Notes Ck'd by _____ Survey of _____ F.B. 3407 Pg. _____

Surveyed by: _____
Notes _____ Date _____
Indexed _____

Job	Description
	W.W. DIST. #29 J.N. 2215.15
Const.	Construction staking Big Rock Dr. Area
X-Sec.	Cross-section @ Upper Big Rock Pump Sta.
	LAS TUNAS BEACH DEV. J.N. 8762.02
Vert. & Horiz.	Vertical & Horiz. Contr. for P.T. Sht. J-19:1,2 1"=20'
	LAS TUNAS BEACH DEVELOPMENT J.N. 6845.01
Horiz.	Control Survey for Borrow Site at Dockweiler Beach.
X-Sec.	of Borrow Site before excavation.

microfilmed. June 85

over

F.B. 3407 Pg.

LAS TUNAS BEACH IMP. 8762.02
International Airport Borrow Site

127-129	Vert. Contr.	Vert. control for above - P.T. Shts. J-20:1,2

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Notes Ck'd by	Survey of W.W. DIST #29
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Checked	Notes R.C.D. Date 4-17-67
Date	Indexed C. J. GALLI SEP 15 '67

F. B. 3407 Pg. 7

BIG ROCK DRIVE AREA

JN 2215.15

APRIL 17 1967

BIG ROCK DRIVE
ROCKPORT WAY
INLAND WAY
SEABOARD ROAD
ROCKPOINT ROAD
PINNACLE WAY
LITTLE ROCK WAY
COOL OAK WAY
ROCKCROFT DRIVE
McANANY WAY

REF.
F.B. 2980-5-261

PARTY
R.C. DALE
J.P. McCALL
B.B. JACKSON
L.L. FISHER

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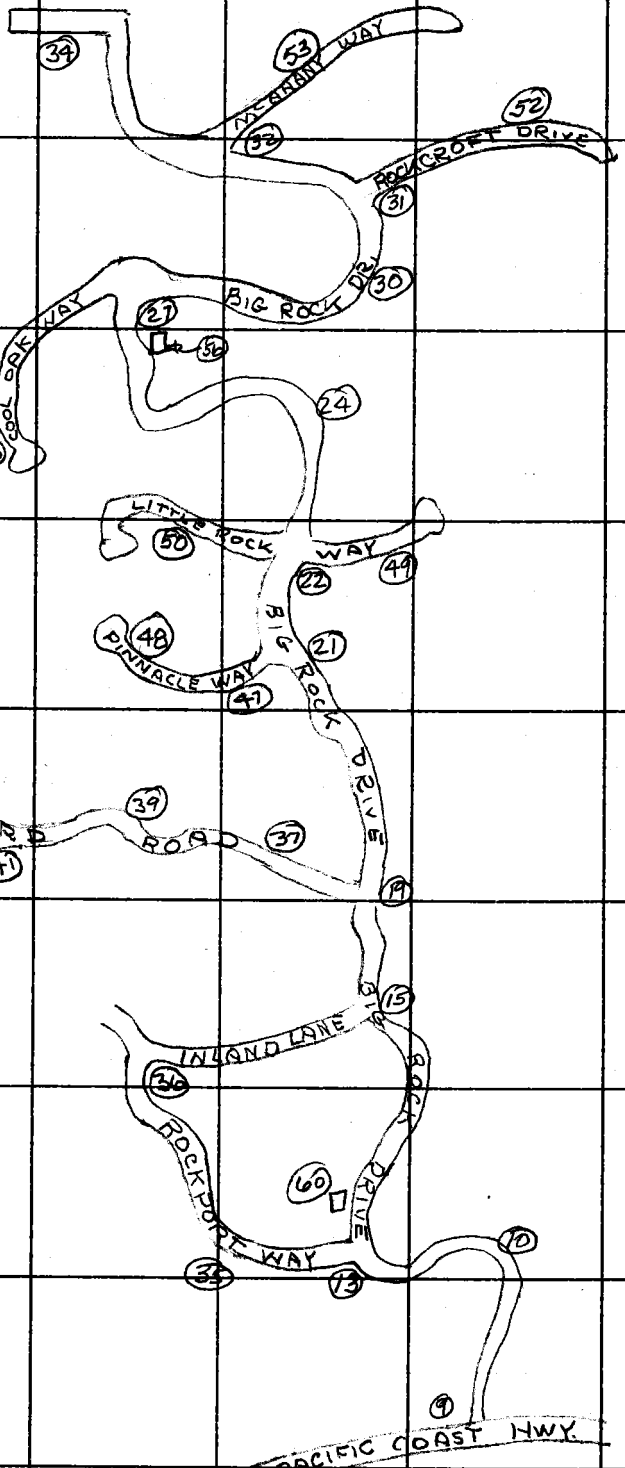
F. B. 3407 PG. 8

INDEX



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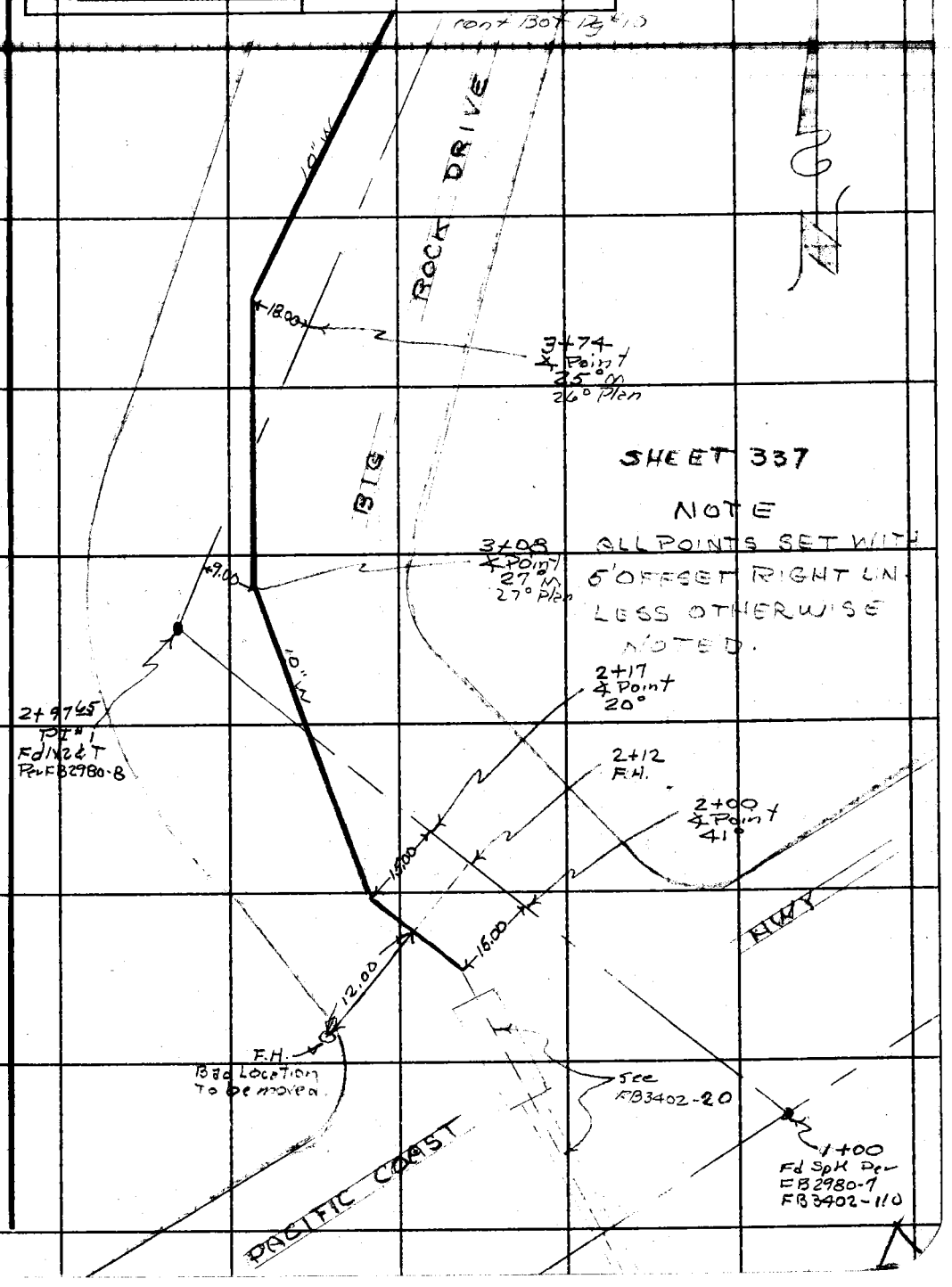
Checked	Notes R.C.D. Date 4-17-67	
Date	Indexed C. J. GALLI	



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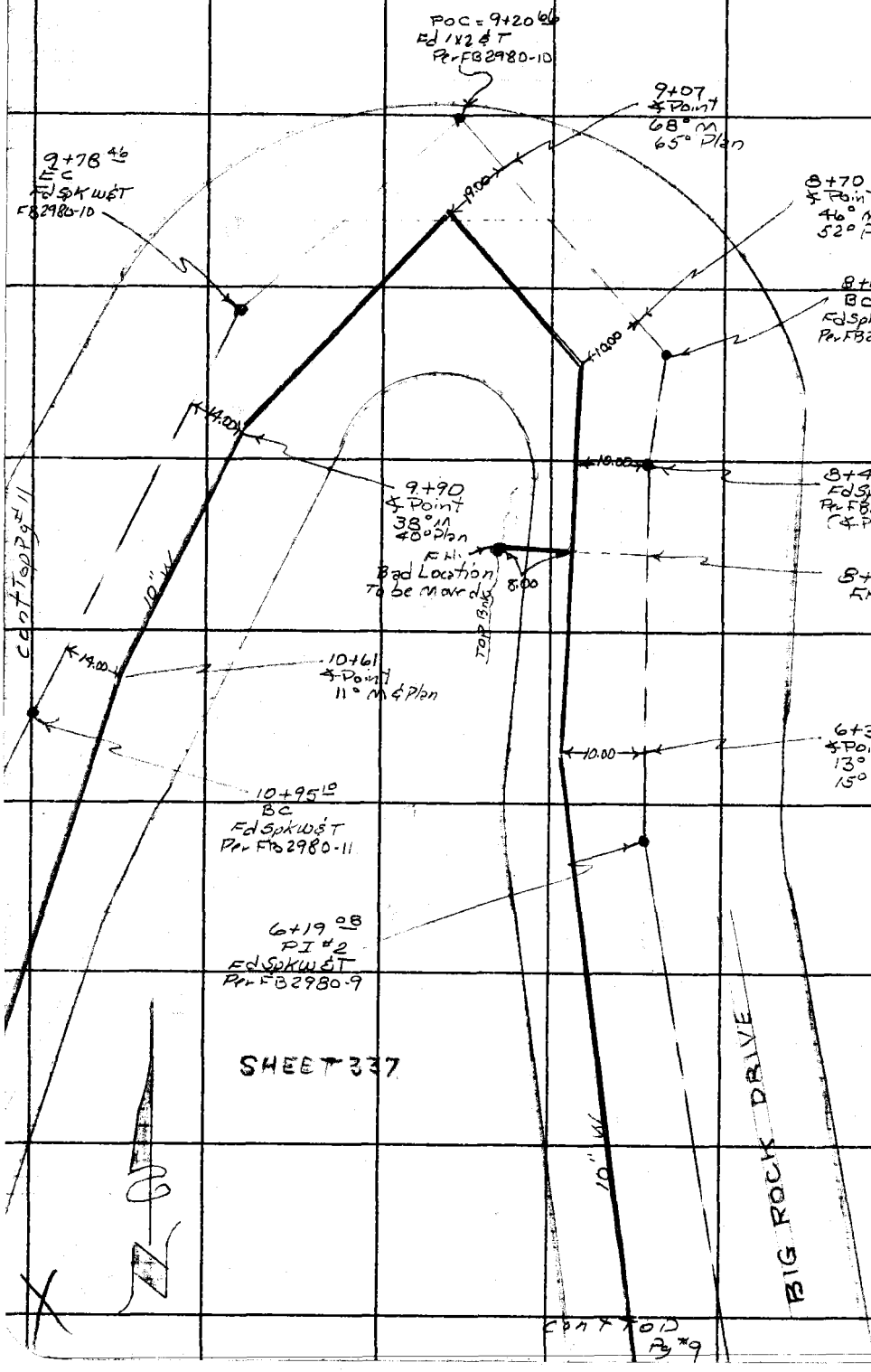
F. B. 3407 PG. 10



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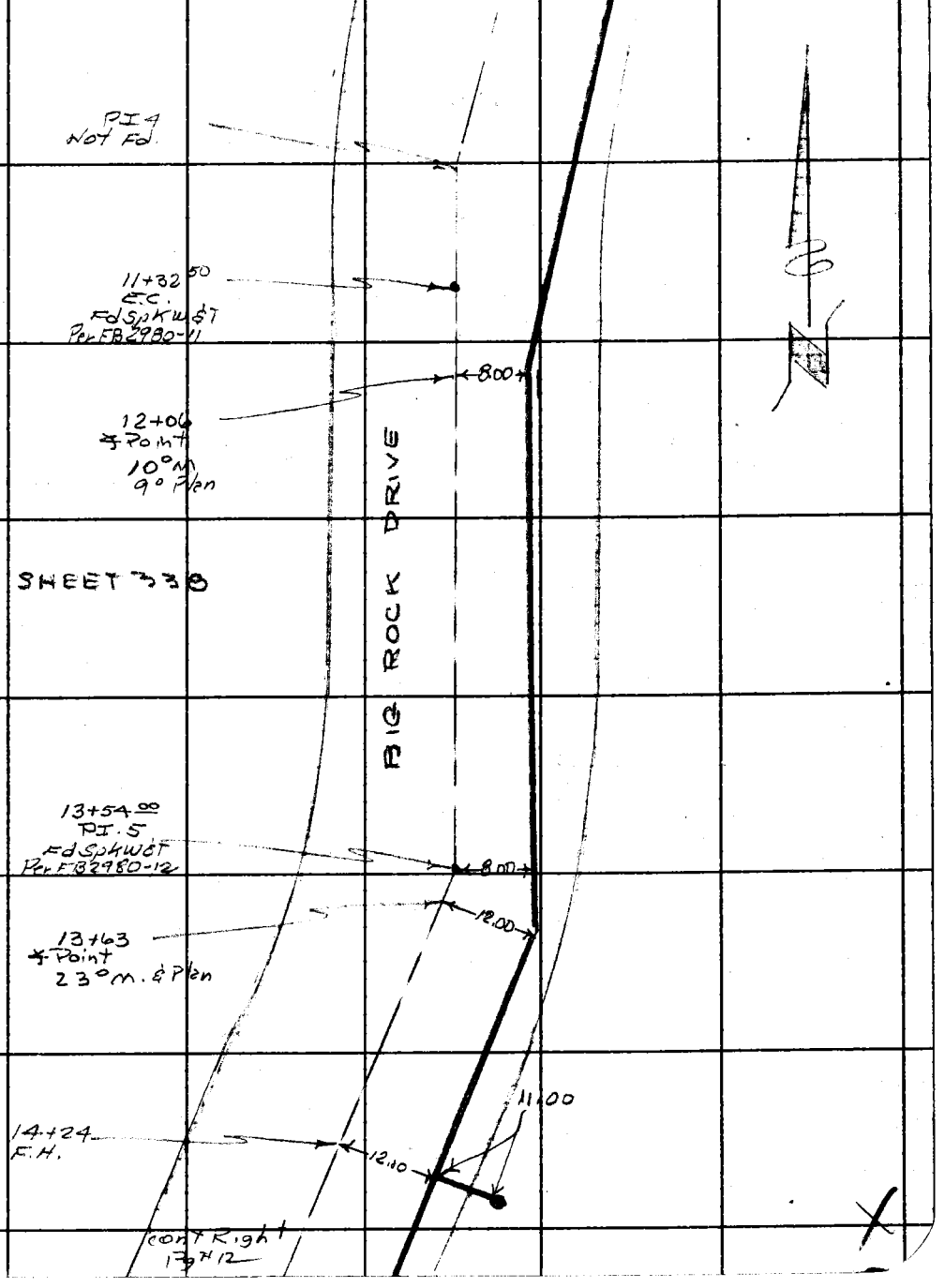
Office Work	Surveyed by R.C. Dale
Checked	Notes R.C.D. Date 4-17-67
Date	Indexed C. J. GALLI

F. B. 7407 PG. 11

cont 2-11 Pg #10



cont Right Pg #12

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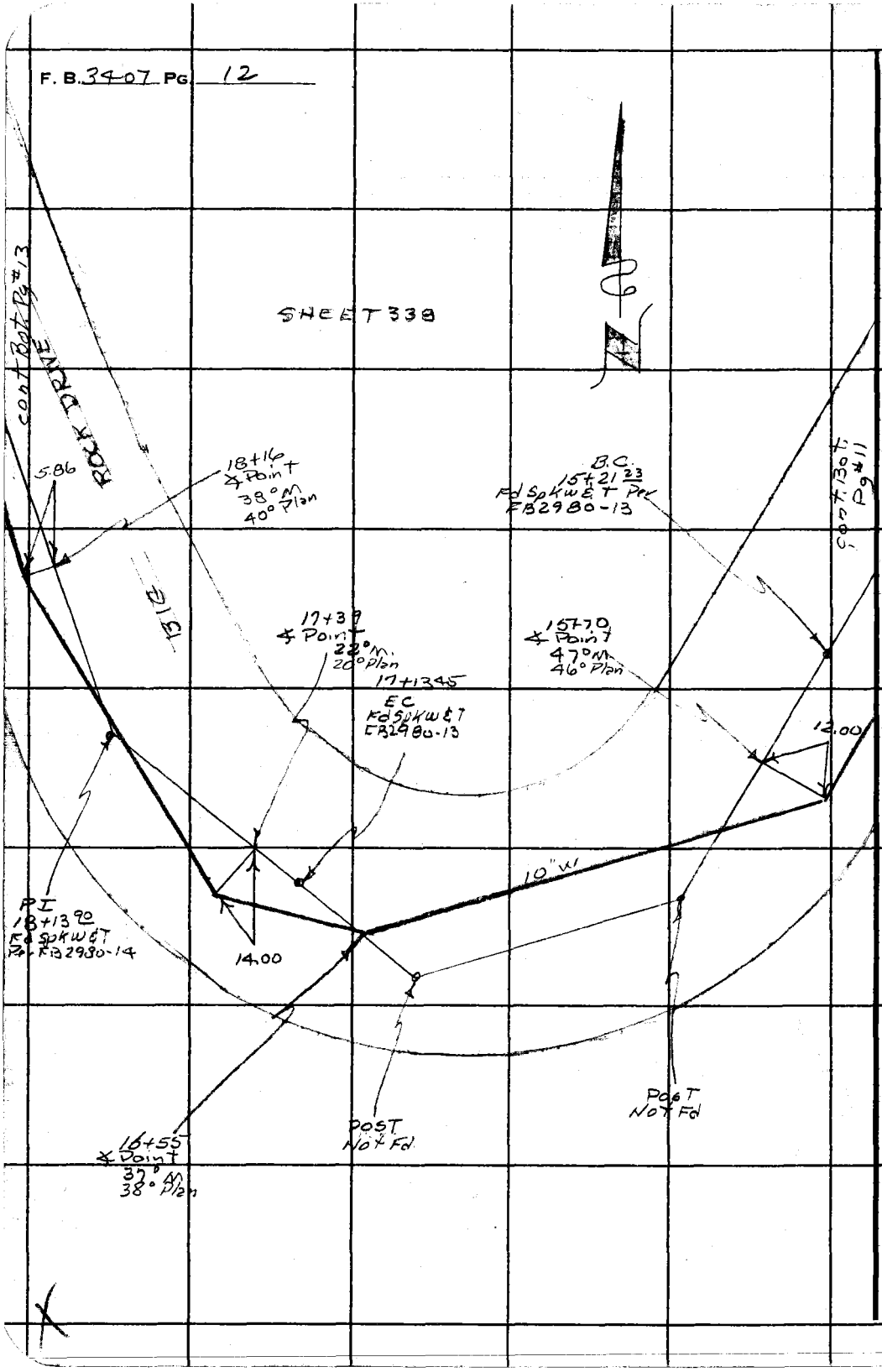
F. B. 3407 PG. 12



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Map No.	JN 2215.15 Tage 108 Std 84 SF	
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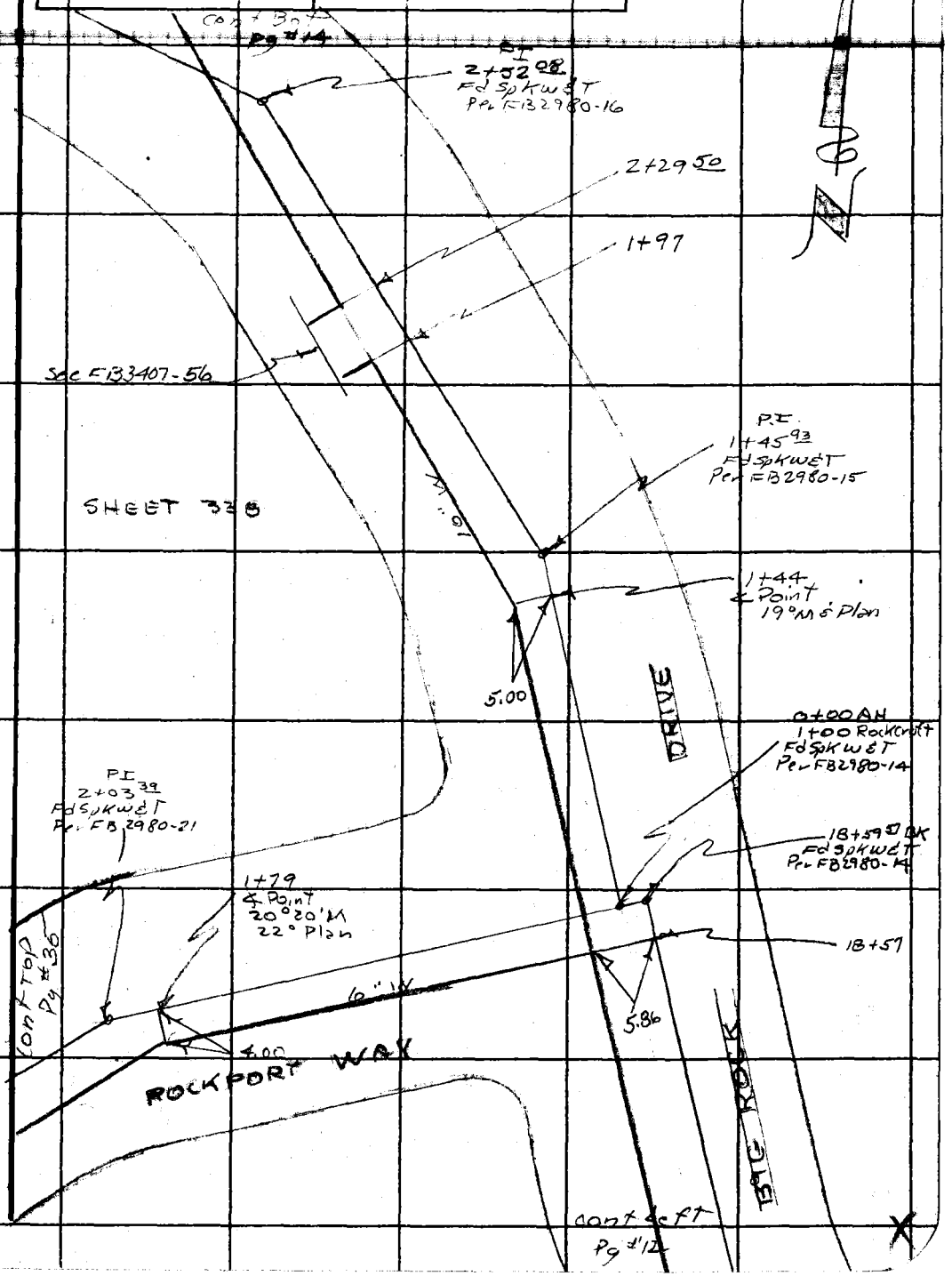
Checked	Notes R.C.D. Date 5-28-67	
Date	Indexed C. J. GALLI	



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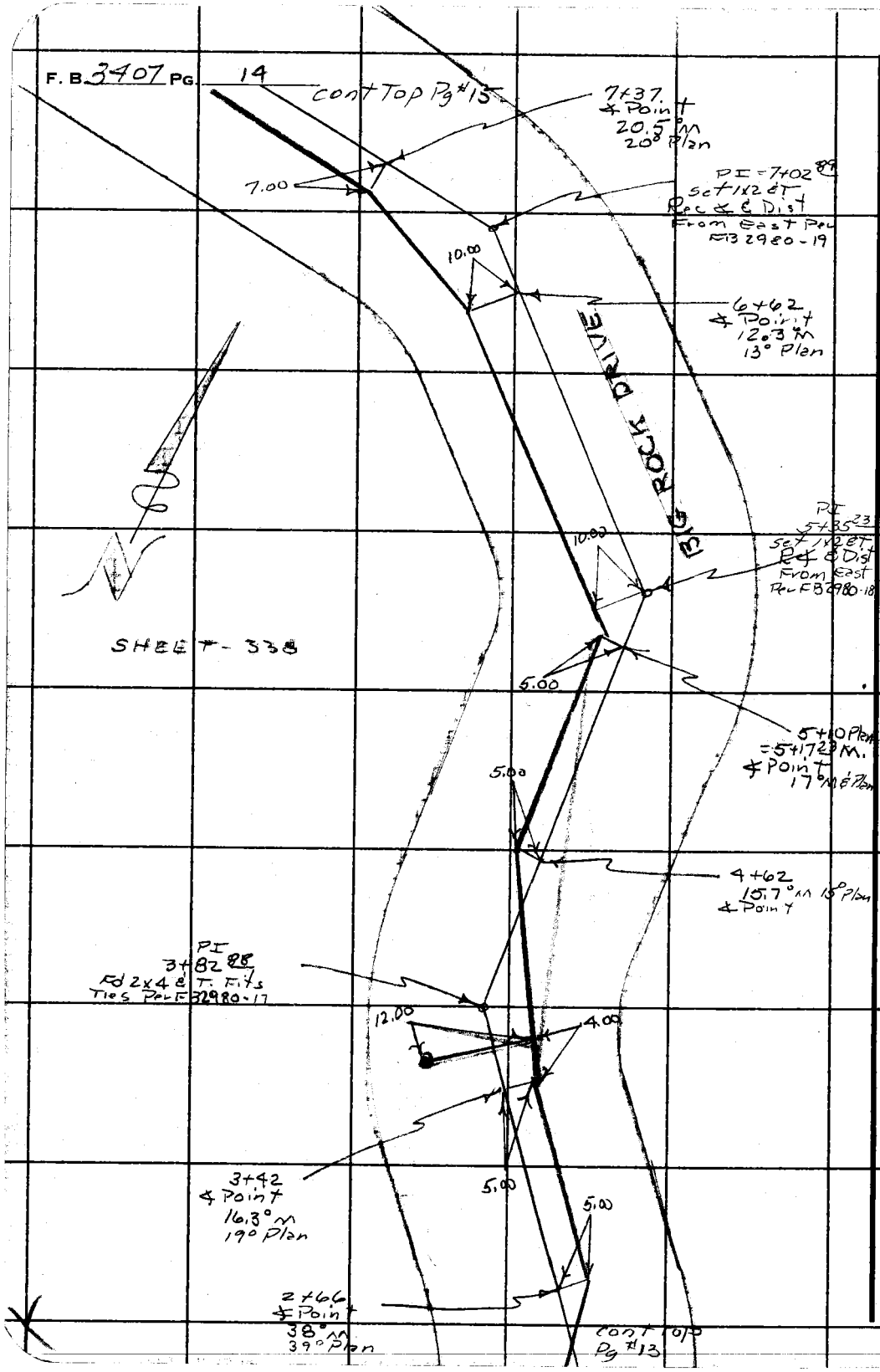
F. B. 3407 PG. 14 cont Top Pg #15



cont to Pg #13

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Notes Ck'd by	Survey of NW Dist #29	F. B. 3407 PG. 15
Map No.	IN 22 15.5 Tape 100 Std 68 °F	
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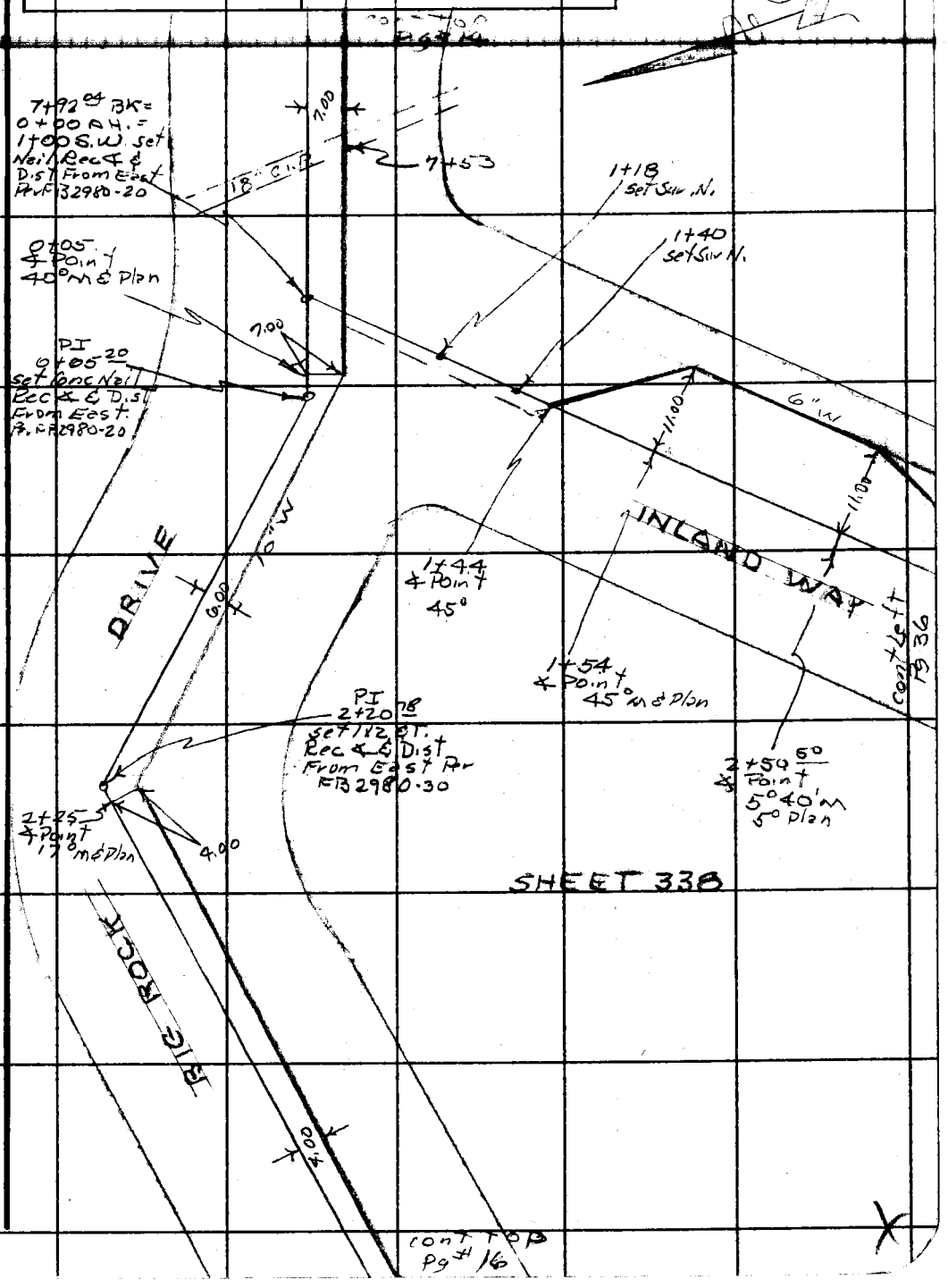
Checked	Notes RCD Date 5-1-61	
Date	Indexed C. J. GALLI	



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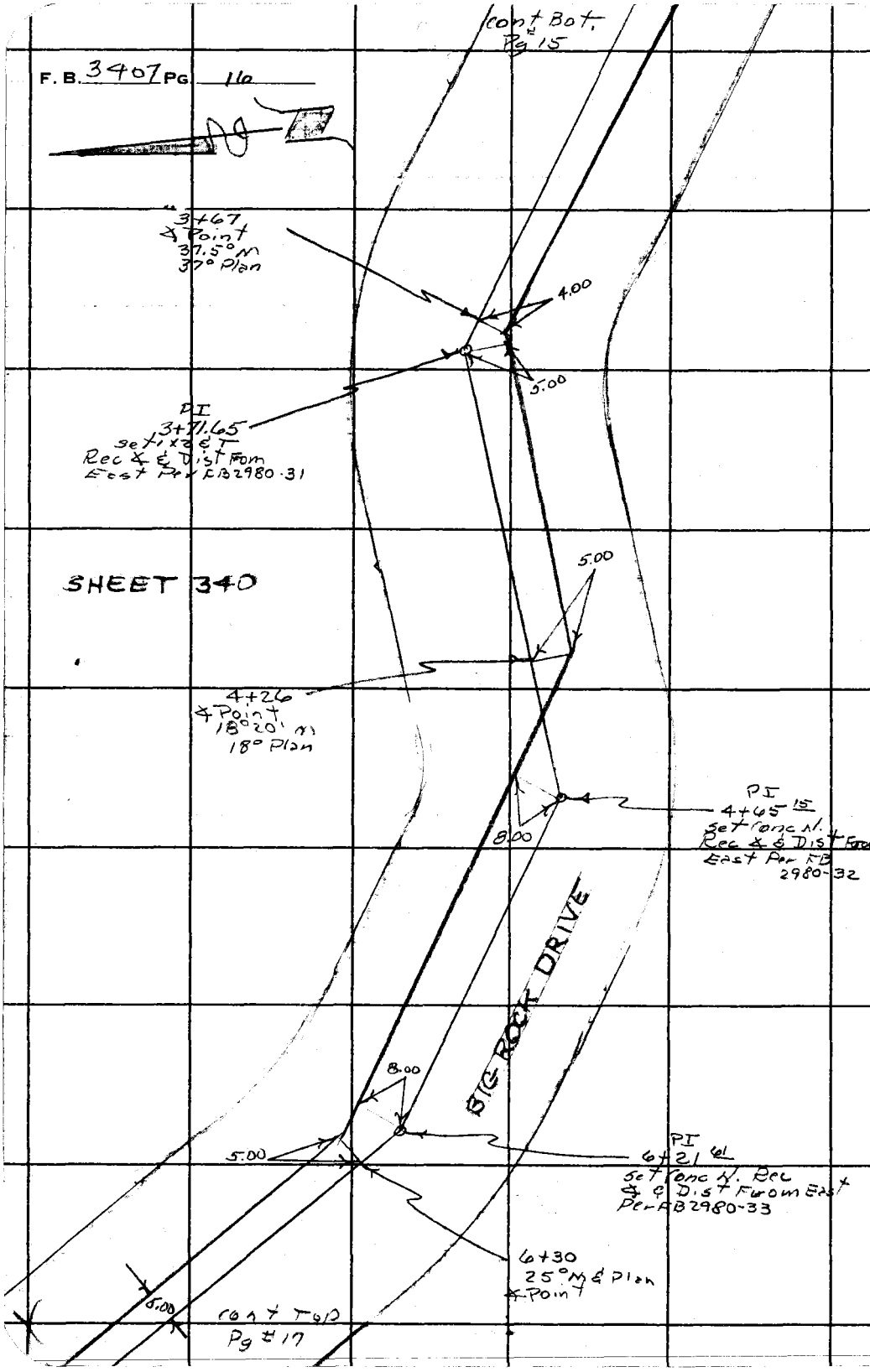
F. B. 3407 PG. 116



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Notes Ck'd by	Survey of W.W. Dist #29	F. B. 3407 Pg. 17
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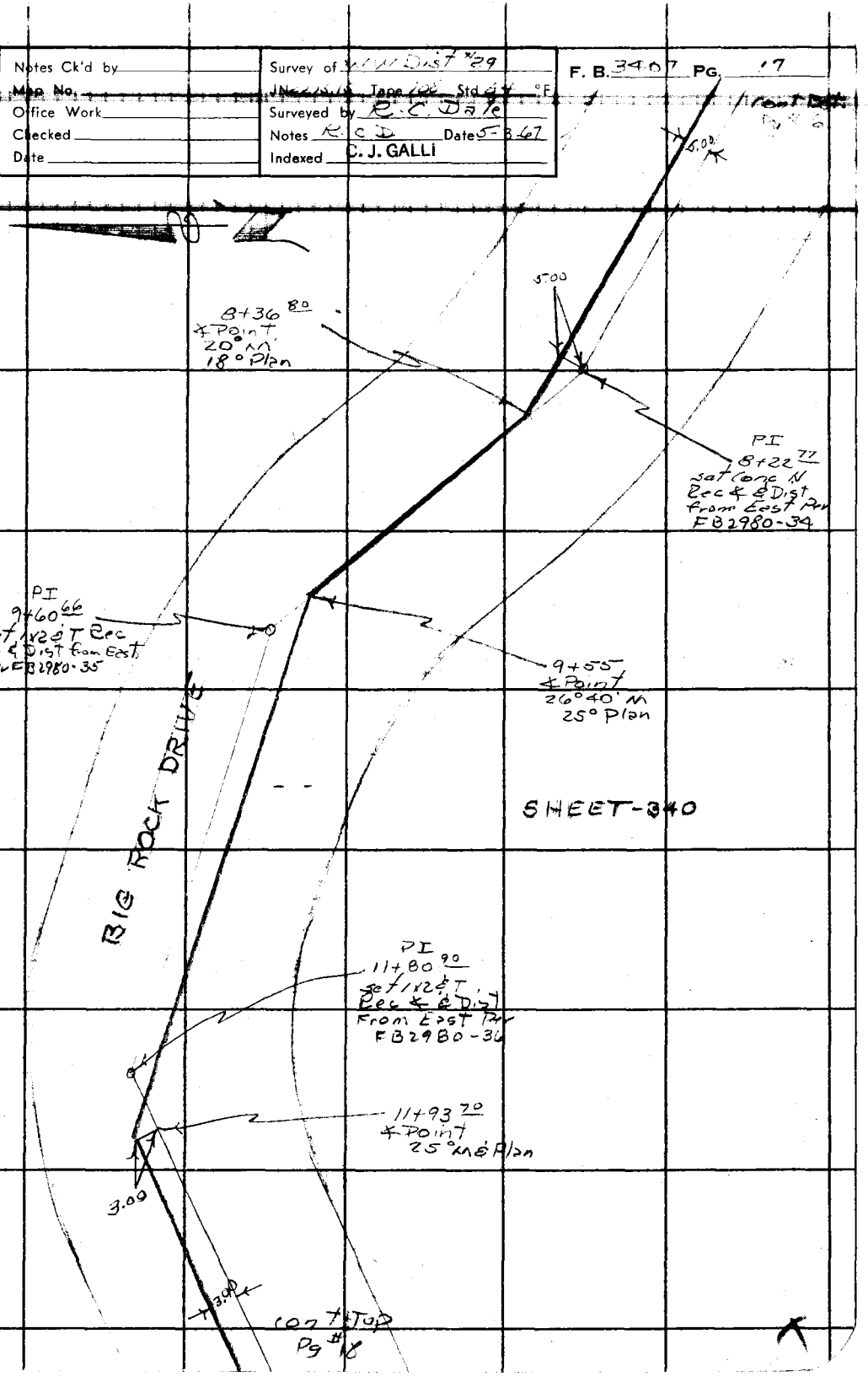
Date	Indexed C. J. GALLI	



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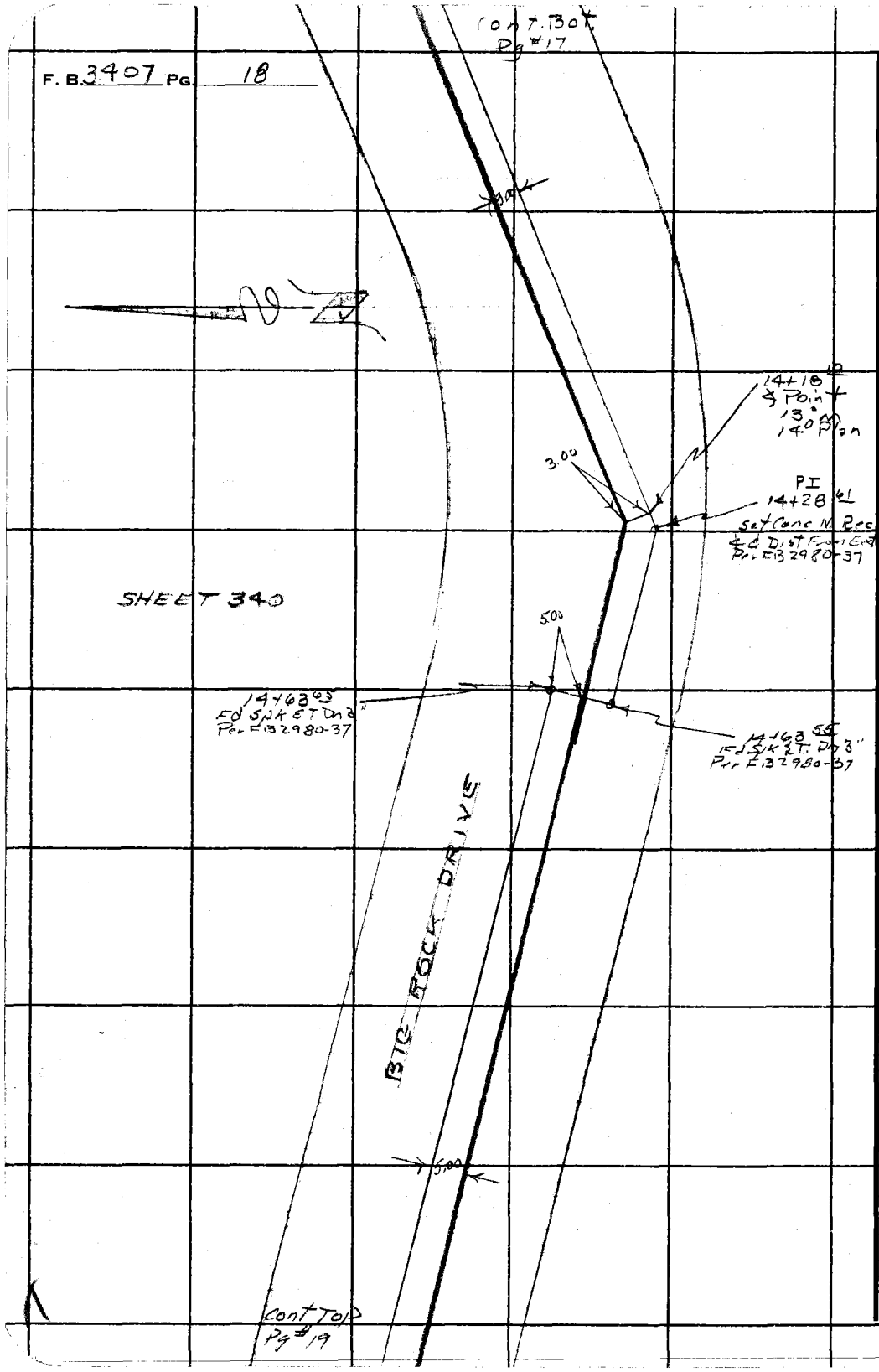

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Map No.	JN 2415.5 Tape 100 Std 84 °F	
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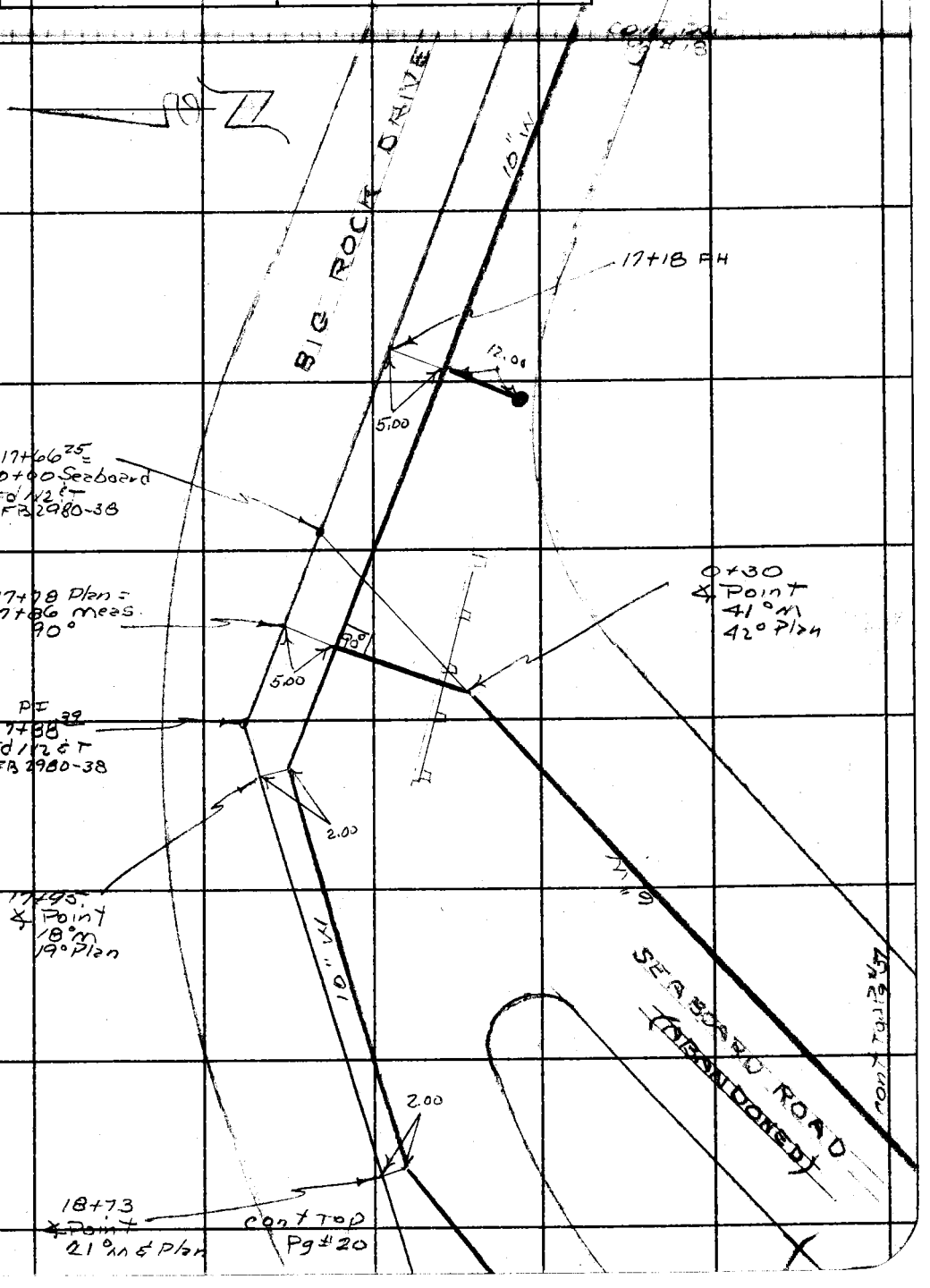
Checked	Notes R.C.D. Date 4-28-67	
Date	Indexed C. J. GALLI	



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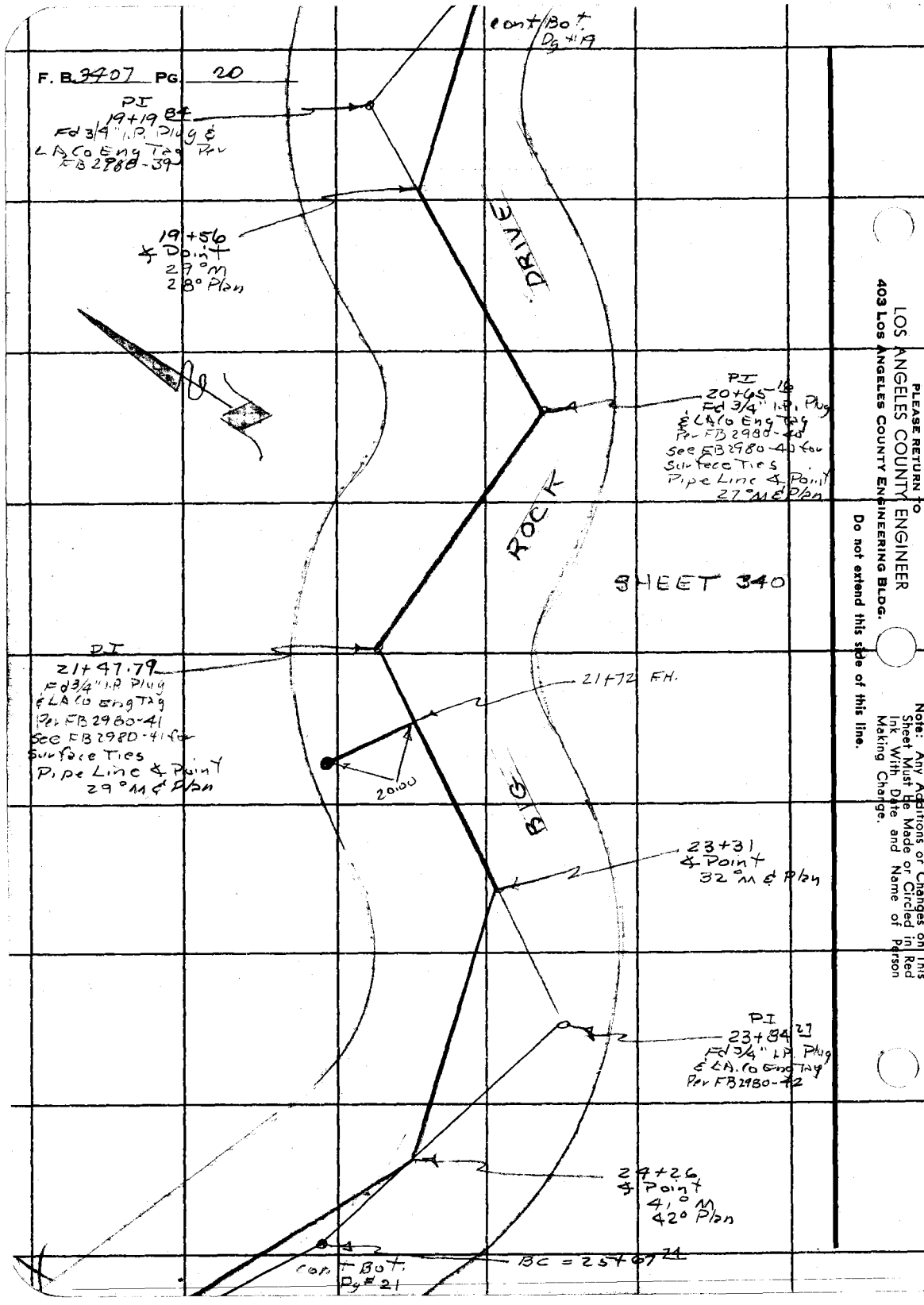

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Map No.	JN [illegible] Tape 1.98 Std [illegible] °F	Cont. Pot.
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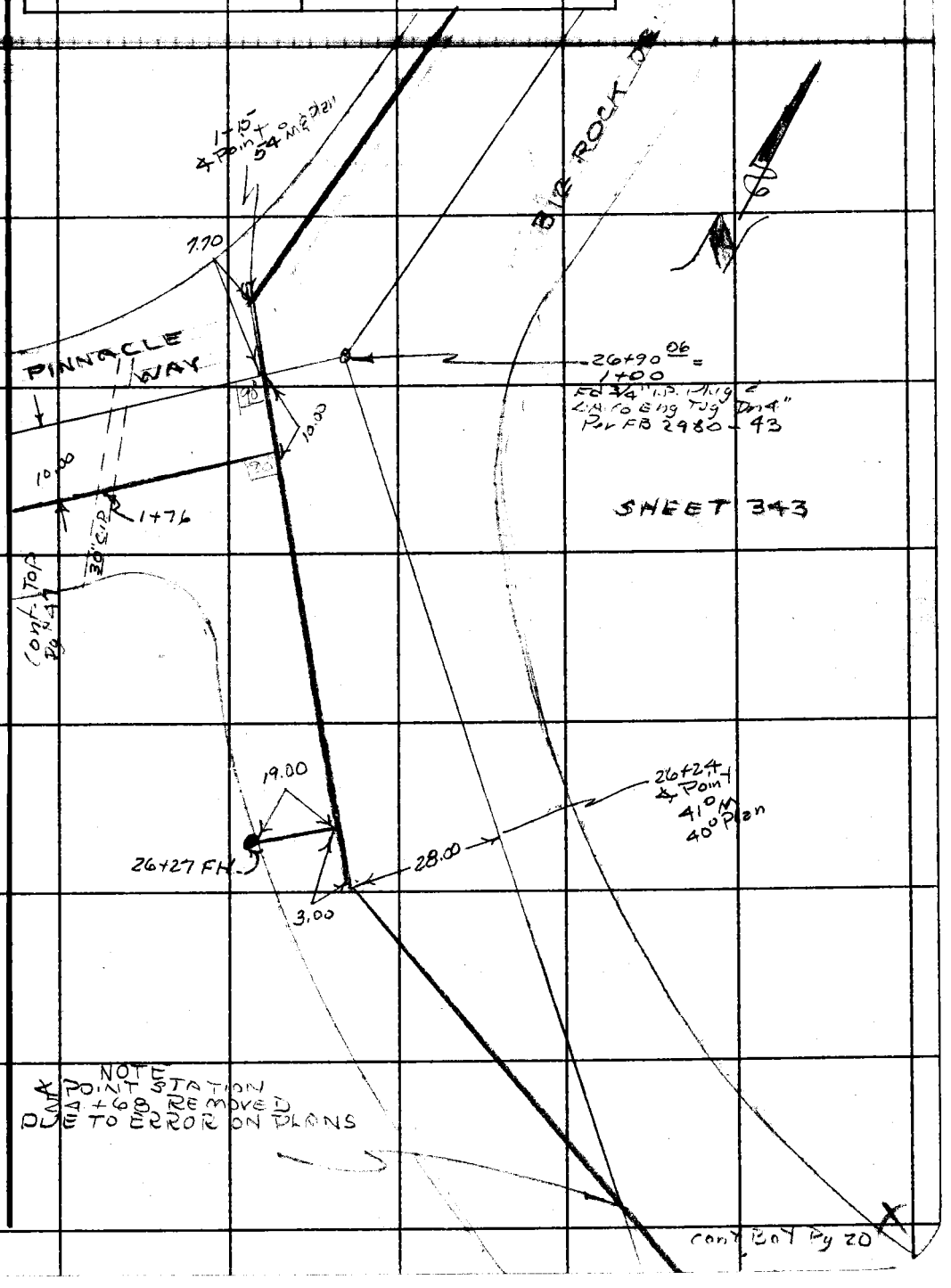
Checked	Notes R.C.D. Date 2-23-67	
Date	Indexed C. J. GALLI	



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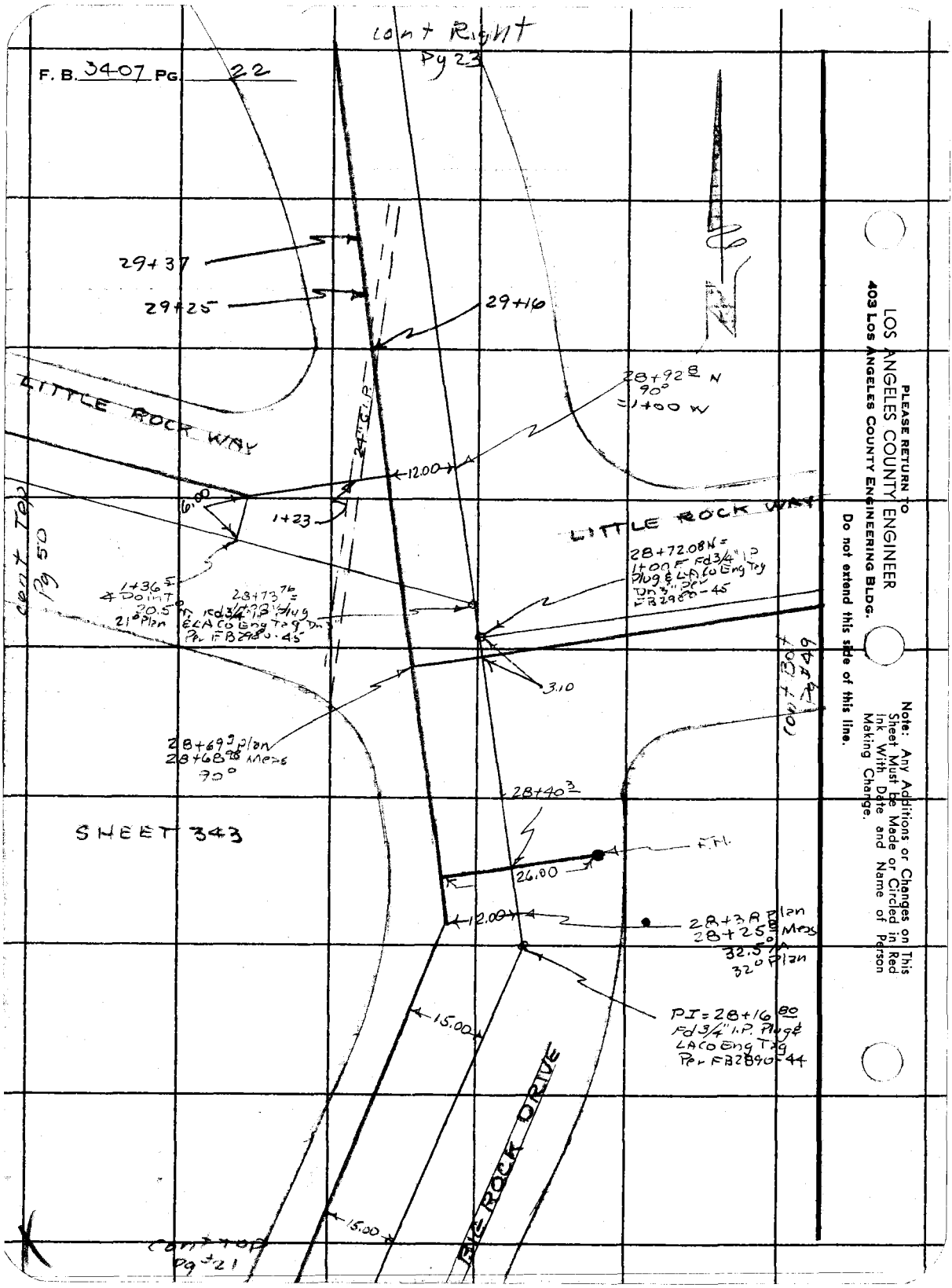

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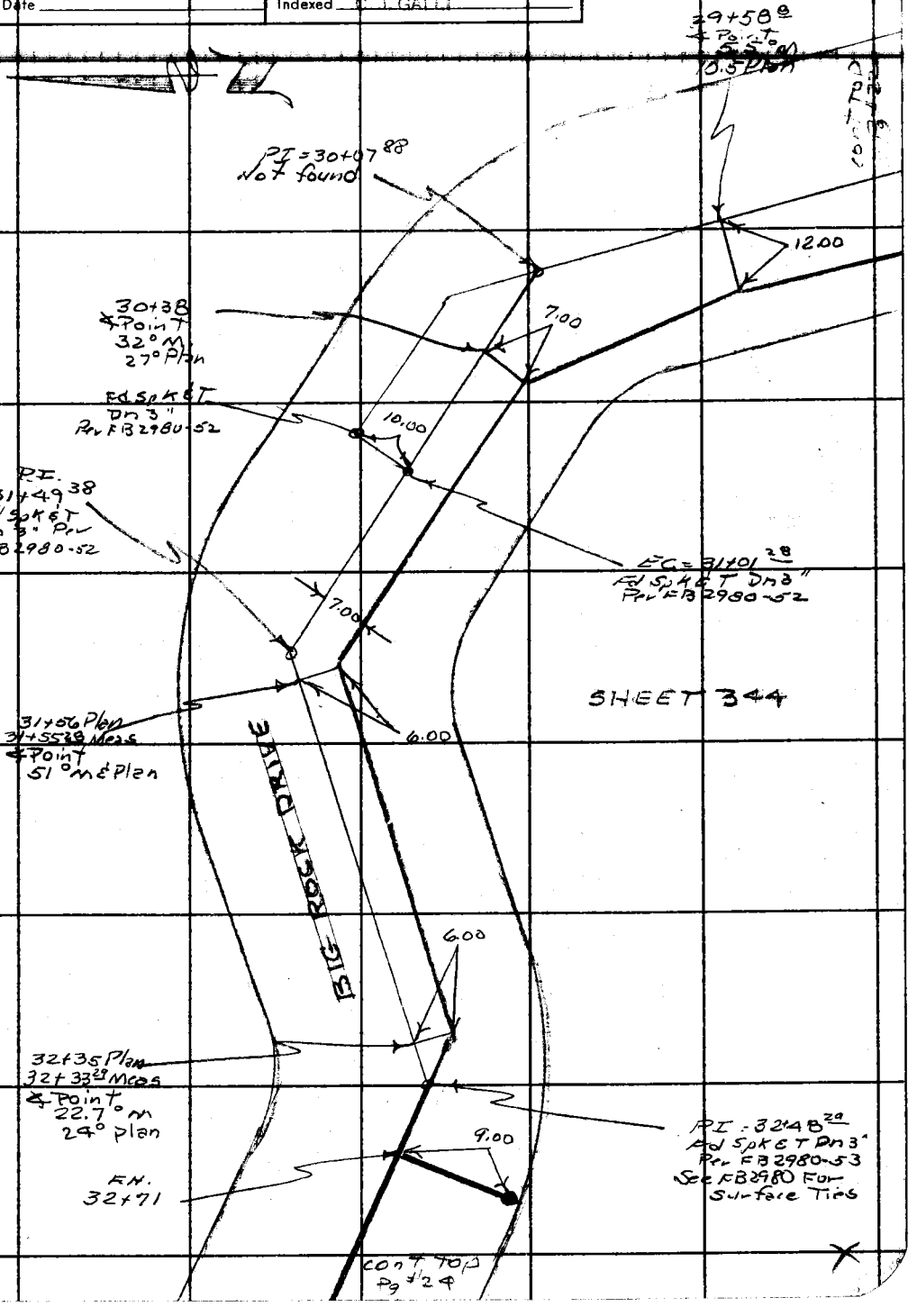
Date	Indexed C. I. GALLI	



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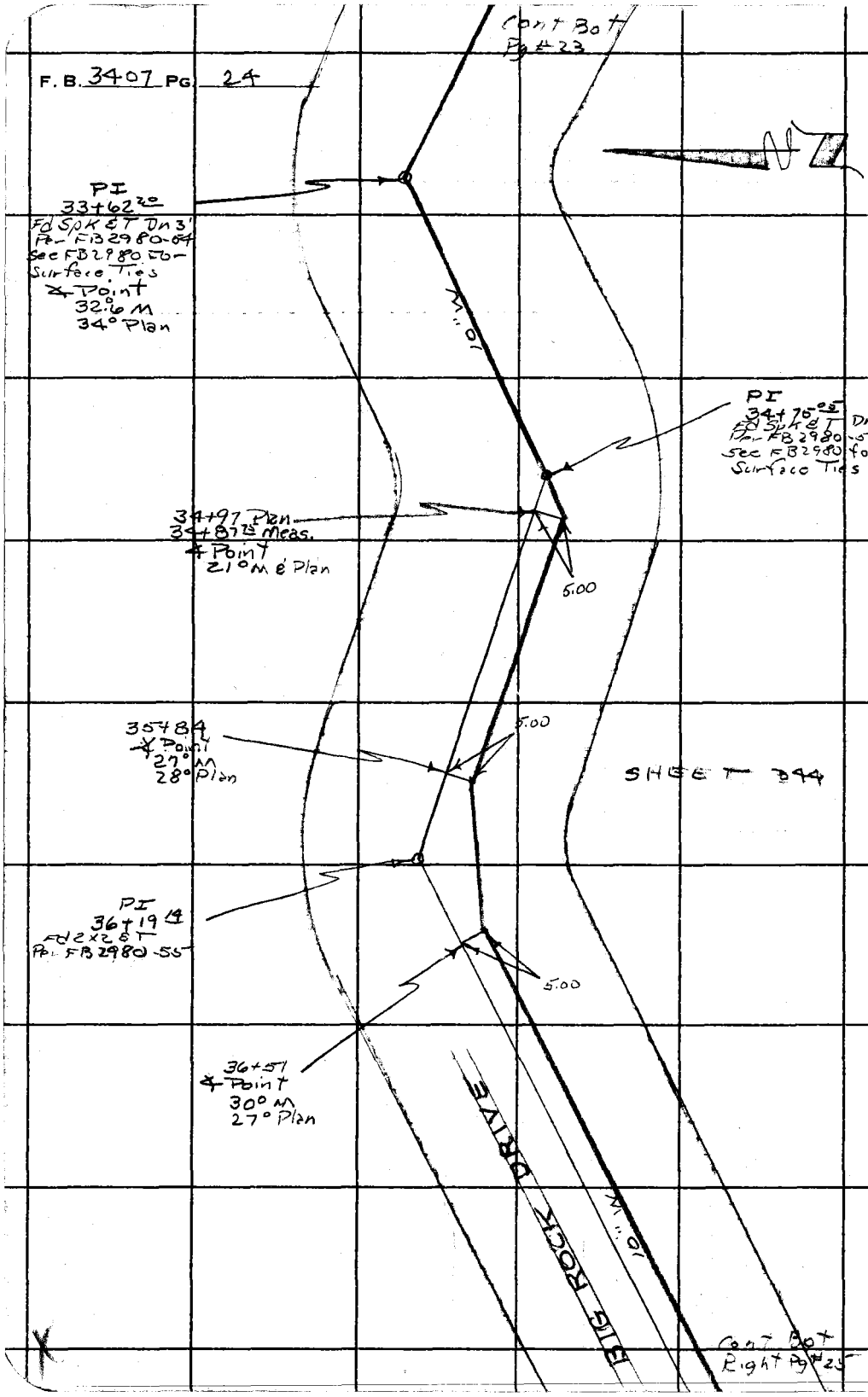
F. B. 3407 PG. 24



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Map No.	JN 2215.15 Tape 100 Std 84 °F	Cont Bot Pg #26
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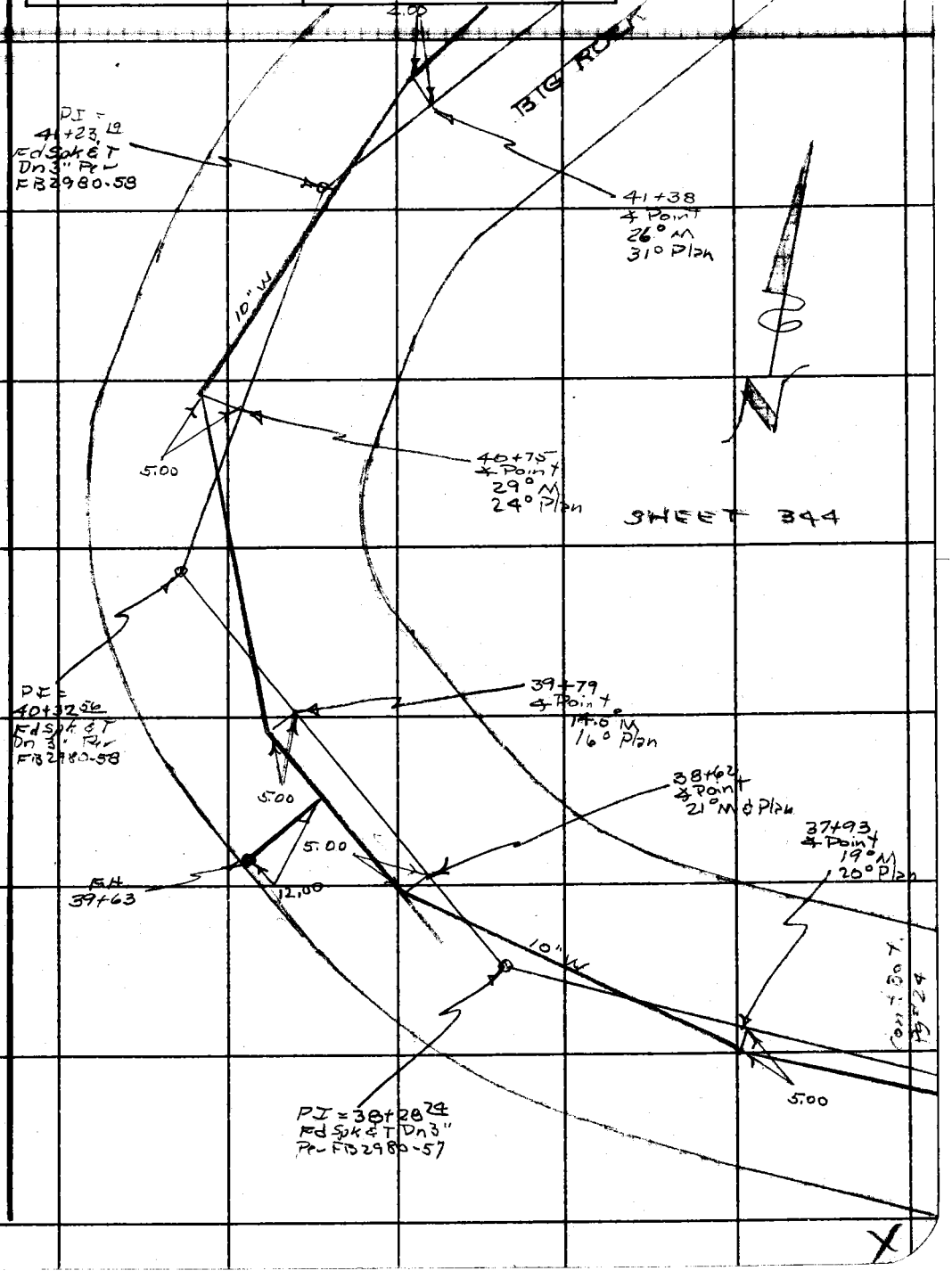
Date	Indexed C. J. GALLI	



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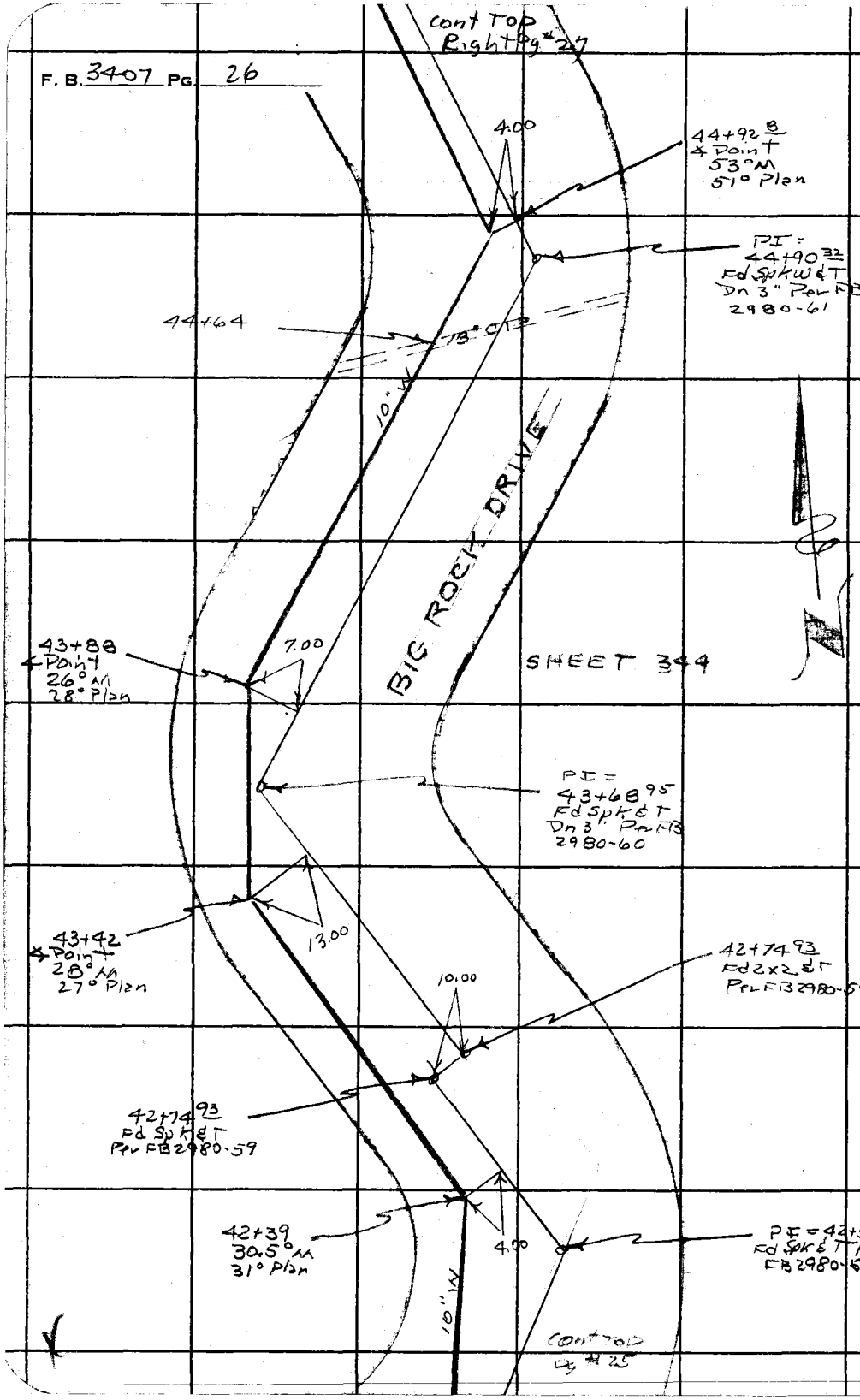
F. B. 3407 PG. 26



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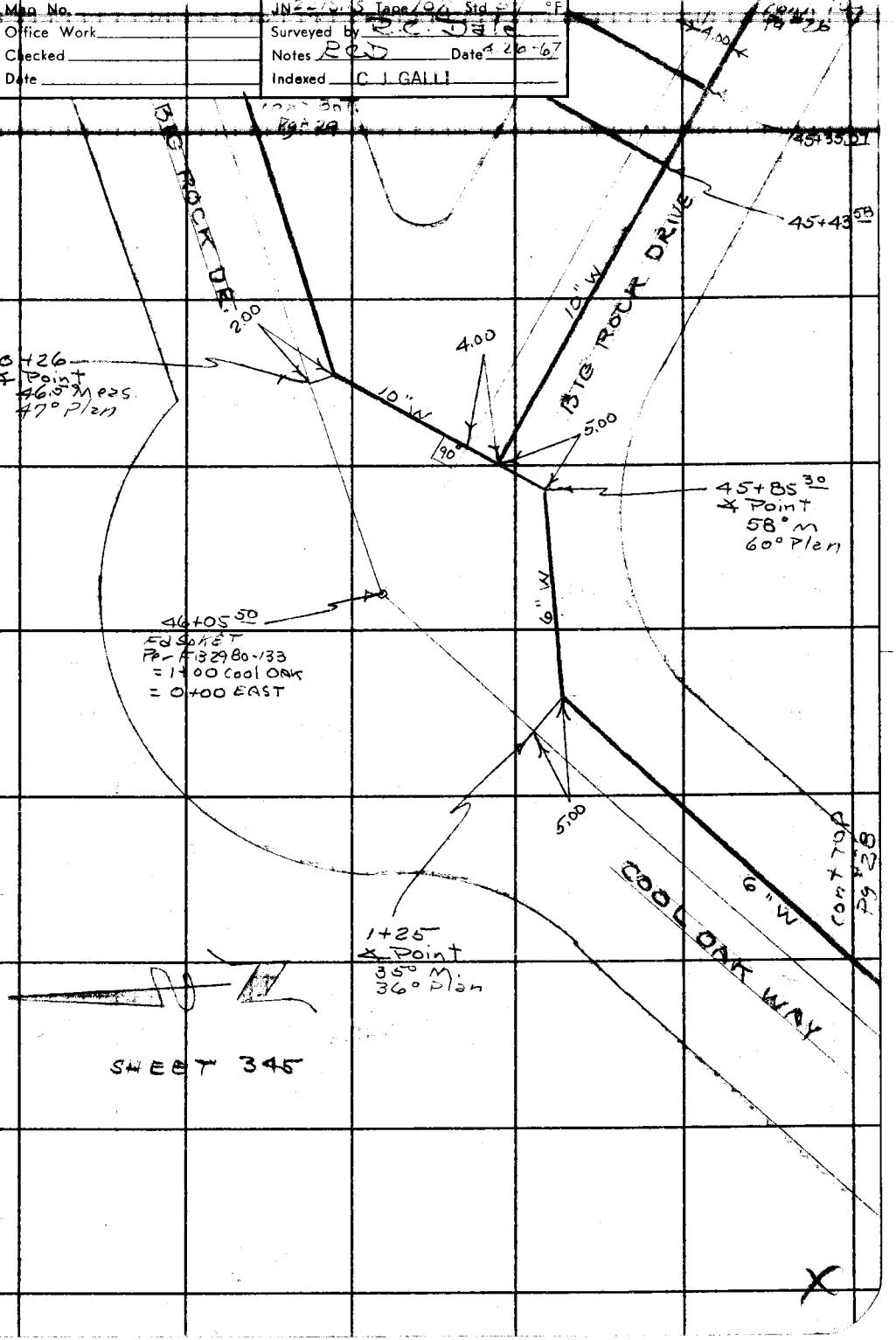

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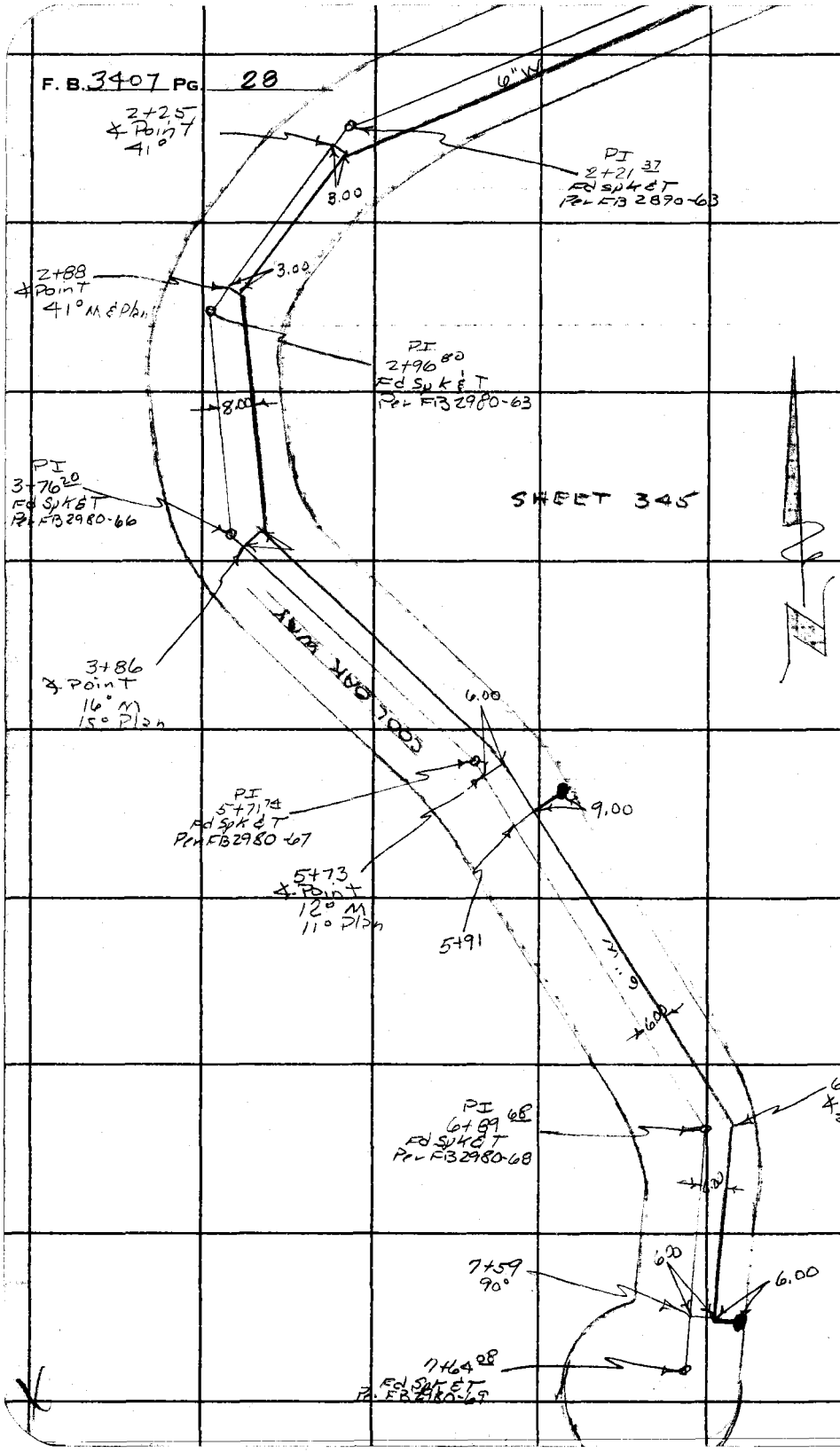
F. B. 3407 PG. 28



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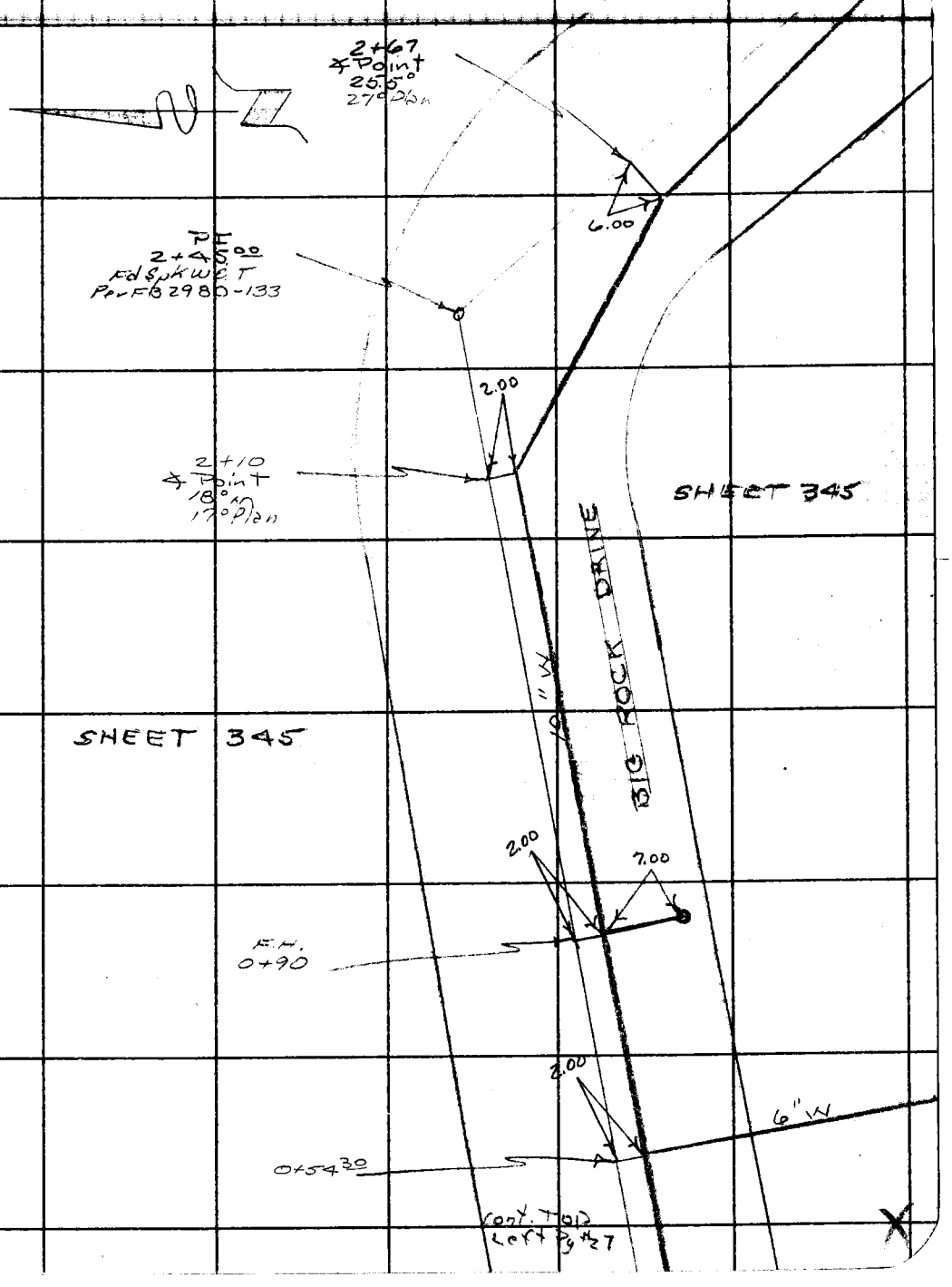
Map No.	JN 22151 Tape 100 Std 87 °F
Office Work	Surveyed by R C Dale
Checked	Notes R C D Date 4-26-67
Date	Indexed C. J. GALLI

F. B. 3407 PG. 29



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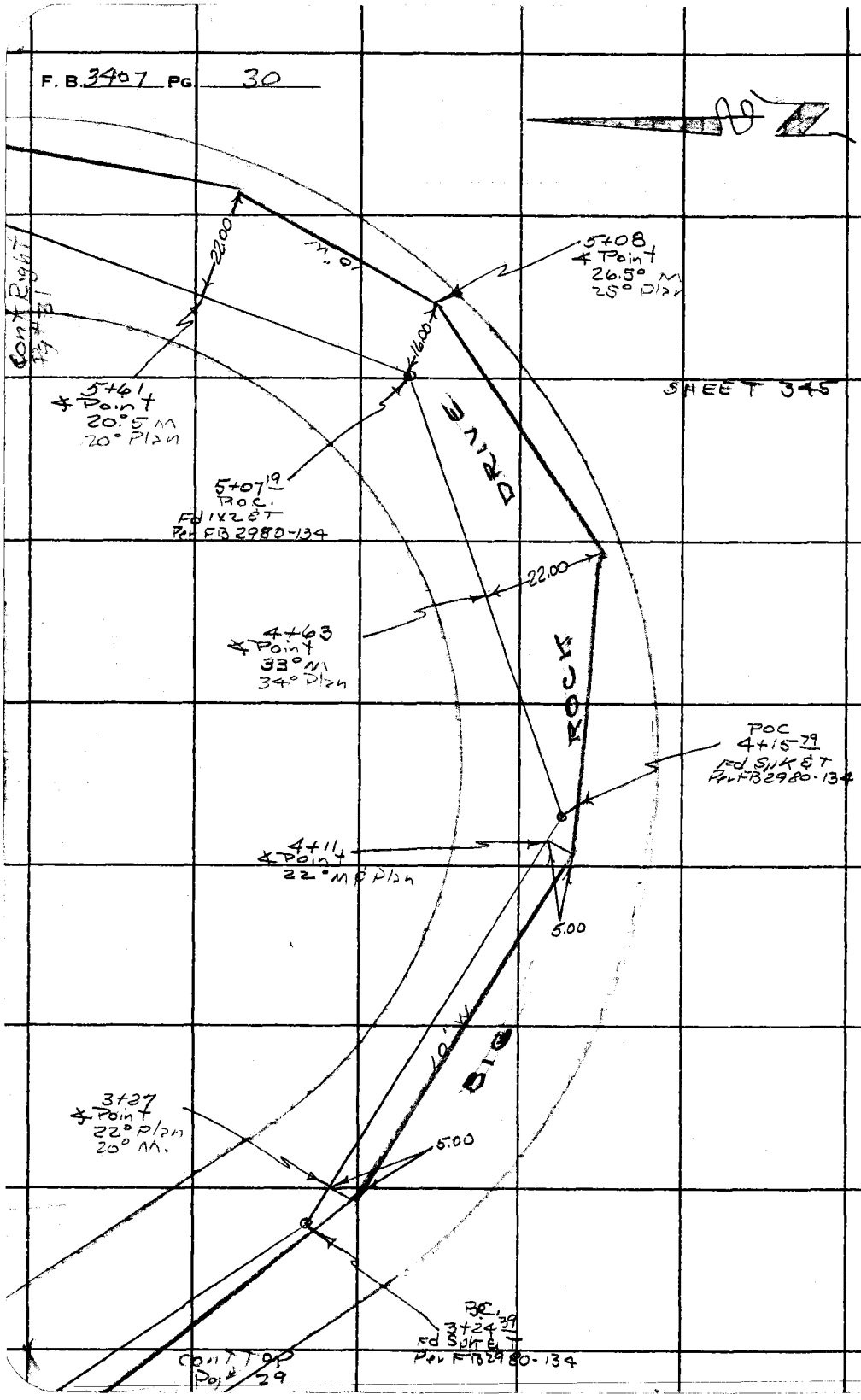

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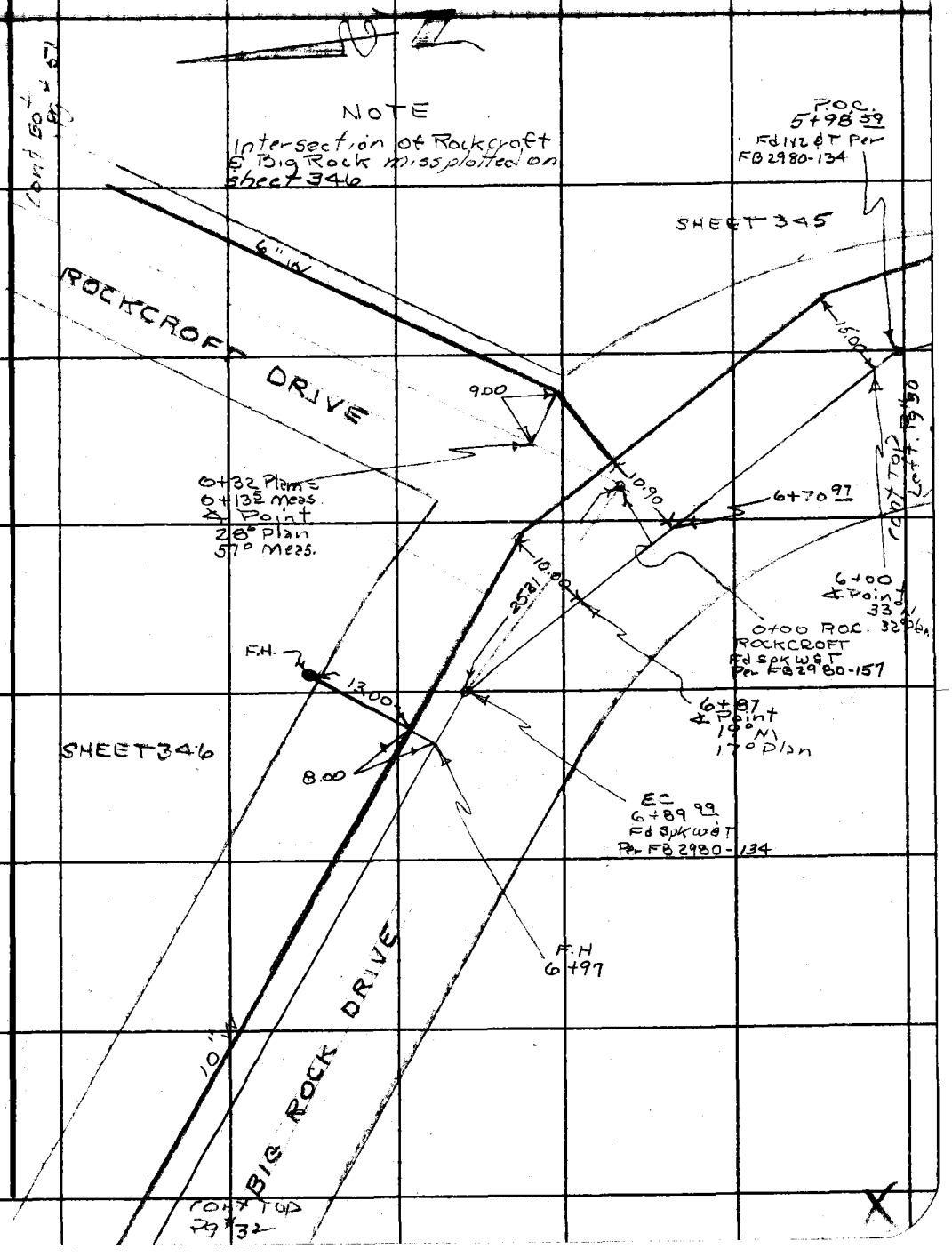

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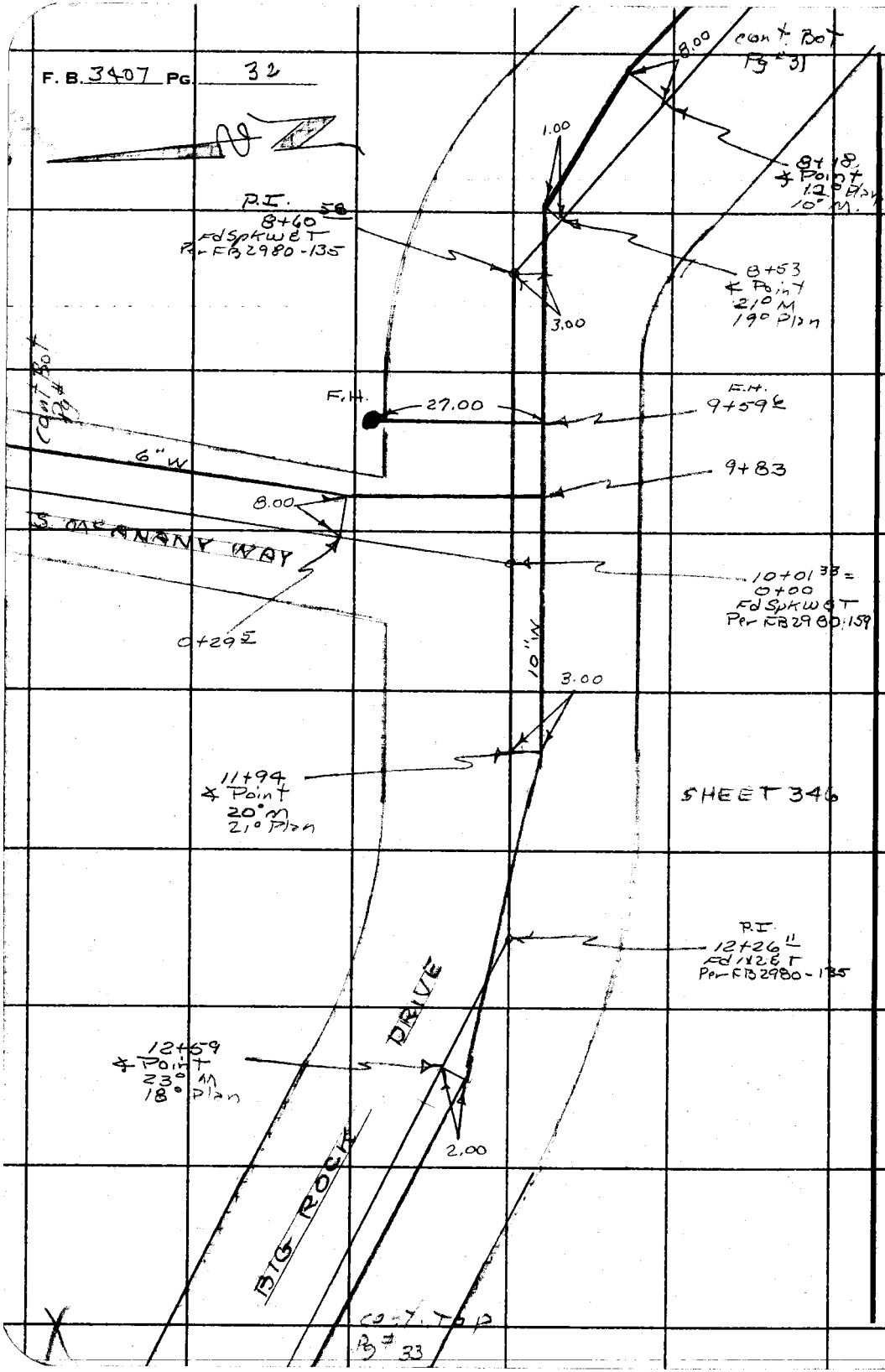
F. B. 3407 Pg. 32



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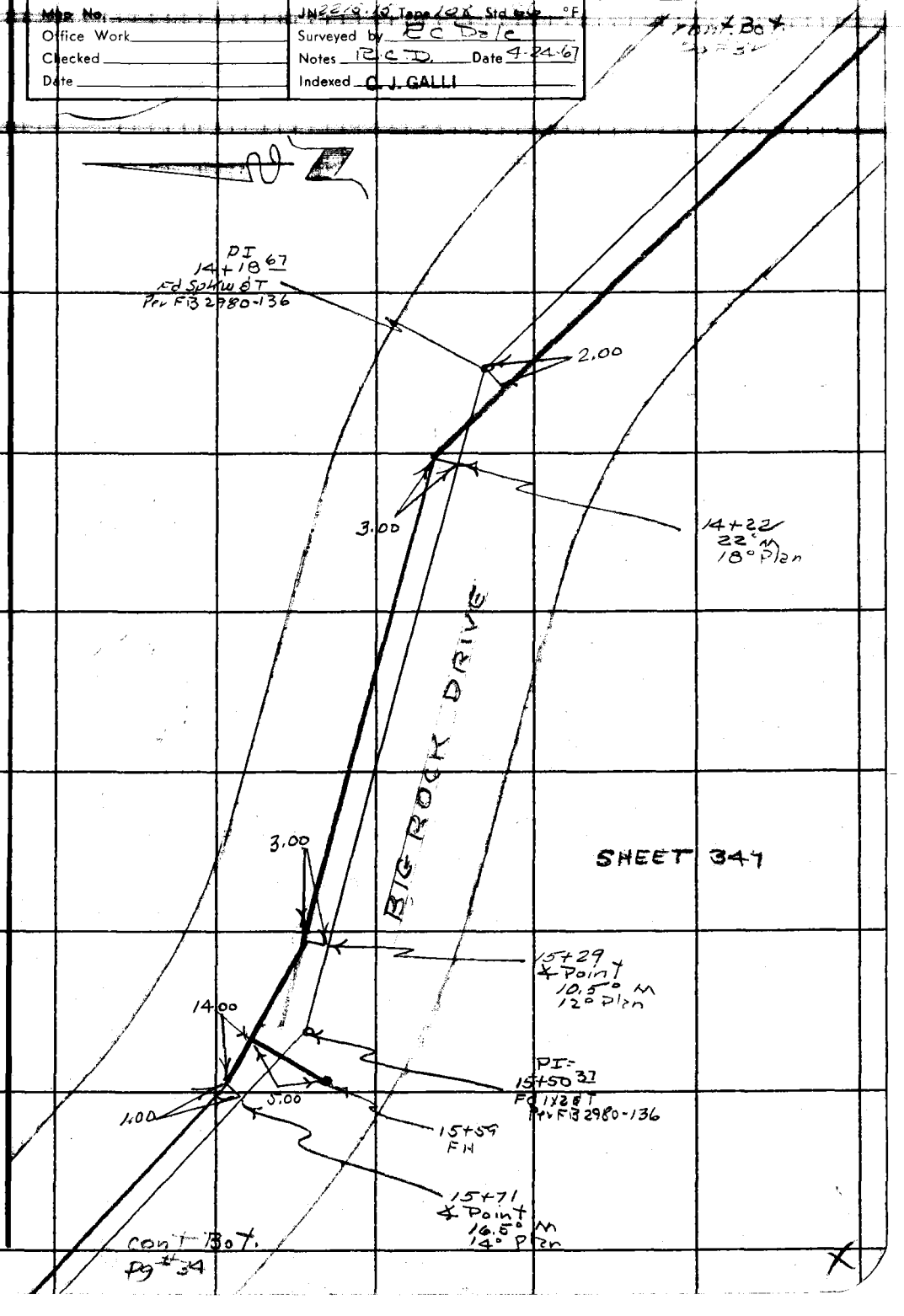
Checked	Notes R.C.D. Date 4-24-67	
Date	Indexed C. J. GALLI	



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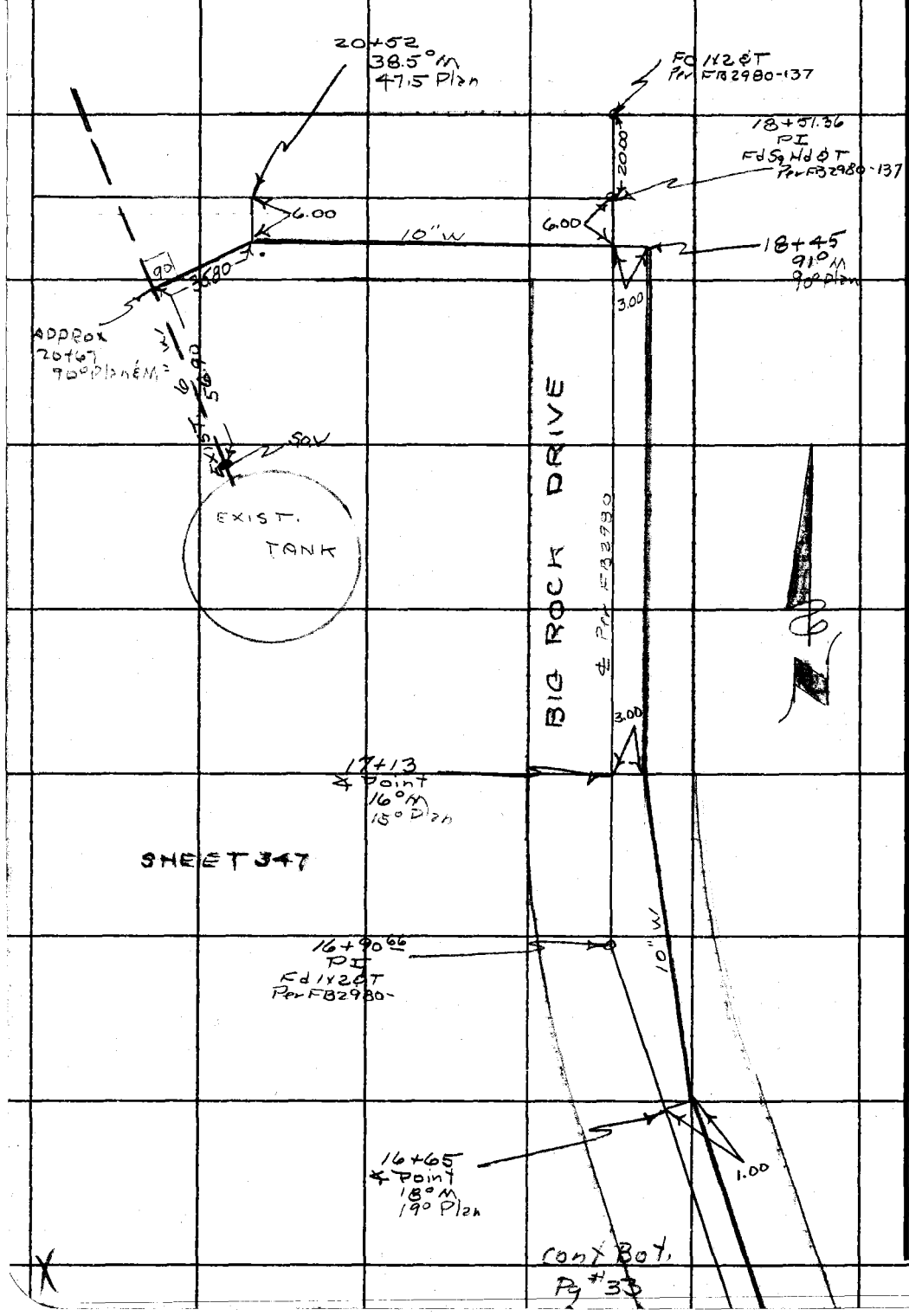
76F3095 CE # 310 3-61

F. B. 3407 PG. 34



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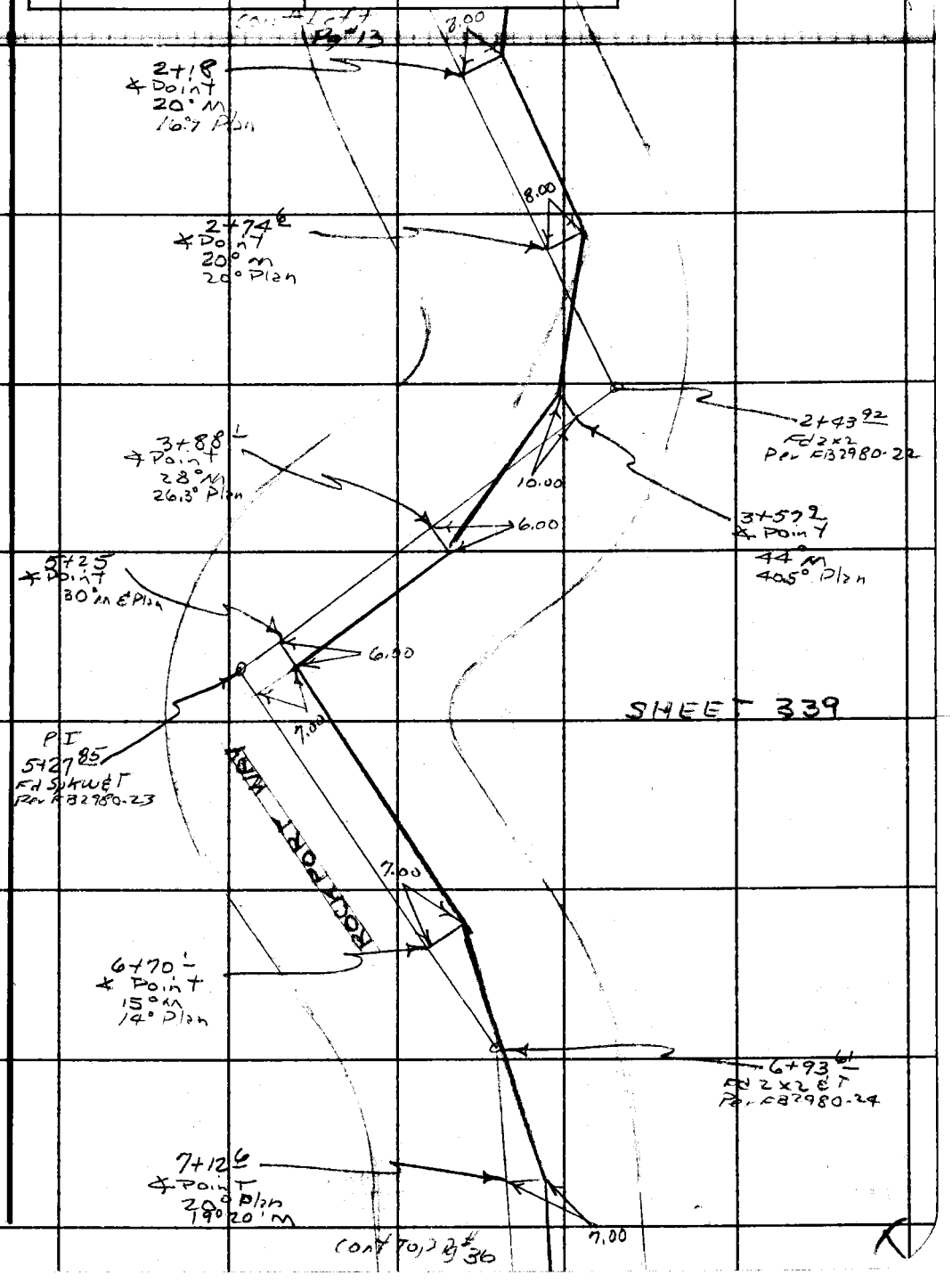
Date	Indexed C. J. GALLI	



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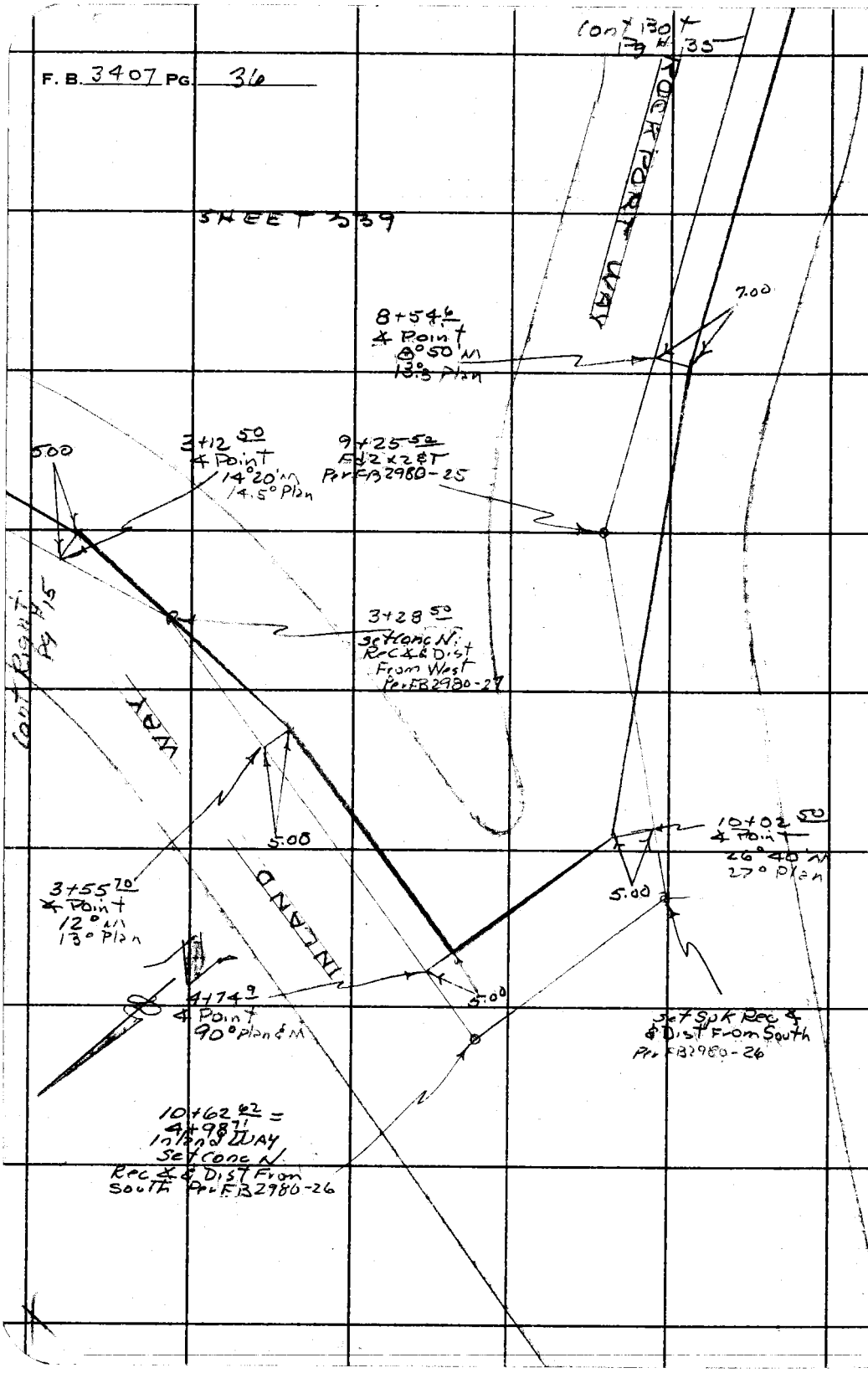
F. B. 3407 PG. 36



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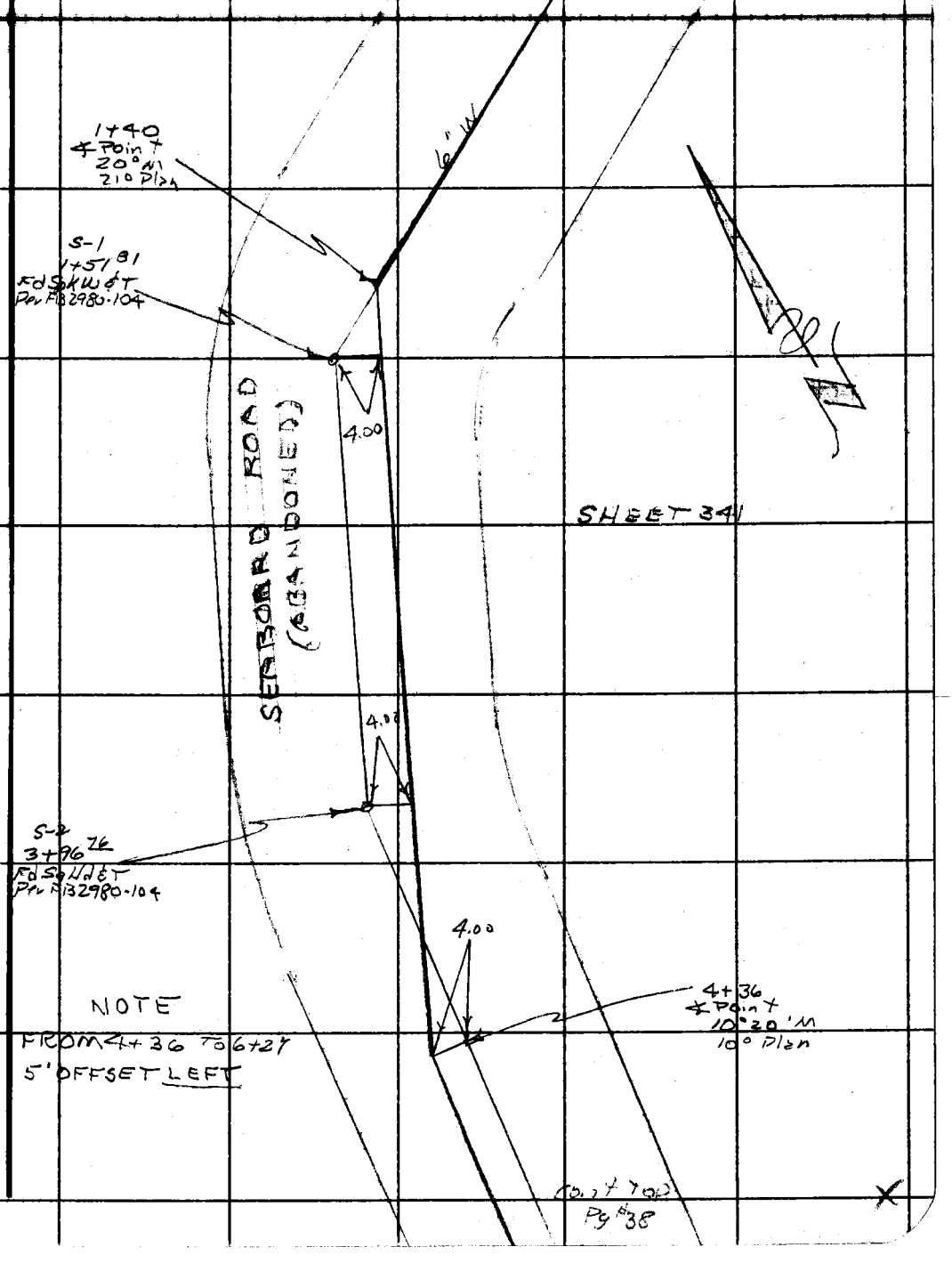
Notes Ck'd by	Survey of WW Dist #29	F. B. 3407 Pg. 37
Map No.	JN 2215.15 Tape 105 Std 8-1 °F	
Office Work	Surveyed by RCD Date	
Checked	Notes RCD Date 5-4-67	
Date	Indexed C. J. GALLI	



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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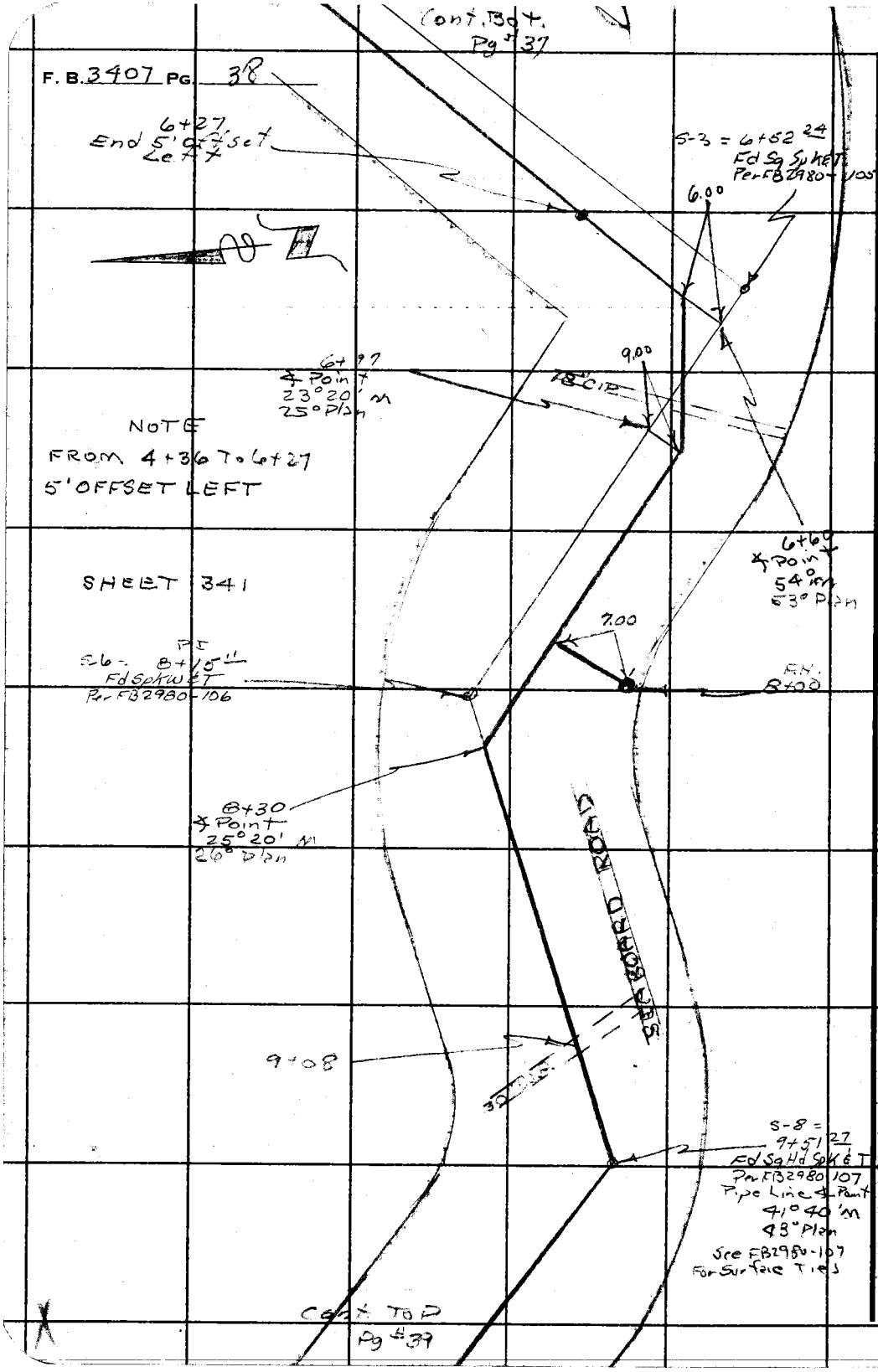
PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F309S CE # 310 3-61



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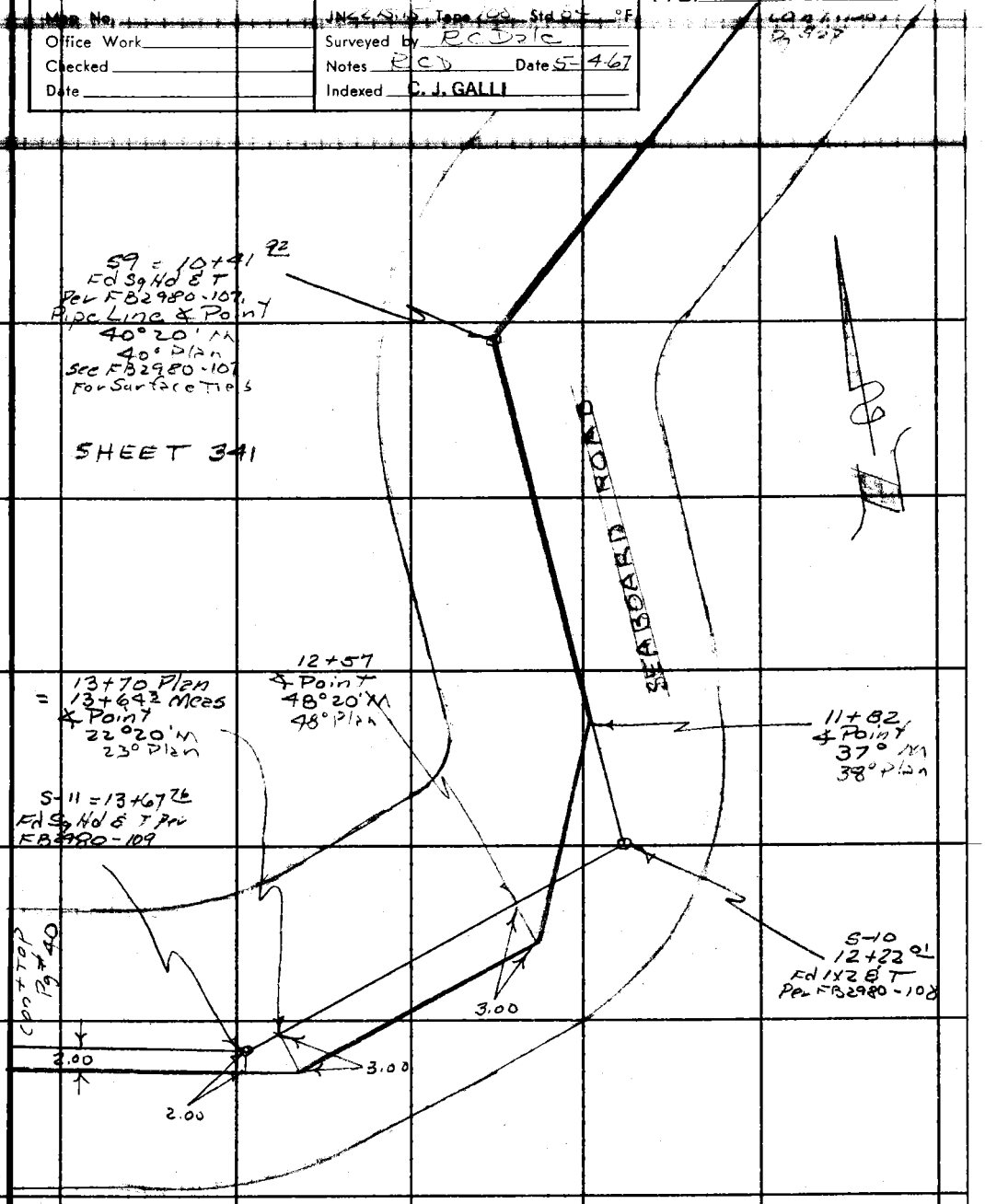
Notes Ck'd by	Survey of WW Dist #29	F. B. 3407 Pg. 20
Map No.	JN 2 [illegible] Tape [illegible] Std [illegible] °F	[illegible]
Office Work	Surveyed by RC Dale	
Checked	Notes RCD Date 5-4-67	
Date	Indexed C. J. GALLI	



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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PLEASE RETURN TO
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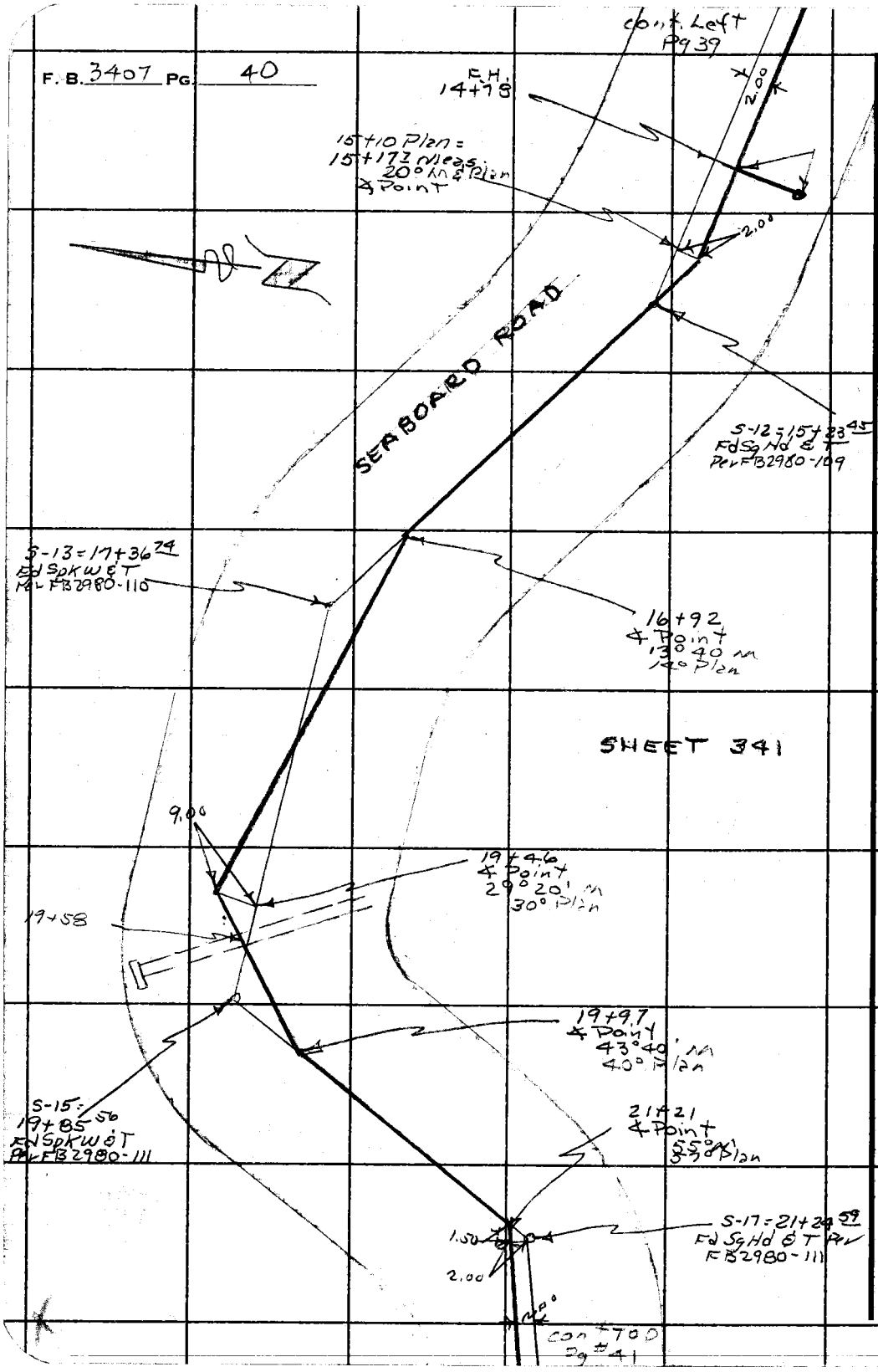
403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F309S CE # 310 3-61

F. B. 3407 PG. 40



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403 Los Angeles County Engineering Bldg.

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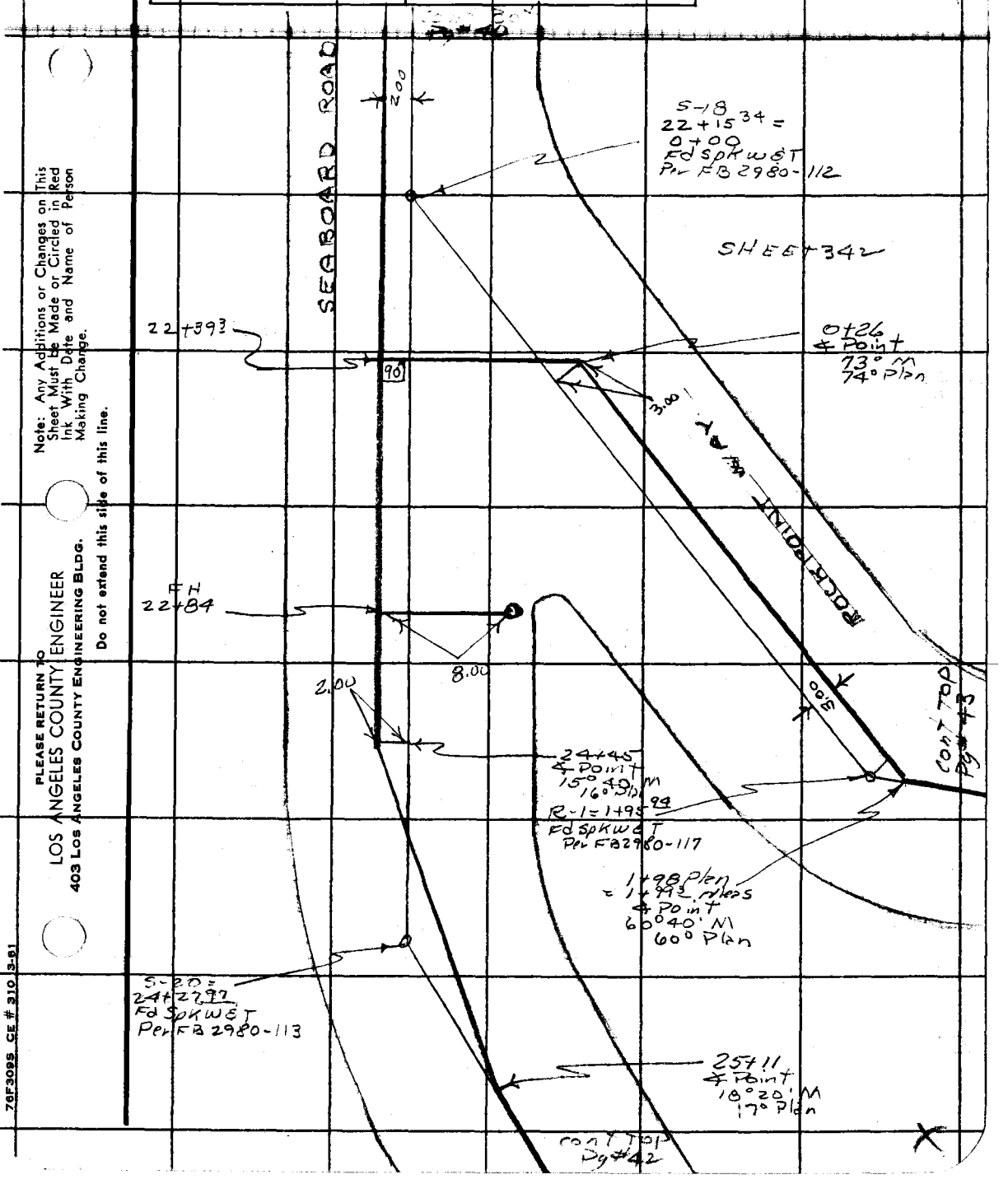
Note: Any Additions or Changes on This Sheet Must Be Made or Circled in Red Ink With Date and Name of Person Making Change.

Notes Ck'd by	Survey of WW Dist #29	F. B. 3407 Pg. 41
Map No.	JN 22-515 Tape 108 Std 87 °F	
Office Work	Surveyed by RC Dale	
Checked	Notes RCD Date 5-4-67	
Date	Indexed C. J. GALLI	



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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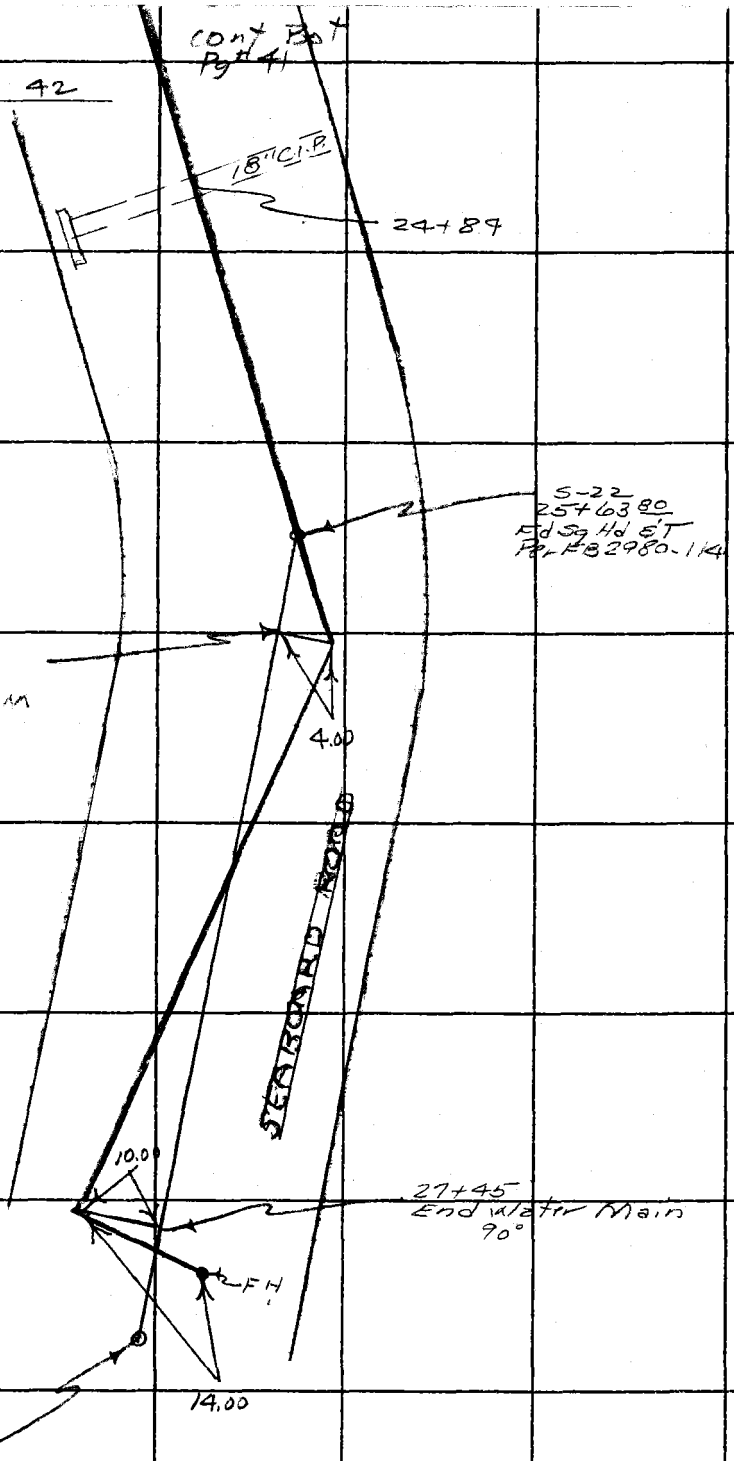
PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F309S CE # 310 3-61

F. B. 3407 PG. 42



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403 Los Angeles County Engineering Bldg.

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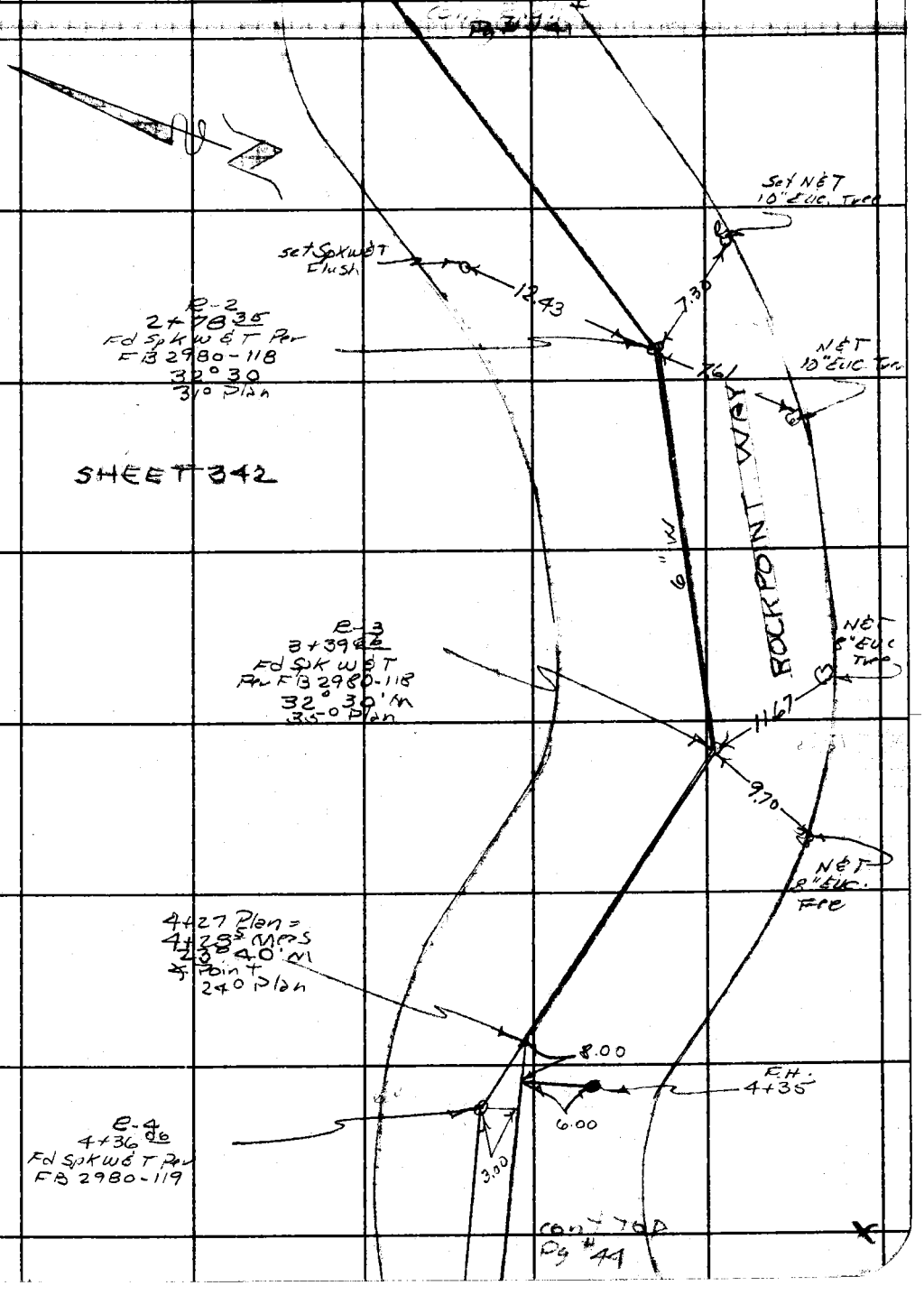
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Notes Ck'd by	Survey of W W Dist #29
Map No.	1822.15 Term 108 Std 89 °F
Office Work	Surveyed by R C Dale
Checked	Notes R.C.D. Date 5-4-67
Date	Indexed

F. B. 2407 PG. 12



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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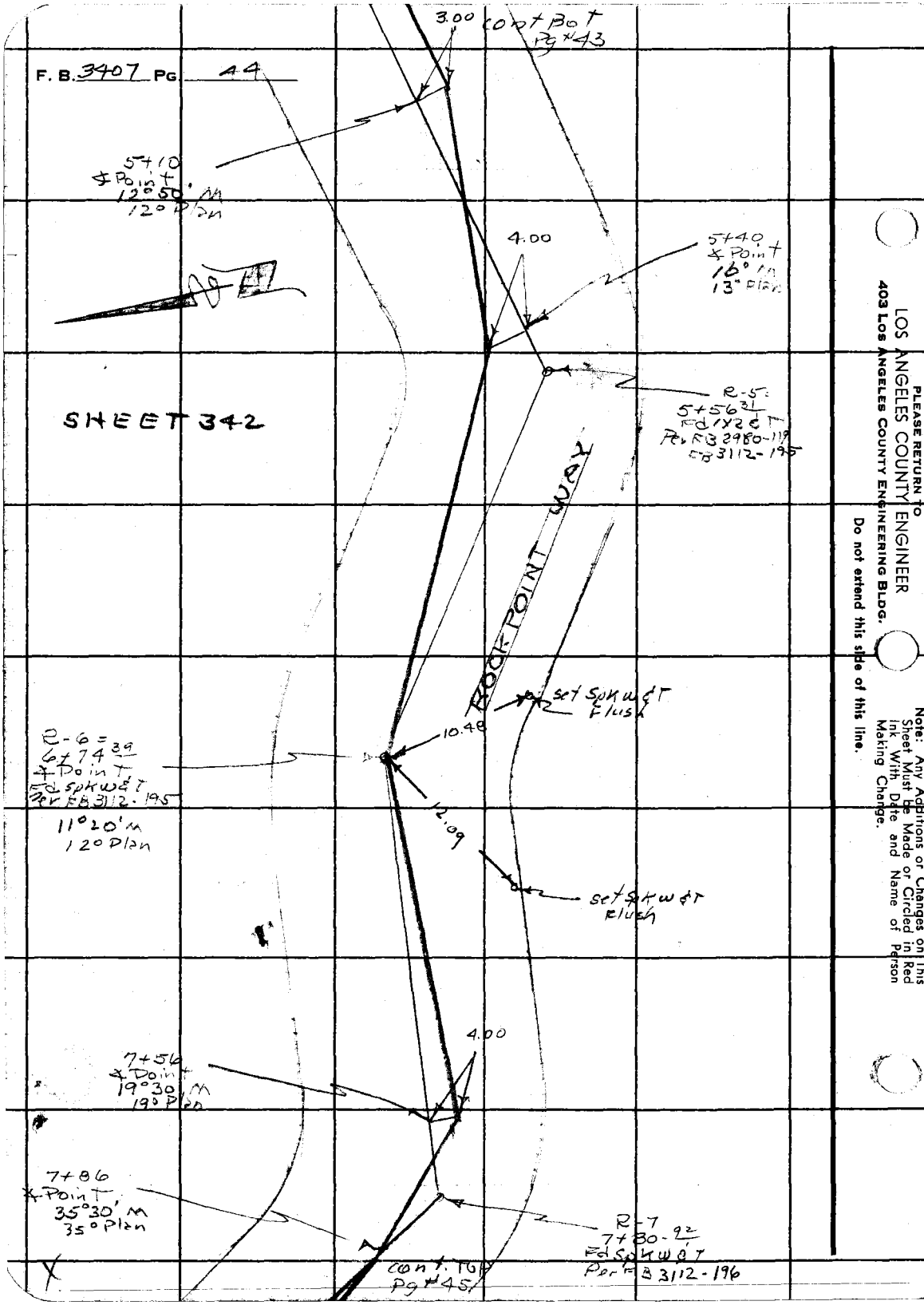
PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F309S CE # 310 3-61

F. B. 3407 PG 44



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403 Los Angeles County Engineering Bldg.
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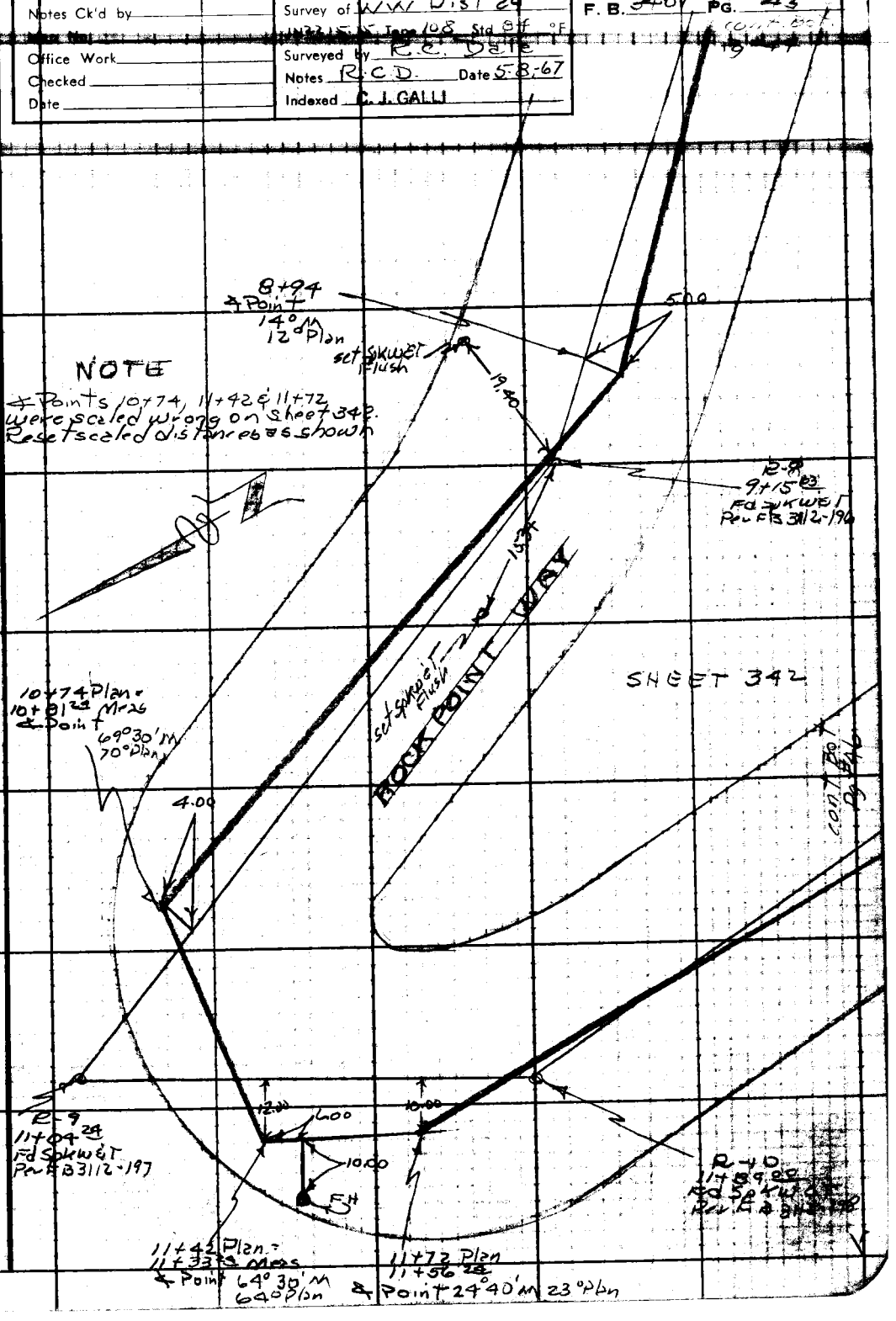
Notes Ck'd by	Survey of WW Dist 29
Map No.	IN 22 15 15 Tape 108 Std 84 °F
Office Work	Surveyed by R.C. Date
Checked	Notes R.C.D. Date 5-8-67
Date	Indexed C. J. GALLI

F. B. 3407 PG. 45



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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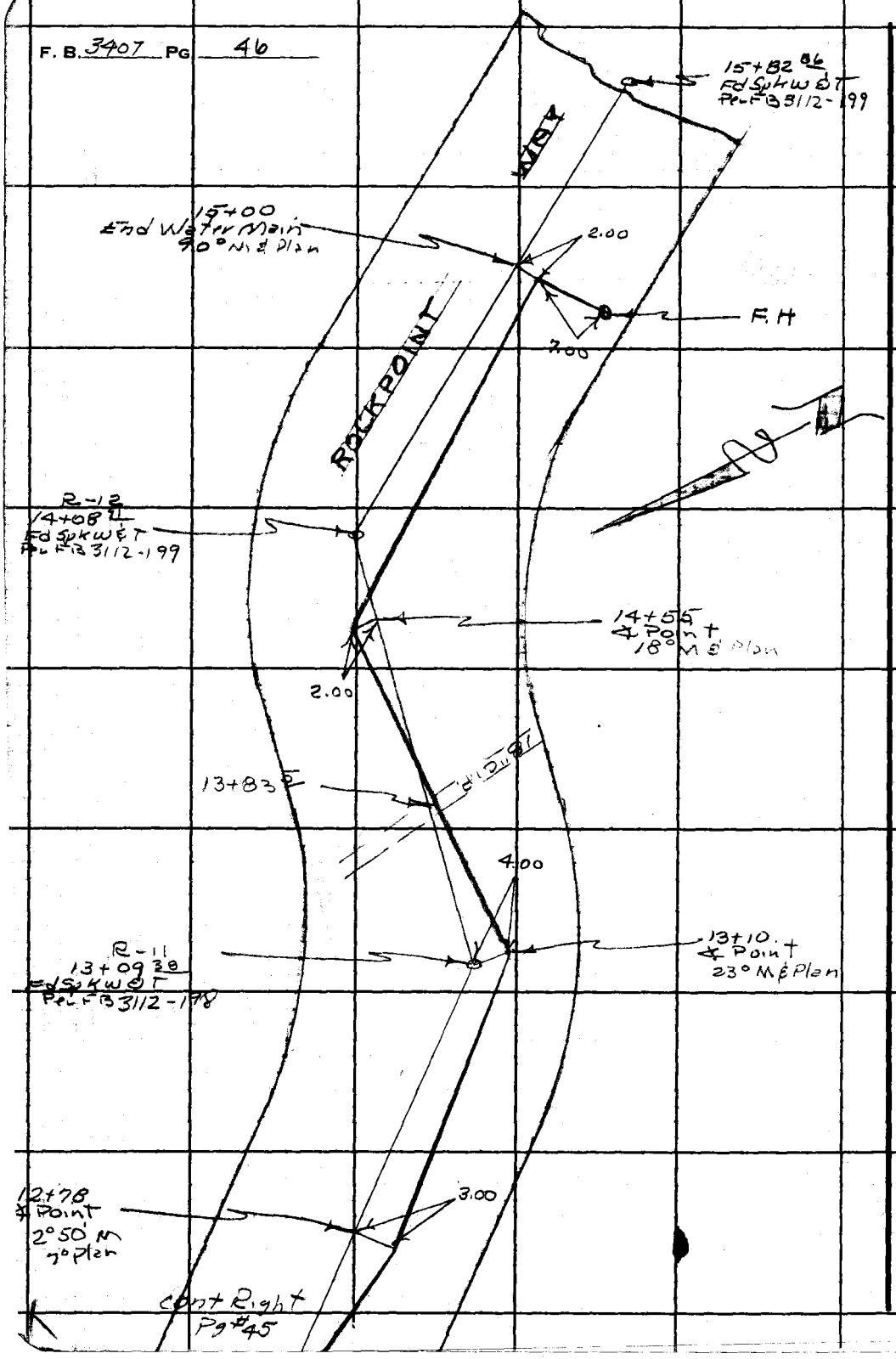
403 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend this side of this line.

76F3095 CE #310 6-62

F. B. 3407 PG 46



LOS ANGELES COUNTY ENGINEER
403 Los Angeles County Engineering Bldg.
PLEASE RETURN TO
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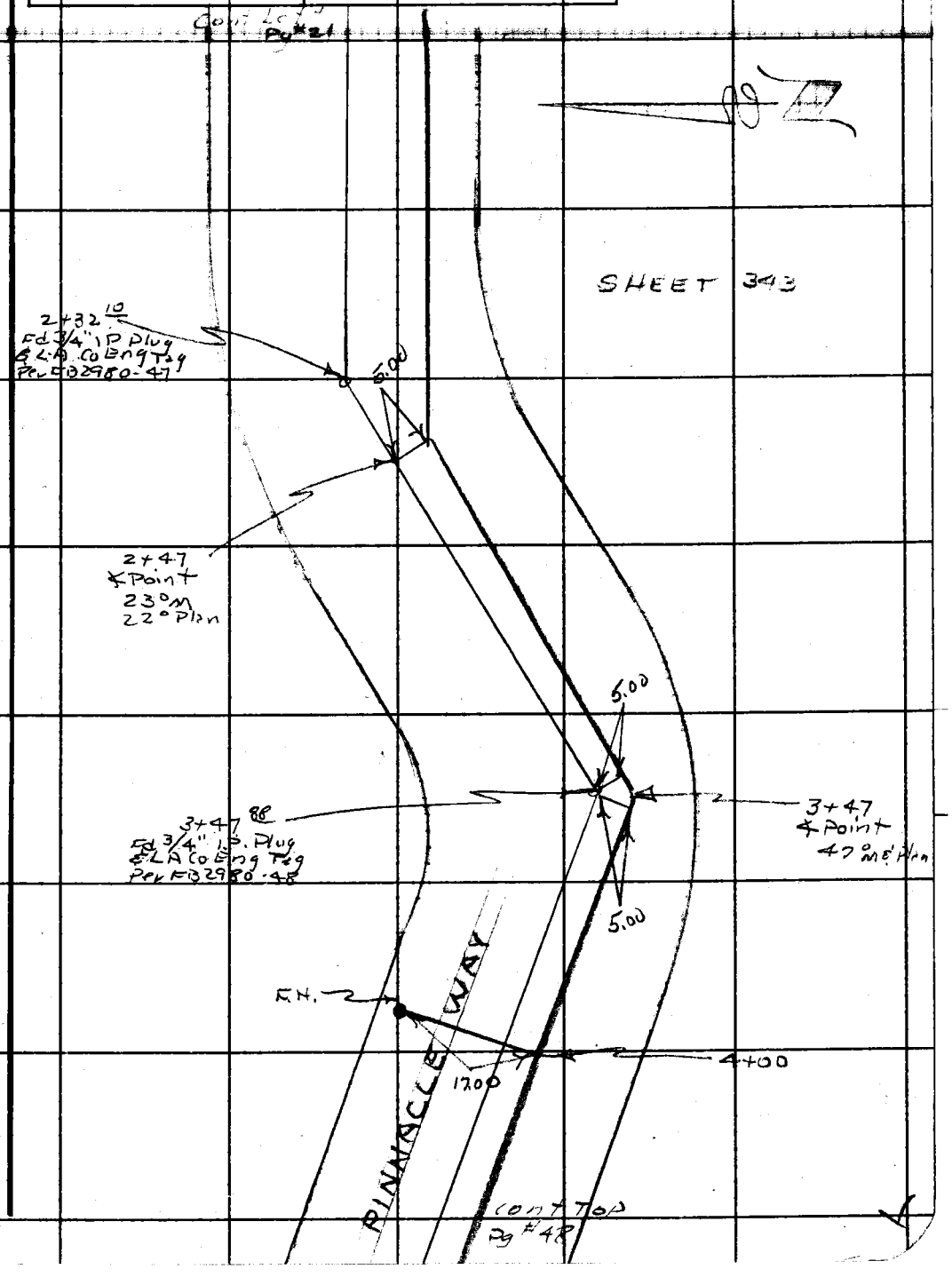
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Notes Ck'd by	Survey of [illegible] Dist #29	F. B. 3407 PG. [illegible]
Map No.	[illegible]	
Office Work	Surveyed by RCDale	
Checked	Notes RCD Date 5-8-67	
Date	Indexed C. J. GALLI	



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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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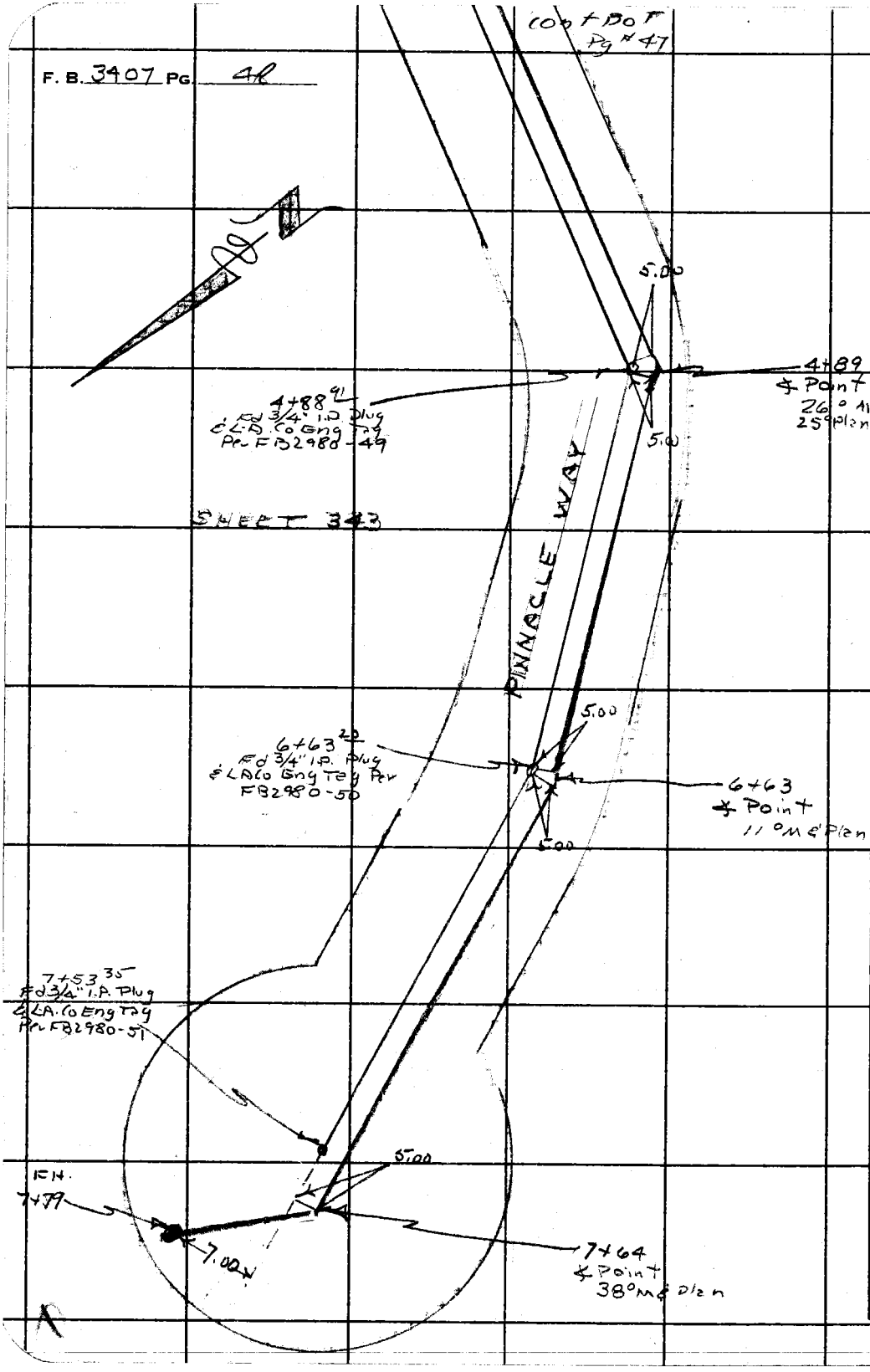
76F309S CE # 310 3-61

F. B. 3407 PG. 4R



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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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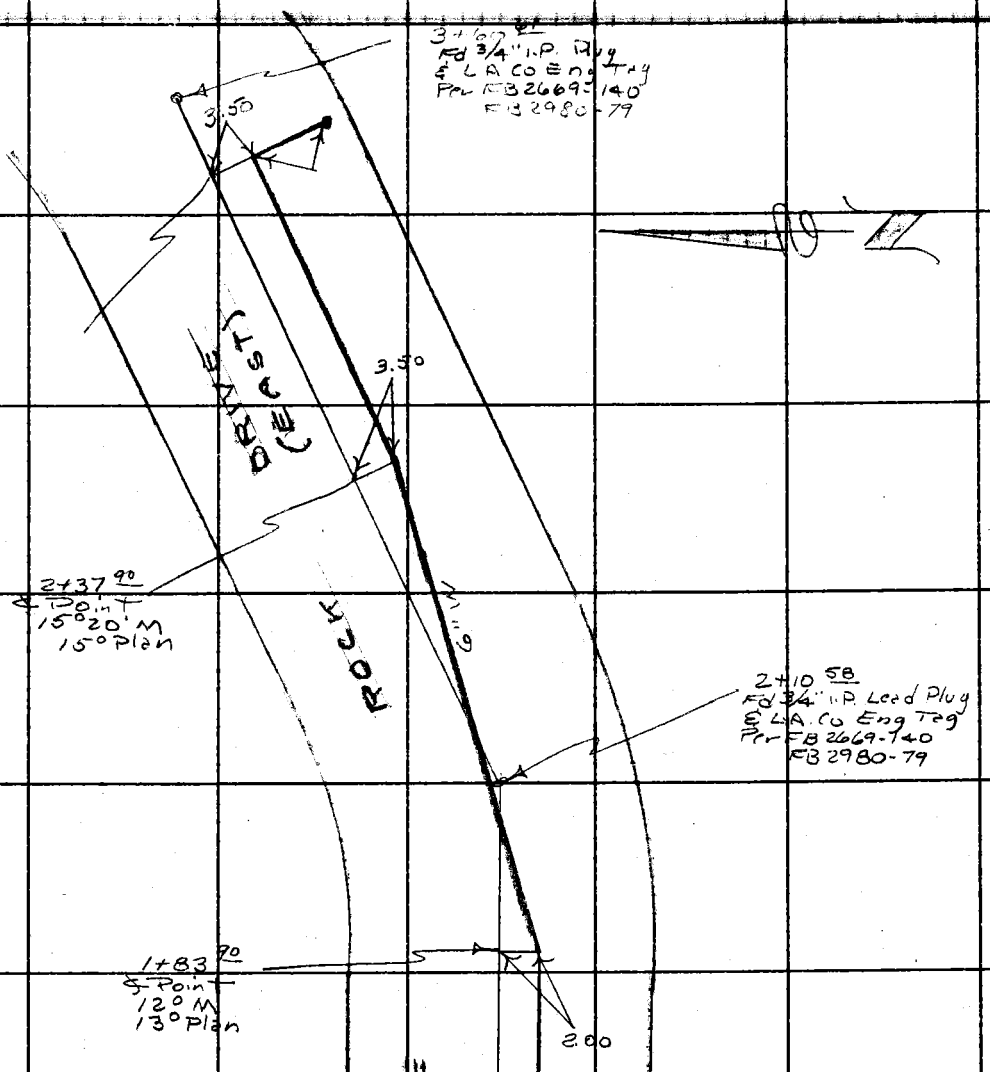
Notes Ck'd by	Survey of N.W. Dist #29	F. B. 3407 PG. 49
Map No.	JN 2215.15 Tape 100 Std. B.H. °F	
Office Work	Surveyed by E.C. Dale	
Checked	Notes R.C.D. Date 5-10-67	
Date	Indexed C. J. GALLI	



Cont Right
Pg #82

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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PLEASE RETURN TO
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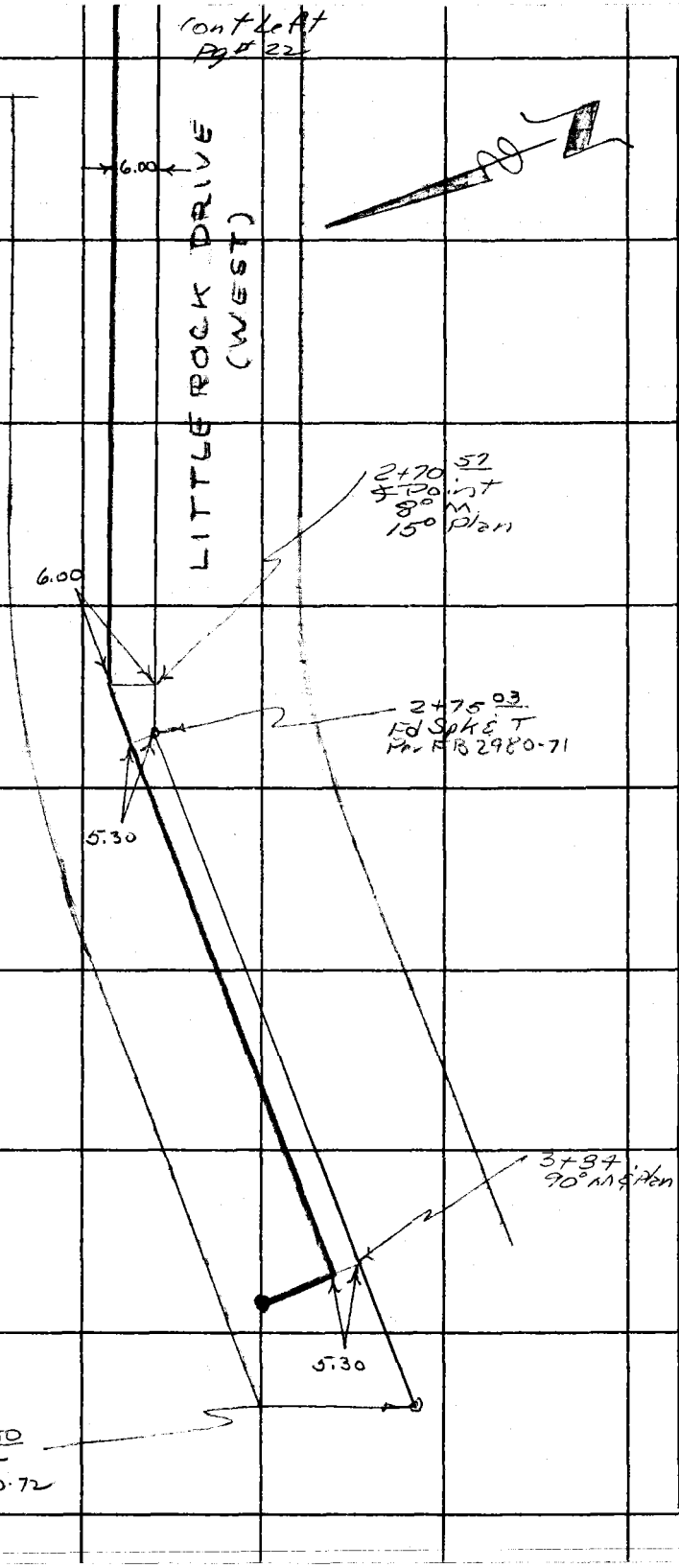
403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F3095 CE # 310 3-61

Cont left
Pg # 22

F. B. 3407 PG. 50



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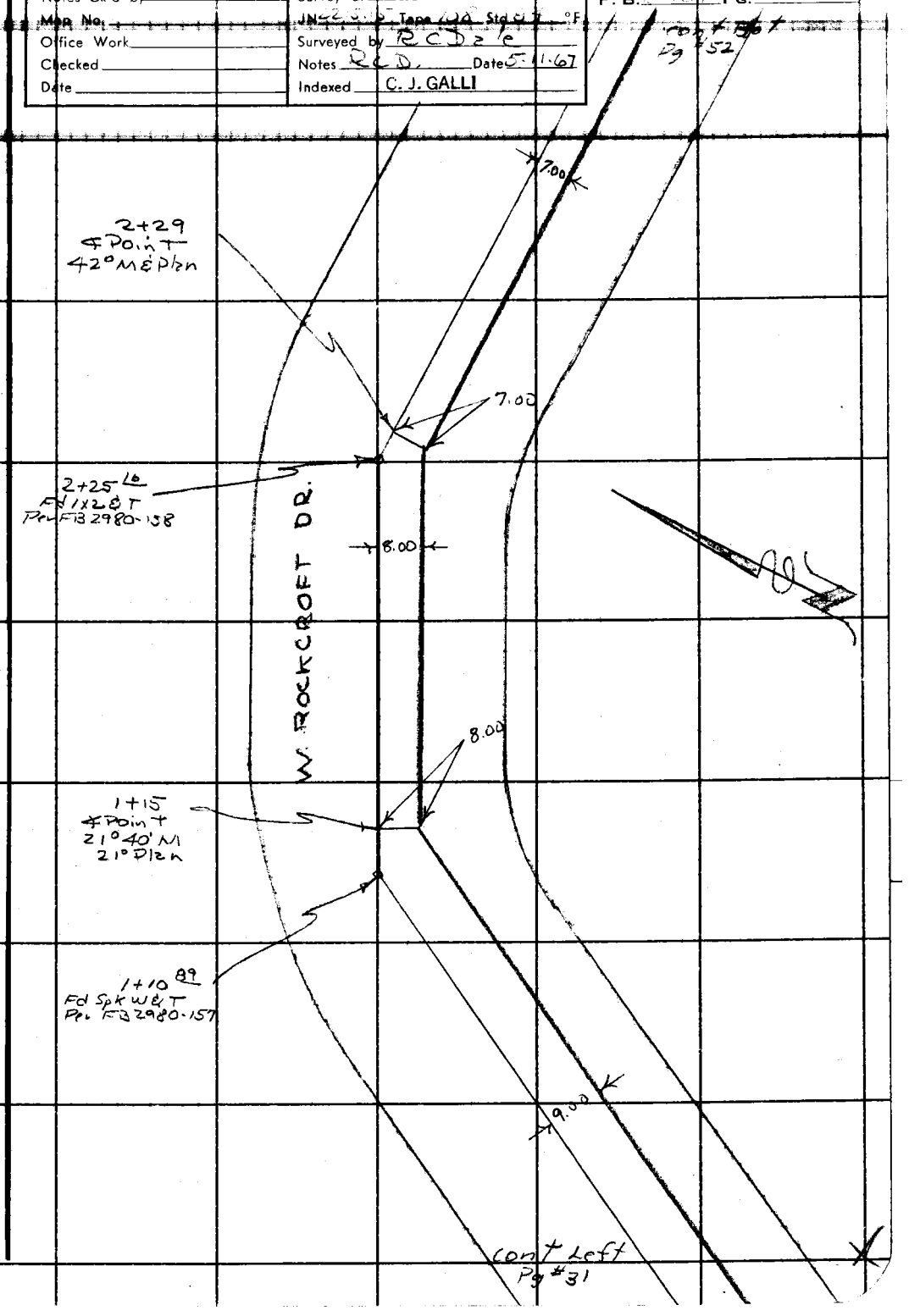
Note: Any Additions or Changes on This Sheet Must Be Made or Circled in Red Ink With Date and Name of Person Making Change.

Notes Ck'd by	Survey of [illegible] Dist #29	F. B. 3407 PG. 51
Map No.	JN [illegible] Tape [illegible] Std [illegible] °F	
Office Work	Surveyed by R C Dale	
Checked	Notes R C D. Date 5.11.67	
Date	Indexed C. J. GALLI	



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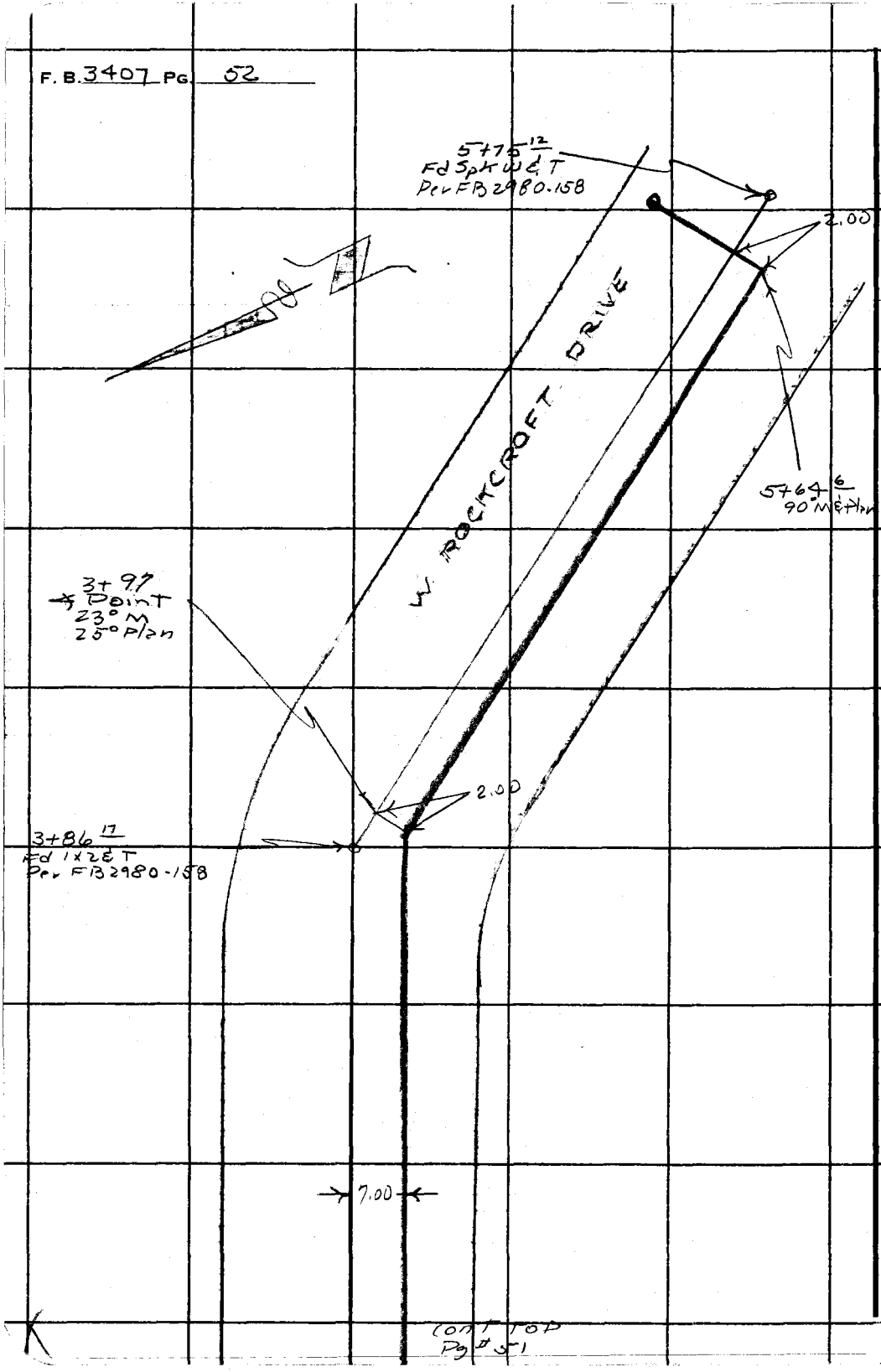
403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F309S CE # 310 3-61

F. B. 3407 PG. 52



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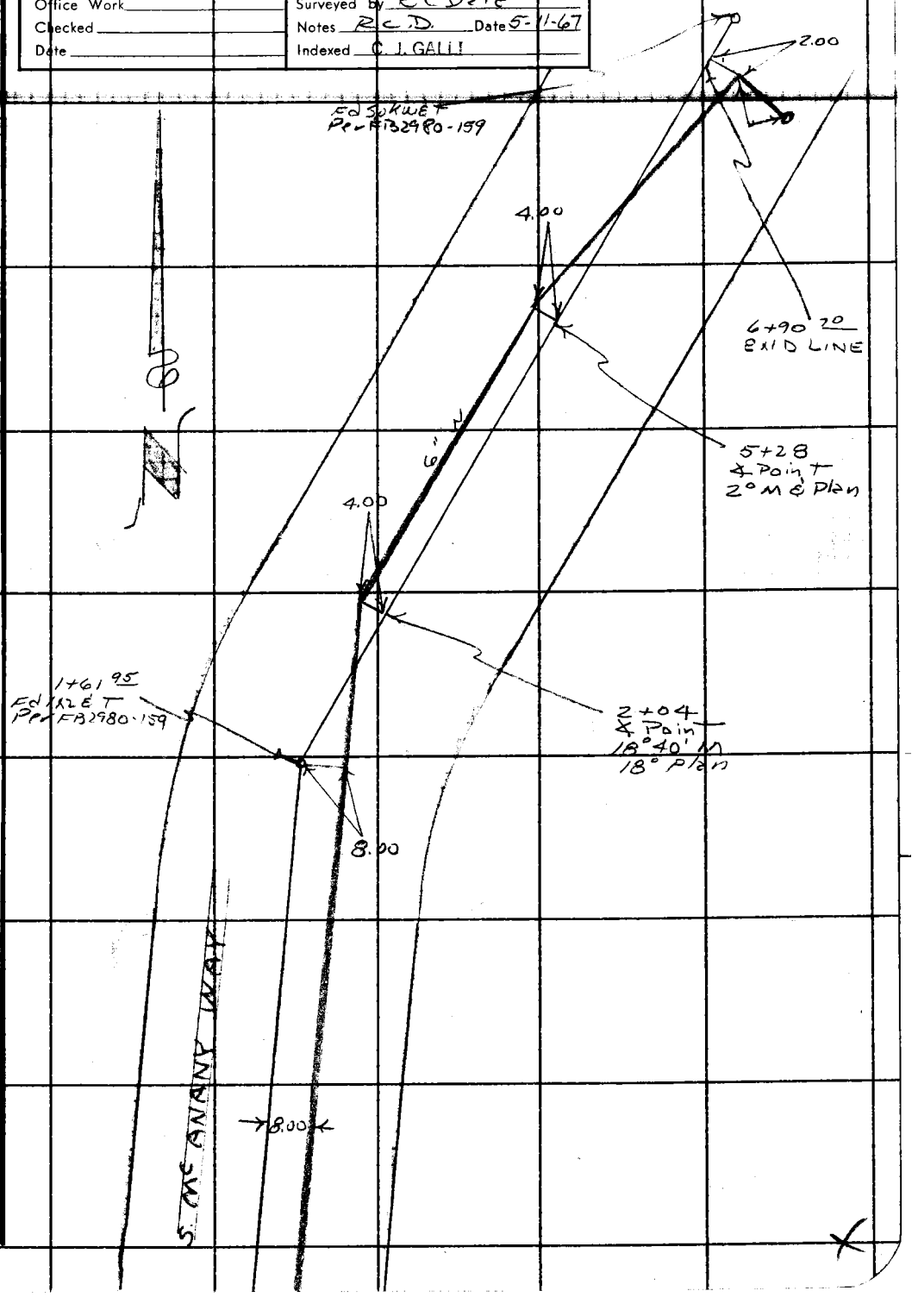
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Cont TOP Pg # 51

Notes Ck'd by	Survey of W/W Dist #29	F. B. 3407 PG. 53
Map No.	JN 22.15.15 Tape 105 Std 84 °F	
Office Work	Surveyed by R C Dale	
Checked	Notes R.C.D. Date 5-11-67	
Date	Indexed C. J. GALLI	



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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PLEASE RETURN TO
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403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F309S CE # 310 3-61

F. B. 3407 PG. 54

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403 Los Angeles County Engineering Bldg.

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Notes Ck'd by	Survey of [illegible]	F. B. [illegible] PG. [illegible]
Map No.	JN 2215.15 Tape 105 Std 86	
Office Work	Surveyed by R. C. Dale	
Checked	Notes R.C.D. Date 5-11-67	
Date	Indexed C. J. GALLI SEP 15 '67	

LOWER BIG ROCK PUMPING STATION

JN 2215.15

MAY 11 1967

REF	PARTY
FB 3407 -	R C DALE
FB 2980 -	J. P. McCALL
SHEETS 514	B. R. JACKSON
	L. L. FISHER

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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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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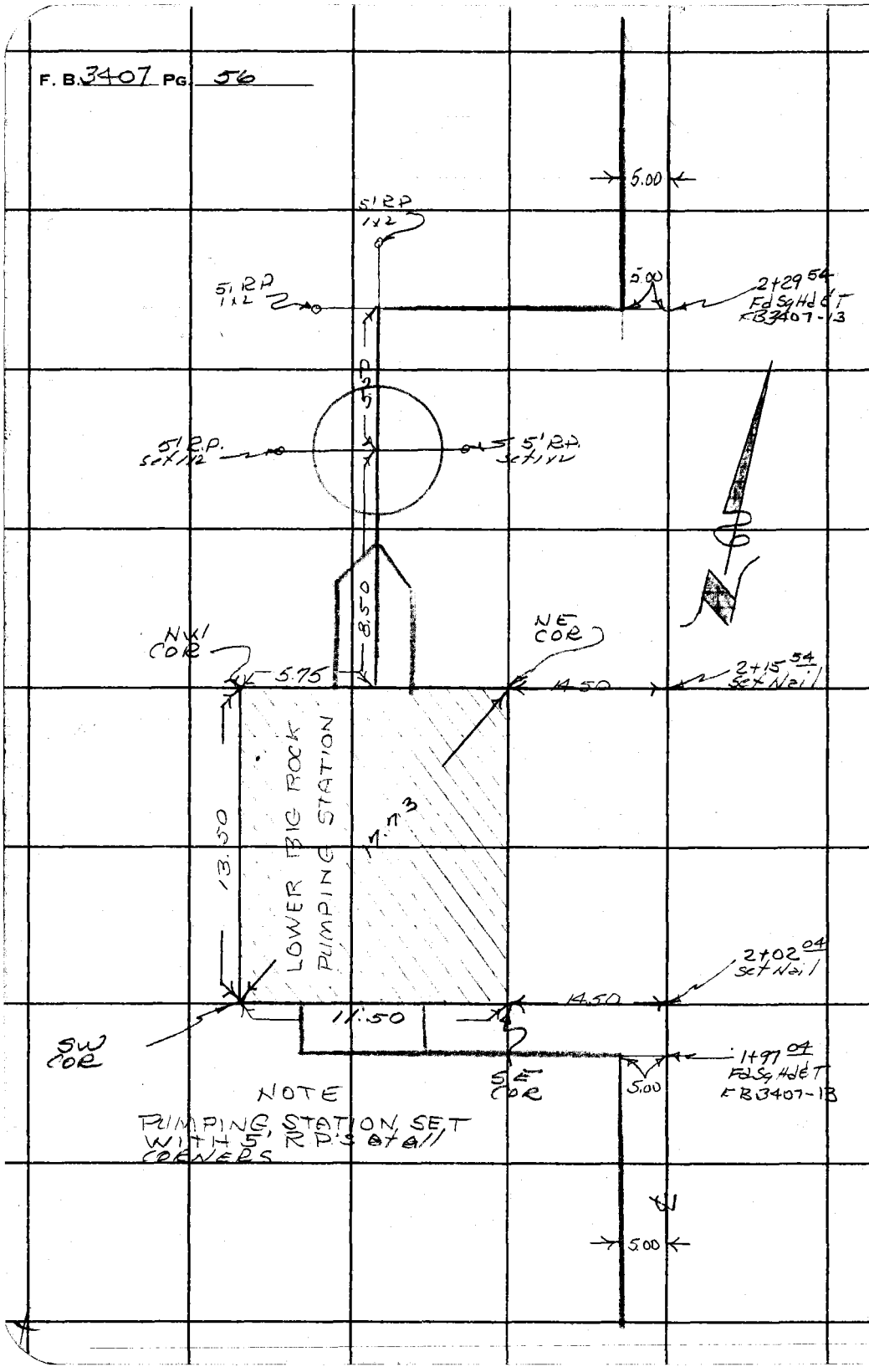
76F309S CE # 310 3-61

F. B. 3407 PG. 56



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403 Los Angeles County Engineering Bldg.
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Profile No.	Notes Red	Plotted	Job No. 2215.15	Division No.	F. B. 3407 PG. 57
	Date	Date	Survey of W.W. DIST. #29 (BIG ROCK)		
X-Sec. No.	Notes Chkd.	Checked	Survey by R.C. DALE	Notes McCALL	Date [illegible]
	Date	Date	Map No.	Indexed C. J. GALLI	Date [illegible]

W.W. DIST. No. 29

2215.15

LOWER BIG ROCK PUMPING STATION

CUTS

TO FLOOR ELEVATION

MAY 12, 1967

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

DALE
McCALL
JACKSON
FISHER

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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76-L298 CE 307 3-61

76-L298 CE 307 3-61

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Do not extend notes this side of this line.

STATION	B.S.	H.I.	F.S.	ELEV.	LOWER BIG ROCK PUMPING STATION
(FD) B.M. W-16	11.13	195.30		184.17	(FD) B.M. W-16 EL= 184.168 F.B. 2980-194
T.P.	11.95	205.19	2.06	193.24	BIG ROCK DR. & ROCK PORT WAY, N.W. COR.
T.P.	2.92	208.06	0.05	205.14	4 FT W. of P.P. # 1112250 E. A. STD. PRE-CAST
					B.M. MON.

STATION	B.S.	H.I.	F.S.	ELEV.	GRADE	CUT/FILL	DISCRIPTION
1X2&T (5)			0.62	207.44	195.00	C-12.44	1X2&T 5 FT E. of S.E. COR.
" (T.P.)	5.29	208.91	4.44	203.62		C-8.62	1X2&T 5 FT S. of S.E. COR.
"			0.23	208.68		C-13.68	1X2&T 5 FT E. of N.E. COR.
"			0.79	208.12		C-13.12	1X2&T 5 FT N. of N.E. COR.
"			11.93	196.98		C-1.98	1X2&T 5 FT W of N.W COR.
" (T.P.)	2.14	202.25	8.80	200.11		C-5.11	1X2&T 5 FT N of N.W COR.
"			7.00	195.25		C-0.25	1X2&T 5 FT S of S.W COR.
" (T.P.)	10.44	204.61	8.08	194.17		F-0.83	1X2&T 5 FT W of S.W COR.
T.P.	0.10	198.34	6.37	198.24			
T.P.	3.19	191.98	9.55	188.79			
B.M. W-16			7.80	184.18	B.M. W-16 EL= 184.168 (SEE ABOVE)		

GRADE = 195.00 FLOOR ELEV. TOP CONC. PER SHEETS
514-515 A-A, B-B

F.B. 3407 Pg. 58 Job No. 2215.15 Division No. Notes Red Plotted Profile
Survey of W.W. DIST. # 29 (BIG ROCK) Date Date No.
Survey by R.C. DALE Notes J.P. McCALL Notes Chkd. Checked X-Sec.
Indexed C.J. GALLI Date Date Date No.

Notes Ck'd by	Survey of [illegible] Dist #29	F. B. 3407 Pg. 59
Map No.	JN2215.15 Tape 100 Std Ft °F	
Office Work	Surveyed by R.C. Dale	
Checked	Notes R.C.D. Date 5-11-67	
Date	Indexed C. J. GALLI	

UPPER BIG ROCK PUMPING STATION

JN 2215.15

MAY 11 1967

REF

FB 3407-27
FB 2980-133
SHEETS-518-519

PARTY

R C DALE
J D McCALL
B.R. JACKSON
L.L. FISHER

X

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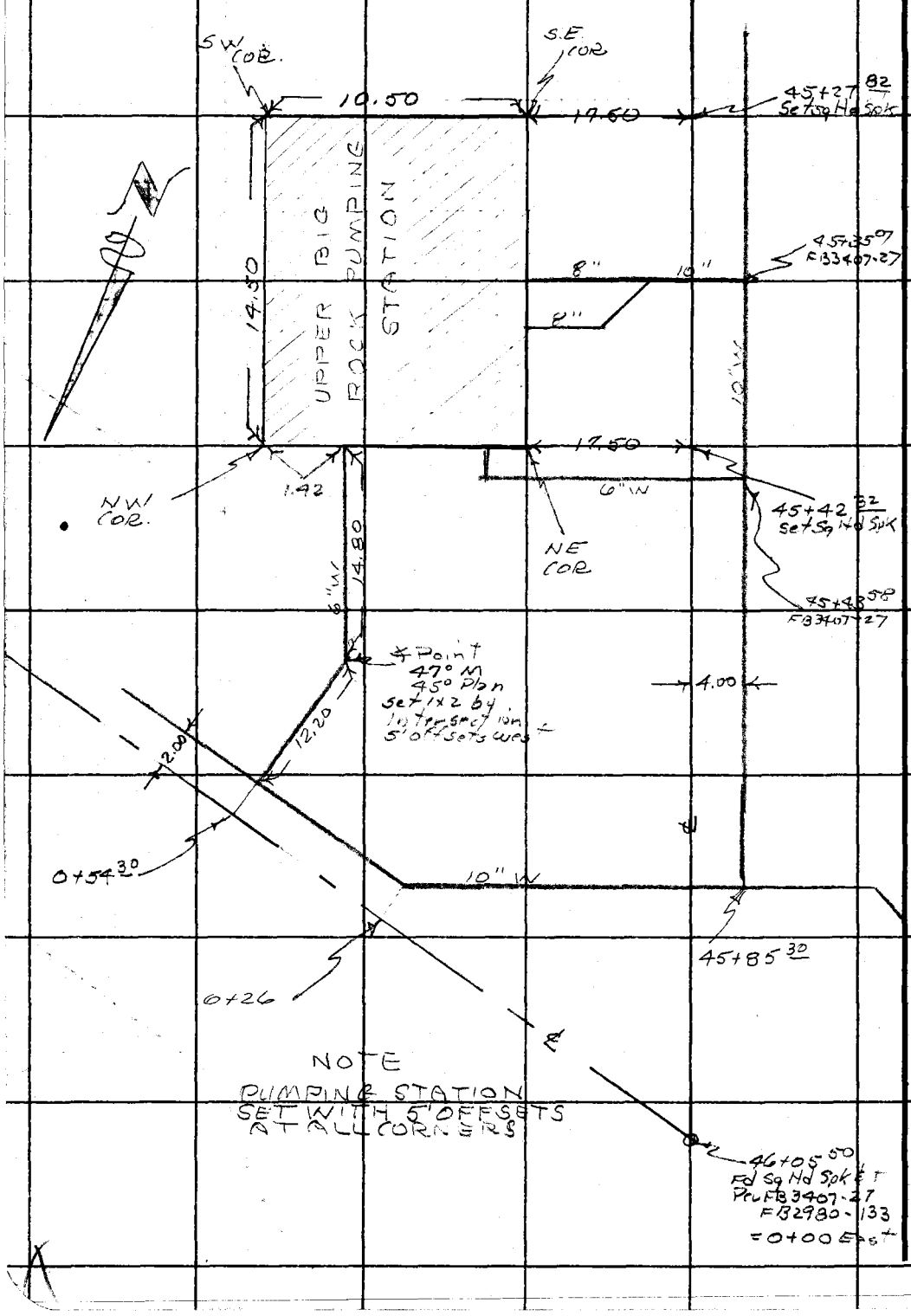
403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F3095 CE # 310 3-61

F. B. 3407 PG. 60



PLEASE RETURN TO
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403 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.

Profile	Notes Red	Plotted	Job No. 2215.15	Division No.	F.B. 3407	PG. 61
No.	Date	Date	Survey of W.W. DIST. #29 (BIG ROCK)			
X-Sec.	Notes Chkd.	Checked	Survey by R.C. DALE	Notes McCALL	Date 5-12-67	
No.	Date	Date	Map No.	Indexed C.J. GALLI	Date	

W. W. DIST. #29

2215.15

UPPER BIG ROCK PUMPING STATION

CUTS

TO FLOOR ELEV.

MAY 12, 1967

35 30
42 32
43

STATION	B.S.	H.I.	F.S.	ELEV.
		DALE McCALL JACKSON FISHER		

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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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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76-L298 CE 307 3-61

76-L298 CE 307 3-61

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Do not extend notes this side of this line.

UPPER BIG ROCK PUMPING STATION

STATION	B.S.	H.I.	F.S.	ELEV.	GRADE	CUT/FILL	DISCRIPTION
B.M. W-14	0.05	751.53		751.48			B.M. W-14 ELEV = 751.48 (UNADJ.)
T.P.	9.98	750.32	11.19	740.34			F.B. 2669-209, BIG ROCK DR. & COOL OAK WAY, N.W. COR. 5' W. OF P.P. # 183507 A. STD. PRECAST B.M. MON STMPD. W-14,
SPK & TIN			11.19	739.13	730.00	C-9.13	SPK & T 5 FT S. of S.W. COR
SPK W. & "			7.79	742.53		C-12.53	SPK W. & T 5 FT W. of S.W. COR
1X1 & TIN			3.02	747.30		C-17.30	1X1 & T 5 FT W. of N.W. COR
1X2 & TIN			0.17	750.15		C-20.15	1X2 & T 5 FT N. of N.W. COR
1X1 & TIN			3.29	747.03		C-17.03	1X1 & T 5 FT N of N.E. COR
1X2 & TIN			5.75	744.57		C-14.57	1X2 & T 5 FT E. of N.E. COR
SPK W. & T			12.38	737.94		C-7.94	SPK. W & T 5 FT E of S.E. COR.
SPK & T.			12.30	738.02	730.00	C-8.02	SPK & T 5 FT S. of S.E. COR.
T.P.	5.36	752.65	3.03	747.29			
B.M. W-14			1.17	751.48		B.M. W-14 (SEE ABOVE)	

NOTE:
GRADES = 730.00 FLOOR ELEV, TOP CONC. PER SHEETS
518 & 519 SEC A-A

Profile ____ Plotted ____ Date ____ No. ____ X-Sec. ____ Date ____ No. ____ Date ____

Notes Red ____ Date ____ Notes Chkd. ____ Date ____

Job No. 22151 Division No. ____

Survey of W.W. DIST # 29 (BIG ROCK)

Survey by R.S. DALE Notes J. P. McSCALL

Indexed C. J. GALLI Date ____

F.B. 3407 Pg. 62

Profile	Notes Red	Plotted	Job No. 2215.15	Division No.	F. B. 3407	Pg. 63
No.	Date	Date	Survey of WW DIST 29			
X-Sec.	Notes Chkd.	Checked	Survey by [illegible]	Notes [illegible]	Date	
No.	Date	Date	Map No.	Indexed C. J. CALLI	Date	

WW DIST #29
2215.15

UPPER BIG ROCK PUMPING STATION

GRADES ON RE-STAKING

MAY 1967

GRADES TO BOTTOM OF CONCRETE

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

DALE
MC CALL
JACKSON
FISHER

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PLEASE RETURN TO
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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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76-L298 CE 307 3-61

76-L298 CE 307 3-61

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403 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.			
BM W-14	1.66	753.14		751 48	BM W-14 Elev = 751.481 FB2930-150 Big Rock Dr & Cool Oak Way. NE Cor 5' W of P.P. 18350Y Precast Mon up 3"		
TD	1.36	744 75	9 75	743.39	GRADE	CUT	
W R.P. NW COR			4.40	740 35	729.00	C-11.35	spk&T 5' off
N. R.P. NW COR			2 53	742 22		C-13.22	1x2 5' off
E.R.P. NE COR			3 39	741 36		C-12.36	spk&T 2' off
E R P SE COR			4 37	740 38		C-11.38	Spk&T 2 off
S R P. SW COR			6.93	737 82	Grade	C-8.82	spk W&T 5' off
W R P SW COR			6 74	738 01	WEST	C-9.01	spk&T 5' off
TD.	10 05	753 44	1.36	743 39			
BM W-14			1.96	751 48		BM W-14	Elev = 751.48 see above

GRADE = 729.00 Floor Elev Bot. Conc
Sheets 518 & 519 Sec A-A

F.B. 3407 Pg. 64
Job No. 22 15.15 Division No. Notes Red Plotted Profile
Survey of W.W. Dist 29 Date No. X-Sec.
Survey by R C Dale Notes RCD Notes Chkd. Checked
Indexed C. J. GALLI Date Date No.

F. B. 3407 PG. 65

Profile No. ____ Notes Red ____ Date ____ Plotted ____ Date ____ Job No. 2215.15 Division No. ____
Survey of W W Dist 29
X-Sec. No. ____ Notes Chkd ____ Date ____ Checked ____ Date ____ Survey by [illegible] Notes [illegible] Date [illegible]
Map No. ____ Indexed C. J. [illegible] Date ____

LOWER BIG ROCK PUMPING STATION

GRADES ON RESTAKING

W W DIST #29

2215.15

JUNE 1967

GRADES TO FINISH FLOOR

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

DALE
ALMANZAN
NEVAREZ
FISHER

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76-L298 CE 307 3-61

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195.00

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F.B. 3407 Pg. 66 Job No. 22515 Division No. ____ Notes Red ____ Plotted ____ Profile ____
Survey of W.W. Dist 29 Date ____ Date ____ No. ____ X-Sec. ____
Survey by R.S. Park Notes R.L.D. Notes Chkd. ____ Checked ____ No. ____
Indexed C.J. Gatt Date ____ Date ____

STATION	B.S.	H.I.	F.S.	ELEV.	GRADE	Cut/Fill	Description
BM W-16	10 87	195.04		184.17	BM W-16 ELV=184168 Ref FB 2980-194 Big Rock Dr. & Rockport Way NW COR 4" west of PP 11/2250E. A std Rclast BM Mon.		
T.P.	9.35	203.83	0 56	194 48			
1x2 & T (2)	8 56	204.25	8 14	195.69	195.00	C0 69	1x2 & T 2' S SW COR
1x2 & T (2)			8 49	195.76		C-0 76	1x2 & T 2' W SW COR
1x2 & T (2)			7 22	197 03		C-2 03	1x2 & T 2' W NW COR
1x2 & T (2)			8 26	195 99		C-0 99	1x2 & T 2' N NW COR
1x2 & T (2)			6.94	197 33		C-2 33	1x2 & T 2' N NE COR
1x2 & T (2)			8.55	195 70		C-0 70	1x2 & T 2' E NE COR
1x2 & T (2)			9.47	194 78		F-0 22	1x2 & T 2' E SE COR
1x2 & T (2)			9.52	194 73		F-0 27	1x2 & T 2' S SE COR
Top Pump Base			8.69	195 56	195.47	C-0 09	Top Pump Base
T.P.	0.15	202.50	1.90	202.35			
T.P.	1 86	192 20	12.16	190.34			
BM W-16			8 07	184.13			

195.69

Profile No. ____ Notes Red ____ Date ____ Plotted ____ Date ____ Job No. 22-15 Division No. 11 F.B. 3407 Pg. 67

Survey of Big Rock Pump Station

~~X-Sec.~~ No. ____ ~~Notes Chkd~~ Date ____ ~~Checked~~ Date ____ ~~Survey by~~ ____ Notes ____ Date 9-13-67

Map No. ____ Indexed C. J. GALLI Date ____

W. W. DIST. # 29

JN 22 15.15

UPPER BIG ROCK PUMP STATION

"X" SECTIONS OF EXISTING PUMP SITE "UNDER CONST."

STATION	B.S.	H.I.	F.S.	ELEV.
			9-13-67	
			LIND STRADER	
			SWANN FISHER	

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STATION	B.S.	H.I.	F.S.	ELEV.		
BM W-14	1 88	753 36		751 48	BM W-14. EL= 751.48 UNADJ. PER FB. 3407 - 62	
45+20			16 0	737 4		℄ Big Rock Dr
			15 8	737 5	SEE PAGE 60	15 3 RT. Toe Slope
			9 8	743 6		25 6 RT. Brk
			7 5	745 9	FOR CONTROL	34 2 RT. Brk
			+ 1 5	754 9		49 0 RT. Top Bank
45+27 8			6 2	747 2		33 0 RT. Top Cut
			0 1	753 3		46 0 RT. Top Bank
45+42 3			2 8	750 6	TOP BANK	33 0 RT. Top Cut
			2 1	751 3		38 RT.
45+50 3			11 1	742 3		℄ Big Rock Dr
			11 6	741 8		14 0 RT. Toe Slope
			2 0	751 4		33 0 RT. Top Bank
			2 8	750 6		38 0 RT.
BM W-14			1 88	751 48	BM W-14 EL= 751.48 UNADJ. PER FB. 3407 - 62	

F.B. 3407 Pg. 68
Job No. 2215.15 Division No. 11 Notes Red Plotted Profile
Survey of Upper Big Rock Pump Sta Date Date No.
Survey by Lind Notes Chkd. Checked X-Sec.
Indexed C. J. GALLI Date Date No.

F.B. 3407 PG. 69

Profile No. ____ Notes Red ____ Date ____ Plotted ____ Date 9-28-67 Job No. 2215.15 Division No. ____
Survey of WW #29
X-Sec. No. ____ Notes Chkd. ____ Date ____ Checked ____ Date ____ Survey by [illegible] Notes [illegible] Date ____
Map No. ____ Indexed ____ Date ____

LOWER BIG ROCK PUMPING STATION

JN. 2215.15

GRADES FOR WALK & RETAINING WALL

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

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STATION	B. S.	H. I.	F. S.	ELEV.	LENKER ROD USED	
BM W-16				184.17	BM W-16	El = 184.17
T.P				193.00	A Std Precast Man	up 3"
TP				202.38	4' W of P.P. #1112250E	
				202.93	(10') E edge of Walk (So End) C-1.93	
					GRADE = 201.0	
				205.43	(10') E edge of Walk (End of Retaining Wall) C-6.73	
					GRADE = 198.7	
				202.23	(10') E edge of Walk (No. End) C-6.13	
					GRADE = 196.1	
Pumping Station				204.02	Top of conc slab (Finished floor)	
					S.E. Cor. & S.W. Cor.	

F.B. 3407 Pg. 70 Job No. 22615 Division No. Notes Red Plotted Profile
Survey of WW #29 Date 9-28-67 Date No. X-Sec.
Survey by Vogg Notes Vogg Notes Chkd. Checked No.
Indexed Date Date Date

LAS TUNAS BEA

Notes Ck'd by	Survey of BORROW SITE
Map No.	JN 8762.02 Tape 100 Std 84
Office Work	Surveyed by C.K. LIND
Checked	Notes LIND Date 6-17-7
Date	Indexed T. M. PALMERI 9

J.N. 8762.02

LAS TUNAS BEACH IMPRO

SANTA MONICA MT. BORRO

TRIANGULATION CONTR
FOR
TOPOGRAPHY MAPING OF

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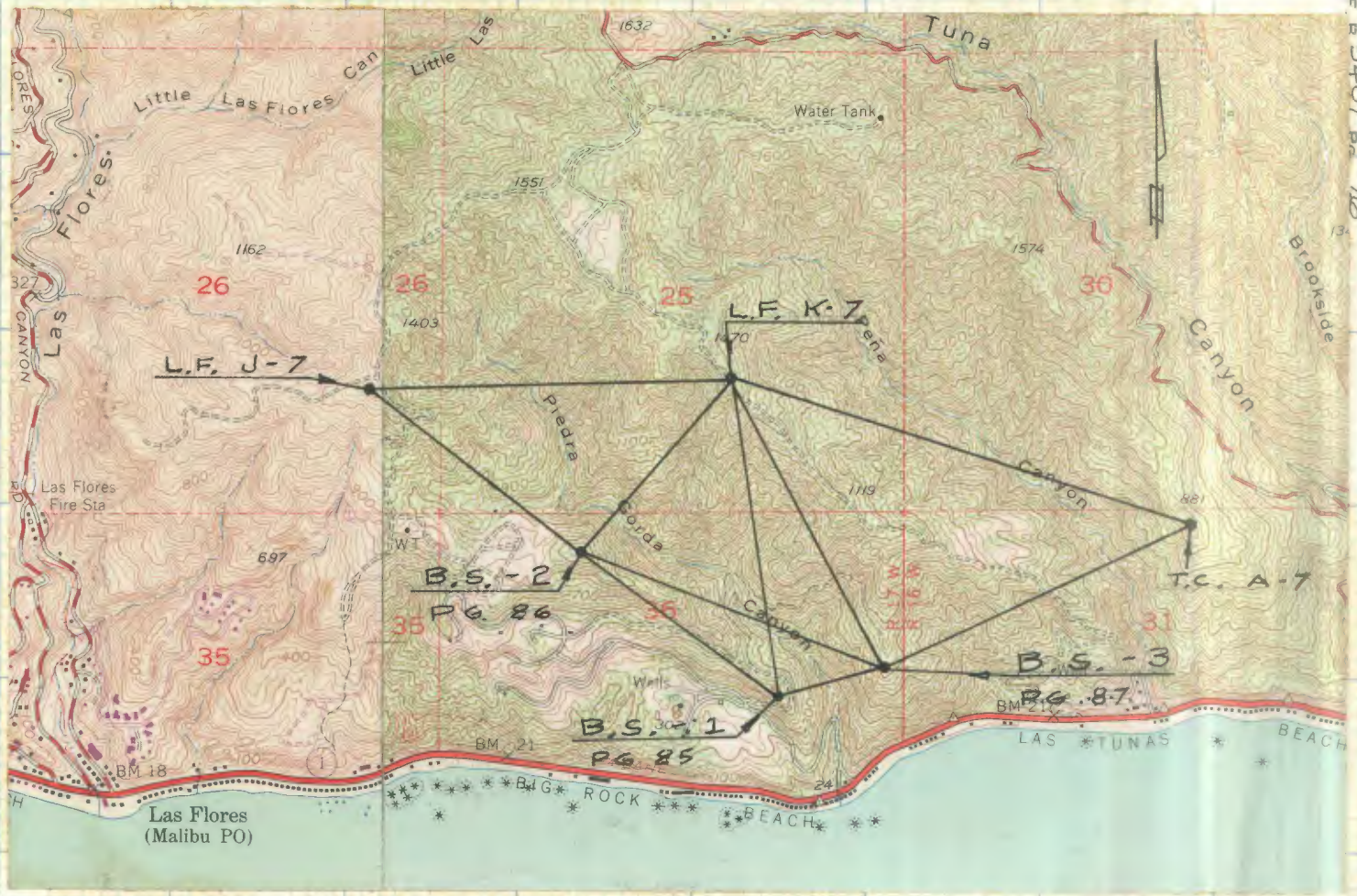
16F309S CE#310 3-68



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F.B. 3407 PG. 76

NOTES RED ____ JOB NO. 2762.02 SURVEY OF S.M. MT. BORROW SITE F. B. 3407 PG. 77
DATE ____ SURVEY BY L.K. LIND
NOTES CHKD. ____ NOTES BY LIND DATE 6-17-71
DATE ____ INDEXED ____ DATE ____

DESCRIPTION	ADJ. ELEV.	3RD RUN	2ND RUN	DIFF.	1ST RUN	B.M.
U.N. 2762.02						
LAS TUNAS BEACH IMPROVEMENT						
SANTA MONICA MT. BORROW SITE						
BENCH LEVELS						
		6-17-71				
			LIND			
			DOVER			
			DIETZ			
			TOLLISON			

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765420 S & E-353 9-55

F. B. 3407 PG. 78

JOB NO. 8762.02 SURVEY OF S.M. MT. BORROW SITE NOTES RED. _____

SURVEY BY LIND DATE _____

NOTES BY LIND DATE 6-17-71 NOTES CHKD. _____

INDEXED _____ DATE _____ DATE _____

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION

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76S420 S & E-353 9-55

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B.M. Found	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
W-14	751.481					BM W-14 EL 751.481
+	1.165		1.251			BIG ROCK ROAD & COL
π	752.646	-10.087	10.089			OAK WAY. N.W. CORNER
-	11.252		11.340			50' WEST OF P.O. #183507
T.P.	741.394					A 3½ PIPE CAST B.M. MAN.
+	0.961		1.090			UP 3" PER F.B. 2669-29
π	742.355	-10.094	10.095			
-	11.055		11.185			
T.P.	731.300					
+	0.423		0.510			
π	731.723	-10.959	10.959			
-	11.382		11.469			
T.P.	720.341					
+	0.218		0.345			
π	720.559	-11.195	11.195			
-	11.413		11.540			
T.P.	709.146					
+	0.877		0.939			
π	710.023	-10.311	10.310			
-	11.188		11.249			
T.P.	698.835					
+	0.358		0.462			
π	699.193	-11.015	11.018			
-	11.373		11.480			
T.P.	687.820					
+	0.681		0.768			
π	688.501	-10.961	10.961			
-	11.642		11.729			
T.P.	676.859					

NOTES RED _____ JOB NO. 87622 SURVEY OF B.M. NT. KOWOWI
DATE _____ SURVEY BY L.J.J. F.B. 2401 PG. 79
NOTES CHKD. 2613 NOTES BY L.J.J. DATE 6-17-71
DATE 7-20-71 INDEXED T.M. PLOTTED DATE _____ BY _____

768420 S & E-353 9-55

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	676859					
+	0805		0873			
π	677664	-10.314	-10.315			
-	11119		11188			
T.P.	666.545					
+	0.701		0585			
π	667246	-10838	-10.830			
-	11539		11415			
T.P.	655.707					
+	1.068		0.682			
π	656.775	-10.627	-10.628			
-	11.695		11.310			
T.P.	645.080					
+	0.775		0.811			
π	645855	-10.713	-10.712			
-	11.488		11523			
T.P.	634.367					
+	0.621		0.527			
π	634.988	-10.879	-10.880			
-	11.500		11.407			
T.P.	623.488					
+	0.336		0.455			
π	623.824	-11.183	-11.182			
-	11.519		11.637			
T.P.	612.305					
+	0.634		0689			
π	612.939	-10.483	-10.481			
-	11.117		11.170			
T.P.	601.822					

JOB NO. 87 SURVEY OF S.M. MT. Barrow SITE NOTES RED.
SURVEY BY Lind DATE
NOTES BY Lind DATE 6-17-71 NOTES CHKD. RGB
INDEXED T. M. PALMERI DATE DATE 7-20-71

F.B. 3407 PG. 80

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
TP	601822					
+	0312		0382			
π	602.134	-11.321	-11.320			
-	11.633		11.702			
T.P.	590.501					
+	0.263		0.301			
π	590.764	-10.802	-10.800			
-	11.065		11.101			
T.P.	579.699					
+	0.320		0.270			
π	580.019	-11.595	-11.594			
-	11.915		11.864			
T.P.	568.104					
+	0649		0.673			
π	568.753	-10.860	-10.859			
-	11.509		11.532			
T.P.	557.244					
+	0.278		0 530			
π	557.522	-10.872	-10.872			
-	11.150		11.402			
T.P.	546.372					
+	0.280		0402			
π	546.652	-10.872	-10.873			
-	11.152		11.275			
Int. T.P.	535.500					
+	2.262		2.123			
π	537.762	-3.430	-3.432			
-	5.692		5555			
T.P.	532.070					

NOTES RED _____ JOB NO. 8762.02 SURVEY OF S.M. Mt. Barrow Site
DATE _____ SURVEY BY Lind
NOTES CHKD. RGB NOTES BY [illegible] DATE 6-17-71
DATE 7-20-71 INDEXED T. M. FALMENT DATE 6-9-71

F. B. 3407 PG. 81

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	532 070					
+	2 762		2982			
π	534 832	+ 1.913'	+ 1.912'			
-	0849		1070			
T.P.	533983					STAKE
+	10925		11.158			
π	544908	+10.533'	+ 10.531'			
-	0392		0.627			
T.P.	544.516					
+	10.873		11.274			
π	555.389	+10.678'	+ 10.680'			
-	0.195		0.594			
T.P.	555.194					
+	11.319		11.444			
π	566.513	+10.703'	+ 10.704'			
-	0.616		0740			
T.P.	565.897					
+	8867		8991			
π	574764	+ 6.565'	+ 6.564'			
-	2302		2427			
T.P.	572462					ROCK
+	11 510		11658			
π	583 972	+10.658'	+10.657'			
-	0852		1001			
T.P.	583120					
+	5383		5.566			
π	588.503	- 0.966'	- 0.968'			
-	6.349		6534			
T.P.	582.154					

F. B. 3407 PG. 82

JOB NO. 8762.02 SURVEY OF S.M. MT. BORROW SITE NOTES RED.
SURVEY BY LIND DATE
NOTES BY LIND DATE 6-17-71 NOTES CHKD. RGB
INDEXED T. M. PALMERI DATE DATE 7-20-71

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.
T.P.	582154				
+	0625		0768		
π	582779	-9.873'	-9.871'		
SET -	10498		10639		
B.S.-4	572281				
+	1572		1.673		
π	573853	-10.103'	-10.103'		
-	11675		11.776		
T.P.	562178				
+	0526		0590		
π	562704	-9.802'	-9.804'		
-	10328		10394		
T.P.	552376				
+	2340		2423		
π	554716	-2.550'	-2.548'		
-	4890		4971		
T.P.	549826				
+	1922		1.932		
π	551748	-7.995'	-7.996'		
-	9917		9.928		
T.P.	541.831				
+	0.887		1.040		
π	542718	-9.125'	-9.185'		
-	10072		10.225		
T.P.	532646				
+	0380		0517		
π	533026	-10.750'	-10.751'		
-	11130		11268		
T.P.	521896				

DESCRIPTION

B.M. B.S.-4
FROM THE INT. OF BIG ROCK DRIVE & LITTLE ROCK WAY, DRIVE EAST 0.05 MI. ALONG LITTLE ROCK WAY TO THE END OF PAVED ROAD. THEN DRIVE ELY. (UP HILL) ALONG DIRT ROAD 0.15 MI. TO A "T" INT. OF DIRT ROADS. B.M. IS APPROX. 20' EAST AND 20' N. OF ℄ INT. OF DIRT ROADS.
STA. MARK A STD. L.E. BRASS CAP MON. STAMPED B.M. B.S.-4 R.E. 70 MON. IS SET 6" ABOVE SURFACE OF THE GROUND

NOTES RED
DATE
NOTES CHKD. 7-20-71
DATE
INDEXED
JOB NO.
SURVEY BY LMB
NOTES BY
SURVEY OF B.M. NT. CHURCH
DATE 6-17-71
DATE
F. B. 3407 PG. 33

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	521.896					
+	0.577		0673			
π	522473	-10.581'	-10.580'			
-	11158		11253			
T.P.	511.315					
+	0.201		0325			
π	511.516	-11.377'	-11.377'			
-	11578		11702			
T.P.	499.938					
+	0.501		0701			
π	500.439	-6.001'	~~-5.999~~	-6.009		
-	6.502		6710			
T.P.	493.937					
+	.2735		3102			
π	496.672	-7.667'	-7.663'			
-	10.402		10765			
B.S. #1	486.270					B.S. #1 A 3/4" CAPPED I.R STAMPED B.S.-1 SEE PAGE 85 FOR DESCRIPTION.

JOB NO. 8762.02 SURVEY OF S.M. MT. BERROW SITE NOTES RED.
SURVEY BY LIND DATE
NOTES BY LIND DATE 6-17-71 NOTES CHKD. RGB
INDEXED T. M. PALMERI DATE 7-20-71

F. B3407 PG. 84

Notes Ck'd by	Survey of S.M. BORROW SITE
Map No.	
Office Work	Surveyed by LIND
Checked	Notes LIND Date 6-16-71
Date	Indexed T. M. PALMERI 9 71

F. B. 3407 PG. 85

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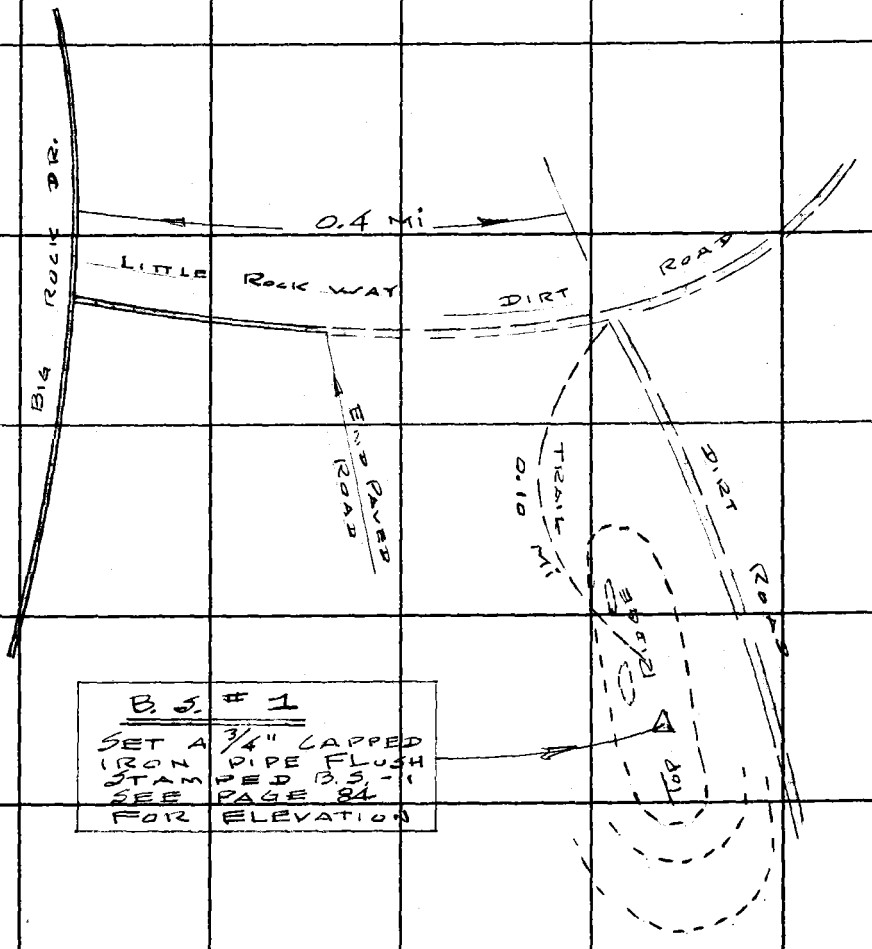
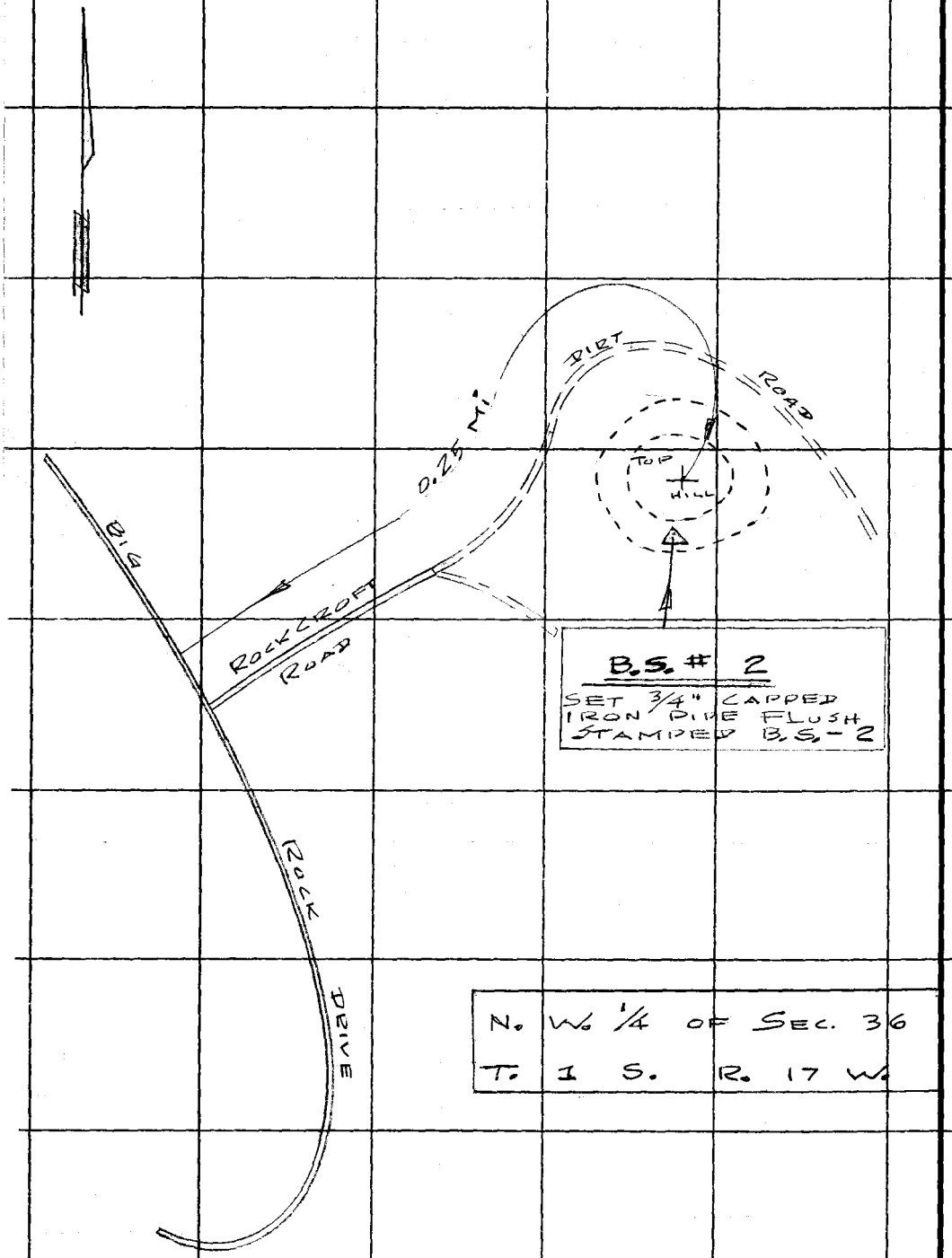


N.E. 1/4 OF SEC. 36

T. 1 S. R. 17 W.

26F309S CE#310 3-68

F. B. 3407 PG. 86



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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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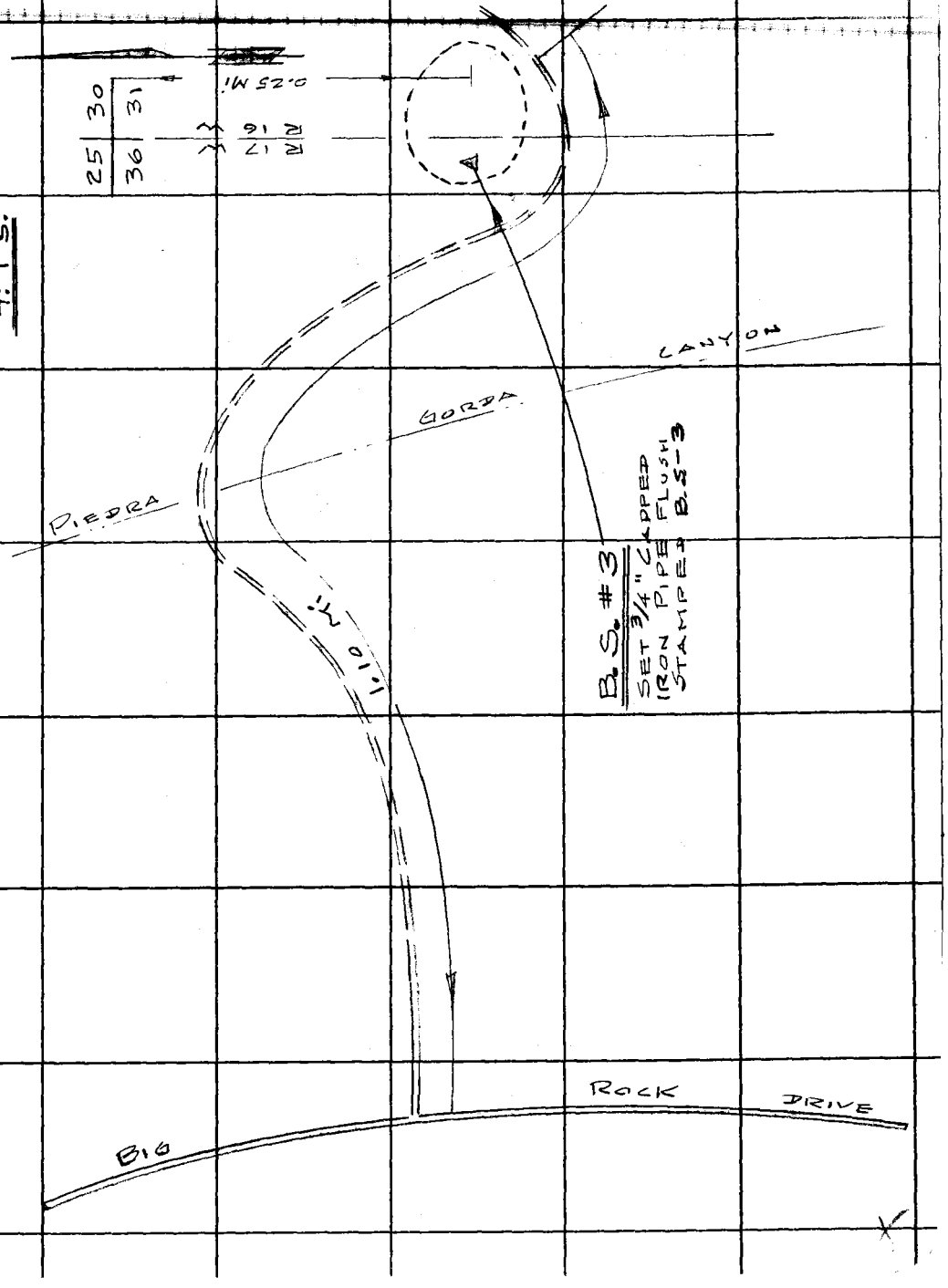
Note: Any Additions or Changes of This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Notes Ck'd by	Survey of S. M. BORROW SITE
Map No.	IN Tape Std. °F
Office Work	Surveyed by LIND
Checked	Notes LIND Date 6-16-71
Date	Indexed T. M. PALMERI JUL 9 '71

F. B. 3407 PG. 87



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6F309S CE#310 3-68

F. B. 3407 PG. 88

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Notes Ck'd by	Survey of Las Tunas Beach Dev.
Map No.	[illegible]
Office Work	Surveyed by English
Checked	Notes Ed Date 1-15-76
Date	Indexed R. D. BAILEY FEB 9 1976

F.B. 3407 PG. 89

LAS TUNAS BEACH
(Phase I Development)

J.N. 6845.01

Sand Borrow Site At Dockweiler Beach.

Cross-Section Control Survey.

Jan. 14, 1976
English
Caro
Stroud
Bradley

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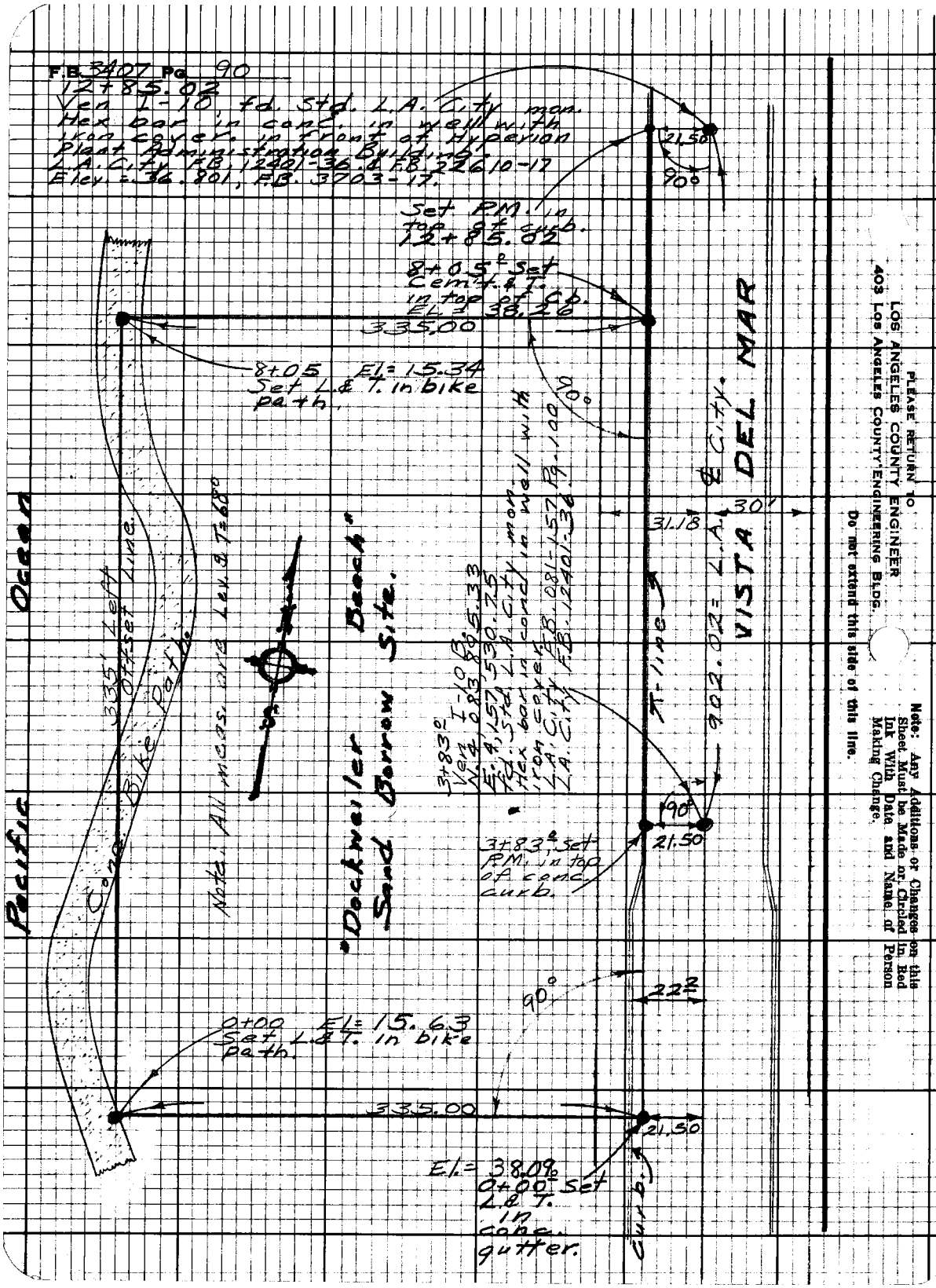
403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F3098 CE#310 9-67


F.B. 3407 Pg. 90
12+85.02
Ven I-10, fd. Std. L.A. City mon.
Hex bar in conc. in well with
iron cover. in front of Hyperion
Plant Administration Building.
L.A. City F.B. 12401-36 & F.B. 22610-17
Elev. = 36.801, F.B. 3703-17.
Set P.M. in top of curb.
12+85.02
8+05 Set Cem't. & T. in top of Cb.
El. = 38.26
335.00
8+05 El. = 15.34
Set L. & T. in bike path.
21.50
90°
90°
VISTA DEL MAR
℄ City.
30'
31.18
902.02 = L.A.
T-line
3+83 Ven I-10 B.
N.4,083,895.33
E.4,157,530.75
fd. Std. L.A. City mon.
Hex bar in conc. in well with
iron cover.
L.A. City F.B. 081-157 Pg. 100
L.A. City F.B. 12401-36
"Dockweiler Beach"
Sand Borrow Site.
Note: All meas. are Lev. & T=68°
335' Left Offset Line.
Conc. Bike Path.
Pacific Ocean
3+83 Set P.M. in top of conc. curb.
90°
21.50
22
90°
0+00 El. = 15.63
Set L. & T. in bike path.
335.00
21.50
El. = 38.09
0+00 Set L. & T. in conc. gutter.
Curb.
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Profile No. ____ Notes Red ____ Date ____ Plotted ____ Date ____ Job No. 6845.01 Division No. 11 Survey of Las Tunas Beach Dev.

F.B. 3407 Pg. 91

X-Sec. No. ____ Notes Chkd ____ Date ____ Checked ____ Date ____ Surveyed by English Notes by English Date 1-15-76

Map No. ____ Index ____ Date FEB 9 1978

A. D. BAILEY

LAS TUNAS BEACH
(Phase I Development)

J.N. 6845.01

Sand Borrow Site At
Dockweiler Beach.

Levels and
Cross-Sections.

Jan. 14, 1976
English
Caro
Stroud
Bradley

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

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76-1-298 CE 307 2-63

76-L-298 CE 307 2-63

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STATION	B.S.	H.I.	F.S.	ELEV.	T-line — See Pg. 90
fd. B.M. 27-5	6 03	42 83		36 80	B.M. 27-5, el.= 36.801, F.B. 3703-17. ℄ Vista Del Mar, in front of Hyperion Admin. Bldg. on line with flag pole & front entrance door.- Pg. 90 A hex bar in conc. in well w/iron cover.
fd: B.M. 27-5A			3 31	39 52	B.M. 27-5A, el.=39.511, F.B. 3703-17 E. side of Vista Del Mar in front of Hyperion Admin. Bldg., 6' E. of cb., U.S. Coast & Geodetic Survey Bench Mark disk, stamped H 1052 1960. in S.W. cor. of conc. box.
Cross-Sections Prior to Excavation. 1-15-76					
0+00				38 09	L. & C.E. Tag in T-line conc. gutter.- Pg. 90
				38 75	1' L. T. cb.
				41 1	11' L. T. B.
				40 2	50' L.
				39 7	100 L.
				38 2	150 L.
				36 6	200 L.

F.B. 3407 Pg. 92 Job No. 6845.01 Division No. 11 Notes Red. Plotted Profile
Survey of Las Tunas Beach Dev. Date Date No. X-Sec.
Survey by English Notes Ed. Notes Chkd. Checked
Indexed G.D. BAILEY Date FEB 9 1978 Date Date No.

76-L-298 CE 307 8-70

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STATION	B. S.	H. I.	F. S.	ELEV.		
						π-line See Pg. 90
0+00				356	236' L.	T. Bank.
				233	275' L.	
				159	302' L.	B. Bank.
				154	334' L.	Sand at E. edge of bike path.
				1563	335' L	L. & T. in bike path - Pg. 90.
0+50				3827		π-line
				3897	1' L.	Top cb.
				421	14' L.	T. Bank.
				403	50' L.	
				396	100' L.	
				376	150' L.	
				365	200' L.	
				353	239' L.	T. Bank.
				234	274' L.	
				158	302' L.	B. Bank.
				156	345' L.	Sand at E. edge of bike path.
1+00				3856		π-line
				3918	1' L.	Top cb.
				425	10' L.	T. Bank.
				403	20' L.	
				399	50' L	

Profile Notes Red ____ Plotted ____ Job No. 6845.01 Division No. 11 F. B. 3401 Pg. 93
No. ____ Date ____ Date ____ Survey of Las Tunas Beach Dr.
X-Sec. Notes Chk'd. ____ Checked ____ Survey by Engineer Notes ____ Date ____
No. ____ Date ____ Date ____ Map No. ____ Index [redacted] Date [redacted]

76-L-298 CE 307 8-70

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F. B. 3407 Pg. 94 | Job No. 6845.01 | Division No. 11 | Notes Red ____ Plotted ____ Profile No. ____
Survey of Las Tunas Beach Dev. Date ____ Date ____ X-Sec. No. ____
Survey by English Notes Ed. Notes Chk'd. ____ Checked ____
Indexed G. D. BAILEY Date FEB 9 1976 Date ____ Date ____

STATION	B. S.	H. I.	F. S.	ELEV.		
						T-line
1+00				388	100' L.	
				375	150' L.	
				365	200' L.	
				356	237' L.	T. Bank.
				249	269' L.	
				160	301' L.	B. Bank
				151	343' L.	Sand at E. edge of bike path.
1+50				3876		T-line
				3947	1' L.	T. cb.
				423	13' L.	T. Brk.
				404	22' L.	
				400	50' L.	
				393	100' L.	
				378	150' L.	
				365	200' L.	
				356	236' L.	T. Bank.
				260	265' L.	
				172	293' L.	B. Bank
				148	337' L.	Sand at E. edge of bike path.
2+00				3906		T-line
				3971	1' L.	T. cb.

76-L-298 CE 307 8-70

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	⊼-line
2+00				420	11' L. T. Brk.
				406	19' L.
				401	50' L.
				391	100' L.
				377	150' L.
				368	200' L.
				361	234' L. T. Bank.
				272	259' L.
				184	286' L. B. Bank.
				150	331' L. Sand at E. edge of bike path.
2+50				3927	gutter ⊼-line
				3994	1' L. T. Cb.
				432	13' L. T. Brk.
				411	22' L. B. "
				407	50' L.
				395	100' L.
				379	150' L.
				372	200' L.
				358	232' L. T. Bank.
				269	260' L.
				177	289' L. B. Bank

Profile Notes Red ____ Plotted ____ Job No. 684501 Division No. 11 F. B. 3407 Pg. 75
No. ____ Date ____ Date ____ Survey of Las Tunas Beach Dev.
X-Sec. Notes Chk'd. ____ Checked ____ Survey by [illegible] Notes [illegible] Date [illegible]
No. ____ Date ____ Date ____ Map No. ____ Indexed [illegible] D. BAILEY Date FEB 9 1976

76-L-298 CE 307 8-70

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	⊼-line
2+50				153	325' L. Sand at E. edge of bike path.
3+00				39 48	gutter ⊼-line
				40 13	1' L. T. cb.
				43 6	13' L. T. Brk.
				41 7	21' L. B. "
				41 4	50' L.
				39 7	100' L.
				38 1	150' L.
				37 2	200' L.
				36 4	233' L. T. Bank.
				27 7	261' L.
				18 2	287' L. B. Bank.
				15 7	319' L. Sand at E. edge of bike path.
3+50				40 11	T. cb. ⊼-line
				42 5	18' L. T. Brk.
				41 2	26' L.
				40 9	50' L.
				40 0	100' L.
				38 0	150' L.
				37 0	200' L.
				36 0	235' L. T. Bank.

F. B. 3407 PG. 96 | Job No. 684501 | Division No. 11 | Notes Red | Plotted | Profile
Survey of Las Tunas Beach Dev. | Date | Date | No.
Survey by English Notes Ed. | Notes Chk'd. | Checked | X-Sec.
Indexed G.D. BAILEY | Date FEB 9 1978 | Date | Date | No.

76-L-298 CE 307 8-70

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Π-line
3+50				259	265' L.
				191	284' L. B. Bank.
				162	313' L. Sand at E. edge of bike path.
4+00				3986	T. cb. Π-line
				418	6' L. T. Brk.
				409	19' L.
				399	41' L. Brk.
				403	50' L.
				398	100' L.
				376	150' L.
				372	200' L.
				361	235' L. T. Bank.
				281	259' L.
				192	284' L. B. Bank.
				161	308' L. Sand at E. edge of bike path.
4+50				3963	T. cb. Π-line
				424	16' L. T. Brk.
				401	26' L.
				391	50' L.
				387	100' L.
				372	150' L.

Profile No. ____ Notes Red ____ Plotted ____ Job No. 6845.01 Division No. 11 F. B. 3+01 Pg. [illegible]
Date ____ Date ____ Survey of Las Tunas Beach Dev.
X-Sec. No. ____ Notes Chk'd. ____ Checked ____ Survey by [illegible] Notes ____ Date ____
Date ____ Date ____ Map No. ____ Indexed E. D. BAILEY Date [illegible]

76-L-298 CE 307 8-70

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STATION	B. S.	H. I.	F. S.	ELEV.	Π-line
4+50				370	200' L.
				350	238' L. T. Bank.
				283	260' L.
				195	281' L. B. Bank.
				163	301' L. Sand at E. edge of bike path.
5+00				3942	T. cb. Π-line
				428	11' L. T. Brk.
				395	26' L.
				389	50' L.
				372	100' L.
				363	150' L.
				356	200' L.
				341	244' L. T. Bank.
				255	266' L.
				202	279' L. B. Bank.
				166	297' L. Sand at E. edge of bike path
5+50				3925	T. cb. Π-line
				411	6' L. T. Brk.
				397	36' L.
				381	50' L.
				368	100' L.

F. B. 3407 Pg. 98 Job No. 6845.01 Division No. 11 Notes Red Plotted Profile
Survey of Las Tunas Beach Dev. Date Date No.
Survey by English Notes Ed. Notes Chk'd. Checked X-Sec.
Indexed G. D. BAILEY Date FEB 9 1976 Date No.

76-L-298 CE 307 8-70

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Π-line
5+50				353	150' L.
				347	200' L.
				337	246' L. T. Bank.
				275	263' L.
				210	278' L. B. Bank.
				162	297' L. Sand at E edge of bike path
6+00				3909	T. cb. Π-line
				416	7' L. T. Brk.
				393	23' L.
				391	34' L.
				397	38' L.
				376	50' L.
				360	100' L.
				352	150' L.
				344	200' L.
				330	250' L. T. Bank.
				268	266' L.
				198	281' L. B. Bank.
				161	299' L. Sand at E. edge of bike path.
6+50				3889	T. cb. Π-line
				420	6' L. T. Brk.

Profile No. ____ Notes Red ____ Plotted ____ Job No. 3407 Division No. 11 F. B. 3407 Pg. 97
Date ____ Date ____ Survey of Los Tunas Beach Dev.
X-Sec. No. ____ Notes Chk'd. ____ Checked ____ Survey by English Notes Cara Date 15-76
Date ____ Date ____ Map No. ____ Indexed R. D. BAILEY Date FEB 8-[illegible]

76-L-298 CE 307 8-70

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F. B. 3407 Pg. 100 | Job No. 6845.01 | Division No. 11 | Notes Red ____ Plotted ____ Profile ____
Survey of Los Tunas Beach Dev. Date ____ Date ____ No. ____
Survey by English Notes C 470 Notes Chk'd. ____ Checked ____ X-Sec. ____
Indexed G. D. BAILEY Date FEB 9 1970 Date ____ Date ____ No. ____

STATION	B. S.	H. I.	F. S.	ELEV.		
					T-line	
6+50				397	21' L.	
				390	37' L.	
				393	41' L.	
				370	55' L.	
				358	100' L.	
				350	150' L.	
				340	200' L.	
				334	250' L.	
				329	253' L. T. Bank.	
				252	271' L.	
				192	285' L. B. Bank.	
				159	302' L. Sand at E. edge of bike path.	
7+00				3869	T. cb. T-line	
				419	10' L. T. Brk.	
				391	21' L.	
				387	39' L.	
				400	44' L.	
				369	55' L.	
				358	100' L.	
				350	150' L.	
				342	200' L.	

76-L-298 CE 307 8-70

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STATION	B. S.	H. I.	F. S.	ELEV.	T-line
7+00				336	250' L. T. Bank.
				257	270' L.
				201	284' L. B. Bank.
				158	310' L. Sand at E. edge of bike path
7+50				3847	T. cb. T-line
				437	13' L. T. Brk.
				395	21' L.
				387	39' L.
				391	44' L.
				359	61' L.
				356	100' L.
				352	150' L.
				347	200' L.
				338	250' L.
				337	254' L. T. Bank.
				247	274' L.
				187	290' L. B. Bank
				154	320' L. Sand at E. edge of bike path.
8+00				3826	T. cb. T-line
				424	10' L. T. Brk.
				389	22' L.

Profile Notes Red ____ Plotted ____ Job No. 6845.01 Division No. 11 F. B. 3407 Pg. 101
No. ____ Date ____ Date ____ Survey of Las Tunas Beach Park
X-Sec. Notes Chk'd. ____ Checked ____ Survey by Eng. 1 Notes Card Date 1-15-76
No. ____ Date ____ Date ____ Map No. ____ Index [redacted] BAILEY Date [redacted]

76-L-298 CE 307 8-70

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	T-line	
8+00				388	42' L.	
				398	48' L.	
				366	60' L.	
				350	100' L.	
				346	150' L.	
				343	200' L.	
				336	250' L.	
				333	257' L. T. Bank.	
				224	280' L.	
				171	301' L. B. Bank.	
				151	325' L. Sand at E. edge of bike path.	
8+05				1534	335' L. El. = 15.34, fd. L. & T.	
						See pg. 90.

F. B. 3407 Pg. 102 | Job No. 6845.01 | Division No. 11 | Notes Red ____ | Plotted ____ | Profile ____
Survey of Las Tunas Beach Dev | Date ____ | No. ____
Survey by English Notes Cato | Notes Chk'd. ____ | Checked ____ | X-Sec. ____
Indexed G. D. BAILEY | Date FEB 9 1978 | Date ____ | Date ____ | No. ____

76-L-298 CE 307 5-66

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	⊼-line
8+50				3807	T. cb. ⊼-line
				415	12' L. T. Brk.
				393	17' L.
				400	22' L.
				394	36' L.
				388	38' L.
				387	43' L.
				396	49' L.
				372	56' L.
				347	100' L.
				342	150' L.
				338	200' L.
				328	250' L.
				324	259' L. T. Bank.
				234	279' L.
				182	296' L. B. Bank.
				154	325' L. Sand at E. edge of bike path

Profile Notes Red ____ Plotted ____ Job No. 6845.5 Division No. 11 F. B. 21 PG.
No. ____ Date ____ Date ____ Survey of Las Tunas Beach Dev
X-Sec. Notes Chk'd. ____ Checked ____ Survey by Lingwin Notes ____ Date ____
No. ____ Date ____ Date ____ Map No. ____ Indexed G. D. BAILEY Date FEB 9 1976

76-L-298 CE 307 5-66

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	⊼-line
9+00				3788	T. cb. ⊼-line
				402	8' L. T. Brk.
				403	14' L.
				393	18' L.
				396	23' L.
				406	32' L.
				388	37' L.
				375	40' L.
				375	48' L.
				394	53' L.
				367	61' L.
				347	100' L.
				337	150' L.
				326	200' L.
				312	250' L.
				308	263' L. T. Bank.
				230	281' L.
				175	300' L. B. Bank.
				156	322' L. Sand at E. edge of bike path.

F. B. 3407 PG. 104 Job No. 6845.01 Division No. 11 Notes Red ____ Plotted ____ Profile ____
Survey of Las Tunas Beach Dev. Date ____ Date ____ No. ____
Survey by English Notes Caro Notes Chk'd. ____ Checked ____ X-Sec. ____
Indexed G. D. BAILEY Date FEB 9 1978 Date ____ Date ____ No. ____

76-L-298 CE 307 5-66

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	T-line
9+50				3764	T. cb. T-line
				398	6' L. T. Brk.
				400	13' L.
				395	16' L.
				395	22' L.
				410	28' L.
				397	39' L.
				382	45' L.
				382	50' L.
				399	55' L.
				354	69' L.
				334	100' L.
				316	150' L.
				311	200' L.
				314	250' L.
				292	266' L. T. Bank.
				186	295' L. B. Bank.
				159	318' L. Sand at E. edge of bike path
9+76				273	263' L. T. Bank.
				188	286' L. B. Bank.
				160	309' L. Sand at E. edge of bike path

Profile Notes Red ____ Plotted ____ Job No. ____ Division No. 11
No. ____ Date ____ Date ____ Survey of ____
X-Sec. Notes Chk'd ____ Checked ____ Survey by ____ Notes ____ Date ____
No. ____ Date ____ Date ____ Map No. ____ Indexed B. D. BAILEY Date FEB 8 1978

F. B. Pg. 105

76-L-298 CE 307 5-66

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STATION	B. S.	H. I.	F. S.	ELEV.	⊼-line
10+00				3743	T. cb. ⊼-line
				406	9' L. T. Brk.
				395	15' L.
				398	25' L.
				411	30' L.
				382	37' L.
				381	48' L.
				390	50' L.
				352	63' L.
				323	100' L.
				297	150' L.
				270	200' L.
				252	250' L. T. Bank.
				186	281' L. B. Bank.
				161	305' L. Sand at E. edge of bath path.
fd. B.M.-27-5A.				3952	B.M.-27-5A. El. = 39.52. See Pg. 92.

End Cross-Sections Prior to Excavation

F. B. 3407 Pg. 106 Job No. 6845.01 Division No. 11 Notes Red ____ Plotted ____ Profile ____
Survey of Las Tunas Beach Dev. Date ____ Date ____ No. ____
Survey by English Notes Cato Notes Chk'd. ____ Checked ____ X-Sec. ____
Indexed G. D. BAILEY Date FEB 9 1976 Date ____ Date ____ No. ____

F.B. 3407 Pg. 127

Profile Notes Red Plotted Job No. 8762.02 Division No. 11

No. Date Date Survey of INTERNATIONAL AIRPORT BORROW SITE.

X-Sec. Notes Chkd. Checked Survey by R.B.H. Notes R.B.H. Date 6-16-71

No. Date Date Map No. Indexed T. M. PALMER Date JL 7 11

LAS TUNAS BEACH IMPROVEMENT

BENCH LEVELS

TO

ESTABLISH VERTICAL CONTROL FOR P.T. SH'TS

INTERNATIONAL AIRPORT BORROW SITE.

J.N. 8762.02

JUNE 16TH 1971
HOBSON
YASUI
BANKSON
GOODWIN.

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

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76-L-298 CE 307 2-63

76-L-298 CE 307 2-63

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F.B. 3407 Pg. 128 Job No. 8762.02 Division No. 11 Notes Red Plotted Profile No.
Survey of INTERNATIONAL AIRPORT BORROW SITE Date Date X-Sec. No.
Survey by R.B.H. Notes R.B.H. Notes Chkd. KGB Checked
Indexed T. M. PALMERI Date Date 7-8-71 Date No.

STATION	B.S.	H.I.	F.S.	ELEV.	
(FD) B.M. BY 8272	4 338	96 239		91 901	B.M. BY 8272 ELEV. 91.901 (HAWTHORNE 1970) RDBM TAG 1 FT. W. B.C.R. @ S.W. COR. IMPERIAL HWY + HILLCREST ST. 40 FT. S. & 47 FT. W. ℄ INT.
(FD) B.M. BY 8271	4 451	96 441	4 249	91 990	B.M. BY 8271 ELEV. = 91.996 (HAWTHORNE 1970) WIRE SPK 40 FT. N. ℄ IMPERIAL HWY & 15 FT. W. ℄ HILLCREST ST.
T.P.	4 309	95 703	5 047	91 394	T.P.
T.P.	3 712	94 311	5 104	90 599	T.P.
T.P.	0 961	89 319	5 953	88 358	T.P.
T.P.	2 004	85 401	5 922	83 397	T.P.
(FD.) B.M. "B-4"	2 298	81 930	5 769	79 632	BM "B-4" ELEV. = 79.638 IMPERIAL HWY, N.LY SIDE. 0.20 MI.± W. OF HILLCREST ST. L.E.T. IN N CB., 38'± W. OF ℄ OF GATE "380-B" (ACCESS RD. TO N.) (E.C. OF CURVE CONCAVE N'LY.) PAINTED BM "B-4"
T.P.	2 365	78 703	5 592	76 338	T.P.
T.P.	2 122	75 428	5 397	73 306	T.P.
T.B.M.	3 327	72.762	5 993	69 435	TB.M. ELEV. : 69.441 F.B. 3407-128 IMPERIAL HWY., MI.± W. OF HILLCREST ST. L.E.T. CTR. OF CONC. DRAIN. DITCH IN MIDDLE OF MEDIAN STRIP (B.C. OF CURVE CONCAVE N'LY.)
T.P.			5 966	66 796	T.P.

76-L-298 CE 307 2-63

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STATION	B. S.	H. I.	F. S.	ELEV.	
T.P.	2 341	69 137		66 796	T.P.
T.P.	2 300	65 825	5 612	63 525	T.P.
T.P.	2 333	62 525	5 633	60 192	T.P.
T.P.	2 364	59 359	5 530	56 995	T.P.
T.P.	2 398	56 137	5 620	53 739	T.P.
T.P.	2 209	52 504	5 842	50 295	T.P.
T.P.	2 402	48 713	6 193	46 311	T.P.
B.M. BY 8273			5 803	42 910	B.M. BY 8273 ELEV.: 42.917 (HAWTHORNE 1970) CITY OF L.A. MON. IN WELL 10 IN. DN. @ ℄ INT. VISTA DEL VOR + IMPERIAL HWY. MKD. "VENICE H-9 1951."

Profile No. Notes Red Date Plotted Date Job No. 87 62.02 Division No. 11 Survey of INTERNATIONAL AIRPORT BORROW SITE

No. Date 7-8-71 Date Map No. Indexed T. M. PALMER Date

F.B. 3407 Pg. 129

F.B. 3407 Pg. 130

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.	

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405 Los Angeles County Engineering Bldg.

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76-L-298 CE 367 2-63

NOTES RED_____ JOB NO._____ SURVEY OF_____ F. B. PG.

DATE_____ SURVEY BY_____

NOTES CHKD_____ NOTES BY_____ DATE_____

DATE_____ INDEXED_____ DATE_____

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION

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LOS ANGELES COUNTY ENGINEER

[illegible]00 LOS ANGELES COUNTY ENGINEERING BLDG.

768420 S & E-353 9-55

F. B. PG.

JOB NO. _____ SURVEY OF _____

SURVEY BY _____

NOTES BY _____ DATE _____

INDEXED _____ DATE _____

NOTE: [illegible] CHANGES ON THIS [illegible] MADE OR CHECKED [illegible] SITE AND [illegible] CHANGE.

DESCRIPTION

7 0 4 N