Notes C'd by
Map No.
Office Work
Checked
Date

Survey of
JN Tape Std °F
Surveyed by
Notes Date
Indexed

F.B. 1882

Page	Job	Description
		SAN GABRIEL CYN. RD. (N. END) E. FORK J.N. 0907.11
1-5	Index	
7-54	"P" Line	From Big Pines Hwy. Sly to S.G. 63
55-116	Elev.	Angles & Elevations to side shots for Photogrammetry control-S25 to S44.
151-234	Triang.	System Angles on S.G. 28 to S.G. 63 from Vincent Gap to Iron Forks Cyn.
235-246	B.M.	Bench Levels from U.S. 2402 at Prairie Forks Range Sta. to P.I. 206 on Camp Bonita Prairie Forks Rd.
247-253	Cont.	Topog. control at proposed Camp Site 1/2 mile SEly of Vincent Gap.

Microfilmed Feb. 87

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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F.B. _____ Pg. _____

76F3095 S&E #247. 6-64

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Office Work
Checked
Date

W. O. Tape No. Sht.
Surveyed by
Notes
Date
Indexed

F. B. Pg.

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F. B. ____ PG. ____

San Gabriel Cyn. Rd. F. B. 1882 Pg. 1

Map No.
Office Work
Checked
Date

W. O. 0907.11 Tape No. 125 Sta. 64
Surveyed by L. V. Smith
Notes L. V. S. Date 6-1-55
Indexed 8-22-55

SAN GABRIEL CANYON RD.
(NORTH END)

J. N. 0907.11

"P" LINE FROM
BIG PINES HIGHWAY
SOUTHERLY TO
S.G.-63

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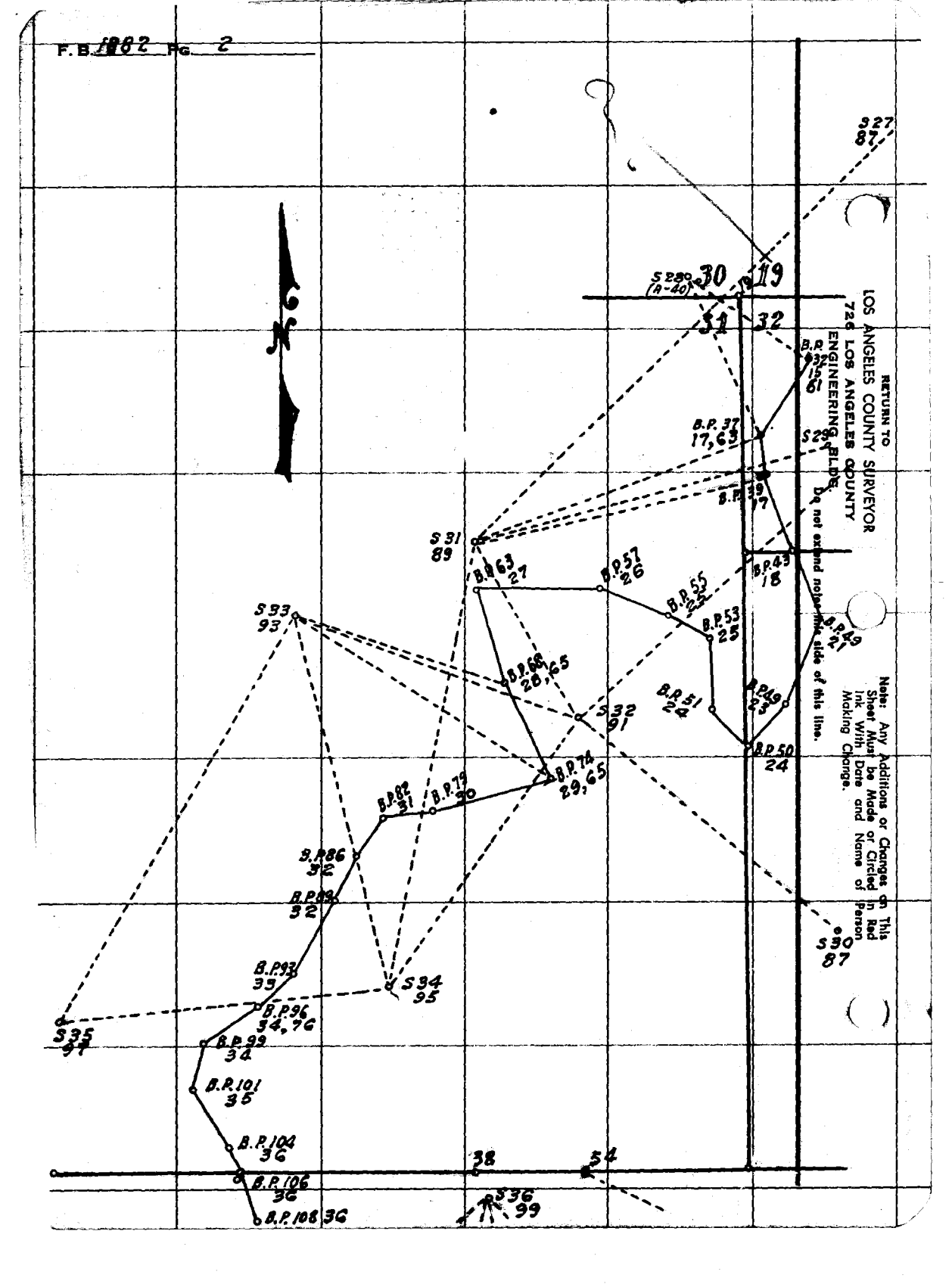
76F3095 S&E #247. 8-54

F.B. 1882 Pg. 2



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F. B. 1882 PG. 3

Map No.
Office Work
Checked
Date

W. O. Tape No. Sp'd.
Surveyed by
Notes Date
Indexed

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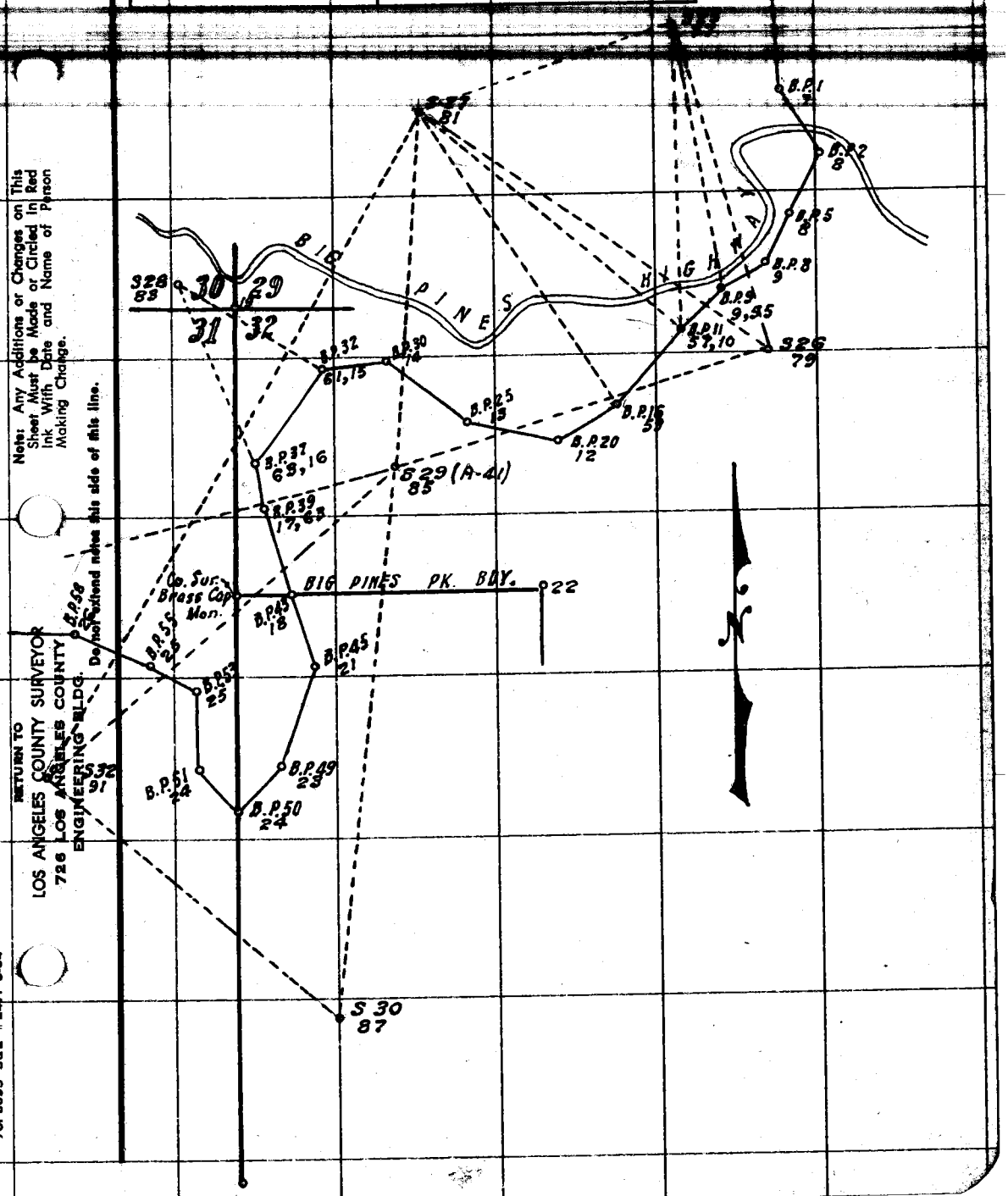
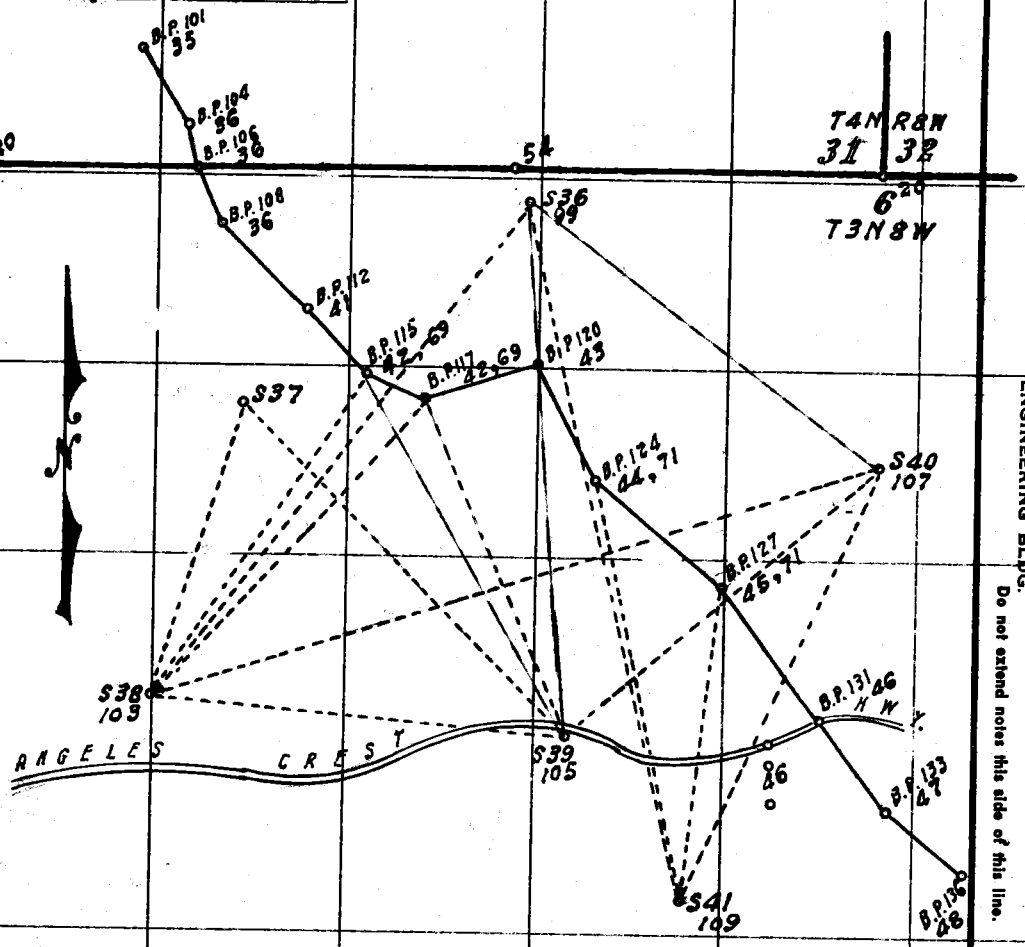


76F3093 SSE #247. 8-54

F.B. 1082 PG. 4



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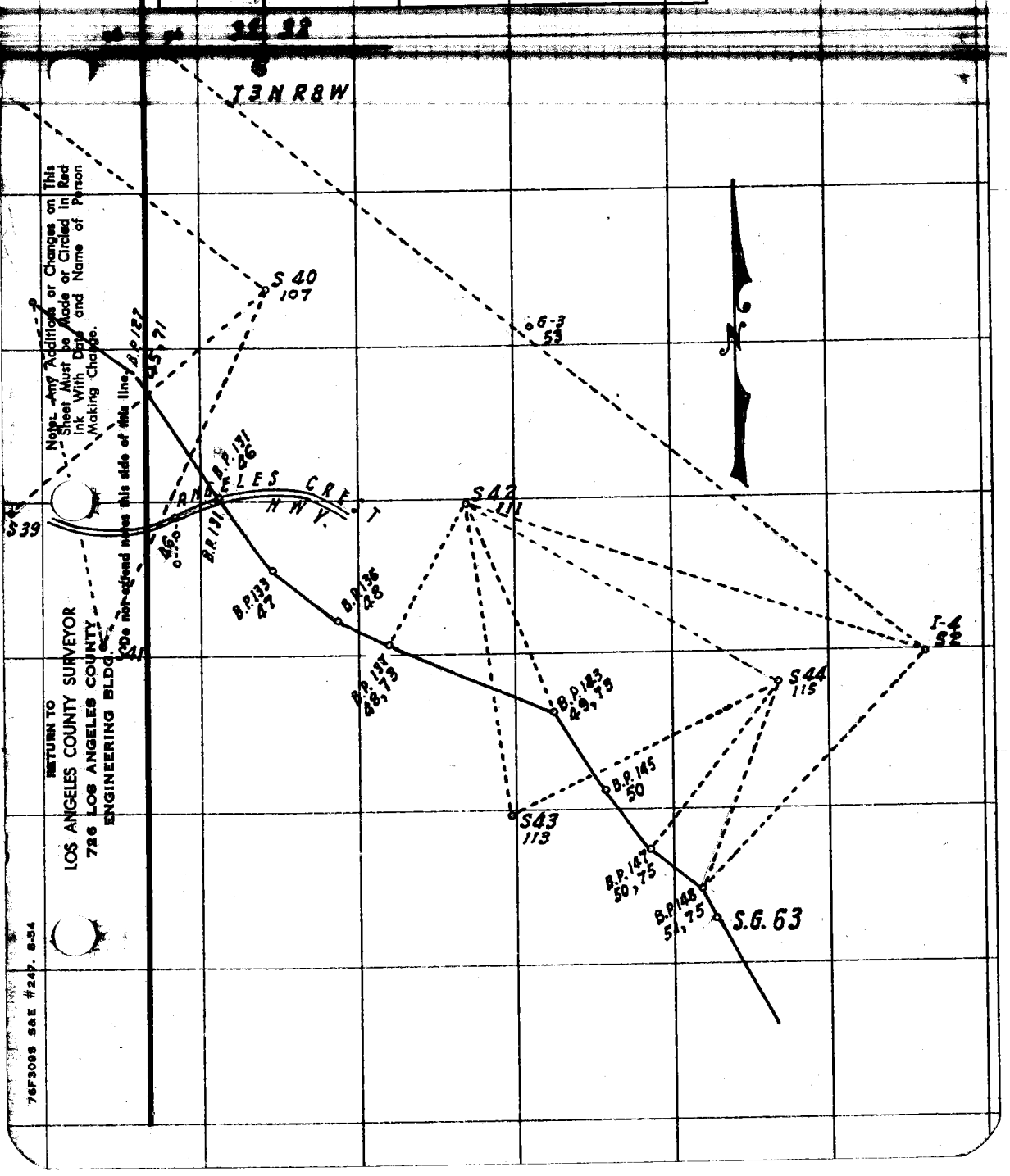
F. B. 1882 PG. 5

Map No.
Office Work
Checked
Date

W. O. Tape No. St'd. °F
Surveyed by
Notes Date
Indexed



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76F3098 S&E #247. 8-54

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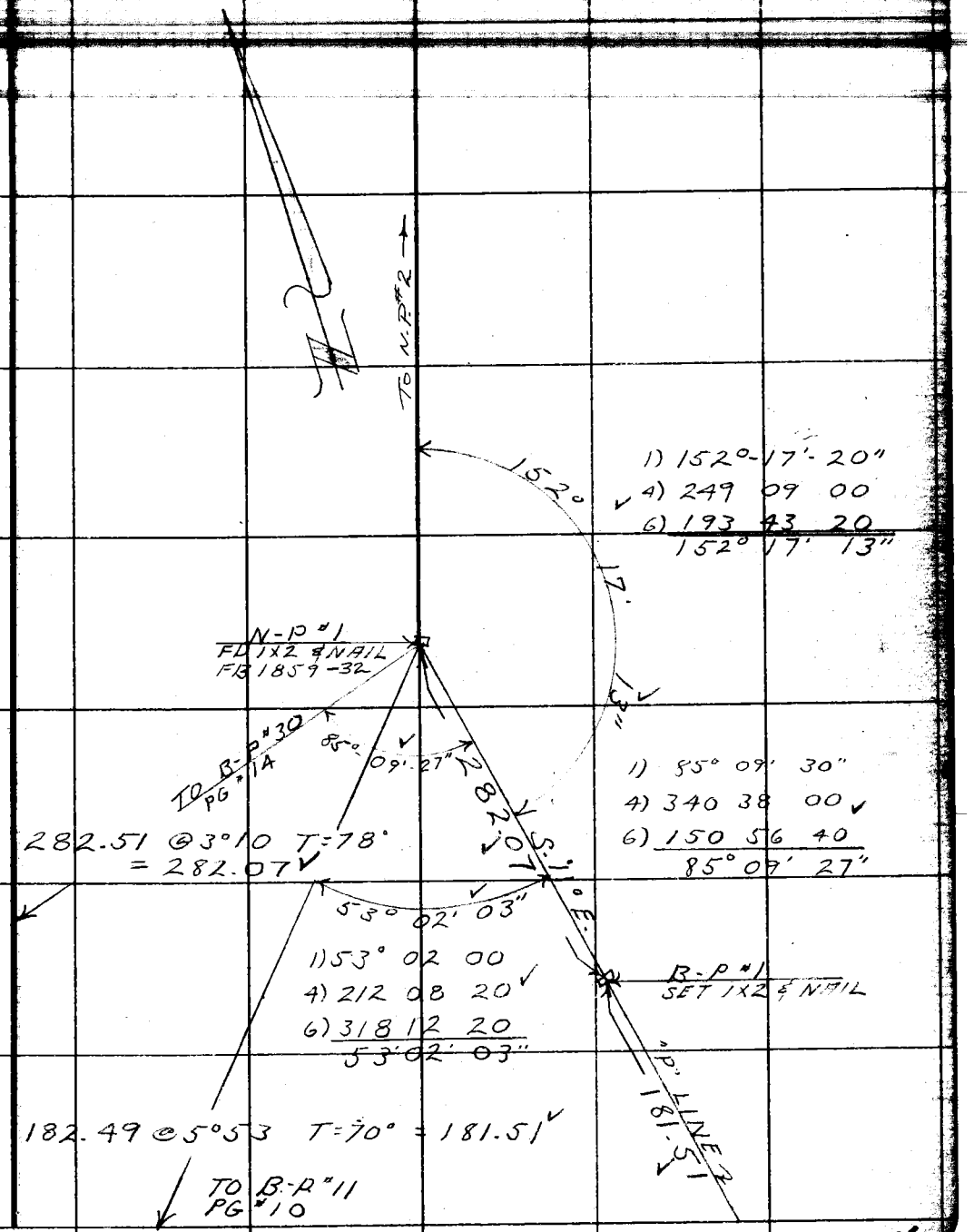
F. B. _____ PG. _____

F. B. _____ PG. 7

Map No. _____
Office Work _____
Checked _____
Date _____

W. O. [illegible] Tape No. 127 Std. [illegible] °F
Surveyed by L. V. SMITH
Notes L. V. S. Date 6-2-55
Indexed [illegible]
8-22-55



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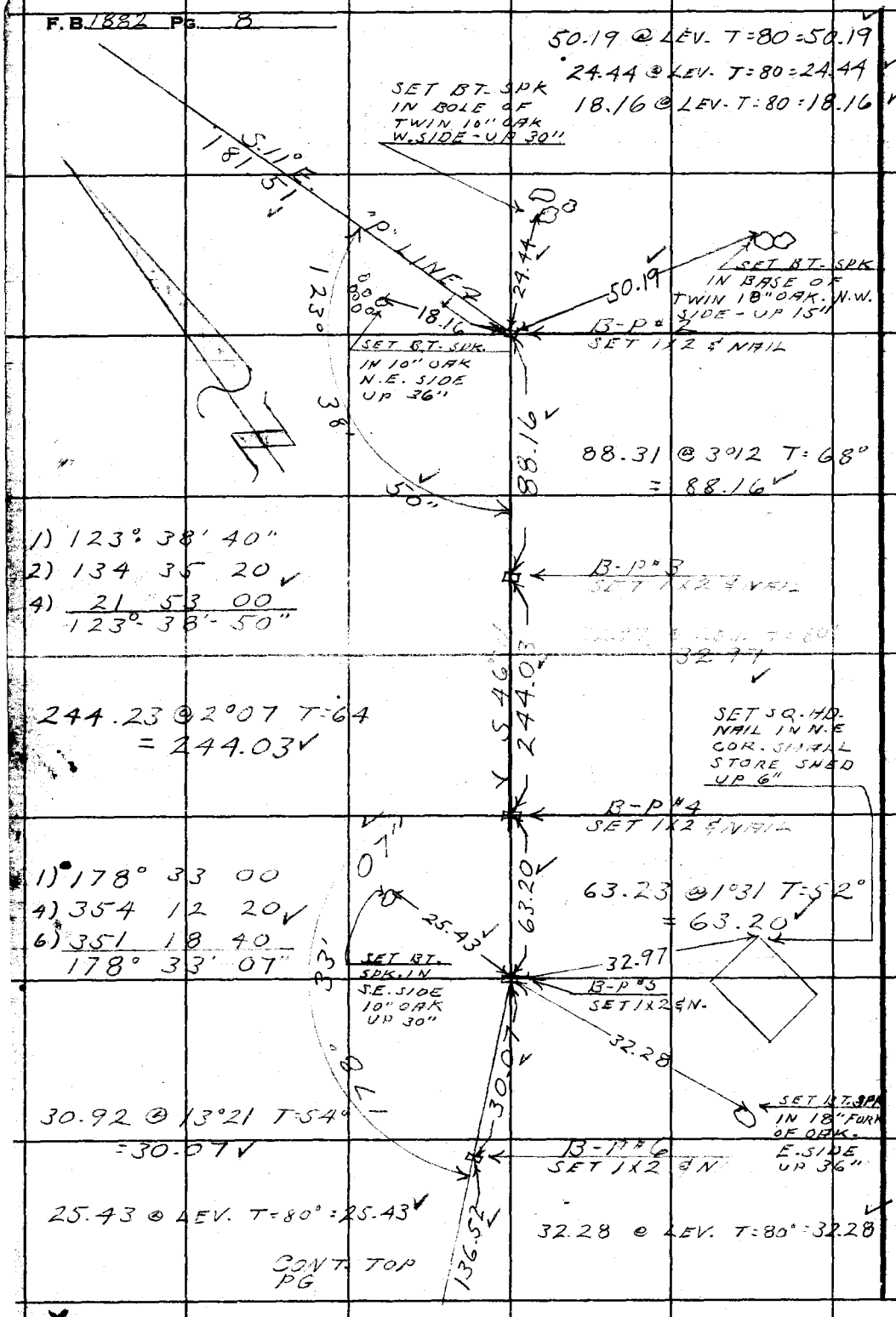
76F3095 S&E #247. 8-54

F. B. 1882 Pg. 8



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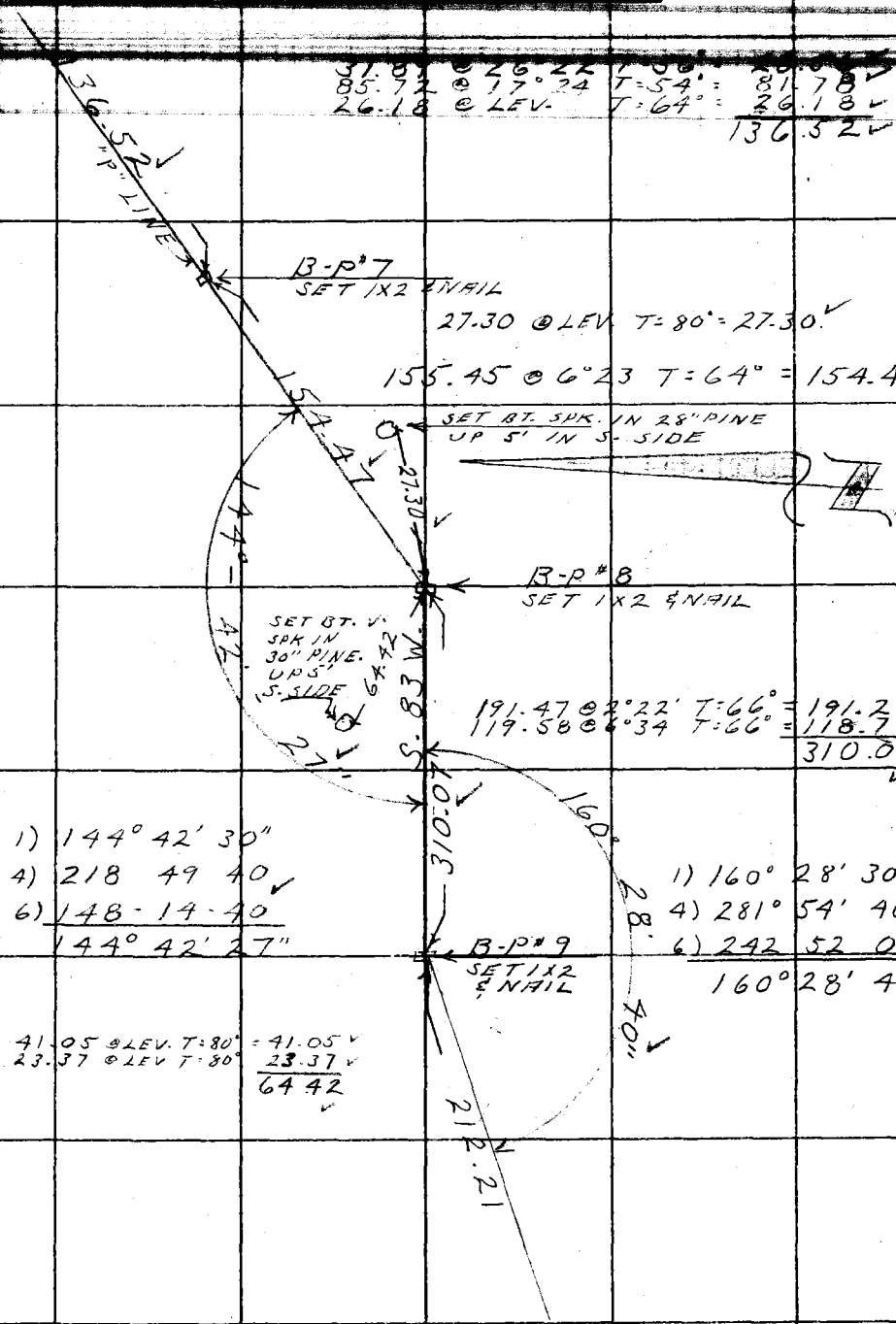
F. B. _____ PG. _____

Map No.	W. O. 11 Tape No. ____ St'd. 84 °F
Office Work	Surveyed by L. V. SMITH
Checked	Notes L. V. S. Date 6-2-55
Date	Indexed



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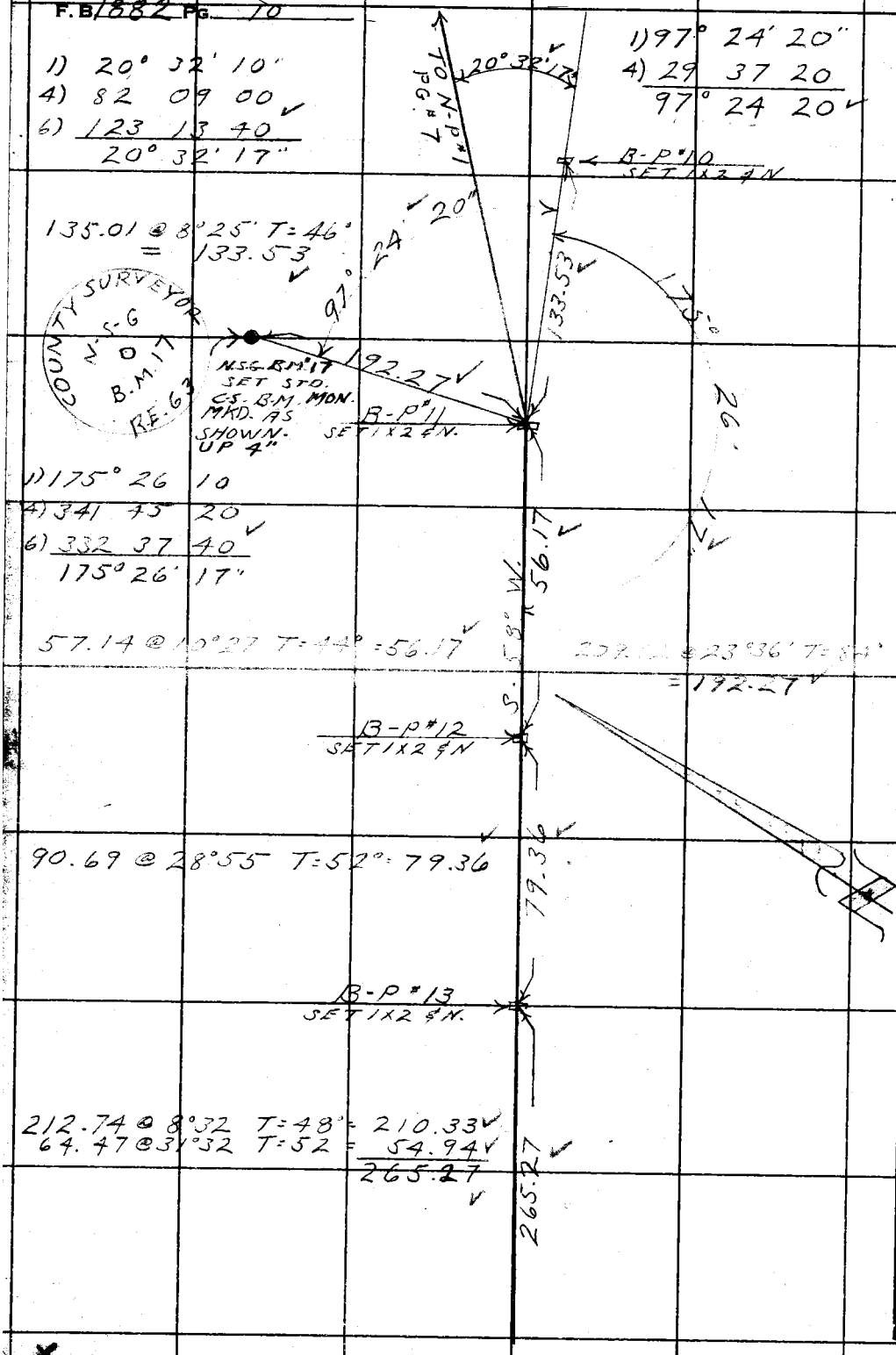
76F3095 S&E #247. 8-54

F.B. 882 Pg. 10

1) 20° 32' 10"
4) 82 09 00
6) 123 13 40
20° 32' 17"

1) 97° 24' 20"
4) 29 37 20
97° 24 20



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F. B. _____ PG. _____

Map No. _____
Office Work _____
Checked _____
Date _____

W. O. 77 Tape No. 120 St'd. 99 °F
Surveyed by L. V. SMITH
Notes L. V. S. Date 6-2-55
Indexed _____

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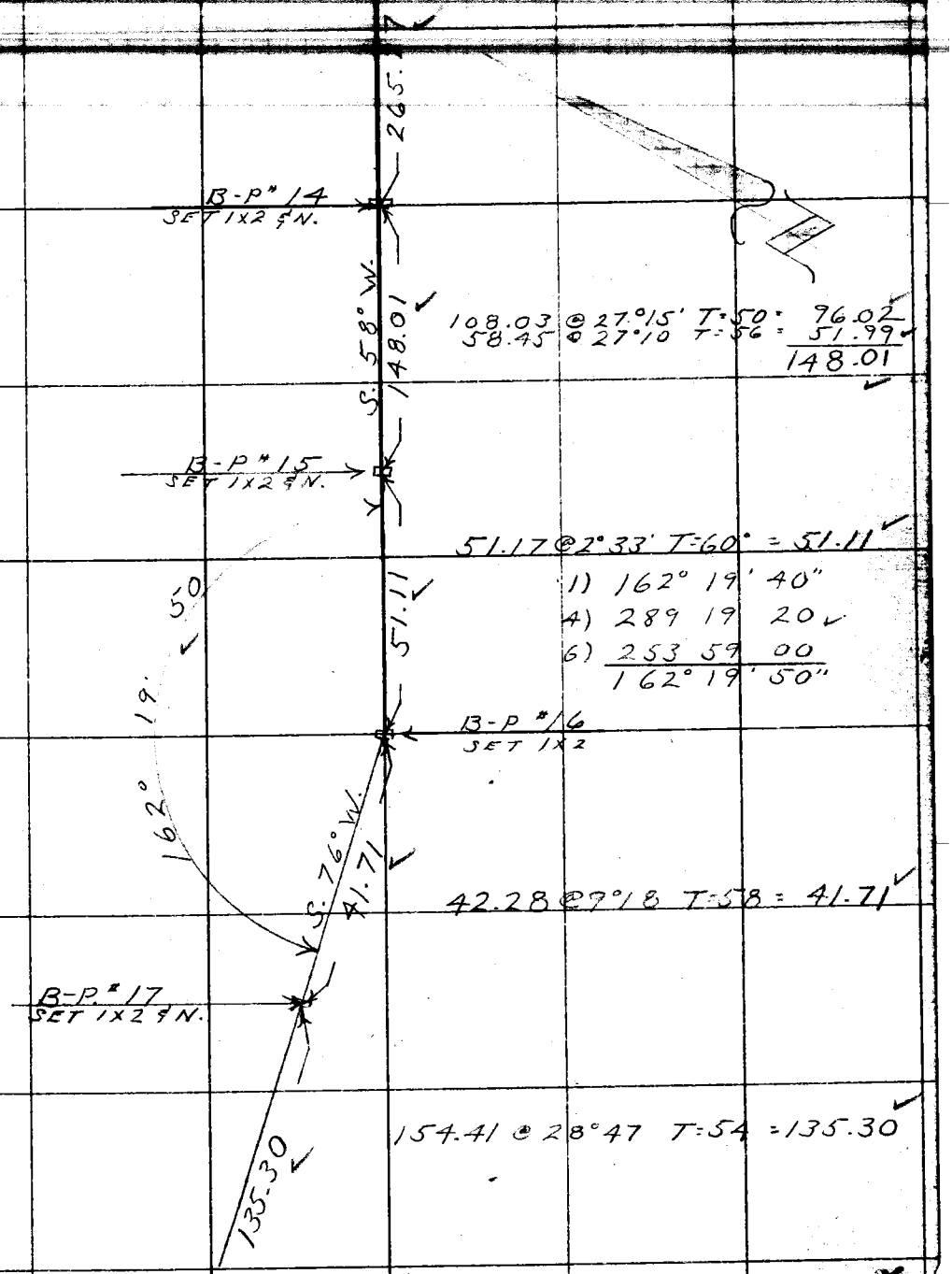
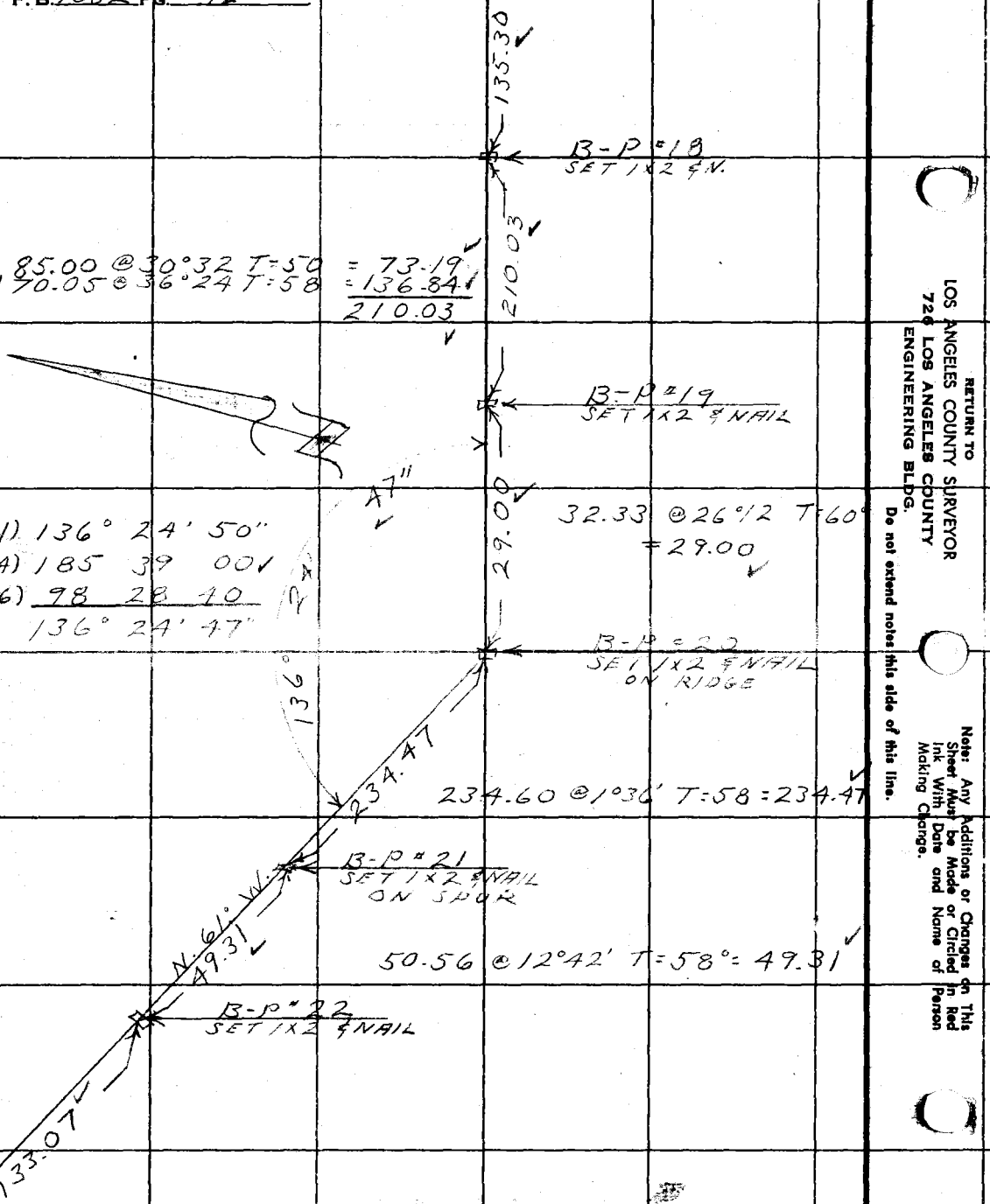
76F309S S&E #247. 8-54



F. B. 1882 Pg. 12



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F. B. _____ Pg. _____

Map No. _____
Office Work _____
Checked _____
Date _____

W. O. _____ Tape No. 27 Std. 84 °F
Surveyed by L. V. SMITH
Notes L.V.S. Date 6-9-55
Indexed _____

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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

57.

B-P # 26

115.45

12.52 @ LEV T=82°: 12.52
107.94 @ 17°31 T=90°: 102.93
115.45

B-P # 25
SET 3/4" I.P. CONC. PLUG
& CARTRIDGE

89.63 @ 27°51 T=82°
= 79.25

1) 26° 44' 20
4) 106 57 40
6) 160 27 00
26° 44' 30"

79.25

26° 44' 30"

N. 61

B-P # 24
SET 1X2 & NAIL

69.77 @ 1°41 T=86°: 69.74

1) 137° 07' 10"
4) 188° 28 40
137° 07' 10"

69.74

N.S.G. R.M. #18
SET STD. C.S.B.M.
MON. IN CONC. UP
4" MKD. AS SHOWN

COUNTY SURVEYOR
N.S.G.
B.M. 18
R.E. 63

102.62

B-P # 23
SET 1X2 & N

137° 07' 10"

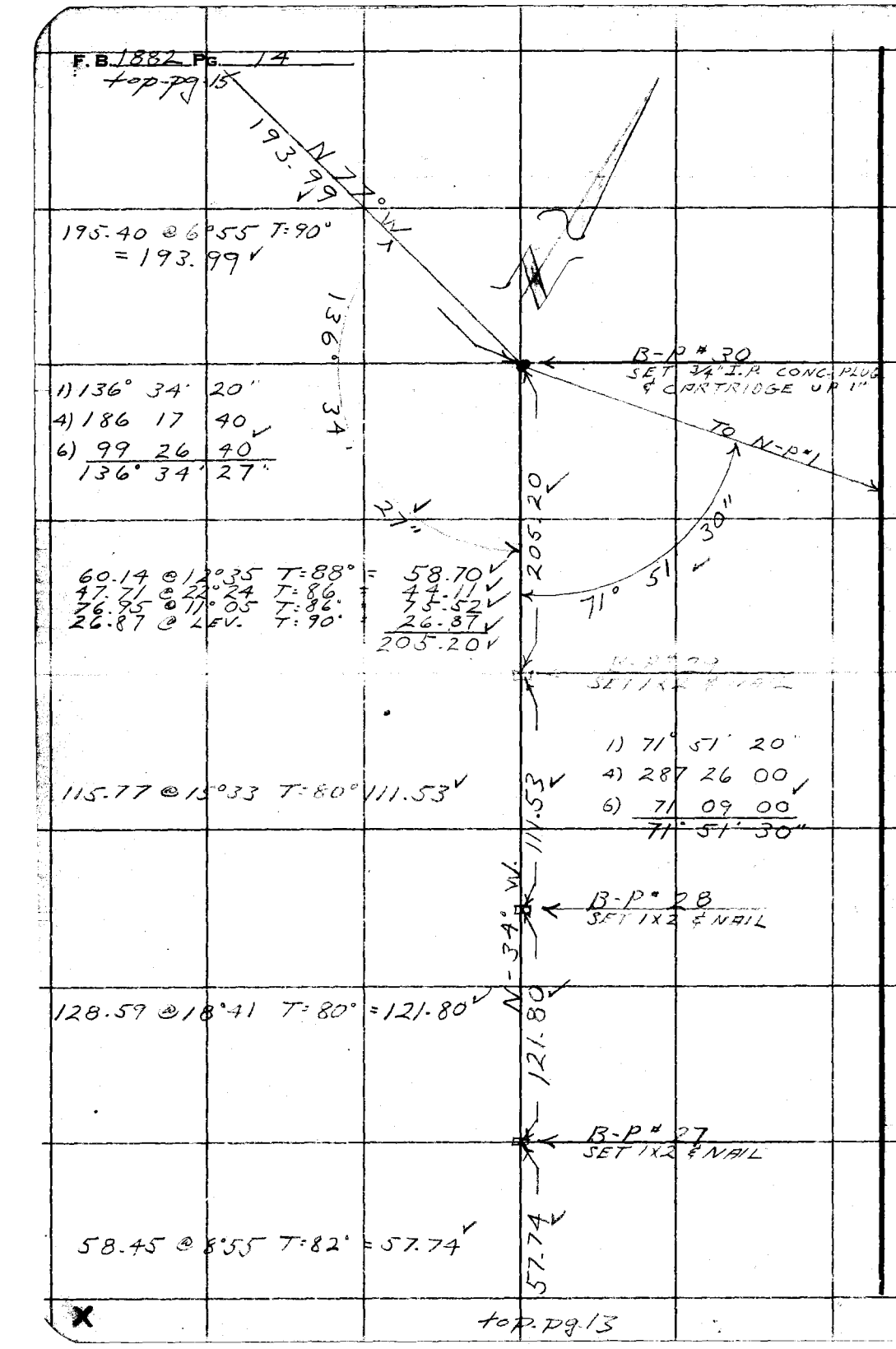
133.07

139.55 @ 17°30' T=66° = 133.07

76F3095 S&E #247. 8-54

F. B. 1882 Pg. 14

top-pg 15



top-pg 13

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F. B. _____ PG. _____

Map No. _____
Office Work _____
Checked _____
Date _____

W. O. [illegible] Tape No. 129 St'd. [illegible] °F
Surveyed by L. V. SMITH
Notes L. V. S. Date 6-9-55
Indexed [illegible]

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726 LOS ANGELES COUNTY
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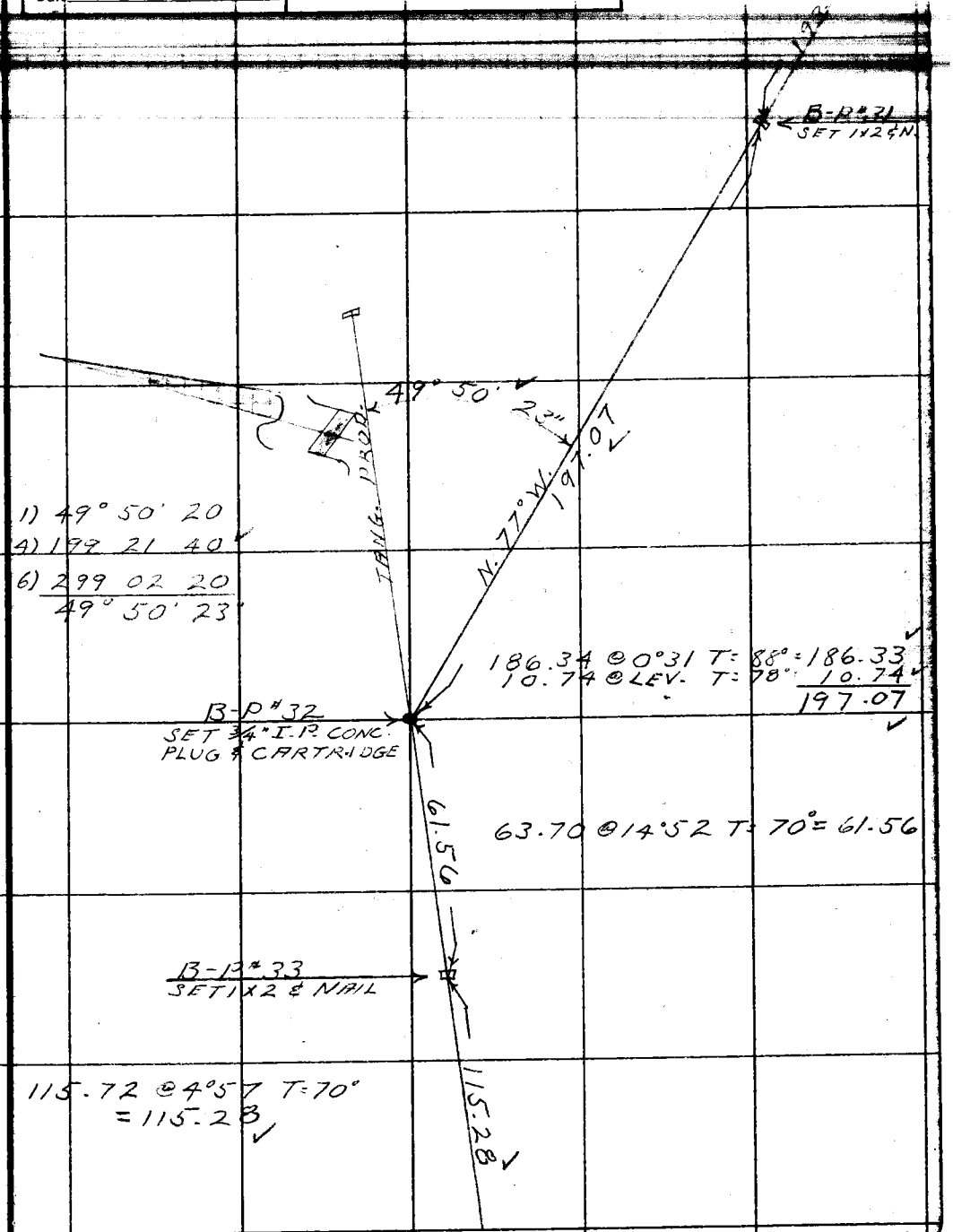
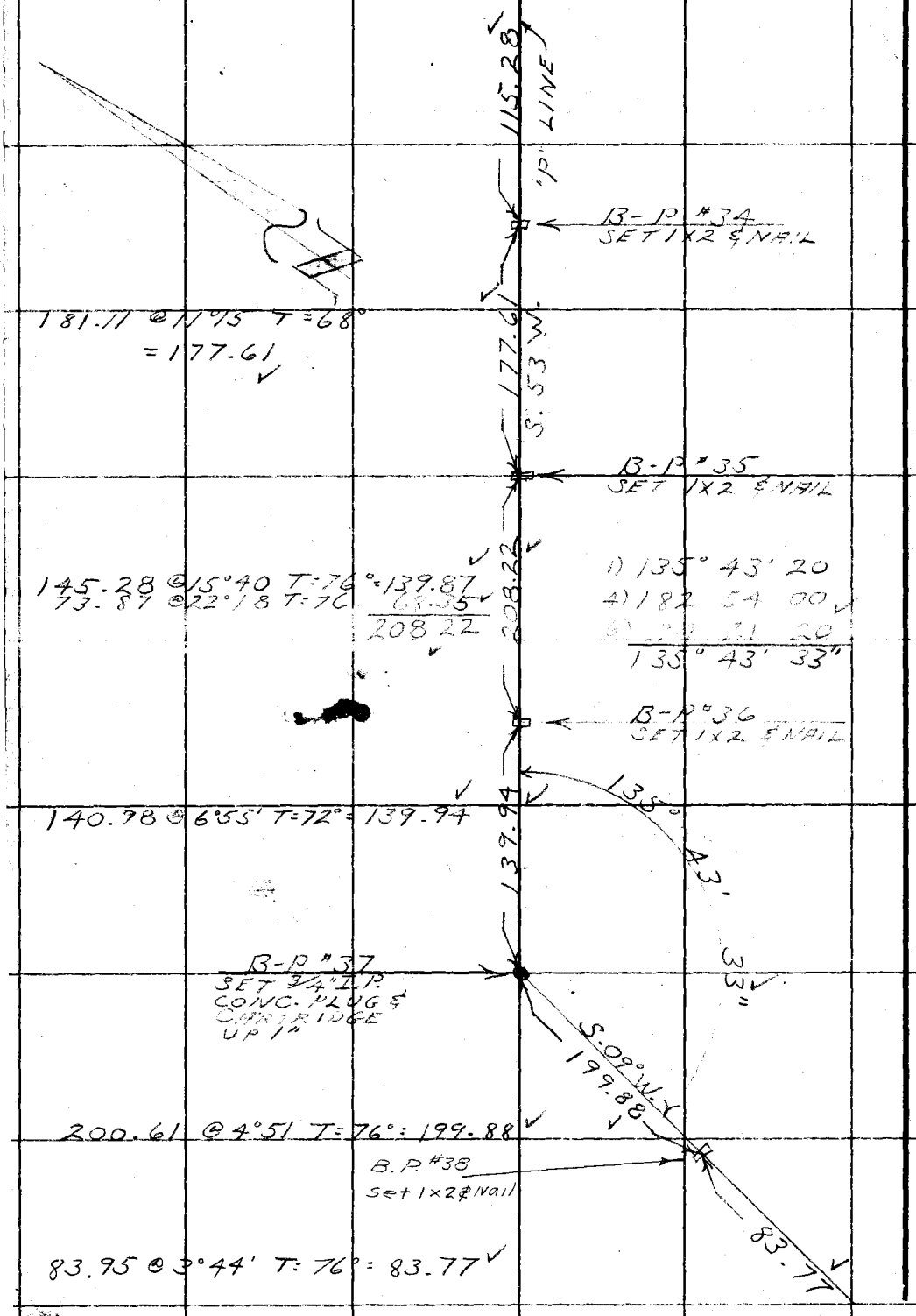


76F309S S&E #247. 8-54

top pg. 16

F.B. 1882 PG. 16

bot pg. 15



top pg 17

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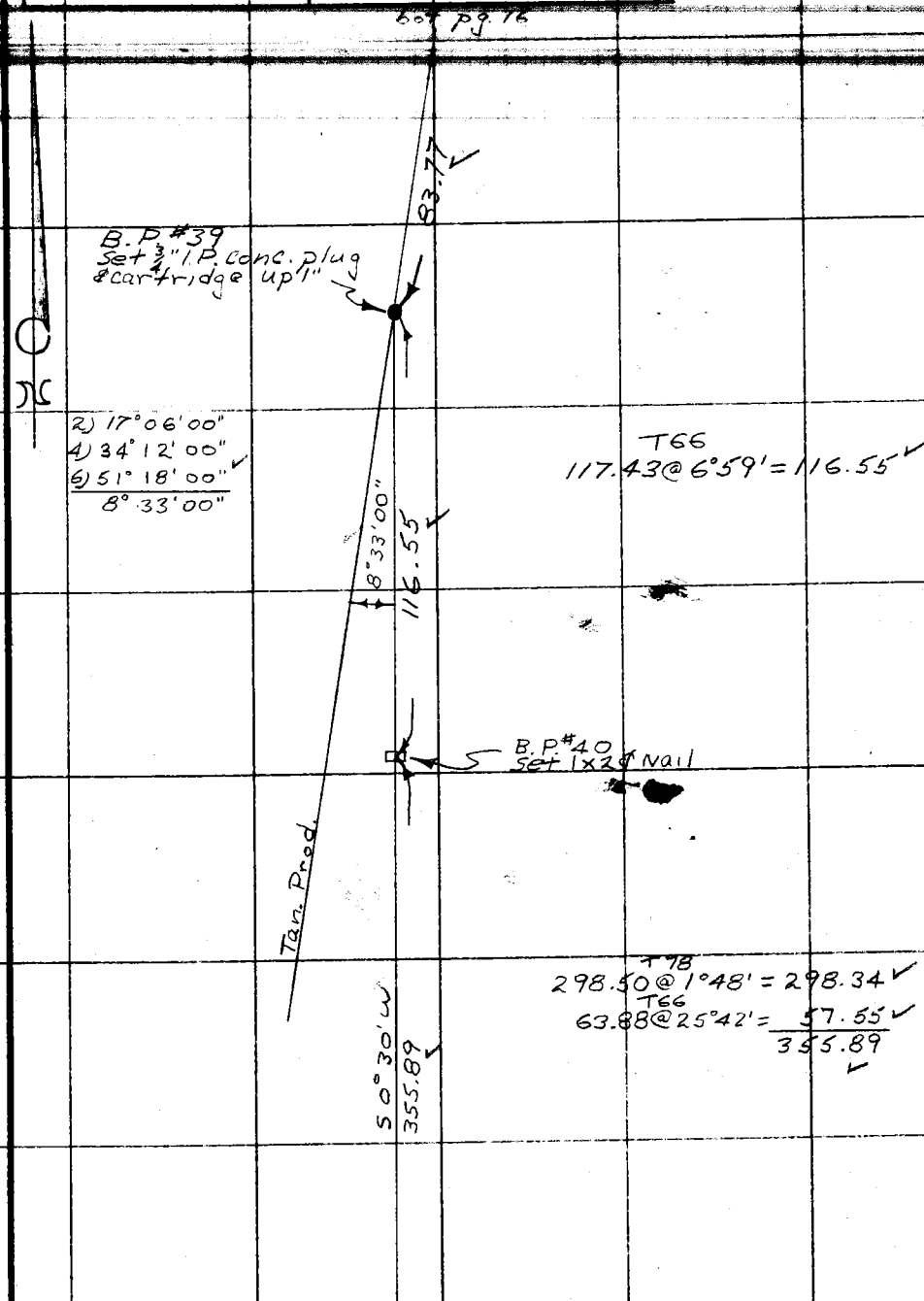
F. B. _____ PG. _____

Map No. _____
Office Work _____
Checked _____
Date _____

W. O. [illegible] Tape No. [illegible] St'd. [illegible] °F
Surveyed by Uharriet
Notes Uharriet Date 6-17-55
Indexed [illegible]



top pg 18

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726 LOS ANGELES COUNTY
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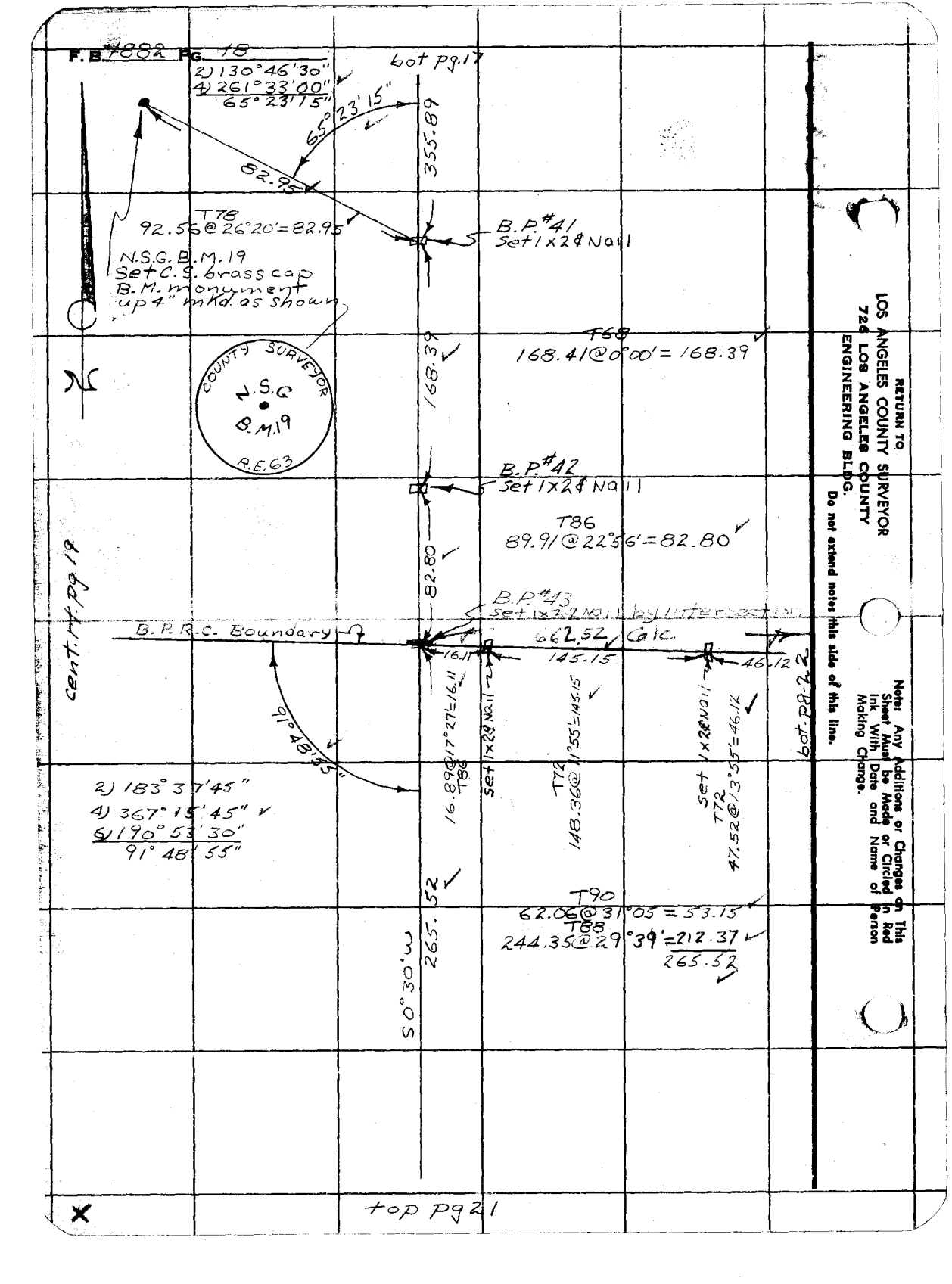
76F309S S&E #247. 8-54

F. B. 7882 Pg. 18



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724 LOS ANGELES COUNTY
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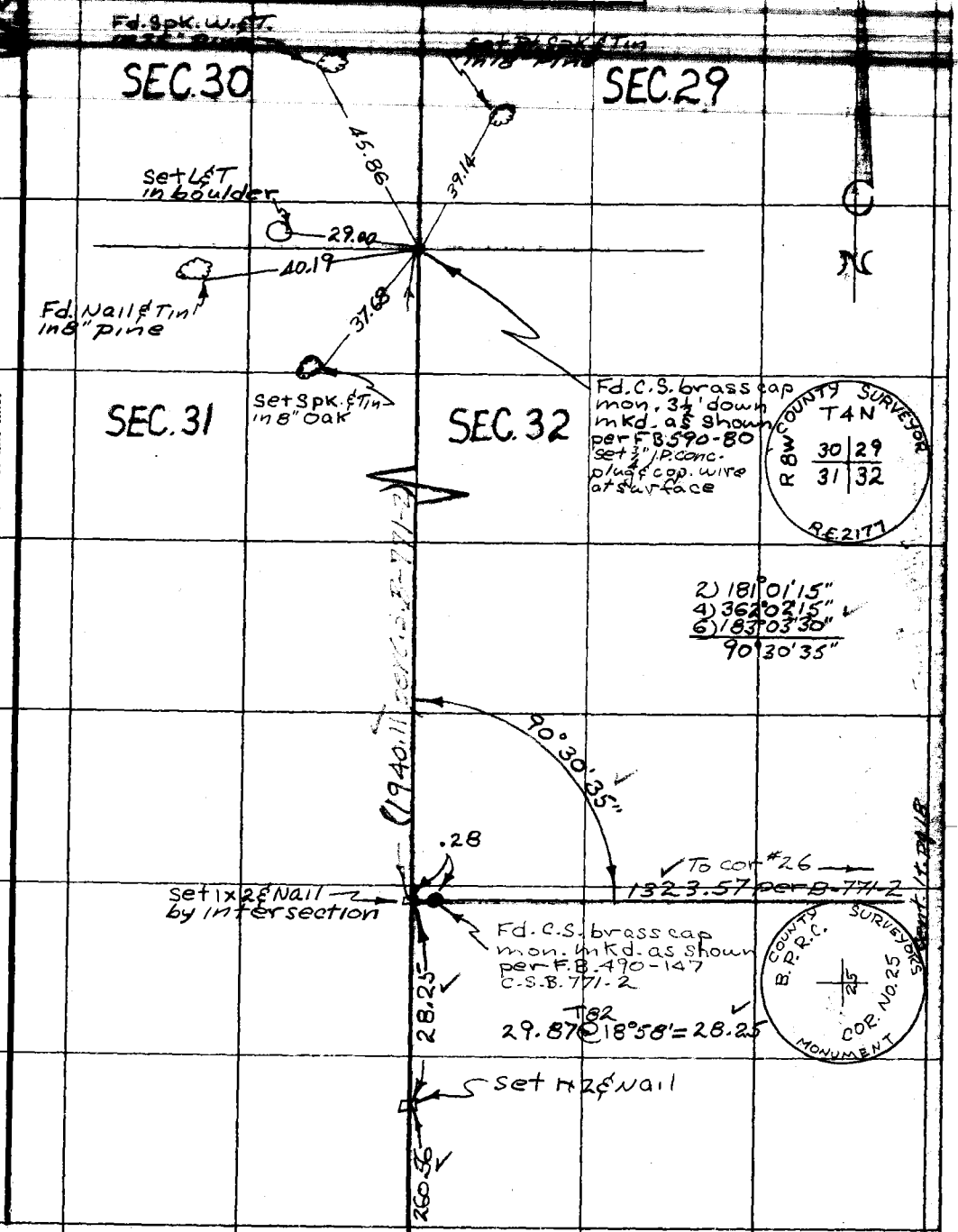
F. B. [illegible] Pg. 17

Map No.
Office Work
Checked
Date

W. O. [illegible] Tape No. 120 St'd. 84 °F
Surveyed by Coates & Uharriet
Notes Uharriet Date 6-20-55
Indexed



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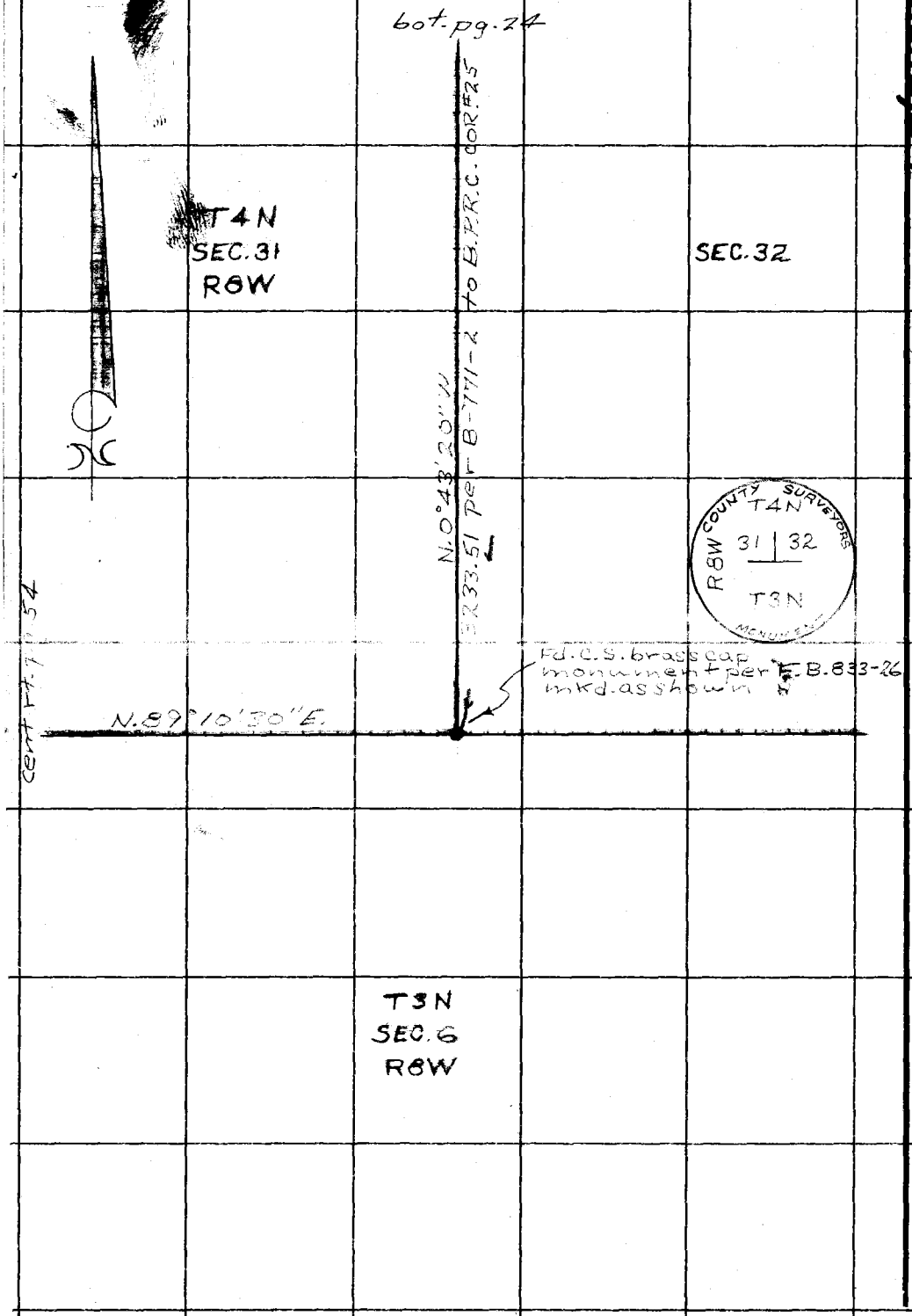
76F3099 S&E #247. 8-54

top pg. 24

F.B. [illegible] PG. 20



W.S. 15, C-1

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F.B. ____ PG. 21

Map No.	W. O. [illegible] Tape No. 120 St'd. [illegible] °F
Office Work	Surveyed by Coates & Uharriet
Checked	Notes Coates Date 6-21-55
Date	Indexed [illegible]

Bot pg. 18

265.5

B.P. #44
Set 1 X 2 & Nail

T84
37.44 @ 32° 53' = 31.44

31.44

00'

18

143°

B.P. #45
Set 3/4" I.P., conc. plug & Cop. wire
up 1"

⊼ @ B.P. #45
[illegible]6.35 @ -14° 18' 40" @ 74° = 161.18
166.58 @ -14° 36' 00" @ 74° = 161.19

① 143° 18' 00"
④ 213° 12' 00"
143° 18' 00"
⑥ 139° 48' 10"
143° 18' 01 2/3"

161.18

B.P. #46
SET 1" X 2" & N

⊼ @ B.P. #46
189.67 @ +11° 22' 00" T 78° = 185.94
189.59 @ +11° 16' 20" T 78° = 185.92

185.94 3

B.P. #47
SET 1" X 2" & N

⊼ @ B.P. #48
61.09 @ -25° 16' 40" T 74° = 55.24
61.20 @ -25° 28' 40" T 74° = 55.25

55.24

To B.P. #48

CONT. TOP PG 23

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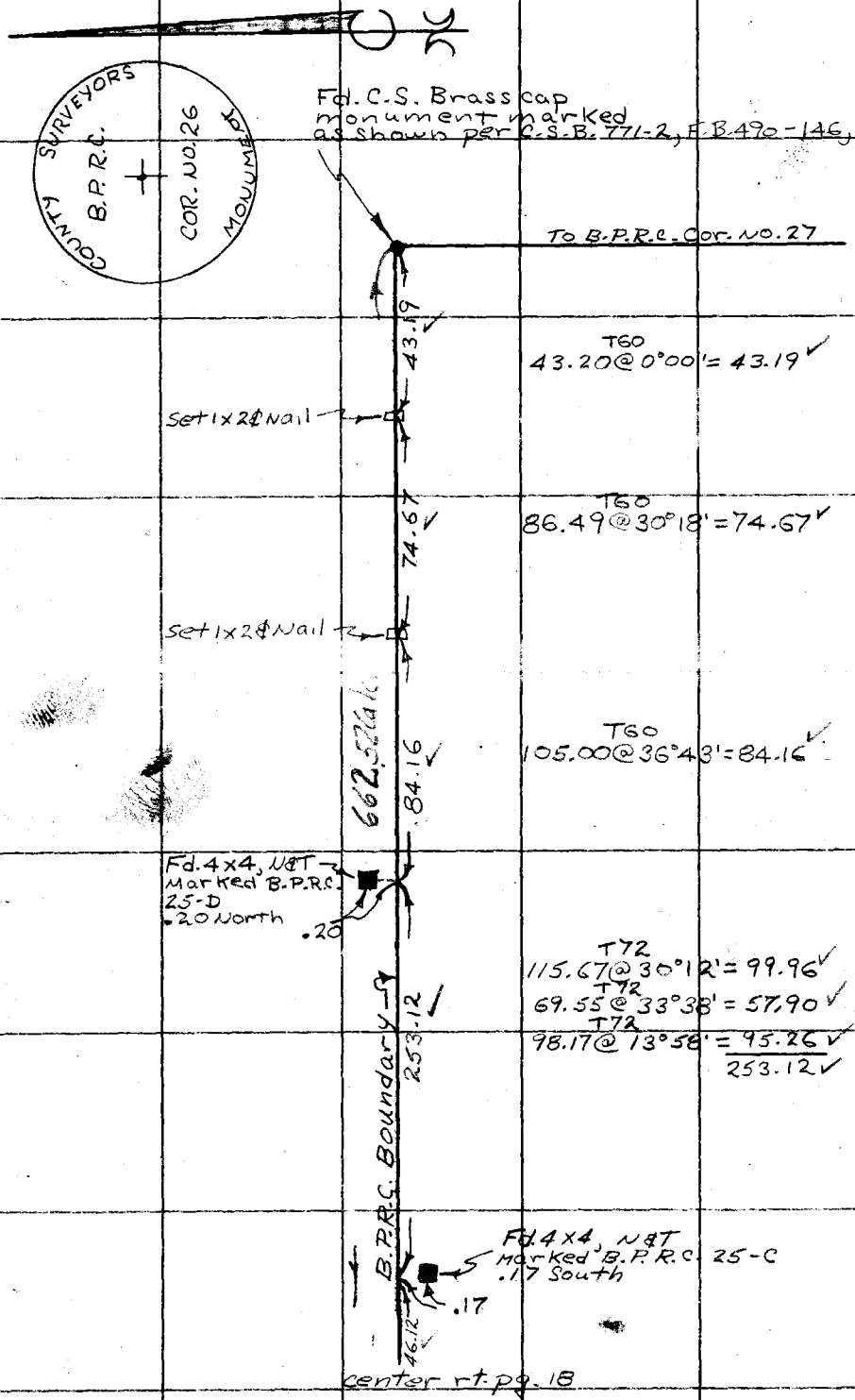
76F309S S&E #247. 8-54

F.B. 1882 PG. 22

W.S. 15 C-1



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Office Work
Checked
Date

W. O. [illegible] Tape No. [illegible] St'd. [illegible] °F
Surveyed by Coates & Uhanriet
Notes [illegible] Date 6-22-55
Indexed A. C. Johnson

CONT FROM BOT PG 21

B.P. #48
SET 1"X2" & N

⊼ @ B.P. #48
248.78 @ +5° 07' 40" T 78° = 247.77 ✓
248.66 @ +4° 51' 00" T 78° = 247.76 ✓

247.76

B.P. #49
SET 3/4" I.P. 2" UP
CONC. Pl. & Tk.

T62
160.92 @ 23° 21' = 147.72 ✓
96.50 @ 24° 37' = 87.72 ✓
57.45 @ 38° 05' = 45.21 ✓
59.87 @ 33° 16' = 50.05 ✓
43.91 @ 22° 16' = 40.63 ✓
371.33 ✓

2) 33° 09' 00"
4) 66° 18' 00"
6) 99° 26' 45" ✓
16° 34' 27"

16° 34' 27"

371.33

Tan. Prod.

bot. rt. pg 24

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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

76F3098 247 4-53

bot. pg. 19

F.B. 1882 PG. 24

260.56

T84
158.30@22°22' = 146.39
T84
121.45@19°56' = 114.17
260.56

Set 1x2" Nail

27.34

T82
27.34@0°00' = 27.34

Set 1x2" Nail

72.56

T70
72.57@0°00' = 72.56

Set N&T in dead tree

bot. pg 25

T74
58.17@0°00' = 58.17
T74
298.65@1°30' = 298.53
356.70

356.90

T70
82.95@20°43' = 77.58
T72
134.73@8°02' = 133.40
T76
40.42@12°00' = 39.54
T84
[illegible] = 144.10
[illegible] = 111.37

SECTION LINE

T82
23.99@0°00' = 23.99
T82
63.12@1°68' = 63.08
T80
101.60@38°17' = 79.75
672.81

672.81

B.P. #52 Set 1x2" Nail
T80
129.24@5°12' = 128.71

128.71

T72
63.22@25°53' = 56.88
133.02@12°06' = 130.05
35.67@36°41' = 28.60
156.50@ 6°32' = 155.47
371.00

2) 103°56'45"
4) 207°53'30"
6) 311°50'15"
51°58'22"

bot. pg 22

51°58'22"

371.33

B.P. #51 Set 3/4" I.P. conc. plug & cop. tk. 2" up

371.00

84°16'05"

1) 42°37'30"
4) 170°30'00"
6) 255°45'10"
42°37'32"

42°37'32"

39°09'19"

2) 168°32'15"
4) 337°04'15"
6) 145°36'30"
84°16'05"

2) 78°18'45"
4) 156°37'15"
39°09'19"

Iron Pipe

117.14

B.P. #50 set 3/4" I.P. conc. plug & copper nail 2" up.

T72
119.34@1°00' = 117.14

N.S.G.S. B.M. #20 Set C.S. brass cap B.M. mon. mkd. as shown 4" up

top pg. 20

COUNTY SURVEYOR
N.S.G.S.
B.M. 20
REG 3

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F. B. _____ PG. _____

Map No. _____
Office Work _____
Checked _____
Date _____

W. O. 9621.1 Tape No. _____ St'd. 54 °F
Surveyed by Coates & Uharriet
Notes Uharriet Date 6-28-55
Indexed _____

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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

1) 173°57'00"
4) 335°48'00"
6) 323°42'00"
173°57'00"

2) 236°26'15"
4) 112°52'15"
6) 349°18'30"
118°13'05"

B.P.#55 set ¾" I.P. conc. plug & cop. tk. 2" up

T74
91.15 @ 0°00' = 91.14

B.P.#54 set N&T in tree trunk.

T74
259.85 @ 13°12' = 252.96

B.P.#53 Set ¾" I.P. conc. plug & cop. tk. 2" up

Bot. 99.26

115.85

91.14

173°57'00"

252.96

118°13'05"

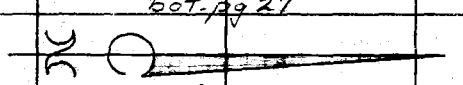
356.70

Lt. pg. 24

76F3095 S&E #247. 8-54

F. B. 1882 Pg. 26

bot. pg 27



T74
173.75@24°04'=158.64

158.64

B. P. #59 Set 1x2 Nail

T76
64.86@17°28'=61.87

61.87

158° 46' 12"

2) 317 32 30"
4) 275°04'45"
6) 232°37'15"
158°46'12"

B.P. #58 Set ¾" I.P. Conc. plug & cap. tk 2" up

259.29

T70
259.42@1°41'=259.29

B.P. #57 Set 1x2 Nail

125.33

T70
129.93@15°16'=125.33

B.P. #56 Set 1x2 Nail

115.85

T68
115.90@ 1°32'= 115.85

cont. lt. pg 25

RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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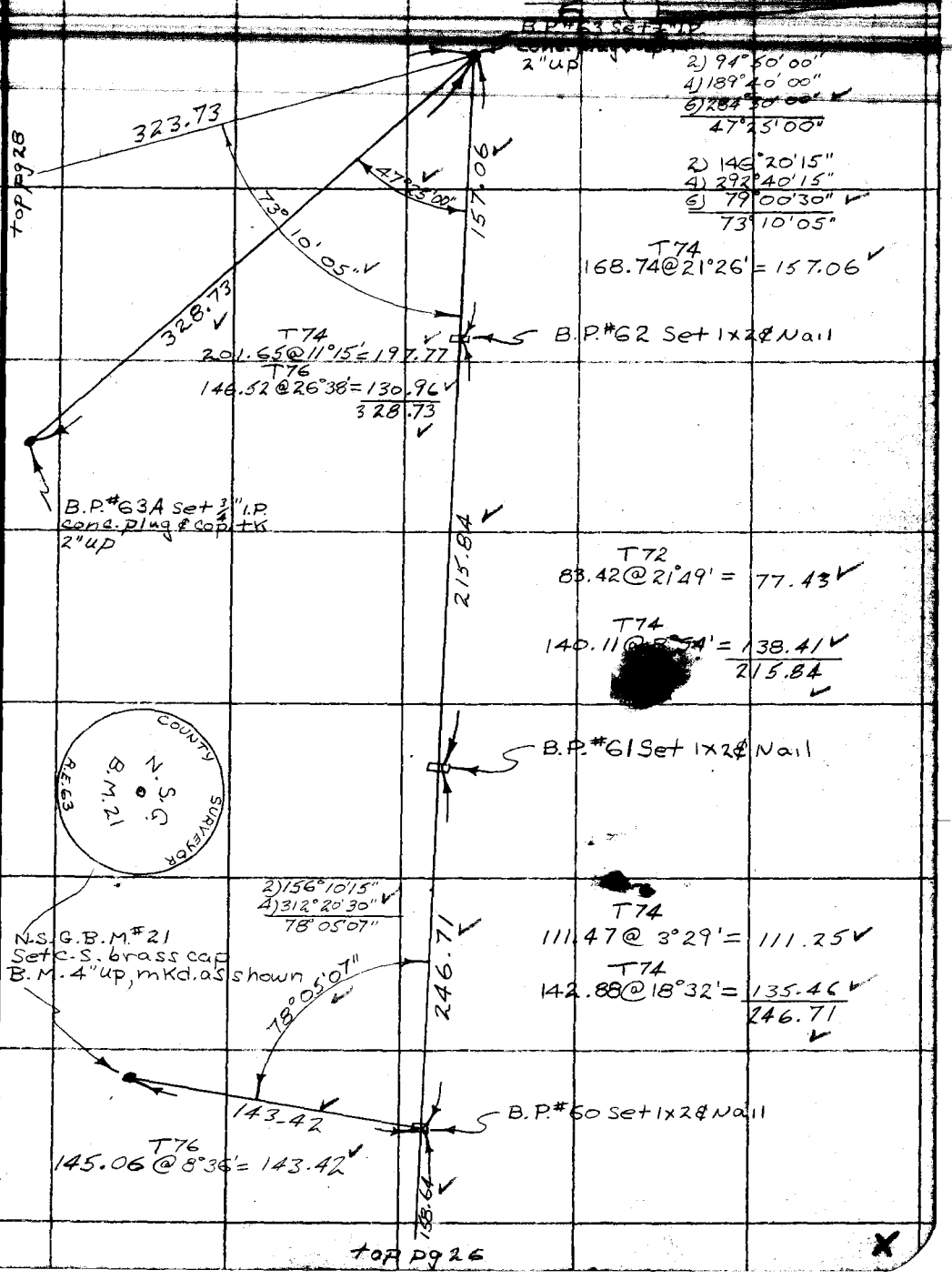
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

F. B. [illegible] Pg. 27

Map No.
Office Work
Checked
Date

W. O. [illegible] Tape No. [illegible] Std. [illegible]
Surveyed by Coates & Uharriet
Notes Uharriet Date 6-28-55
Indexed C. Johnson



Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

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RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

76F309S S&E #247. 8-54

F. B. 1882 PG. 28

top lt. pg 27

T74
78.68 @ 22°55' = 72.46
T68
253.77 @ 8°00' = 251.27
323.73

323.73

B.P. #64 Set 1x2¢ Nail

T60
102.28 @ 8°87' = 101.23

101.28

B.P. #65 Set 1x2¢ Nail

T60
74.96 @ 20°31' = 70.19

70.19

B.P. #66 Set 1x2¢ Nail

T60
99.72 @ 30°57' = 85.50

85.50

B.P. #67 Set 1x2¢ Nail

T74
74.88 @ 26°46' = 66.86

66.86

2) 342°48'15"
4) 325°36'30"
6) 308°24'30"
171°24'05"

171°24'05"

B.P. #68 Set ¾" I.P. conc. Plug & top. tk. 2" up

2) 113°46'15"
4) 227°32'15"
6) 341°18'45"
56°53'07"

56°53'07"

T72
47.69 @ 6°29' = 47.38

47.38

B.P. #69 Set 1x2¢ Nail

106.99

To B.P. #67

bot. rt. pg 31

top. Pg 29

X

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LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.
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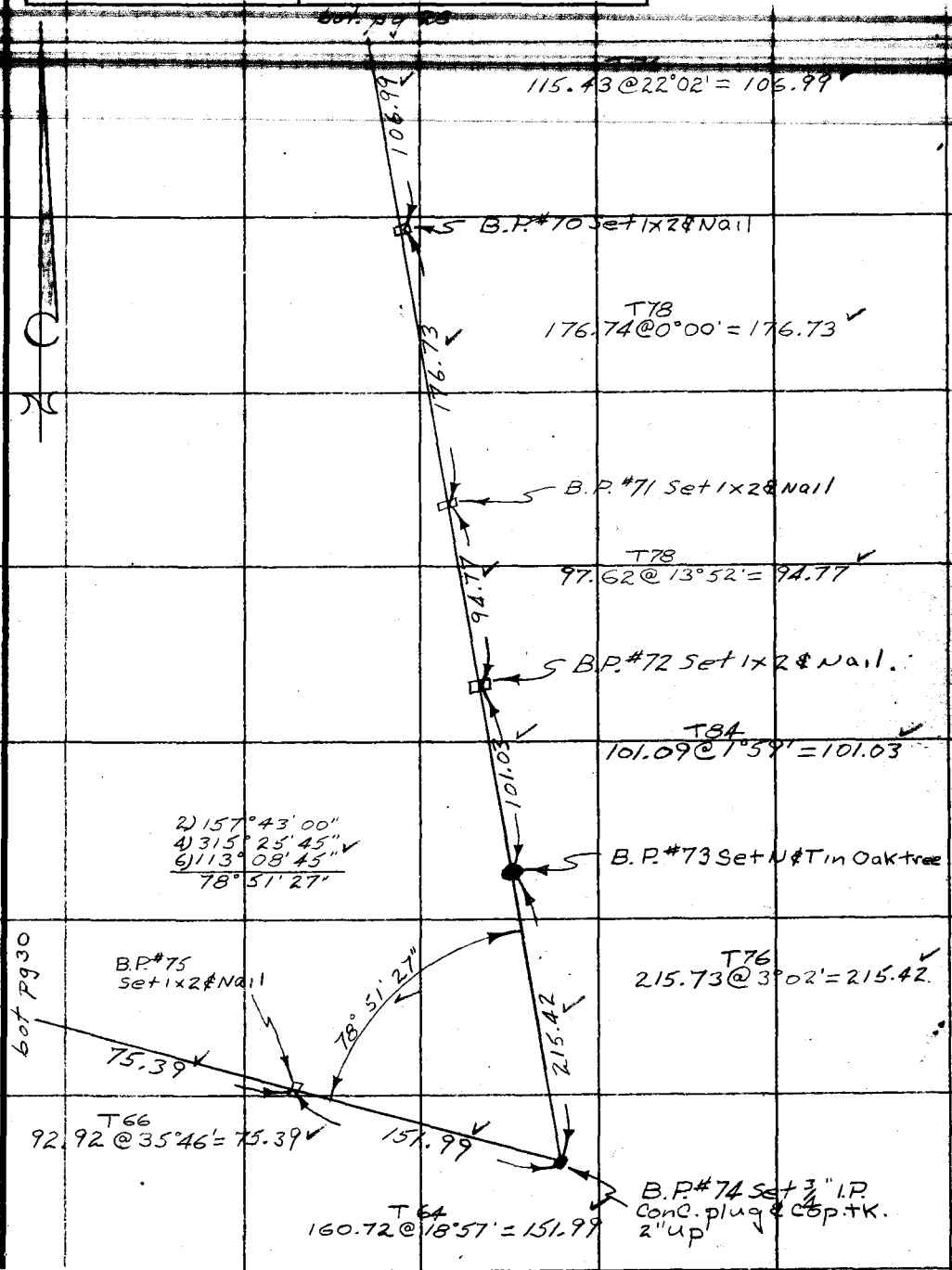
F. B. [illegible] Pg. 29

Map No.
Office Work
Checked
Date

Survey of [illegible]
W. O. [illegible] Map No. [illegible] Sta. [illegible]
Surveyed by Coates & Charriet
Notes Charriet Date 6-30-55
Indexed [illegible] C. Johnson



Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

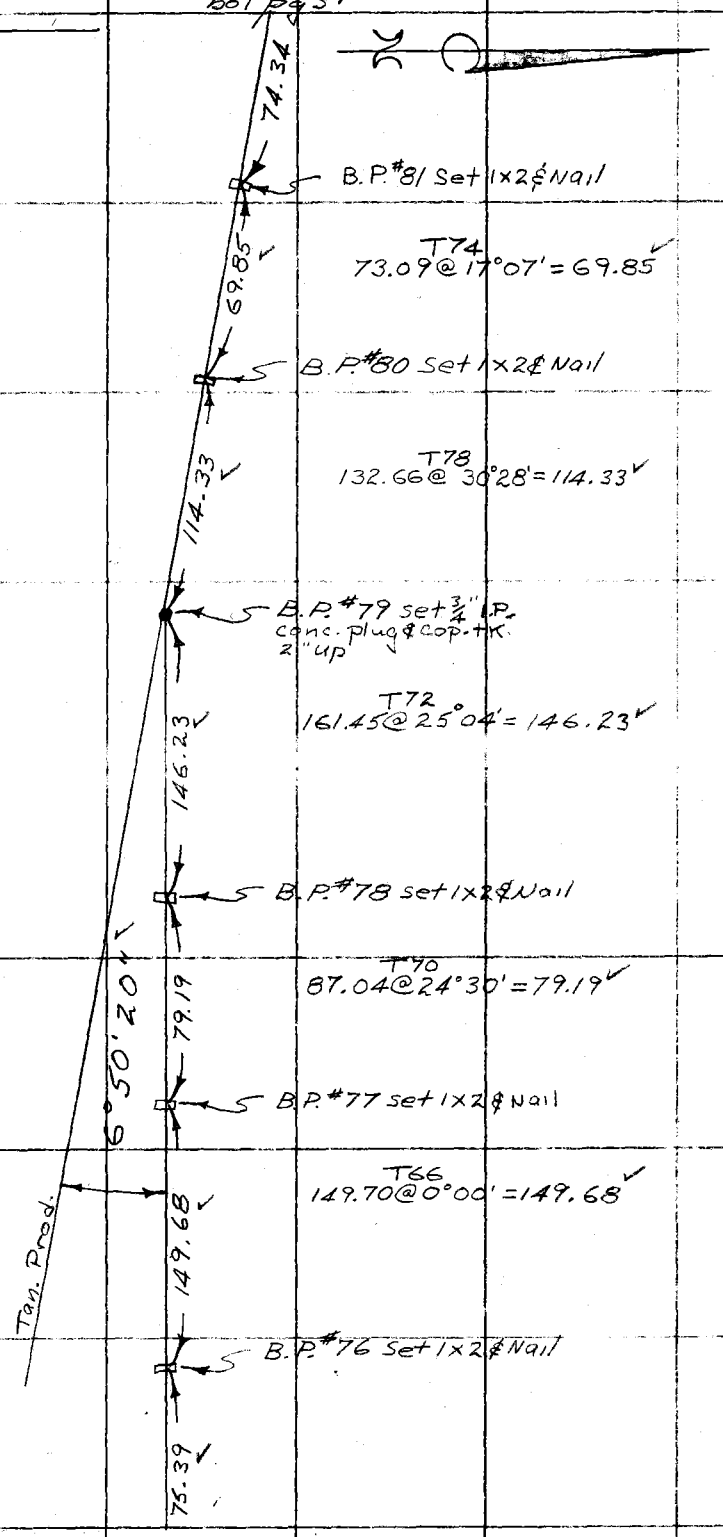
Do not extend notes this side of this line.

RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

76F3095 S&E #247. 8-54

F.B. 1882 PG. 30

bot pg 31



1) 6°50' 20"
4) 27°21' 20"
6) 41°02' 00"
6°50' 20"

RETURN TO
LOS ANGELES COUNTY SURVEYOR
720 LOS ANGELES COUNTY
ENGINEERING BLDG.
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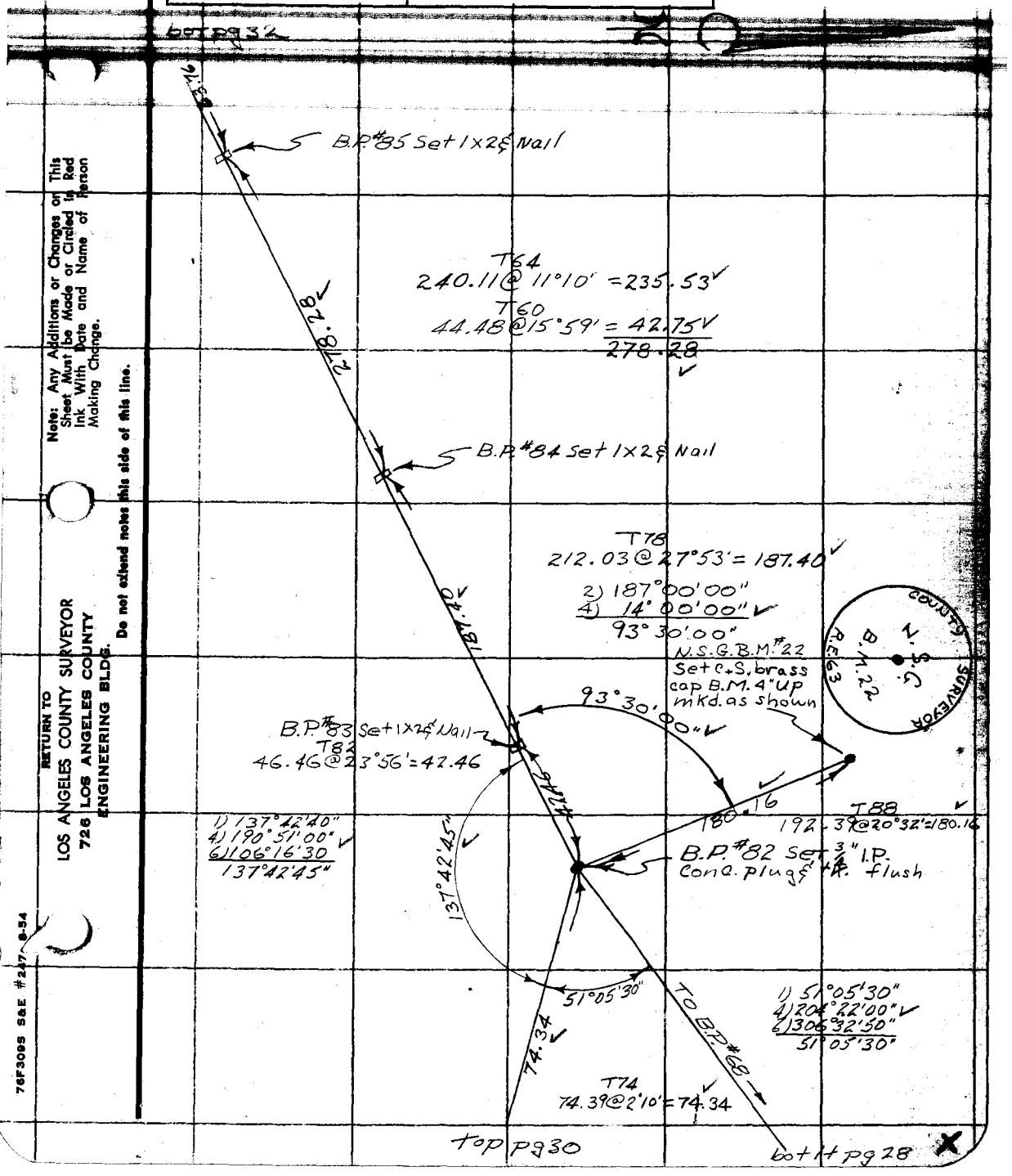
bot. lt. pg. 29

Notes Ch'd by	Survey of [illegible]
Map No.	W. O. [illegible] Type No. [illegible]
Office Work	Surveyed by Coates & Uharriet
Checked	Notes Uharriet Date 7-6-55
Date	Indexed [illegible] Johnson

F. B. 1000 Pg. 31



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RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

76F309S S&E #247 8-54

F.B. 1882 PG. 32

top rt. pg 33

135.59

B.P. #90 Set 1 x 2" Nail

T82
88.54 @ 8°03' = 87.67

87.67

B.P. #89 Set 3/4" I.P. Cons. Plug & Cap. TK. flush

T72
22.82 @ 0°00' = 22.82

22.82

B.P. #88 Set 1 x 2" Nail

151°50'42"

2) 303°41'30"
4) 247°23'00"
6) 191°04'15"
151°50'42"

T72
46.22 @ 24°21' = 42.11

T72
98.23 @ 34°43' = 80.73
122.84

122.84

B.P. #87 Set 1 x 2" Nail

282.86

T70
300.35 @ 19°38' = 282.86

160°17'45"

2) 320°35'30"
4) 281°11'15"
6) 241°46'30"
160°17'45"

B.P. #86 Set 3/4" I.P. cons. plug & cap. TK. flush

63.76

T64
65.36 @ 12°39' = 63.76

top lt. pg 31

X

RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
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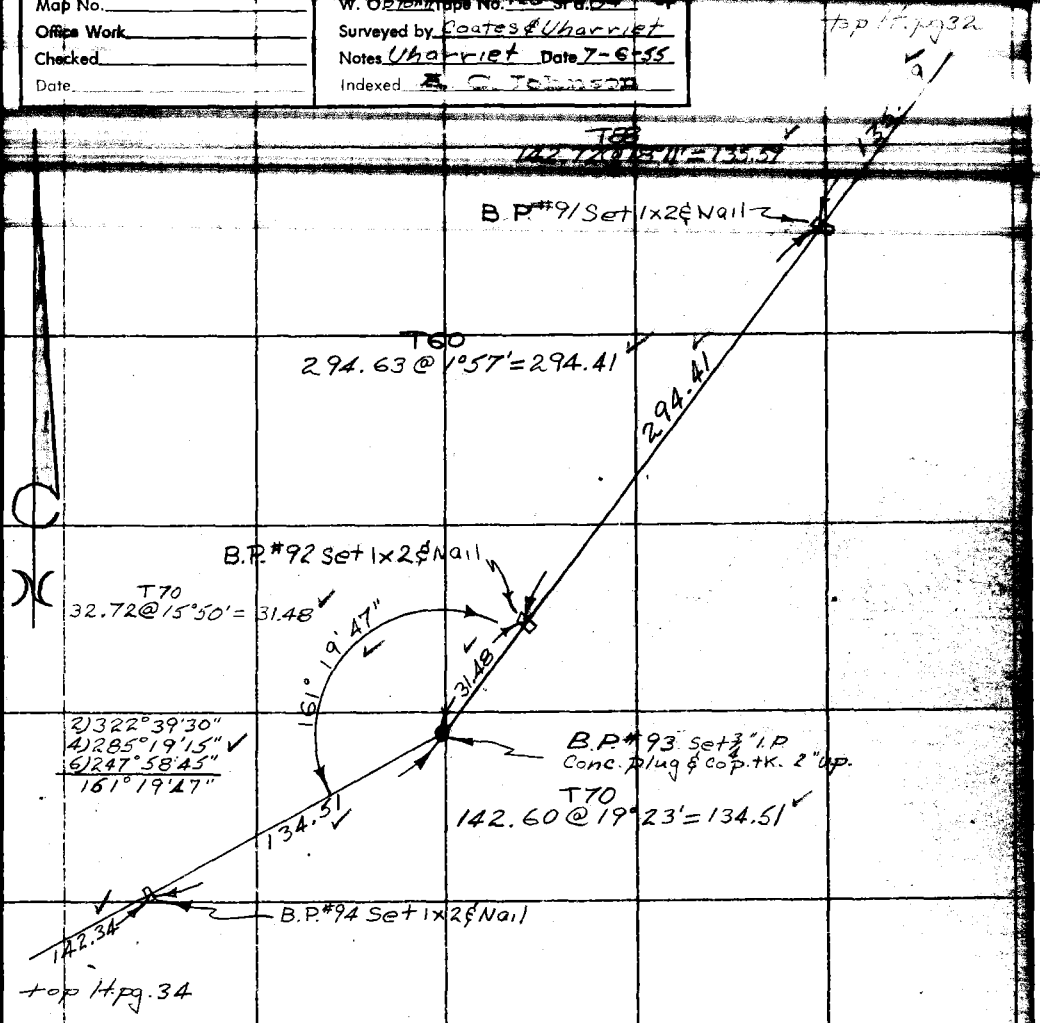
F. B. [illegible] Pg. 33

Map No.
Office Work
Checked
Date

W. O. [illegible] Tape No. [illegible]
Surveyed by Coates & Uharriet
Notes Uharriet Date 7-6-55
Indexed [illegible]



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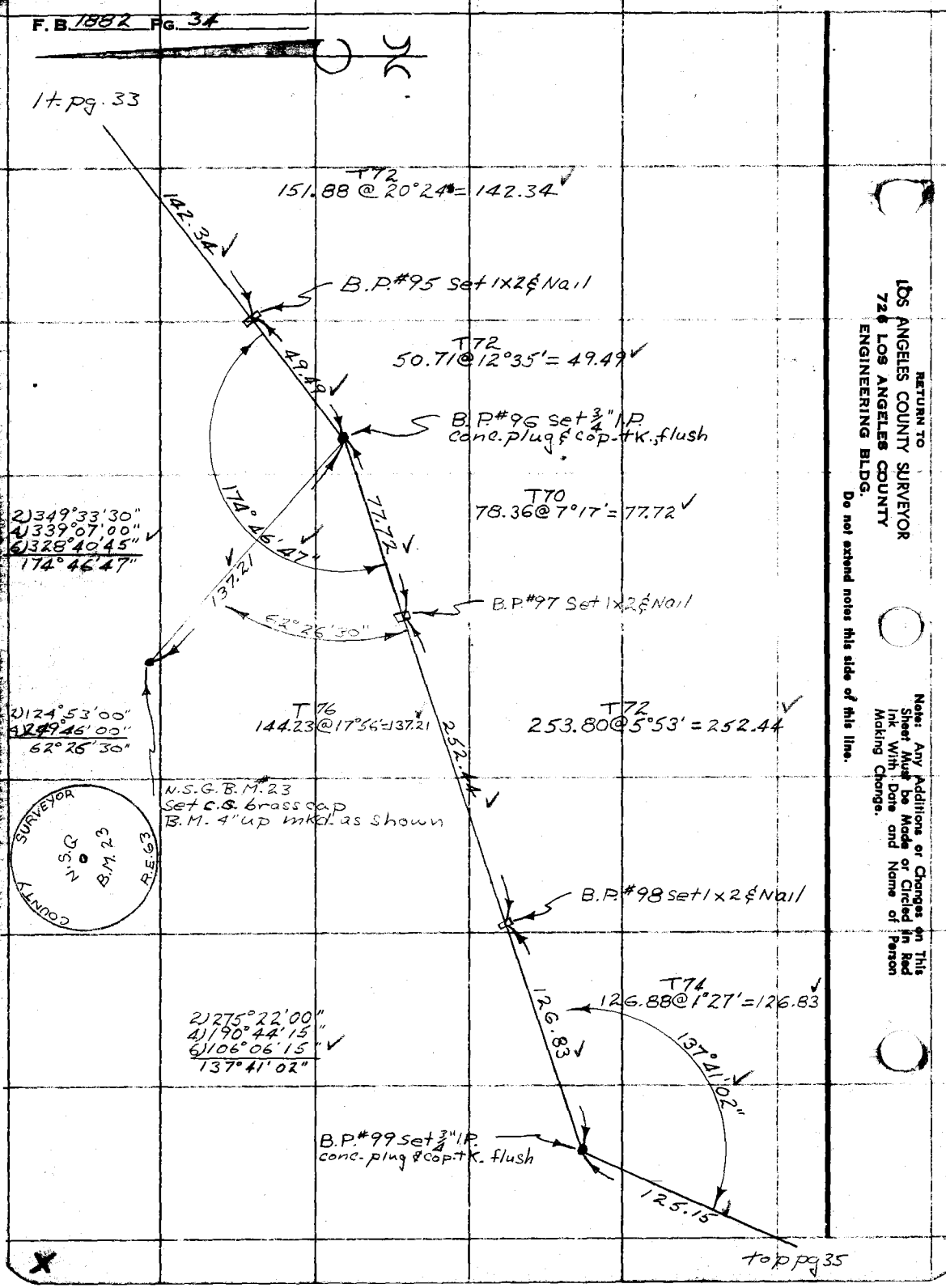
RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

76F309S S&E #247. 8-54

F. B. 1882 Pg. 34



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LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.
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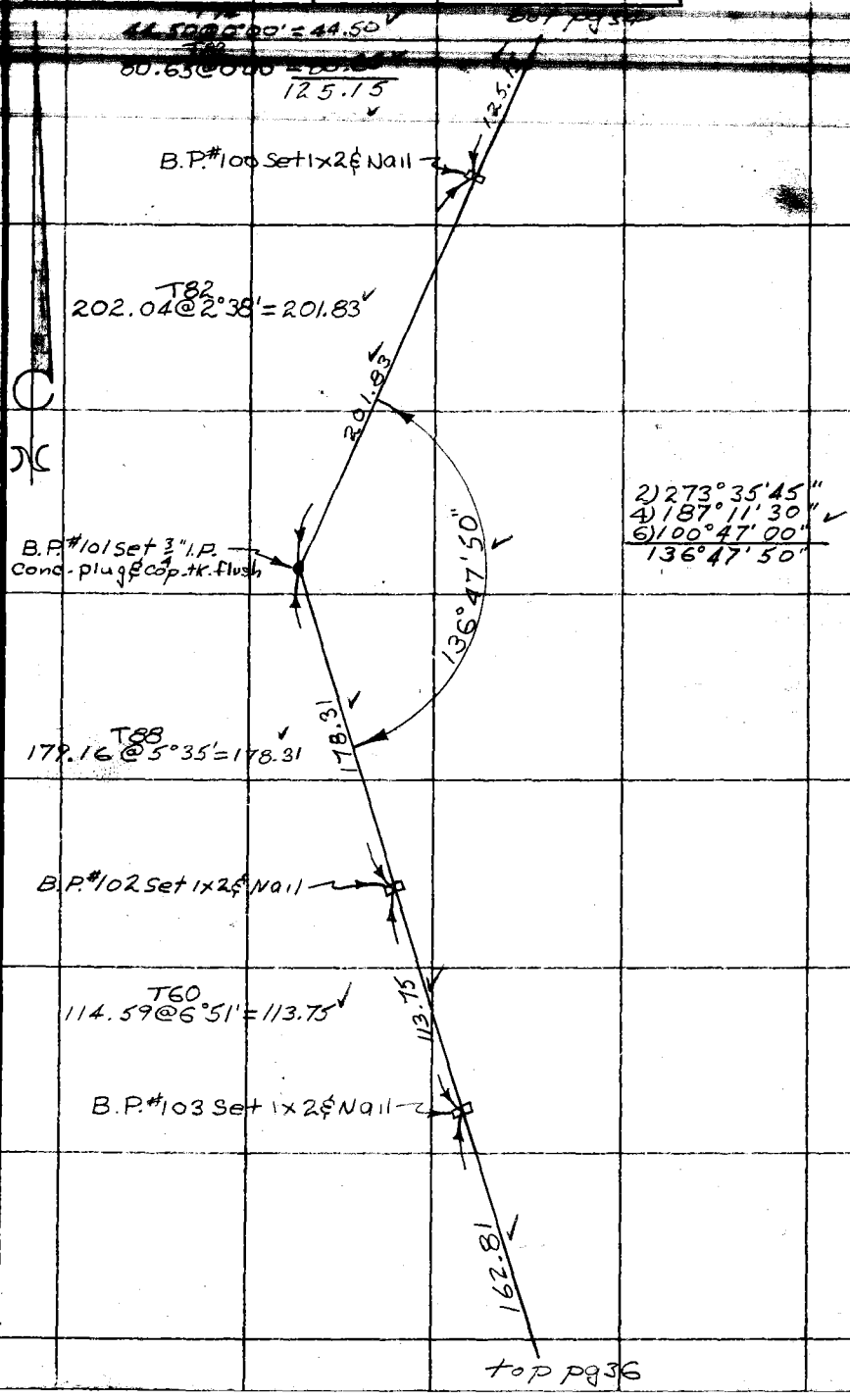
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

F. B. [illegible] Pg. 35

Map No.
Office Work
Checked
Date

W. O. [illegible] Tape No. 726 Std. [illegible] °F
Surveyed by Coates & Uharriet
Notes Uharriet Date 7-7-55
Indexed [illegible] Johnson



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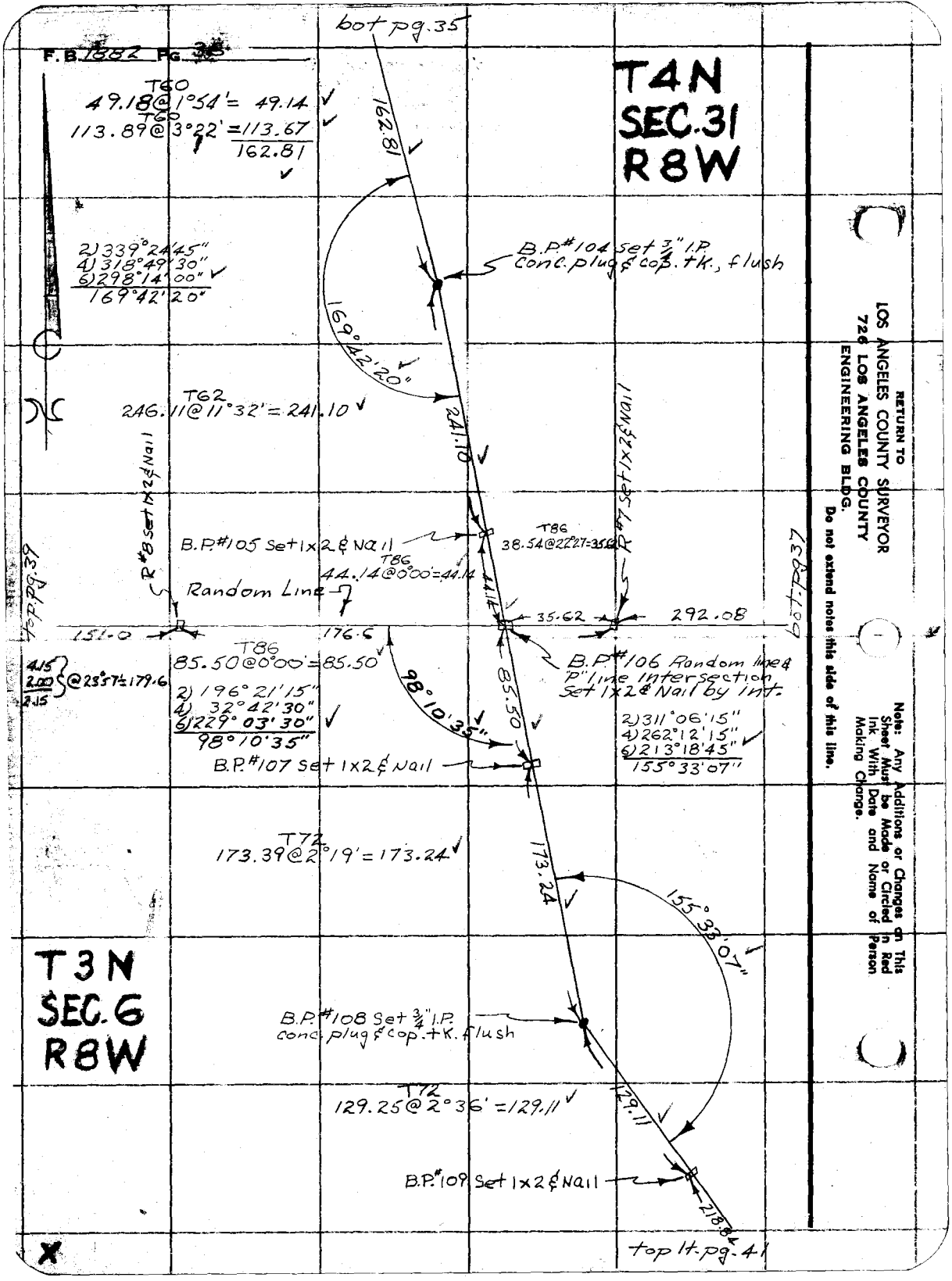
RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

76F3095 S&E #247. 8-54


F.B. 1882 Pg. 38
bot pg. 35
T4N
SEC. 31
R8W
T60
49.18@1°54' = 49.14
T60
113.89@3°22' = 113.67
162.81
162.81
2) 339°24'45"
4) 318°49'30"
6) 298°14'00"
169°42'20"
B.P.#104 Set 3/4" I.P. Conc. plug & cap. tk., flush
169°42'20"
T62
246.11@11°32' = 241.10
241.10
R#8 Set 1x2 & Nail
R#7 Set 1x2 & Nail
B.P.#105 Set 1x2 & Nail
T86
38.54@22°27' = 35.62
T86
44.14@0°00' = 44.14
44.14
Random Line
top pg. 39
bot. pg. 37
151.0
176.6
35.62
292.08
T86
85.50@0°00' = 85.50
4.15
2.00
2.15
@23°57' = 179.6
2) 196°21'15"
4) 32°42'30"
6) 229°03'30"
98°10'35"
98°10'35"
85.50
B.P.#106 Random line & P" line intersection Set 1x2 & Nail by int.
2) 311°06'15"
4) 262°12'15"
6) 213°18'45"
155°33'07"
B.P.#107 Set 1x2 & Nail
T72
173.39@2°19' = 173.24
173.24
155°33'07"
T3N
SEC. 6
R8W
B.P.#108 Set 3/4" I.P. conc. plug & cap. tk. flush
T72
129.25@2°36' = 129.11
129.11
B.P.#109 Set 1x2 & Nail
218.84
top lt. pg. 41
RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.
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F. B. 1852 PG. 37

Map No.
Office Work
Checked
Date

W. O. [illegible] Tape No. 126 Std. [illegible]
Surveyed by Coates & Uharriet
Notes Uharriet Date 7-7-55
Indexed

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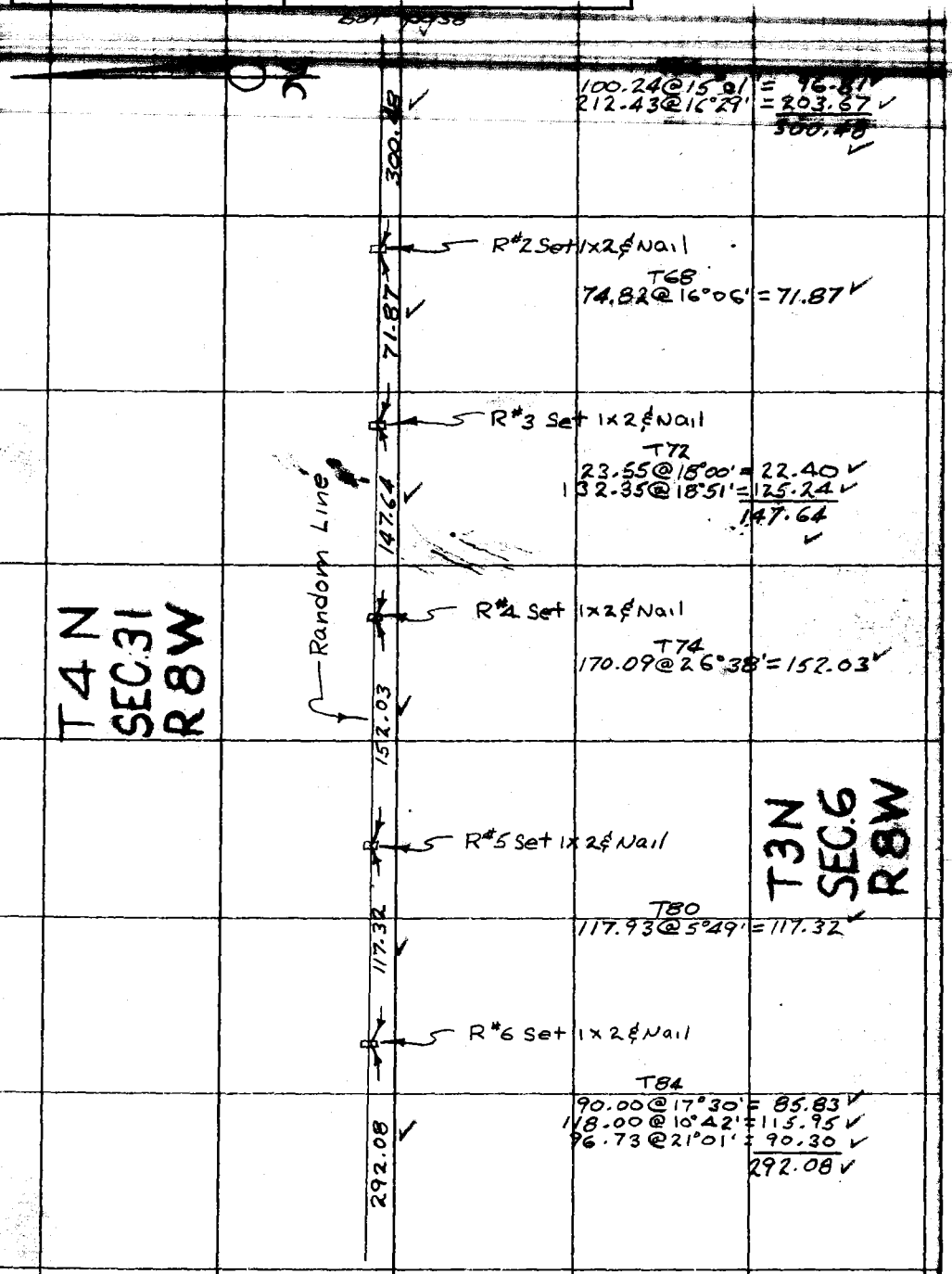
RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

76F309S S&E #247. 8-54



cent. rt. pg. 36

X

F.B. 1882 Pg. 38

cent. lt. pg. 54

W.S. 15, C-1

RETURN TO
LOS ANGELES COUNTY SURVEYOR
72d LOS ANGELES COUNTY
ENGINEERING BLDG.
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Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

T4N
SEC. 31
R8W

T3N
SEC. 6
R8W

True Township Line

1393.60

2) 359°57'15"
4) 359°54'30"
6) 359°52'00"
179°58'40"

179°58'40"

COUNTY SURVEYORS
T.4N.
S.31
1/4 COR.
R.8W.
T.3N.
MONUMENT

1/4 COR.
Fd. C.S. Brass cap mon.
4" up marked as
shown per F.B. 490-88

T60
81.29 @ 13°59' = 78.84
253.97 @ 12°39' = 247.77
326.61

326.61

Random Line

R#1 Set 1x2¢ Nail

300.48

top pg 37

F.B. Pg.

Map No.
Office Work
Checked
Date

W. O. Tape No. St'd. °F
Surveyed by Coates & Uhanniet
Notes Uhanniet Date 7-7-55
Indexed R. C. Johnson

N 6 W
T SE R

cent. lt. pg. 36

151.0

7.60
6.00
1.60 } @ 13°45' = 151.0

R#9 Set 1x2 & Nail

2.68
1.00
1.68 } @ 18°49' = 150.5

150.5

R#10 Set 1x2 & Nail

4.97
4.00
.97 } @ 18°52' = 86.9

86.9

Random Line

T4N
SEC. 31
R8W

R#11 Set 1x2 & Nail

4.08
3.00
1.08 } @ 0°44' = 108.0

108.0

R#12 Set 1x2 & Nail

5.08
4.00
1.08 } @ 26°29' = 86.5

86.5

R#13 Set 1x2 & Nail

4.51
2.00
2.51 } @ 30°46' = 185.4

185.4

R#14 Set 1x2 & Nail

182.2

top pg. 40

X

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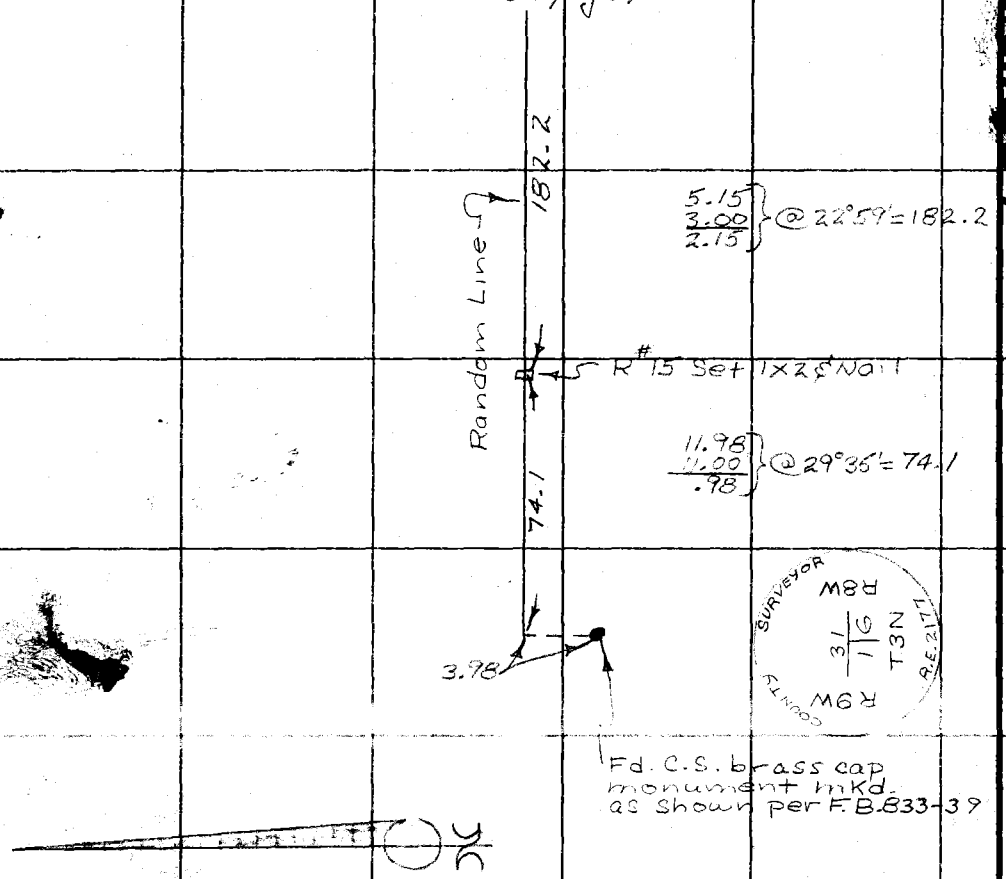
RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

76F3095 S&E #247. 8-54

F.B. 1882 PG. 40

bot pg 39



W.S. 15C-1

RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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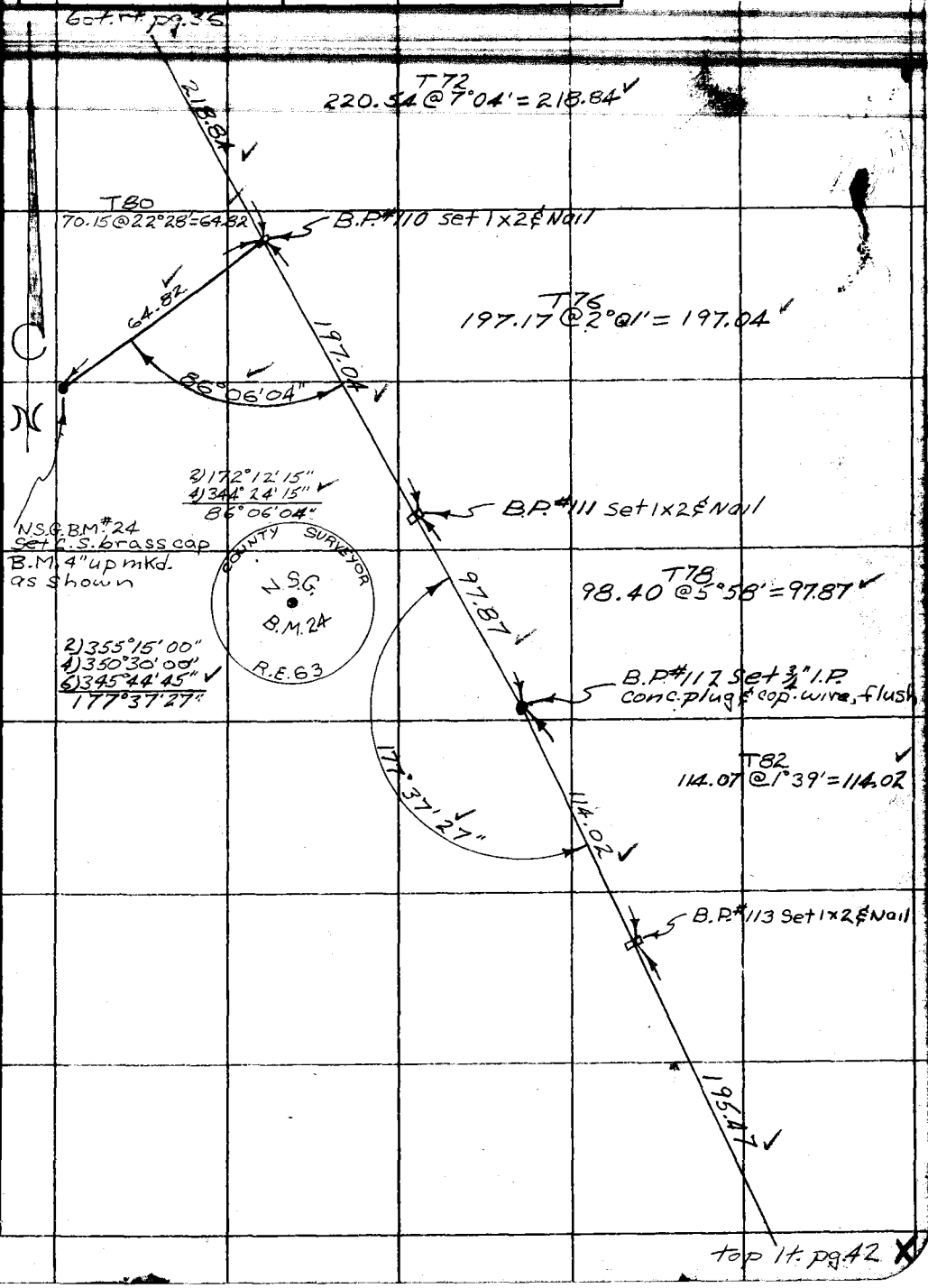
F.B. [illegible] PG. [illegible]

Map No.
Office Work
Checked
Date

W. O. 907.11 Tape No. 120 St'd. 84 °F
Surveyed by Coates & Uharriet
Notes Uharriet Date 7-11-55
Indexed C. Johnson



Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

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RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

76F309S S&E #247. 8-54

F.B. 1882 Pg. 42

bot 1k pg 41

T80
195.51 @ 0°59' = 195.47 ✓

195.47 ✓

B.P. #114 Set 1x2" Nail

T76
146.85 @ 4°19' = 146.42 ✓

NOTE

202.85 @ 4°10	T = 42°	= 202.25
43.90 @ LEV.	T = 42°	43.89
		246.14

CHECK OF DISTANCE BET. B-P 114 & B-P 115
12-9-58 L.V. SMITH

246.14

146.42 ✓

154° 04' 05" ✓

2) 308° 08' 00"
4) 256° 16' 15" ✓
6) 204° 24' 30"
154° 04' 05"

B.P. #115 Set 3/4" I.P. conc. plug & cop. tk. flush

2) 282° 10' 00"
4) 204° 20' 00"
6) 126° 30' 00" ✓
141° 05' 00"

T74
222.08 @ 3°09' = 221.73 ✓

221.73

141° 05' 00"

B.P. #116 Set 1x2" Nail ✓

T76
88.61 @ 3°48' = 88.42 ✓

88.42

B.P. #117 Set 3/4" I.P. Conc. plug & cop. tk. flush

192.16

Bot 43

T76
89.98 @ 21°06' = 83.95 ✓

83.95 ✓

117° 53' 00" ✓

2) 235° 46' 00" ✓
4) 111° 32' 00"
117° 53' 00"

N.S.G.B.M. #25
Set C.S. brass cap
B.M. 4" up mkd. as shown

COUNTY SURVEYOR
N. S. G.
B.M. 25
R.E. 63

RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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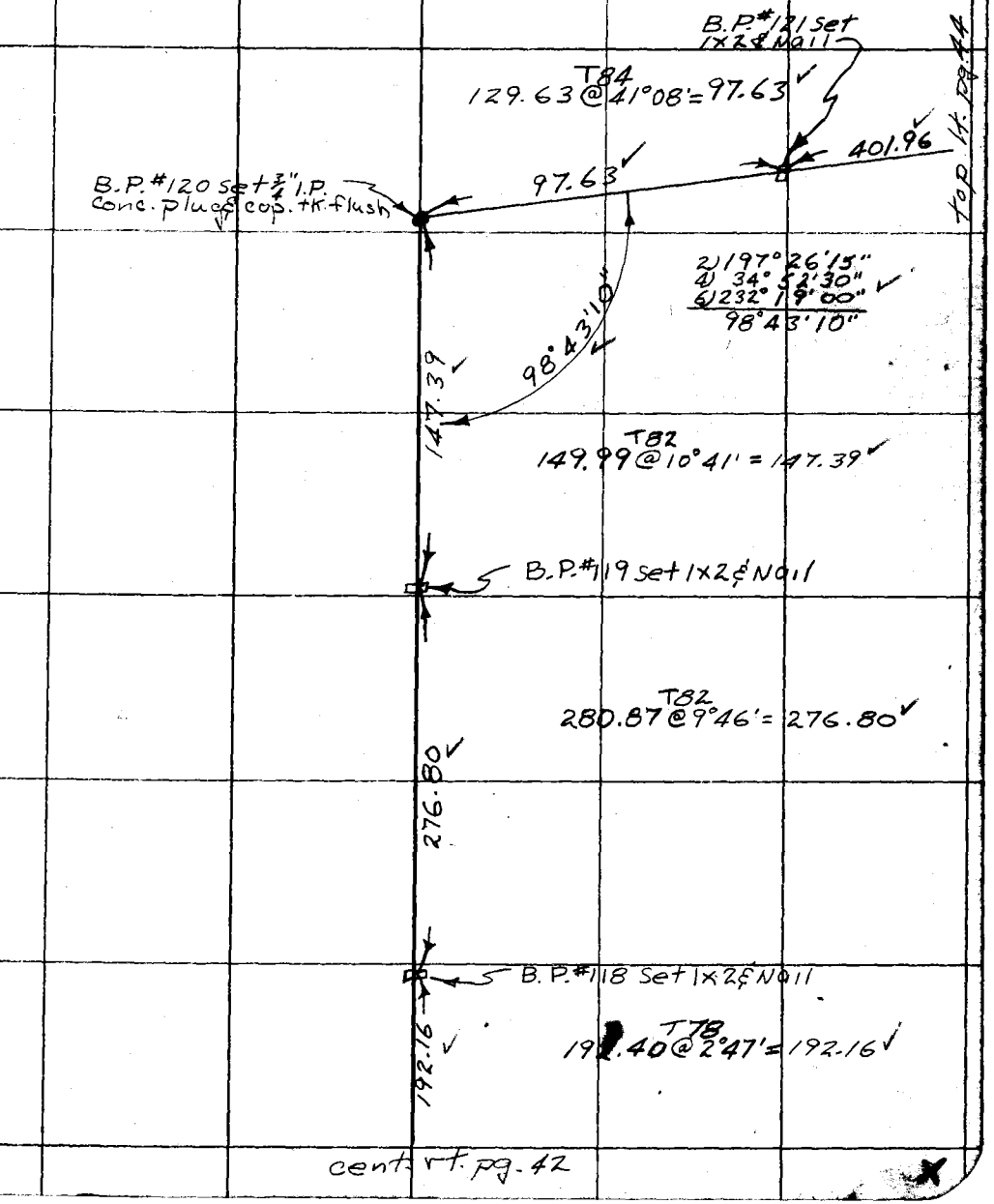
F.B. PG.

Map No.
Office Work
Checked
Date

W. O. Map No. 120 St'd. 54 °F
Surveyed by Coates & Uharriet
Notes Uharriet Date 7-15-55
Indexed C Johnson



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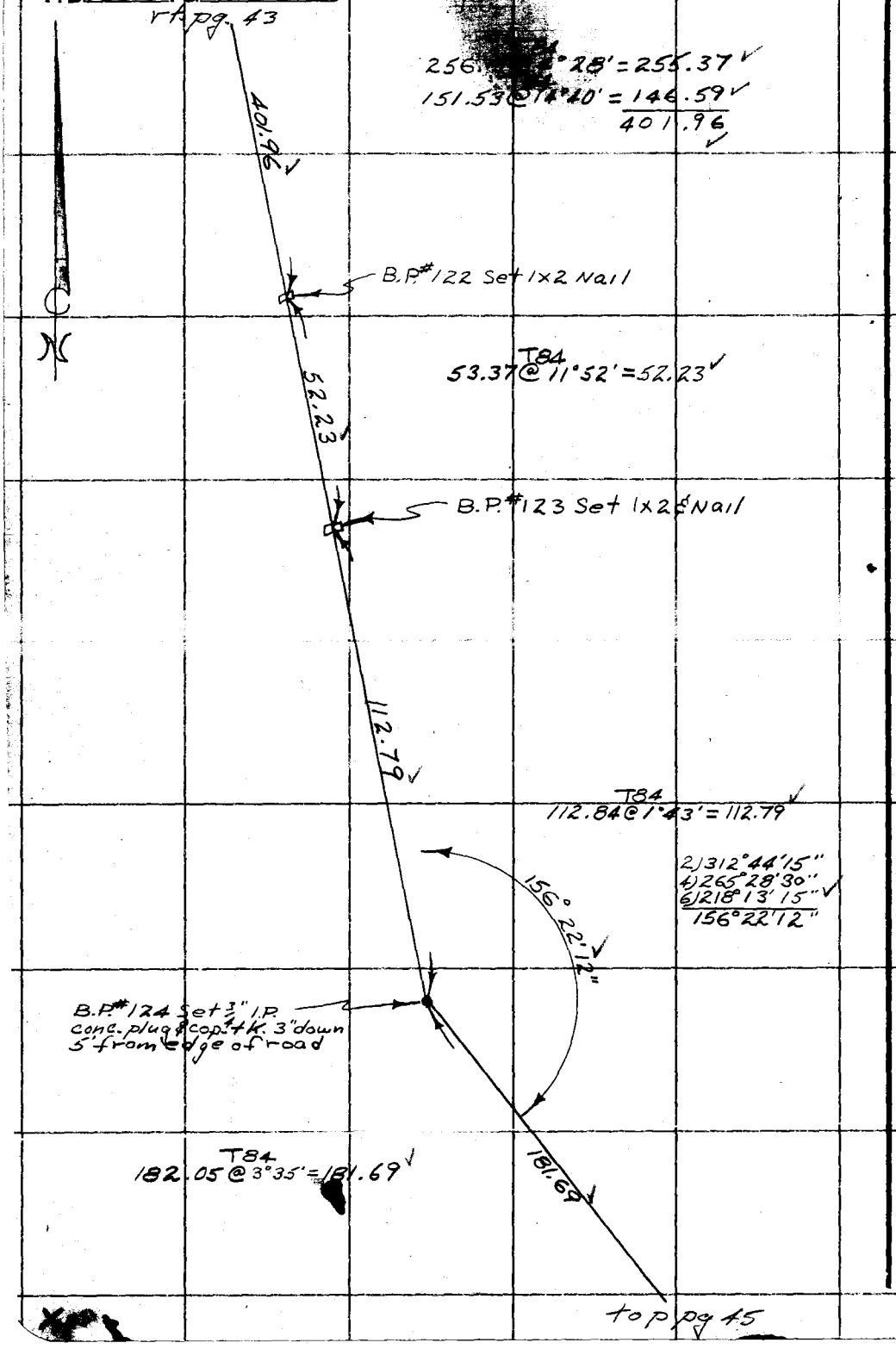
RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

76F309S S&E #247. 8-54

F.B. 1882 PG. 44



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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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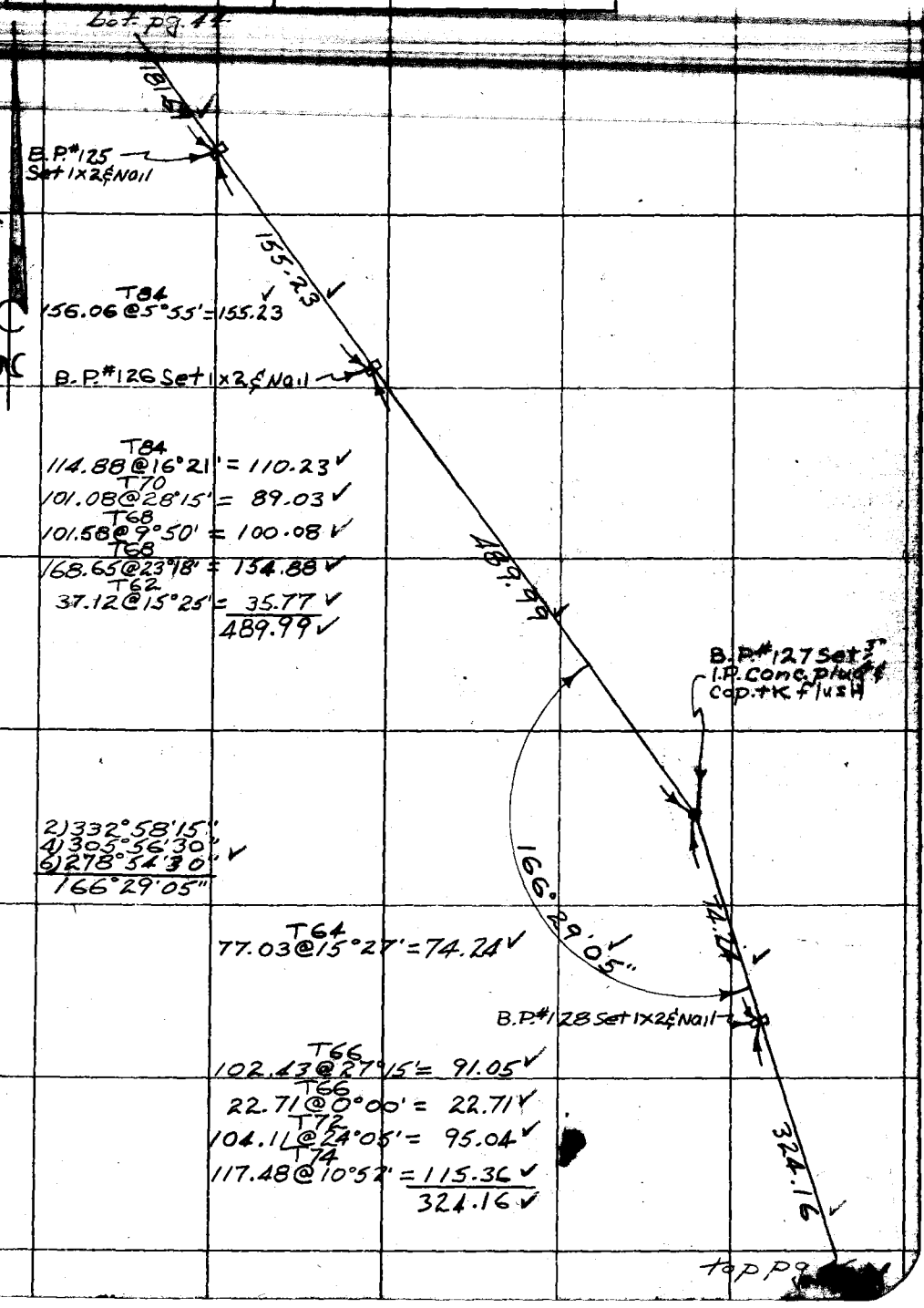
F. B. 1382 Pg. 11

Map No.
Office Work
Checked
Date

W. O. 9701 Tape No. 120 St'd. 84 °F
Surveyed by Coates & Uharriet
Notes Uharriet Date 7-18-55
Indexed E. C. Johnson



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RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

76F309S S&E #247. 8-54

F.B. 1882 PG. 46
bot. rt. pg. 45

W.S. 83, A-3

RETURN TO
LOS ANGELES COUNTY SURVEYOR
720 LOS ANGELES COUNTY
ENGINEERING BLDG.

Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Do not extend notes this side of this line.

324.16

B.P. #129
Set 1x2¢ Nail

307.46

T76
296.87@5°42' = 295.38
12.08@0°00' = 12.08
307.46

U.S. GEOLOGICAL SURVEY
IN COOPERATION WITH
LOS ANGELES COUNTY
ELEVATION
ABOVE SEA
R94
1929
$2.50 FINE
FOR DISTURBING THIS MARK

6 593.266'

U.S. 1846
Fd. Bronze tablet in rock
marked as shown

B.P. #130 Set 1x2, N&T

T74
141.58@2°11' = 141.47

T82
18.69@0°00' = 18.69
278.14@0°00' = 278.14
296.83

Set Spk. & Tin

1) 155°53'15"
4) 268°36'45"
155°54'11"

T74
123.25@0°30' = 123.24

B.P. #131 Set ¾" I.P. conc. plug
& cop. tk. Ln. by intersection

141.47

123.24

℄ Angeles Crest Hwy.

296.83

162.06

155°54'11"

1) 101°22'40"
4) 45°30'30"
6) 248°53'00"
101°22'40"

1) 46°44'30"
4) 180°58'30"
46°44'37"

T74
162.07@0°00' = 162.06

118.33 Rec.

112°01'00" Rec.

101°22'40"

46°44'37"

232.29

1) 112°01'00"
4) 88°04'10"
6) 312°06'00"
112°01'00"

T76
17.66@0°00' = 17.66
T76
220.14@12°50 = 214.63
232.29

Fd. 2" I.P. 4" up
Brass cap mkd.
as shown
per 363A D3 line
544-628 pg. 1

B.P. #132
Set 1x2¢ Nail

N.S.G. B.M. #26
Set C.S. brass cap
B.M. 4" up
mkd. as shown

COUNTY SURVEYOR
N.S.G.
B.M. 26
R.E. 63

344.56

16±

6603.16 Feet to Bench
Elevation 541 + 54.52
U.S. Dept. of Agriculture
Bureau of Public Roads
1935

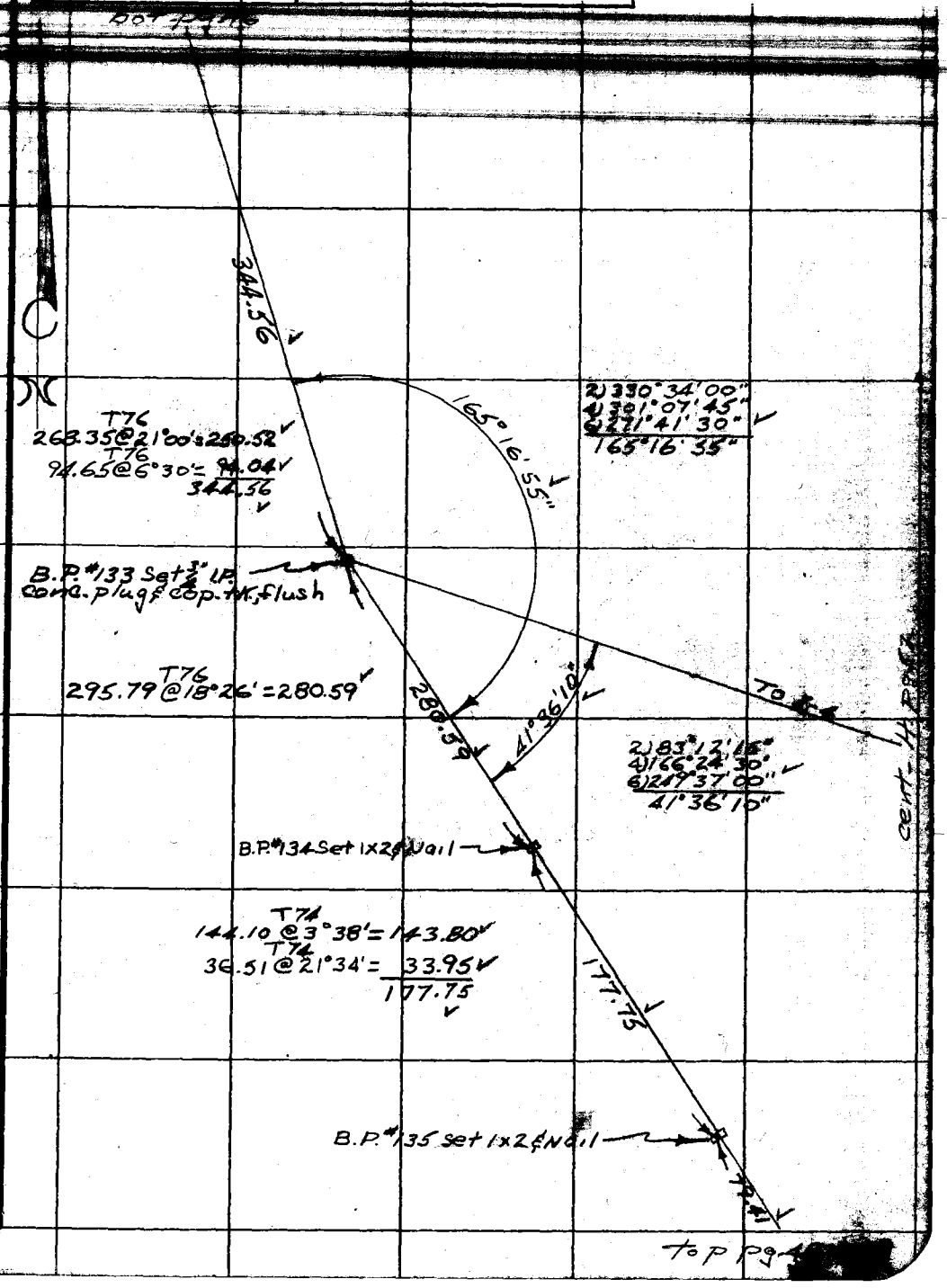
Elevation 541 + 54.525
U.S. Dept. of Agriculture
Bureau of Public Roads
1935

top pg. 47

F. B. 1992 PG. 17

Map No.
Office Work
Checked
Date

W. O. Maps No. 720 Sta.
Surveyed by Coates & Uharriet
Notes Uharriet Date 7-20-55
Indexed



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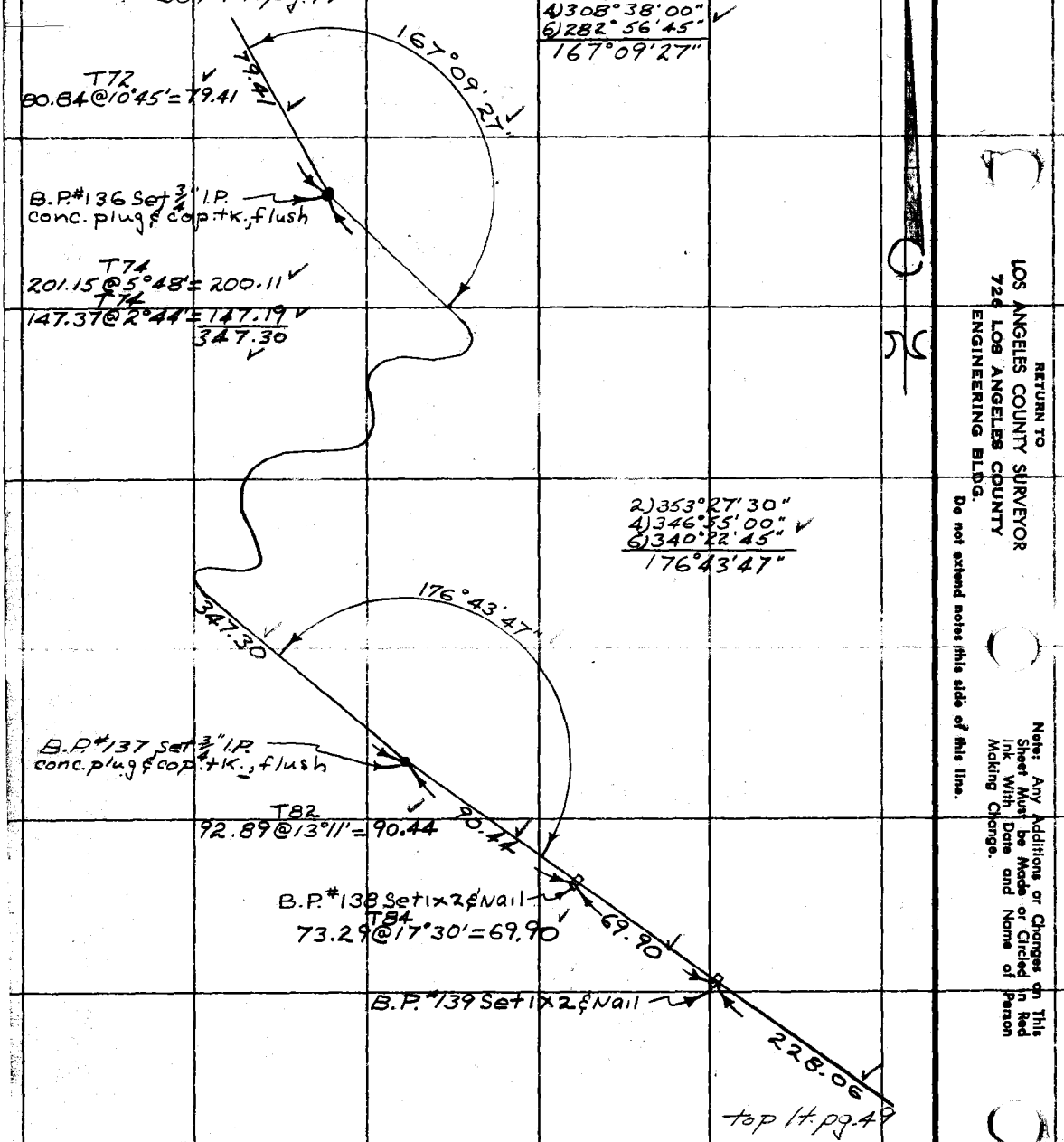
RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

76F3095 S&E #247. 8-54

F.B. 1882 PG. 48

bot rt. pg. 47



top lt. pg. 49

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LOS ANGELES COUNTY SURVEYOR
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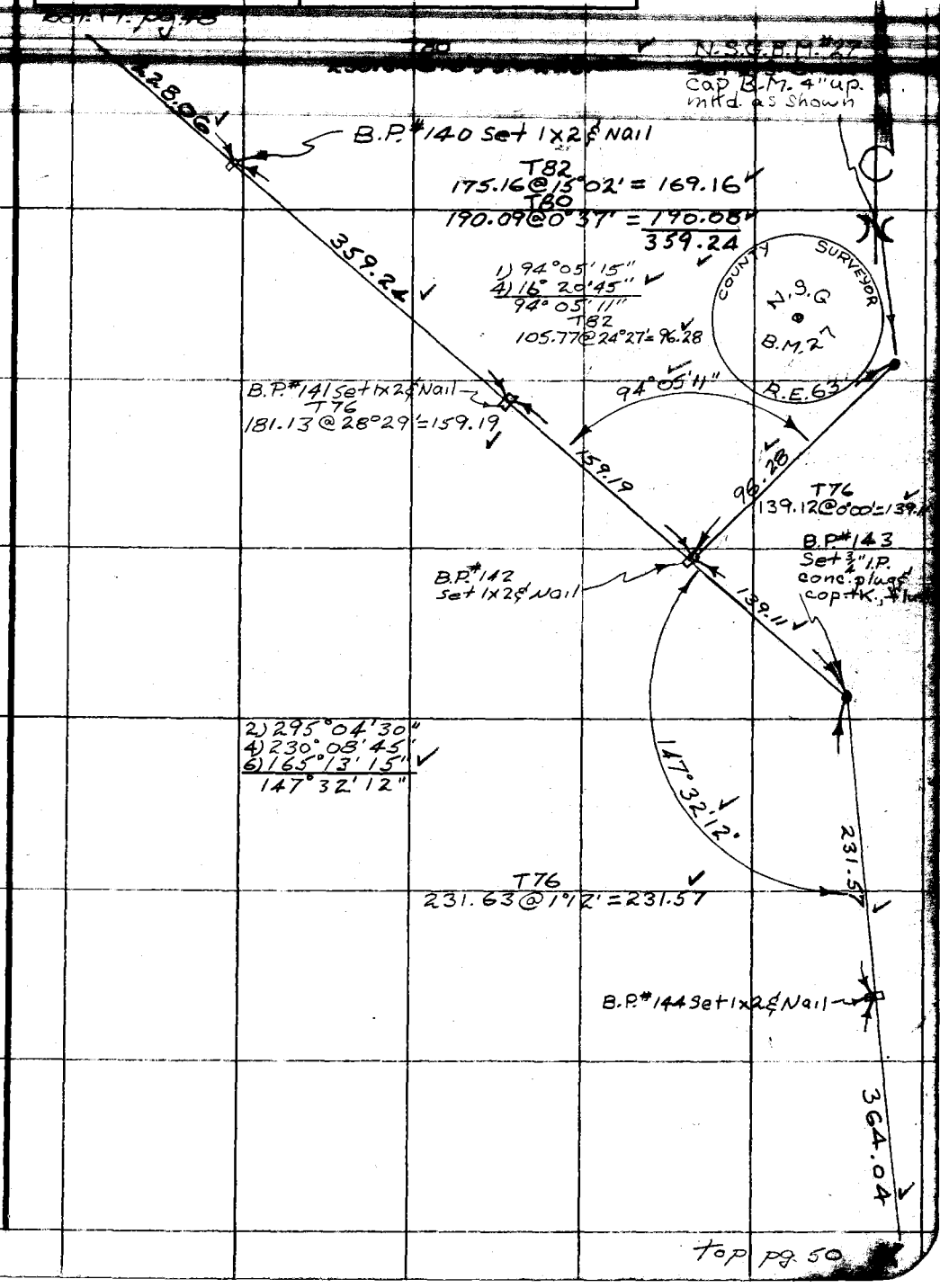
F.B. 1882 Pg. 49

Map No.
Office Work
Checked
Date

W. O. Tape No. 120 Std. 84
Surveyed by Coates & Uharriet
Notes Uharriet Date 7-21-55
Indexed R. C. Johnson



top pg. 50

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726 LOS ANGELES COUNTY
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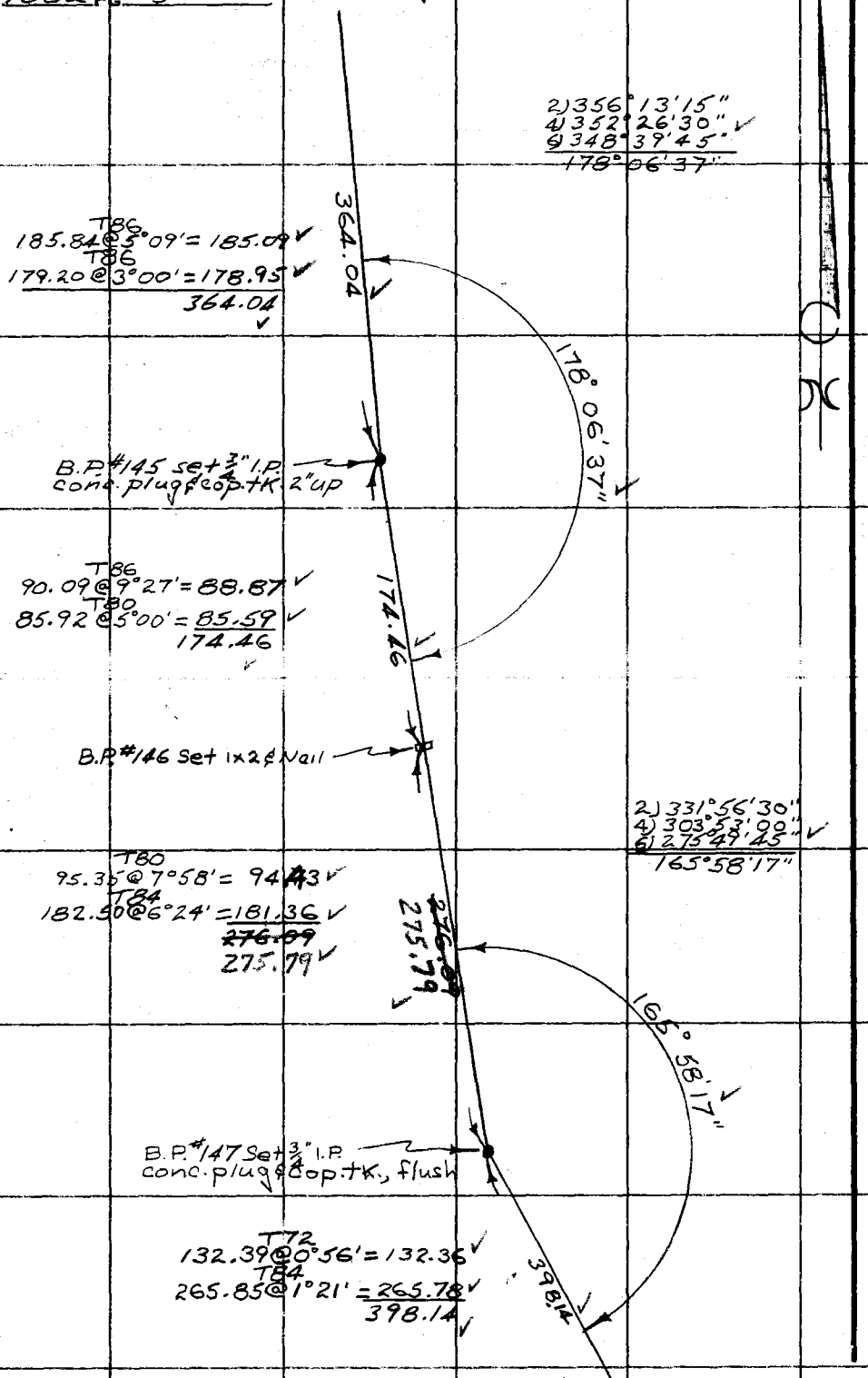
76F309S S&E #247. 8-54

F.B. 1882 PG. 50

bot. rt. pg 49



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LOS ANGELES COUNTY SURVEYOR
720 LOS ANGELES COUNTY
ENGINEERING BLDG.
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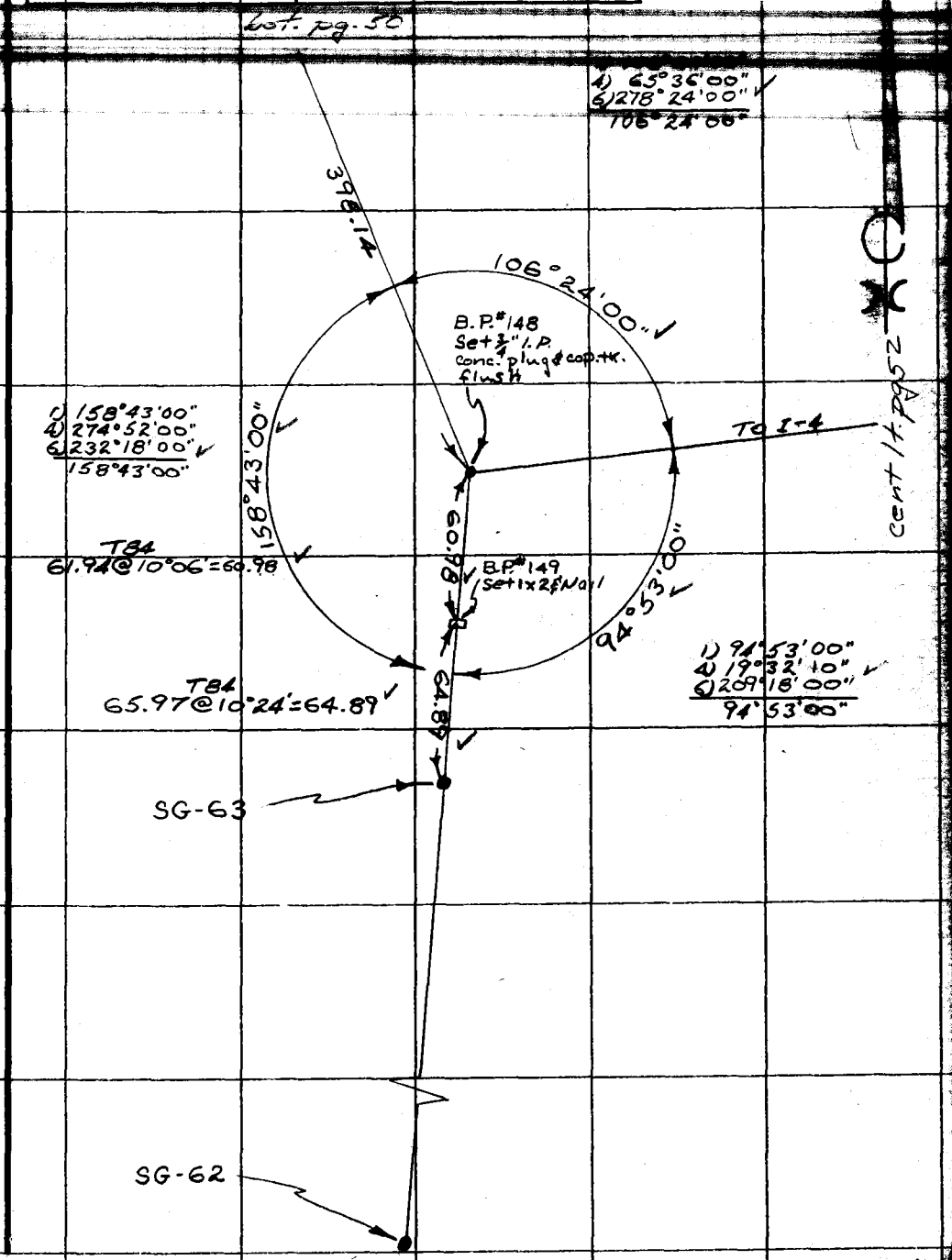
F. B. 1992 PG. 51

Map No.
Office Work
Checked
Date

W. O. Maps No. Sta.
Surveyed by Coates & Uharriet
Notes Uharriet Date 7-25-55
Indexed



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726 LOS ANGELES COUNTY
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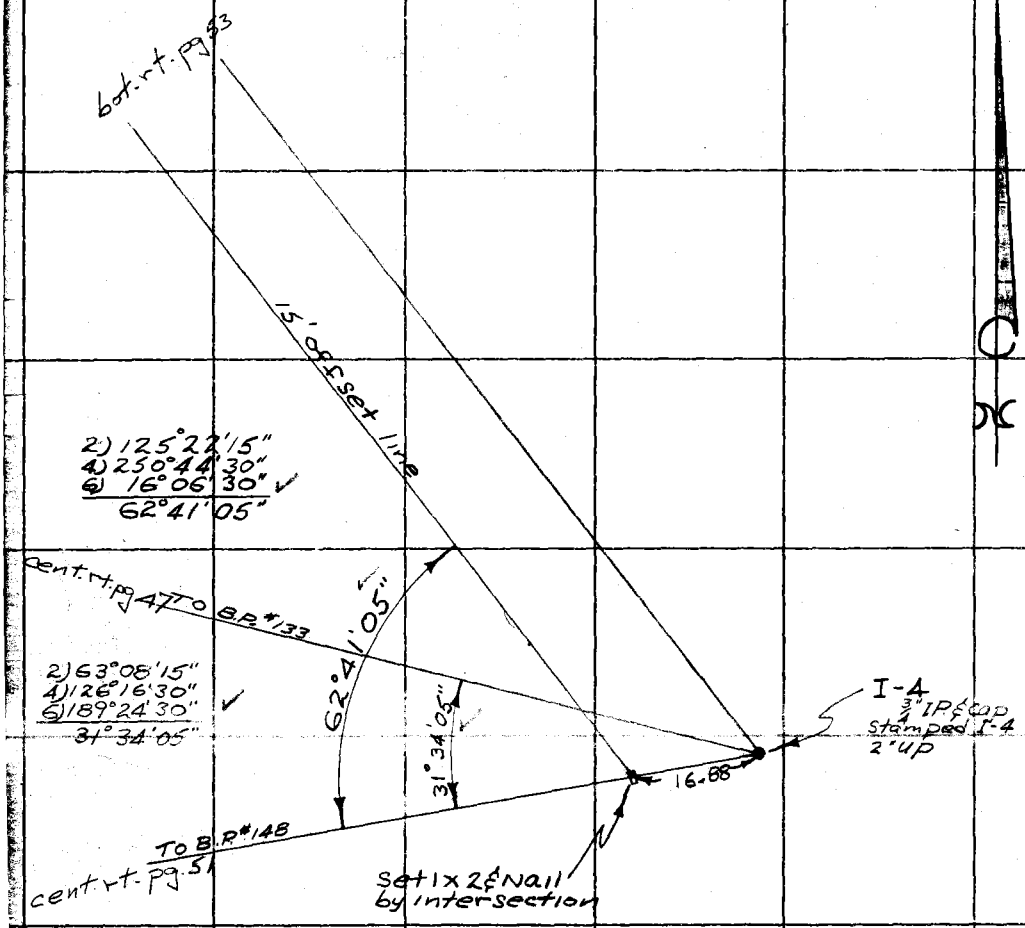
76F309S S&E #247.

F. B. 1882 Pg. 52



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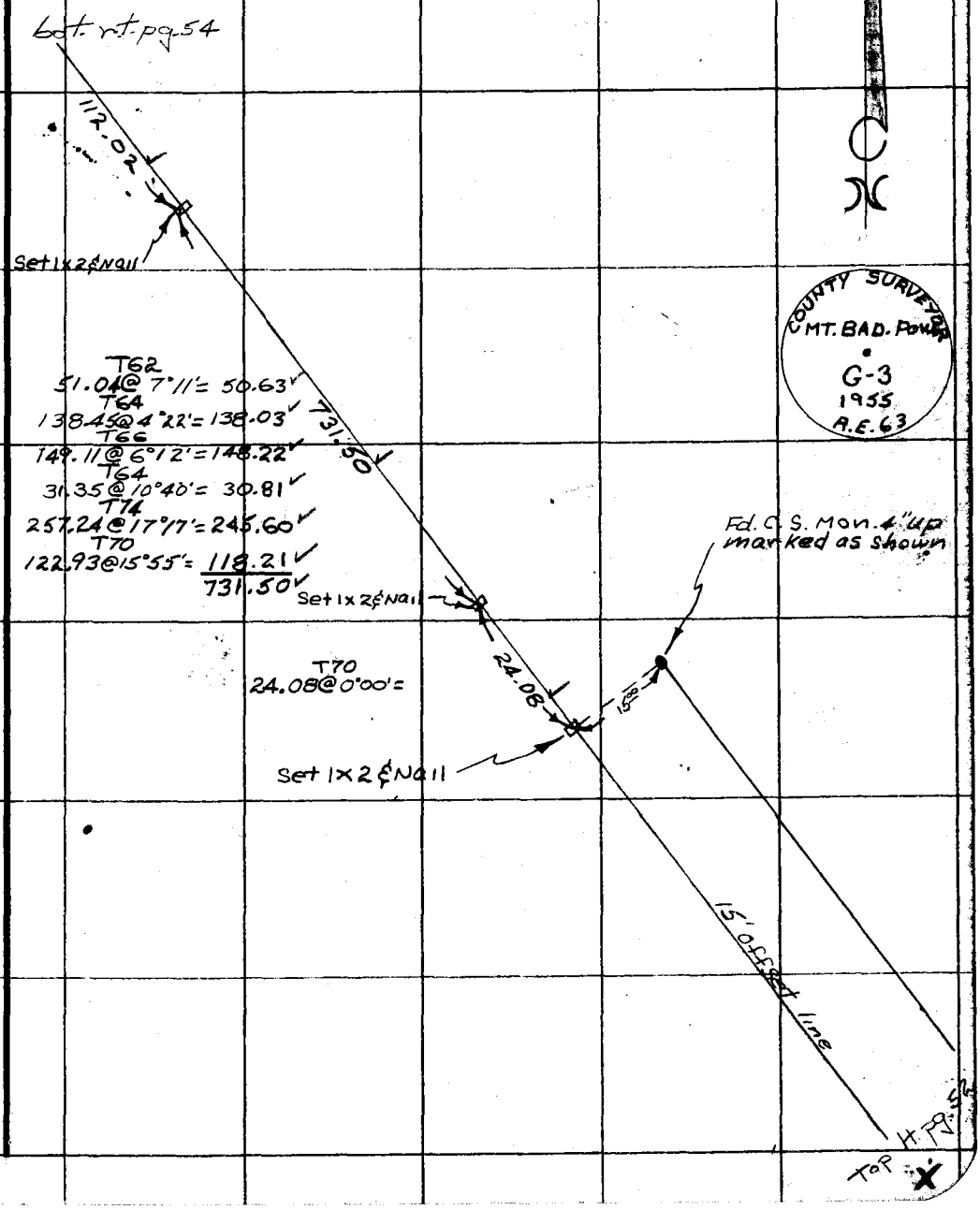
B-35

F. B. 1592 PG. 12

Map No.
Office Work
Checked
Date

W. O. 0907.11 Tape No. 120 St'd. 54 °F
Surveyed by Coates & Uharriet
Notes Uharriet Date 7-26-55
Indexed A. C. Johnson



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726 LOS ANGELES COUNTY
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76F309S S&E #247. 8-54

F.B. 1882 PG. 54

T.4N.
SEC.31
R.8W.

T86
100.08@14°33'= 96.87
T86
140.85@11°04'= 138.23
T78
203.58@15°58'=195.72
T78
194.63@11°06'= 190.98
T80
167.83@9°21'= 165.60
T82
272.10@8°06'= 269.38
T76
140.07@9°41'= 138.06
T70
94.03@7°00'= 93.32
T70
44.30@0°00'= 44.30
T70
61.31@4°09'= 61.14
1393.60

top pg 38

1393.60

Set 1x2 & Nail by intersection

40°53'50"

2) 81°47'45"
4) 163°35'30"
6) 245°23'00"
40°53'50"

182.68

15' offset line

T72
19.49@0°00'= 19.49
T64
165.46@9°28'= 163.19
182.68

T.3N.
SEC.6
R.8W.

Set 1x2 & Nail

112.02

T62
112.89@7°01'=112.02

top lt. pg 53

cent. lt. pg. 20

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X

F.B. Pg. 55

Map No.
Office Work
Checked
Date

W. O. Tape No. St'd. °F
Surveyed by COATES
Notes J.S.C. Date 7-23-55
A. C. Johnson
Indexed

ANGLES & ELEVATIONS ON SIDE-SHOT STATIONS FOR PHOTOGRAMETRY CONTROL FROM S25 TO S-44

COATES
BROWN
BONNEY
CONNER
FULTON

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ENGINEERING BLDG.

76F3098 247 4-53

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F.B. 7882 PG. 56

F.B. Pg. 57

Map No.
Office Work
Checked
Date

W. O. Tape No. St'd. °F
Surveyed by J.S. COATES
Notes J.S.C Date 7-28-59
Indexed C. Johnson

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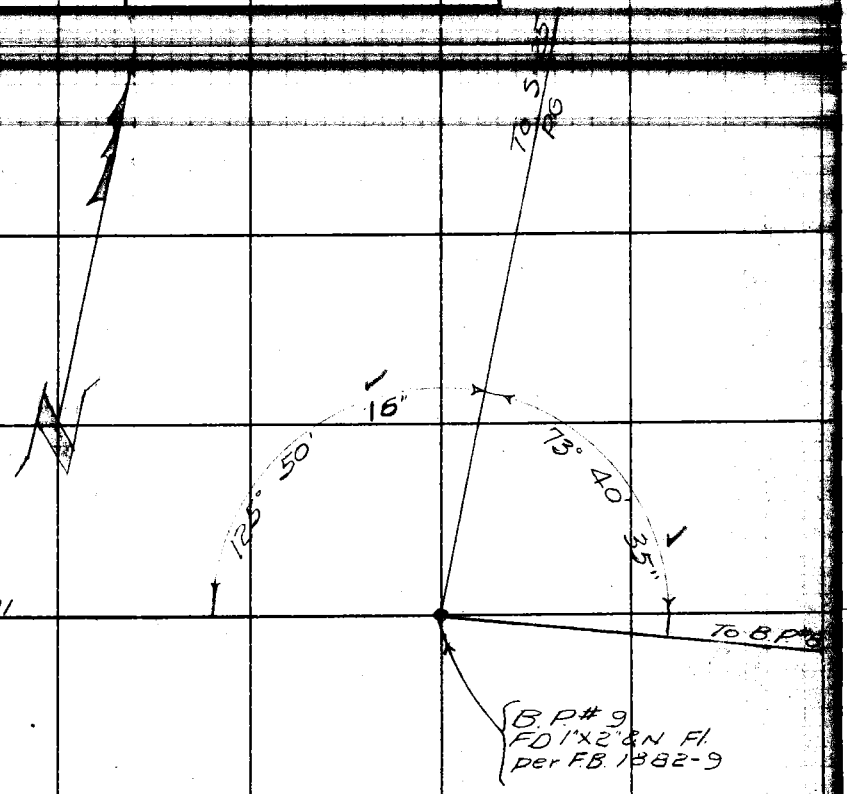
ENGINEERING BLDG.



BP#11 TO S25

1) 125° 50' 20"
4) 143° 21' 00"
6) 125° 50' 15" ✓
35° 01' 40"
125° 50' 16⅔"

S25 TO BP#8

1) 73° 40' 40"
4) 294° 42' 20" ✓
73° 40' 35"
6) 82° 03' 50"
73° 40' 33⅓

76FS098 247 4-58

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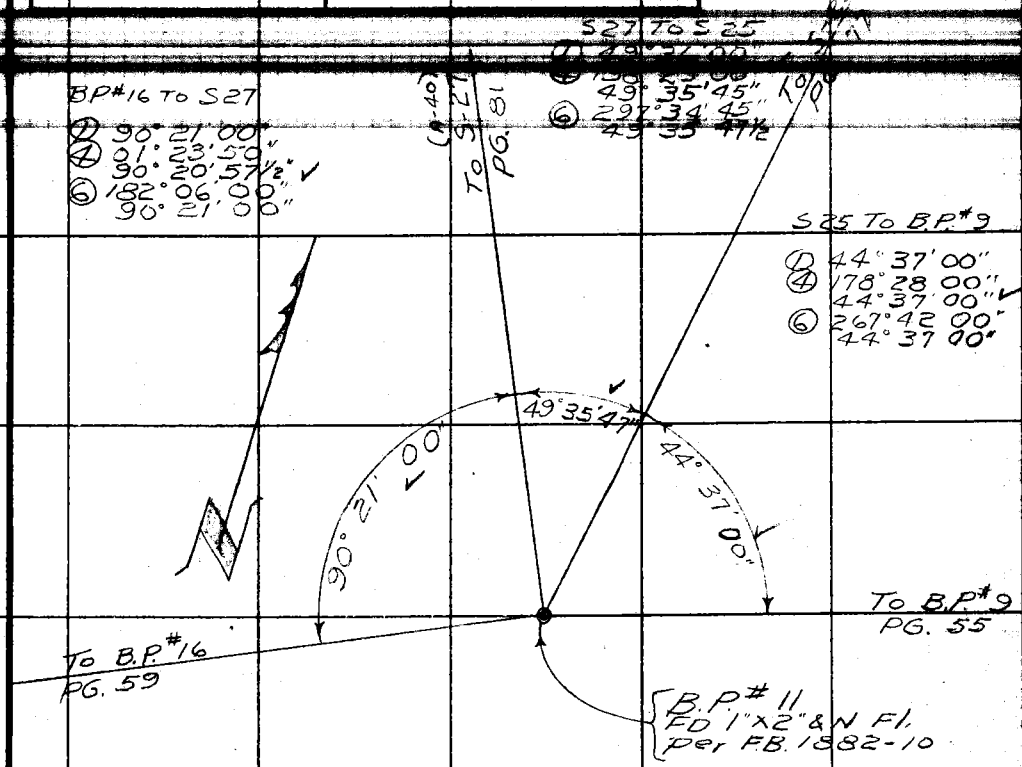
TRANSIT AT STATION BP#2 F.B. 1882 PG 56 H.I. 4.41

SIGHT ON	- ROD	± VERTICAL ANGLE	HORIZONTAL DISTANCE	± VERTICAL DISTANCE	CURVATURE CORRECTION	± DIFFERENCE ELEVATION	ADJUSTED DIFF. ELEV.
S-25	-9.00	2°32' 00"	1463.649				
		2°32' 00"					
		2°32' 00"	04424384	- 64.76		-69.35	
	-3.00	-2°46 40"					
		-2° 46' 40"					
		2° 46' 40"	04351939	- 71.02		-69.61	

F.B. 1882 PG. 58

F.B. _____ Pg. 59

Map No. _____	W. O. _____ Tape No. _____ St'd. _____ °F
Office Work _____	Surveyed by J. S. COATES
Checked _____	Notes J.S.C. Date 7-28-55
Date _____	Indexed E. C. Johnson



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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

76F3098 247 4-53

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TRANSIT AT STATION BP#1 FB 1882 PG. 58 H.I. 3.92

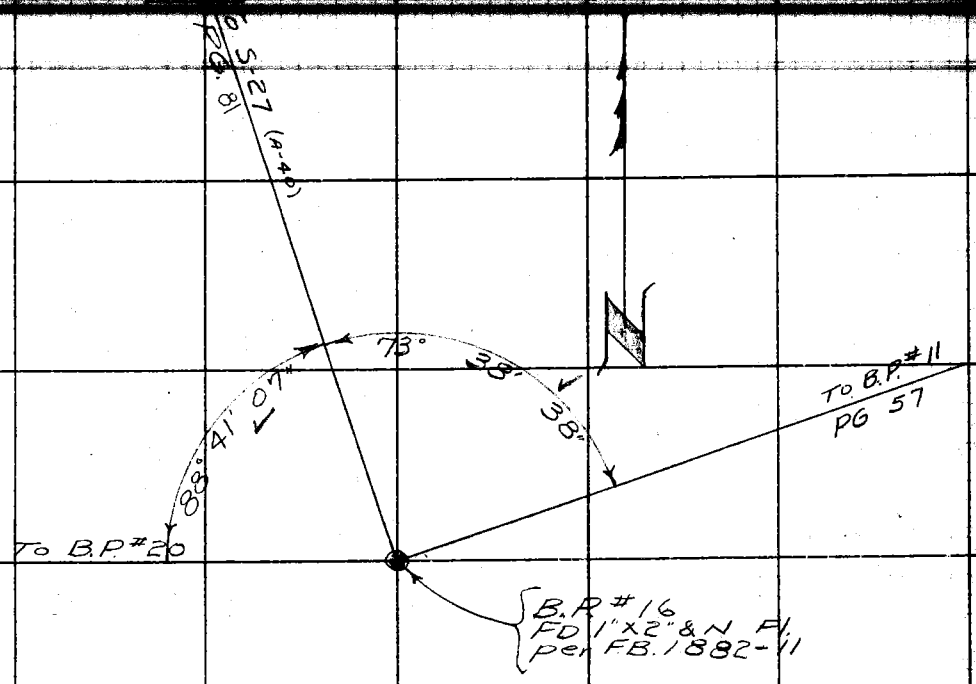
SIGHT ON	ROD	± VERTICAL ANGLE	HORIZONTAL DISTANCE	± VERTICAL DISTANCE	+ CURVATURE CORRECTION	± DIFFERENCE ELEVATION	ADJUSTED DIFF. ELEV
S-25	10.00	- 4° 26' 40"	1689.412				
		- 4° 26' 20"					
		4° 26' 30"	07767737	-131.23		-137.31	
	7.00	- 4° 32' 30"					
		- 4° 32' 50"					
		4° 32' 40"	07948226	-134.28		-137.36	
S-27 (A-40)	10.00	- 9° 29' 00"	2087.180				
		- 9° 29' 20"					
		- 9° 29' 10"	16709342	-348.75		-354.83	
	7.00	- 9° 33' 40"					
		- 9° 34' 00"					
		- 9° 33' 50"	16848918	-351.67		-354.75	

F.B. 1882 Pg. 60

F. B. Pg. 61

Map No.
Other Work
Checked
Date

W. O. 787, Tape No. St'd. °F
Surveyed by J. S. GATES
Notes J. S. C. Date 7-28-55
Indexed C. Johnson



B.P. #20 TO S27
① 88° 41' 10"
④ 354° 44' 30"
88° 41' 07½" ✓
⑥ 172° 06' 40"
88° 41' 06 3/5"

S27 TO B.P. #11
1.) 73° 38' 40"
4.) 294° 34' 30"
73° 38' 37½" ✓
6.) 81° 51' 50"
73° 38' 38 1/5

RETURN TO
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78FSOS 247 4-53

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TRANSIT AT STATION BP #16 F.B. 1882 PG. 60 H.I. 3.08

SIGHT ON	+ ROD	± VERTICAL ANGLE	HORIZONTAL DISTANCE	VERTICAL ± DISTANCE	+ CURVATURE CORRECTION	± DIFFERENCE ELEVATION	ADJUSTED DIFF. ELEV.
S-27	-6.00	-9° 55' 20"	2,175.163				
		-9° 56' 00"					
		9° 55' 40	17502756 ✓	+380.71		-383.63	
	-3.00	-10° 00' 00"					
		-10° 00' 10"					
		-10° 00' 05"	17633197	-388.59		-383.51	
	-4.00	-9° 58' 50"					
		-9° 58' 40"					
		9° 58' 45	17595209 ✓	-382.72		-383.64	

F.B. 1882 Pg. 62

F. B. _____ Pg. 62

Map No. _____ W. O. _____ Tape No. _____ St'd. _____ °F

Office Work _____ Surveyed by J.S.Coates

Checked _____ Notes J.S.C. Date 7-28-5

Date _____ Indexed E. C. Johnson

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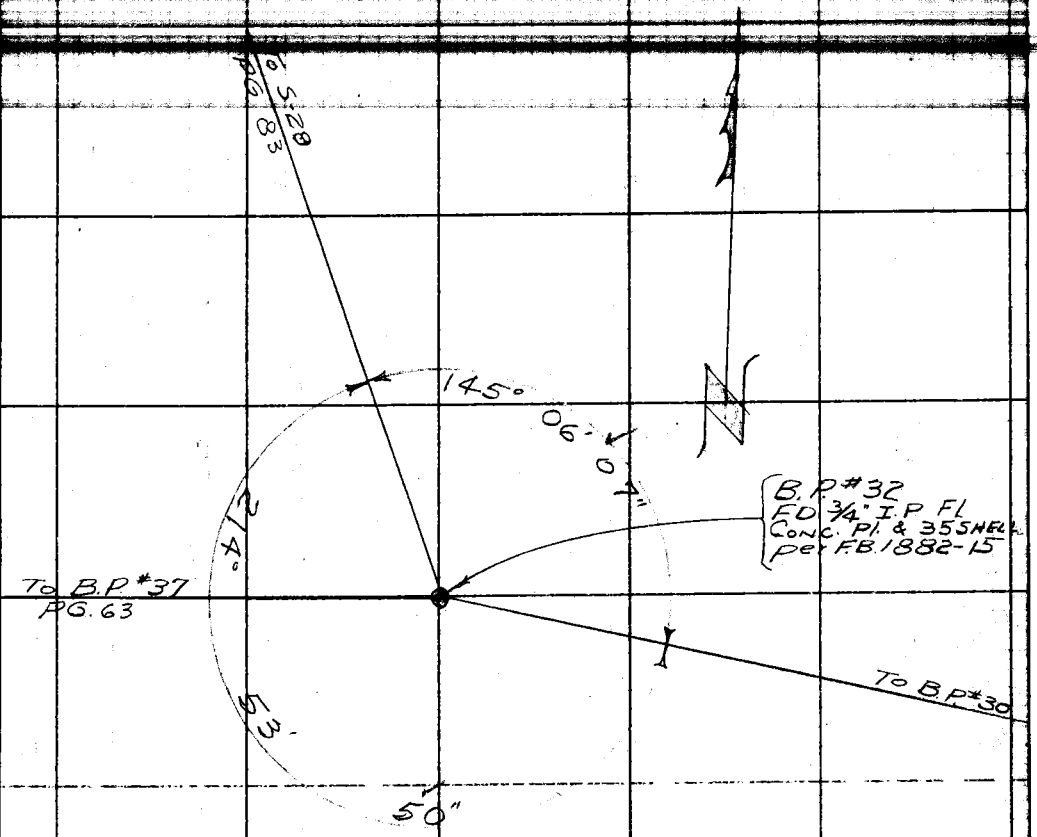

B.P.#30 ET TO S28

1) 214° 53' 40"
4) 139° 35' 30"
214° 53' 50" ✓
6) 209° 22' 50"
214° 53' 48⅓

S28 TO B.P.#30

1) 145° 06' 00"
4) 220° 24' 30"
145° 06' 07½ ✓
6) 150° 36' 40"
145° 06' 06⅔"

76F3008 247 4-53

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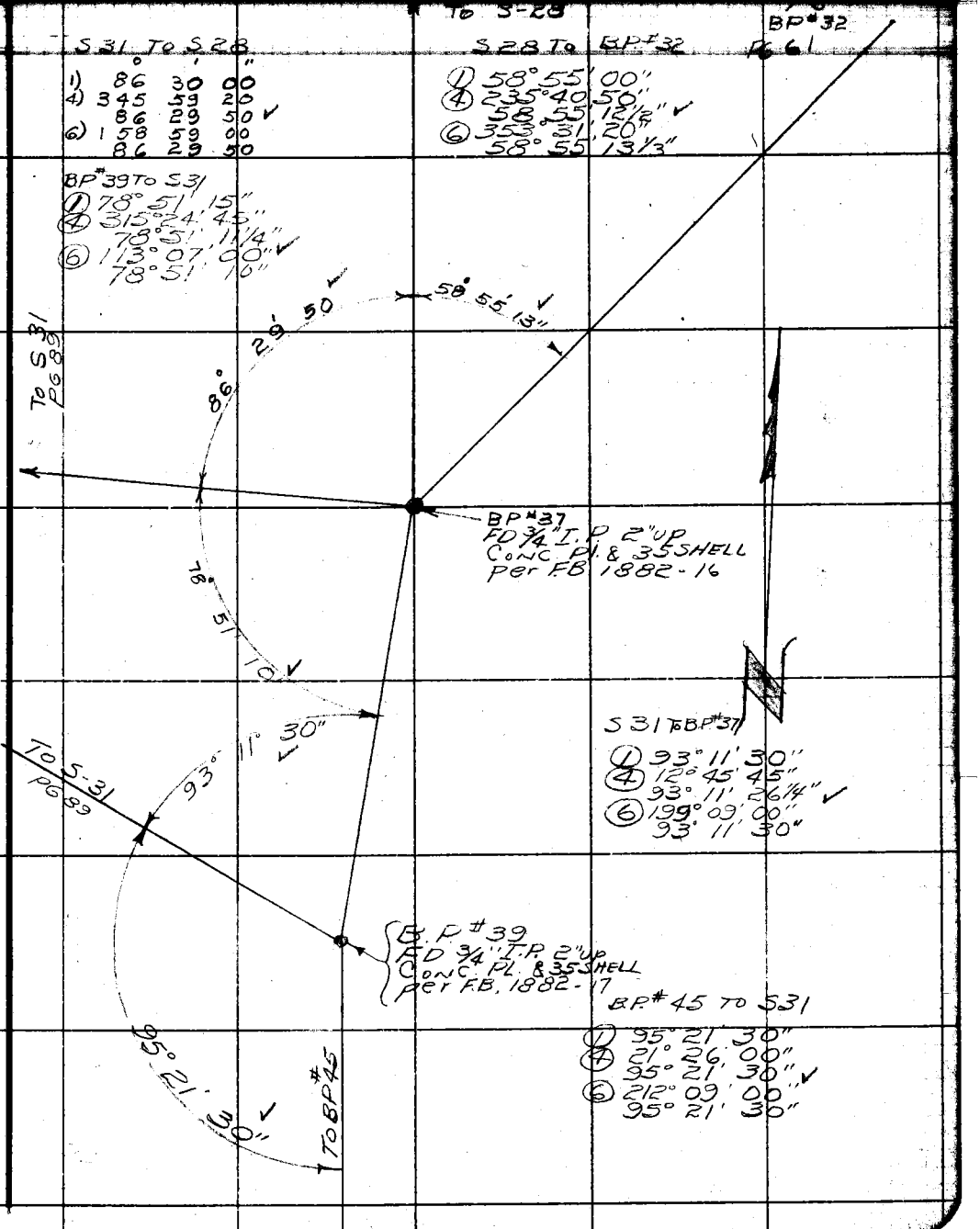
TRANSIT AT STATION B.P. #32 F.B. 1882 PG. 62 H.I. 484

SIGHT ON	-ROD	± VERTICAL ANGLE	HORIZONTAL DISTANCE	± VERTICAL DISTANCE	+ CURVATURE CORRECTION	± DIFFERENCE ELEVATION	ADJUSTED DIFF. ELEV.
S-29	-5.00	-14° 16' 00"	2705.618				
		-14° 16' 00"					
		-14° 16' 00"	25427732	+ 687.98		-688.14	
	-4.00	-14° 19' 50"					
		-14° 19' 50"					
		14° 19' 50"	25546483	- 691.19		-690.35	

F.B. 1882 PG. 64

F.B. Pg. 65

Map No.	W. O. 998 Tape No. St'd. °F
Office Work	Surveyed by J. S. Coates
Checked	Notes J. S. C. Date 7-29-55
Date	Indexed A. C. Johnson



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76F3098 247 4-53

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TRANSIT AT STATION B.M. 37 F.B. 1882 PG 64 H.I. 4.13

SIGHT ON	ROD	± VERTICAL ANGLE	HORIZONTAL DISTANCE	± VERTICAL DISTANCE	± CURVATURE CORRECTION	± DIFFERENCE ELEVATION	ADJUSTED DIFF. ELEV.
S-29	-5.00	-15°37'30"					
		-15°37'30"					
		-15°37'30"					
	-3.00	-15°42'40"					
		-15°42'50"					
		-15°42'45"					
S-31	9.00	+6°20'50"	2046.373				
		+6°20'50"					
		+6°20'50"	11123533	+227.63'		+222.76'	
	-3.00	+6°10'30"					
		+6°10'10"					
		+6°10'20"	10814425	+221.30		+222.43	

TRANSIT AT STATION B.M. 39 F.B. 1882 PG 64 H.I. 4.65

S-31	10.00	+6°11'45"	2010.897				
		+6°11'45"					
		+6°11'45"	10856118	+218.31		+212.44	
	-4.00	+6°01'00"					
		+6°01'15"					
		+6°01'07½"	10543756	+212.02		+212.15	

F.B. 1882 PG. 66

F.B. Pg.

Map No.
Office Work
Checked
Date

W. O. Tape No. Sl'd. °F
Surveyed by: J.S. COATES
Notes U.S.C. Date 7-29-55
Indexed C. Johnson

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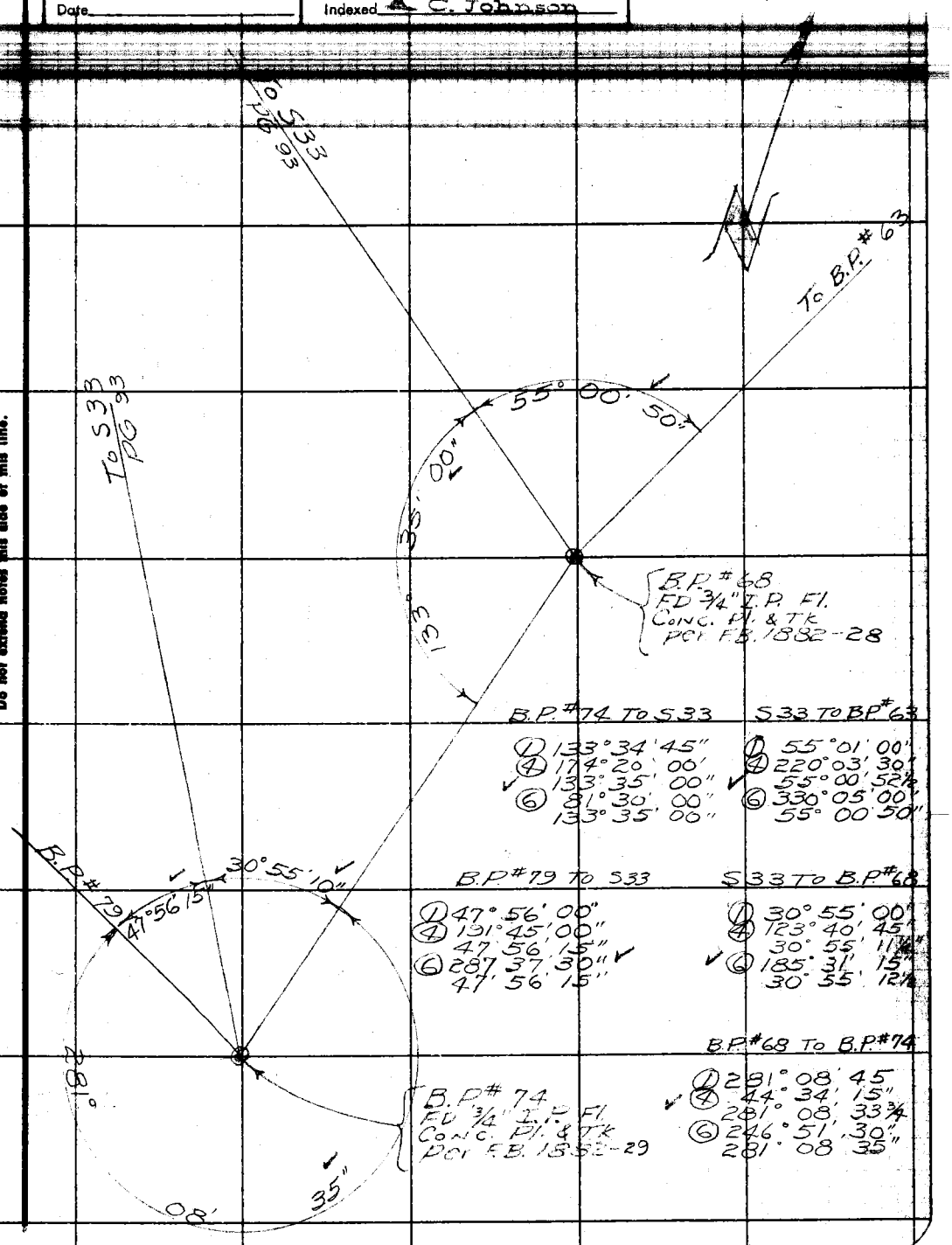

B.P. #74 To S 33

①	133° 34' 45"
④	174° 20' 00"
	133° 35' 00"
⑥	81° 30' 00"
	133° 35' 00"

S 33 To B.P. #63

①	55° 01' 00"
④	220° 03' 30"
	55° 00' 52½"
⑥	330° 05' 00"
	55° 00' 50"

B.P. #79 To S 33

①	47° 56' 00"
④	131° 45' 00"
	47° 56' 15"
⑥	287° 37' 30"
	47° 56' 15"

S 33 To B.P. #68

①	30° 55' 00"
④	123° 40' 45"
	30° 55' 11½"
⑥	185° 31' 15"
	30° 55' 12½"

B.P. #68 To B.P. #74

①	281° 08' 45"
④	44° 34' 15"
	281° 08' 33¾"
⑥	246° 51' 30"
	281° 08' 35"

70F3088 847 4-53

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TRANSIT AT STATION B.P.#74 F.B. 1882 PG 66 H.I. 3.83

SIGHT ON	ROD	± VERTICAL ANGLE	HORIZONTAL DISTANCE	± VERTICAL DISTANCE	± CURVATURE CORRECTION	± DIFFERENCE ELEVATION	ADJUSTED DIFF. ELEV.
S-33	-10.00	-6°30'00"	2012.155				
		-6°30'00"					
		-6°30'00"	11393561	-229.26	-235.43	-235.43	
	-1.00	-6°45'00"					
		-6°45'15"					
		6°45'07½"	11839713	-238.23	-235.40	-235.40	

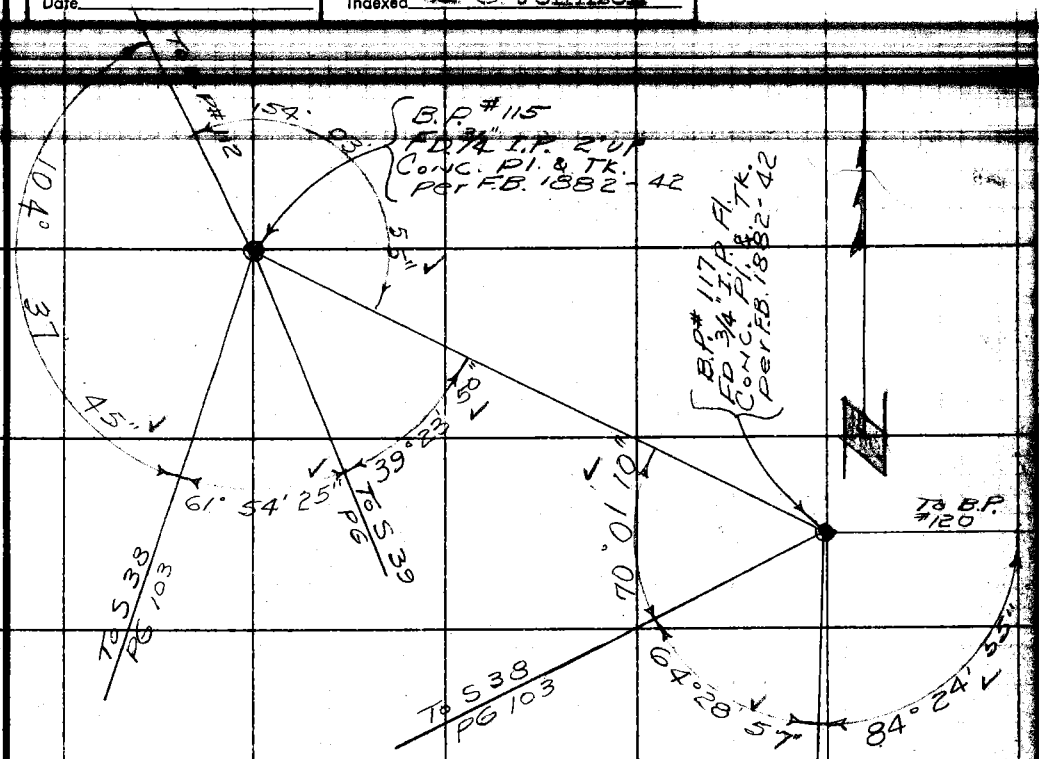
TRANSIT AT STATION B.P.#68 F.B. 1882 PG 66 H.I. 4.90

S33	-10.00	-9°46'15"	1427.410				
		-9°46'30"					
		-9°46'22½"	17224573	-245.87	-252.04	-252.04	
	-1.00	-10°07'30"					
		-10°07'30"					
		-10°07'30"	17857734	-254.90	-252.07	-252.07	

F.B. 1882 PG. 68

F.B. Pg 69

Map No. | W. O. | Tape No. | St'd. | °F
Office Work | Surveyed by J.S. Coates
Checked | Notes J.S.C. Date 8-1-35
Date | Indexed A. C. Johnson



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∠ @ B.P. #115

B.P. #112 To S-38

①	104° 37' 45"
④	58° 31' 00"
	104° 37' 45" ✓
⑥	267° 46' 30"
	104° 37' 45"

S-38 To S-39

①	61° 54' 15"
④	247° 37' 45"
	61° 54' 26¼" ✓
⑥	11° 26' 30"
	61° 54' 25"

S 39 To B.P. #117

①	39° 24' 00"
④	157° 35' 15"
	39° 23' 48¾" ✓
⑥	236° 23' 00"
	39° 23' 50

∠ @ B.P. #117

B.P. #115 To S 38

①	70° 01' 15"
④	280° 04' 45"
	70° 01' 11¼" ✓
⑥	60° 07' 00"
	70° 01' 10"

S38 To S-39

①	64° 28' 45"
④	257° 56' 00"
	64° 29' 00" ✓
⑥	26° 53' 45"
	64° 28' 57½"

S-39 To B.P. #120

①	84° 25' 00"
④	337° 39' 45"
	84° 24' 56¼" ✓
⑥	146° 29' 30"
	84° 24' 55"

BP 112 To BP 117

①	154° 03' 45"
④	256° 15' 45"
	154° 03' 55½" ✓
⑥	204° 23' 30"
	154° 03' 55"

78F3008 247 4-33

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TRANSIT AT STATION B.P.# 115 FB 1882 PG 70 H.I. 4.85

SIGHT ON	ROD	± VERTICAL ANGLE	HORIZONTAL DISTANCE	± VERTICAL DISTANCE	± CURVATURE CORRECTION	± DIFFERENCE ELEVATION	ADJUSTED DIFF. ELEV.
539	-9.00	- 1° 29' 45" - 1° 29' 45" - 1° 29' 45"					
	-1.00	- 1° 42' 30" - 1° 42' 15" - 1° 42' 22½"					
S-38	-10.00	- 7° 07' 00" - 7° 07' 00" - 7° 07' 00"	1932.225 12488646	-241.31	-246.46	-246.46	
	-1.00	- 7° 22' 45" - 7° 22' 30" - 7° 22' 37½"	12947309	-250.17	-246.32	-246.32	

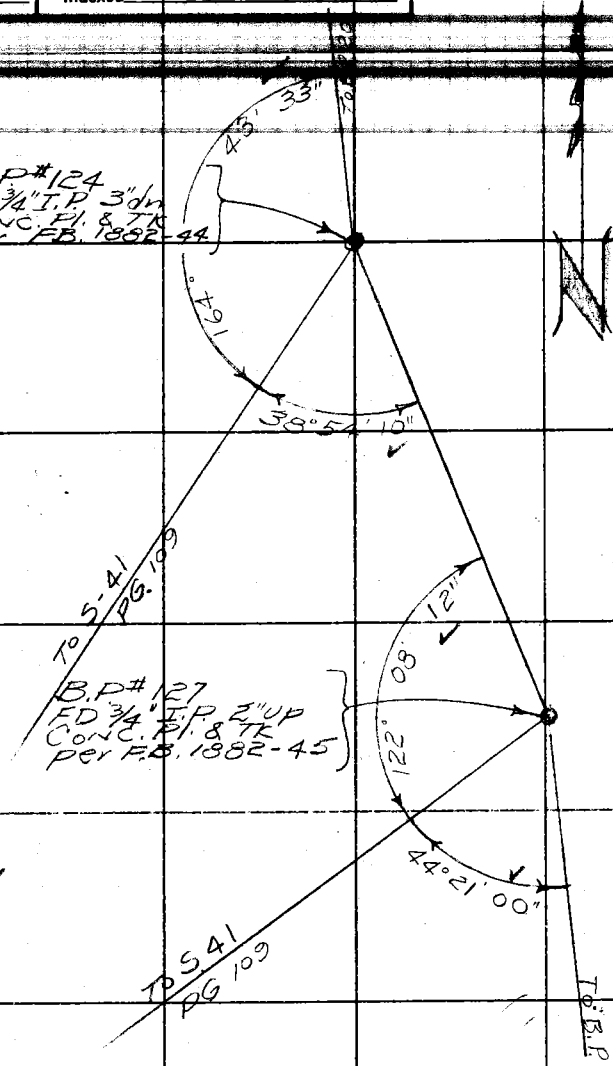
TRANSIT AT STATION B.P.# 117 FB 1882 PG 70 H.I. 4.84

S-39	-10.00	- 1° 24' 15" - 1° 24' 15" - 1° 24' 15"	1852.484 02451224	-45.41	-50.56	-50.56	
	-1.00	- 1° 41' 00" - 1° 41' 00" - 1° 41' 00"	02938817	-54.44	-50.59	-50.59	
S-38	-10.00	- 6° 36' 15" - 6° 36' 15" - 6° 36' 15"	2016.065 11577764	-233.42	-238.57	-238.57	
	-1.00	- 6° 51' 15" - 6° 51' 15" - 6° 51' 15"	12020172	-242.33	-238.48	-238.48	

F.B. 1882 PG. 70

F.B. Pg. 71

Map No.	W. O. 6907 Tape No. Sr'd. °F
Office Work	Surveyed by J.S. COATES
Checked	Notes J.S.C. Date 8-1-55
Date	Indexed A. C. Johnson



⊼ @ B.P.#124

B.P.-120 To S41

① 164°43' 30"
④ 298°54' 00"
164°43' 30" ✓
⑥ 268°21' 15"
164°43' 32½"

B.P. 127 To S41

① 38°54' 00"
④ 155°36' 30"
38°54' 07½" ✓
⑥ 233°25' 00"
38°54' 10"

⊼ @ B.P.#127

S41 To B.P.#124

① 122°08' 00"
④ 123°32' 45"
122°08' 11¼" ✓
⑥ 12°49' 15"
122°08' 12½"

B.P.# To S41

① 44°21' 00"
④ 177°24' 00"
44°21' 00" ✓
⑥ 266°06' 00"
44°21' 00"

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TRANSIT AT STATION BP #124 FB 1882 PG 72 H.I. 5.32

Sight on	-Rod	± Vertical Angle	Horizontal Distance	+ Vertical - Distance	+ Curvature Correction	± Difference Elevation	Adjusted Diff Elev
S-41	-10.00	+11° 41' 15" +11° 41' 30" +11° 41' 22½"	2154.323 20690298	+445.74	+441.06	+441.06	
	-1.00	+11° 37' 45" +11° 38' 00" +11° 37' 52½"	20584151	+443.45	+447.77	+447.77	

TRANSIT AT STATION BP #127 FB 1882 PG 72 H.I. 4.57

S-41	-10.00	+ 11° 03' 15" +11° 03' 30" +11° 03' 22½"	1597.706 19540186	+ 312.19		+ 307.51	
	-1.00	+ 10° 45' 30" + 10° 45' 30" + 10° 45' 30"	19000662	+ 303.57		+ 307.89	

F.B. 1882 PG. 72

F.B. Pg. 72

Map No.	W. O. Tape No. St'd. °F
Office Work	Surveyed by J. S. COATES
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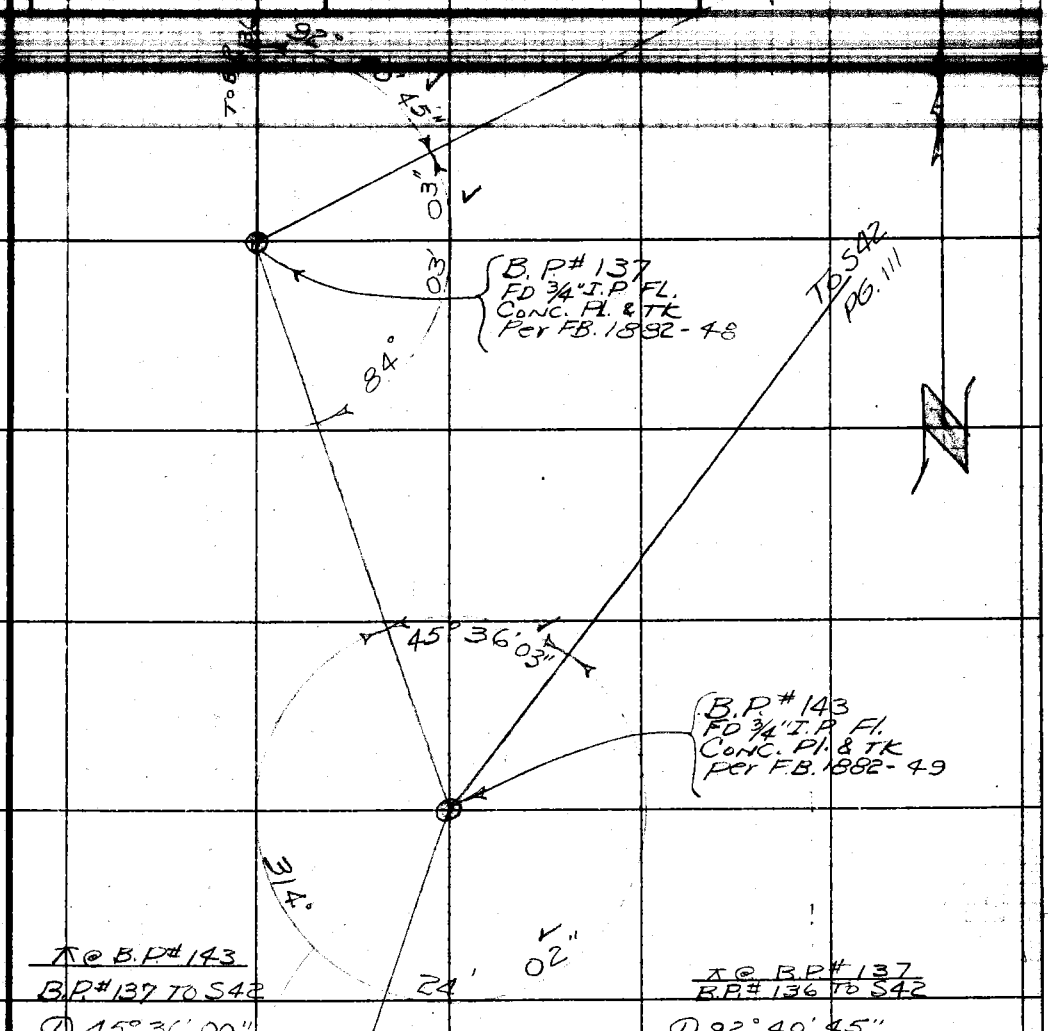
Date	Indexed A. C. Johnson



⊼ @ B.P.# 143

B.P.# 137 TO S42

(1) 45° 36' 00"
(4) 182° 24' 10"
45° 36' 02½
(6) 273° 36' 20"
45° 36' 03⅓

S42 TO BP# 137

(1) 314° 23' 50"
(4) 177° 36' 10"
314° 24' 02½
(6) 86° 24' 10"
314° 24' 01⅔"

⊼ @ B.P.# 137

B.P.# 136 TO S42

(1) 92° 40' 45"
(4) 10° 43' 00"
92° 40' 45"
(6) 196° 04' 30"
92° 40' 45"

S42 TO B.P.# 143

(1) 84° 03' 15"
(4) 336° 12' 15"
84° 10' 03¾
(6) 144° 18' 15"
84° 03' 02½

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TRANSIT AT STATION BP#132 FB 1882 PG 74 H.I. 4.73

SIGHT ON	- ROD	± Vertical Angle	HORIZONTAL DISTANCE	± VERTICAL DISTANCE	+ CURVATURE CORRECTION	± DIFFERENCE ELEVATION	ADJUSTED DIFF. ELEV
S42	-10.00	+7° 59' 00"	1350.778				
		+7° 58' 50"					
		7° 58' 55"	1402.1950	+ 189.41	+184.14	+184.14	
	-1.00	+7° 36' 10"					
		+7° 36' 00"					
		7° 36' 05"	1334.5316	+ 180.27	+184.00	+184.00	

TRANSIT AT STATION BP#137 FB 1882 PG 74 H.I. 4.29

S42	-9.00	+6° 45' 30"					
			970.346				
		+6° 45' 30"					
		+6° 45' 30"	1185.0528	+ 114.99	+110.72	+110.72	
	-4.00	+ 6° 28' 15"					
		+ 6° 28' 00"					
		+ 6° 28' 07½"	1133.8560	+ 110.02	+110.75	+110.75	

F.B. 1882 PG. 74

F.B. Pg 75

Map No.
Office Work
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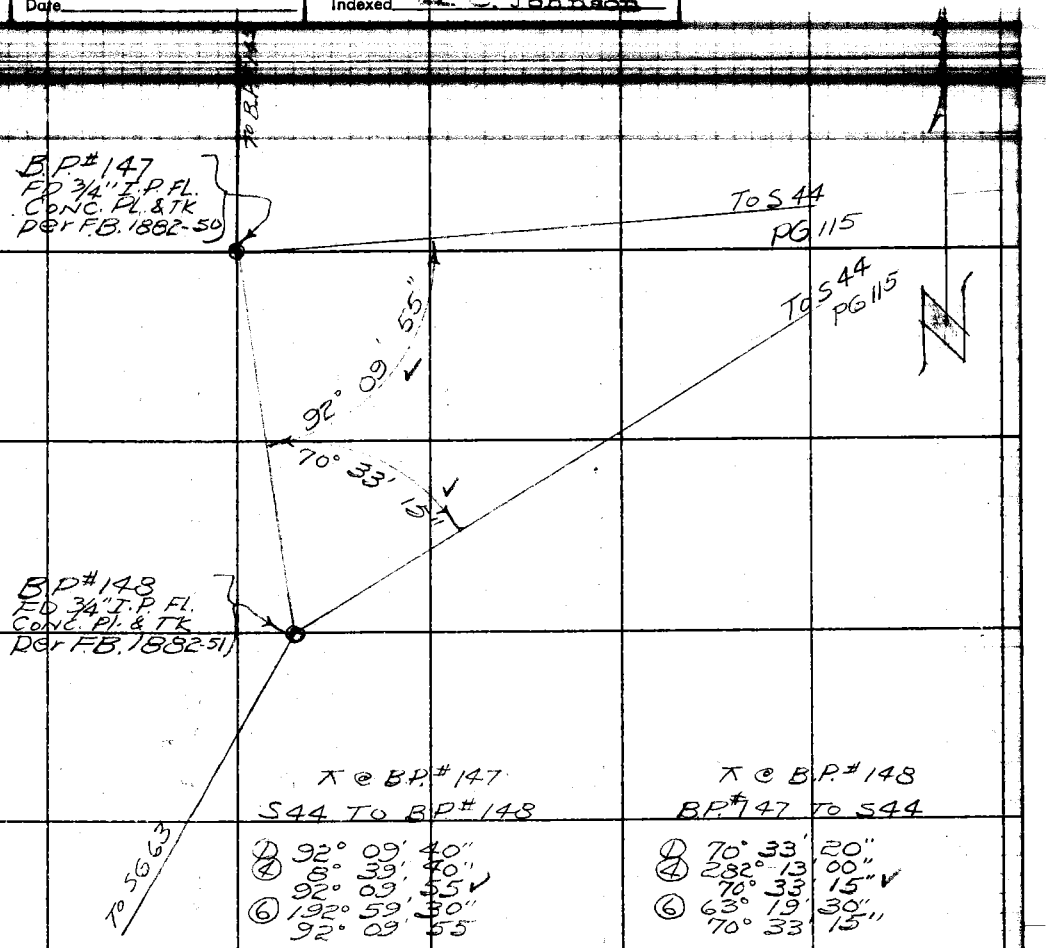
W. O. 2761 Tape No. St'd. °F
Surveyed by J.S. Coates
Notes J.S.C. Date 8-1-55
Indexed E. C. Johnson



∠ @ B.P.# 147
S44 To B.P.# 148

① 92° 09' 40"
④ 8° 39' 40"
92° 09' 55" ✓
⑥ 192° 59' 30"
92° 09' 55"

∠ @ B.P.# 148
B.P.# 147 To S44

① 70° 33' 20"
④ 282° 13' 00"
70° 33' 15" ✓
⑥ 63° 19' 30"
70° 33' 15"

B.P.# 148 To S44

① 267° 50' 00"
④ 331° 20' 00"
267° 50' 00" ✓
⑥ 167° 00' 00"
267° 50' 00"

S44 To B.P.# 147

① 289° 26' 40"
④ 7° 46' 40"
289° 26' 40" ✓
⑥ 296° 40' 00"
289° 26' 40"

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TRANSIT AT STATION B.P.#147 F.B. 1882 PG _____ H.I 3.95

SIGHT ON	- ROD	± Vertical Angle	Horizontal Distance	± Vertical Distance	+ Curvature Correction	± Difference Elevation	Adjusted Diff. Elev
S-44	-10.00	-12°37'10"	1263.473				
		-12°37'20"					
		-12°37'15"	22390829	-282.90	-288.95	-288.95	
	-5.00	-12°50'00"					
		-12°50'20"					
		-12°50'10"	22785731	-287.89	-288.94	-288.94	

TRANSIT AT STATION B.P. #148 FB 1882 PG. _____ H.I. 4.99

S44	-9.00	-11°39'40"	1338.949				
		-11°39'30"					
		-11°39'35"	20635702	-276.30	-281.35	-281.35	
	-2.00	-11°56'20"					
		-11°56'30"					
		-11°56'25"	21146736	-283.14	-281.19	-281.19	

F.B. 1882 PG. 76

Map No.	W. O. 6907.1 Tape No. St'd. °F
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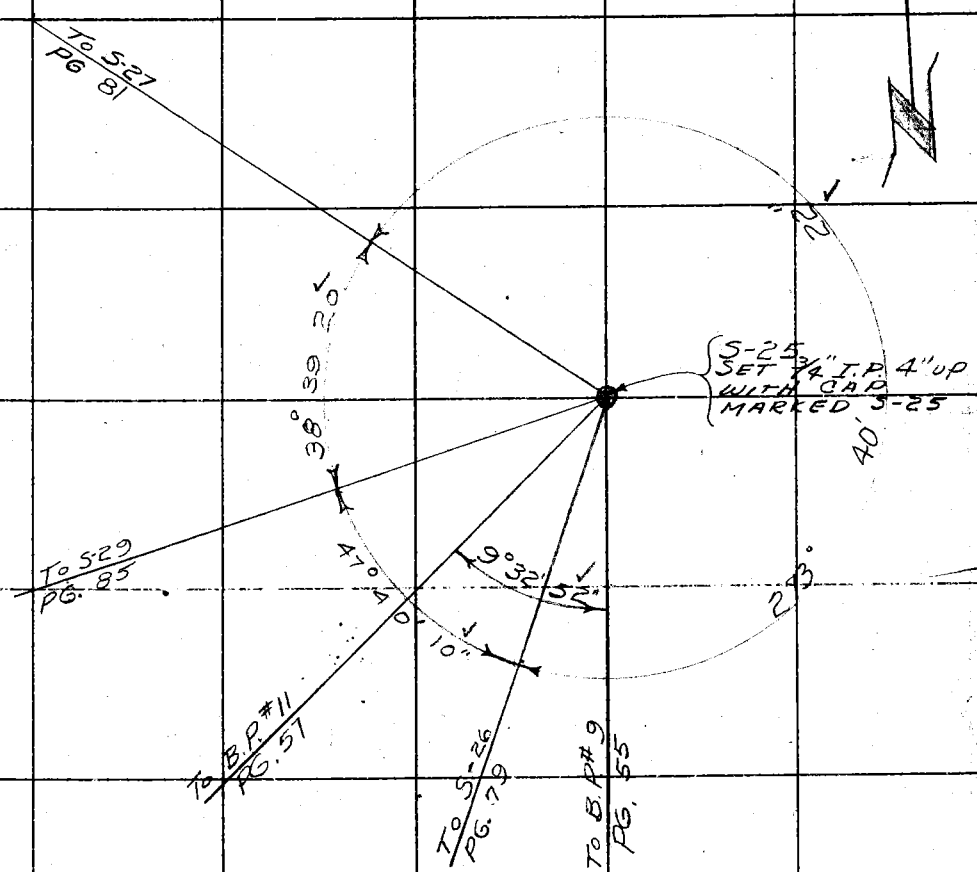
Date	Indexed A. C. Johnson



B.P.#9 To B.P.#11	S26 To S29	S29 To S27	S27 RT To S26
① 9° 33' 00"	① 47 40' 15" ✓	① 38 39 15	① 273 40 30
④ 38° 11' 30"	④ 190° 40' 45"	④ 154 37 15 ✓	④ 14 41 30 ✓
9° 32' 52½" ✓	47° 40' 11¼"	38 39 18¾	273 40 22½
⑥ 57° 17' 15"	⑥ 286° 01' 00"	⑥ 231 56 00	⑥ 202 02 15
9° 32' 52½"	47° 40' 10"	38 39 20	273 40 22½

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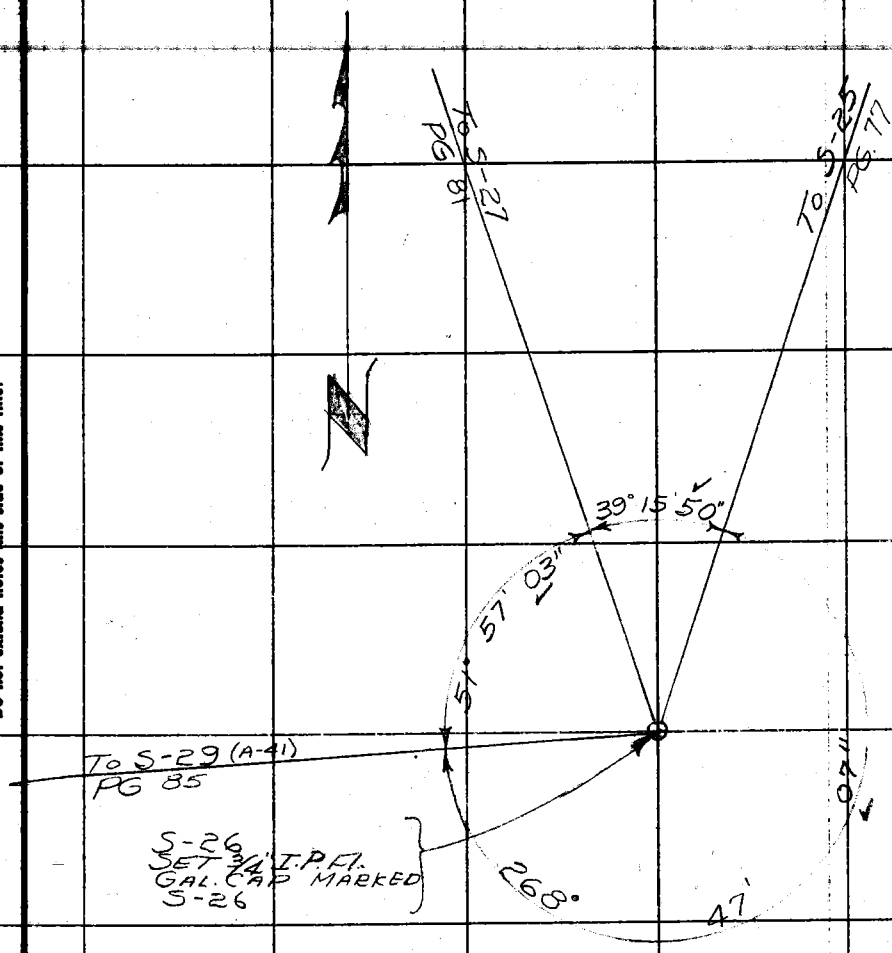
TRANSIT AT STATION S-25 F.B. 1882 PG. H.I. 4.64

SIGHT ON	ROD	± VERTICAL ANGLE	HORIZONTAL DISTANCE	± VERTICAL DISTANCE	± CURVATURE CORRECTION	± DIFFERENCE ELEVATION	ADJUSTED DIFF. ELEV.
S-26	10.00	+ 7° 44' 00"	2,087.238				
		+ 7° 44' 00"					
		7° 44' 00"	13579776	+ 283.44		+ 278.08	
	6.00	+ 7° 37' 00"					
		+ 7° 37' 15"					
		+ 7° 37' 07½"	13376404	+ 279.20		+ 277.84	
S-29 (A41)	9.00	+ 6° 19' 00"	3173.367				
		+ 6° 19' 15"					
		+ 6° 19' 07½"	11073473	+ 351.40		+ 347.04	
	3.00	+ 6° 13' 00"					
		+ 6° 12' 45"					
		+ 6° 12' 52½"	10889476	+ 345.56		+ 347.20	
S-27 (A40)	10.00	− 7° 26' 45"	1624.570				
		− 7° 26' 30"					
		− 7° 26' 37½"	13065633	− 212.26		− 217.62	
	3.00	− 7° 41' 00"					
		− 7° 40' 45"					
		− 7° 40' 52½"	13487256	− 219.11		− 217.47	
B.P.#9	7.00	+ 2° 48' 00"	1463.649				
		+ 2° 48' 00"					
		+ 2° 48' 08"	04890816	+ 71.58		+ 69.22	
	1.00	+ 2° 34' 30"					
		+ 2° 34' 45"					
		+ 2° 34' 37½"	04501137	+ 65.88		+ 69.52	
B.P.#11	5.00	+ 4° 39' 30"	1689.412				
		+ 4° 39' 15"					
		4° 39' 22½"	08144871	+ 137.60		+ 137.24	
	6.00	+ 4° 41' 30"					
		+ 4° 41' 15"					
		+ 4° 41' 22½"	08203437	+ 138.59		+ 137.23	

F.B. 1882 Pg. 78

Map No.
Office Work
Checked
Date

W. O. 890114 Tape No. St'd. °F
Surveyed by J. S. Coates
Notes J.S.C. Date 8/55
Indexed C. Johnson



S25 TO S29
① 268° 47' 00"
④ 355° 08' 30"
268 47' 07½"
⑥ 172° 42' 45"
268° 47' 07½

S27 TO S25
① 39° 16' 00"
④ 157° 03' 15"
39° 15' 48¾"
⑥ 235° 35' 00"
39' 15' 50"

S29 TO S27
① 51° 57' 15
④ 207° 48' 15
51° 57' 03¾
⑥ 311° 42' 15"
51° 57' 02½

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TRANSIT AT STATION S-26 FB 1882 PG ____ H.I. 4.65

Sight on	-Rod	+Vertical Angle -Vertical Angle	Horizontal Distance	+Vertical -Distance	+Curvature Correction	+Difference -Elevation	Adjusted Diff. Elev.
S-25	9.00	-7°31'15"	2087.238				
		-7°31'30"					
		-7°31'22½"	1320 6189	-275.64		-279.99	
	-3.00	-7°41'00"					
		-7°41'00"					
		-7°41'00"	1349 0911	-281.59		-279.94	
S-27	-9.00	-10°54'00"	2561.465				
		-10°54'00"					
		-10°54'00"	1925 6965	-493.26		-497.61	
	-1.00	-11°04'00"					
		-11°04'00"					
		-11°04'00"	1955 8810	-500.99		-497.34	
S-29 (A-41)	-9.00	+1°45'00"	2346.074				
		+1°45'00"					
		+1°45'00"	0305 5276	+71.68		+67.33	
	-3.00	+1°36'00"					
		+1°36'15"					
		+1°36'07½"	0279 7134	+65.62		+67.27	

F.B. 1882 PG. 80

Map No.	W. O. 5907.11 Tape No. St'd. °F
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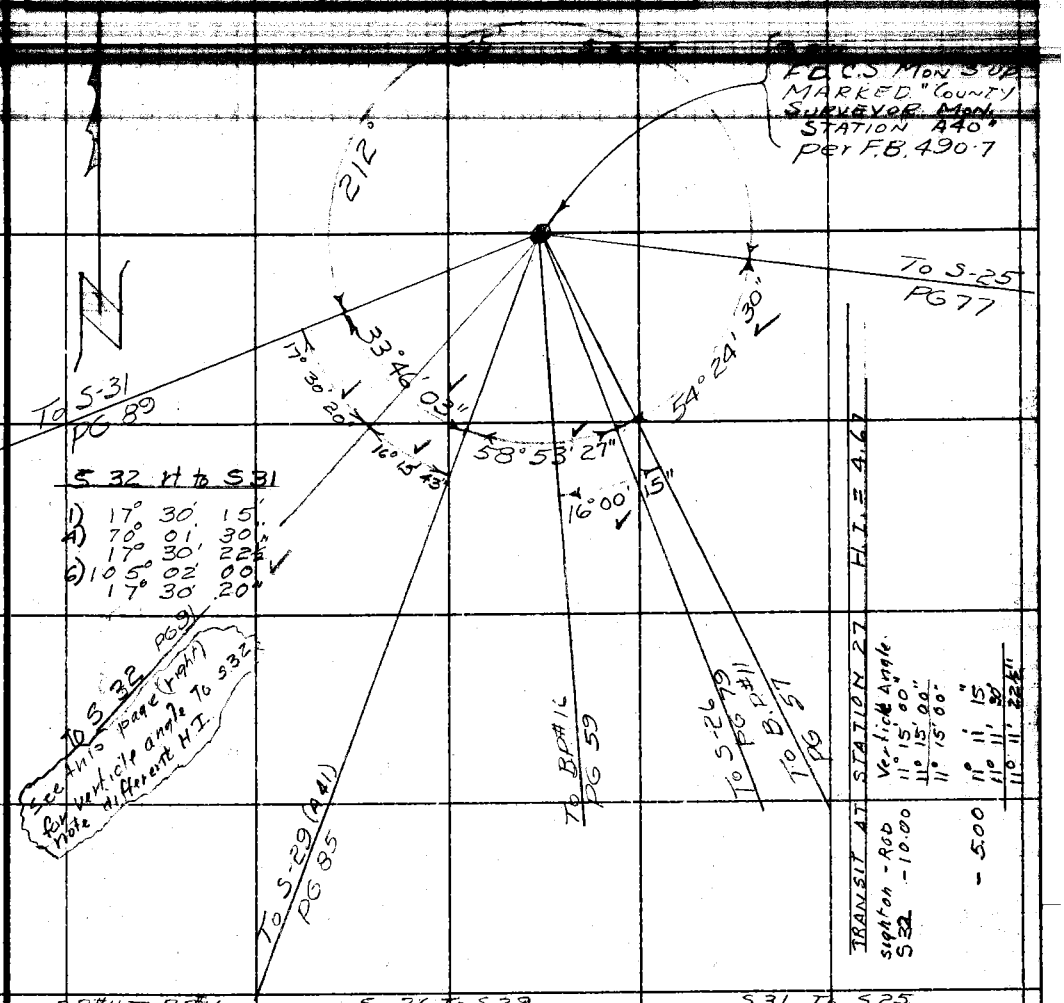
Date	Indexed J. C. Johnson



S 32 H to S31

1) 17° 30' 15"
4) 70° 01' 30"
17° 30' 22½"
6) 105° 02' 00"
17° 30' 20"

BP#11 TO BP#16

1) 16° 00' 00"
4) 64° 01' 00"
16° 00' 15"
6) 96° 01' 30"
16° 00' 15"

S25 TO S26

1) 54° 24' 15"
4) 217° 38' 00"
54° 24' 30"
6) 326° 27' 00"
54° 24' 30"

S-26 TO S29

1) 58° 53' 30"
4) 235° 33' 45"
58° 53' 26"
6) 353 20 45
58 53 27¼

S-29 TO S31

1) 33° 46' 15"
4) 135° 04' 15"
33° 46' 03¾
6) 202° 36' 15"
33° 46' 02½

S31 TO S25

1) 212° 55' 45"
4) 131° 43' 30"
212 55 52½
6) 197 35 15
212 55 52½

S29 to S32

1) 16° 15' 45"
4) 65° 02' 45"
16° 15' 41¼"
6) 97° 34' 15"
16° 15' 42½"

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TRANSIT AT STATION S-27 (A40) FB 1882 PG _____ H.I. 4.80

SIGHT ON	- ROD	+ VERTICAL - ANGLE	HORIZONTAL DISTANCE	± VERTICAL DISTANCE	+ CURVATURE + CORRECTION	± DIFFERENCE ELEVATION	ADJUSTED DIFF. ELEV
S-25	-9.00	+7° 46' 00"	1624.570				
		+7° 43' 45"					
		+7° 45' 52½"	13635575		+221.52	+217.32	
	-4.00	+7° 36' 00"					
		+7° 35' 45"					
		+7° 35' 52½"	13339395		+216.71	+217.51	
B.P.#11	-8.00	+9° 43' 30"	2087.180				
		+9° 43' 45"					
		+9° 43' 37½"	1714 2217		+357.79	+354.59	
	-1.00	+9° 32' 30"					
		+9° 32' 45"	16813017		+350.92	+354.72	
		+9° 32' 37½"					
S-26	-7.00	+11° 01' 45"	2561.465				
		+11° 01' 30"					
		+11° 01' 37½"	1948 7342		+499.16	+496.96	
	-2.00	+10° 55' 45"					
		+10° 55' 45"					
		+10° 55' 45"	19309763		+494.61	+497.41	
B.P.#16	-5.00	+10° 00' 45"	2175.163				
		+10° 00' 45"					
		+10° 00' 45"	17655194		+384.03	+383.83	
	-2.00	+9° 56' 00"					
		+9° 56' 15"					
		+9° 56' 07½"	17516747		+381.02	+383.82	
S-29 (A41)	-10.00	+14° 47' 00"	2,158.485				
		+14° 47' 15"					
		+14° 47' 07½"	26394171		+569.71	+564.51	
	-8.00	+14° 44' 15"					
		+14° 44' 15"					
		+14° 44' 15"	26304475		+567.78	+564.58	
S-31	-9.00	+9° 23' 15"	4080.047				
		+9° 23' 15"					
		+9° 23' 15"	16532479		+674.53	+670.33	
	-5.00	+9° 20' 00"					
		+9° 20' 15"					
		+9° 20' 07½"	16439355		+670.73	+670.53	

F.B. 1882 PG 62

Map No.
Office Work
Checked
Date

W. O. 8967.14 Tape No. Sr'd. °F
Surveyed by J. S. COATES
Notes J.S.C. Date 7-29-55
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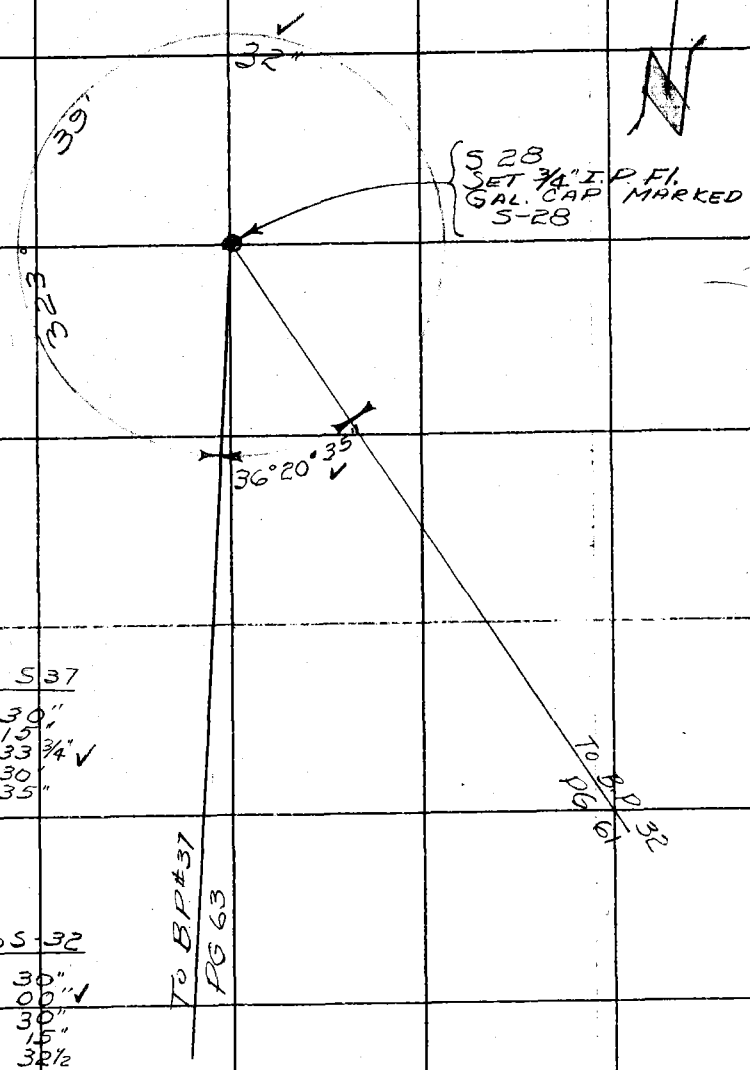

S-32 To S 37

(1) 36° 20' 30"
(4) 145° 22' 15"
36° 20' 33 3/4" ✓
(6) 218° 03' 30"
36° 20' 35"

S-37 To S-32

(1) 323° 39' 30"
(4) 214° 38' 00" ✓
323° 39' 30"
(6) 141° 57' 15"
323° 39' 32 1/2

76F3098 247 4-53

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TRANSIT AT STATION S-38 FB 1882 PG ____ H.I. 4.99

Sight on	-Rod	+ Vertical - Angle	Horizontal Distance	+ Vertical - Distance	Curvature + Correction	+ Difference - Elevation	Adjusted Diff. Elev.
B.P.#37	-8.00	+15°48'00"	1180.284				
		+15°48'15"					
		+15°48'07½"	2830 1337	+334.04		+331.03	
	-5.00	+15°40'00"					
		+15°40'00"					
		+15°40'00"	2804 5968	+331.02		+331.01	
B.P.#32	-10.00	+14°33'30"	1015.134				
		+14°33'30"					
		14 33'30"	2597 0407	+263.63		+258.62	
	-5.00	+14°17'15"					
		+14°17'00"					
		+14°17'07½"	2546 2834	+258.48		+258.47	

F.B. 1882 PG. 846

Map No.	W. O. 8907.4 Tape No. St'd. °F
Office Work	Surveyed by J.S. Coates
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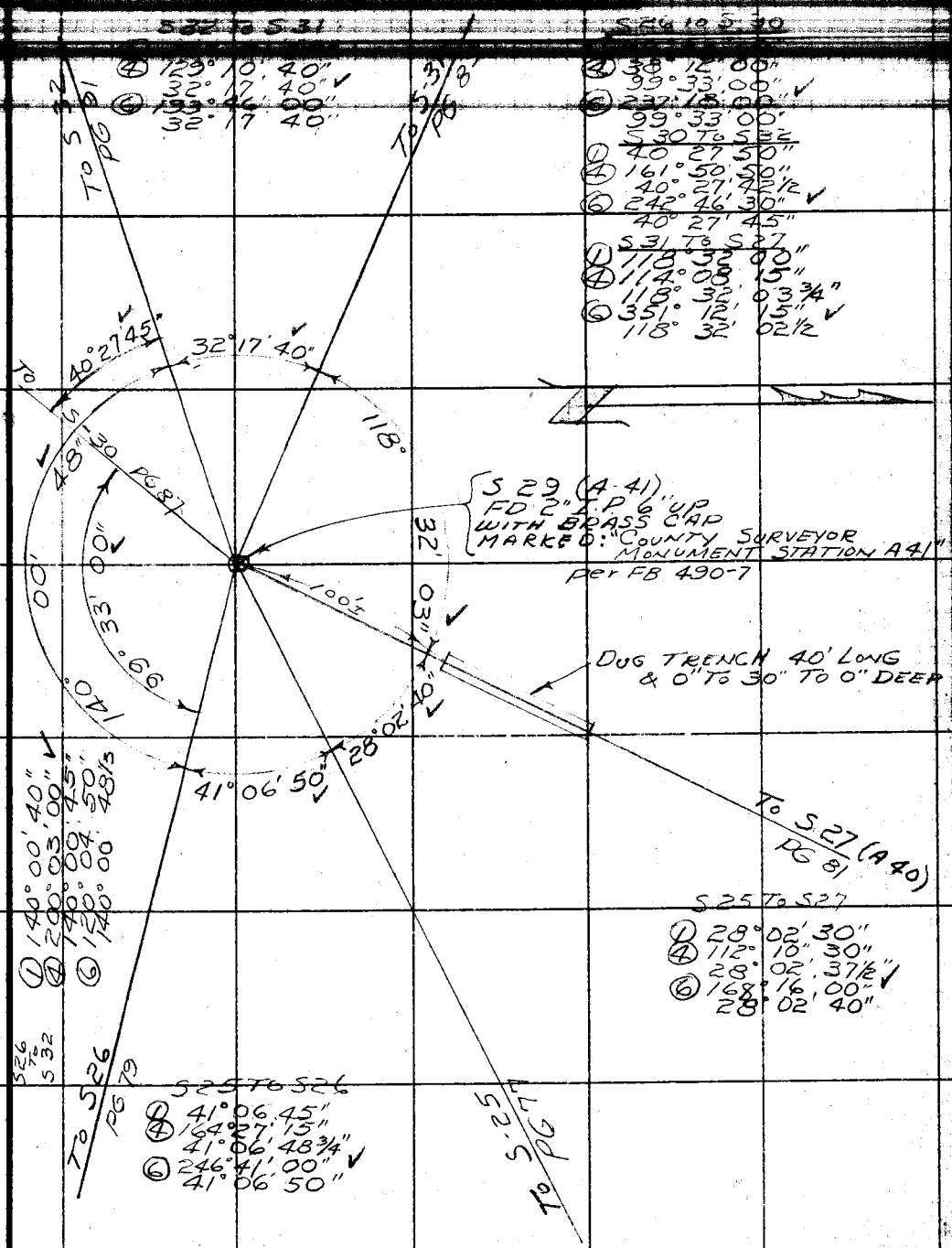
Date	Indexed C. Johnson



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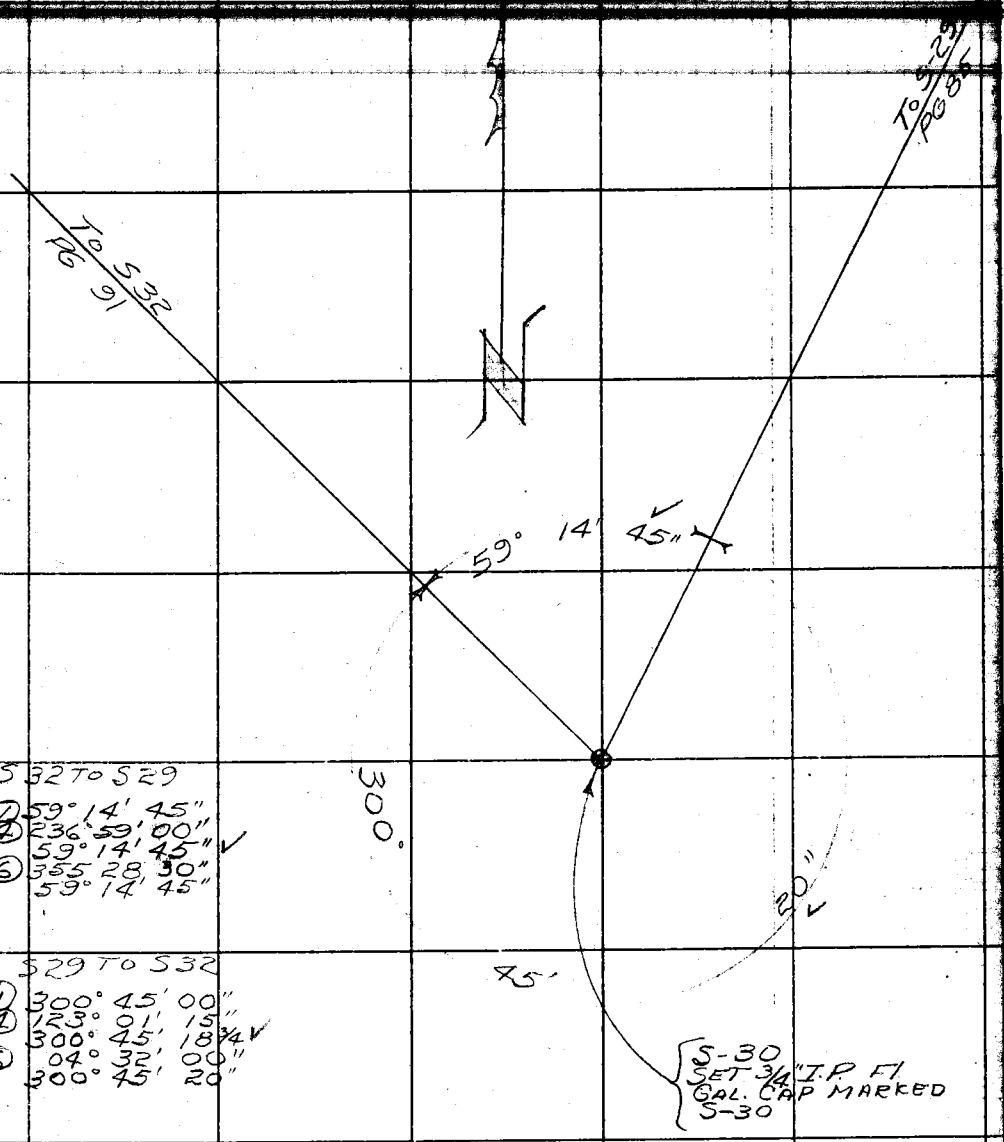
TRANSIT AT STATION S-29 (A41) F.B. 1882 PG. _____ H.I. 4.41

SIGHT ON	-ROD	±VERTICAL ANGLE	HORIZONTAL DISTANCE	± VERTICAL DISTANCE	+CURVATURE +CORRECTION	±DIFFERENCE ELEVATION	ADJUSTED DIFF. ELEV.	
S-26	-7.00	-1°34'30" -1°34'20" -1°34'25"	2346.074 02747160	-64.45		-67.04		
	-.00	-1°35'10 -1°35'20						
		-1°35'15	02771419 ✓	-63.02		-66.61		
S-32	-10.00	+7°50'00" 7°50'00" +7°50'00"	2705.618 13757570	+372.23		+366.64		
	-5.00	+7°44'00" +7°44'00" +7°44'00"	13579776	+367.42		+366.83		
S-31	-9.00	+2°27'20" +2°27'10" +2°27'15"	2581.432 04285950	+110.64		+106.05		
	-2.00	+2°18'20" +2°18'20" +2°18'20"	04026127	+103.93		+106.34		
S-25	-9.00	+6°10'10" -6°10'10"	3173.367					
		-6°10'10"	10809521.	-343.03		-347.62		
	-3.00	-6°16'10" -6°16'20"						
		-6°16'15"	10988580	-348.71		-347.30		
S-30	-9.00	+8°47'40" +8°47'20" 8°47'30"	3,103.289 15465925	+479.95		+475.36		
	-2.00	+8°39'10" +8°39'00" +8°39'05"	1521.5333 ✓	+472.18		+474.59 ✓		
(S27 (A40)	-10.00	NOTE: NEW H.I. = 7.46 FOR LINE S-29 TO S-27 -14°36'00" -14°36'00"	2158.485.					
	-9.00	-14°36'00" -14°37'30" -14°37'15"	26048049	-562.24		-564.78		
		-14°37'22½	26091023	-563.17		-564.71		

F.B. 1882 PG. 86

Map No.	W. O. 09071 Tape No. ____ St'd. ____ °F
Office Work	Surveyed by J. S. COATES
Checked	Notes J.S.C. Date 8-2-55
Date	Indexed A. C. Johnson



S32 TO S29

1 59° 14' 45"
4 236° 59' 00"
59° 14' 45"
6 355 28' 30"
59° 14' 45"

S29 TO S32

1 300° 45' 00"
4 123° 01' 15"
300° 45' 18 3/4
6 04° 32' 00"
300° 45' 20"

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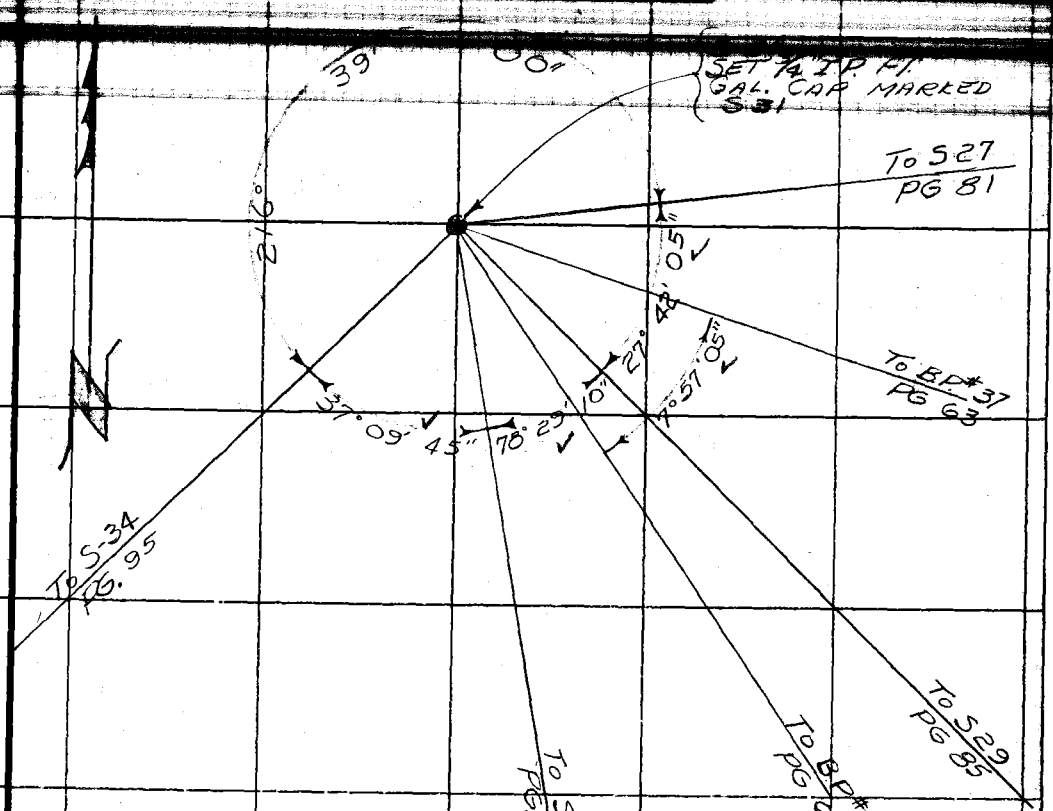
TRANSIT AT STATION S 30 F.B. 1882 PG ____ H.I. 4.69

SIGHT ON	- ROD	± VERTICAL ANGLE	HORIZONTAL DISTANCE	± VERTICAL DISTANCE	+ CURVATURE CORRECTION	± DIFFERENCE ELEVATION	ADJUSTED DIFF. ELEV.
S-32	-10.00	-2° 34' 00"	2043.140				
		-2° 34' 00"					
		-2° 34' 00"	0443 2677	-91.59	-96.90		
	-5.00	-3° 02' 00"					
		-3° 02' 15"					
		-3° 02' 07½"	0530 3007	-108.35	-108.66		
S-29 (A41)	-10.00	-8° 37' 30"	3,103.289				
		-8° 37' 15"					
		-8° 37' 22½"	1516 4741	-470.61	-475.92		
	-4.00	-8° 43' 45"					
		-8° 43' 45"					
		-8° 43' 45"	1535 4252	-476.49	-475.80		

F.B. 1882 Pg. 88

Map No. _____ W. O. 0907-11 Tape No. _____ St'd. _____ °F
Office Work _____ Surveyed by: J.S. COATES
Checked _____ Notes JSC Date 8-3-55
Date _____ Indexed _____



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BP.#37 TO BP#39

Ⓓ	7°57'00
Ⓐ	31°48'15"
	7°57'03¾"
Ⓒ	47°42'30"
	7°57'05"

S-27 TO S 29

Ⓓ	27°42'00"
Ⓐ	110°48'15"
	27°42'03¾"
Ⓒ	166°12'30"
	27°42'05"

S-29 TO S 32

Ⓓ	78°29'15"
Ⓐ	313°56'45"
	78°29'11¼"
Ⓒ	110°55'15"
	78°29'12½

S 32 TO S 34

Ⓓ	37°10'00"
Ⓐ	148°39'00"
	37°09'45"
Ⓒ	222°58'30"
	37°09'45"

S 34 TO S27

Ⓓ	216°39'00"
Ⓐ	146°36'00"
	216°39'00"
Ⓒ	219°54'00"
	216°39'00"

7672008 247 4-58

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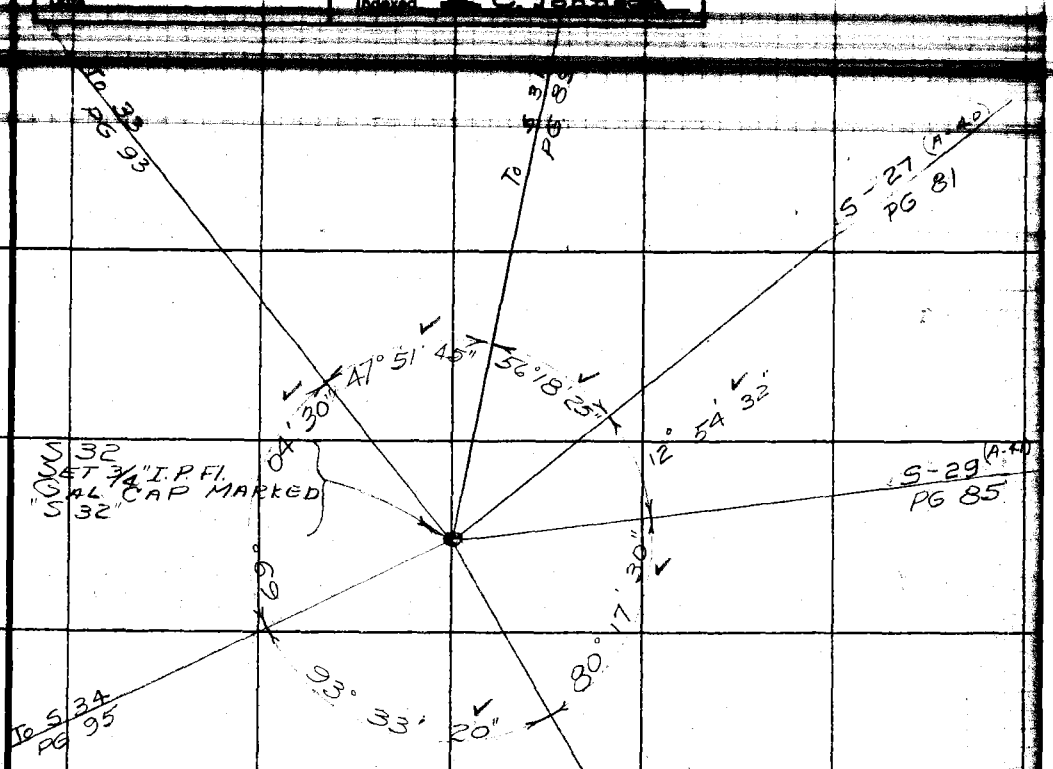
TRANSIT AT STATION S-31 FB. 1882 PG. ____ H.I. 4.79

SIGHT ON	- ROD	± VERTICAL ANGLE	HORIZONTAL DISTANCE	± VERTICAL DISTANCE	+ CURVATURE CORRECTION	± DIFFERENCE ELEVATION	ADJUSTED DIFF. ELEV.
B.P.#37	-5.00	-6° 13' 45" -6° 14' 00" -6° 13' 52½"	2046.373 10918910	-223.44		-223.65	
	-1.00	-6° 19' 45" -6° 20' 00" -6° 19' 52½"	11095558	-227.06		-223.27	
B.P.#39	-10.00	-5° 53' 45" -5° 53' 30" -5° 53' 37½"	2,010.897 10323215	-207.59		-212.80	
	-3.00	-6° 05' 15" -6° 05' 00" -6° 05' 07½"	10661420	-214.39		-212.60	
S-27 (A40)	-9.00	-9° 17' 15" -9° 17' 30" -9° 17' 22½"	4.080.047 16357210	-667.38		-671.59	
	-4.00	-9° 21' 00" -9° 21' 00" -9° 21' 00"	16465247	-671.79		-671.00	
S-29 (A41)	-10.00	-2° 15' 15" -2° 15' 00" -2° 15' 07½"	2581.432 03932895	-101.53		-106.74	
	-5.00	-2° 21' 30" -2° 21' 15" -2° 21' 22½"	04114995	-106.23		-106.44	
S-32	-9.00	+10° 11' 00" +10° 11' 00" +10° 11' 00"	1475.048 17962811	+264.96		+260.75	
	-2.00	+9° 55' 45" +9° 55' 45" +9° 55' 45"	17505255	+258.21		+261.00	
S-34	-6.00	+6° 50' 30" +6° 50' 30" +6° 50' 30"	3010.767 11998041	+361.23		+360.02	
	-3.00	+6° 47' 15" +6° 47' 00" +6° 47' 07½"	11898710	+358.24		+360.03	

F.B. 1882 Pg. 90

Map No. _____ W. O. 0907 Tape No. _____ St'd. _____ °F
Office Work _____ Surveyed by: J.S.GATES
Checked _____ Notes _____ Date _____
Date _____ Indexed _____



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S 27 rt to S 29

1)	12°	54'	15"
4)	51°	38'	00"
	12°	54'	30"
6)	77°	27'	15"
	12°	54'	32½"

S 34 rt to S 33

1)	69°	04'	30"
4)	276°	18'	00"
	69°	04'	30"
6)	54°	27'	00"
	69°	04'	30"

S 29 rt to S 30

1)	80°	17'	30"
4)	321°	10'	00"
	80°	17'	30"
6)	121°	45'	00"
	80°	17'	30"

S 33 rt to S 31

1)	47°	52'	00"
4)	191°	29'	00"
	47°	51'	45"
6)	287°	18'	30"
	47°	51'	45"

S 30 rt to S 34

1)	93°	33'	15"
4)	14°	13'	15"
	93°	33'	18¾"
6)	201°	20'	00"
	93°	33'	20"

S 31 rt to 27

1)	56°	18'	15"
4)	225°	13'	30"
	56°	18'	22½"
6)	337°	50'	30"
	56°	18'	25"

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TRANSIT AT STATION S32 F.B. 1882 PG. ____ H.I. 4.74

SIGHT ON	- ROD	± VERTICAL ANGLE	HORIZONTAL DISTANCE	± VERTICAL DISTANCE	+ CURVATURE CORRECTION	± DIFFERENCE ELEVATION	ADJUSTED DIFF. ELEV.
S-27 (A40)	-10.00	-11° 07' 45"	4,709.364				
		-11° 08' 00"					
		-11° 07' 52½"	19676191	-926.62		-931.88	
	-1.00	-11° 14' 45"					
		-11° 14' 45"					
		-11° 14' 45"	19883677	-936.39		-932.65	
S-29 (A41)	-10.00	- 7° 37' 15"	2,705.618				
		- 7° 37' 00"					
		- 7° 37' 08"	13376404	-361.91		-367.17	
	- 3.00	-7° 46' 30"					
		-7° 46' 15"					
		-7° 46' 22½	13650390	-369.33		-367.59	
S-30	-5.00	+3° 03' 00"	2,043.140				
		+ 3° 03' 00"					
		+ 3° 03' 00"	05328288	+ 108.86		+108.60	
	-1.00	+2° 56' 30"					
		+2° 56' 30"					
		+2° 56' 30"	05138693	+ 104.99		+108.73	
S-31	-10.00	-9° 50' 00"	1475.048				
		-9° 50' 15"					
		9° 50' 07½	17336912	-255.73		-260.99	
	-1.00	-10° 10' 15"					
		-10° 10' 30"					
		-10° 10' 22½"	17944295	-264.69		-260.95	
S-33	-10.00	-13° 58' 30"	2026.579				
		-13° 58' 15"					
		- 13° 58' 22½	24982856	-504.27		-509.53	
	- 1.00	- 14° 12' 30"					
		-14° 12' 30"					
		-14° 12' 30"	25319366	-513.12		-509.38	
S-34	-5.00	+2° 47' 30"	2040.081				
		+2° 41' 45"					
		2° 47 37½"	04830125	+ 99.56		+99.30	
	-1.00	+2° 40' 30"					
		+2° 40' 30"					
		+2° 40' 30"	04672151	+ 95.32		+99.06	

F.B. 1882 Pg. 92

Map No. _____
Office Work _____
Checked _____
Date _____

W. O. 8907.14 Tape No. _____ St'd. _____ °F
Surveyed by: J.S. COATES
Notes _____ Date 9-5-57
Indexed C. Johnson

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BP #68 To B.P		S 34 To S 33	
①	15° 29' 45"	①	43° 18' 15"
④	61° 58' 30"	④	173 13 00
⑥	15° 29' 37½" ✓	⑥	43° 18' 15" ✓
	92 57 45		259 49 30
	15 29 37½"		43° 18' 15"

S 32 To S 34		S 35 To S 32	
①	55° 44' 30"	①	260° 57' 15"
④	222° 57' 00"	④	323 49 30 ✓
	55° 44' 15" ✓	⑥	260 57 22½
⑥	334° 25' 30"		125 44 30
	55° 44' 15"		260 57' 25"

FORM 247 4-58

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TRANSIT AT STATION S32 F.B. 1882 PG ____ H.I. 4.97

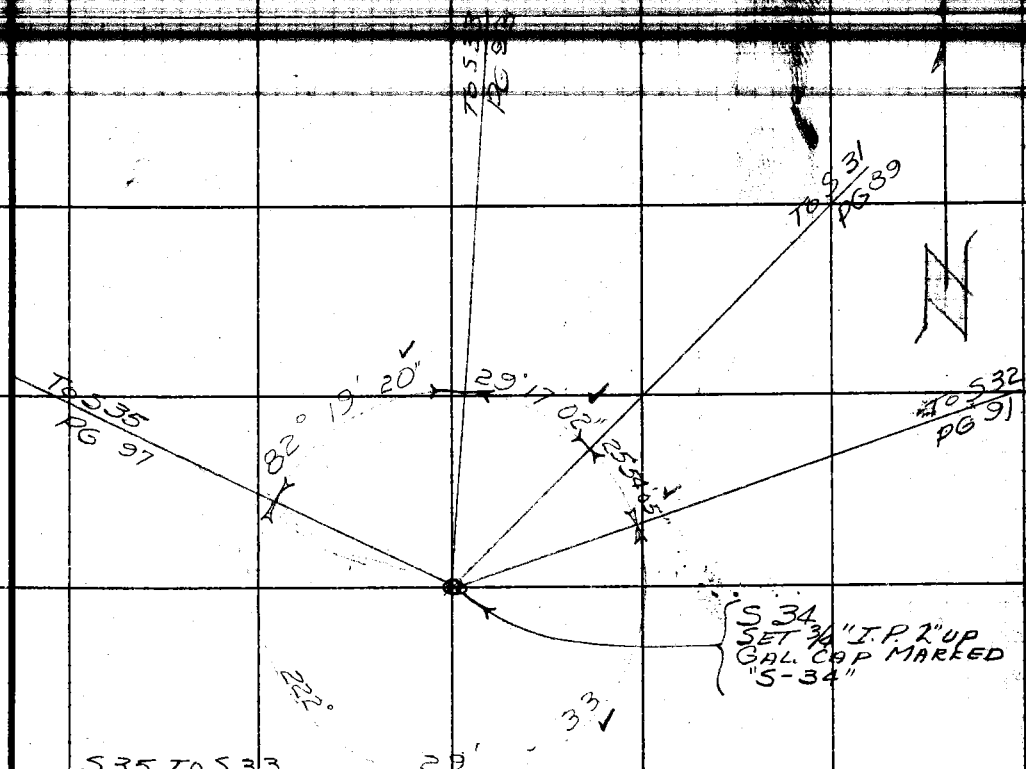
SIGHT ON	-ROD	± VERTICAL ANGLE	HORIZONTAL DISTANCE	± VERTICAL DISTANCE	+ CURVATURE CORRECTION	± DIFFERENCE ELEVATION	ADJUSTED DIFF. ELEV.
S-32	-10.00	+ 14° 14' 15"	2026.579				
		+ 14° 14' 15"					
		+ 14° 14' 15"	25373542	+ 514.21		+ 509.18	
	-3.00	+ 14° 12' 30"					
		+ 14° 12' 15"					
		+ 14° 12' 22½"	25315755	+ 513.04		+ 509.01	
S-34	-10.00	+ 14° 54' 00"	2305.601				
		+ 14° 54' 00"					
		+ 14° 54' 00"	26607943	+ 613.47		+ 608.44	
	-7.00	+ 14° 49' 30"					
		+ 14° 49' 30"					
		+ 14° 49' 30"	26467824	+ 610.24		+ 608.21	
S-35	-9.00	+ 3° 52' 30"	2811.073				
		+ 3° 52' 15"					
		+ 3° 52' 22½"	06770072	+ 190.31		+ 186.28	
	-2.00	+ 3° 43' 30"					
		+ 3° 43' 30"					
		+ 3° 43' 30"	06510527	+ 183.02		+ 185.99	
BP 68	-10.00	+ 10° 10' 00"	1427.410				
		+ 10° 10' 15"					
		+ 10° 10' 07½"	17936788	+ 256.03		+ 251.00	
	-2.00	+ 9° 51' 15"					
		+ 9° 51' 00"					
		+ 9° 51' 07½"	17366878	+ 247.90		+ 250.87	
BP 74	-8.00	+ 6° 45' 15"	2012.755				
		+ 6° 45' 30"					
		+ 6° 45' 22½"	11847087	+ 238.38		+ 235.35	
	-1.00	+ 6° 33' 45"					
		+ 6° 34' 00"					
		+ 6° 33' 52½"	11508004	+ 231.56		+ 235.53	

F.B. 1882 PG. 94

F.B. Pg. 95

Map No.
Office Work
Checked
Date

W. O. 967.11 Tape No. St'd. °F
Surveyed by J.S. Coates
Notes J.S.C. Date 8-5-55
Indexed C. Johnson



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S35 TO S33

1 82° 19' 15"
4 329° 17' 30"
82° 19' 22 1/3 ✓
6 133° 56' 00"
82° 19' 20"

Note I used a 30" stand for Transit

S33 TO S31

1 29° 17' 00"
4 117° 08' 00"
29° 17' 00" ✓
6 175° 42' 15"
29 17' 02 1/2

S31 TO S32

1 25° 54' 00
4 103° 36' 15"
25° 54' 03 3/4 ✓
6 155° 24' 30"
25° 54' 05"

S32 TO S35

1 222° 29' 45"
4 169° 58' 15" ✓
222° 29' 33 3/4"
6 254° 57' 15"
222° 29' 32 1/2"

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TRANSIT AT STATION S-34 FB 1882 PG ____ H.I. 7.67

SIGHT ON	ROD	+Vertical Angle -	HORIZONTAL DISTANCE	±VERTICAL DISTANCE	±CURVATURE CORRECTION	±DIFFERENCE ELEVATION	ADJUSTED DIFF ELEV.
S-35	-10.00	-12° 11' 00" -12° 11' 15"	1945.475				
		-12° 11' 07½"	21594378	-420.11		-422.44	
	-2.00	-12° 24' 15" -12° 24' 30"					
		-12° 24' 22½"	21993116	-427.97		-422.30	
S-33	-10.00	-14° 43' 45" -14° 44' 00"	2305.601				
		-14° 43' 52½"	26293072	-606.21		-608.54	
	-1.00	-14° 56' 45" -14° 57' 00"					
		-14° 56' 52½"	26697774	-615.54		-608.87	
S-31	-10.00	-6° 46' 45"	3010.767				
		-6° 46' 45"	11887402	-357.90		-360.23	
	-1.00	-6° 57' 00" -6° 57' 15"					
		-6° 57' 07½"	12193820	-367.13		-360.46	
S-32	-10.00	-2° 43' 30"	2040[illegible]8.1				
		-2° 43' 30"					
		-2° 43' 30"	04259611	-97.10		-99.43	
	-5.00	-2° 52' 00" -2° 52' 00"	05007456	-102.16		-99.49	
		-2° 52' 00"					

F.B. 1882 PG. 9

F. B. PG 17

Map No.
Office Work
Checked
Date

W. O. Tape No. St'd. °F
Surveyed by: J.S.C. 1975
Notes J.S.C. Date 9-4-35
Indexed C. Johnson

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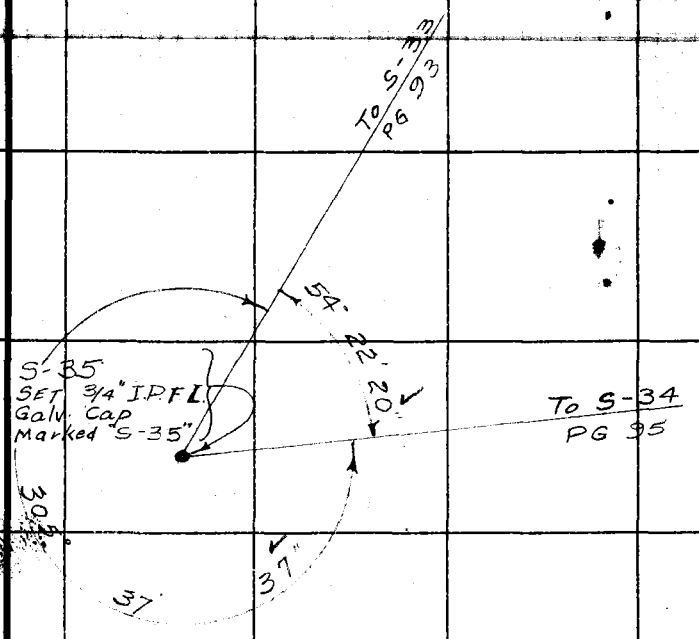

S 33 rt to S 34

1) 54 22 15
4) 217 29 15
54 22 18½
6) 326 14 00
54 22 20

S 34 rt to S 33

1) 305 37 30
4) 142 30 30
305 37 37½
6) 33 45 45
305 37 37½

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TRANSIT AT STATION S-35 F.B. 1882 PG. H.I. 5.16'

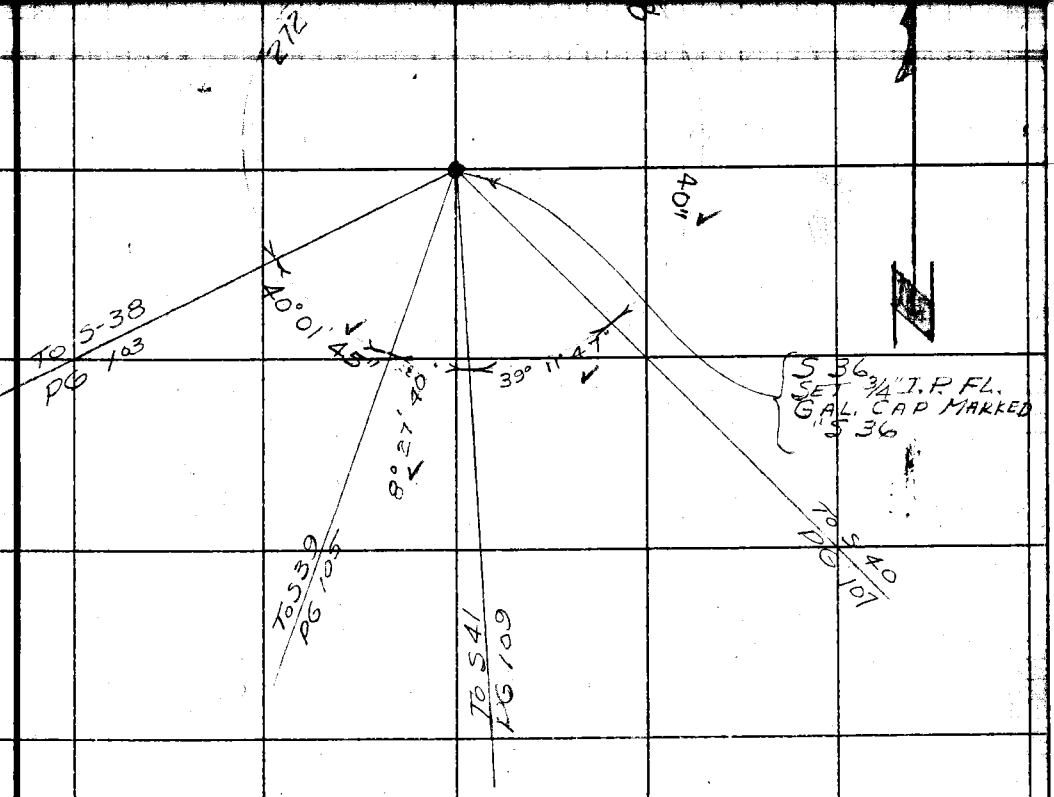
SIGHT ON	-ROD	± Vertical - Angle	Horizontal Distance	± VERTICAL DISTANCE	+ CURVATURE CORRECTION	± DIFFERENCE ELEVATION	ADJUSTED DIFF ELEV.
S-33	-9.00	- 3° 42' 30"	2,811.073	-182.10		-185.94	
		- 3° 42' 15"	06477907				
		- 3° 42' 22.5"					
	-1.00	- 3° 53' 00"	06788093	-190.82		-186.66	
		- 3° 53' 00"					
		- 3° 53' 00"					
S-34	-9.00	+ 12° 21' 15"	1945.475				
		+ 12° 21' 15"	2.1902579	+426.11		+422.27	
		+ 12° 21' 15"					
	-8.00	+ 12 19 45	21856857	+425.23		+422.38	
		+ 12 19 45					
		+ 12 19 45					

F.B. 1882 PG. 28

F.B. PG. 22

Map No.
Office Work
Checked
Date

W. O. Tape No. St'd. °F
Surveyed by J. S. COATES
Notes J.S.C. Date 8-3-35
Indexed R. C. Johnson



S 40 HTO S 41

1) 39° 11' 45"
4) 156 47 00
39° 11' 45" ✓
6) 235° 10' 45"
39° 11' 47½"

S 39 HTO S 38

1) 40° 01' 45"
4) 160° 07' 00"
40 01' 45" ✓
6) 240 10' 30"
40 01 45"

S 41 HTO S 39

1) 8° 27' 45"
4) 33° 50' 45"
8° 27' 41¼" ✓
6) 50° 46' 00"
8° 27' 40"

S 38 HTO S 40

1) 272° 18' 30"
4) 9° 14' 45"
272° 18' 41½" ✓
6) 193° 52 00
272 18 40"

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TRANSIT AT STATION S [illegible] FB 1882 PG. H.I. 4.75

SIGHT ON	- ROD	± VERTICAL ANGLE	HORIZONTAL DISTANCE	± VERTICAL DISTANCE	+ CURVATURE CORRECTION	± DIFFERENCE ELEVATION	ADJUSTED DIFF ELEV.
S 40	-10.00	+ 2° 20' 30"	2135.064				
		+ 2° 20' 30"					
		+ 2° 20' 30"	04089256	+ 87.31	+82.06		
	- 3.00	+ 2° 08' 30"					
		+ 2° 08' 15"					
		+ 2° 08' 22½"	03736257	+ 79.77	+81.52		
S 41	-10.00	+ 0° 40' 00"	3599.976				
		+ 0° 40' 15"					
		+ 0° 40' 07½"	01167484	+42.03	+36.78		
	- 1.00	+ 0° 31' 45"					
		+ 0° 32' 00"					
		+ 0° 31' 52½"	00327475	+ 33.39	+37.14		
S 38	-10.00	- 10° 53' 45"					
		- 10° 53' 30"	3187.178				
		- 10° 53' 37½"	19245904	- 613.40	-618.65		
	- 1.00	- 11° 03' 00"					
		- 11° 03' 00"					
		- 11° 03' 00"	19528610	- 622.41	-618.66		
S 39	-10.00	- 8° 54' 00"	2716.575				
		- 8° 53' 45"					
		- 8° 53' 52½"	15656105	-425.31	-430.56		
	- 1.00	- 9° 04' 45"					
		- 9° 04' 45"					
		- 9° 04' 45"	15980113	- 434.11	-430.36		

F.B. 1882 PG. 108

F.B. PG.

Map No.
Office Work
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Date

W. O. Tape No. St'd. °F
Surveyed by J.S. COATES
Notes J.S.C. Date 8-8-55
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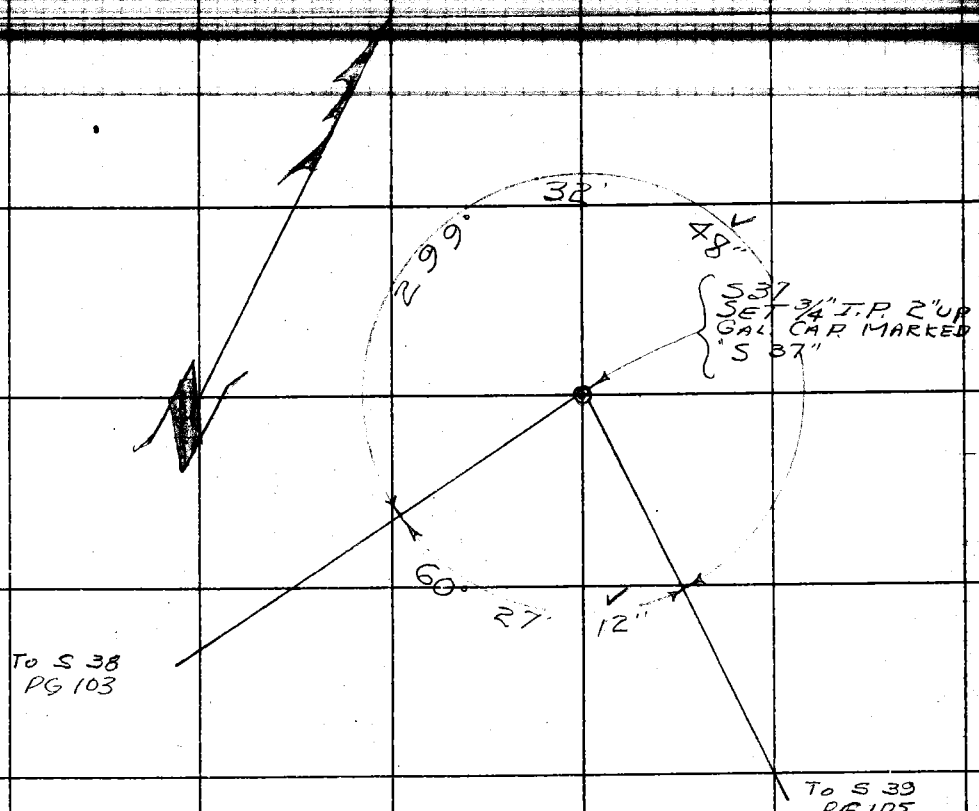

S 39 Lt to S 38

1) 60° 27' 00"+
4) 241° 49' 00+
60° 27' 15" ✓
6) 362° 43' 15"
60° 27' 12½"

S 38 Lt To S 39

1) 299° 32' 45"
4) 118° 11' 15"
299° 32' 48¾" ✓
6) 357° 16' 45"
299° 32' 47½"

Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

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76F3095 247 4-53

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TRANSIT AT STATION S 37 F.B. 1882 PG 102 H.I. 4.74

SIGHT ON	- ROD	+ Vertical - Angle	HORIZONTAL DISTANCE	± VERTICAL DISTANCE	+ CURVATURE CORRECTION	± DIFFERENCE ELEVATION	ADJUSTED DIFF. ELEV.
S 39	10.00	+ 4° 12' 30" + 4° 12' 15" + 4° 12' 22½"	2,334.717 0735 4752	+ 171.71	+ 166.45		
	- 2.00	+ 4° 00' 15" + 4° 00' 00" + 4° 00' 07½"	0699 6579	+ 163.35	+ 166.09		
S 38	10.00	- 0° 37' 15" - 0° 37' 00" - 0° 37' 07½"	1,542.426 0108 0207	- 16.66	- 21.92		
	- 1.00	- 0° 57' 30" - 0° 57' 15" - 0° 57' 22½"	0166 9369	- 25.75	- 22.01		

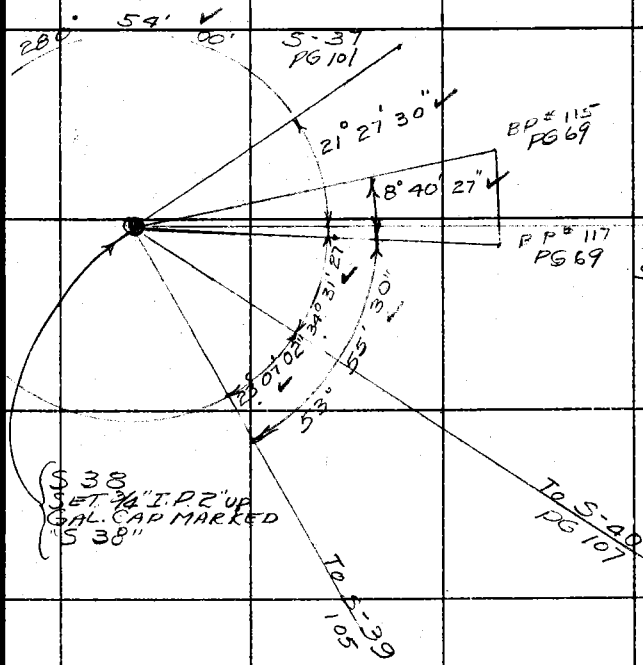
F.B. 1882 PG. 102

F.B. Pg. 103

Map No.
Office Work
Checked
Date

W. O. Tape No. St'd. °F
Surveyed by J.S. Coates
Notes J.S.C. Date 8-5-55
Indexed A. C. Johnson

S-37 rt To S-36
1) 21° 27' 30"
4) 85° 50' 00"
21° 27' 30" ✓
6) 128° 45' 00"
21° 27' 30"



S-36 rt to S 40
1) 34° 31' 30"
4) 138° 06' 00"
34° 31' 30" ✓
6) 207° 08' 45"
34° 31' 27½

S-40 rt To S 39
1) 23° 07' 00"
4) 92° 28' 15
23° 07' 03¾" ✓
6) 138° 42' 15"
23° 07' 02½"

BP# 115 rt To BP# 117
1) 8° 40' 15"
4) 34° 42' 00"
8° 40' 30" ✓
6) 52 02 45
8 40 27½

BP# 117 rt to S-39
1) 53° 55' 30"
4) 215° 41' 45"
53° 55' 26¼" ✓
6) 323° 33' 00"
53 55' 30"

S 39 rt To S 37
1) 280° 53' 45"
4) 43° 36' 00"
280° 54' 00" ✓
6) 245° 24' 00"
280° 54' 00"

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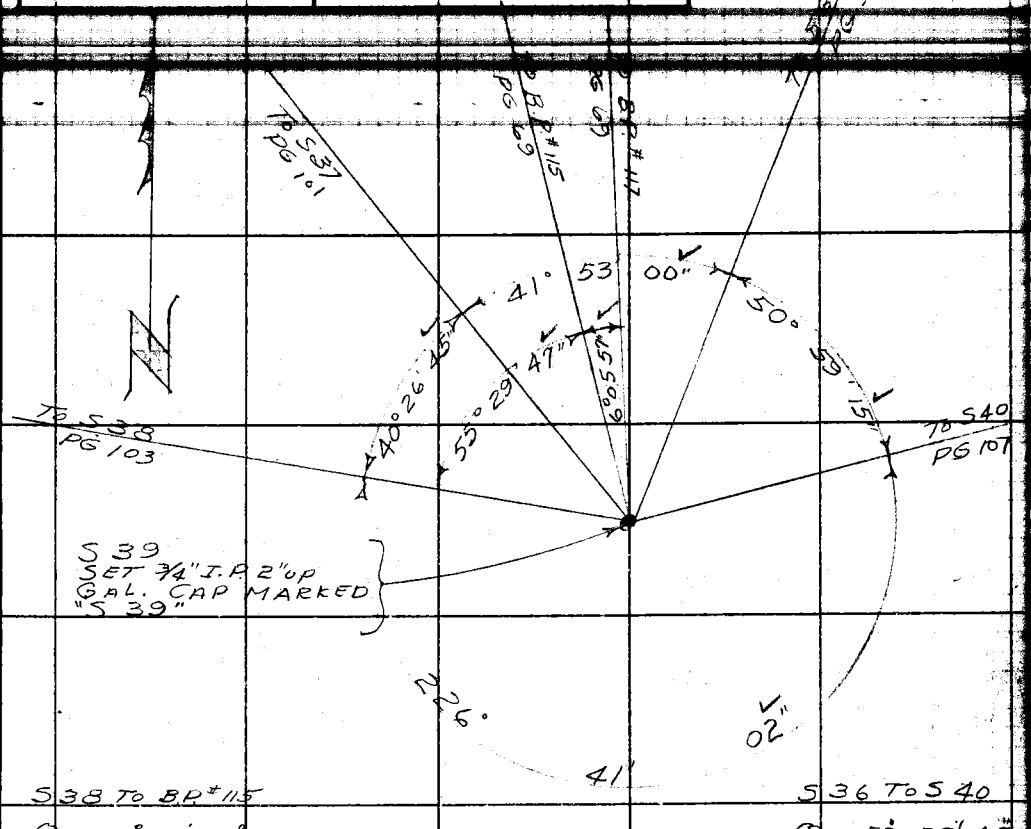
TRANSIT AT STATION S38 F.B 1882 P.G. _____ H.I. 4.54

SIGHT O.N	- ROD	+Vertical - Angle	HORIZONTAL DISTANCE	± VERTICAL DISTANCE	+ CURVATURE CORRECTION	± DIFFERENCE ELEVATION	ADJUSTED DIFF. ELEV.
S-37	- 10.00	+ 1° 01' 45" + 1° 01' 45" + 1° 01' 45"	3,187.178 0179 6228	+57.26	+51.80		
	- 1.00	+ 0° 41' 45" + 0° 41' 30" + 0° 41' 37½	0121 1124	+38.60	+42.14		
BP115	- 10.00	+ 7° 25' 00" + 7° 25' 00" + 7 25 00	1932.225 1301 7313	+251.52	+246.06		
	- 5.00	+ 7° 16' 30" + 7° 16' 15" + 7° 16' 22½	1276 2500	+246.60	+246.14		
BP117	- 9.00	+ 6° 52' 15" + 6° 52' 15" + 6° 52' 15"	2016.065 12049682	+242.93	+238.47		
	- 2.00	+ 6° 40' 30" + 6° 40' 15" + 6° 40' 22½	1169 9627	+235.87	+238.41		
S-36	- 10.00	+ 11° 04' 15" + 11° 04' 15" + 11° 04' 15"	3187.178				
	- 6.00	+ 11° 00' 30" + 11° 00' 30" + 11° 00' 30"	1956 6360 1945 3125	+623.61 +620.01	+618.15 +618.55		
S40	- 9.00	+ 10° 36' 30" + 10° 36' 30" + 10° 36' 30"	3763.968 1872 9546	+704.97	+700.51		
	- 2.00	+ 10° 30' 15" + 10° 30' 00" + 10° 30' 07½"	1853 7916	+697.76	+700.30		
S39	- 10.00	+ 5° 21' 00" + 5° 20' 45" + 5° 20' 52½"	2068.431 0936 1321	+193.63	+188.17		
	- 4.00	+ 5° 11' 15" + 5° 11' 30" + 5° 11' 22½"	0908 2627	+187.87	+188.41		

F.B. 1882 PG. 104

F.B. PG. 105

Map No.	W. O. Tape No. St'd. °F
Office Work	Surveyed by J. S. Coates
Checked	Notes J.S.C. Date 8-5-55
Date	Indexed A. C. Johnson



S38 TO B.P. #115

(1)	55° 29' 30"
(4)	221° 59' 00"
	55° 29' 45"
(6)	332° 58' 45"
	55 29' 47½

S36 TO S40

(1)	50° 59' 15"
(4)	203° 57' 00"
	50° 59' 15"
(6)	305° 55' 30"
	50° 59' 15"

S38 TO S37

(1)	40° 27' 00"
(4)	161° 47' 00"
	40° 26' 45"
(6)	242° 40' 30"
	40° 26' 45"

S40 TO S38

(1)	226° 41' 15"
(4)	186 44 15
	226 41 03½
(6)	280 06 15
	226 41 02½

S37 TO S36

(1)	41° 53' 00"
(4)	167° 32' 00"
	41° 53' 00"
(6)	251° 18' 00"
	41° 53' 00"

B.P. #115 TO B.P. #117

(1)	6° 06' 00"
(4)	24° 24' 00"
	6° 06' 00"
(6)	36° 35' 45"
	6° 05' 57½

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TRANSIT AT STATION S-39 F.B 1882 PG _____ H.I. 5.03

SIGHT ON	-ROD	+Vertical -Angle	HORIZONTAL DISTANCE	±VERTICAL DISTANCE	+CURVATURE CORRECTION	±DIFFERENCE ELEVATION	ADJUSTED DIFF. ELEV.
S-37	-10.00	-3° 56' 45" -3° 57' 00" -3° 56' 52½"	2334.717 06901583	-161.13	-166.10		
	-4.00	-4° 05' 45" -4° 06' 00" -4° 05' 52½"	07164678	-167.27	-166.24		
S-38	-10.00	-5° 03' 15" -5° 03' 15" -5° 03' 15"	2068.431 08844137	-182.93	-187.90		
	-1.00	-5° 19' 00" -5° 19' 00" -5° 19' 00"	09306059	-192.49	-188.46		
B.P.#115	-8.00	+1° 40' 45" +1° 40' 30" +1° 40' 37½"	02938141				
	-3.00	+1° 32' 30" +1° 32' 15" +1° 32' 22½"	02687969				
B.P.#117	-10.00	+1° 43' 15" +1° 43' 00" +1° 43' 07½"	1852.484 03000927	+55.59	+50.62		
	-5.00	+1° 33' 30" +1° 33' 30" +1° 33' 30"	02720476	+50.40	+50.43		
S-36	-10.00	+9° 06' 00" +9° 06' 00" +9° 06' 00"	2716.575 16017405	+435.12	+430.15		
	-4.00	+8° 59' 15" +8° 59' 00" +8° 59' 07½"	15812602	+429.56	+430.59		
S-40	-10.00	+14° 17' 30" +14° 17' 15" +14° 17' 22½"	2031.013 25470578	+517.31	+512.34		
	-1.00	+14° 02' 45" +14° 02' 45" +14° 02' 45"	25017784	+508.11	+512.14		

F.B. 1582 Pg. 106

F.B. Pg. 107

Map No.
Office Work
Checked
Date

W. O. Tape No. St'd. °F
Surveyed by: J.S. GATES
Notes J.S.C. Date 8-3-53
Indexed C. Johnson

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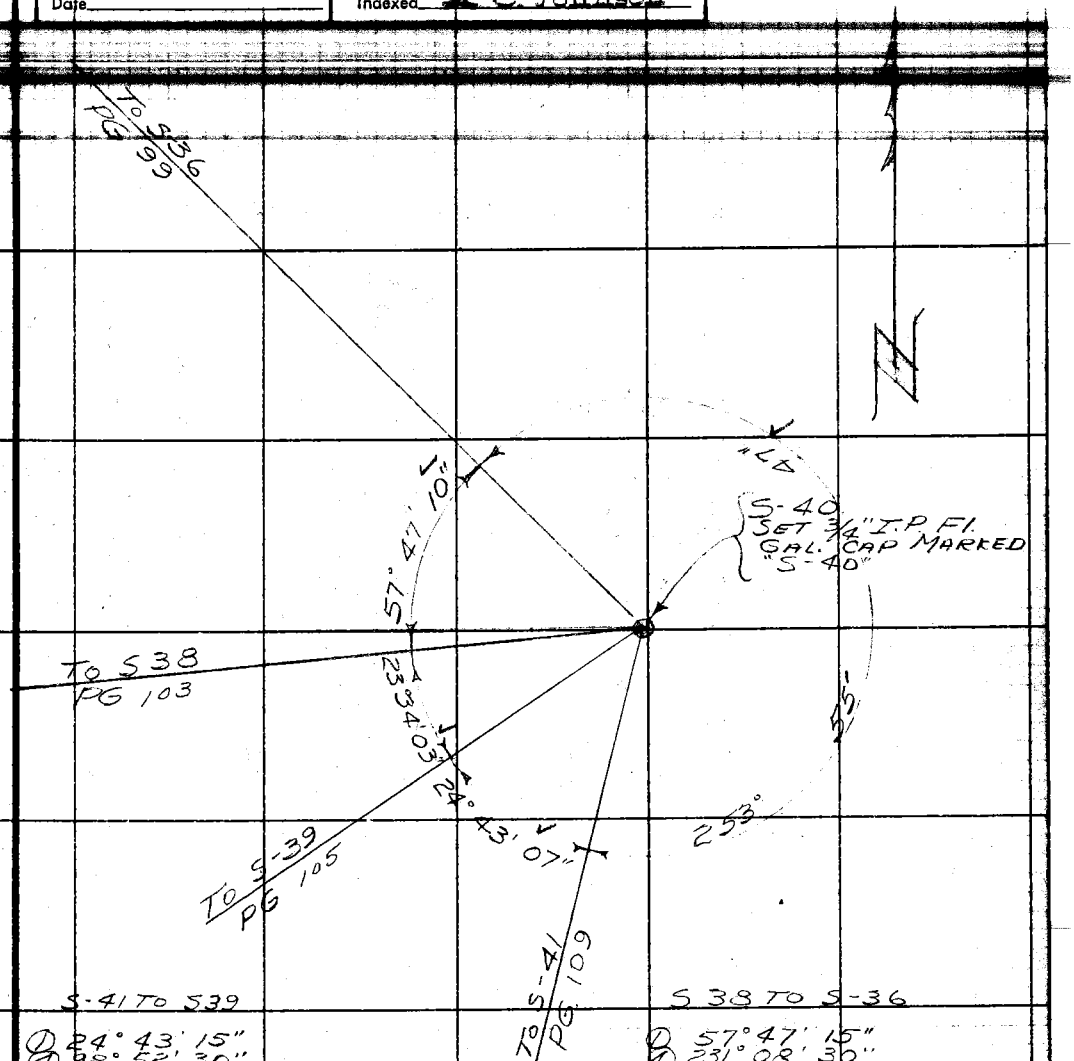

S-41 TO S39

① 24° 43' 15"
④ 98° 52' 30"
24° 43' 07½"
⑥ 148° 18' 45"
24° 43' 07½"

S-39 To S38

① 23° 34' 15"
④ 94° 16' 15"
23° 34' 03¾"
⑥ 141° 24' 15"
23° 34' 02½

S 38 TO S-36

① 57° 47' 15"
④ 231° 08' 30"
57° 47' 07½"
⑥ 346° 43' 00"
57° 47' 10"

S 36 TO S-41

① 253° 55' 30"
④ 295° 43' 00"
253° 55' 45"
⑥ 83° 34' 45
253° 55' 47½"

787S08 247 4-53

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TRANSIT AT STATION 40 F.B. 1882 PG H.I. 5.18

SIGHT ON	- ROD	± VERTICAL ANGLE	HORIZONTAL DISTANCE	± VERTICAL DISTANCE		± DIFFERENCE ELEVATION	ADJUSTED DIFF. ELEV.
S-41	-10.00	- 0° 59' 15"	2367.644				
		- 0° 59' 15"					
		- 0° 59' 15"	01723683	- 40.81	- 45.63		
	-1.00	- 01° 12' 00"					
		- 01° 12' 00"					
		- 01° 12' 00"	02094701	- 49.60	- 45.42		
S-39	-10.00	- 14° 01' 30"	2031.013				
		- 14° 01' 30"					
		- 14° 01' 30"	24979151	- 507.33	- 512.15		
	-1.00	- 14° 16' 30"					
		- 14° 16' 30"					
		- 14° 16' 30"	25443217	- 516.76	- 512.58		
S-38	-10.00	- 10° 28' 30"	3763.968				
		- 10° 28' 15"					
		- 10° 28' 22½"	18485266	- 695.78	- 700.60		
	-1.00	- 10° 36' 15"					
		- 10° 36' 15"					
		- 10° 36' 15"	18722018	- 704.69	- 700.51		
S-36	-10.00	- 2° 04' 30"	2135.064				
		- 2° 04' 15"					
		- 2° 04' 22½"	03619744	- 77.28	- 82.10		
	-3.00	- 2° 15' 45"					
		- 2° 15' 30"					
		- 2° 15' 37½"	03927463	- 84.28	- 82.10		

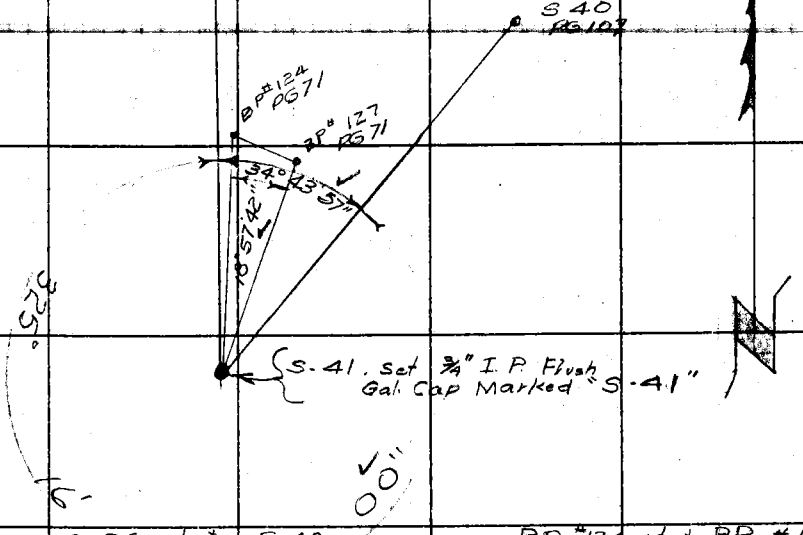
F.B. 1882 PG. 168

E.B. Pg. 107

Map No.
Office Work
Checked
Date

W. O. Tape No. St'd. °F
Surveyed by: J.S. COATES
Notes: J.S.C. Date 8-9-55
Indexed: C. Johnson

S 36



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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

S-36 rt to S 40

1) 34° 43' 45"
4) 138° 55' 45"
6) 34° 43' 56½" ✓
208° 23' 45" ✓
34° 43' 57½"

S-40 rt to S 36

1) 325° 16' 00"
4) 221° 04' 00"
6) 325° 16' 00" ✓
151° 36' 00"
325° 16' 00"

BP #124 rt to BP #127

1) 18° 57' 30"
4) 75° 50' 45"
18° 57' 41½" ✓
6) 113° 46' 15"
18° 57' 42½"

76F3098 247 4-53

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TRANSIT AT STATION S41 FB 1882 PG 110 H.I. 4.35

SIGHT ON	-ROD	+Vertical Angle				
S36	-10.00	- 0° 30' 00"	3599.976			
		- 0° 29' 45"				
		- 0° 29' 52½"	00869293	-31.29	-36.94	
	- 2.00	- 0° 38' 30"				
		- 0° 38' 15"				
		- 0° 38' 22½"	01116572	-40.20	-37.85	
S40	-10.00	+ 1° 14' 15"	2367.644			
		+ 1° 14' 15"				
		+ 1° 14' 15"	02160181	+51.15	+45.50	
	- 1.00	+ 1° 01' 00"				
		+ 1° 00' 45"				
		+ 1° 00' 52½"	01771210	+41.94	+45.29	
BP*124	-10.00	- 11° 25' 45"				
		- 11° 25' 30"	2150.303			
		- 11° 25' 37½"	20212935	-435.45	-441.10	
	- 1.00	- 11° 40' 00"				
		- 11° 40' 00"				
		- 11° 40' 00"	20648339	-444.83	-441.48	
BP*127	-10.00	- 15° 41' 30"	1597.706			
		- 15° 41' 15"				
		- 15° 41' 22½"	28089378	-448.79	-454.44	
	- 1.00	- 15° 59' 45"				
		- 15° 59' 45"				
		- 15° 59' 45"	28666669	-458.01	-454.66	

F.B. 1882 PG. 110

F.B. Pg. 111

Map No. | W. O. | Tape No. | St'd. | °F
Office Work | Surveyed by: J.S. COATES
Checked | Notes J.S.C. Date 8-9-55
Date | Indexed E. C. Johnson

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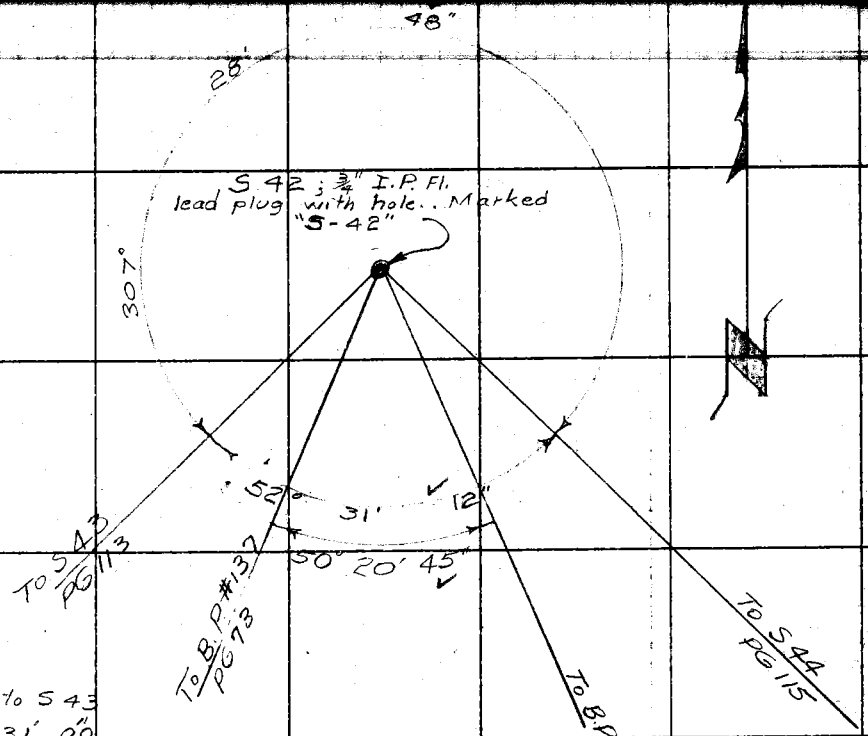

S 44 rt to S 43
1) 52° 31' 00"
4) 210° 04' 45"
52° 31' 11" ✓
6) 315° 07' 00"
52° 31' 10"

S 43 rt to S 44
1) 307° 28' 45"
4) 149° 55' 15" ✓
6) 307° 28' 48"
44 52 45
307 28 47½"

BP #143 rt to BP #137
1) 50° 20' 45"
4) 201° 23' 00" ✓
6) 302° 04' 30"
50° 20' 45"

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TRANSIT AT STATION S-42 F.B. 1882 PG. 112 H.I. 4.40

SIGHT ON	- ROD	± VERTICAL ANGLE	HORIZONTAL DISTANCE	± VERTICAL DIFFERENCE	+ CURVATURE CORRECTION	± DIFFERENCE ELEVATION	ADJUSTED DIFF. ELEV.
S-44	-7.00	-13° 09' 00"	2168.178				
		-13° 09' 15"					
		-13° 09' 07½"	2336 6830	-506.63		-509.23	
	-6.00	-13° 10' 30"					
		-13° 10' 45"					
		-13° 10' 37½"	2341 2850	-507.63		-509.23	
S-43	-6.00	+5° 09' 45"	1922.700				
		+5° 10' 00"					
		+5° 09' 52½"	0903 8635	+173.79		+172.19	
	-1.00	+5° 00' 00"					
		+5° 00' 15"					
		+5° 00' 07½"	0835 2775	+168.29		+171.69	
B.P.#143	-10.00	-7° 32' 00"	1350.778				
		-7° 32' 00"					
		-7° 32' 00"	1322 4440	-178.63		-184.23	
	-3.00	-7° 49' 15"					
		-7° 49' 30"					
		-7° 49' 22½"	1373 9293	-185.59		-184.19	
B.P.#137	-5.00	-6° 27' 15"	970.346				
		-6° 27' 15"					
		-6° 27' 15"	1131 2536	-109.77		-110.37	
	-2.00	-6° 38' 15"					
		-6° 38' 00"					
		-6° 38' 07½"	1163 3286	-112.88		-110.48	

F.B. 1882 PG. 112

F. B. [illegible] Pg. 112

Map No.
Office Work
Checked
Date

W. O. [illegible] Tape No. Sl'd. °F
Surveyed by: J.S. DATES
Notes J.S.C. Date 8-9-55
Indexed A. Johnson

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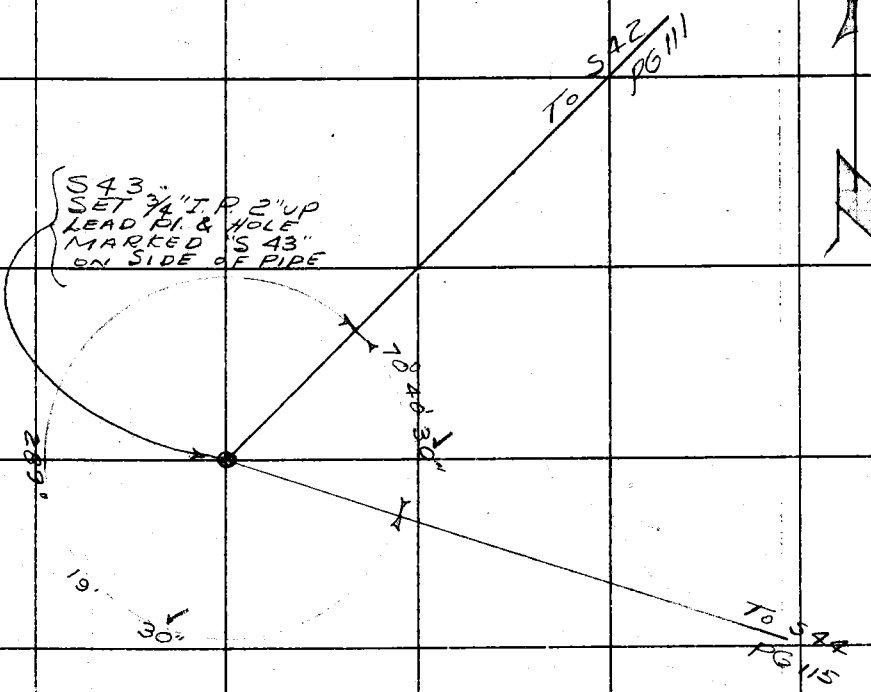

S42 TO S44

(1)	70°	40'	30"
(4)	282°	41'	45"
	70°	40'	26"
(6)	64°	02'	45"
	70	40	27½"

S44 TO S42

(1)	289°	19'	30"
(4)	77°	17'	45"
	289°	19'	26"
(6)	295°	56'	45"
	289	19	27½

78FSOS 247 4-55

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TRANSIT AT STATION S-42 F.B. 1882 PG 114 H.I. 305

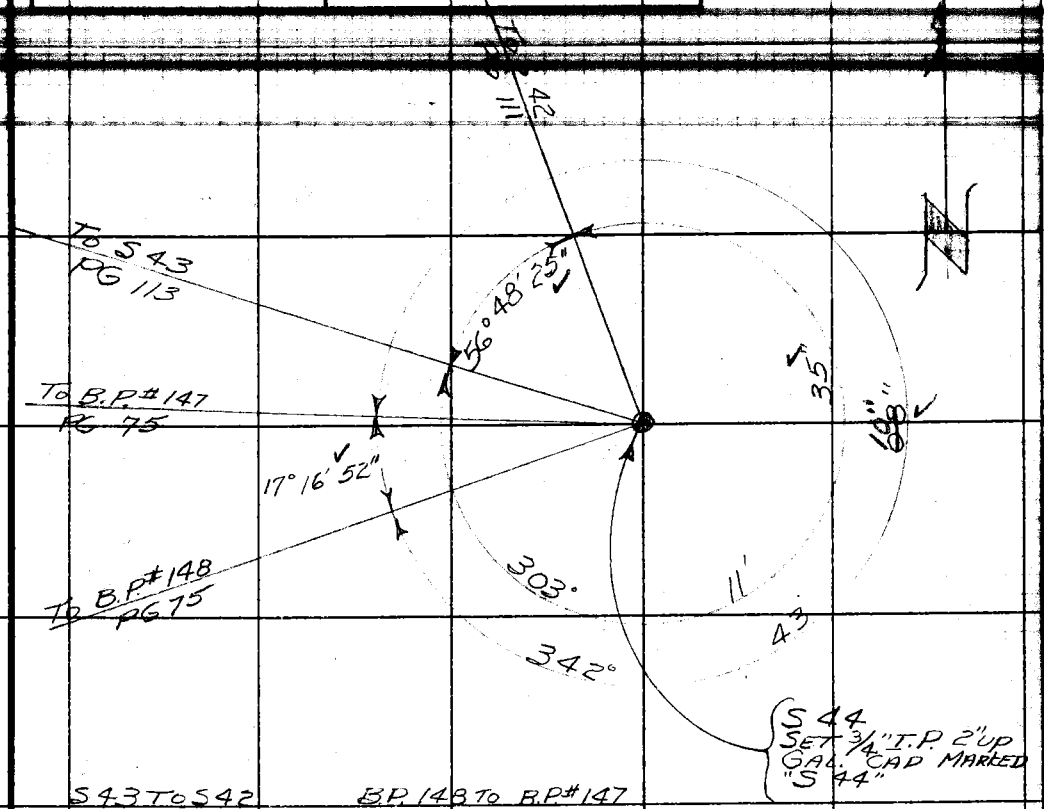
SIGHT ON	ROD	± VERTICAL ANGLE	HORIZONTAL DISTANCE	± VERTICAL DISTANCE	± CURVATURE & REFRACTION CORRECTION	± DIFFERENCE ELEVATION	ADJUSTED DIFF. ELEV.
S-42	4.00	- 5° 05' 00"	1922.700				
		- 5° 04' 45"					
		- 5° 04' 52½"	08892022	-170.97		-171.92	
	1.00	- 5° 10' 30"					
		- 5° 10' 30"					
		- 5° 10' 30"	09036720	-174.13		-172.08	
S-44	10.00	- 20° 14' 30"	1823.310				
		- 20° 14' 45"					
		- 20° 14' 37½"	36879831	-672.43		-679.38	
	4.00	- 20° 24' 15"					
		- 20° 24' 00"					
		- 20° 24' 07½"	37194082	-678.16		-679.11	

F.B. 1882 PG. 114

F.B. Pg.

Map No.
Office Work
Checked
Date

W. O. Tape No. Std. °F
Surveyed by J.S. GATES
Notes J.S.C Date 8-1-55
Indexed A. C. Johnson



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Do not extend notes this side of this line.

RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
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S 43 TO S 42

1) 56° 48' 30"
4) 227° 13' 50"
56° 48' 27 1/2" ✓
6) 340° 50' 30"
56° 48' 25"

B.P. 148 TO B.P.# 147

1) 17° 17' 00"
4) 69° 07' 30"
17° 16' 52 1/2 ✓
6) 103° 41' 10" ✓
17° 16' 51 1/3

S 42 TO S 43

1) 303° 11' 20"
4) 132° 46' 20"
6) 303° 11' 35" ✓
19° 09' 30"
303° 11' 35"

B.P.# 147 TO B.P.# 148

1) 342° 43' 00"
4) 290° 52' 30"
6) 342° 43' 07 1/2 ✓
256° 19' 00"
342° 43' 10"

76P3098 247 4-53

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TRANSIT AT STATION S4+ F.B. 1882 P.G. 116 H.I. 4.65

SIGHT ON	- ROD	+ Vertical - Angle	HORIZONTAL DISTANCE	± VERTICAL DISTANCE	± CURVATURE CORRECTION	± DIFFERENCE ELEVATION	ADJUSTED DIFF. ELEV.
S42	-10.00	+13° 18' 10"	2168.178				
		+13° 18' 00"					
		+13° 18' 05"	2364558	+512.59		+507.24	
	-3.00	+13° 07' 20"					
		+13° 07' 20"					
		+13° 07' 20"	2331618	+505.44		+507.09	
S43	-6.00	+20° 28' 10"	1823.310				
		+20° 28' 20"					
		20° 28' 15"	37330458	+680.65		+679.30	
	-1.00	+20° 19' 50"					
		+20° 20' 00"					
		+20° 19' 55"	37054519	+675.63		+679.27	
B.P.149	-8.50	+13° 02' 40"	1263.473				
		+13° 02' 30"					
		+13° 02' 35"	23165984	+292.70		+288.85	
	-7.50	+12° 59' 30"					
		+12° 59' 40"					
		12° 59' 35"	23074053	+291.53		+288.68	
B.P.#143	-3.00	+11° 44' 50"	1338.949				
		+11° 44' 30"					
		+11° 44' 40"	23189914	+278.37		+280.02	
	-5.00	+11° 49' 30"					
		+11° 49' 10"					
		11° 49' 20"	20931570	+280.26		+279.91	

F.B. 1882 P.G. 116

76F3098 S&E #247. 8-54

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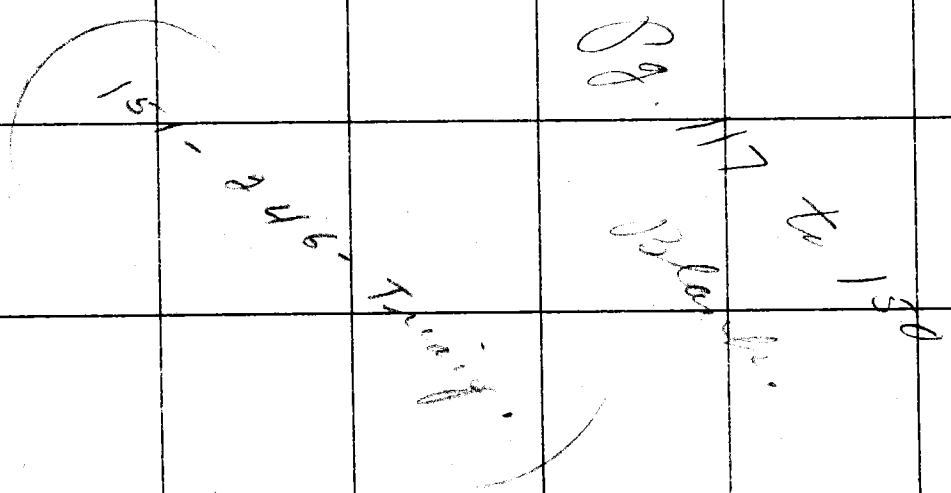
Map No.
Office Work
Checked
Date

W. O. Tape No. Sht.
Surveyed by
Notes Date
Indexed

F. B. Pg.



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F. B. ____ PG. ____

F. B. [illegible] Pg. 151

Map No.
Office Work
Checked
Date

W. O. [illegible] Tape No. Std.
Surveyed by W.S. Cowherd
Notes W.S.C. Date 7/25/55
Indexed 7-28-55

SG △ PT's

FROM SG-28 SOUTH SIDE IRON FORKS
TO SG-63. 4000'± SOUTH OF VINCENT GAP
WITH HORIZONTAL & VERTICAL CONTROLS
TO GEODETIC △ PTS IN EAST FORK
SAN GABRIEL RIVER

F.B. 1882

PARTIES

W.S. COWHERD
J. TERRANOVA
R. STRADER
E. JOLIFFE
L. NICHOLS
L.V. SMITH
V. CROWE
M. WACKER
J. FULTON
R. SWAN

J. Dougherty
J. Bowles
G. Sandoval
A. Goble
D. King
J. Henderson
B. Packard

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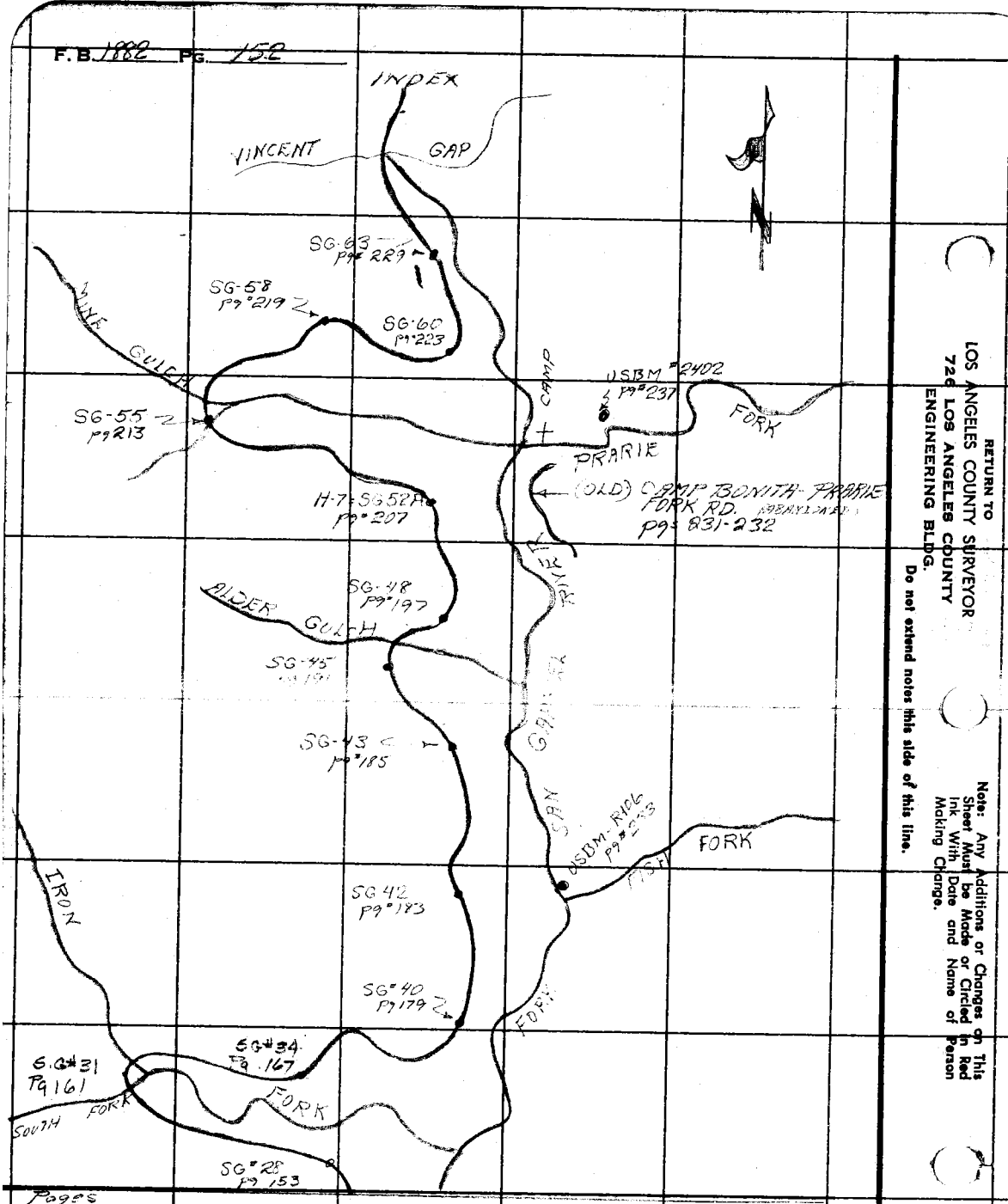
76F309S S&E #247. 6-54

F.B. 1882 PG. 152



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Pages 153 - 230	SG Δ Pts	FROM SG 28 S. Side IRON FORKS To SG 63 4000'± S. VINCENT GAP
231 & 232	———	TIES FROM CAMP BONITA-PRAIRIE FORK RD. TO SG Δ Pts
233	———	ESTABLISHMENT OF Elev. ON SG. 41 & 43 by Trig Methods From USBM R106
235-246	———	LEVELS FROM USBM 2402 TO RI 206 OLD PRAIRIE FORK - CAMP BONITA RD

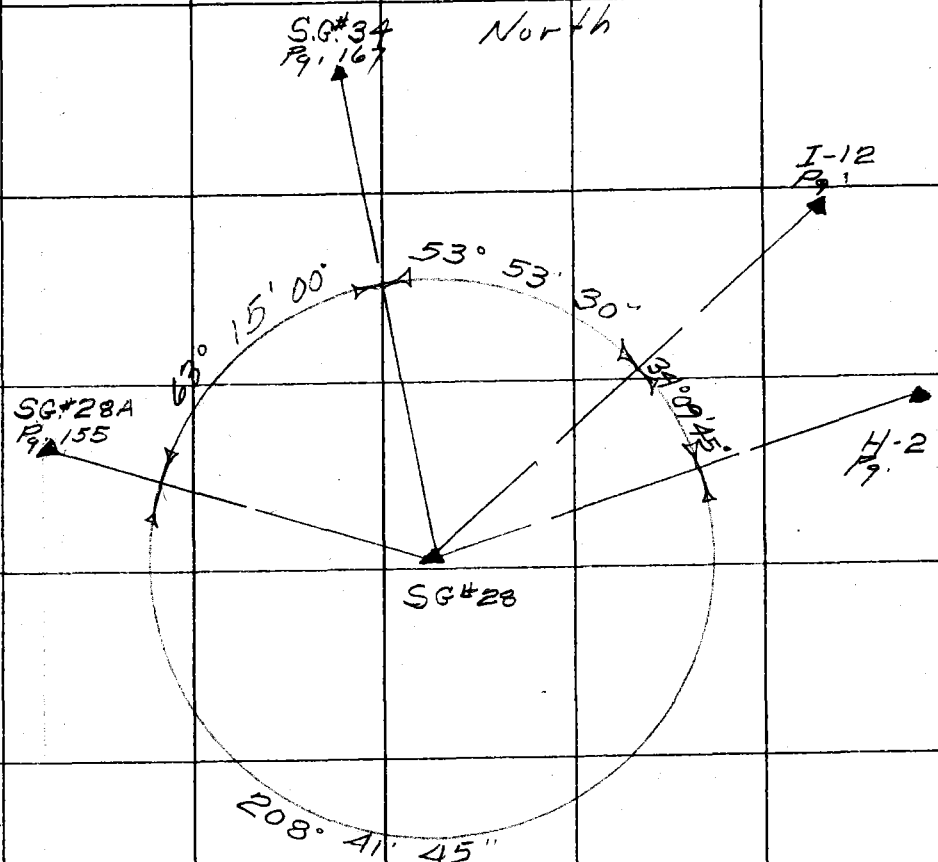
F. B. _____ PG. _____

Map No. _____
Office Work _____
Checked _____
Date _____

W. O. _____ Trips No. _____ Sht. _____
Surveyed by Daugherty
Notes Daugherty Date 7-19-55
C. Johnson
Indexed _____

S.G. # 28

Set 1" I.P. P&T up 1' on Spur So. side Iron Fork.
3500' East of Fork & 600' out of Bottom



ⓒ 126-29-50	ⓒ 107-47-00	ⓒ 68-19-40	ⓒ 417-23-30
Ⓐ 253-00-00	Ⓐ 215-34-20	Ⓐ 136-39-00	Ⓐ 114-46-40
ⓒ 19-30-00	ⓒ 323-21-00	ⓒ 204-58-40	ⓒ 172-10-20
63° 15' 00"	53° 53' 30"	34° 09' 45"	208° 41' 45"

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T@ S.C. #28 F.B. Pg. H.I. = 4.66

Sta	Rod	± Vertical - Angle
H-2	10.00	+9-06-10 +9-06-00 +9°06'05"
I-12	10.00	+5-03-00 +5-03-20 +5°03'10"
S.C.34	10.00	+3°41'20" +3°41'40" +3°41'30"
S.C.28A	10.00	+2-39-00 +2-38-40 +2°38'50"

F.B. 1882 PG. 154

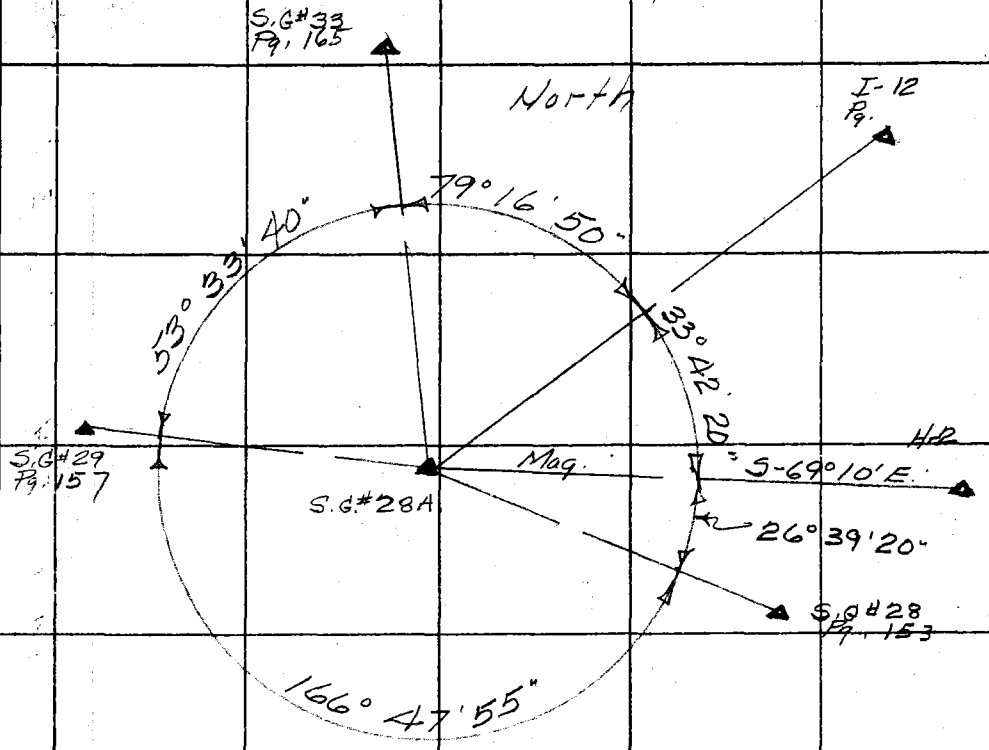
F. B. 1493 Pg. 155

Notes Chk'd by [illegible]
Map No.
Office Work
Checked
Date

Survey of [illegible]
W. O. [illegible] Tape No. [illegible] Sta. [illegible]
Surveyed by Daugherty
Notes Daugherty Date 7-19-55
Indexed [illegible] C Johnson

S.G. #28A

Set 1" I.P. & Galv. Cap Mark'd. S.G 28A on Spur So. Side Iron Fork 2700' East of Forks & 600' out of Bot.



② 107-07-20	② 158-33-40	② 67-24-40	② 53-18-50	② 333-36-00
④ 214-14-50	④ 317-07-10	④ 134-49-20	④ 106-37-10	④ 307-11-35
⑥ 321-22-00	⑥ 115-40-50	⑥ 202-14-00	⑥ 159-56-00	⑥ 280-47-40
53°33'40"	79°16'50"	33°42'20"	26°39'20"	166°47'55"

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T @ S.G.# 28A F.B. Pg. H.I = 4.47

Sta	Rod.	+ Vertical - Angle
H-2	10.00	+8-22-20 +8-22-30 +8°22'25"
I-12	10.00	+4-50-20 +4-50-30 +4°50'25"
S.G.#33	10.00	+4-08-40 +4-08-40 +4°08'40"
S.G.#28	10.00	-1-23-40 -1-23-50 -1°23'45"
S.G.#29	10.00	+0-07-50 +0-08-00 +0°07'55"

F.B. 1382 Pg. 156

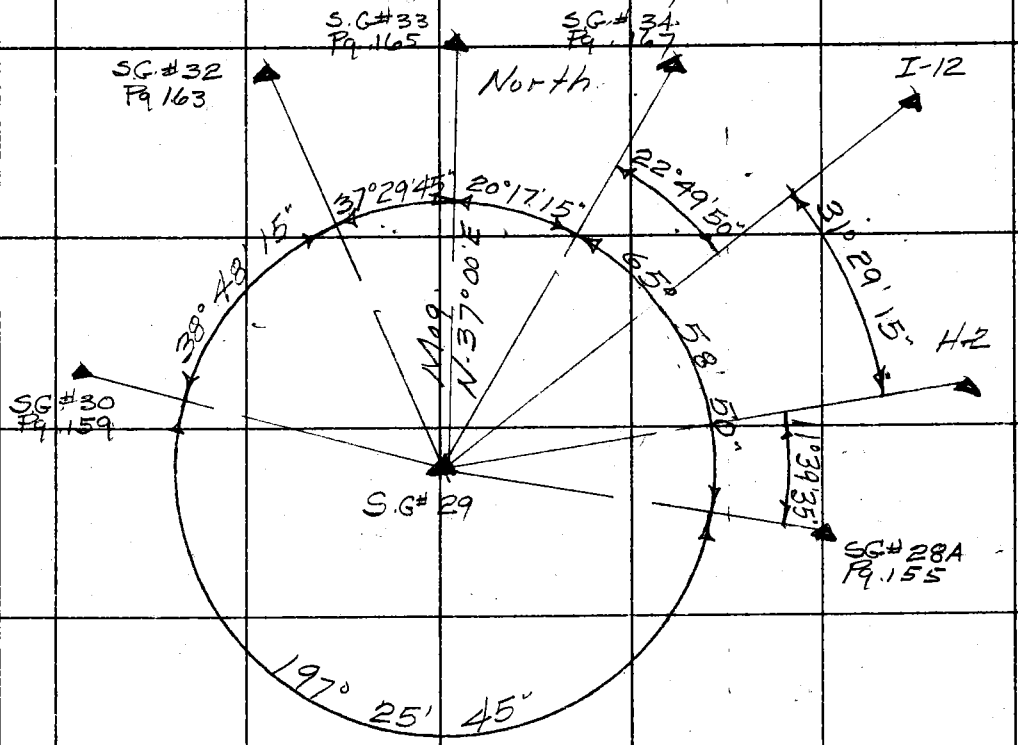
F. B. 1202 Pg. 107

Map No.
Office Work
Checked
Date

W. O. Map No. Sht.
Surveyed by Dougherty
Notes Dougherty Date 7-19-55
Indexed C. Johnson

S.G. # 29

Set 1" I.P. & Brass Cap Marked S.G. 29 up 1" on Spur 60' Side Iron Fork 1700' East of Fork & 500' out of Bot.



77-36-20	74-59-20	131-57-30	394-51-20
155-12-50	149-59-00	263-55-10	69-43-10
232-49-50	224-58-40	35-53-00	104-34-20
38°48'15"	37°29'45"	65°58'50"	197°25'45"

40-34-30	45-39-40	62-58-20	23-19-10
81-08-40	91-19-30	125-56-50	46-38-30
121-43-30	136-59-00	188-55-30	69-57-40
20°17'15"	22°49'50"	31°29'15"	11°39'35"

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Do not extend notes this side of this line.

T@	S.G.#29		F.B.	Pg.	H.I.=452			
Sta	Rod	+ Vertical - Angle						
S.G 30	10.00	+2-12-50 +2-13-10 +2° 13' 00"						
S.G#32	10.00	+3-01-50 +3-01-50 +3° 01' 50"						
S.G#33	10.00	+5-17-00 +5-17-20 +5° 17' 10"						
S.G#34	10.00	+3-17-30 +3-17-50 +3° 17' 40"						
SG #28A	10.00	+0-26-10 +0-26-30 +0°26' 20"						
T@	S.G #29				H.I=4.35			
H-2	10.00	+7-17-20 +7-17-40 +7°17'30"						
I-12	10.00	+4-31-10 +4-31-30 +4° 31' 20"						

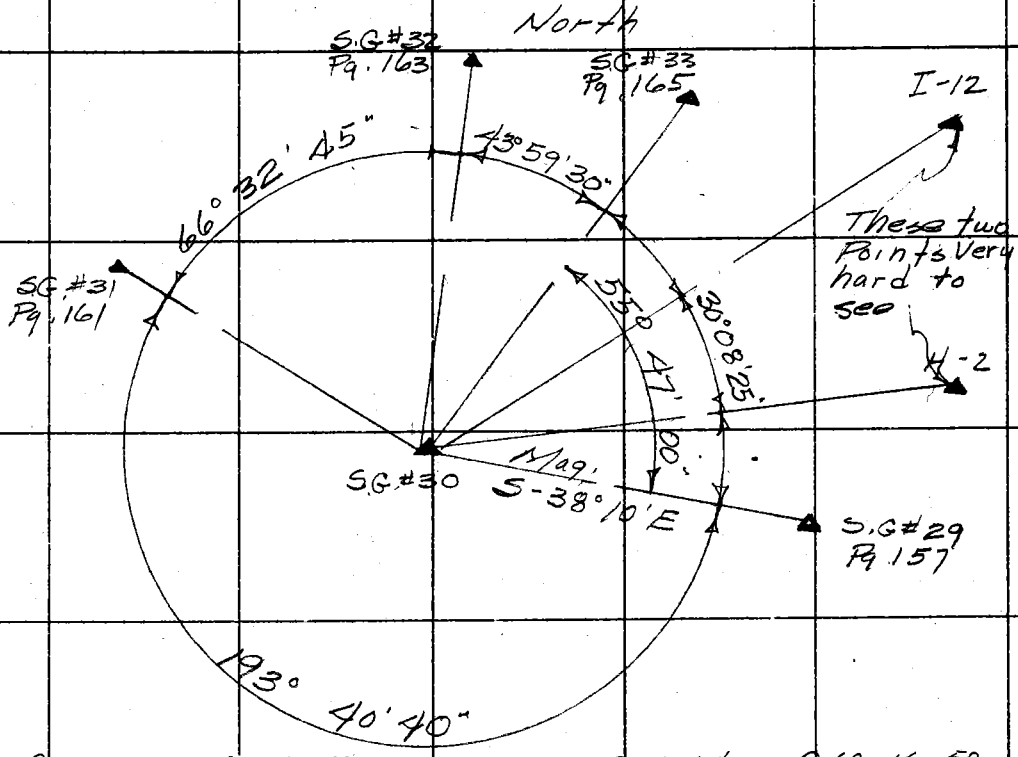
F.B. 1882 Pg. 158

F.B. 100p Pg. 159

Notes Ck'd by [illegible]	Survey of [illegible]
Map No.	W. O. [illegible] Tape No. [illegible]
Office Work	Surveyed by Dougherty
Checked	Notes Dougherty Date 7-20-55
Date	Indexed A. C. Johnson

S.G. #30

Set 1" I.P. & Galv. Cap Marked. S.G. #30 on Nose So. of Forks in Iron Fork 450' out of Bot.



② 133-05-30	② 87-59-00	② 111-34-00	② 60-16-50
④ 266-11-00	④ 175-58-00	④ 223-07-20	④ 120-33-40
⑥ 39-16-30	⑥ 263-57-00	⑥ 334-42-00	⑥ 180-50-10
66° 32' 45"	43° 59' 30"	55° 47' 00"	30° 08' 25"

② 387-21-30
④ 54-42-50
⑥ 82-04-00
193° 40' 40"

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T @ S.G. 30 F.B. Fq. HI = 4.65

Sta	Rod	+ Vert. - Ang.
S.G#31	10.00	+1-14-40 +1-14-50 +1° 14' 45"
SG#32	10.00	+2-42-40 +2-43-00 +2° 42' 50"
SG#33	10.00	+3-01-00 +3-01-20 +3° 01' 10"
SG#29	10.00	-1-41-30 -1-41-40 -1° 41' 35"

F.B. 1882 Pg. 160

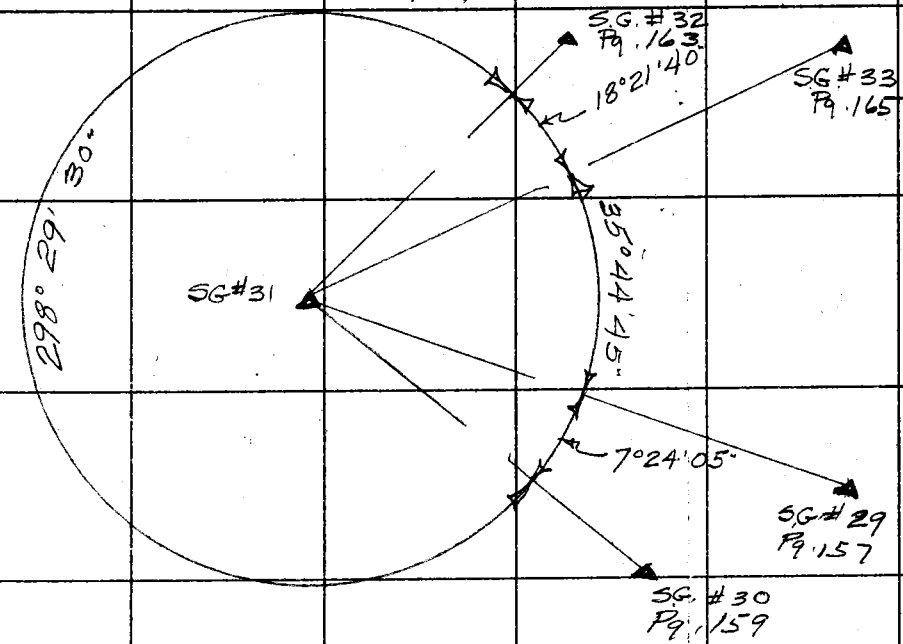
F. B. 140 Pg. 141

Notes Ck'd by [illegible]
Map No.
Office Work
Checked
Date

Survey of [illegible]
W. O. [illegible] Map No. [illegible]
Surveyed by Dougherty
Notes Dougherty Date 7-20-55
C. Johnson
Indexed

S.G. # 31

Set 1" I.P. & Galv. Cap Marked S.G. # 31 on Nose Between No. & So. Forks of Iron Forks 500' out of Bot.



② 36-43-10	② 71°29'20"	② 14-48-10	② 596-59-00
④ 73-26-40	④ 142-58-50	④ 29-36-00	④ 113-58-00
⑥ 110-10-00	⑥ 214-28-30	⑥ 44-24-30	⑥ 350-57-10
18°21'40"	35°44'45"	7°24'05"	298°29'30"

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T@ S.G. #31 F.B. Pg H.I = 4.52

Sta	Rod	+ vert. − Ang.
S.G.#32	10.00	+1-48-00 +1-48-10 +1°48'05"
S.G.#33	10.00	+1-45-00 +1-45-10 +1°45'05"
S.G.#29	9.00	−1-23-00 −1-23-20 −1°23'10"
S.G.#30	10.00	−0-37-00 −0-37-10 −0°37'05"

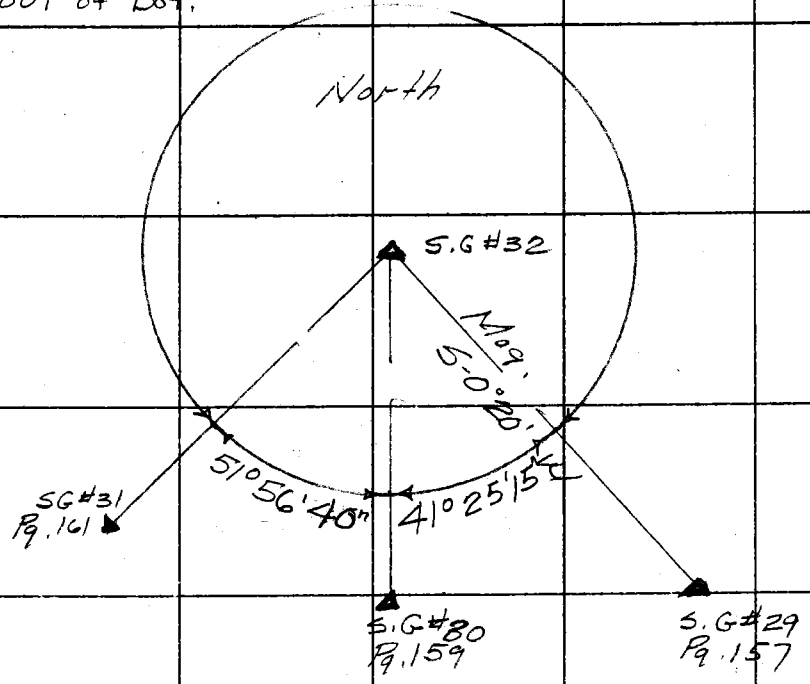
F.B. 1002 Pg. 162

F. B. 1[illegible] PG. 11.2

Notes Ck'd by [illegible]	Survey of [illegible]
Map No.	W. O. Tape No. Sta.
Office Work	Surveyed by Dougherty
Checked	Notes Dougherty Date 7-21-55
Date	Indexed C Johnson

S.G#32.

Set 1" I.P & Galv. Cap Marked. S.G#32 up 1" on Rocky spur. No. side Iron Fork & 500' East of Fork 550' out of Bot.



② 82-50-40 ②	103-53-10 ②
④ 165-41-00 ④	207-46-50 ④
⑥ 249-31-40 ⑥	311-40-00 ⑥
41°25'15"	51°56'40"

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T @ S.G.# 32 F.B. Pg. H.I. 4.77

Bta	Rod	± vert. Ang.
S.G#29	10.00	− 2-41-40 − 2-41-40 − 2° 41' 40"
SG#30	10.00	− 2-10-00 − 2-10-10 − 2° 10' 05"
S.G.31	10.00	− 1-17-00 − 1-16-40 − 1° 16' 50"

F.B. 1882 PG. 164

F.B. 1000 Pg. 11

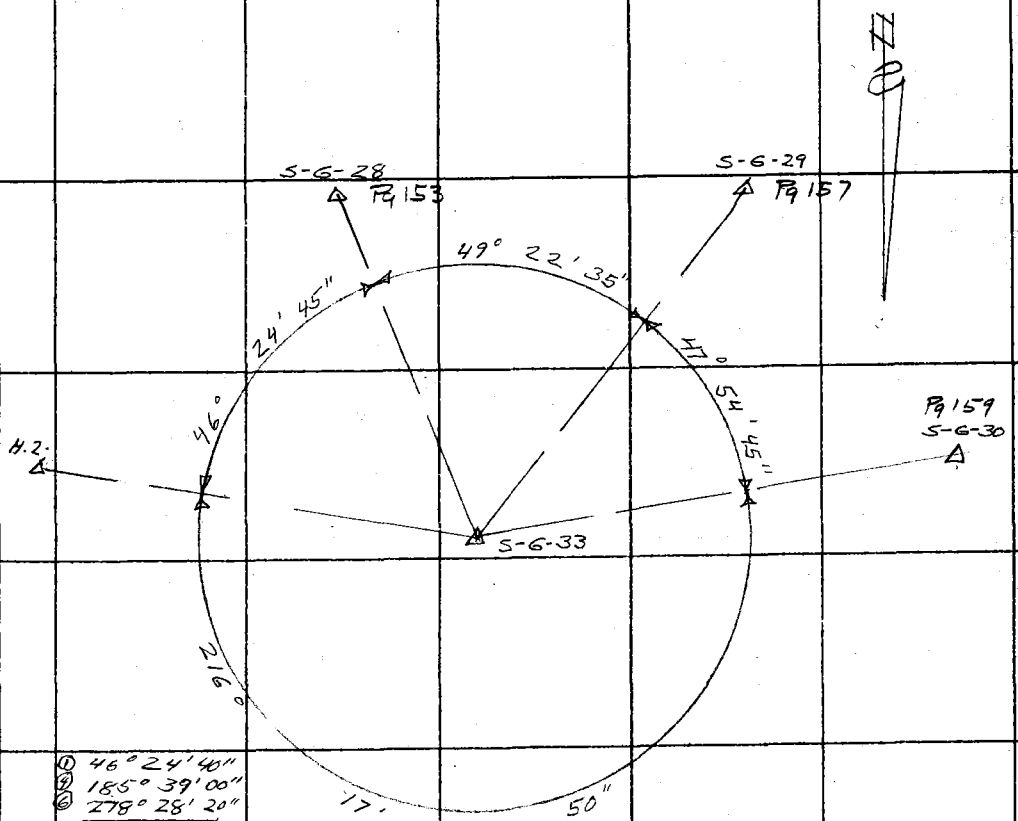
Notes Ck'd by Miller
Map No.
Office Work
Checked
Date

Survey of [illegible]
W. O. Tape No. of d.
Surveyed by Dougherty
Notes Bowles Date 7-27-55
Indexed A C Johnson

(S-G-33)

[illegible]

Between two Large Boulders on rocky nose 2000'± N.E. of iron fork & S. fork. 650' out of Bottom of iron forks.



① 46° 24' 40"
④ 185° 39' 00"
⑥ 278° 28' 20"
46° 24' 45"

① 49° 22' 30"
④ 197° 30' 20"
⑥ 296 15' 30"
49° 22' 35"

① 47° 54' 50"
④ 191° 39' 00"
⑥ 287° 28' 30"
47° 54' 45"

① 216° 17' 50"
④ 145° 11' 20"
⑥ 217° 47' 00"
216° 17' 50"

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T @ S-G-33 | F.B. | Pg | H.I. 5.21

Sta.	Rod.	Vertical angle.
H-2	10.00	+6° 37' 20" +6° 37' 30" 6° 37' 25"
S-G-28	10.00	− 3° 33' 00" − 3° 32' 50" 3° 32' 55"
S-G-29	10.00	− 4° 51' 00 − 4° 50' 50' 4° 50' 55'
S-G-30	10.00	− 2° 37' 40" − 2° 37' 40"

F.B. 1002 PG. 166

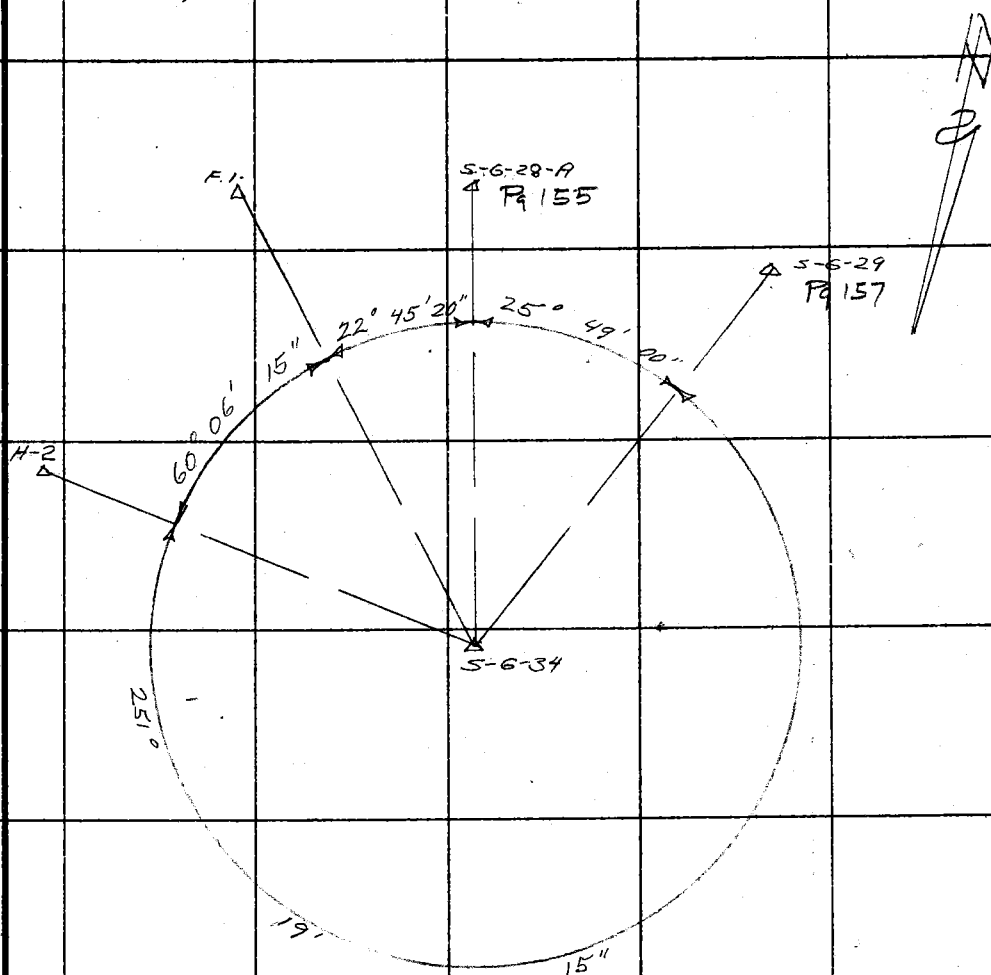
F. B. 1005 PG. 117

Notes Ck'd by [illegible]
Map No.
Office Work
Checked
Date

Survey of [illegible]
W. O. Tape No. Sta.
Surveyed by Dougherty
Notes Bowles Date 7-27-55
Indexed C. Johnson

(S-G-34)

[illegible]
on spur 1500' W. of int. Ross Gulch
& Iron forks. 850' out of Bottom.



① 60° 06' 10"+	① 25° 49' 00"
④ 24° 25' 00"	④ 103° 16' 00"
⑥ 00° 37' 40"	⑥ 154° 45' 00"
60° 06' 15	25° 49' 00"
① 22° 45' 20"	① 251° 19' 20"
④ 91° 01' 20"	④ 285° 17' 00"
⑥ 136° 32' 00"	⑥ 67° 55' 40"
22° 45' 20"	251° 19' 15"

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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Do not extend notes this side of this line.

T @		S-G-34	F.B.	pg	H.I. 4.76			
Sta.	Rod.	Vertical angle.						
H-2	10.00	+7°21'30" +7°21'40" 7°21'35"						
F.I.	10.00	+5°45'00" +5°45'00"						
S-G-28-A	10.00	+3°16'00" +3°16'00"						
S-G-29	10.00	-3°03'00" -3°02'50" 3°02'55"						

F.B. 1682 Pg. 168

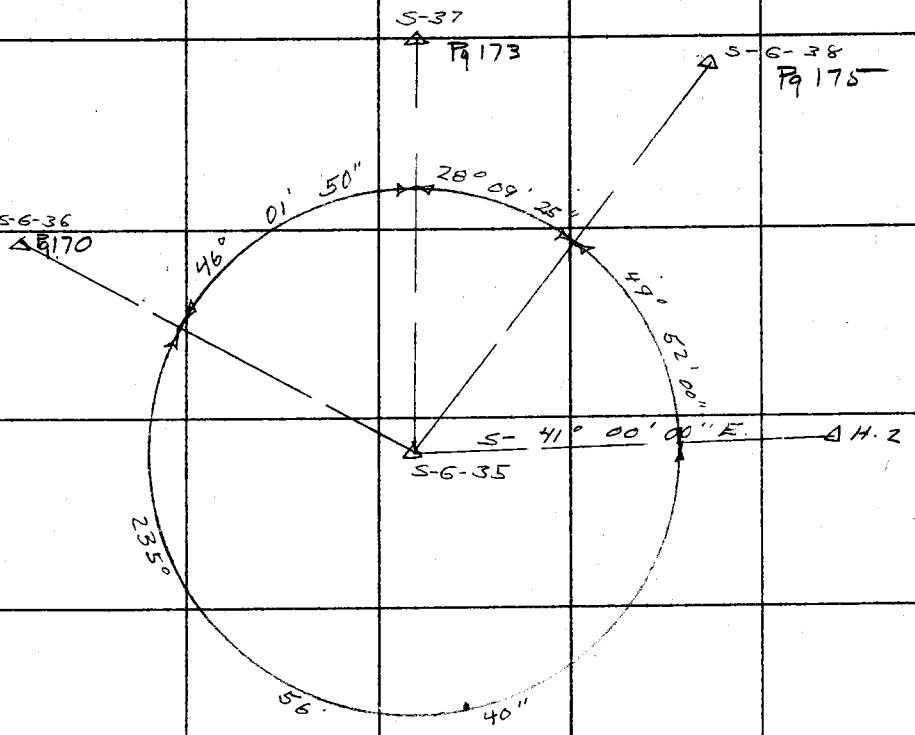
F. B. 1000 Pg. 119

Notes Ch'd by Miller
Map No.
Office Work
Checked
Date

Survey of [illegible]
W. O. Tape No. Sta.
Surveyed by Dougherty
Notes Bowles Date 7-27-55
Indexed K. C. Johnson

(S-G-35)

[illegible] (up 2") on Side Hill 450'± S. of S-G-36 W. Side Ross & 2000'± N-W. of Int. Ross Gulch & Iron Forks. 400' out of Bottom Ross Gulch.



① 46° 01' 50"	① 49° 52' 00"
④ 184° 07' 30"	④ 199° 28' 10"
⑥ 276° 11' 10"	⑥ 299 12' 00"
46° 01' 50"	49° 52' 00"
① 28° 09' 20"	① 235° 56' 40"
④ 112° 37' 50"	④ 223° 46' 40"
⑥ 168° 56' 30"	⑥ 335° 39' 40"
28° 09' 25"	235° 56' 40"

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726 LOS ANGELES COUNTY
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76F3098 247 4-53

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T @ S-G-35 | F.B. | Pg | H.I. 4.74

Sta.	Rod.	Vertical angle.
S-G-36	10.00	+12° 22' 10" +12° 22' 10" 12° 22' 10"
S-G-37	10.00	+ 4° 05' 20" + 4° 05' 30" 4° 05' 25"
S-G-38	10.00	+3° 57' 10" +3° 57' 20" 3° 57' 15"

F.B. 1882 PG. 170

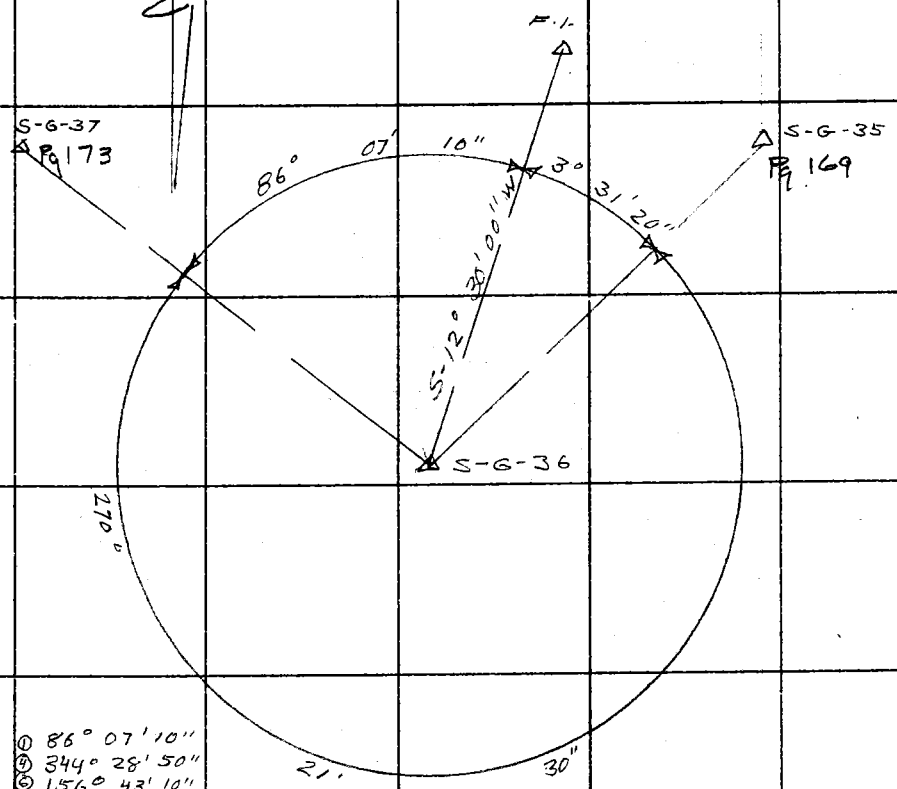
F. B. 100 Pg. 171

Notes Ck'd by [illegible]
Map No.
Office Work
Checked
Date

Survey of [illegible]
W. O. Tape No. [illegible]
Surveyed by Dougherty
Notes Bowles Date 7-27-55
Indexed A. C. Johnson

S-G-36

[illegible]
on Long Spur 300'± W. of Ross Gulch
& 2500'± N. of Int. of Ross Gulch &
Iron forks & 400' out of Bottom
of Ross Gulch



① 86° 07' 10"
④ 344° 28' 50"
⑥ 156° 43' 10"
86° 07' 10

① 3° 31' 20"
④ 14° 05' 20"
⑥ 21° 07' 50"
3° 31' 20"

① 270' 21' 30"
④ 1° 25' 50"
⑥ 182° 09' 00"
270' 21' 30"

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76F3098 247 4-53

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T @ | S-G-36 | F.B. | Pg | H.I. 4.38

Sta.	Rod	Vertical angle.
S-G-37	10.00	− 6° 29' 00" − 6° 28' 50" 6° 28' 55"
F.I.	10.00	+ 0° 52' 20" + 0° 52' 30" 0° 52' 25"
S-G-35	10.00	− 12° 06' 00" − 12° 05' 50" 12° 05' 55"

F.B. 1882 Pg. 172

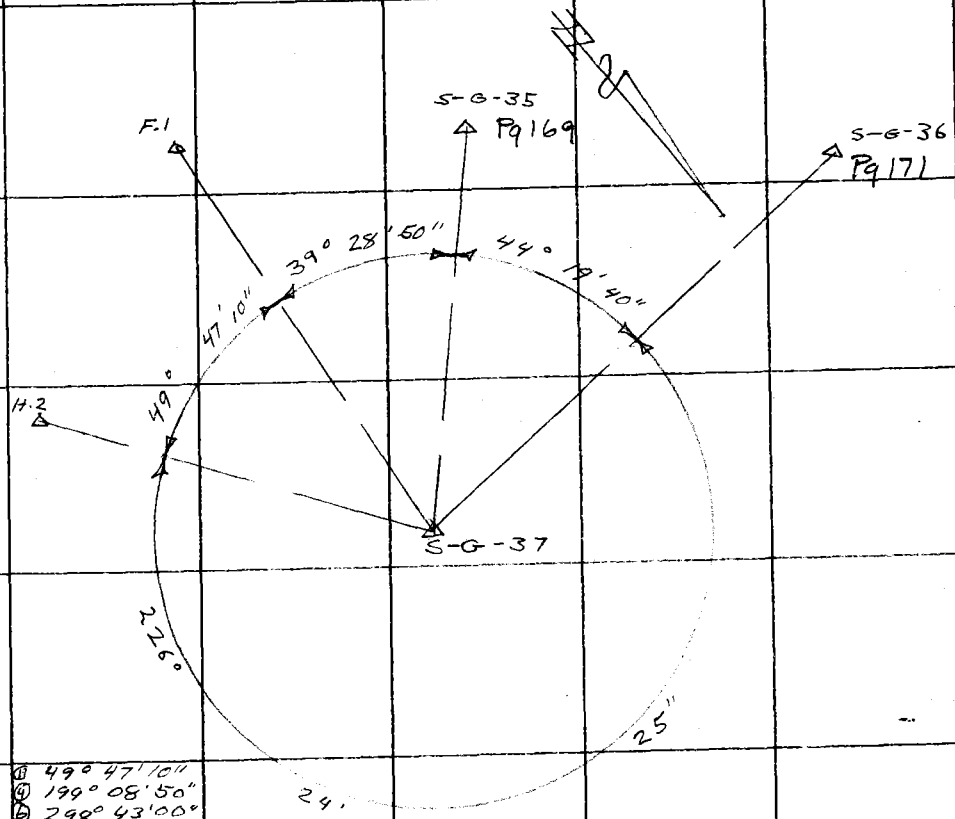
F. B. 1000 PG. 172

Notes Ch'd by [illegible]
Map No.
Office Work
Checked
Date

Survey of
W. O. Tape No. Sta.
Surveyed by Dougherty
Notes Bowles Date 7-27-55
Indexed A. C. Johnson

(S-G-37)

[illegible]
on side Hill 600'± S. of Ross Gulch
& 300' out of Bottom of Ros Gulch.



① 49° 47' 10"
④ 199° 08' 50"
⑥ 298° 43' 00"
49° 47' 10"

① 39° 28' 50"
④ 157° 55' 20"
⑥ 236° 53' 10"
39° 28' 50"

① 44° 19' 40"
④ 177° 18' 50"
⑥ 265° 58' 00"
44° 19' 40"

① 226° 24' 20"
④ 185° 37' 40"
⑥ 278° 26' 40"
226° 24' 25"

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T @ S-G-37 F.B. Pg H.I. 4.49

Sta	Rod	vertical angle.
H-2	10.00	+5° 32' 00" +5° 32' 10" 5° 32' 05"
F-1	10-00	+2° 02' 20" +2° 02' 30" 2° 02' 25"
S-G-35	10-00	-3° 42' 10" -3° 42' 00" 3° 42' 05"
S-G-36	10-00	+6° 59' 30" +6° 59' 20" 6° 59' 25"

F.B. 1082 Pg 174

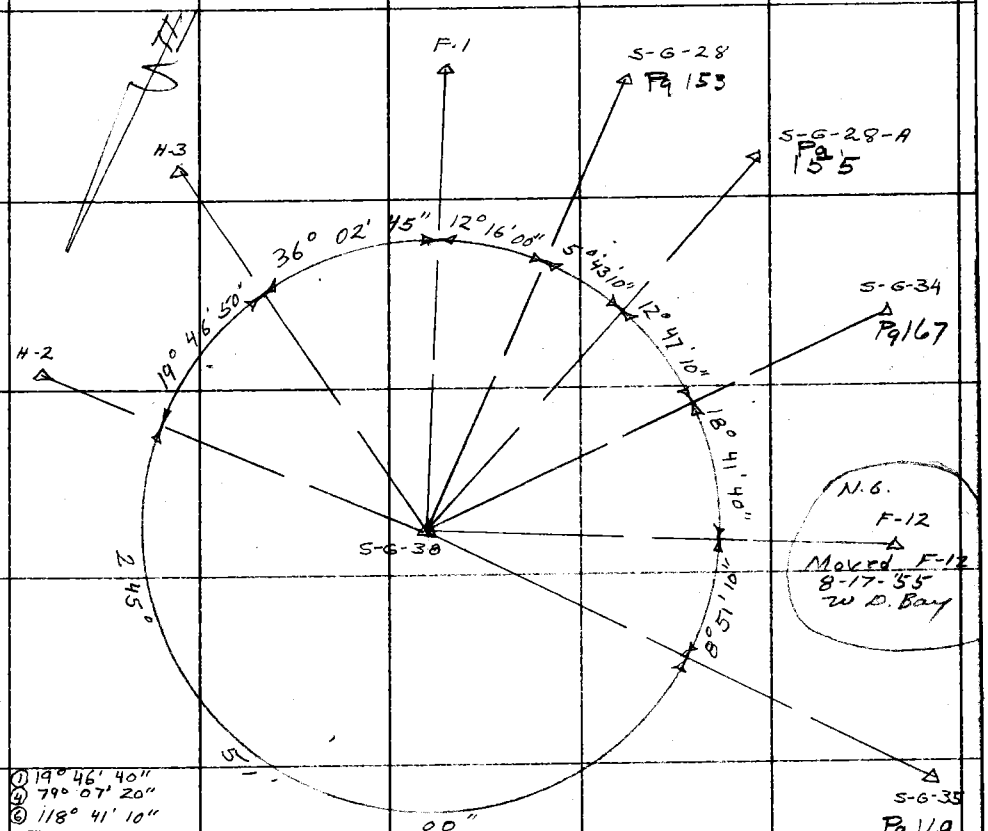
F. B. 141 Pg. 172

Map No.
Office Work
Checked
Date

W. O. Type No. Sht. of
Surveyed by Daugherty
Notes Bowles Date 7-27-55
C Johnson
Indexed

(S-G-38)

Set 1" I.P. & cap up 2" marked S-G-38 on side Hill N.W. of iron forks & 1000' W. of S-G-39 (1250 out of Bottom.



① 19° 46' 40"
④ 79° 07' 20"
⑥ 118° 41' 10"
19° 46' 50"

① 36° 02' 50"
④ 144° 11' 10"
⑥ 216° 16' 40"
36° 02' 45"

① 12° 16" 00"
④ 49° 04' 00"
⑥ 73° 36' 00"
12° 16' 00"

① 5° 43' 10"
④ 22° 53' 00"
⑥ 34° 19' 20"
5° 43' 10"

① 12° 47' 10"
④ 51° 08' 50"
⑥ 76° 43' 20"
12° 47' 10"

① 18° 41' 40"
④ 74° 46' 40"
⑥ 112° 10' 00"
18° 41' 40"

① 8° 51' 10"
④ 35° 24' 50"
⑥ 53° 07' 10"
8° 51' 10"

① 245° 51' 00"
④ 263° 24' 00"
⑥ 35° 05' 20"
245° 51' 00"

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Do not extend notes this side of this line.

	T	@ S-G-38	F.B.	P.G	H.I. 4-56		
Sta.	Rod	± Vertical angle.					
H.2	10.00	+ 6° 06' 40" + 6° 06' 50" 6° 06' 45"					
H.3	10.00	- 00° 48' 50" - 00° 48' 50"					
F.1.	10.00	+ 01° 49' 10" + 01° 49' 20" 01° 49' 15"					
S-G-28	10.00	- 3° 58' 00" - 3° 57' 50" 3° 57' 55"					
S-G-28-A	10.00	- 03° 45' 00" - 03° 44' 50" 3° 44' 55"					
S-G-34	10.00	- 3° 47' 00" - 3° 47' 00" 3° 47' 00"					
F-12	10.00	+ 8° 20' 30" + 8° 20' 40" 8° 20' 35"					
S-G-35	10.00	- 3° 39' 00" - 3° 39' 00" 3° 39' 00"					

F.B. 1802 PG. 176

F. B. 104 Pg. 1-7

Map No.
Office Work
Checked
Date

W. O. Tape No. Sht.
Surveyed by Dougherty
Notes Bowles Date 7-27-55
Indexed C Johnson

(S-G-39)
set 1" I.P. & cap marked S-G 39 (Up 1")
on nose N. & W. of Iron fork - 1400 ft.
out of Bottom.

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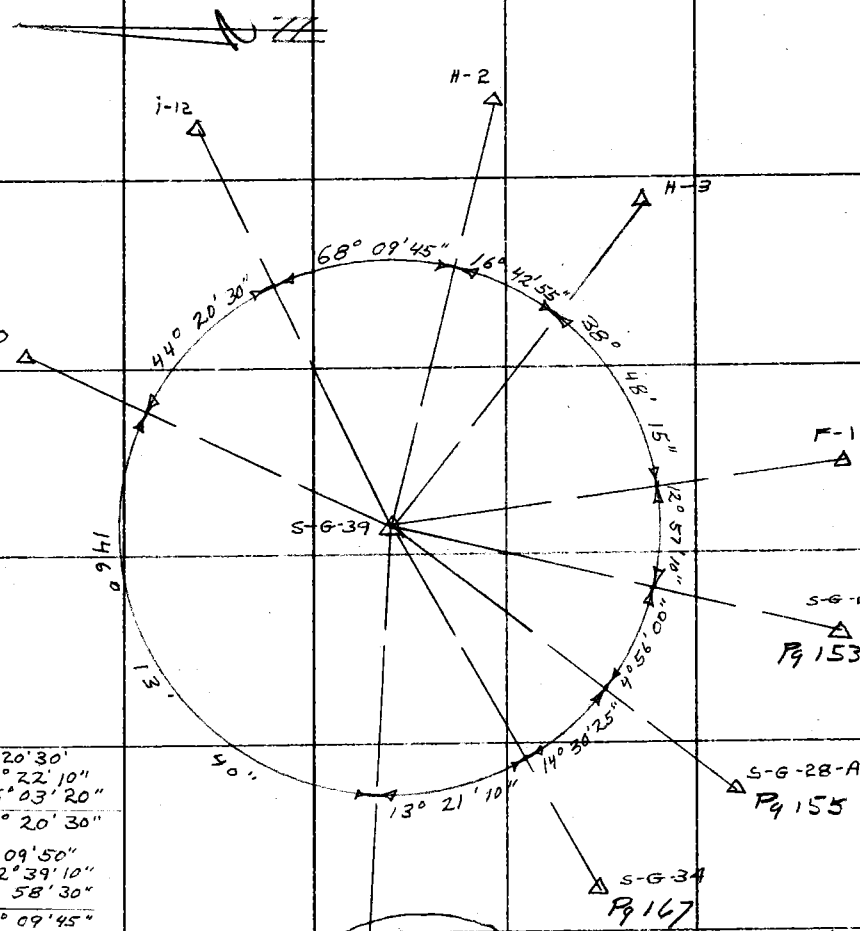

(1) 44° 20' 30"
(4) 177° 22' 10"
(6) 266° 03' 20"
44° 20' 30"

(2) 68° 09' 50"
(4) 272° 39' 10"
(6) 48° 58' 30"
68° 09' 45"

(1) 16° 43' 00"
(4) 66° 51' 50"
(6) 100° 17' 30"
16° 42' 55"

(2) 38° 48' 20"
(4) 155° 13' 00"
(6) 232° 49' 40"
38° 48' 15"

(2) 12° 57' 10"
(4) 51° 49' 00"
(6) 77° 42' 50"
12° 57' 10"

(2) 4° 56' 00"
(4) 19° 44' 00"
(6) 29° 36' 00"
4° 56' 00"

(2) 14° 30' 20"
(4) 58° 01' 40"
(6) 87° 02' 50"
140° 30' 25"

(1) 13° 21' 10"
(4) 53° 24' 40"
(6) 80° 07' 10"
13° 21' 10"

(2) 146° 13' 40"
(4) 224° 54' 20"
(6) 157° 21' 30"
146° 13' 40"

76F3095 S&E #247. 8-54

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T @ S-G-39 F.B. P'g. H.I. = 4.65

Sta.	Rod	± vertical angle
J-10	10.00	+ 07° 02' 50" + 07° 03' 00" 07° 03' 55"
I-12	10.00	+ 04° 51' 10" + 04° 51' 20 04° 51' 15"
H.2	1.0	+ 05° 38' 40" + 05° 38' 40" 05° 38' 40"
H.3	10.00	- 01° 26' 10" - 01° 26' 10 01° 26' 10"
F-1	10.00	+ 00° 49' 20" + 00° 49' 30" 00° 49' 35"
S-G-28	10.00	- 4° 32' 06" - 4° 31' 50" 4° 31' 55"
S-G-28A	10.00	- 4° 17' 20" - 4° 17' 20" 4° 17' 20"
S-G-34	10.00	- 4° 24' 00" - 4° 23' 50" 4° 23' 55"
F.12	10.0	+ 4° 56' 50" + 4° 57' 00" 4° 56' 55"

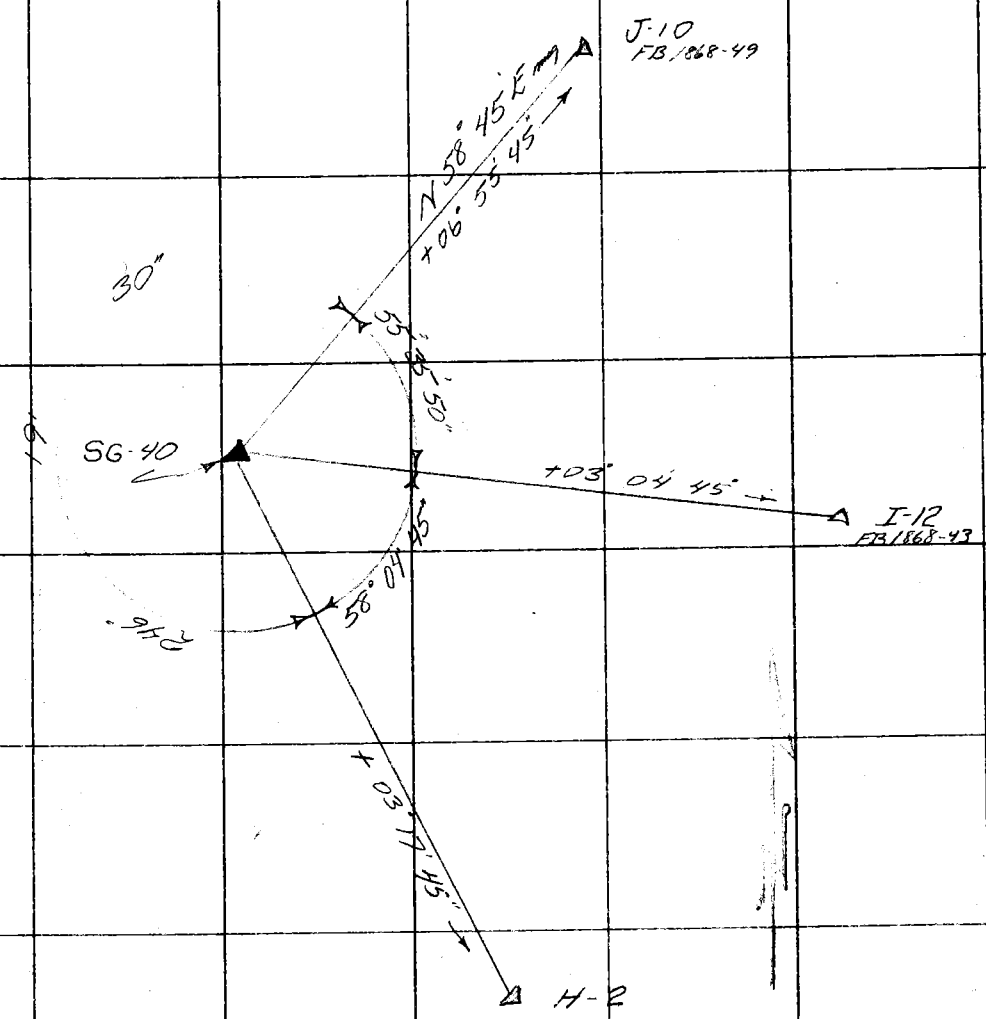
F.B. 1082 PG. 178

F. B. [illegible] PG. 179

Map No.	W. O. [illegible] Tape No. ___ Sta. ___
Office Work	Surveyed by W. S. Cowhead
Checked	Notes WSC Date 7/21/55
Date	Indexed A. C. Johnson

SG-40

Set 3/4" Galv. Pipe & Cap opt. Top of Spur & Tunnel site.
2000'± Wly & 1000'± Nly of Inter FISH FORK & E. FORK
SAN GABRIEL RIVER. W. side SAN GABRIEL RIVER



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76F3095 S&E #247. 6-54

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Transit at SG-40 | F.B. 1882 | Pg # 179 | +I, 4.27

Sight on	Rod	+Vertical -Angle	Horizontal -Distance	+Vertical -Distance	+Curvature correction	+Difference -Elevation	Adjusted Diff. Elev.
H-2	10.00	+03 17 30 +23 18 00 +03 17 45					
I-12	10.00	+23 04 30 +03 05 00 +03 04 45					
J-10	10.00	+26 55 30 +06 56 00 +06 55 45					
J-10 To I-12	2) 4) 6)	111 12 00 202 23 30 333 35 00 55 35 50	I-12 To H-2	2) 4) 6)	116 09 30 230 19 00 348 28 30 58 04 45	H-2 To J-10	2) 132 39 00 4) 265 18 00 6) 37 57 00 246 19 30

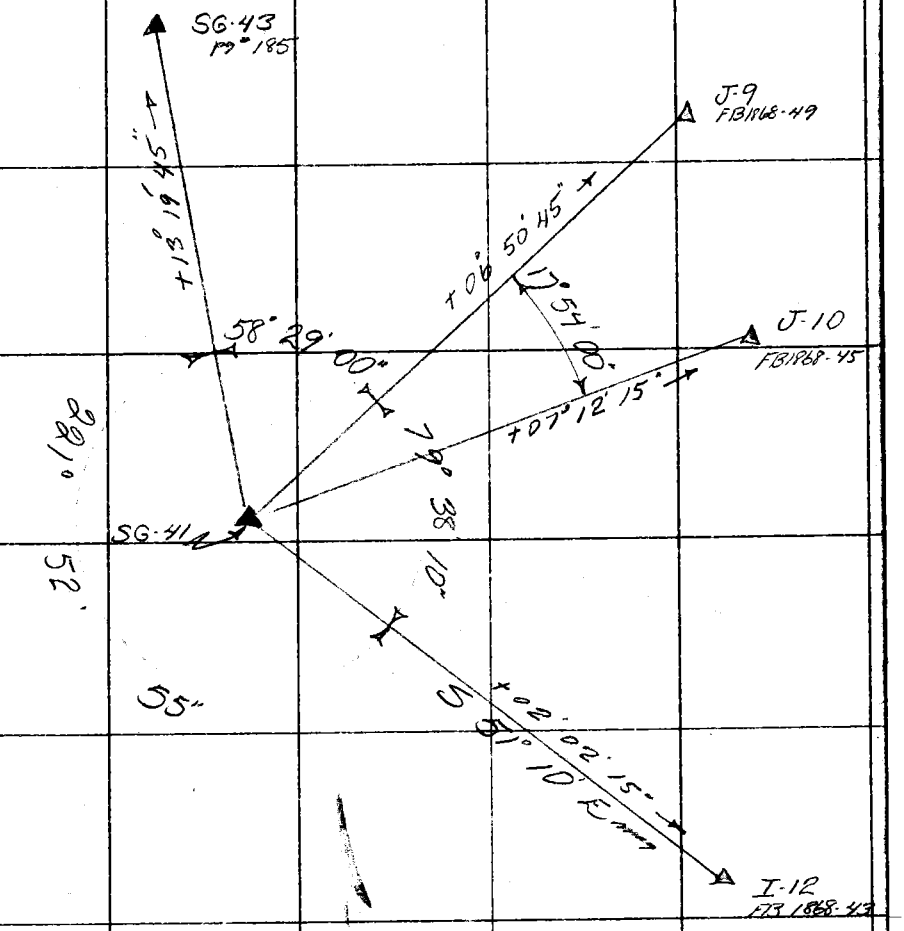
F.B. 1882 Pg. 180

F. B. _____ PG. 181

Map No.	W. O. [illegible] Tape No. ____ Sta. ____
Office Work	Surveyed by W. S. Cowhead
Checked	Notes W.S.C. Date 7/20/55
Date	Indexed K. C. Johnson

SG-41

Set 3/4" Galv. Pipe & Cap "p1" Stamped SG-41 Top of Spur. 1700' ± W. of & 2600 N. of Inter. of FISH FORK & E. FORK of SAN GABRIEL RIVER at Approx. 4700' Elev. on W. side of CYN.



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Transit at		SG-41	F.B. 1882	B.M. 181	H.I. 4.10			
Sight on	Rod	+ Vertical - Angle	Horizontal Distance	+ Vertical - Distance	+ Curvature correction	+ Difference - Elevation	Adjusted Diff Elev.	
SG 43	10.00	+ 13 19 30 + 13 20 00 + 13 19 45						
J-9	5.00	+ 06 50 30 + 06 51 00 + 06 50 45						
J-10	10.00	+ 07 12 00 + 07 12 30 + 07 12 15						
I-12	10.00	+ 02 02 00 + 02 02 30 + 02 02 15						
SG-43 to J-9		(2) 116 58 00 (4) 233 55 45 (6) 350 53 30 58 29 00	J-9 to I-12	(2) 159 16 15 (4) 318 32 30 (6) 477 49 00 79 38 10	J-9 to J-10	(2) 35 48 00 (4) 71 36 00 (6) 107 24 15 17 54 00	I-12 to SG-43	(2) 83 45 45 (4) 167 31 30 (6) 251 17 30 221 52 53

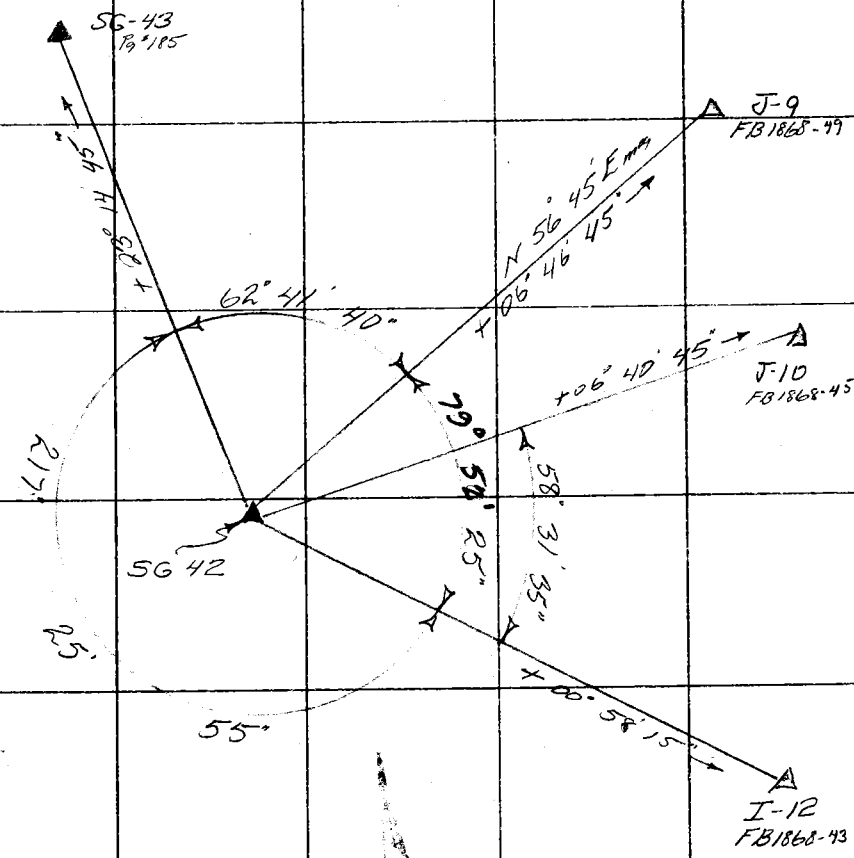
F.B. 1882 Pg. 184

Notes Ch'd by [illegible]	Survey of [illegible]
Map No.	W. O. [illegible] Tape No. ___ Sta. ___
Office Work	Surveyed by W. S. Cowherd
Checked	Notes W.S.C. Date 7/22/55
Date	Indexed A. C. Johnson

F. B. [illegible] PG. [illegible]

SG-42

Set 3/4" Galv. Pipe & Cap up 1" Stamped SG-42 on N. side of spur. 300'± S. of Gulley 2200'± Wly of Inter. Gulley & E. FORK. SAN GABRIEL RIVER. Gulley 3000'± N. of FISH FORK. W. side San Gabriel River



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Transit at SG-42 F.B. 1882 Pg # 183 H.I. 4.12

Sight on	Rod	+Vertical -Angle	Horizontal Distance	+Vertical -Distance	+Curvature Correction	+Difference -Elevation	Adjusted Diff. Elev.
SG-43	10.00	+23 14 30 +23 15 00 +23 14 45					
J-9	10.00	+06 46 30 +06 47 00 +06 46 45					
J-10	10.00	+06 40 30 +06 41 00 +06 40 45					
I-12	10.00	+00 58 00 +00 58 30 +00 58 15					

SG 43 To J-9	(2)	125	23	15	J-9 To I-12	(2)	159	44	45	J-10 To I-12	(2)	117	03	00	I-12 To SG 43	(2)	74	51	45
	(4)	250	46	30		(4)	319	29	30		(4)	234	06	15		(4)	149	43	30
	(6)	16	10	00		(6)	119	14	30		(6)	351	09	30		(6)	224	35	10
		62	41	40			79	52	25			58	31	30			217	25	55

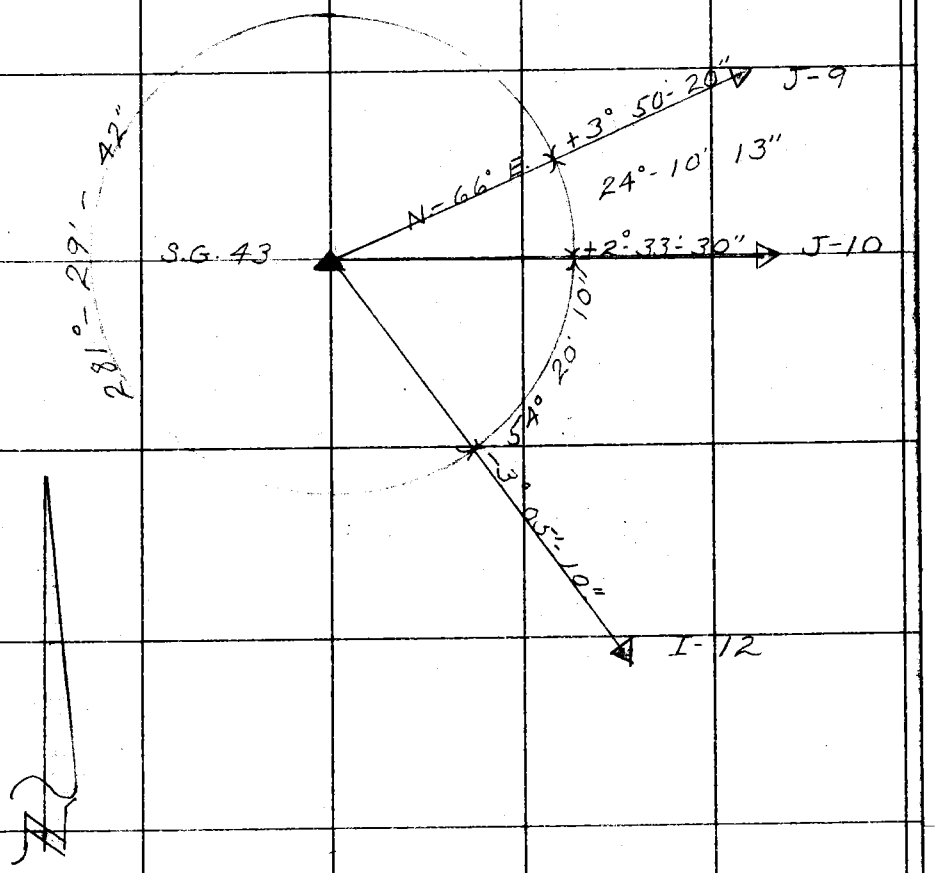
F.B. 1882 PG. 184

F. B. _____ PG. _____

Map No. _____	W. O. [illegible] Tape No. _____ Std. _____
Office Work _____	Surveyed by L. V. SMITH - COWHERD
Checked _____	Notes L. V. SMITH Date 7-20-55
Date _____	Indexed K. C. Johnson

SG 43

SET 1/4 I.P. WITH CAP OPT. CAP STAMPED SG 43
PIPE SET ON TOP OF HIGH RIDGE ON SOUTH SIDE OF
ALDER GULCH ON PROPOSED TUNNEL SITE.



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TRANSIT AT STATION S-G-43 F.B. 1882 PG. 185 H.I. 5.01

SIGHT ON	-ROD	+VERTICAL - ANGLE	HORIZONTAL DISTANCE	+VERTICAL CURVATURE -DISTANCE CORRECTION	+DIFFERENCE -ELEVATION	ADJUSTED DIFF. ELEV.
J-9	-10.00	+3-50-20				
		+3-50-20				
		+3-50-20				
J-10	-10.00	+2-33-20				
		+2-33-40				
		+2-33-30				
I-12	10.00	-3-05-20				
		-3-05-00				
		-3-05-10				

J-9 to J-10

1)	24°	-10	-10"
4)	96	40	40
6)	145	01	20
	24°	10'	13"

J-10 to I-12

1)	54°	20'	10"
4)	217	20	40
6)	326	01	00
	54°	20'	10"

I-12 to J-9

1)	281°	29'	30"
3)	248	58	40
	281°	29'	42"

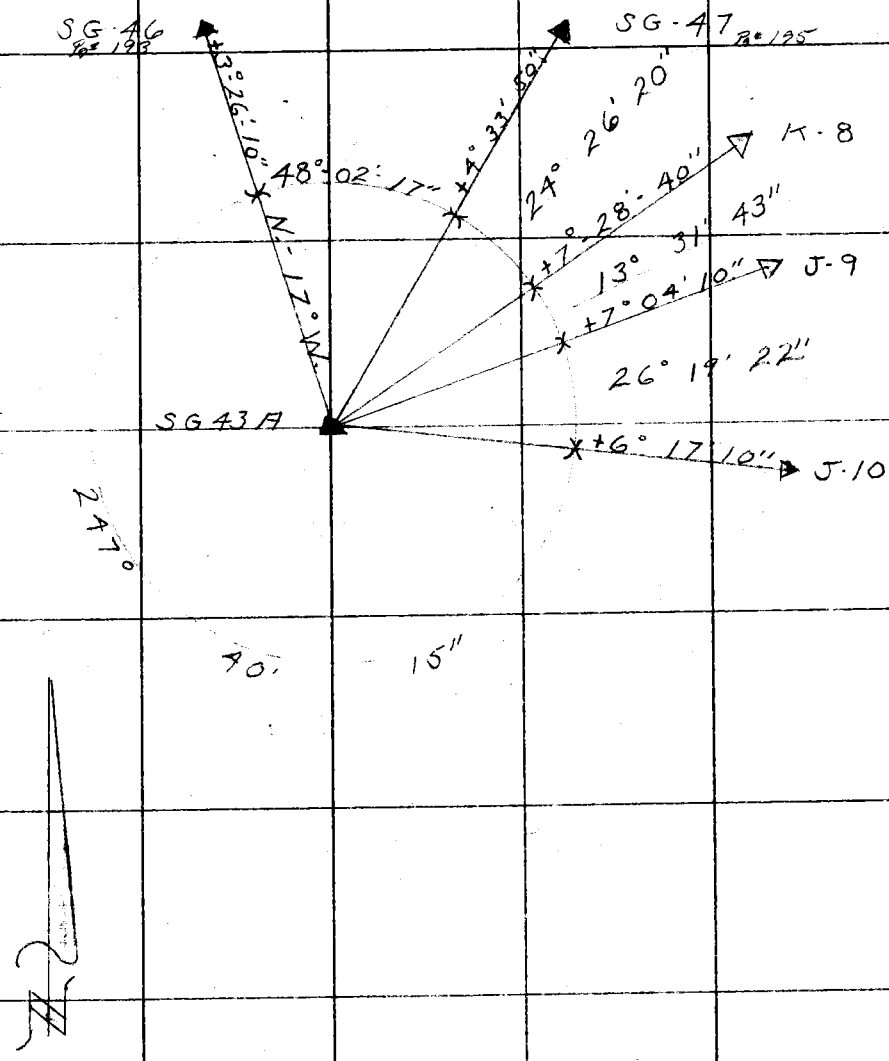
F.B. 1882 PG. 186

F. B. [illegible] Pg. [illegible]

Map No.	W. O. [illegible] Tape No. ____ Std. ____
Office Work	Surveyed by W. Cowherd - L. Smith
Checked	Notes L.V. Smith Date 7-20-55
Date	Indexed K. C. Johnson

SG 43A

SET 3/4" I.P. WITH CAP OF N. CAP STAMPED SG 43A PIPE SET ON N. SLOPE OF RIDGE ON SOUTH SIDE OF ALDER GULCH. 200± FLY. OF NORTH END OF PROPOSED TUNNEL SITE.



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TRANSIT AT STATION SG-15A F.B. 1882 PG. 187 H.I. 4.82

SIGHT ON	-ROD	+VERTICAL -ANGLE	HORIZONTAL DISTANCE	+VERTICAL-CURVATURE -DISTANCE CORRECTION	+DIFFERENCE -ELEVATION	ADJUSTED DIFF. ELEV.
SG46	-10.00'	+3°-26'-00"				
		+3-26-20				
		+3-26-10				
SG-47	-10.00'	+4-33-40				
		+4-34-00				
		+4-33-50				
K-8	-10.00'	+7-28-40				
		+7-28-40				
		+7-28-40				
J.9	-10.00	+7-04-00				
		+7-04-20				
		+7-04-10				
J-10	-10.00	+6-17-00				
		+6-17-20				
		+6-17-10				

SG-46 to SG-47

1)	48°	02'	20"
4)	192	09	00
6)	288	13	40
	48°	02'	17"

SG-47 to K-8

1)	24°	26'	10"
4)	97	45	00
6)	146	38	50
	24°	26'	20"

K-8 to J-9

1)	13°	31'	40"
4)	54	06	40
6)	81	10	20
	13°	31'	43"

J-9 to J-10

1)	26°	19'	20"
4)	105	17	30
6)	157	56	10
	26°	19'	22"

J-10 to SG-46

1)	247°	40'	20"
4)	270	41	00
6)	46	01	30
	247°	40'	15"

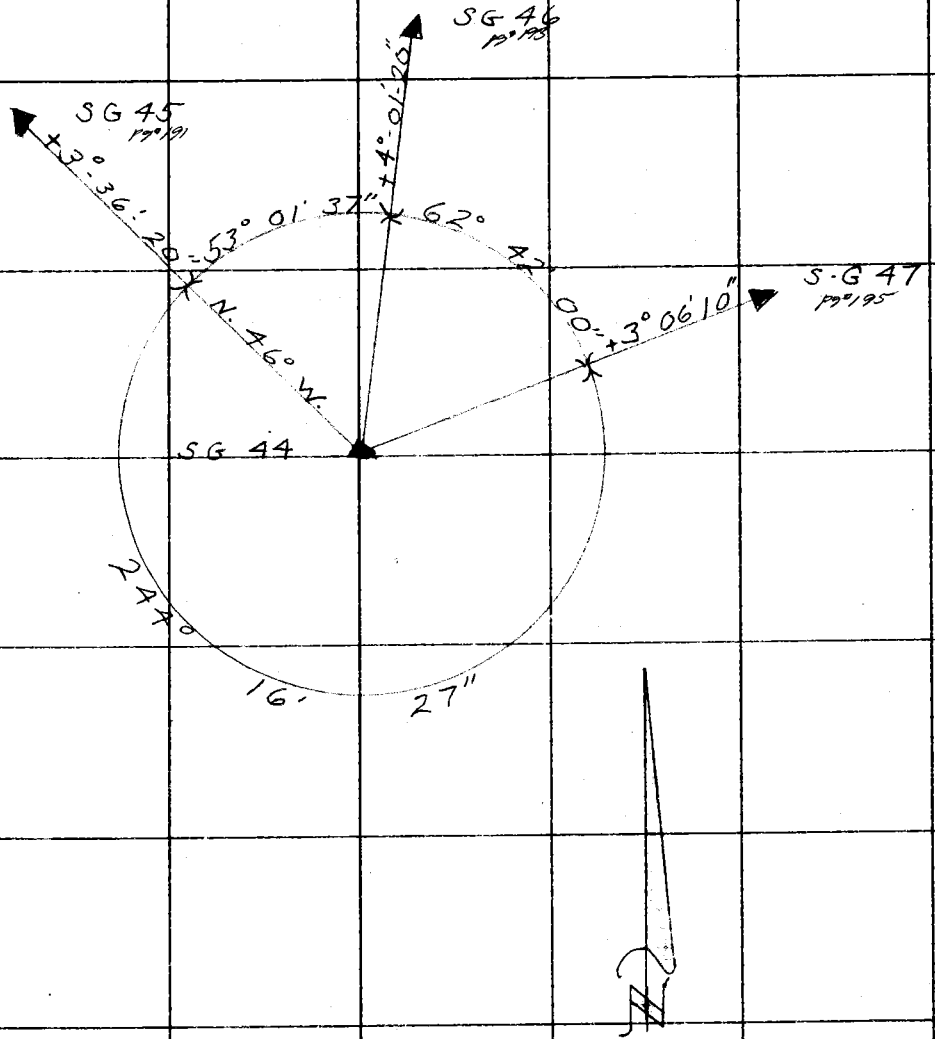
F.B. 1882 PG. 187

Notes Ck'd by [illegible]	Survey of [illegible]
Map No.	W. O. [illegible] Tape No. Sta.
Office Work	Surveyed by L.V. SMITH - W. COWHERD
Checked	Notes L.V. SMITH Date 7-19-55
Date	Indexed C. Johnson

F. B. [illegible] PG. [illegible]

SG44

SET 94 I.P. WITH CAP OF 1" BAR STAMPED SG 44 PIPE SET ON SLOPE ON SOUTH SIDE OF ALDER GULCH 4200' ± W. OF JUNCTION OF ALDER GULCH & EAST FORK SAN GABRIEL RIVER.



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TRANSIT AT STATION SG 44 F.B. 1882 PG 189 H.I. 4.91

SIGHT ON	-ROD	+VERTICAL -ANGLE	HORIZONTAL DISTANCE	+VERTICAL CURVATURE -DISTANCE CORRECTION	+DIFFERENCE -ELEVATION	ADJUSTED DIFF. ELEV.
SG 45	-5.00	+3° 36' 20"				
		+3 36 20				
		+3 · 36 · 20				
SG 46	-10.00	+4° 01' 20"				
		+4 01 20				
		+4 01 20				
SG 47	-10.00	+3 06 00				
		+3 06 20				
		+3° 06' 10"				

	SG-45 to SG-46	SG-46 to SG-47	SG-47 to SG-45
1)	53° 01' 40"	1) 62° 42' 00"	1) 244° 16' 20"
4)	212 06 20	4) 250 47 40	4) 257 06 00
6)	318 09 40	6) 16 12 00	6) 25 38 40
	53° 01' 37"	62° 42' 00"	244° 16' 27"

F.B. 1882 PG. 190

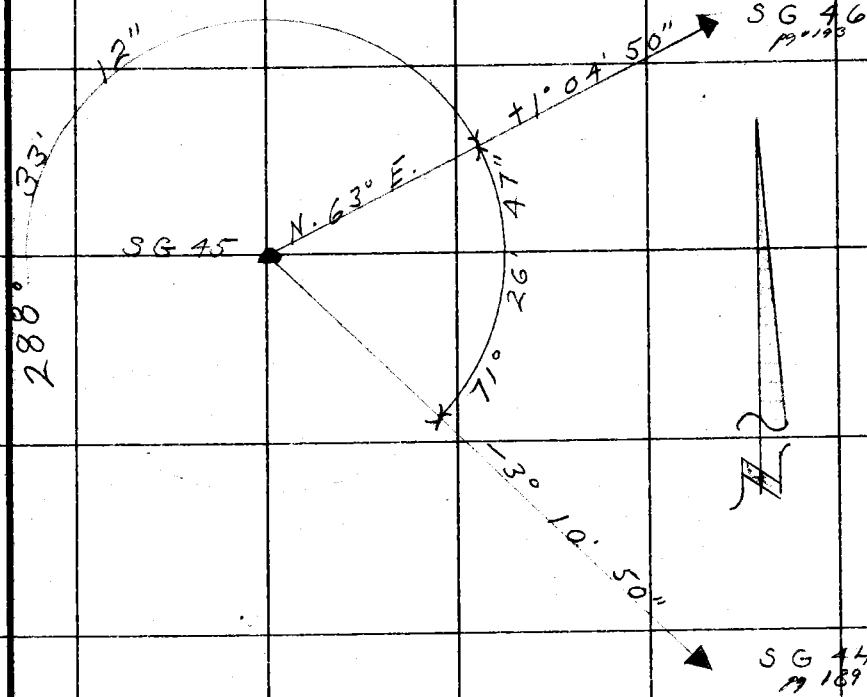
F. B. _____ PG. 19

Map No. _____
Office Work _____
Checked _____
Date _____

W. O. _____ Tape No. _____ Std. _____
Surveyed by L. SMITH - W. COWHERD
Notes L.V.S. Date 7/8/55
Indexed A. C. Johnson

SG 45

SET 3/4 I.P. WITH CAP OUT [illegible]
PIPE SET ON SMALL SPUR ON SOUTH SIDE OF ALDER GULCH. 5200± W. OF JUNCTION OF ALDER GULCH & EAST FORK SAN GABRIEL RIVER



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TRANSIT AT STATION SG 45 F.B. 1862 PG 191 H.I. 4.68

SIGHT ON	ROD	+VERTICAL -ANGLE	HORIZONTAL DISTANCE	+VERTICAL -DISTANCE	+CURVATURE CORRECTION	+DIFFERENCE -ELEVATION	ADJUSTED DIFF. ELEV.
SG 46	-10.00	+ 1° 04' 40"					
		+ 1 05 00					
		+ 1 04 50					
SG 44	-10.00	-3° 11' 00"					
		-3 10 40					
		-3° 10' 50"					

SG-46 to SG-44

1)	71°	26'	50"
4)	285	47	20
6)	68	46	40
	71°	26'	47"

SG-44 to SG-46

1)	288°	33'	10"
4)	74	14	20
6)	291	19	10
	288°	33'	12"

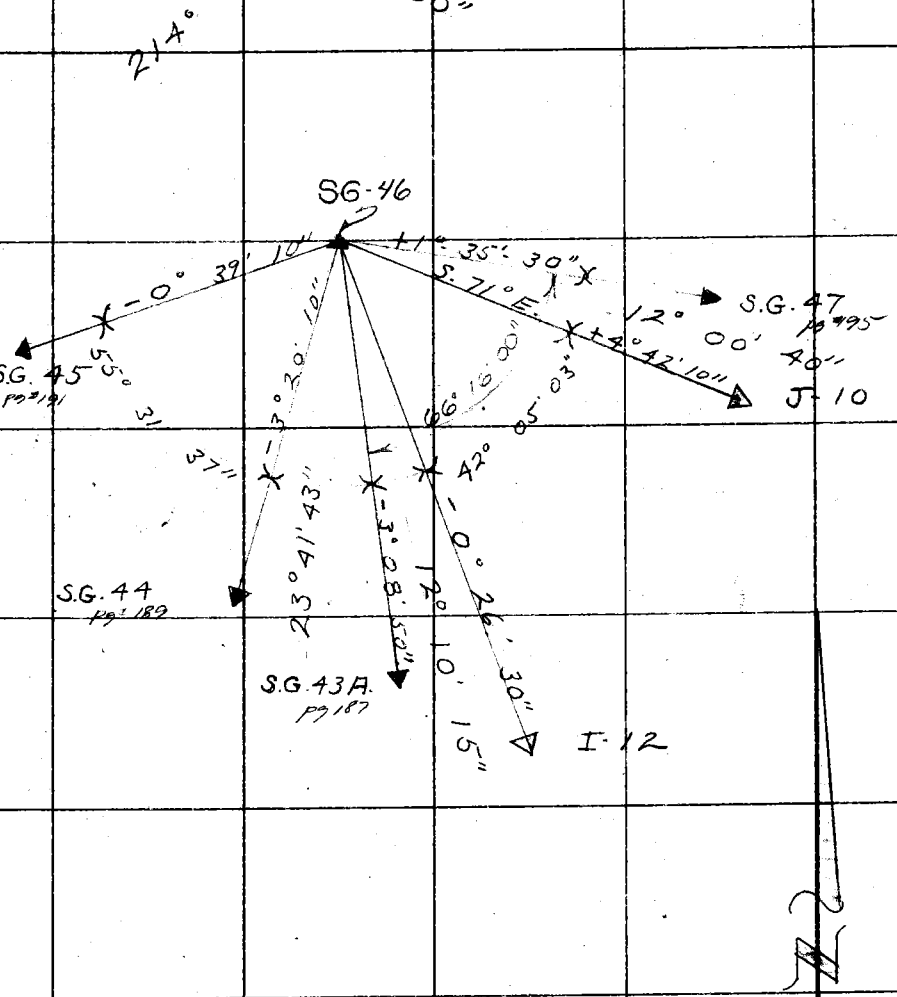
F.B. 1862 PG. 192

F. B. _____ PG. _____

Map No. _____	W. O. [illegible] Tape No. _____ Std. _____
Office Work _____	Surveyed by L. SMITH - W. COWHERD
Checked _____	Notes L. V. SMITH Date 7-18-55
Date _____	Indexed K. C. Johnson

S.G. 46

SET 3/4 I.P. WITH CAP OF [illegible] CAP STAMPED [illegible]
PIPE SET ON SLOPE ON NORTH SIDE OF ALDER GULCH. 4500' ± WEST OF JUNCTION OF ALDER GULCH & EAST FORK SAN GABRIEL RIVER.



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TRANSIT AT STATION SG 46 F.B. 1882 PG 193 H.I. 5.03

SIGHT ON	ROD	+VERTICAL - ANGLE	HORIZONTAL DISTANCE	+VERTICAL - DISTANCE	+CURVATURE CORRECTION	+DIFFERENCE -ELEVATION	ADJUSTED DIFF. ELEV.
J-10	-10.00	+ 4° 42' 00" + 4 42 20 + 4 42 10					
I-12	-10.00	- 0° 26 40 - 0 26 20 - 0 26 30					
SG 43A	-10.00	- 3° 09' 00" - 3 08 40 - 3° 08 50					
SG 44	-10.00	- 3° 20 20 - 3 20 00 - 3 20 10					
SG 45	-5.00	- 0 39 20 - 0 39 00 - 0 39 10					
SG 47	-10.00	+ 1° 35 20 + 1 35 40 + 1 35 30					

J-10 to I-12

1) 42° 05' 00"
4) 168 20 00
6) 252 30 20
42° 05' 03"

I-12 to SG-43A

1) 12° 10' 10"
4) 48 40 40
6) 73 01 30
12° 10' 15"

SG-43A to SG-44

1) 23 41 40
4) 94 46 40
6) 142 10 20
23 41 43

SG-44 to SG-45

1) 55° 31' 30"
4) 222 06 20
6) 333 09 40
55° 31 37

SG-45 to SG-47

1) 214° 30' 30"
4) 138 02 00
6) 207 03 00
214° 30' 30"

SG-47 to J-10

1) 12° 00' 40"
4) 48 02 40
6) 72 04 00
12° 00' 40"

SG-47 to SG-43A

1) 66° 16' 00"
4) 265° 04 00
6) 397 36 00
66° 16' 00"

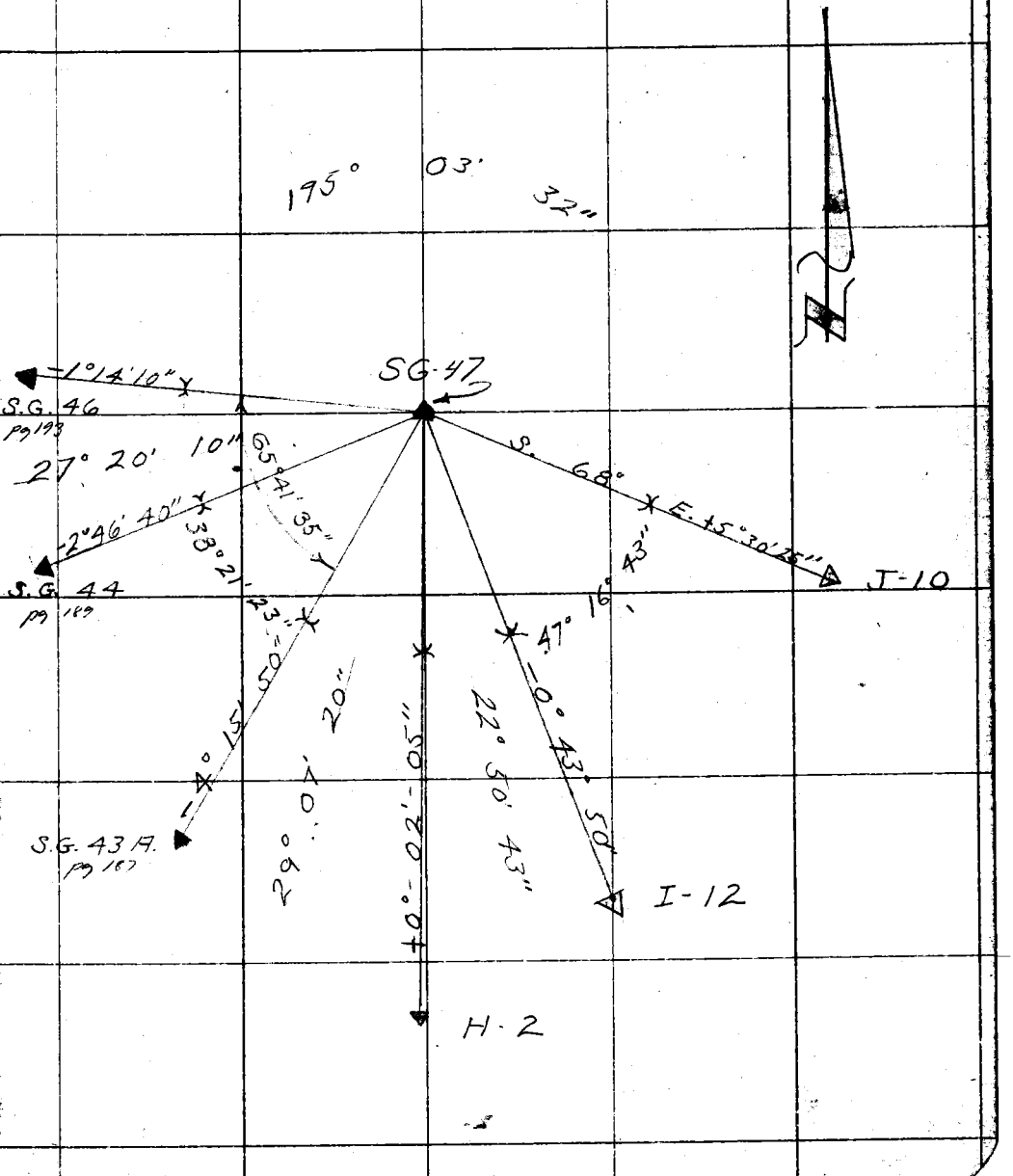
F.B. 1882 PG. 194

F. B. _____ PG. 19[illegible]

Map No.	W. O. 7.77 Tape No. ____ Sta. ____
Office Work	Surveyed by L. V. SMITH
Checked	Notes L. V. S. Date 7-18-55
Date	Indexed C. Johnson

SG47

SET 3/4" I.P. WITH CAP UP 1" CAP STAMPED SG47
PIPE SET ON NORTH SLOPE OF ALDER GULCH. 1400± NORTH & 1400± WEST OF JUCTION OF ALDER GULCH & EAST FORK SAN GABRIEL RIVER.



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TRANSIT AS STATION SG 47 FB 1882 PG 195 H.I. 4.68

SIGHT ON	ROD	VERTICAL ANGLE	HORIZONTAL DISTANCE	+VERTC. -DISTANCE	+CURVATURE CORRECTION	+DIFFERENCE -ELEVATION	ADJUSTED ELEV.
J-10	-10.00	+5° 30' 10" +5 30 40 +5-30-25					
I-12	-10.00	-0-44-00 -0 43-40 -0-43-50					
H-2	-10.00	+0 01 50 +0 02 20 +0-02-05					
S.G.43A	-10.00	-4-16-00 -4-15-40 -4 15 50					
S.G.44	-10.00	-2 47 00 -2 46 30 -2-46-40					
SG46	-10.00	-1° 14' 20 -1 14 00 -1-14-10					

J10 TO I12

1) 47° 16' 40
4) 189 07 00
6) 283 40 20
47° 16' 43"

I-12 TO H-2

1) 22° 50' 40"
4) 91 22 40
6) 137 04 20
22° 50' 43"

H-2 TO SG 43A

1) 29° 07' 10"
4) 116 29 00
6) 174 44 00
29° 07' 20"

SG43A TO SG44

1) 38° 21' 10"
4) 153 25 30
6) 230 08 20
38° 21' 23"

SG44 TO SG 46

1) 27° 20' 00"
4) 109 20 40
6) 164 01 00
27° 20' 10"

SG46 TO J-10

1) 195 03 30
4) 60 14 00
6) 90 21 10
195 03 32

SG-43A TO SG-46

1) 65° 41' 30"
3) 262° 46' 20"
3) 34° 59' 38"
65° 41' 35"

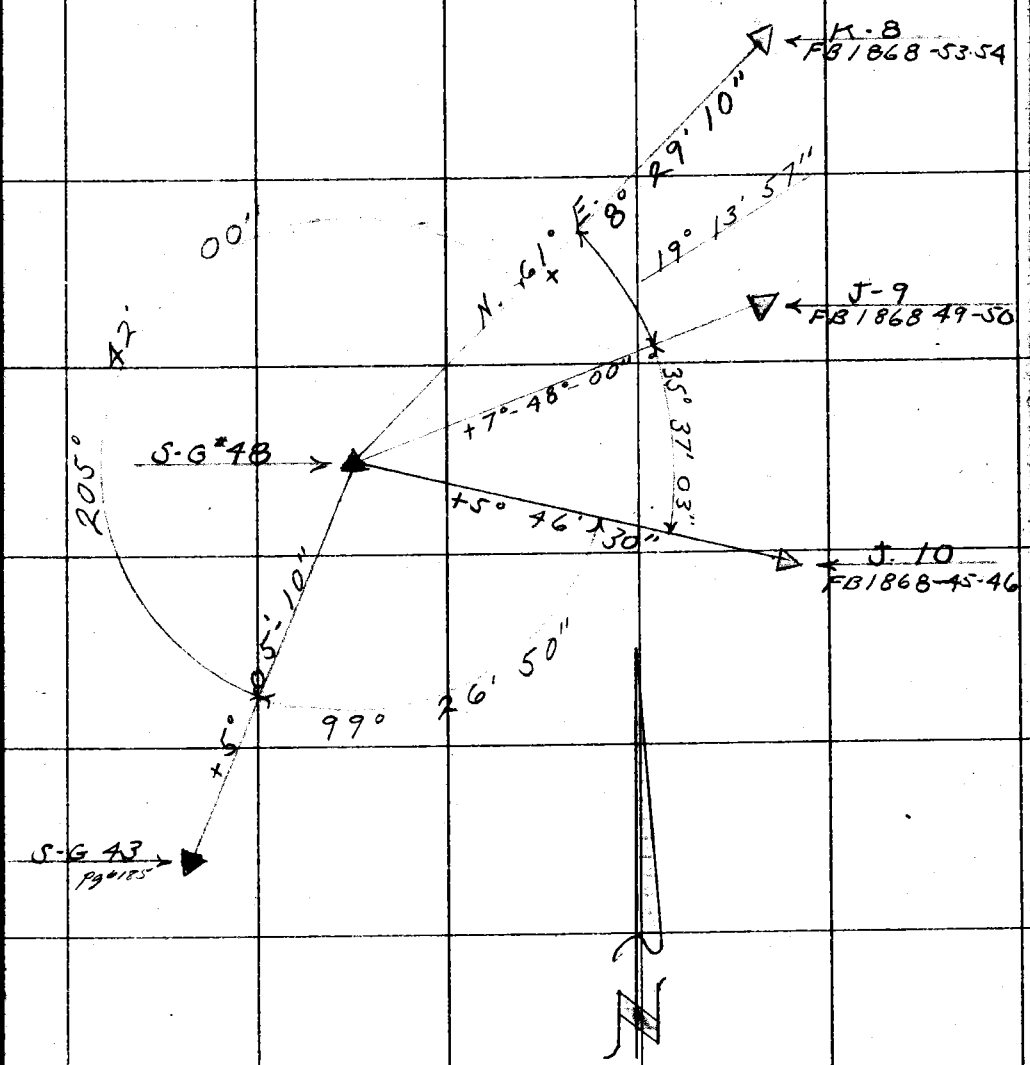
F.B. 1882 Pg. 196

F. B. 1000 PG. [illegible]

Map No.	W. O. [illegible] Tape No. Sta.
Office Work	Surveyed by L. V. SMITH
Checked	Notes L. V. S. Date 7/18/55
Date	Indexed R. C. Johnson

S.G. 48

SET 3/4" I.P. WITH CAP STAMPED SG 48 [illegible]
PIPE SET ON HIGH RIDGE ON NORTH SIDE OF ALDER GULCH - 100' ± E. OF PROPOSED CENTER LINE.



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TRANSIT AT S.G. 48 F.B. 1882 PG. 197 H.I. 4.66

SIGHT ON	ROD	+ VERTICAL − ANGLE	HORIZONTAL DISTANCE	+ VERTICAL − DISTANCE	+ CURVATURE CORRECTION	+ DIFFERENCE − ELEVATION	ADJUSTED DIM. ELEV.
K-8	-10.00	+8 29 00					
		+8 29 20					
		+8 29 10					
J. 9	-10.00	+7-48-00					
		+7-48-00					
		+7° 48' 00					
J-10	-10.00	+5-46-20					
		+5-46-40					
		+5-46-30					
S.G. 43	-10.00	+5-05-00					
		+5-05-20					
		+5-05-10					

	K-8 TO J-9			J-9 TO J-10			J-10 TO SG 43			SG 43 TO K 8		
1)	19°	13'	50"	35°	36'	50"	99°	26	50	205°	42	00
4)	76	55	40	142	28	00	37	47	20	102	48	00
6)	115	23	40	213	42	20	236	41	00	154	12	00
	19°	13'	57"	35°	37'	03"	99°	26'	50"	205°	42'	00"

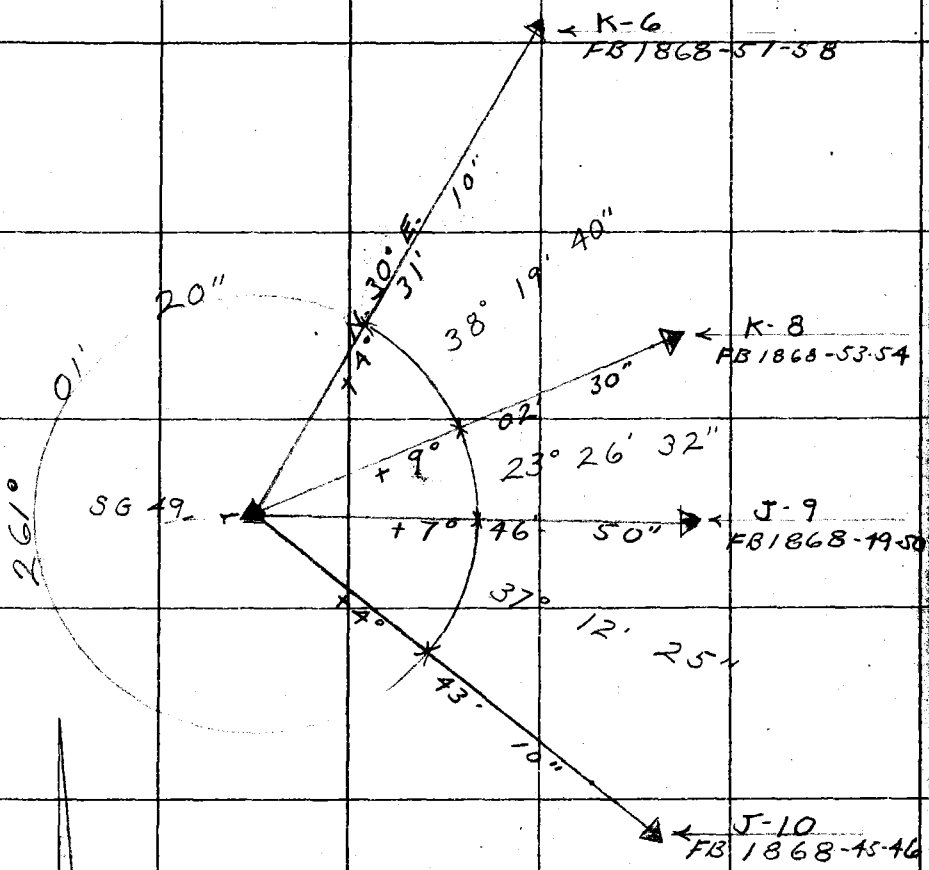
F.B. 1882 PG. 198

Map No.	W. O.	Tape No.
Office Work	Surveyed by L. V. SMITH	
Checked	Notes L. V. SMITH Date 7-18-55	
Date	Indexed C. Johnson	

F. B. _____ PG. _____

SG 49

SET 3/4" I.P. WITH [illegible] PIPE SET ON SMALL SPUR 5000' ± SOUTH OF & 2400' ± WEST OF JUNCTION OF MINE GULCH & PRAIRIE FORK WITH EAST FORK SAN GABRIEL RIVER.



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TRANSIT AT STATION S-G 49 F.B. 1882 PG. 199 H.I. 4.67

SIGHT ON	ROD	+VERTICAL -ANGLE	HORIZONTAL DISTANCE	+VERTICAL -DISTANCE	+CURVATURE CORRECTION	+DIFFERENCE -ELEVATION	ADJUSTED DIFF. ELEV.
K-6	-5.00	+4° 31' 00" +4 31 20 +4° 31' 10"					
K-8	-10.00	+9 02 20 +9 02 40 +9° 02' 30"					
J-9	-10.00	+7° 46' 40" +7 47 00 +7° 46' 50"					
J-10	-10.00	+4 43 00 +4 43 20 +4 43 10					

K-6 TO K-8

1)	38°	19'	40"
4)	153	18	40
6)	229	58	00
	38°	19'	40"

K-8 TO J-9

1)	23°	26'	30"
4)	93	46	30
6)	140	39	10
	23°	26'	32"

J-9 TO J-10

1)	37°	12'	20"
4)	148	50	00
6)	223	14	30
	37°	12'	25"

J-10 TO K-6

1)	261°	01'	20"
4)	324	05	20
6)	126	08	00
	261°	01'	20"

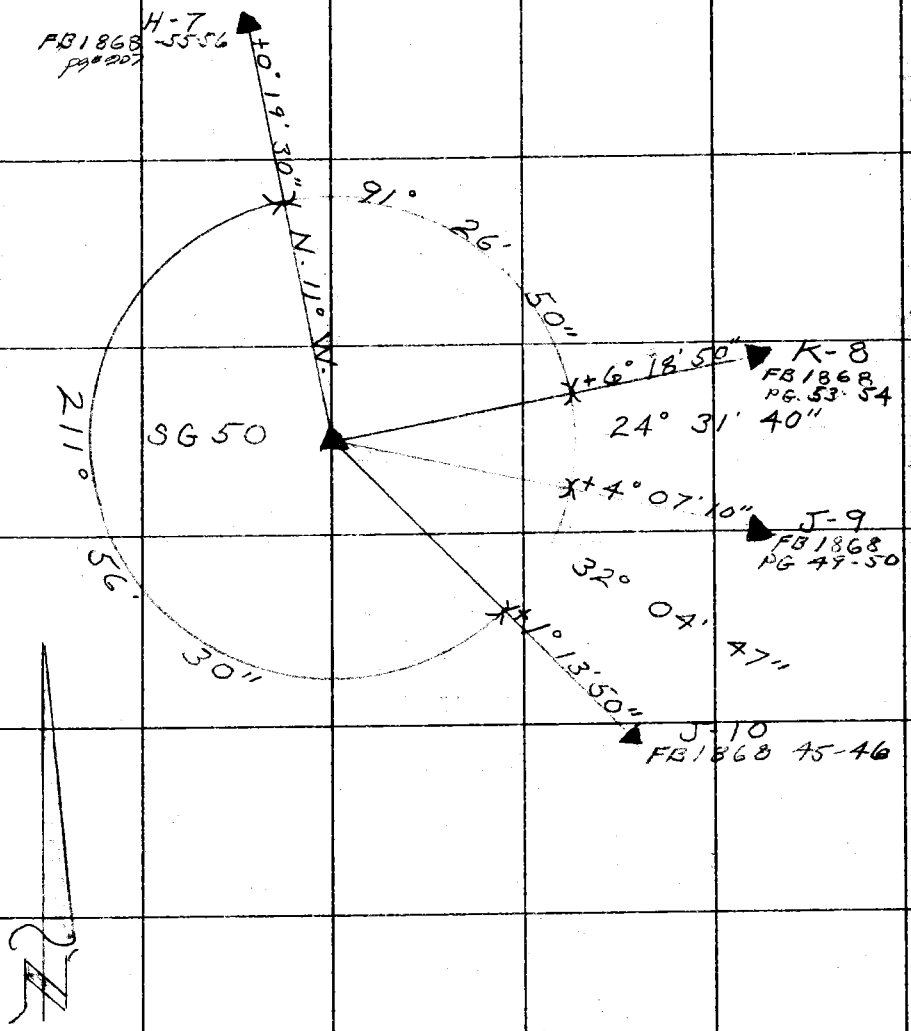
F.B. 1882 PG. 200

Note Chk'd by [illegible]	Survey of [illegible]
Map No.	W. O. [illegible] Tape No. Sta.
Office Work	Surveyed by L. Smith W. Cowherd
Checked	Notes L.V. SMITH Date 7-15-55
Date	Indexed [illegible] C. Johnson

F. B. Pg.

SG 50

SET [illegible] PIPE SET ON TOP OF RIDGE ON PROPOSED TUNNEL SITE. 3000' ± SOUTH & 2200' WEST OF JUNCTION OF MINE GULCH & PRAIRIE FORK WITH EAST FORK SAN GABRIEL RIVER.



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TRANSIT AT STATION SG-50 F.B. 1882 PG. 201 H.I. 4.62

SIGHT ON	-ROD	+VERTICAL -ANGLE	HORIZONTAL DISTANCE	+VERTICAL +CURVATURE -DISTANCE CORRECTION	+DIFFERENCE -ELEVATION	ADJUSTED DIFF. ELEV.
H-7	-10.00	+ 0° 19' 20" + 0 19 40 + 0° 19' 30"				
K-8	-9.00	+ 6° 18' 40" + 6 19 00 + 6° 18' 50"				
J-9	-10.00	+ 4° 07' 00" + 4 07 20 + 4° 07' 10"				
J-10	-10.00	+ 1° 13' 40" + 1 14 00 + 1° 13' 50"				

H-7 TO K-8

1)	91° 26'	50"
4)	05 47	30
6)	188 41	00
	91° 26'	50"

K-8 TO J-9

1)	24° 31'	10"
4)	98 06	0
6)	147 10	50
	24° 31'	05"

J-9 TO J-10

1)	32° 04'	40"
4)	128 19	20
6)	192 28	40
	32° 04'	47"

J-10 TO H-7

1)	211° 56'	20"
4)	127 46	00
6)	191 39	00
	211° 56'	30"

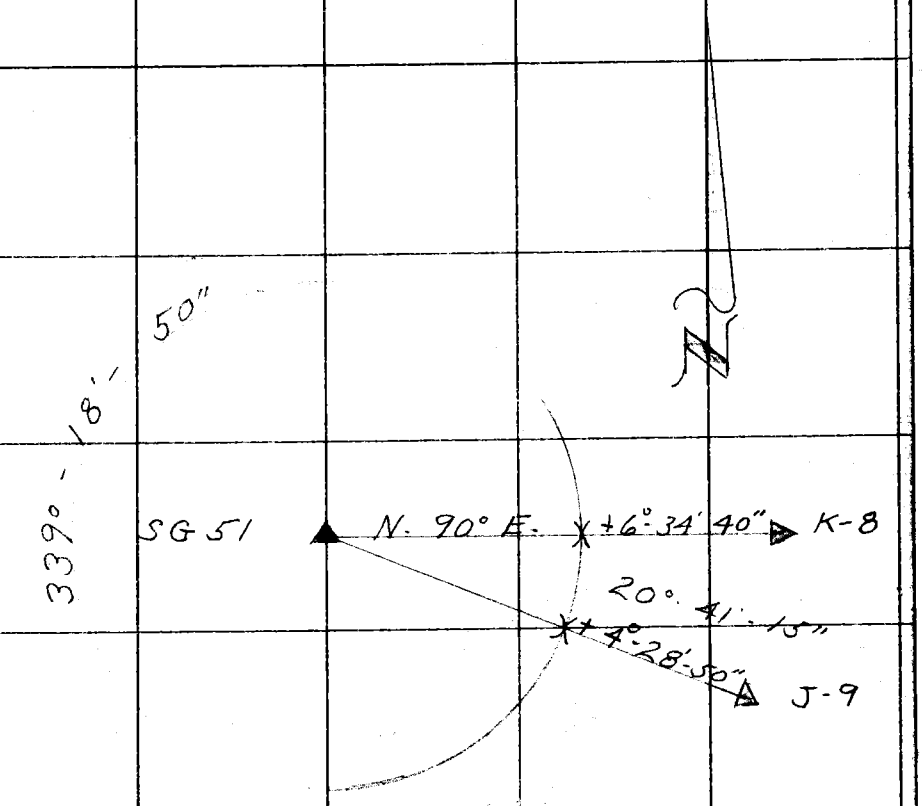
F.B. 1882 PG. 202

Note Ch'd by [illegible]	Survey of [illegible]
Map No.	W. O. [illegible] Tape No. Sta.
Office Work	Surveyed by L. Smith - W. Cowherd
Checked	Notes I.V.S. Date 7-21-55
Date	Indexed K. C. Johnson

F. B. Pg.

SG 51

[illegible] WITH [illegible] SG 51
PIPE SET ON E. SLOPE OF SPUR. 3000' ± WEST & 2500' ± SOUTH OF JUNCTION OF MINE GULCH & PRAIRIE FORK WITH EAST FORK SAN GABRIEL RIVER



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TRANSIT AT STATION SG 51 FB1882 PG 203 H.I. 4.17

SIGHT ON	ROD	+VERTICAL - ANGLE	HORIZONTAL DISTANCE	+VERTICAL CURVATURE - DISTANCE CORRECTION	+DIFFERENCE - ELEVATION	ADJUSTED DIFF. ELEV.
K-8	-10.00	+6°-34-40 +0 00 00 +6°34-40				
J-9	-10.00	+4°28-40 +4-29-00 +4-28-50				

K-8 TO J-9

1)	20°	41'	10"
4)	82	45	20
6)	124	07	30
	20°	41'	15"

J-9 TO K-8

1)	339°	18'	50"
4)	2	15	20
6)	235	53	00
	339°	18'	50"

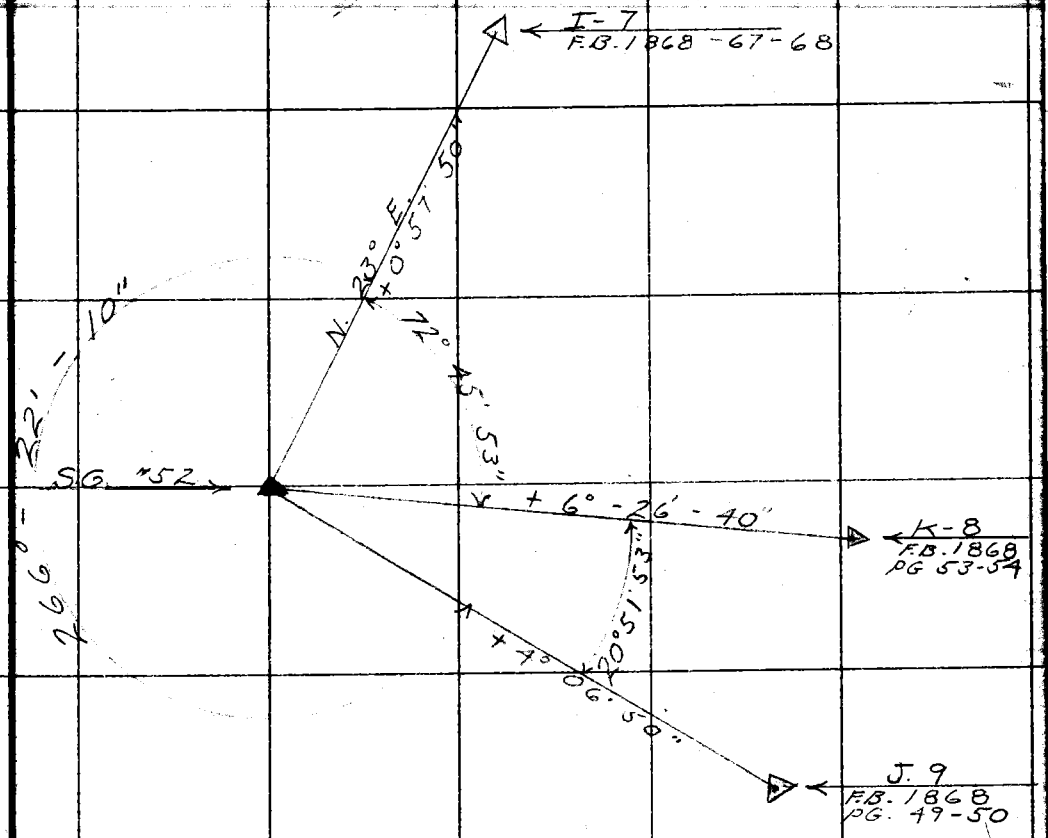
F.B. 1882 PG. 204

F. B. _____ PG. _____

Map No. _____
Office Work _____
Checked _____
Date _____

W. O. _____ Tape No. _____ Std. _____ °F
Surveyed by _____
Notes _____ Date 2/21/__
Indexed C. Johnson

S.G. #52



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TRANSIT AT STA S.G. "52 F.B. 1882 PG. 205 H.I. 4.56

SIGHT ON	ROD	VERTICAL ANGLE	HORIZONTAL DISTANCE	+ VERTICAL CORRECTION	CURVATURE CORRECTION	REFRACTION CORRECTION	ADJ. ELEV.
I-7	-10.00	+ 0 -57-40					
		+ 0 -58 00					
		+ 0 -57 50					
K-8	-10.00	+ 6 -26-40					
		+ 6 -26 40					
		+ 6 -26 40					
J-9	-10.00	+ 4 -06 40					
		+ 4 07 00					
		+ 4 -06 50					

I-7 to K-8

3) 72° 45' 50"
4) 291 03 40
6) 76 35 20
72° 45' 53"

K-8 to J-9

1) 20° 51' 50
4) 83 27 2
6) 125 11 3
20° 51' 53"

J-9 to I-7

1) 266 22 00
4) 345 28 40
6) 138 13 00
266° 22' 10"

F.B. 1882 PG. 206

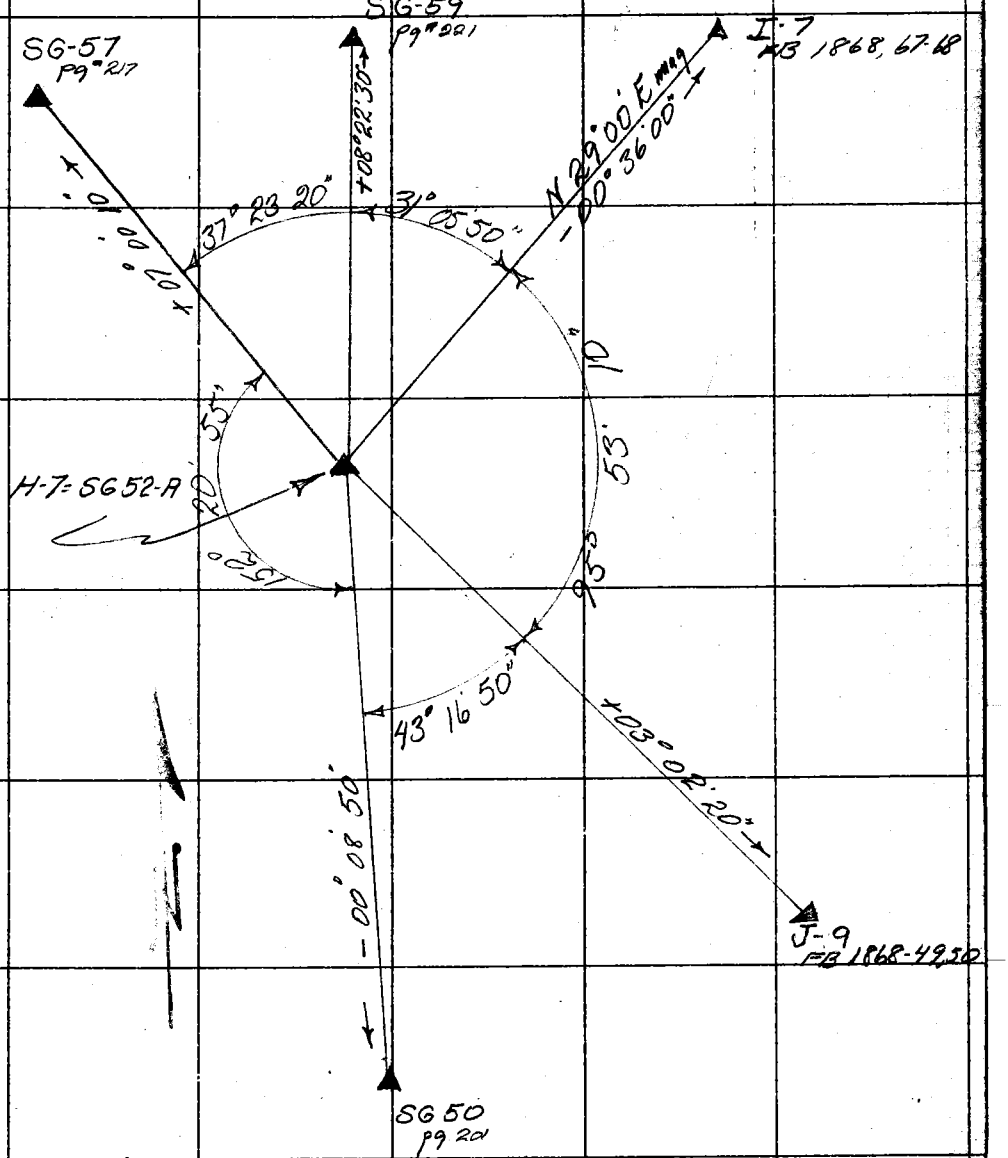
Notes Ch'd by [illegible]
Map No.
Office Work
Checked
Date

Survey of [illegible]
W. O. [illegible] Tape No. Sta.
Surveyed by W.S. Cowherd
Notes W.S.C. Date 7/13/55
Indexed [illegible] C. Johnson

F. B. [illegible] PG. [illegible]

H-7-SG-52-A

Set 3/4" Galv. Pipe & Cap Stamped H-7-SG-52-A up 1" 1/2 mile S.W'ly from Inter of MINE & VINCENT GULCH & PRAIRIE FORK at approx. the 5650' elev. on Top of ridge



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76F3098 247 4-53

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Transit at H-7 = SG-52-A FB 1882 Pg # 8[illegible] HI = 4.99

Sight On	Rod	+ Vertical / - Angle	Horizontal Distance	+ Vertical / - Distance	+ Curvature Correction	+ Difference / - Elevation	Adjusted Diff. Elev.
SG-57	10.00	+ 07 00 10 + 07 00 10 + 07° 00' 10"					
SG-59	10.00	+ 08 22 30 + 08 22 30 08° 22' 30"					
I-7	10.00	- 00° 36' 00" - 00 36 00 - 00 36 00					
J-9	10.00	+ 03 02 20 + 03 02 20 + 03 02 20					
SG-50	10.00	- 00 08 50 - 00 08 50 - 00 08 50					

SG-57 to SG-59	(2) 74 46 40 (4) 149 33 20 (6) 224 19 50 37 23 20	SG-59 to I-7	(2) 62 11 40 (4) 124 23 20 (6) 186 34 40 31 05 50	I-7 to J-9	(2) 191 46 20 (4) 23 32 40 (6) 215 18 50 95 53 10	J-9 to SG-50	(2) 86 33 40 (4) 173 07 20 (6) 259 41 00 43 16 50
SG-50 to SG-57	(2) 304 41 50 (4) 249 23 40 (6) 194 05 20 152 20 55						

F.B. 1882 PG. 208

Name Ck'd by _____ Survey of _____ F. B. _____ Pg. _____

Map No. _____ W. O. _____ Maps No. _____ Sh'ts _____

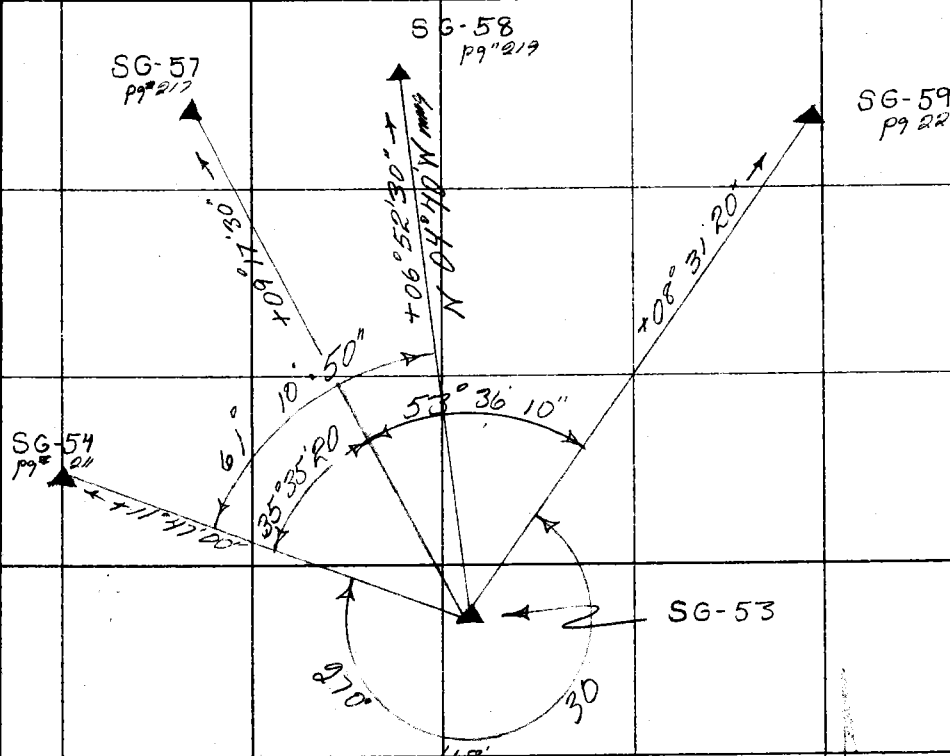
Office Work _____ Surveyed by W. S. Cowherd

Checked _____ Notes W.S.C Date 7/1/55

Date _____ Indexed _____ C. Johnson

SG-53

Set 3/4" Galv. Pipe & Cap Stamped SG-53 up 1" on South Side MINK GULCH. Top of Spur 3409 ± Wly of Inter. MINK & VINCENT GULCH. & PRAIRIE FORK.



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Transit at SG-53 | FB 1882 | Pg 209 | 41 = 4.97

Sight on	Rod	+ Vertical − Angle	Horizontal Distance	+ Vertical − Distance	+ Curvature Correction	+ Difference − Elevation	Adjusted Diff. Elev.
SG-54	5.00	+ 11 47 00 + 11 47 00 + 11 47 00					
SG-57	10.00	+ 09 17 30 + 09 17 30 + 09 17 30					
SG-58	10.00	+ 06 52 30 + 06 52 30 + 06 52 30					
SG-59	10.00	+ 08 31 20 + 08 31 20 + 08 31 20					

F.B. 1882 PG. 212

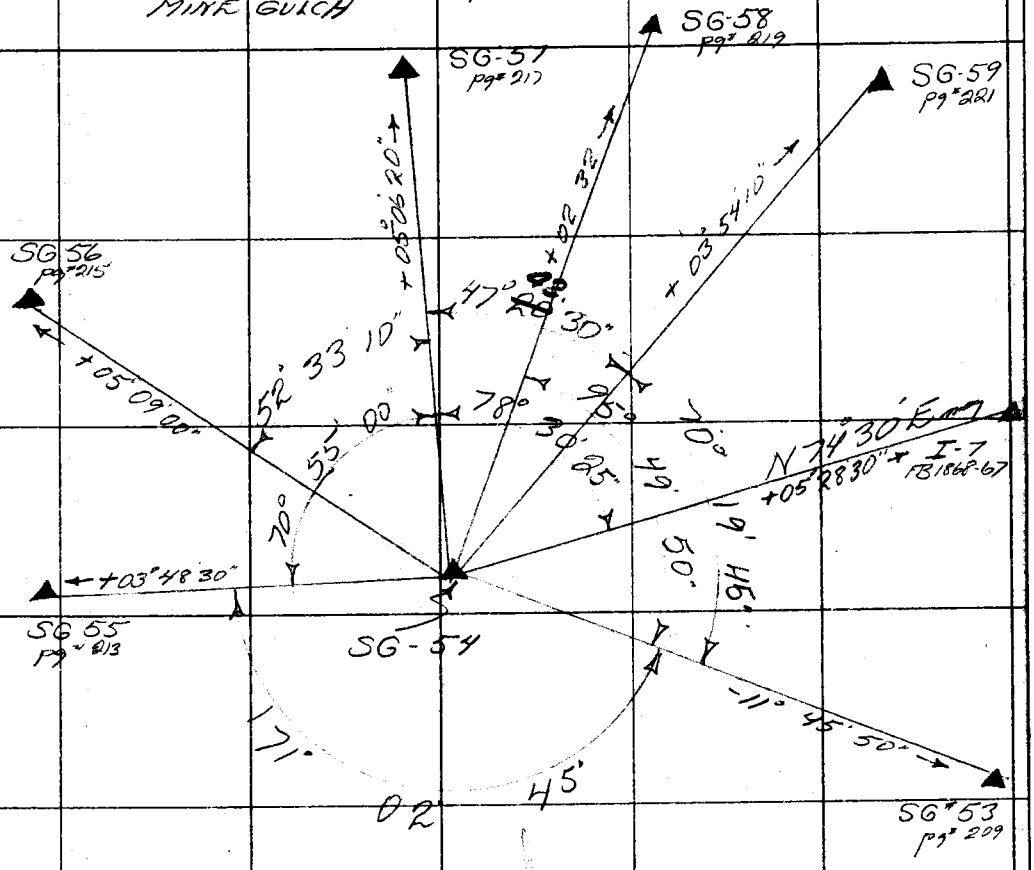
SG 54 to SG 57	(2) 71 10 40 (4) 142 21 40 (6) 213 32 20 35 35 20	SG-54 to SG-58	(2) 122 21 40 (4) 244 43 20 (6) 07 05 00 61 10 30	SG-57 to SG-59	(2) 107 12 20 (4) 214 24 40 (6) 321 37 20 53 36 10	SG-50 to SG-54	(2) 181 37 00 (4) 03 14 00 (6) 184 50 40 270 48 30

Name Ch'd by [illegible]	Survey of [illegible]
Map No.	W. O. [illegible] Tape No. ___ Sta. ___
Office Work	Surveyed by W. S. Cowhead
Checked	Notes W S C Date 7/15/55
Date	Indexed A C Johnson

F. B. [illegible] PG. [illegible]

SG-54

Set 3/4" Galv. Pipe & Cap up 1" S Tamped SG-54 on Top spur. South side MINE GULCH. 500'± Sly from FORKS and 1 mile Wly of Inter PRAIRIE FORK & MINE GULCH



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F.B. 1882 Pg. 210

Transit at		SG-54	F.B. 1882	Pg # 211	H.I. 4.56			
Sight on	Rod	+Vertical -Angle	Horizontal Distance	+Vertical -Distance	+Curvature -correction	+Difference -Elevation	Adjusted Diff Elev.	
SG-58	10.00	+ 02 32 00						
		+ 02 32 00						
		+ 02 32 00						
SG-59	10.00	+ 03 54 00						
		+ 03 54 00						
		+ 03 54 10						
I-7	10.00	- 05 28 40						
		- 05 28 00						
		- 05 28 30						
SG-53	5.00	- 11 46 00						
		- 11 45 40						
		- 11 45 50						
SG-55	10.00	+ 03 48 20						
		+ 03 48 40						
		+ 03 48 30						
SG-56	10.00	+ 05 09 00						
		+ 05 09 00						
		+ 05 09 00						
SG-57	10.00	+ 05 06 20						
		+ 05 06 00						
		+ 05 06 20						
SG 57 to I-7		157 00 50	SG 57 To SG 59	95 25 00	SG-58 To SG 53	191 39 40	SG-59 To SG-53	140 39 40
		314 01 30		190 50 00		23 19 20		281 19 10
		10 02 30		286 15 0		214 59 00		61 58 40
		78 30 25		47 42 30		95 49 50		70 19 45
SG-53 To SG55		342 05 30	SG-55 To SG 57	141 50 00	SG-56 To SG 57	105 00 20		
		324 11 10		603 40 00		810 12 40		
		306 16 40		65 29 40		315 19 20		
		171 02 45		70 55 00		52 33 10		

Notes Ck'd by [illegible]
Map No.
Office Work
Checked
Date

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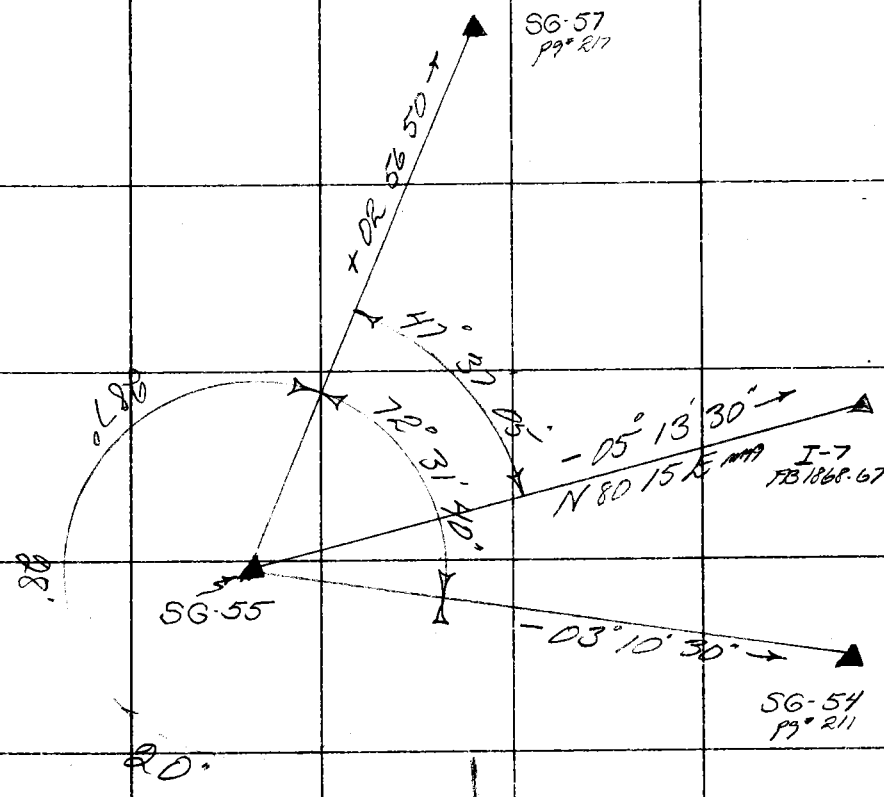
W. O. [illegible] Tape No. Sta.
Surveyed by W. S. Cowherd
Notes W.S.C. Date 7/20/55
Indexed C. Johnson

F. B. 1059 Pg. 212

SG-55

Set 3/4" Galv Pipe & Cap up 1" Top of spur S. entrance of Tunnel. 800'± Wly of FORKS in MINE GULCH & 6000'± Wly of PRAIRIE FORK & MINE GULCH INTER.



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F.B. 1882 Pg. 214

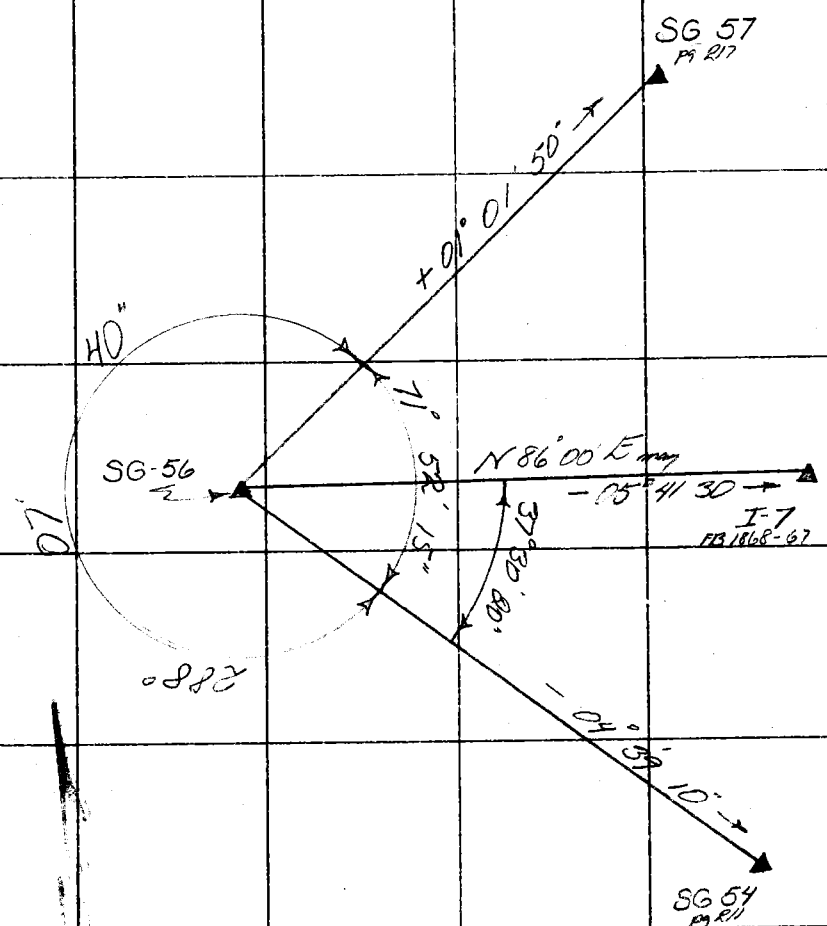
Transit at		SG-55	F.B. 1882	Pg # 213	T.E. = 4.79		
Sight on	Rod	+Vertical -Angle	Horizontal Distance	+Vertical -Distance	+Curvature Correction	+Difference -Elevation	Adjusted Diff Elev.
SG-57	10.00	+ 02 56 40					
		+ 02 57 00					
		+ 02 56 50					
SG-54	10.00	- 03 10 40					
		- 03 10 00					
		- 03 10 30					
I-7	10.00	- 05 13 40					
		- 05 13 00					
		- 05 13 30					
SG-57 To I-7	(2)	95 14 10	SG-57 To SG54	(2) 145 03 20	SG-54 To SG-57	(2) 214 56 40	
	(M)	190 28 30		(M) 290 06 40		(M) 69 53 10	
	(2)	285 42 40		(2) 75 10 00		(2) 284 49 40	
		47 37 05		72 31 40		287 08 20	

F. B. [illegible] PG. [illegible]

Name Chk'd by [illegible]	Survey of [illegible]
Map No.	W. [illegible] Tape No. Sta.
Office Work	Surveyed by N. S. Cowan
Checked	Notes W.S.C. Date 2/19/55
Date	Indexed A. C. Johnson

SG-56

Set 3/4" Galv. Pipe & Cap up 1" on Top Spur S. side MINE GULCH 150'± E. of N. end of Tunnel, 1000'± W. of FORKS



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4

Transit at SG-56 | F.B. 1882 | Pg 215 | H.I = 3.72

Sight on	Rod	+Vertical -Angle	Horizontal Distance	+Vertical -Distance	+Curvature -Correction	+Difference -Elevation	Adjusted Diff. Elev.
SG-57	10.00	+ 01° 01' 40" + 01° 02' 00" + 01° 01' 50"					
SG-54	10.00	- 04 39 20 - 04 39 00 - 04 39 10					
I-7	10.00	- 05 41 40 - 05 41 20 - 05 41 30					
SG57 to SG54	D H V	143 44 30 287 29 00 71 13 30 71 52 15	I7 to SG54	D H V 37 30 30	SG-54 to SG57	D H V R88 07 40	

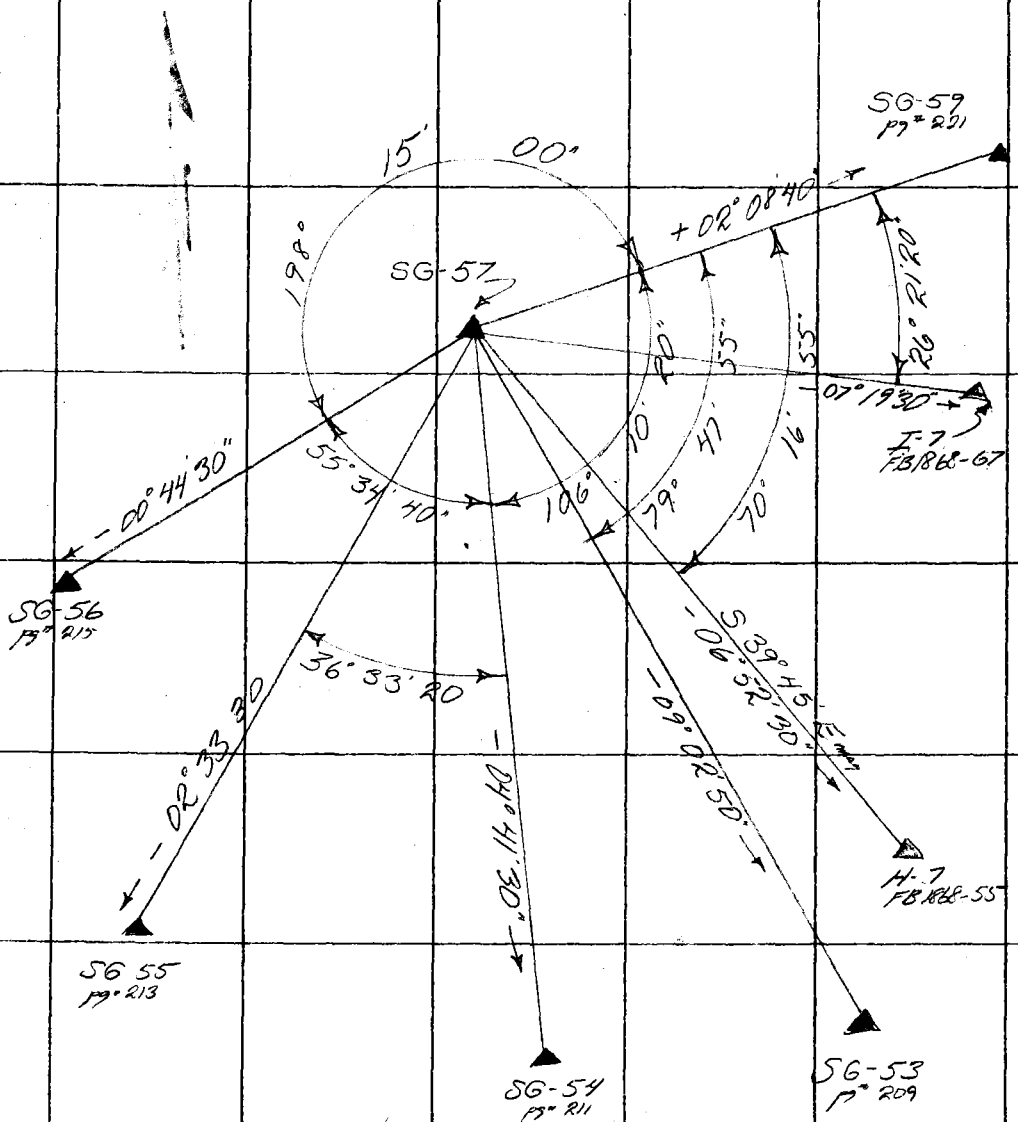
F.B. 1882 Pg. 216

F. B. 1882 PG. 217

Map No.	W. O. Tape No. Sta.
Office Work	Surveyed by W.S. Cousheid
Checked	Notes W.S.C Date 7/27/55
Date	Indexed [illegible] C. Johnson

SG-57

Set 3/4" Galv. Pipe up 1" stamped SG-57 Top of spur 1000'± N. of Forks in MINE GULCH. 6000'± NWly of Inter. of PRAIRIE FORK & MINE GULCH



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Transit at SG-57 | F.B. 1882 | Pg # 217 | H.I = 4.54

Sighted	Rod	+Vertical -Angle	Horizontal Distance	+Vertical -Distance	+Curvature Correction	+Difference -Elevation	Adjusted Diff Elev.
SG-59	10.00	+ 02 08 40 + 02 08 40 + 02 08 40	0374 4510 2547.500	+95.39		+89.93	
I-7	10.00	- 07 19 40 - 07 19 20 - 07 19 30	1285 4647 4022.745	-517.11		-522.57	
H-7	10.00	- 06 52 40 - 06 52 20 - 06 52 30	1205 7060 3997.385	-481.97		-487.43	
SG-54	10.00	- 04 41 40 - 04 41 20 - 04 41 30	0820 6854 1516.142	-124.43		-129.89	
SG-55	10.00	- 02 33 40 - 02 33 20 - 02 33 30	0446 8102 1502.127	-67.12		-72.58	
SG-56	5.00	- 00 44 40 - 00 44 20 - 00 44 30	0129 4525 1266.573	-16.40		-16.86	
SG-53	10.00	- 09 03 00 - 09 02 40 - 09 02 50	1592 2941 2299.476	-366.14		-371.60	

SG-59 to I-7	(2)	52 42 40	SG-59 to H-7	(2)	140 33 50	SG-59 to SG-53	(2)	159 36 00	SG-59 to SG-54	(2)	212 20 40
	(4)	105 25 20		(4)	281 07 30		(4)	319 11 50		(4)	164 41 20
	(6)	158 08 00		(6)	421 41 20		(6)	118 47 30		(6)	272 02 00
		86 21 80			70 16 55			79 47 55			106 10 20
SG-54 to SG-55	(2)	73 06 40	SG-54 to SG-56	(2)	111 09 20	SG-56 to SG-59	(2)	36 30 00			
	(4)	146 13 30		(4)	222 18 40		(4)	73 00 00			
	(6)	219 20 20		(6)	333 28 00		(6)	109 30 00			
		36 33 80			55 34 40			198 15 00			

F.B. 1882 Pg 216

F. B. 1054 PG. 91a

Map No.
Office Work
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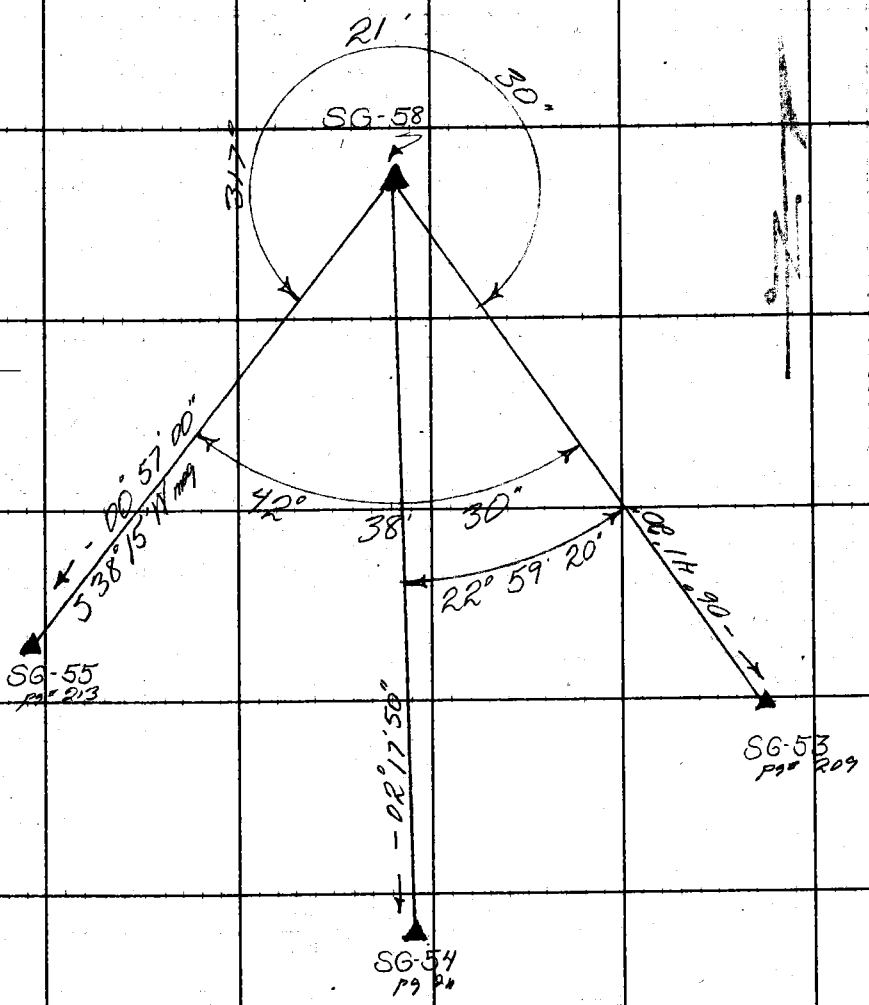
Date

W. O. Tape No. St'd. °F
Surveyed by W. S. Cowhern
Notes W.S.C Date 7/28/55
Indexed C. Johnson

SG-58

Set 3/4 Galv. Pipe & Cap. Stamped SG-58 0P1 on side of ridge. 1100' ± due South of ENTRANCE TO BIG HORN MINE



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F.B. 1882 Pg. 220

Transit at		SG-58	FB 1882	Pg 219	HI = 4.45			
Sight on	Rod	+ Vertical / - Angle	Horizontal Distance	+ Vertical / - Distance	+ Curvature correction	+ Difference - Elev.	Adjusted Diff. Elev.	
SG-53	10.00	- 06 41 20 - 06 41 20 - 06 41 20	1172 7640 2947.525	-345.68		-351.23		
SG-54	10.00	- 02 18 00 - 02 17 40 - 02 17 50	0401 1559 2595.802	-104.13		-109.68		
SG-55	10.00	- 00 57 00 - 00 57 00 - 00 57 00	0165 8215 2811.097	- 46.61		- 52.16		
SG-53 To SG-54	(1)	45 58 40	SG-54 To SG-55	(1)	85 17 00	SG-55 To SG-55	(1)	94 43 00
	(2)	91 57 30		(2)	170 34 15		(2)	189 26 00
	(3)	137 56 10		(3)	255 51 60		(3)	284 09 00
		22 59 20			170 38 30			317 01 30

F. B. 1004 Pg. 99+

Map No.
Office Work
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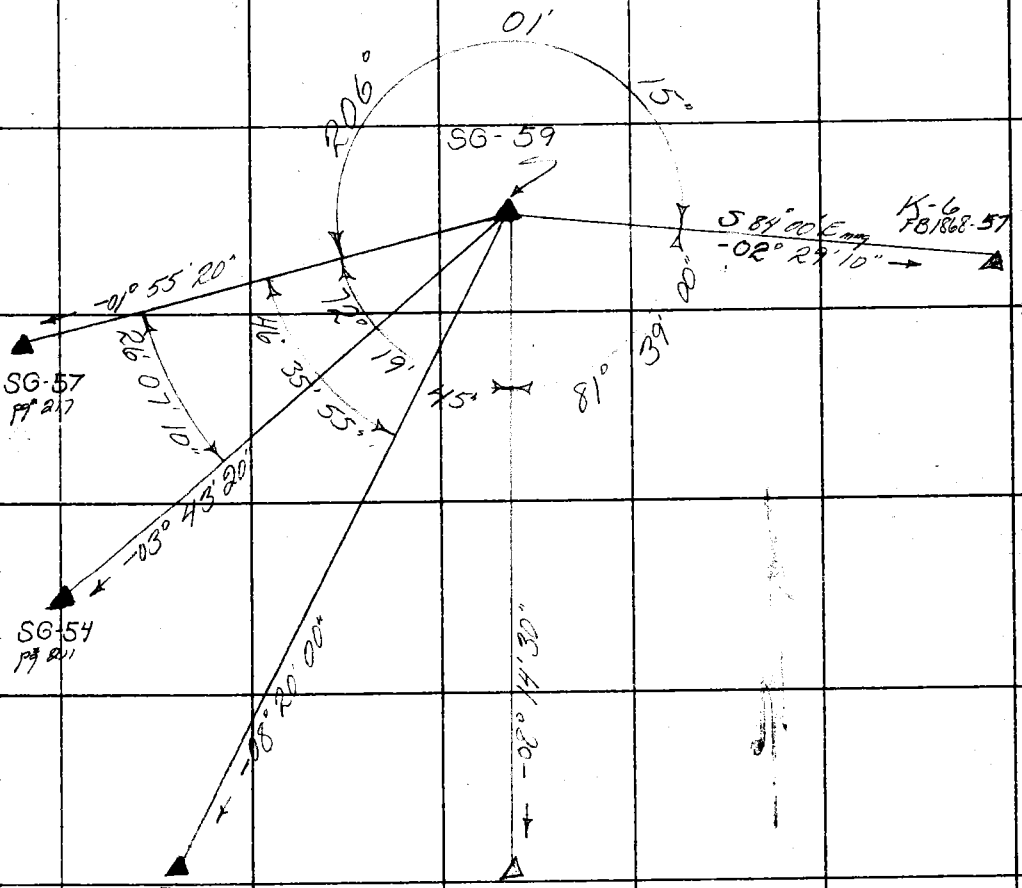
Date

W. O. [illegible] Map No. [illegible] Sht. [illegible]
Surveyed by W.S. Lawler
Notes W.S.C. Date 7/18/55
Indexed M. C. Johnson

SG-59

Set 1½" Galv. Pipe w Cap, Stamped SG-59 up 1" on S side of ridge Leading from BIG HORN MINE 1 mile ± To Inter with PRAIRIE FORK, MINE & VINCENT GULCH at Approx. The 6150'± elev.



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Transit at SG-59 | FB 1882 | Pg 29 | HI = 4.66

Sight on	Rod	+ Vertical − Angle	Horizontal Distance	+ Vertical − Distance	+ Curvature Correction	+ Difference − Elev	Adjusted Diff Elev.
K-6	10.00	− 2° 29' 20"	0434 1808				
		− 2° 29' 00"					
		2° 29' 10"	5214.592	-226.41		-231.75	
H-7 • SG-52A	10.00	− 8° 14' 40"	1448.4460				
		− 8° 14' 20"					
		− 8° 14' 30"	3949.341	-572.04		-577.38	
SG-53	10.00	− 8° 20' 00"	1464 7843				
		− 8° 20' 00"					
		− 8° 20' 00"	3114.858	-456.26		-461.60	
SG-54	10.00	− 3° 43' 20"	0650 5658				
		− 3° 43' 00"					
		− 3° 43' 20"	3307.566	-215.18		-220.52	
		− 1° 55' 20"	0335 6170				
SG-57	10.00	− 1° 55' 20"					
		− 1° 55' 20"	2547.500	-85.50		-90.84	

F.B. 1882 PG. 222

K-6 To H-7

(2)	163	18	00
(4)	326	36	00
(6)	129	53	50
	81	39	00

H-7 To SG-57

(2)	174	39	30
(4)	289	19	00
(6)	73	56	45
	72	19	45

SG-53 To SG-57

(2)	93	12	00
(4)	186	23	50
(6)	279	35	40
	46	35	55

SG-54 To SG-57

(2)	52	14	20
(4)	104	28	40
(6)	156	43	20
	26	07	10

F.B. 1882 PG. 223

SG-57 To K-6

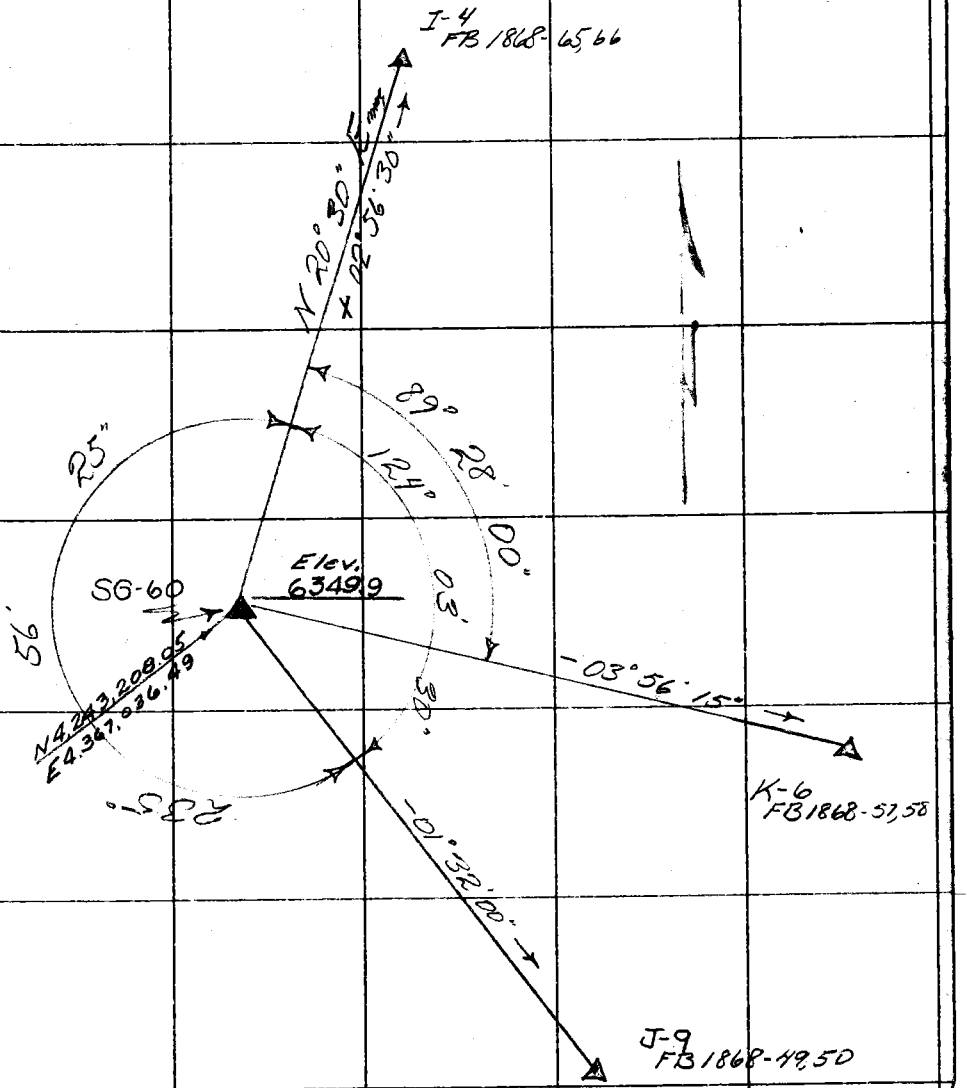
(2)	52	02	40
(4)	104	05	10
(6)	156	07	40
	206	01	15

F. B. 1900 PG. 907

Map No.	W. O. 101.1 Tape No. Sta.
Office Work	Surveyed by W. S. Cowherd
Checked	Notes W.S.C. Date 7/25/55
Date	Indexed A. C. Johnson

SG-60

Set 3/4" Galv. Pipe & Cap. up 1" in saddle. Top of Tunnel site. 1000'± Ely of BIG HORN MINE Stamped SG-60



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Transit at SG-60 FB 1882 Pg 223 HI = 4.16

Sight on	Rod	+ Vertical - Angle	Horizontal Distance	+ Vertical - Distance	+ Curvature Correction	+ Diff - elev.	Adjusted Diff Elev.
I-4	10.00	+ 02 56 45 + 02 56 15 A 02 56 30	0513 8693 4036.135	+227.96		+222.12	
K-6	5.00	- 03 56 30 - 03 56 00 - 03 56 15	06883073 5816.530	-400.36		-401.20	
J-9	10.00	- 01 32 15 - 01 31 45 - 01 32 00	02676811				

F.B. 1882 Pg. 224

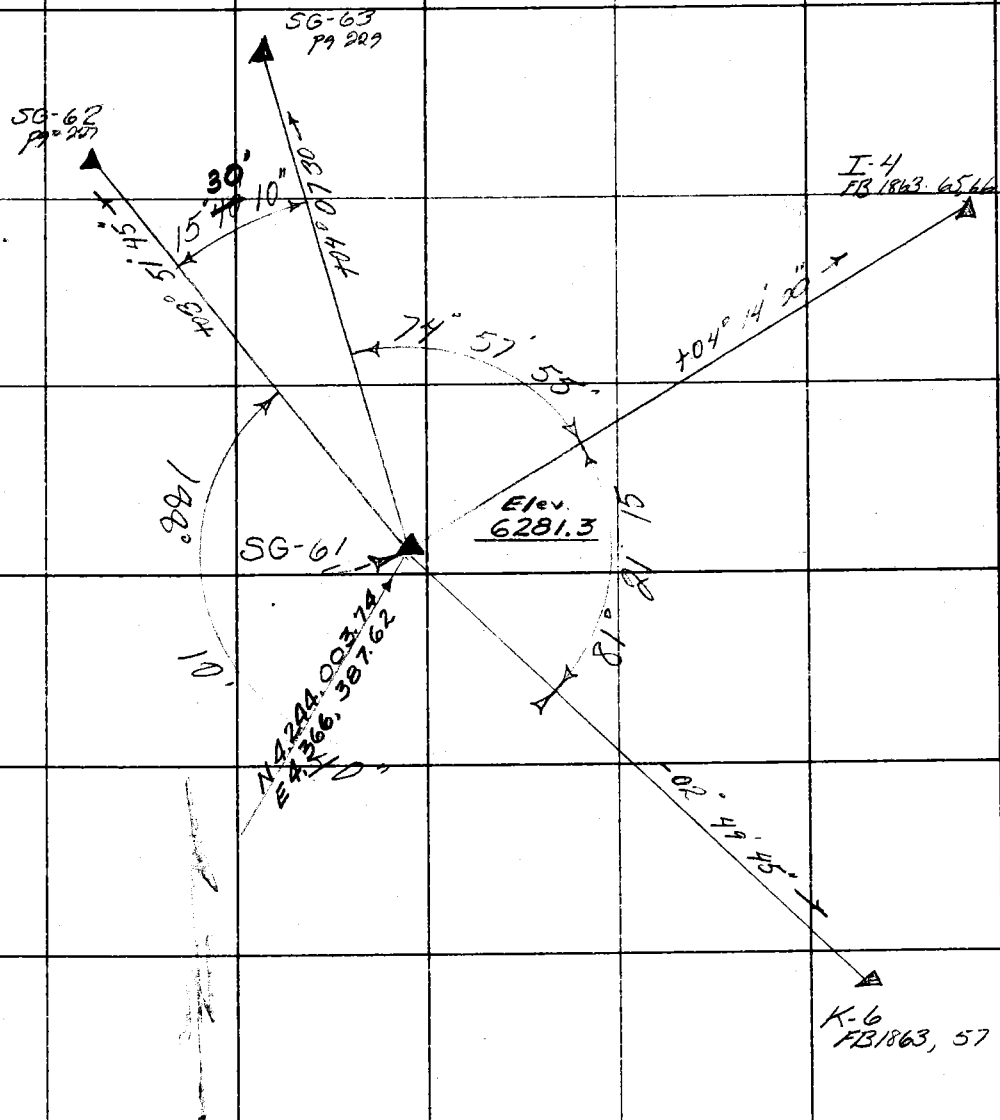
I-4 To K-6	(1)	178	56	00	I-4 To J-9	(1)	848	07	00	J-9 To I-4	(2)	111	52	45
	(4)	357	52	00		(4)	136	14	00		(4)	223	45	30
	(6)	176	48	00		(6)	84	01	00		(6)	335	38	30
		89	28	00			124	03	30			235	56	60

F. B. 1852 Pg. 225

Notes Ch'd by Miller	Survey of [illegible]
Map No.	W. O. [illegible] Tape No. Std.
Office Work	Surveyed by W. S. Cowherd
Checked	Notes W.S.C. Date 7/18/55
Date	Indexed E. C. Johnson

SG-61

Set 3/4" Galv Pipe & Cap with cork, collar Stamped SG-61 up 1", 2400'± S. Ely of SG-63 Top of spur & 800'± Ely of dirt road To BIG HORN MINE



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Transit at SG-61 | FB 1882 | Pg 82 | HI 4.57

Sight To	Rod	+ Vertical - Angle	Horizontal Distance	+ Vertical - Distance	+ Curvature Correction	+ Difference - Elev.	Adjusted Diff. Elev.
I-4	10.00	+ 4° 14 00	0740 2035				
		+ 4 14 00	4.005.869	+296.50		+291.09	
		+ 4 14 00					
K-6	5.00	- 2 50 30	0494 1844				
		- 2 49 30	6713.465	-331.77		-332.20	
		- 2 49 45					
SG-62	10.00	+ 3 51 30	0675 1565				
		+ 3 52 00	1457.916	+98.43		+93.00	
		+ 3 51 45					
SG-63	10.00	+ 4 07 30	0721 1948				
		+ 4 07 30	2268.691	+163.60		+158.19	
		+ 4 07 30					

F.B. 1882 PG 296

I-4 to K-6	(2)	162	42	30	K-6 to SG-62	(2)	16	21	15	SG-62 to SG-63	(2)	31	00	15	SG-63 to I-4	(2)	149	55	45
	(4)	325	25	00		(4)	32	12	30		(4)	62	00	45		(4)	299	51	40
	(6)	122	07	30		(6)	49	04	00		(6)	93	01	10		(6)	89	47	15
		61	21	15			188	10	40			15	30	10			74	57	55

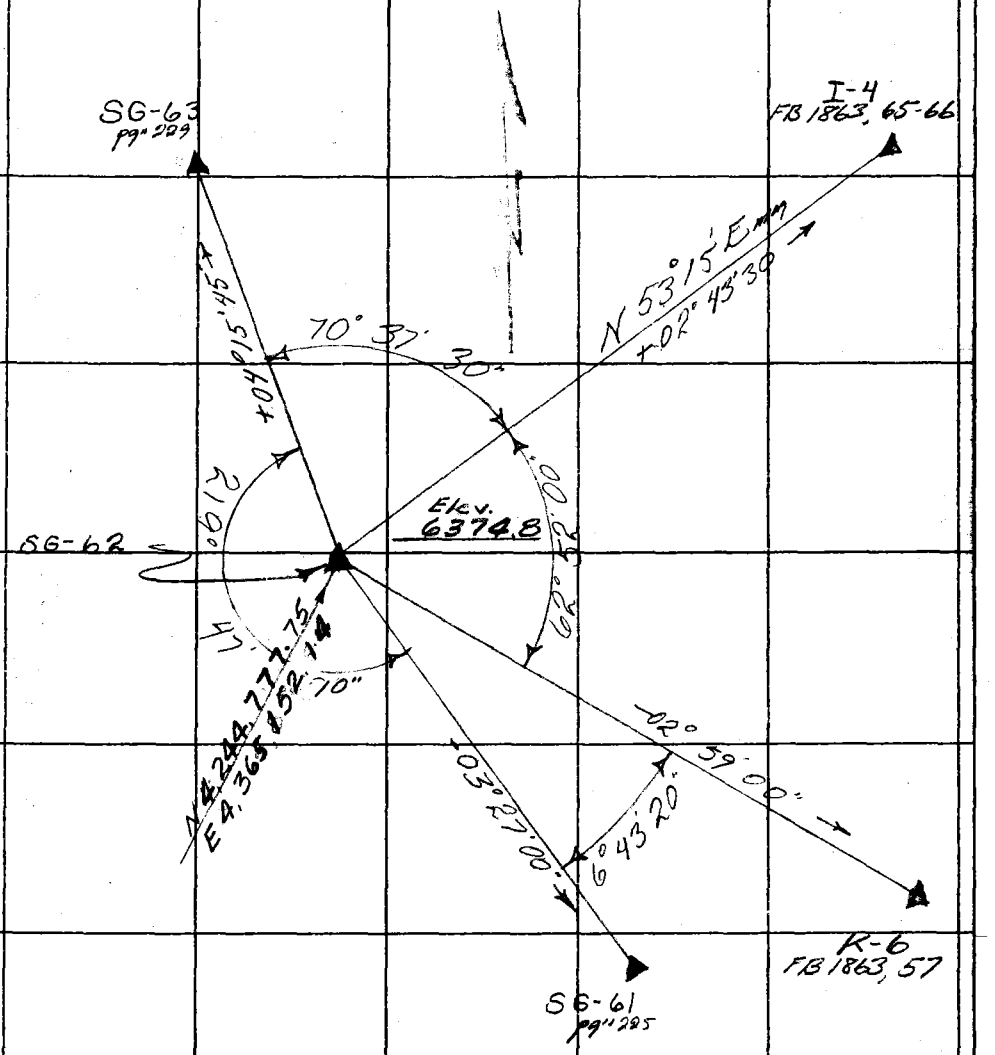
Map No.
Office Work
Checked
Date

Surveyed by U.S. Courtney
Notes U.S.C. Date 7/15/55
Indexed C. Johnson

F. B. Pg.

SG-62

Set ¾" Galv. Pipe & Cap with Conc. Collar Stamped SG-62 up 1". 1100'± Sly of SG-63 on Top of Spur. & 400'± Ely of dirt road to BIG HORN MINE



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76F3095 S&E #247. 8-54

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Transit at SG-62 FB 1882 Pg 22 HI = 4.55

Sight on	Rod	+ Vertical − Angle	Horizontal Distance	+ Vertical − Distance	+ Curvature Correction	+ Difference − Elevation	Adjusted Diff Elev
K-6	5.00	− 2 59 00	0521 1610				
		− 2 59 00					
		− 2 59 00	8159.198	-425.23		-425.68	
I-4	10.00	+ 2 43 30	0475 9611				
		+ 2 43 30					
		+ 2 43 30	4274.181	+203.43		+197.98	
SG-61	10.00	− 3 27 00	0602 8674				
		− 3 27 00					
		− 3 27 00	1457.916	-87.89		-93.34	
SG-63	10.00	+ 4 15 30	0745 3221				
		+ 4 16 00					
		+ 4 15 45	947.633	+70.63		+65.18	

SG-63 to I-4	(2)	141 15 00	I-4 To K-6	(2)	125 44 00
	(4)	282 30 00		(4)	251 28 00
	(6)	63 45 00		(6)	17 12 00
		70 37 30			62 52 00
K-6 To SG-61	(2)	13 26 45	SG 61 To SG63	(2)	79 34 15
	(4)	26 53 30		(4)	159 08 30
	(6)	40 20 00		(6)	238 43 00
		6 43 20			219 47 10

F. B. 1882 PG. 228

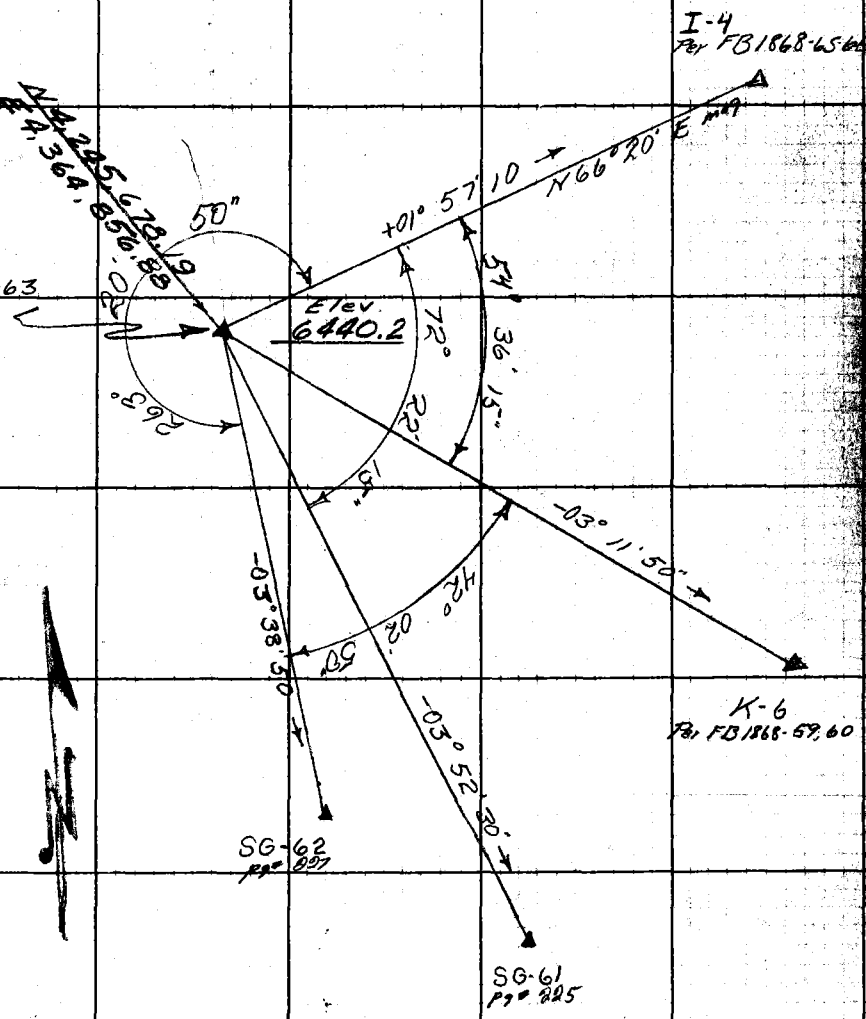
F. B. 1002 PG. 222

Map No.
Office Work
Checked
Date

W. O. [illegible] Tape No. Std. °F
Surveyed by W.S. Cowhard
Notes W.S.C. Date 7/6/55
Indexed C. Johnson

SG-63

Set 3/4 Galv. Pipe & Cap. Stamped SG-63 [illegible] dirt road to Big Horn Mine N. side of wash 4000' S. of Vincent Gap.



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76F3095 247 2-51

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Transit at SG-63 FB 1682 Pg 229 HI 511

Sight On	Rod	+ Vertical − Angle	Horizontal Distance	+ Vertical − Distance	+ Curvature Correction	+ Difference − Elevation	Adjusted Dif. Elev.
I-4	10.00	+ 1° 57' 00"	0340 9560				
		+ 1° 57' 20"					
		+ 1° 57' 10"	4059.633	+ 138.42		+ 133.53	
K-6	5.00	− 3° 12' 00"	0558 6005				
		− 3° 11' 40"					
		− 3° 11' 50"	8838.277	− 493.71		− 493.60	
SG-61	10.00	− 3° 52' 40"	0677 3481				
		− 3° 52' 20"					
		− 3° 52' 30"	2268.691	− 158.67		− 158.56	
SG-62	10.00	− 3° 39' 00"	0637 4216				
		− 3° 38' 40"					
		− 3° 38' 50"	947.633	− 60.40		− 65.29	

Page 230

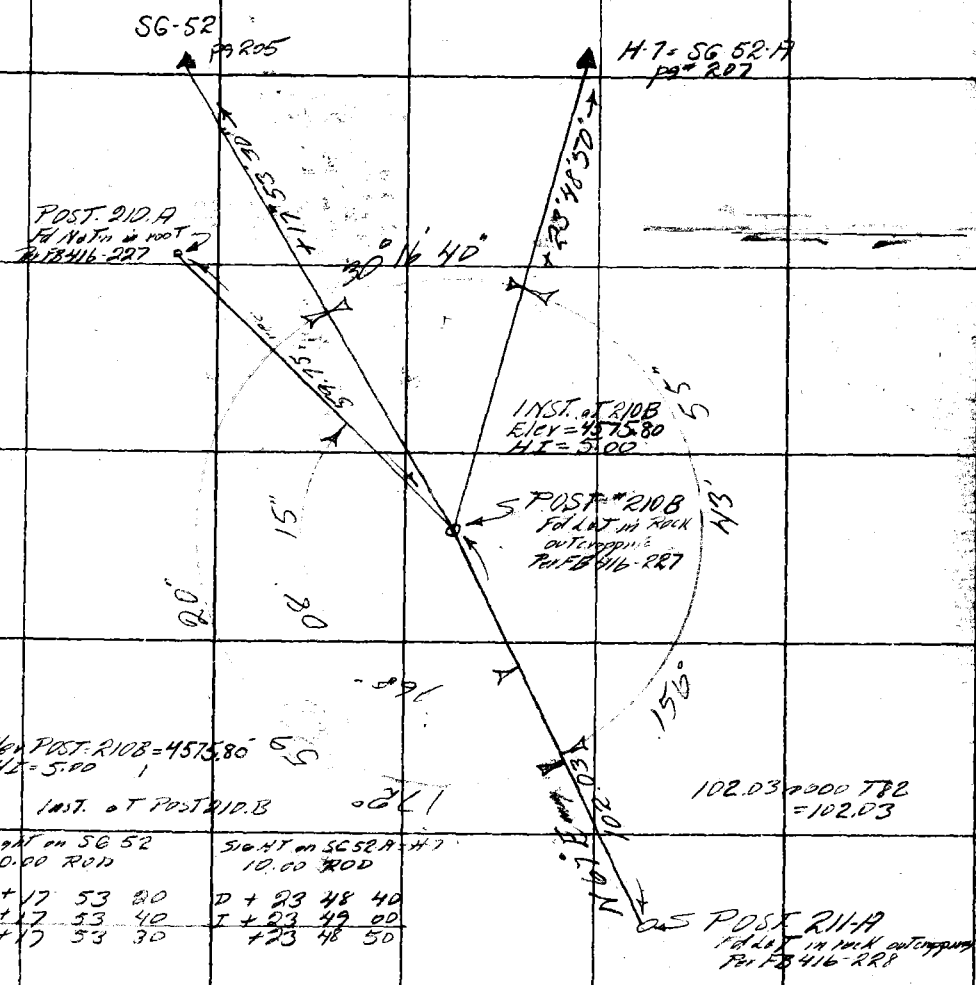
I-4 to K-6	(2)	109 12 30	I-4 to SG-61	(2)	144 44 30
	(4)	218 25 00		(4)	289 29 00
	(6)	327 37 30		(4)	74 13 20
		54 36 15			72 22 15
K-6 to SG-62	(2)	84 05 40	SG-62 to I-4	(2)	166 41 40
	(4)	168 11 20		(4)	333 23 20
	(6)	252 16 50		(4)	140 05 00
		42 02 50			263 20 50.

Map No.	W. O. Tape No.
Office Work	Surveyed by V. CROWE
Checked	Notes W.S.C. Date 7/20/55
Date	Indexed C. Johnson

F. B. 260 Pg. 221

NOTE FB-416

PRAIRIE FORK RD (ABANDONED) & SG 52 & SG 52A = H-7



Sight on SG 52 10.00 ROD	Sight on SG 52A = H-7 10.00 ROD
D + 17 53 20	D + 23 48 40
I + 17 53 40	I + 23 49 00
+ 17 53 30	+ 23 48 50

(2)	336	16	30	(2)	60	33	00	(2)	313	28	20
(4)	312	33	00	(4)	121	06	40	(4)	266	55	50
(6)	288	49	30	(6)	181	40	00	(6)	220	23	30
	168	08	15		30	16	40		156	43	55

(2)	345	59	00				
(4)	331	57	30				
(6)	317	56	00	✓			
	172	59	20	✓			

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76F309S S&E #247. 8-54

F.B. 1212 Pg. 232

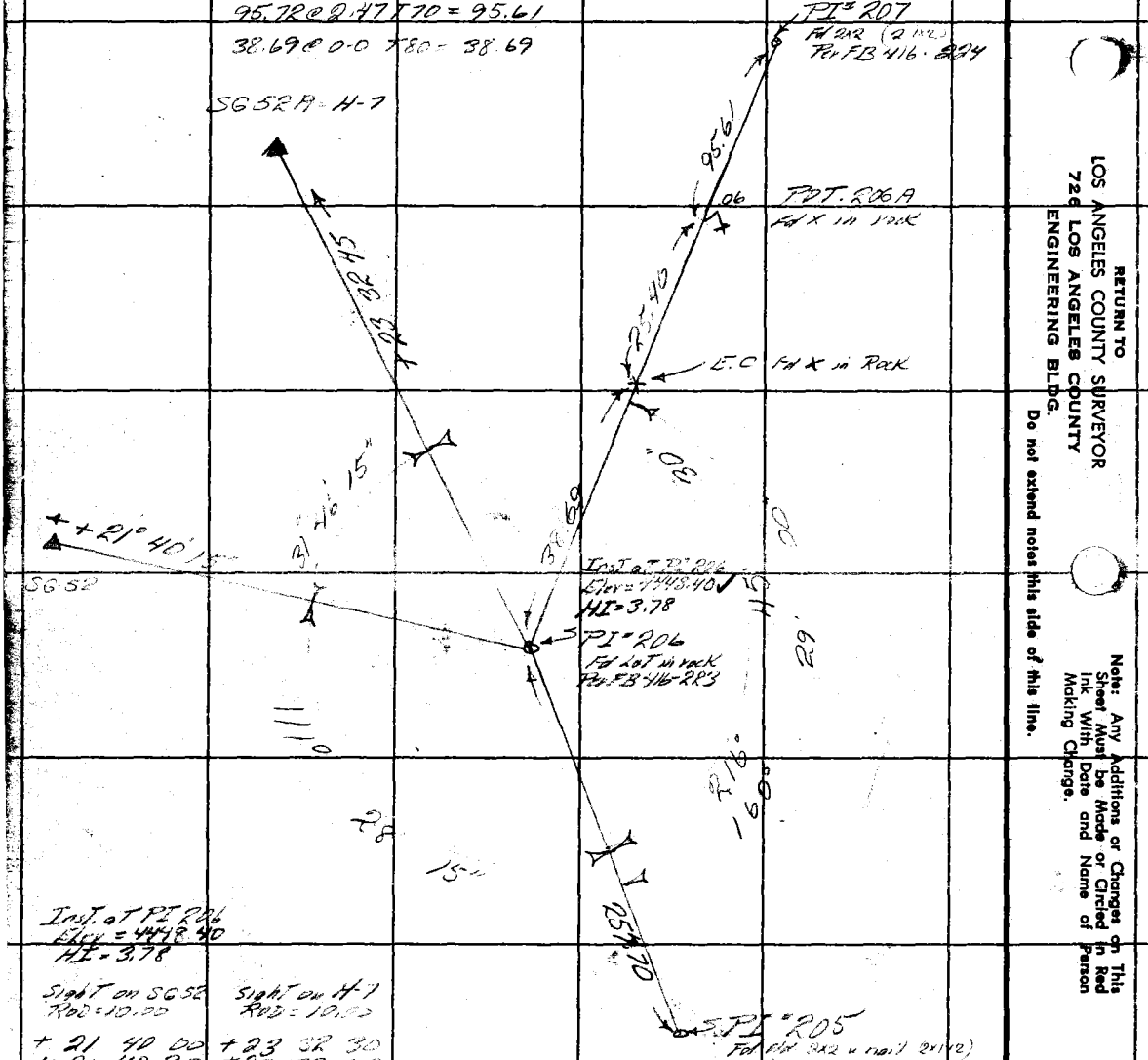
NOTE

FB 416

HORIZONTAL & VERTICAL CONTROL BETWEEN CAMP BONITA - PRAIRIE FORK = SG 52 SG 52A = H-7 Pgs 205-207

95.72 @ 2.47 T 70 = 95.61

38.69 @ 0-0 T 80 = 38.69



Inst. at PI 206
Elev = 1448.40
HI = 3.78

Sight on SG 52 Rod = 10.00	Sight on H-1 Rod = 10.00
+ 21 40 00	+ 23 32 30
+ 21 40 30	+ 23 33 00
+ 21 40 15	+ 23 32 15

2 222 56 30	2 63 32 30	2 320 58 00	2 73 31 00
4 85 53 00	4 127 05 00	4 281 56 00	4 147 02 00
6 308 49 30	6 190 37 30	6 242 54 00	6 220 33 00
111 28 15	31 46 15	160 29 00	216 45 30

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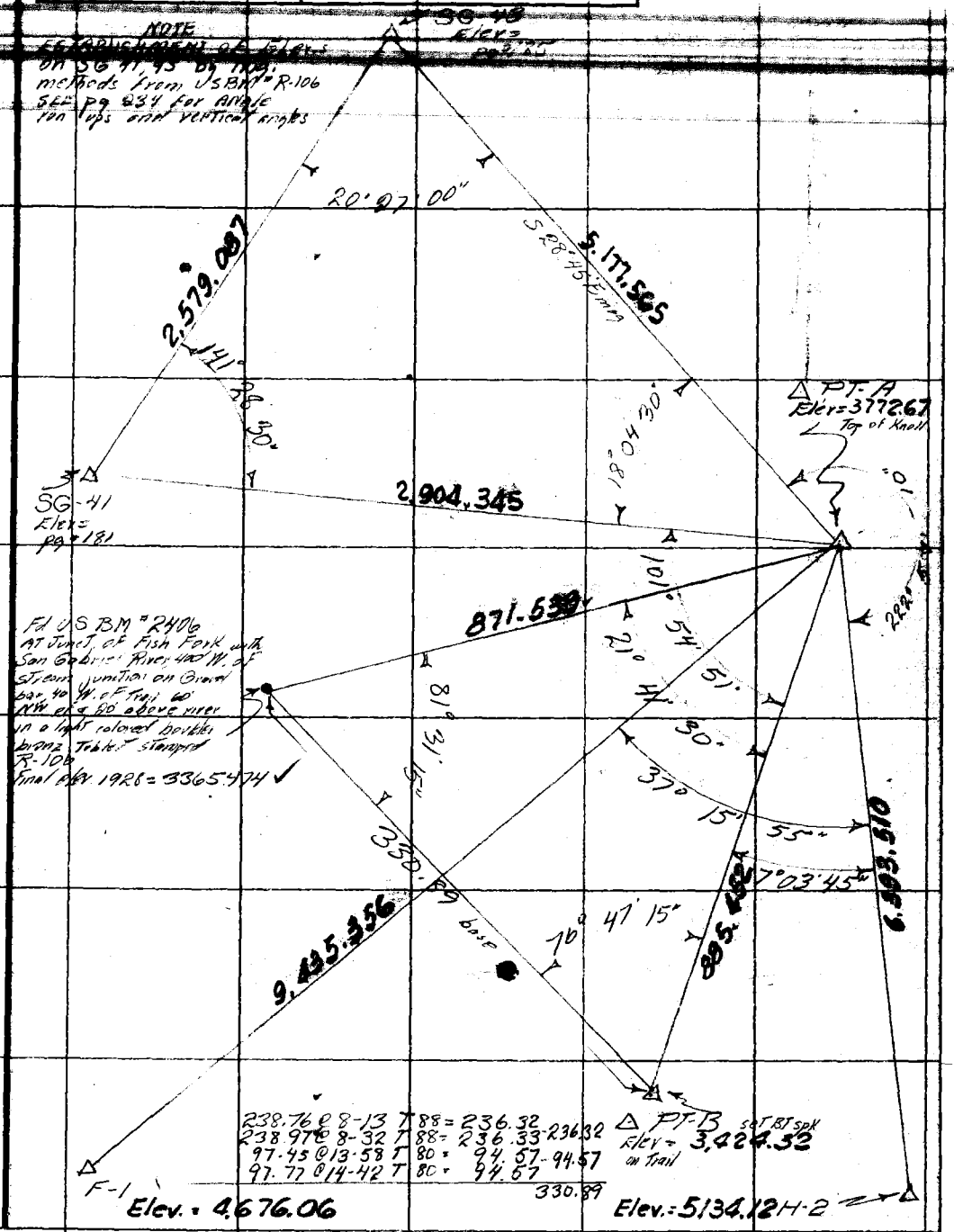
Office Work _____
Checked _____
Date _____

W. O. _____ Tape No. _____ Sta. _____
Surveyed by L.Y. Smith
Notes M.S.C. Date 7/26/55
Indexed C. Johnson



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76F309S S&E #247. P-

F.B. 1882 Pg. 239

ANGLE RUN UPS

Transit at Δ PT. A

(2) 34 07 20	(2) 203 50 00	(2) 36 08 50	(2) 85 54 20	(2) 43 23 10
(4) 68 15 10	(4) 47 39 30	(4) 72 18 00	(4) 171 48 40	(4) 86 46 00
(6) 102 22 30	(6) 261 29 10	(6) 108 27 10	(6) 257 43 10	(6) 130 09 10
17 45 45	101 54 50	18 04 30	222 57 10	21 41 30
				(2) 74 31 50
				(4) 149 03 50
				(6) 223 35 20
				37 15 55

Transit at SG 43 — Transit at SG 41 — Δ PT B

(2) 40 54 00	(2) 282 57 00	(2) 153 34 40
(4) 81 48 00	(4) 205 54 00	(4) 307 09 10
(6) 122 42 00	(6) 128 51 00	(6) 100 43 40
20 27 00	141 28 30	76 47 15

Transit at BM # 2406

(2) 163 02 40	
(4) 325 05 20	
(6) 129 07 40	
81 31 15	

VERTICAL ANGLES

Transit at Δ PT. A — HI = 4.69 — Elev.

To H-2	(1) +12 03 40 (2) +12 03 20 +12 03 30	ROD 10.00
FI	(1) +05 29 20 (2) +05 29 40 +05 29 30	ROD 10.00
Δ PT B	(1) −21 27 20 (2) −21 27 40 −21 27 30	ROD 5.00
USBM 2406	(1) −25 01 20 (2) −25 01 40 −25 01 30	ROD 5.00
SG 41	(1) +19 53 20 (2) +19 52 40 +19 52 50	ROD 10.00
SG 43	(1) +17 43 20 (2) +17 43 40 +17 43 30	ROD 10.00

Transit at SG 43 — HI = 4.69 — Elev.

To Δ PT A	(1) −17° 38 15" (2) −17 37 45 −17 37 30	ROD 10.00
SG 43	(1) −13 06 30 (2) −13 06 00 −13 06 15	ROD 10.00

Transit at SG 41 — HI 3.99 — Elev.

To Δ PT A	(1) −19 41 20 (2) −19 41 00 −19 41 10	ROD 10.00
To SG 43.	(1) +13 19 40 (2) +13 20 00 +13 19 50	ROD 10.00

Transit at Δ PT B — HI 4.57 — Elev.

To Δ PT A ROD = 3.00	(1) −10 21 40 (2) −10 21 20 −10 21 30	

Transit at USBM # 2406 — HI 3.84 — Elev 3365.474

To Δ PT A ROD = 10.00	(1) +25 22 20 (2) +25 22 40 +25 22 30	To Δ PT-B (1) +09 36 20 (2) +09 36 40 +09 36 30	ROD = 1.00

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F. B. 1800 PG. 225

Map No.
Office Work
Checked
Date

W. O. Tape No. Std.
Surveyed by L. V. SMITH
Notes M. WACKER Date 7-55
Indexed C. Johnson 7-28-55

BENCH LEVELS
FM
US 2402
TO
PI 206
(CAMP BONITA - PRAIRIE FORK RD)

L. SMITH
C. CROWE
M. WACKER
R. SWANN
J. FULTON

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F.B. 1612 PG. 236

NOTES RED. _____ JOB NO. [illegible] SURVEY OF San Gregorio Co. Rd.

NOTES CHKD. _____ NOTES BY [illegible] DATE [illegible]

DATE _____ INDEXED C. Johnson DATE _____

F. B. 1882 PG. 237

768420 353 3-51

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	1928 USGS Adj. DESCRIPTION
U.S. 2402	4505.396 ✓				4505.396	Prairie Fork Ranger sta., 2 7[illegible]
	2.663		2.864			of, at Junct. of Vincent Gulch [illegible]
	08.059	- 7.524	- 7.525			Prairie Fork, 100' NE of trail [illegible]
	10.187		10.389			NW edge of trail at foot of large [illegible]
T.P.	4497.872 ✓					top fir tree, in 3X3X1' boulder, [illegible]
	1.913		1.929			tablet stamped "R 105" 1929.
	99.785	- 9.706	- 9.706			Painged HEBM 4505.2
	11.619		11.633			Final elev. 1928 4505.39 ✓
T.P.	88.166 ✓					
	0.306		0.431			
	88.472	- 11.559	- 11.560			
	11.865		11.991			
T.P.	76.607 ✓					
	0.433		0.554			
	77.040	- 10.440	- 10.439			
	10.873		10.993			
T.P.	66.167 ✓					
	0.452		0.603			
	66.619	- 11.363	- 11.361			
	11.815		11.964			
T.P.	54.804 ✓					
	1.002		1.130			
	55.806	- 8.707	- 8.706			
	9.709		9.836			
T.P.	46.097 ✓					
	1.829		2.228			
	47.926	- 0.905	- 0.909			
	2.734		3.137			
T.P.	4445.192 ✓					

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	4445.192 ✓					
	2.901		3.162			
	48.093	-0.440	-0.445			
	3.341		3.607			
T.P.	44.752 ✓					
	9.559		9.866			
	54.371	+9.205	+9.204			
	0.354		0.662			
T.P.	53.957 ✓					
	11.815		12.021			
	65.772	+11.063	+11.063			
	0.752		0.958			
T.P.	65.020 ✓					
	10.181		10.684			
	75.201	+8.397	+8.399			
	1.784		2.285			
T.P.	73.417 ✓					
	10.716		10.829			
	84.133	+9.208	+9.207			
	1.508		1.622			
T.P.	82.625 ✓					
	11.937		11.668			
	94.562	+11.207	+11.211			
	0.730		0.457			
T.P.	93.832 ✓					
	11.594		11.980			
	4505.426	+11.401	+11.399			
	0.193		0.581			T.B.M. Chisled cross on 3X1X2' boulder
T.B.M.	4505.233 ✓					on West edge of trail, and 80'
						South of Pot. 208-B

JOB NO. 0907.11 SURVEY OF SAN GABRIEL CN. RD. NOTES RED. _____
SURVEY BY L. V. SMITH DATE _____
NOTES BY M. E. WACKER DATE 7-25-1955 NOTES CHKD. _____
INDEXED R. O. Johnson DATE _____

F.B. 1885 PG. 238

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.B.M.	4505.233 ✓					Chisled cross on 3X1X2' boulder
	12.318		12.022			on West edge of trail, and 80'
	17.551	+10.728	+10.728			south of POT 208-B
	1.590		1.294			
T.P.	15.961 ✓					
	8.696		9.769			
	24.657	+1.503	+1.503			
	7.193		8.266			
Pot 208-B	4517.464 ✓					Found lead & tack in 5X4X2' boulder
	10.744		11.098			35' east of trail, 10' east of 16"
	28.208	+10.590	+10.591			Pine tree.
	0.154		0.507			F.B. 416 Pg. 226
T.P.	28.054 ✓					
	10.242		10.838			
	38.296	+10.046	+10.046			
	0.196		0.792			
T.P.	38.100 ✓					
	11.398		11.932			
	49.498	+10.467	+10.466			
	0.931		1.466			
T.P.	48.567 ✓					
	11.021		11.272			
	59.588	+10.848	+10.849			
	0.173		0.423			
T.P.	59.415 ✓					
	8.727		8.412			
	68.142	+7.484	+7.485			
	1.243		0.927			
T.P.	4566.899 ✓					

NOTES RED. _____ JOB NO. [illegible] SURVEY OF San Gabriel Cn Rd

NOTES CHKD. _____ NOTES BY [illegible] DATE [illegible]

DATE _____ INDEXED L. C. Johnson DATE _____

F.B. 1882 PG. 239

76S420 353 3-51

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	4566.899 ✓					
	9.635		9.433			
	76.534	+ 8.905	+ 8.909			
	0.730		0.525			
Post 210-B	4575.804 ✓					Found lead and tack in 5X6X2' boulder
	0.313		0.807	0.164		on rocky outcropping, above
	76.117	- 8.249	- 8.263	- 8.259		intersection of Mine Gulch and
	8.562		9.070	8.423		Prairie Fork
T.P.	67.555 ✓					Per. F.B. 416 Pg. 227
	0.330		0.384			
	67.885	-10.650	-10.651			
	10.980		11.035			
T.P.	56.905 ✓					
	1.960		2.282			
	58.865	- 8.789	- 8.790			
	10.749		11.072			
T.P.	48.116 ✓					
	1.733		1.660			
	49.849	-10.019	-10.019			
	11.752		11.679			
T.P.	38.097 ✓					
	0872		0.896			
	38.969	- 5.558	- 5.556			
	6.430		6.452			
T.P.	32.539 ✓					
	0.352		0.577			
	32.891	-11.330	-11.325			
	11.682		11.902			
T.P.	4521.209 ✓					

JOB NO 0907.11 SURVEY OF San Gabriel Cn. Rd. NOTES RED.
SURVEY BY L. Y. SMITH DATE
NOTES BY M. E. WACKER DATE 7-25-1955 NOTES CHKD.
INDEXED R. A. Johnson DATE DATE

F.B. 1882 PG. 240

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NOTES RED. JOB NO. 10447 SURVEY OF Sur. Geren Ck. Rd.
NOTES CHKD. DATE NOTES BY DATE
DATE INDEXED DATE
F.B. 1882 PG. 22

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	4521.209 ✓					
	3.903		4.425			
	25.112	- 3.738	- 3.743			
	7.641		8.168			
Pot 208-B	4517.471 ✓					Found Lead and tack in 2 inch boulder; 35' east of trail, 4' east of 46" Pine tree. F.B. 416 Pg. 226
	2.678		2.670			
	20.149	- 8.082	- 8.085			
	10.760		10.753			
T.P.	09.389 ✓					
	1.508		1.456			
	10.897	- 4.155	- 4.157			
	5.663		5.613			
T.B.M.	4505.234 ✓					Chisled Cross on 3'x2' boulder on West edge of trail, and 80' East of POT 208-B
	9.541		9.760			
	14.775	+ 2.029	+ 2.028			
	7.512		7.732			
T.P.	07.263 ✓					
	5.711		5.874			
	12.974	+ 1.361	+ 1.361			
	4.350		4.513			
T.P.	08.624 ✓					
	3.711		3.843			
	12.335	+ 0.706	+ 0.703			
	3.005		3.140			
T.P.	09.330 ✓					
	1.230		1.468			
	10.560	- 9.908	- 9.903			
	11.138		11.371			
T.P.	4499.422 ✓					

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JOB NO. 0902-11 SURVEY OF San Gabriel Cyn. Rd. NOTES RED. DATE
SURVEY BY L. V. Smith NOTES CHKD. DATE
NOTES BY M. E. Wacker DATE 7-25-1956
INDEXED C. Johnson DATE
F.B. 1332 PG. 212

Do not extend notes this side of this line

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	4499.422 ✓					
	1.097		1.282			
	4500.519	- 9.475	- 9.471			
	10.572		10.753			
T.P.	4489.947 ✓					
	1.362		1.529			
	91.309	- 9.216	- 9.216			
	10.578		10.745			
T.P.	80.731 ✓					
	0.262		0.809			
	80.993	- 10.987	- 10.986			
	11.249		11.795			
T.P.	69.744 ✓					
	2.195		2.344			
	71.939	- 8.611	- 8.611			
	10.806		10.955			
T.P.	61.133 ✓					
	0.435		0.920			
	61.568	- 9.595	- 9.595			
	10.030		10.515			
T.P.	51.538 ✓					
	2.198		2.354			
	53.736	- 3.134	- 3.132			
	5.332		5.486			
P.I. 206	4448.404 ✓					Found Lead and tack in 18"X2"X2" rock; 80' West of trail; 40' North and West of 14"X14"X16" boulder; 65' South of two 28" Pine Trees. P.I 206 Ref. F.B. 1116 P. 223
	9.654					
	58.058	+ 8.354				
	1.300					
T.P.	4456.758 ✓					

766420 353 3-51

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LOS ANGELES COUNTY SURVEYOR
725 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	4456.758 ✓					
	9.291					
	66.049	+ 8.216				
	1.075					
T.P.	64.974 ✓					
	10.684					
	75.658	+ 10.148				
	0.536					
T.P.	75.122 ✓					
	11.966					
	87.088	+ 10.793				
	1.173					
T.P.	85.915 ✓					
	12.169					
	98.084	+ 11.065				
	1.104					
T.P.	96.980 ✓					
	10.350					
	4507.330	+ 9.497				
	0.853					
T.P.	06.477 ✓					
	9.621					
	16.098	+ 2.845				
	6.776					
T.P.	09.322 ✓					
	2.965					
	12.287	+ 1.246				
	4.211					
T.P.	08.076 ✓					

NOTES RED. _____ JOB NO. 00041 SURVEY OF San Gabriel Av. Rd.

NOTES CHKD. _____ NOTES BY M.L. Wacker DATE [illegible]

DATE _____ INDEXED L. C. Johnson DATE _____

F.B. 1882 PG. 243

76S420 353 3-51

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725 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	4508.076 ✓					
	4.342					
	12.418	- 2.631 ✓				
	6.973					
T.P.	05.445 ✓					
	9.392					
	14.837	- ~~1~~.207 .419				
	9.599					
T.B.M.	05.238 ✓					Chisled cross on 3X1X2' boulder on
	0.938	10.029				West edge of trail, and 80 ft south
	06.176	- 9.929				of Pot 208-B
	10.967					
T.P.	4495.209 ✓					
	1.135					
	96.344	- 9.645				
	10.780					
T.P.	85.564 ✓					
	4.003					
	89.567	- 7.641				
	11.644					
T.P.	77.923 ✓					
	0.985					
	78.908	- 7.841				
	8.826					
T.P.	70.082 ✓					
	0.270					
	70.352	- 8.161				
	8.431					
T.P.	61.921 ✓					

JOB NO. 0807.11 SURVEY OF SAN GABRIEL CN. RD. NOTES RED.
SURVEY BY L. V. SMITH DATE
NOTES BY M. E. WACKER DATE 7-25-55 NOTES CHKD.
INDEXED C. Johnson DATE DATE

F. B. 244

NOTES RED. _____ JOB NO. [illegible] SURVEY OF San Gabriel Cn. Rd.

NOTES CHKD. _____ NOTES BY M. E. Wacker DATE [illegible]

DATE _____ INDEXED R. C. Johnson DATE _____

F. B. 1882 PG. 245

768420 353 3-51

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725 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	4461.921 ✓					
	0.530					
	62.451	- 10.445				
	10.975					
T.P.	51.476 ✓					
	3.061					
	54.537	- 6.727				
	9.788					
T.P.	44.749 ✓					
	3.355					
	48.104	- 1.148				
	4.503					
T.P.	43.601 ✓					
	6.944					
	50.545	+ 5.381				
	1.563					
T.P.	48.982 ✓					
	9.282					
	58.264	+ 8.642				
	0.640					
T.P.	57.624 ✓					
	10.168					
	67.792	+ 9.340				
	0.828					
T.P.	66.964 ✓					
	11.295					
	78.259	+ 9.265				
	2.030					
T.P.	4476.229 ✓					

768420 353 3-51

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Do not extend notes this side of this line

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	4476.229					
	11.579					
	87.808	+ 11.083				
	0.496					
T.P.	87.312 ✓					
	11.427					
	98.739	+10.472				
	0.955					
T.P.	97.784 ✓					
	7.916					
	4505.700					
	0.290	+ 7.626				
U.S. 2402	4505.410 ✓					Prairie Fork Ranger sta., 2.7 mi. W of, at Junct. of Vincent Gulch and Prairie Fork 150' NE of trail forks, NW edge of trail at foot of large broken top fir tree, in 3x3x1 boulder. bronze tablet stamped "R 105 1929" Painged U.S.B.M. 4505.2 Final elev. 1928 4505.396

JOB NO. 0907.11 SURVEY OF SAN GABRIEL CN. RD. NOTES RED.
SURVEY BY L. V. SMITH DATE
NOTES BY M. E. WACKER DATE 7-25-55 NOTES CHKD.
INDEXED C. Johnson DATE DATE

F. B. 4882 PG. 246

Map No.	JN 0907.11 Tape 103 Std 87 °F
Office Work	Surveyed by L.V. SMITH
Checked	Notes L.V.S Date 5-57
Date	Indexed A. O. Johnson 5-20-57

SAN GABRIEL CANYON ROAD

J.N. 0907.11

CONTROL FOR TOPOGRAPHY AT SITE OF PROPOSED ROAD CAMP 1/2 S.ELY. OF VINCENT GAP

PARTY

L.V. SMITH
C.V. CROWE
V.L. HUCKABY
R.H. GILFOY

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700 LOS ANGELES COUNTY ENGINEERING BLDG.

76F309S S&E #247 1-56

F. B. 1882 Pg. 248

B.M. # 143
FD. 3/4" I.P.
CONC. PLUG &
COP. TK. PER
F.B. 1882-49

96.87 @ LEV. T=66°
= 96.86 ✓

96.86 ✓

93°

16.

96.86

12.58

213.41

N 69°46'12" E

131.18

P-11
1X2 ¢ N.
N 4,246,969.170 ✓
E 4,364,172.198
231.72 @ 1°38' = 231.63
T=56° = 231.59 ✓

231.59

P-10
1X2 ¢ N.
N 4,246,953.552 ✓
E 4,364,180.212 ✓

P-9
1X2 ¢ N.
N 4,247,047.347 ✓
E 4,362,382.757 ✓

12.58 @ LEV. T=68° = 12.58 ✓

2) 186° 33' 00"
4) 13 06 30
6) 199 39 45 ✓

239.22 @ 26°51 = 213.42
T=76° = 213.41 ✓

CONT. LEFT
PG 249

B.M. # 144
FD 1X2 ¢ N.
PER. F.B. 1882
-49
N 4,246,845.622 ✓
E 4,364,226.657 ✓

72.34

73.36 @ 9°30' = 72.35
T=64° = 72.34 ✓

P-1
1X2 ¢ N.
N 4,246,779.236
E 4,364,255.314

N 25°30'28" W

204.92

136.12 @ 2°08' = 136.08
69.11 @ 4°16 = 68.92
204.95
T=62° = 204.92 ✓

2) 165° 14' 30"
4) 330 28 30
6) 135 43 00
82° 37' 10"

82°

37.

CONT. LEFT
PG. 249

226.94 @ 19°10 = 214.36
T=60° = 214.32 ✓

214.32 ✓

117.93

P-2
1X2 ¢ N
N 4,246,591.373 ✓
E 4,364,337.261 ✓

P-3
1X2 ¢ N
N 4,246,701.395
E 4,364,521.172

86.86 @ 2°48 = 86.76
T=60° = 86.75 ✓

86.75

B.M. # 145
FD. 3/4" I.P. CONC.
PLUG & COP. TK. PER
F.B. 1882-50

N 4,246,511.823
E 4,364,371.853

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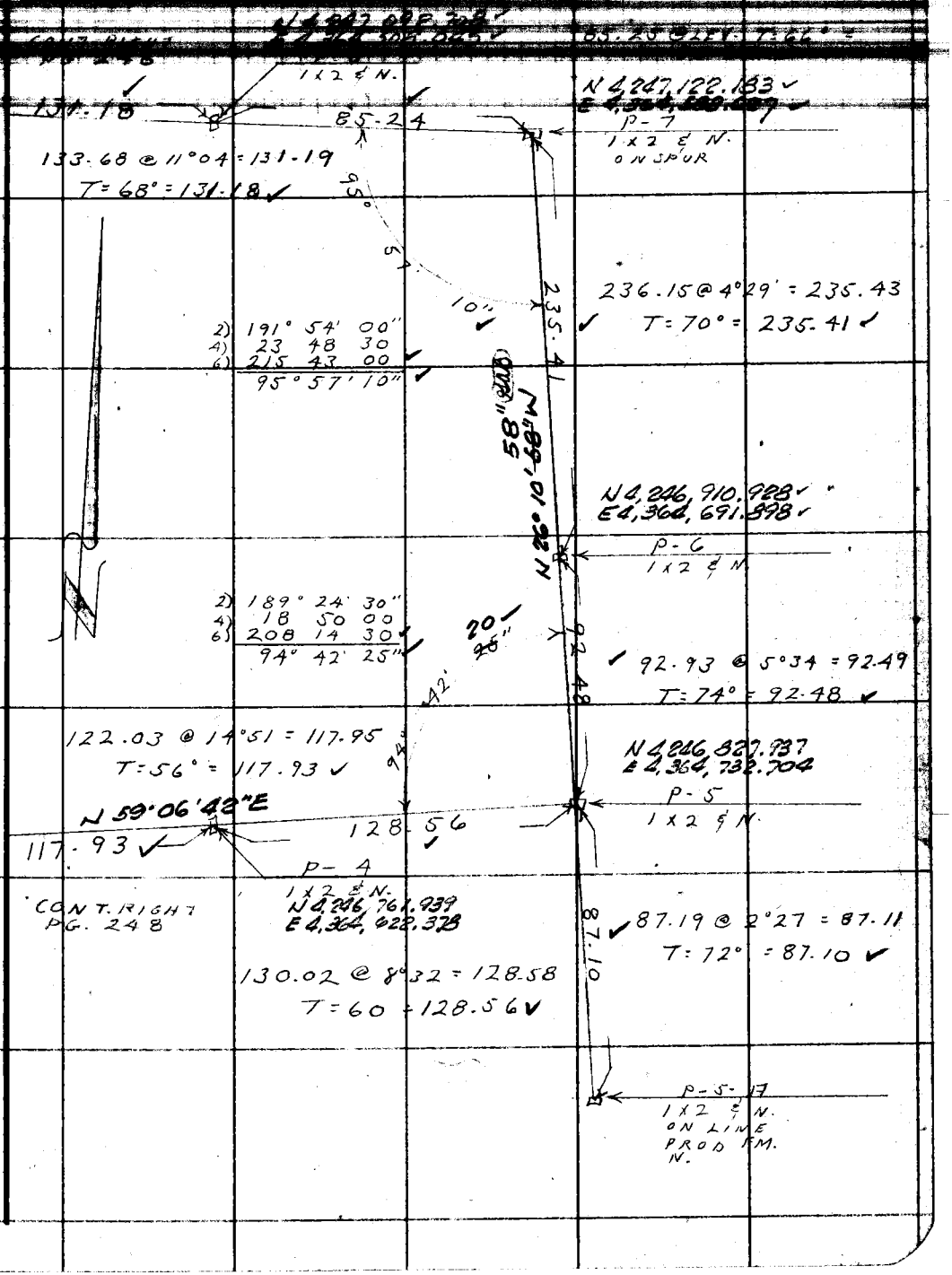
Map No.	JN 0907.N Tape 103 Std 84 °F
Office Work	Surveyed by L. V. SMITH
Checked	Notes L.V.S. Date 5-57
Date	Indexed



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700 Los Angeles County Engineering Bldg.

76F309S S&E #247 1-56

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F. B. 1887 Pg. 250

Profile No. Notes Red. Date Plotted Date Job No. 0907-11 Division No. F.B. 1882 Pg. 2-51

No. Date Date Map No. Standard Johnson Date

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PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

SAN GABRIEL CANYON ROAD

J.N. 0907.11

BENCH LEVELS FOR TOPOGRAPHY CONTROL AT SITE OF PROPOSED ROAD CAMP, ½ MILE S.ELY. OF VINCENT GAP. FROM B.P. #145 TO

STATION	B.S.	H.I.	F.S.	ELEV.

PARTY

L.V. SMITH
C.V. CROWE
V.L. HOCKABY
R.H. GILFOY

76L298 307 10-51

76L298 307 10-51

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ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

F.B. 1882 PG. 252 Job No. 8292.11 Division No. Notes Red Platted
Survey of San Gabriel Cr. Area Date Date
Survey by L.V. Sauzu Notes L.V.S. Notes Chkd Checked
Indexed K. C. Johnson Date Date Date
Profile No. X-Sec. No.

STATION	B. S.	H. I.	F. S.	ELEV.		
B.P. 145	5.30	6468.40 ✓		6463.10 ✓	B.P. 145 ELEV. = 6463.10 3/4" I.P. CONC. PLUG & COP. TK. 2" UP F.B. 1882-50	
P-2	1.50	6467.19 ✓	2.71	6465.69 ✓	1 x 2 & N	
T.P.	0.74	6456.09 ✓	11.84	6455.35 ✓	1 x 2	
T.P.	0.30	6444.35 ✓	12.04	6444.05 ✓	1 x 1	
T.P.	0.19	6432.84 ✓	11.70	6432.65 ✓	1 x 1	
T.P.	0.29	6421.01 ✓	12.12	6420.72 ✓	1 x 1	
T.P.	0.28	6409.47 ✓	11.82	6409.19 ✓	1 x 1	
T.P.	1.49	6398.72 ✓	12.24	6397.23 ✓	1 x 1	
P-3	1.12	6390.98 ✓	8.86	6389.86 ✓	1 x 2 & N.	
T.P.	0.13	6378.98 ✓	12.13	6378.85 ✓	1 x 1	
T.P.	0.57	6367.64 ✓	11.91	6367.07 ✓	1 x 1	
P-4	0.39	6359.81 ✓	8.22	6359.42 ✓	1 x 2 & N.	
T.P.	0.32	6351.58 ✓	8.55	6351.26 ✓	1 x 1	
P-5-A	2.94	6348.01 ✓	6.51	6345.07 ✓	1 x 2 & N.	
P-5	1.53	6340.22 ✓	9.32	6338.69 ✓	1 x 2 & N.	
P-6	4.46	6334.91 ✓	9.77	6330.45 ✓	1 x 2 & N.	
T.P.	12.18	6346.58 ✓	0.51	6334.40 ✓	1 x 1	
T.P.	5.65	6351.09 ✓	1.14	6345.44 ✓	1 x 1	
P-7	4.46	6351.21 ✓	4.34	6346.75 ✓	1 x 2 & N.	
P-8	11.92	6359.40 ✓	3.73	6347.48 ✓	1 x 2 & N.	

76L298 307 10-51

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
		6359 40 ✓				
T. P.	12 08	6371 18 ✓	0 30	6359 10 ✓		
T. P.	9 78	6379 10 ✓	1 86	6369 32 ✓		
P-9	11 68	6385 79 ✓	4 99	6374 11 ✓	1 x 2 & N	
T. P.	12 36	6397 79 ✓	0 36	6385 43 ✓		
T. P.	11 73	6409 05 ✓	0 47	6397 32 ✓		
T. P.	12 13	6420 72 ✓	0 46	6408 59 ✓		
T. P.	11 71	6432 30 ✓	0 13	6420 59 ✓		
	11 66	6443 64 ✓	0 32	6431 98 ✓		
	11 66	6454 87 ✓	0 43	6443 21 ✓		
	12 07	6466 59 ✓	0 35	6454 52 ✓		
	11 98	6477 92 ✓	0 65	6465 94 ✓		
	8 06	6485 86 ✓	0 12	6477 80 ✓		
B.P. 143			1 20	6484 66 ✓	B.P. 143 ELEV = 6484.6 ✓ 3/4" I.P. CONC. PLUG & COP. TK FB. 1882-9	

Profile Notes Red ____ Plotted ____ Job No. 0907.11 Division No. ____ F.B. 1882 PG. 253

No. ____ Date ____ Date ____ Survey of ____

Notes Chkd ____ Checked ____ Survey by ____

No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

B.B. 1882 PG 254 Job No. Division No. Notes Red Plotted Profile

Survey of Date Date No.

Survey by Notes Notes Chkd Checked X-Sec.

Indexed Date Date Date No.

STATION	B. S.	H. I.	F. S.	ELEV.

76L298 307 10-51

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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Map No. _____
Office Work _____
Checked _____
Date _____

JN _____ Tape _____ Std _____ F
Surveyed by _____
Notes _____ Date _____
Indexed _____

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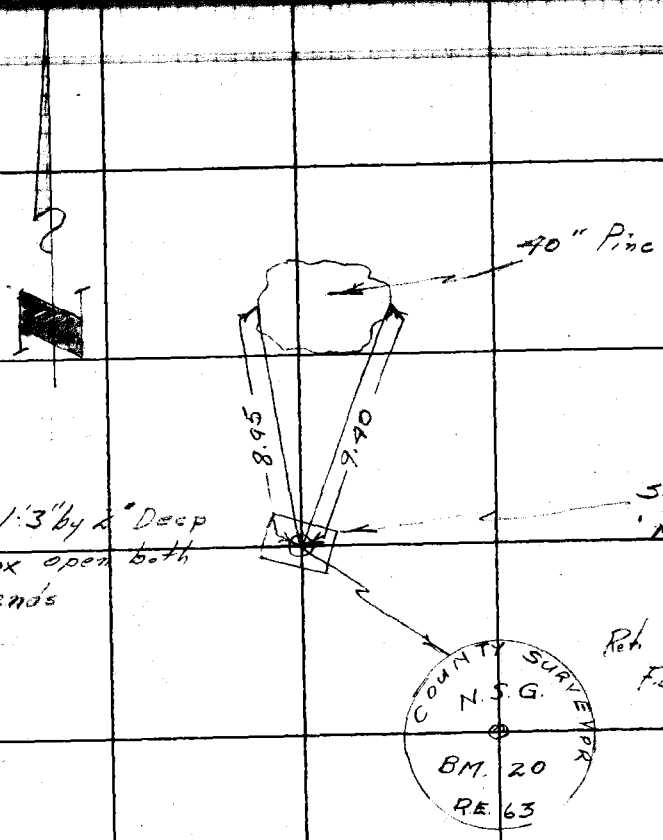
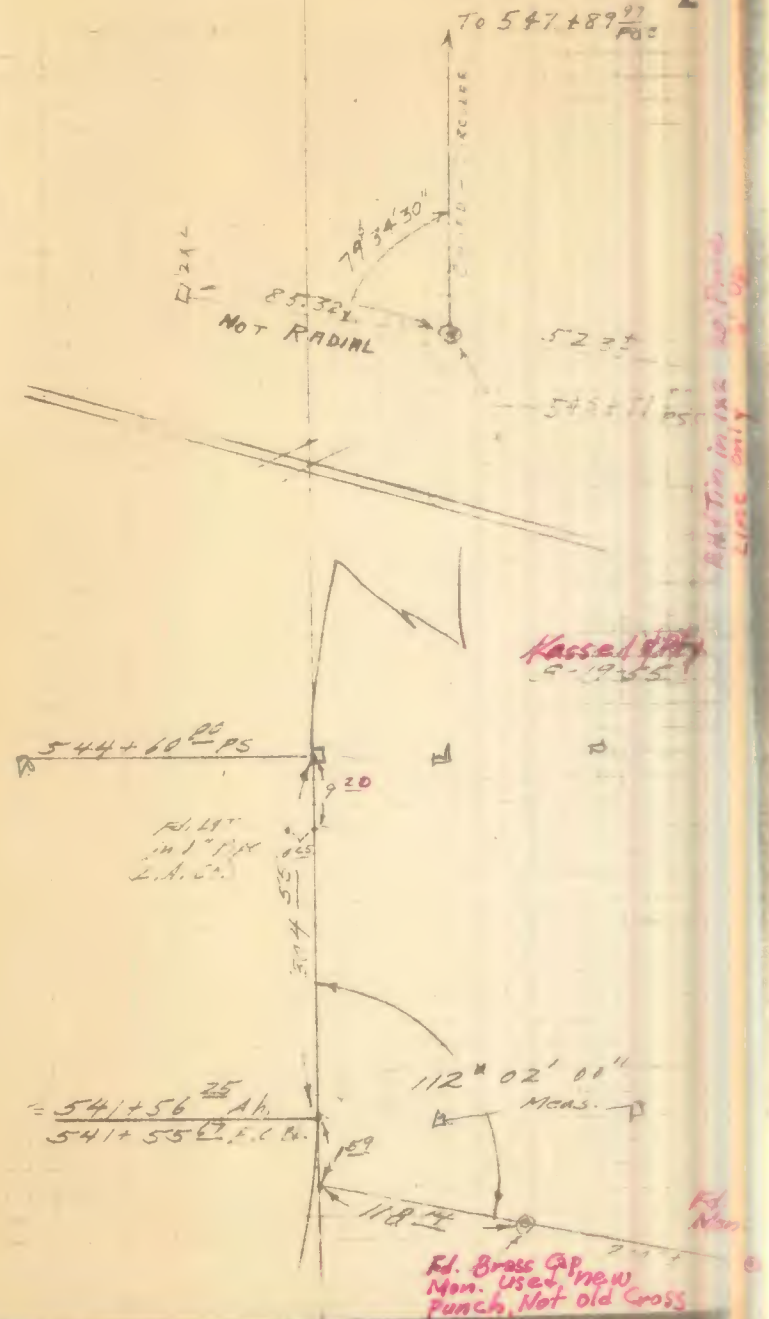
700 Los Angeles County Engineering Bldg.

76F3DS SAE #247 1-56



F. B. _____ Pg. _____

	L	R	
546+00		1°20'47"	
545+71.80 P.S.C.		1°46'	Δ = 56°44'
			T_s = 377.9
			Δ_c 46°08'
545+50		1°08'	R_c = 600
			L_s = 483.11
			Δ 5°18'
545+00		0°13'	L_c = 111.0'
			Ω = 8.603
			C_s = 110.96
544+60.80 PS			
+50		N 76°34' E	
544+00			



Vincent Gulch Divide