taxi strip Sta. A+17⁴⁵ page 35

X in walk 24+00 Page 41.

1/2 39+66³¹ F.B. 2322 page #15

£

2+55

5.06

5.66

2+03⁶ = End conc Taxi strip + start A.C. Pauc.

5.71

5.01

2+00 X on Conc.

5.72

5.00

1+23⁸ = End A.C. + start Conc. Taxi strip

5.70

5.02

1+00

5.44

5.28

0+00 = Nail (X Box) = start A.C. Pauc.

4.16

6.56

10.72

5.87

5.72

11.59

T.P. 5.92 11.59 5.05 5.67

5.67

5.05

4+17⁴⁵ = x P.O.T.

5.64

5.08

4+16 = start Conc. Paved ^{parking yard.} Airplane

5.62

5.10

4+10 = ± 10' wide run way for
4+04⁰ end A.C. ^{gates}

5.57

5.15

4+00

5.15

5.57

3+00

10.72

±

T.P. / 5.45 13.33 3.71 7.88
↓
8+00

7.88
3.71

7+50

7.21
4.38

7+00

7.14
4.45

6+89: end Conc. & start A.C.

7.15
4.44

check this
(looks like plugged yard drop.)

6+33 10th AT = Ctr. 1¹/₂ x 1¹/₂ steel plate

6.51
5.08

6+00

5+69 15^{ft} Lt. = sprinkler connection ^{box}

5+63 19' Lt. = Air line valve box

11.59

T.P. 5.20 13.37 5.16 8.17

8.17

11+00

5.16

10+20 = Cross patch in Pava.

8.36

10+00

4.97

9+88 = Cross patch in Pava

9+70 12' RT = line of Bldg

9+36 = Cross patch in Pava.

8.20

9+29¹⁹ = E.C. 10⁵ Lt. = sprinkler line

5.13

9+21 = Cross patch in Pava.

8.22

9+03⁶ = Mid Curve

5.11.

8+83 = Cross sprinkler line

8.21

8+78⁰⁰ = B.C. (Page 37)

5.12

8+20

7.73

5.60

13.33

15+44⁵ 27' RT. = yard drop.

15+16 = Cross patch in Pave.

T.P. 5.40 13.51 5.26 8.11

13.51

| | |
|-------|-------|
| 7.38 | -0.12 |
| 6.13 | 13.63 |
| 27 | 27 |
| grate | I.E. |

15+00 10² RT. = Face (paint crib) of Bldg.

8.11
5.26

14+00

13+72 = cross patch in Pave.

7.95
5.42

13+00

8.16
5.21

12+71⁵ = cross patch in Pave.

12+00

8.20
5.17

11+97 - 9⁵ RT. = yard drop.

| | |
|----------------|----------------|
| 7.64 | 4.74 |
| 5.73 | 8.63 |
| 9 ⁵ | 9 ⁵ |
| Grate | I.E. |

13.37

T.P. 5.96 14.08' 5.39 8.12

17700

16783²¹ = E.C. $\left. \begin{array}{l} 11\frac{1}{2}' \text{ Lt.} \\ 13\frac{1}{2}' \text{ Rt.} \end{array} \right\} \text{ Line of Nearest Bldgs.}$

(check yard plot.)
also = twy. Cor. Bldg. #7

16768 - 11' Lt. = end fence

16754 = 3' Lt. Rt. = E.C. of fence.
= cross patch in pave.16748¹¹ = 12' Rt. = line of fence.
Mid curve.

16743 = cross patch in pave.

16730 = B.C. Rt. in fence (4' Lt. Rt.)

16713¹⁰ = B.C. Rt.16703 - 4⁵ Rt. = start 3' high pipe fence.

16700

15792 - 2⁷ Lt. = 8'x7' Elec. Vault.
Near edge - $\frac{1}{2}$ of

8.13

5.38

7.56

5.95

8.26

5.25

8.09

5.42

8.00

5.51

0.3

2.3

13.2

11.2

Bottom
of duct.Top of
duct.

13.51

18+57⁸ = 2nd rail of R.R. track

18+54 - 116' RT. = Y.D.

Grate EL. = +7.70

I.E. Elev. = -0.73

18+53¹ = 1st rail of R.R. track

18+26. 14' RT. = yard drop.

18+15 44⁶ RT.

18+02 - 8⁷ RT. = Elec. vault.

18+00

17+99 - 6⁶ RT. = small valve box.
(Air line? - check yard plot.)

8.66

5.42

8.67

5.41

7.30

1.8

6.78

12.3

1A

1A

grate

I.E. Box

3.6

5.2

10.5

8.9

44⁶

44⁶

Bottom of duct.

top of duct.

7.99

1.8

3.1

6.09

12.3

11.0

8⁷

Bottom

top of

top.

of duct

duct.

8.05

6.03

14.08

1946A - 53' Ltr Elec Vault.

| | |
|----------------|-------------|
| 5.12 | 6.62 |
| 8.90 | 7.40 |
| 53 | 53 |
| Bottom of duct | top of duct |

8.87

19475

5.15

19450

8.52

5.50

19419 - 55' Lt. = yard drop.

| | |
|----------|---------|
| 0.94 | 8.24 |
| 13.08 | 5.78 |
| 55 | 55 |
| I.E. Box | 9' into |

5

14.02

T.P. 5.51 14.02 5.57 8.51

19411 - 106' Lt. = Y.D.

EL. = 8.75
 IE. Grate
 ELEV.

8.51

5.57

19400

see sketch

18491[±] = intersect sewer line

| | |
|------------------|------------------|
| 2.38 | 8.89 |
| 11.70 | 5.19 |
| 331 [±] | 331 [±] |
| IE | Rim |

7.96

0.16

6.12

13.92

140[±]

140[±]

Rim

IE

18484 16[±] AX = start Bldg #10

14.08

22+03 25' Lt = yard drop,

6.0 8.1v
7.6 5.48
25 25
I.E. Box. grate

(sprinkler line?)

22+00 - 11² Rt = $\frac{1}{2}$ patch in Pavc.

8.44

5.16

21+48 = Cross patch in Pavc.

(also = cross Elec. ducts,
Elec. Vault)

21+31³ } 3² Rt = $\frac{1}{2}$ outside of 7'x10'

5.1 3.9

8.5 7.7

13.60

3⁵ 3⁵
Top of duct Bottom of duct

T.P. 5.19 13.60 5.61 8.41

21+17²⁶ = Δ 1⁰⁵' Rt.

8.41

5.61

21+00

8.40

5.62

20+94² 18² Rt = start Bldg. #1

8.8v

8.27

20+00 14² Rt = sprinkler valve

5.20

8.75

1.4
I.E. pipe

14.02

guard Headquarters

23+89 4³' Lt. ϕ steps to23+77 4²' Lt. ϕ steps to guard
Headquarters

ped. overpass.

9.18

9.22

23+41 8' Lt. = S.Wly Cor.

4.95

4.91

8

23+29 - 5³' RT. = guard rails
(see sketch p-41)23+25⁷ - 0⁵' 14⁵ x 8³ guard house
RT. = S.Wly Cor.(see page 41
checking entrants
23+19 - } 8' Lt. = guard rails for14.13T.P. 5.20 14.13 4.67 8.93

23+00

8.92

4.68

22+98 } cross patch in Pauc.

22+79 }

13.60

| | | | |
|------|------|------|---------|
| 8.72 | 8.22 | 7.58 | 8.00 |
| 5102 | 5.52 | 6.16 | 5.74 |
| 75 | 75 | 1425 | 1425 |
| el. | el. | G | el.E.C. |

#381
alarm.
193 RT. = 1⁵ Back of Cl. = Fire
section along curb.

24+20⁶⁰ = s.wly. el. line Pacific Hwy

| | | | | | | |
|------|------|------|----------|------|------|------|
| 8.34 | 8.46 | 8.09 | 7.93 | 8.09 | 8.40 | 7.84 |
| 5.40 | 5.28 | 5.65 | 5.81 | 5.65 | 5.34 | 5.70 |
| 75 | 42 | 42 | Q. drive | 8 | 8 | 75 |
| G | el. | G | | G | el. | G |

24+13

| | | |
|------|------|------|
| 8.61 | 8.57 | 8.56 |
| 5.13 | 5.17 | 5.18 |
| 5 | | 5 |

24+05 = Cross patch in Pav.

8.76

24+00

4.98

13.74

T.P. 4.98 13.74 5.37 8.76

= end A.C. + start Conc.

8.80

23+96 = Cross fence.

5.33

(outside of vault)
system vault.

23+91-54 RT. = ϕ sprinkler

4.7
9.4
9'
I.E. pipe

14.13

check to B.M. 1.81 13.89 (13.87) B.M. #1 - Page 42

T.P. 622 15.70 426 9.48

2.26

11.48

180⁵⁷

I.E. Box

6.76

7.80

6.98

5.94

180⁵⁷

180⁵⁷

G

cc

(Δ 89° 42' NT. - see page 41)

24+23⁶¹

180⁵⁷ NT = ctr. 10' cl. inlet

8.18

7.58

8.00

5.56

6.16

5.74

142⁵

142⁵

G

cc.B.C.

13.74

Drain, California at Sutherland.

6-23-55
C.H.S.
Begg
Scholin
Flora.

INDEXED
MEK
JUL 12 1955

T.P. Book # 2 - Page 67

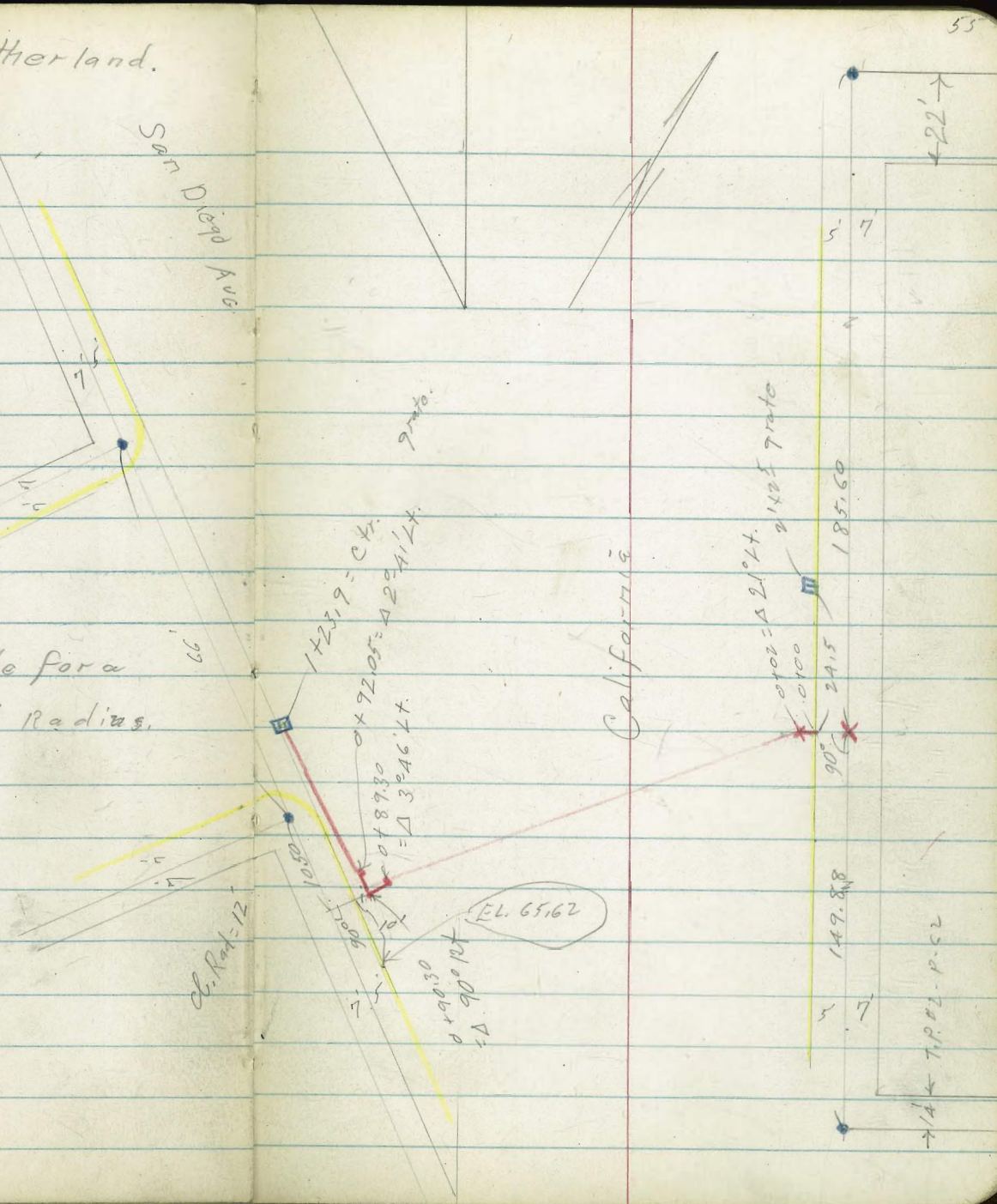
Yellow = Existing Curb.

Curb Inlet set to provide for a possible future 15' Curb Radius on Sly. Return.

Sutherland

San Diego Ave

California



B.M. = N.E. (N14) B.P. Sutherland
and La Jolla (San Diego) Ave. El = 67.19

0+65 18' RT. = Ctr. M.H. ^{Ave}
= approx E San Diego

66.03 60.47
18
I.E.

0+39

65.65

0+28

66.24

0+03 = lip of 3' wide conc. gutter

66.35

0+02 Δ 21" Lt. = inside of wall of C.I.

66.40 66.59 63.62
2.45 2.55
25x25 I.E. culvert
grate 2' culvert

0+00 in gutter

66.07 66.26 66.51
10 6
slg. edge drive

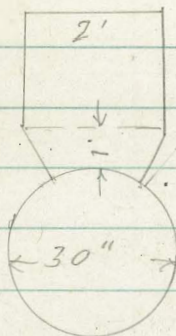
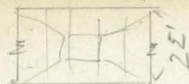
0+00 Top of Cb.

66.89 67.04 67.21
10 6
slg. edge drive
to Metal.

0-00^{5'} = Top of ch. ^{on walk}

67.24

Detail of drop at 1+23⁹



1+23⁹ = Existing

59.63
B3.46 56.96
grate I.E. 2 1/2' culvert.

0+98⁰⁷⁵ Lt. = B.C. of cl. rot.

65174 65127 65128
075 075
06 6

0+92⁰⁵ = Δ 2°-41' Lt. = inside of wall of box.

See sketch for Elev. cl. to S.E.

65126

0+90² = Δ 90° RA

65172 65120 65125
1' = ab. 1' = G.
90° to Fwd. Tang.

0+89³⁰ = Δ 3°-46' Lt. = inside of wall of box.

65131

0+80

65180

5.57
5.14
2.43
4.76
51.9

5.17
6.51
1170

4.6

5.95
4.43
1.52
4.60

35+80 - 61.9 Lt. = ± inlet 6.12
7.80
137.2

72" wide - 2.6' High



+ 10.5' Conc. Headwall
+ wing walls. - Conc. apron
6' x 2' Box - 4' deep - Metal Grates.

3+15
2+64.50 = end pipe
5 08 86
24+69.17
34.70

25+08.86

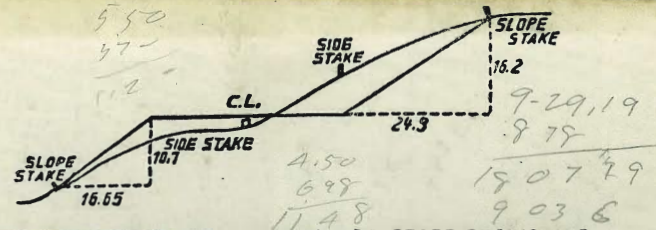
0+78.83 - 2°25' Lt
0+52.98

86° 31' 30" N.E.

3+15.22 = Hub.

8.43 boat
97
267.00
35.00
232.00
12.50
244.50
161.76
3049.15
5509.91

7.85
6.97
14.42
8.70
11.27



DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING.
SLOPE 1 1/2 TO 1. ROADWAY OF ANY WIDTH.

| | 0 | .1 | .2 | .3 | .4 | .5 | .6 | .7 | .8 | .9 | |
|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|
| 0 | 0.00 | 0.15 | 0.30 | 0.45 | 0.60 | 0.75 | 0.90 | 1.05 | 1.20 | 1.35 | 0 |
| 1 | 1.50 | 1.65 | 1.80 | 1.95 | 2.10 | 2.25 | 2.40 | 2.55 | 2.70 | 2.85 | 1 |
| 2 | 3.00 | 3.15 | 3.30 | 3.45 | 3.60 | 3.75 | 3.90 | 4.05 | 4.20 | 4.35 | 2 |
| 3 | 4.50 | 4.65 | 4.80 | 4.95 | 5.10 | 5.25 | 5.40 | 5.55 | 5.70 | 5.85 | 3 |
| 4 | 6.00 | 6.15 | 6.30 | 6.45 | 6.60 | 6.75 | 6.90 | 7.05 | 7.20 | 7.35 | 4 |
| 5 | 7.50 | 7.65 | 7.80 | 7.95 | 8.10 | 8.25 | 8.40 | 8.55 | 8.70 | 8.85 | 5 |
| 6 | 9.00 | 9.15 | 9.30 | 9.45 | 9.60 | 9.75 | 9.90 | 10.05 | 10.20 | 10.35 | 6 |
| 7 | 10.50 | 10.65 | 10.80 | 10.95 | 11.10 | 11.25 | 11.40 | 11.55 | 11.70 | 11.85 | 7 |
| 8 | 12.00 | 12.15 | 12.30 | 12.45 | 12.60 | 12.75 | 12.90 | 13.05 | 13.20 | 13.35 | 8 |
| 9 | 13.50 | 13.65 | 13.80 | 13.95 | 14.10 | 14.25 | 14.40 | 14.55 | 14.70 | 14.85 | 9 |
| 10 | 15.00 | 15.15 | 15.30 | 15.45 | 15.60 | 15.75 | 15.90 | 16.05 | 16.20 | 16.35 | 10 |
| 11 | 16.50 | 16.65 | 16.80 | 16.95 | 17.10 | 17.25 | 17.40 | 17.55 | 17.70 | 17.85 | 11 |
| 12 | 18.00 | 18.15 | 18.30 | 18.45 | 18.60 | 18.75 | 18.90 | 19.05 | 19.20 | 19.35 | 12 |
| 13 | 19.50 | 19.65 | 19.80 | 19.95 | 20.10 | 20.25 | 20.40 | 20.55 | 20.70 | 20.85 | 13 |
| 14 | 21.00 | 21.15 | 21.30 | 21.45 | 21.60 | 21.75 | 21.90 | 22.05 | 22.20 | 22.35 | 14 |
| 15 | 22.50 | 22.65 | 22.80 | 22.95 | 23.10 | 23.25 | 23.40 | 23.55 | 23.70 | 23.85 | 15 |
| 16 | 24.00 | 24.15 | 24.30 | 24.45 | 24.60 | 24.75 | 24.90 | 25.05 | 25.20 | 25.35 | 16 |
| 17 | 25.50 | 25.65 | 25.80 | 25.95 | 26.10 | 26.25 | 26.40 | 26.55 | 26.70 | 26.85 | 17 |
| 18 | 27.00 | 27.15 | 27.30 | 27.45 | 27.60 | 27.75 | 27.90 | 28.05 | 28.20 | 28.35 | 18 |
| 19 | 28.50 | 28.65 | 28.80 | 28.95 | 29.10 | 29.25 | 29.40 | 29.55 | 29.70 | 29.85 | 19 |
| 20 | 30.00 | 30.15 | 30.30 | 30.45 | 30.60 | 30.75 | 30.90 | 31.05 | 31.20 | 31.35 | 20 |
| 21 | 31.50 | 31.65 | 31.80 | 31.95 | 32.10 | 32.25 | 32.40 | 32.55 | 32.70 | 32.85 | 21 |
| 22 | 33.00 | 33.15 | 33.30 | 33.45 | 33.60 | 33.75 | 33.90 | 34.05 | 34.20 | 34.35 | 22 |
| 23 | 34.50 | 34.65 | 34.80 | 34.95 | 35.10 | 35.25 | 35.40 | 35.55 | 35.70 | 35.85 | 23 |
| 24 | 36.00 | 36.15 | 36.30 | 36.45 | 36.60 | 36.75 | 36.90 | 37.05 | 37.20 | 37.35 | 24 |
| 25 | 37.50 | 37.65 | 37.80 | 37.95 | 38.10 | 38.25 | 38.40 | 38.55 | 38.70 | 38.85 | 25 |
| 26 | 39.00 | 39.15 | 39.30 | 39.45 | 39.60 | 39.75 | 39.90 | 40.05 | 40.20 | 40.35 | 26 |
| 27 | 40.50 | 40.65 | 40.80 | 40.95 | 41.10 | 41.25 | 41.40 | 41.55 | 41.70 | 41.85 | 27 |
| 28 | 42.00 | 42.15 | 42.30 | 42.45 | 42.60 | 42.75 | 42.90 | 43.05 | 43.20 | 43.35 | 28 |
| 29 | 43.50 | 43.65 | 43.80 | 43.95 | 44.10 | 44.25 | 44.40 | 44.55 | 44.70 | 44.85 | 29 |
| 30 | 45.00 | 45.15 | 45.30 | 45.45 | 45.60 | 45.75 | 45.90 | 46.05 | 46.20 | 46.35 | 30 |
| 31 | 46.50 | 46.65 | 46.80 | 46.95 | 47.10 | 47.25 | 47.40 | 47.55 | 47.70 | 47.85 | 31 |
| 32 | 48.00 | 48.15 | 48.30 | 48.45 | 48.60 | 48.75 | 48.90 | 49.05 | 49.20 | 49.35 | 32 |
| 33 | 49.50 | 49.65 | 49.80 | 49.95 | 50.10 | 50.25 | 50.40 | 50.55 | 50.70 | 50.85 | 33 |
| 34 | 51.00 | 51.15 | 51.30 | 51.45 | 51.60 | 51.75 | 51.90 | 52.05 | 52.20 | 52.35 | 34 |
| 35 | 52.50 | 52.65 | 52.80 | 52.95 | 53.10 | 53.25 | 53.40 | 53.55 | 53.70 | 53.85 | 35 |
| 36 | 54.00 | 54.15 | 54.30 | 54.45 | 54.60 | 54.75 | 54.90 | 55.05 | 55.20 | 55.35 | 36 |
| 37 | 55.50 | 55.65 | 55.80 | 55.95 | 56.10 | 56.25 | 56.40 | 56.55 | 56.70 | 56.85 | 37 |
| 38 | 57.00 | 57.15 | 57.30 | 57.45 | 57.60 | 57.75 | 57.90 | 58.05 | 58.20 | 58.35 | 38 |
| 39 | 58.50 | 58.65 | 58.80 | 58.95 | 59.10 | 59.25 | 59.40 | 59.55 | 59.70 | 59.85 | 39 |
| 40 | 60.00 | 60.15 | 60.30 | 60.45 | 60.60 | 60.75 | 60.90 | 61.05 | 61.20 | 61.35 | 40 |
| 41 | 61.50 | 61.65 | 61.80 | 61.95 | 62.10 | 62.25 | 62.40 | 62.55 | 62.70 | 62.85 | 41 |
| 42 | 63.00 | 63.15 | 63.30 | 63.45 | 63.60 | 63.75 | 63.90 | 64.05 | 64.20 | 64.35 | 42 |
| 43 | 64.50 | 64.65 | 64.80 | 64.95 | 65.10 | 65.25 | 65.40 | 65.55 | 65.70 | 65.85 | 43 |
| 44 | 66.00 | 66.15 | 66.30 | 66.45 | 66.60 | 66.75 | 66.90 | 67.05 | 67.20 | 67.35 | 44 |
| 45 | 67.50 | 67.65 | 67.80 | 67.95 | 68.10 | 68.25 | 68.40 | 68.55 | 68.70 | 68.85 | 45 |
| 46 | 69.00 | 69.15 | 69.30 | 69.45 | 69.60 | 69.75 | 69.90 | 70.05 | 70.20 | 70.35 | 46 |
| 47 | 70.50 | 70.65 | 70.80 | 70.95 | 71.10 | 71.25 | 71.40 | 71.55 | 71.70 | 71.85 | 47 |
| 48 | 72.00 | 72.15 | 72.30 | 72.45 | 72.60 | 72.75 | 72.90 | 73.05 | 73.20 | 73.35 | 48 |
| 49 | 73.50 | 73.65 | 73.80 | 73.95 | 74.10 | 74.25 | 74.40 | 74.55 | 74.70 | 74.85 | 49 |
| 50 | 75.00 | 75.15 | 75.30 | 75.45 | 75.60 | 75.75 | 75.90 | 76.05 | 76.20 | 76.35 | 50 |

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