Notes Ck'd by
Job No
Work

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

F.B. 2646 Pg.

Job	Description
	WATERWORKS DISTRICT #29 5294.16
C.L.	C.L. & int. sts. along Pacific Coast Hwy from Santa Monica City Bdry westerly to Castle Rock.
C.L.	C.L. along Pacific Coast Hwy from slide area to P.C.C. west of Sunset Blvd.
Topog.	Loc. Imp. along above C.L. line (pgs. 5-14).
X-sec.	Along above route.
Topog.& X-sec.	Loc. Imp. & X-sec. along Pacific Coast Hwy. at Bel Air Bay Club property.
Topog.& X-sec.	Loc. Imp. & X-sec. on Pacific Coast Hwy. from Bel-Air Bay Club Rd. to P.C.C. west of Sunset Blvd.
C.L.	C.L. ties & int. sts. for pipe line along Bicknell Ave. from Neilson Way to Ocean Ave., thence westerly along Ocean Ave. & Appian Way to Colorado St. & Pacific Coast Hwy.
Topog.	Loc. Imp. along above route.
X-sec.	Along above route.
Elev.	Marina Del Rey Service-Bench Marks for const.
C.L.	C.L. & int. sts. from Venice Blvd. to Washington Blvd.

Microfilmed June '85

(Cont'd on next page)

F.B. 2646 Pg.

Page	Job	Description
179-184	Topog.& X-sec.	Loc. Imp. & X-sec. at Venice Blvd.& Pisani Place-Marina Del Rey Service.
185-193	Topog.& X-sec	Area #2-Loc. Imp. & X-sec. on Washinton Blvd. at Boscaccio Ave. & at Marr St.
195-203	Topog.& X-sec.	Marina Del Rey Service-Loc. Imp. & X-sec. on Wilson at Harbor Ave. & Washington St.
205-214	C.L.	C.L. ties on Pacific Coast Hwy. from P.C.C. west of Sunset Blvd. to West Bdry. City of L.A.
215-226	Topog.	Loc. Imp. on Pacific Coast Hwy. from P.C.C. west of Sunset Blvd. to West Bdry City of L.A.
227-235	Topog.	Location of traffic lines from Sunset Blvd. west bdry City of Los Angeles.
237-256	X-sec.	On Pacific Coast Hwy from P.C.C. west of Sunset Blvd. to west Bdry. City of L.A.
257-258	Topog.	Topography at Bel-Air Bay Club Tunnel.
259-260	Elev.	Tunnel invert at Bel-Air Bay Club.

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PP 185-188 Marina Del Rey Topo
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Washington Blvd. & Marr
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WILSON AVE & WASHINGTON ST.

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Date	Indexed A. C. Johnson

F. B. 2646 PG. 5

JN 5292.16

WATER WORKS DISTRICT #29

℄ Ties
on
PACIFIC COAST HWY.
from
WEST BDRY of SANTA MONICA CITY
to
TOPANGA CANYON

Mankey Jr.
Voge
Swann
L. Jones

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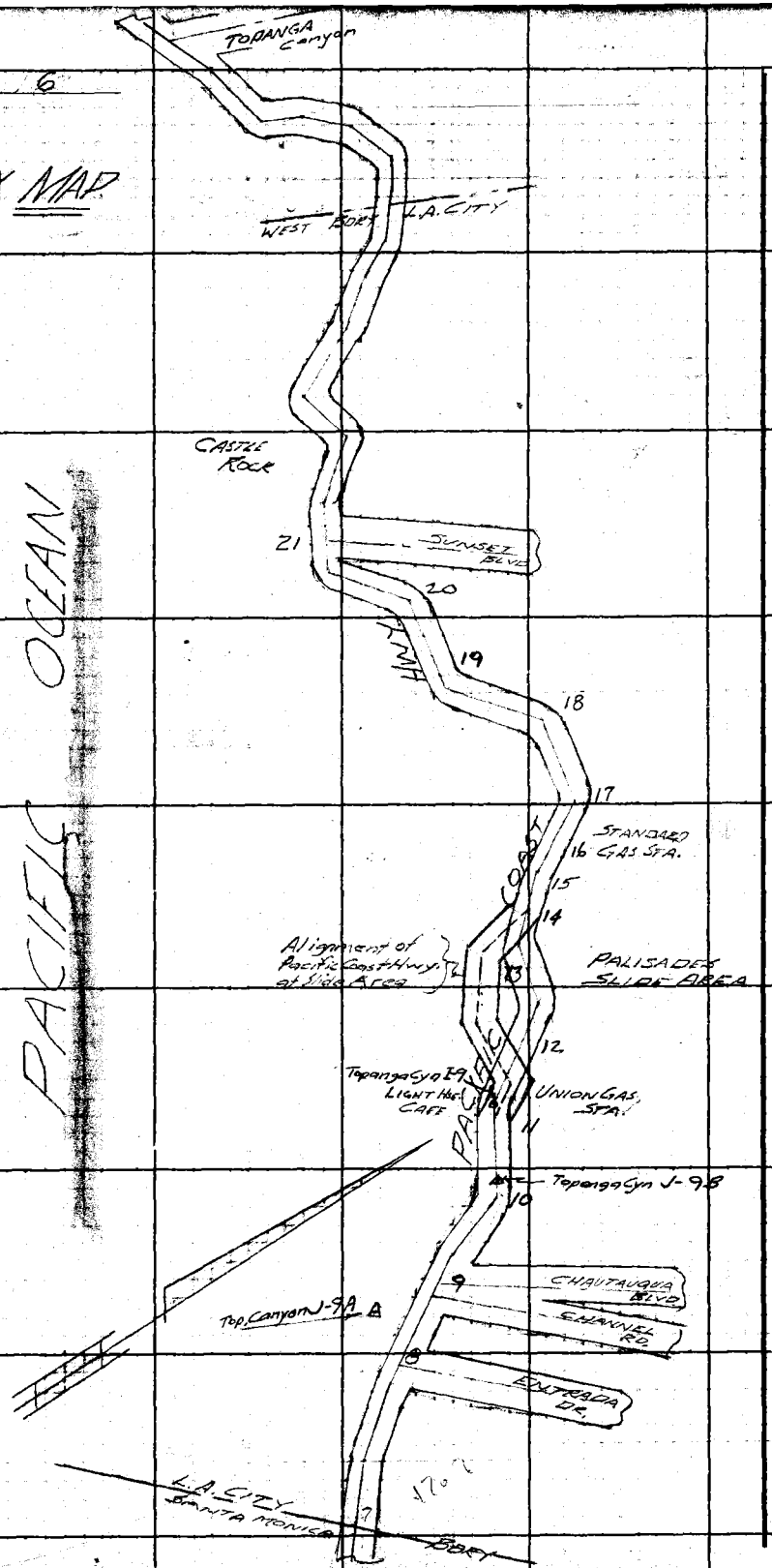
F. B. 2696 PG. 6

INDEX MAP



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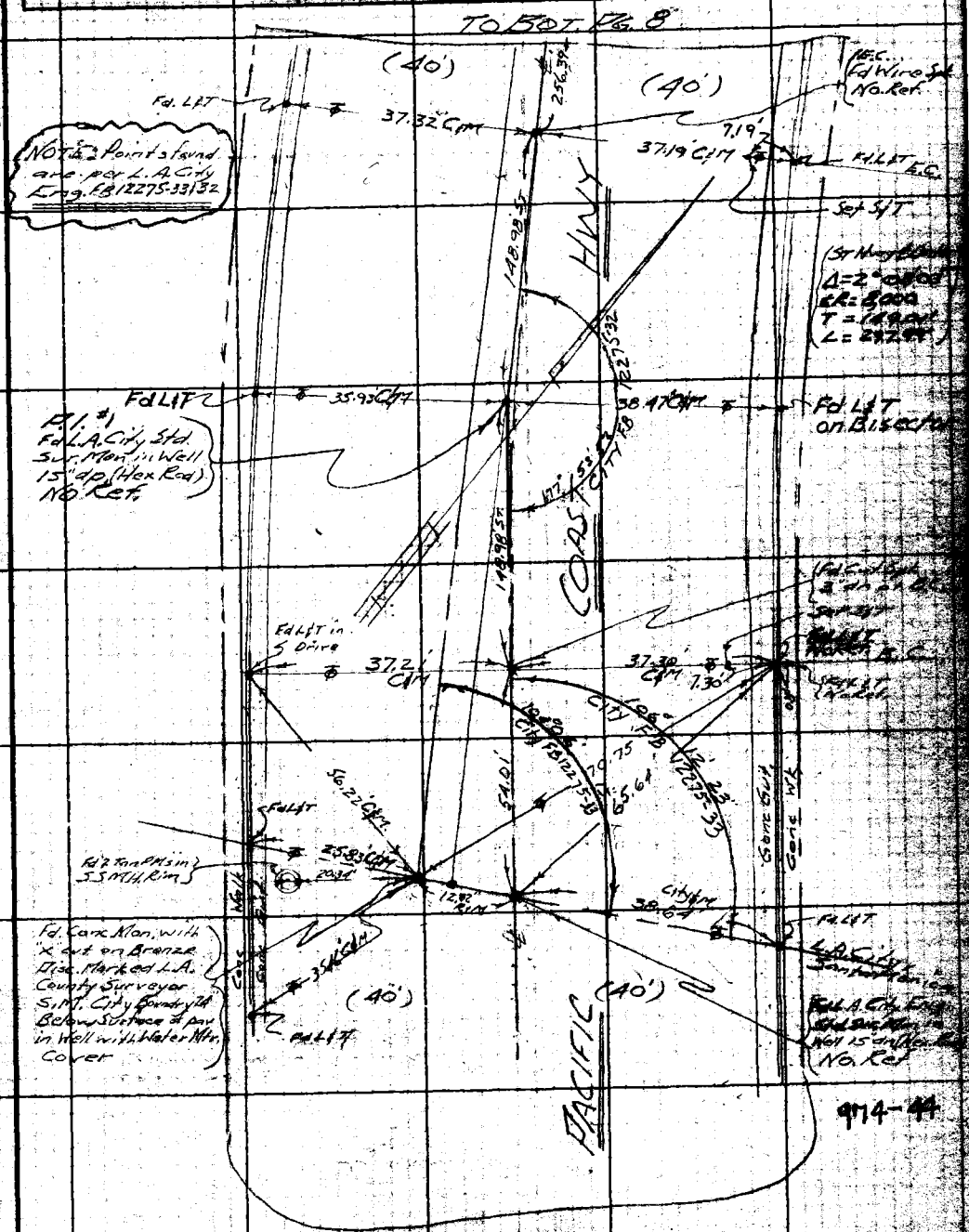
Date	Indexed A. C. Johnson	



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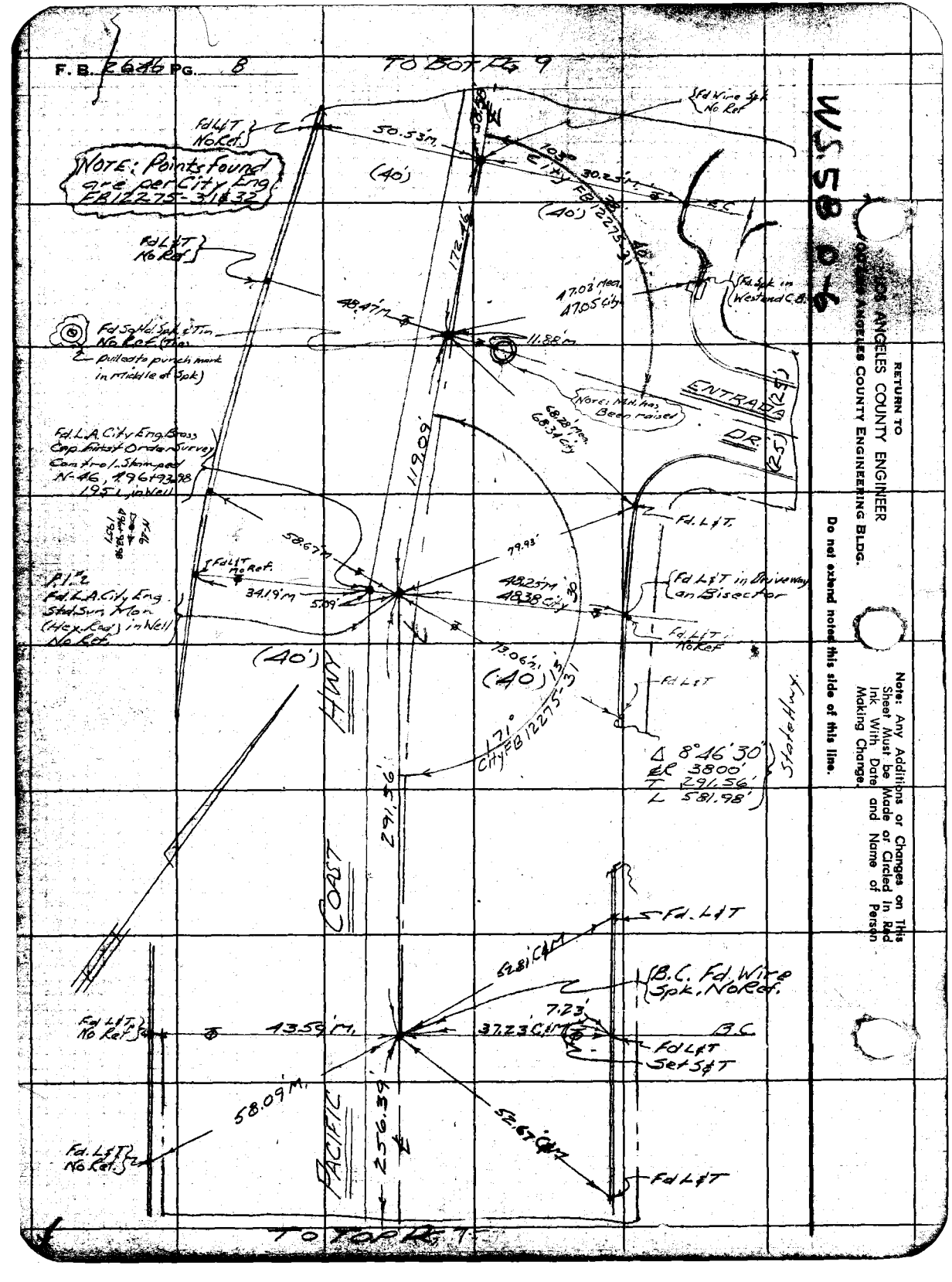

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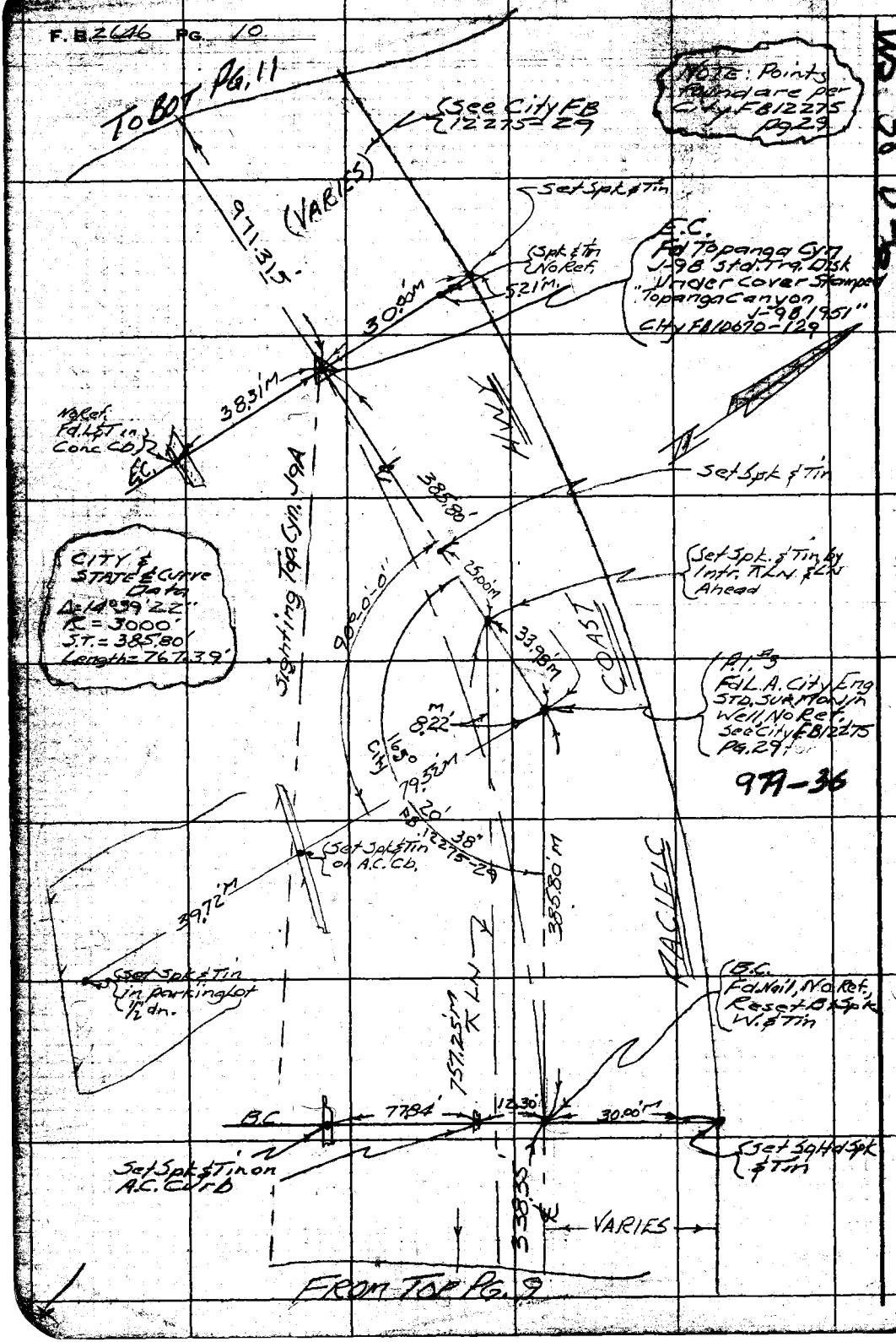

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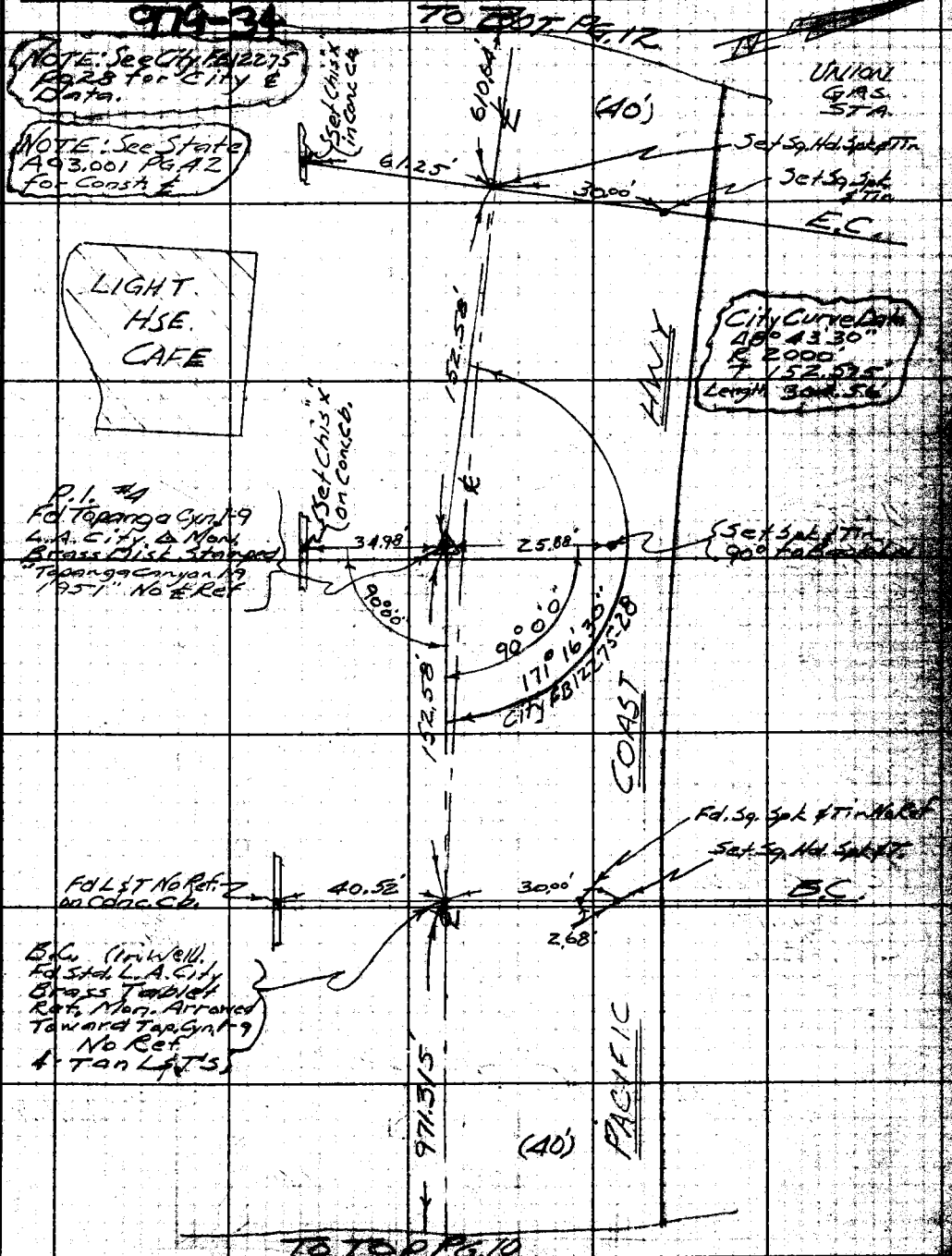

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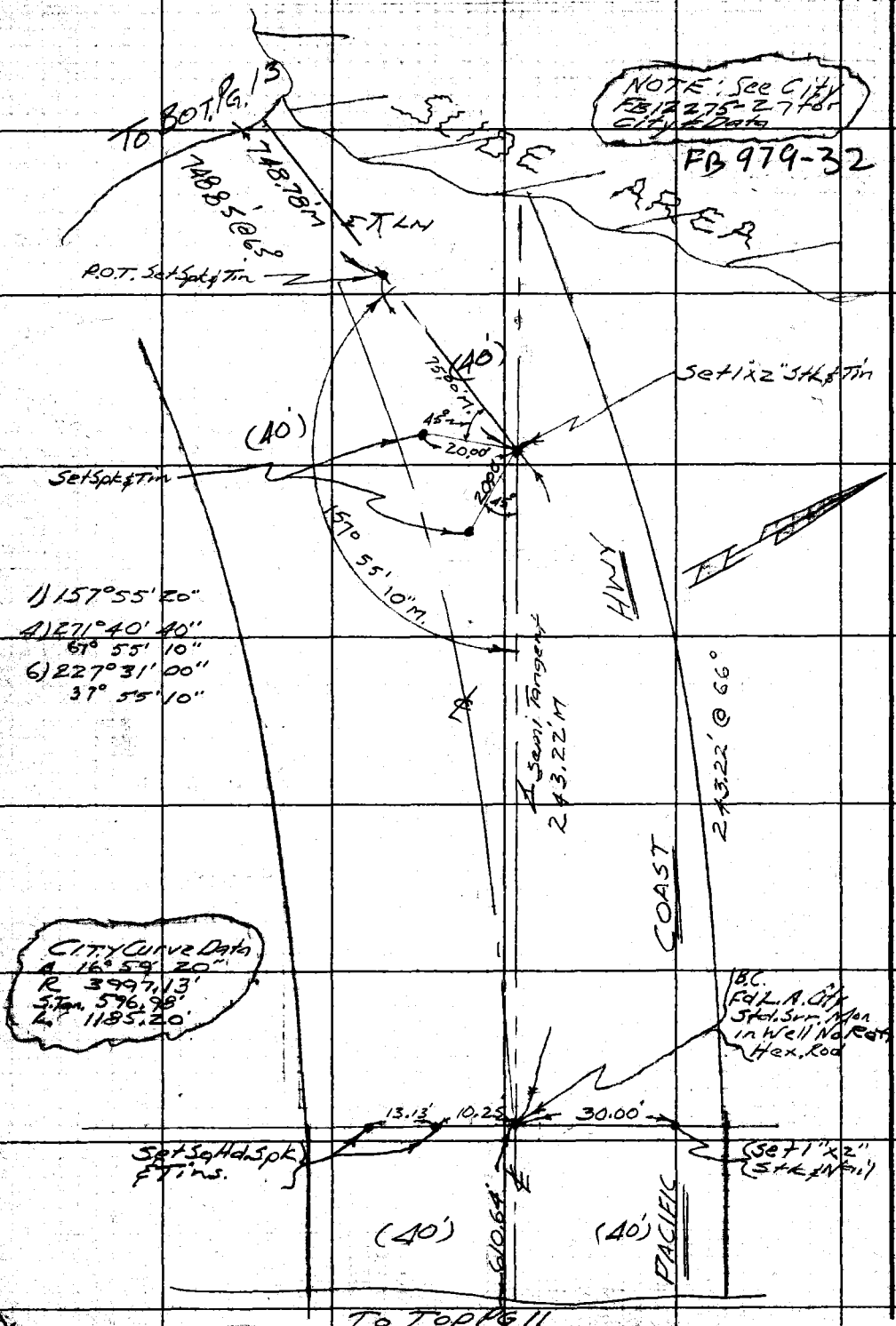

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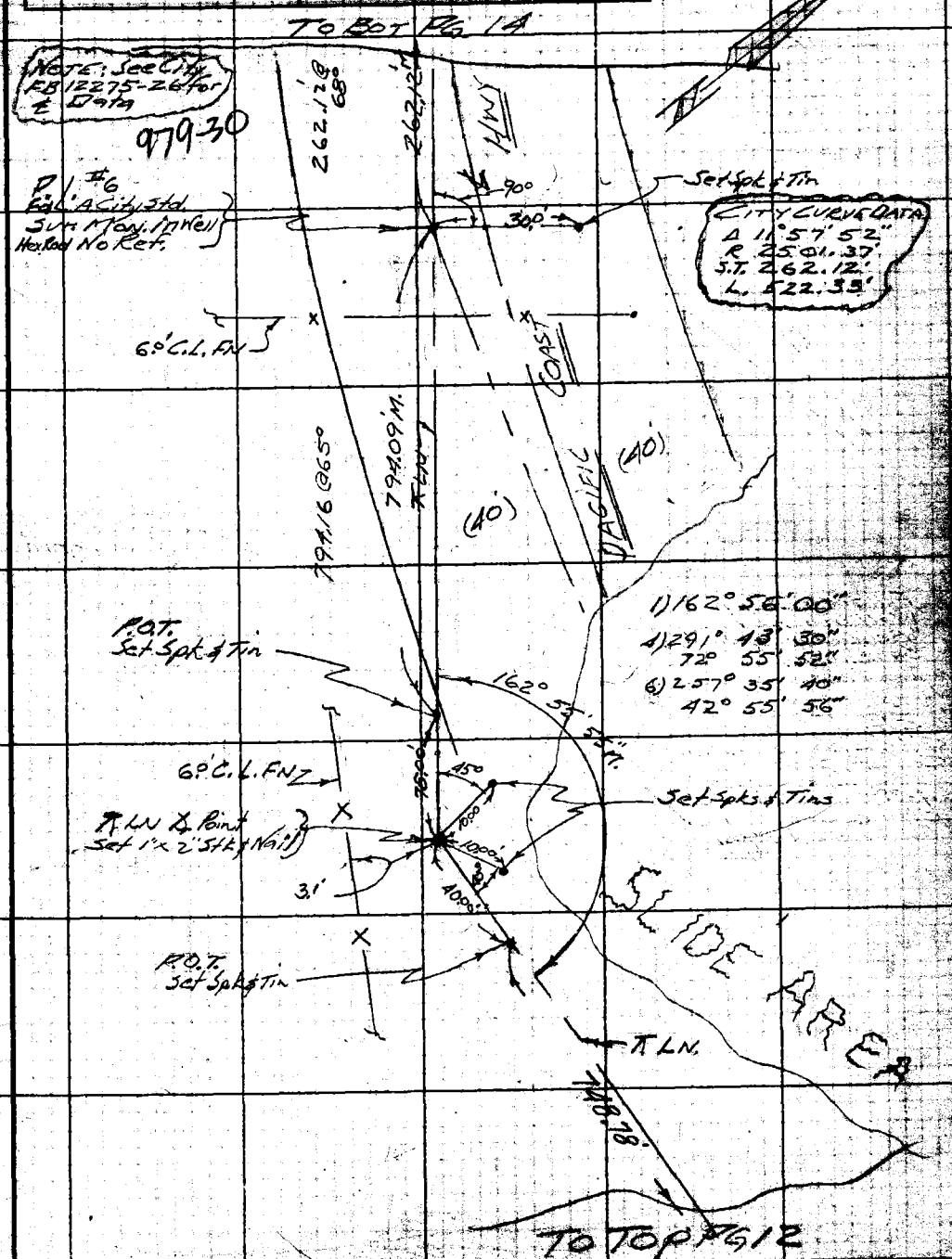

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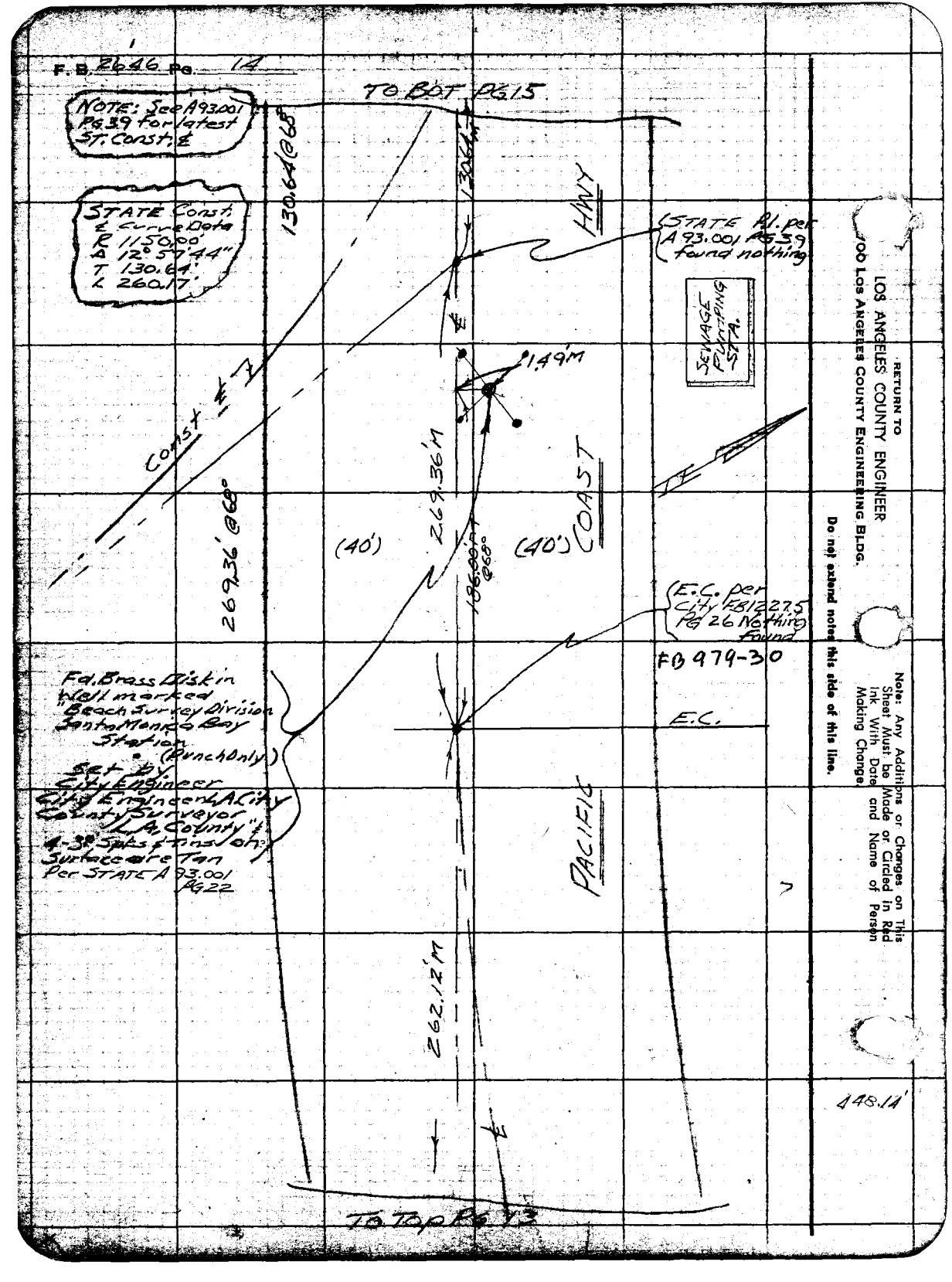

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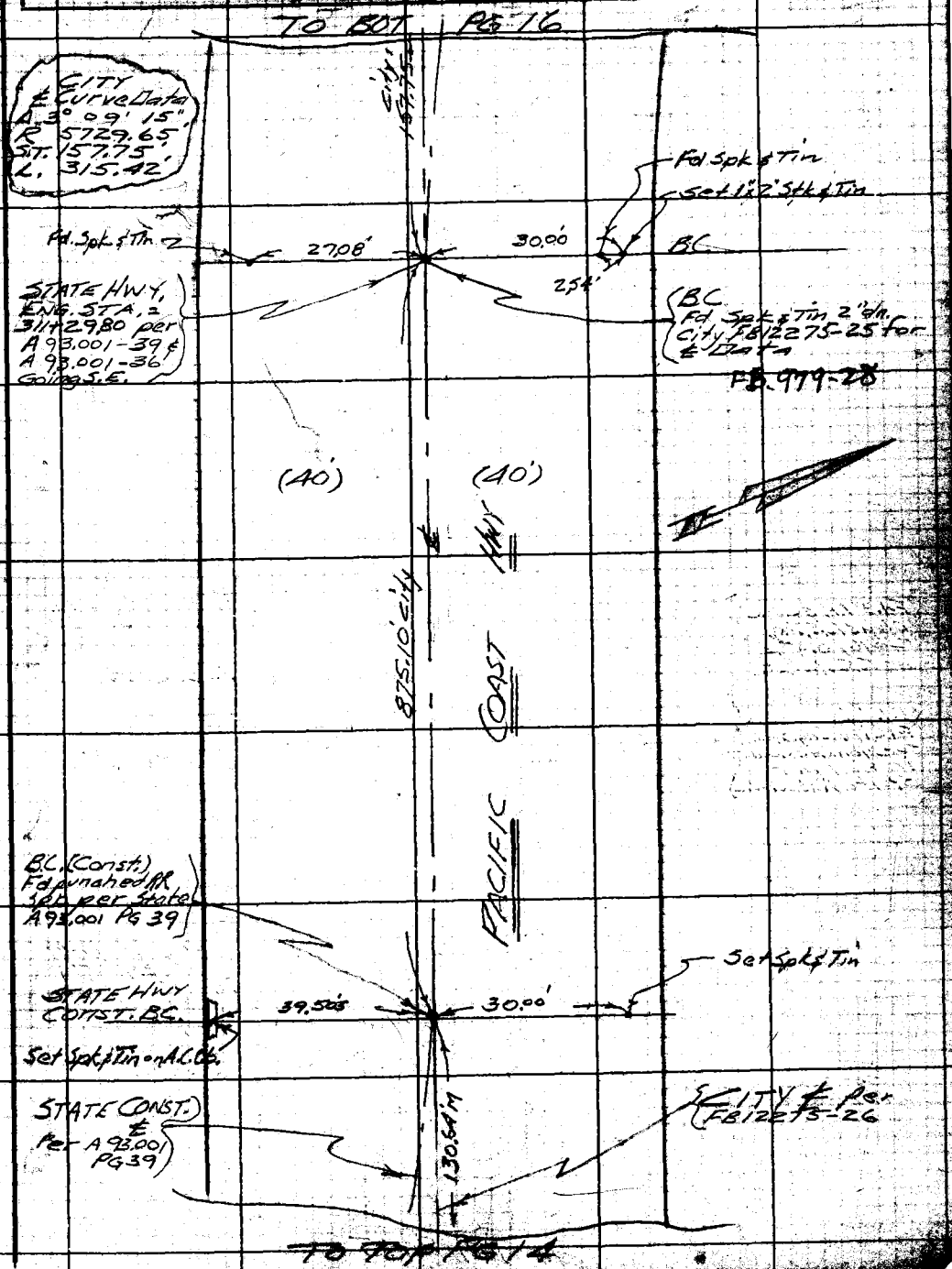

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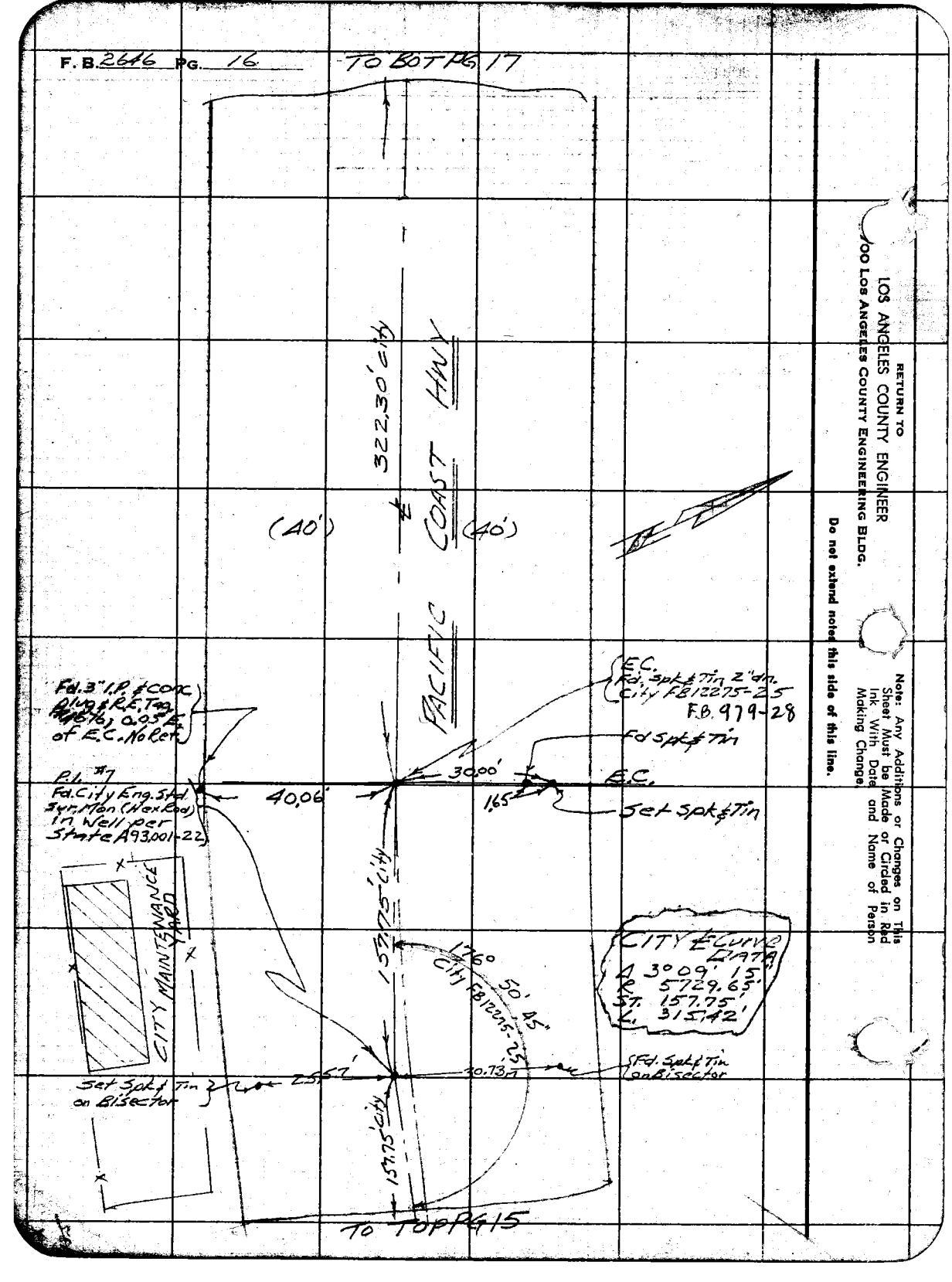

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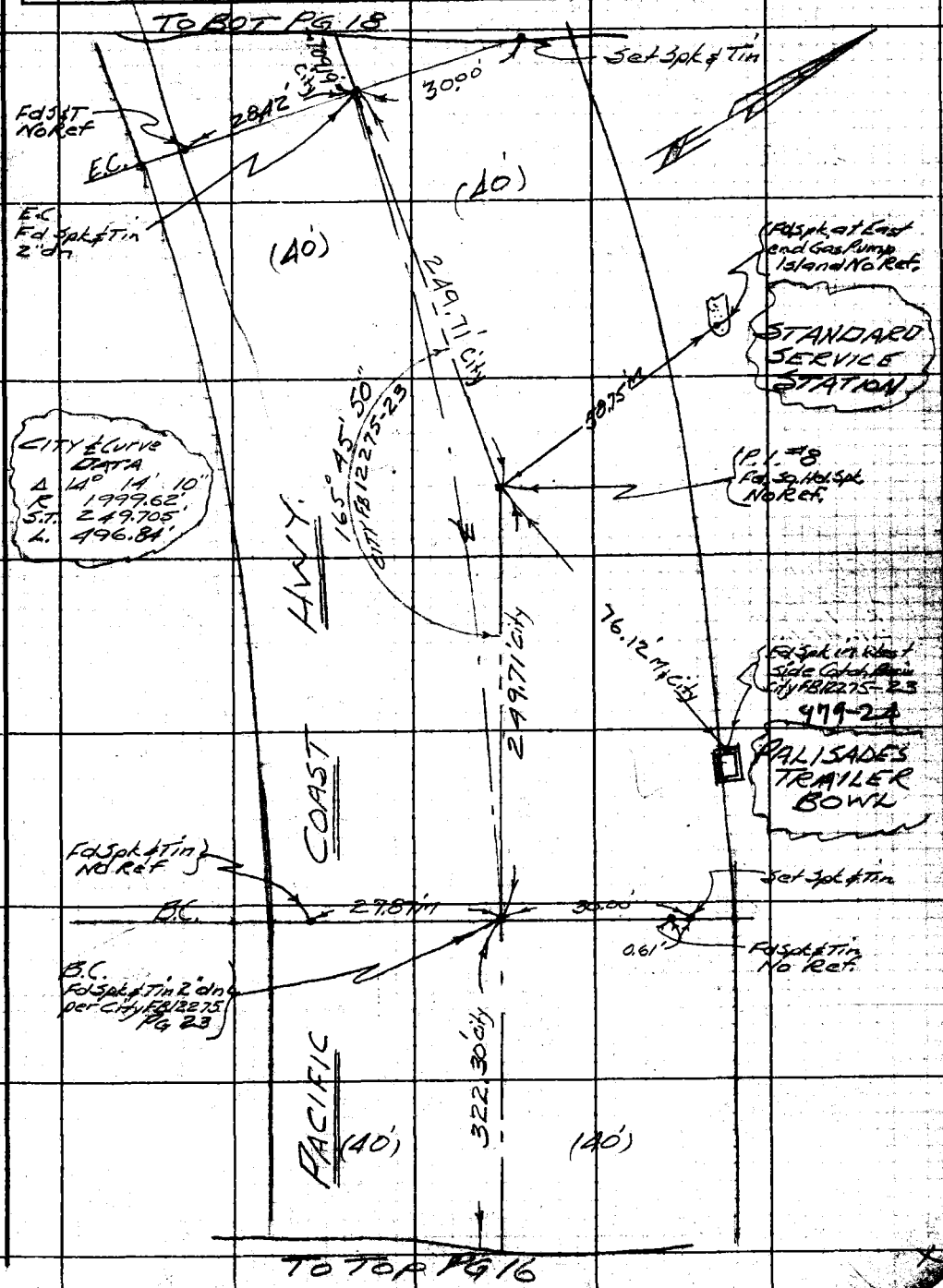

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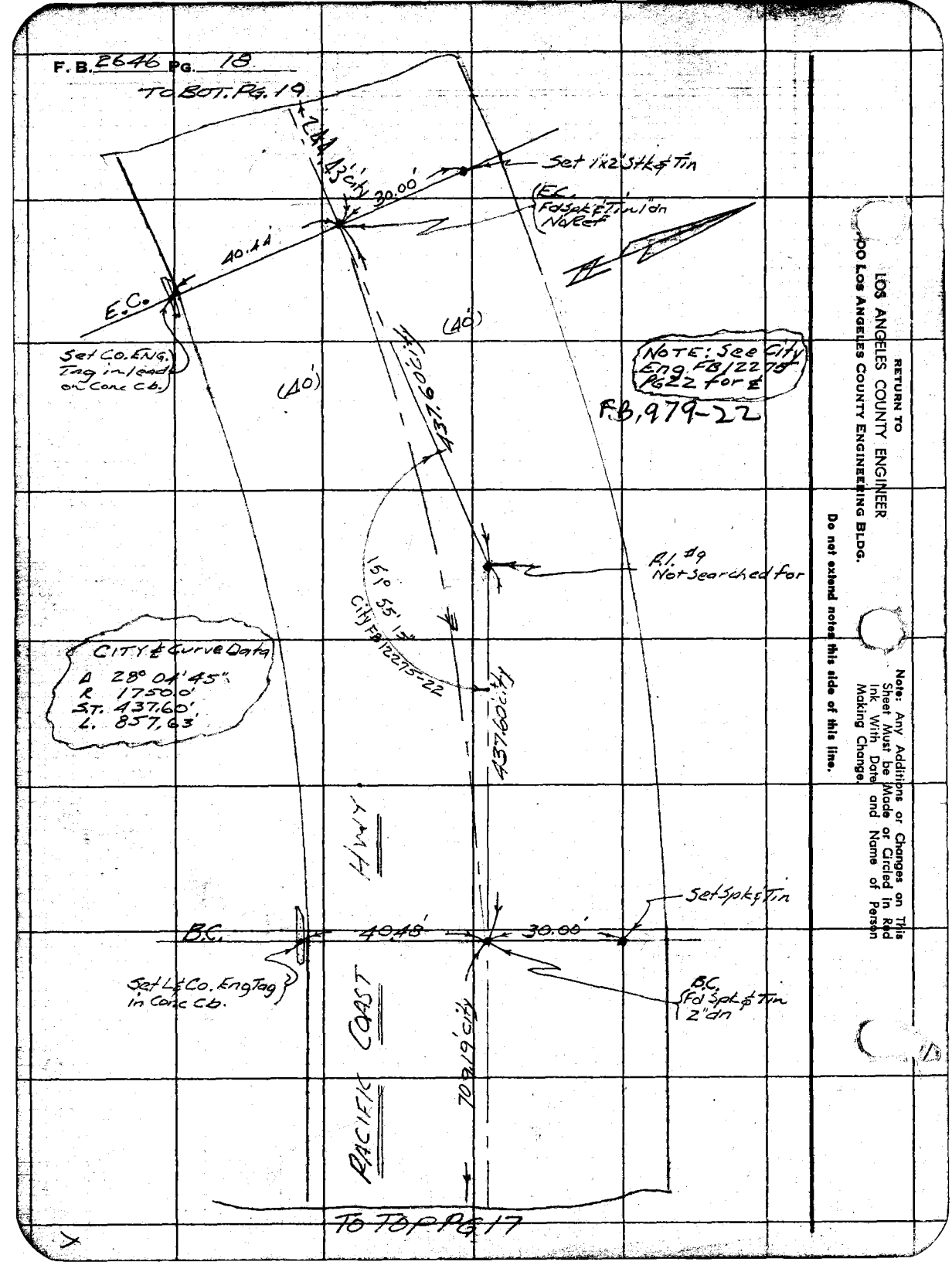

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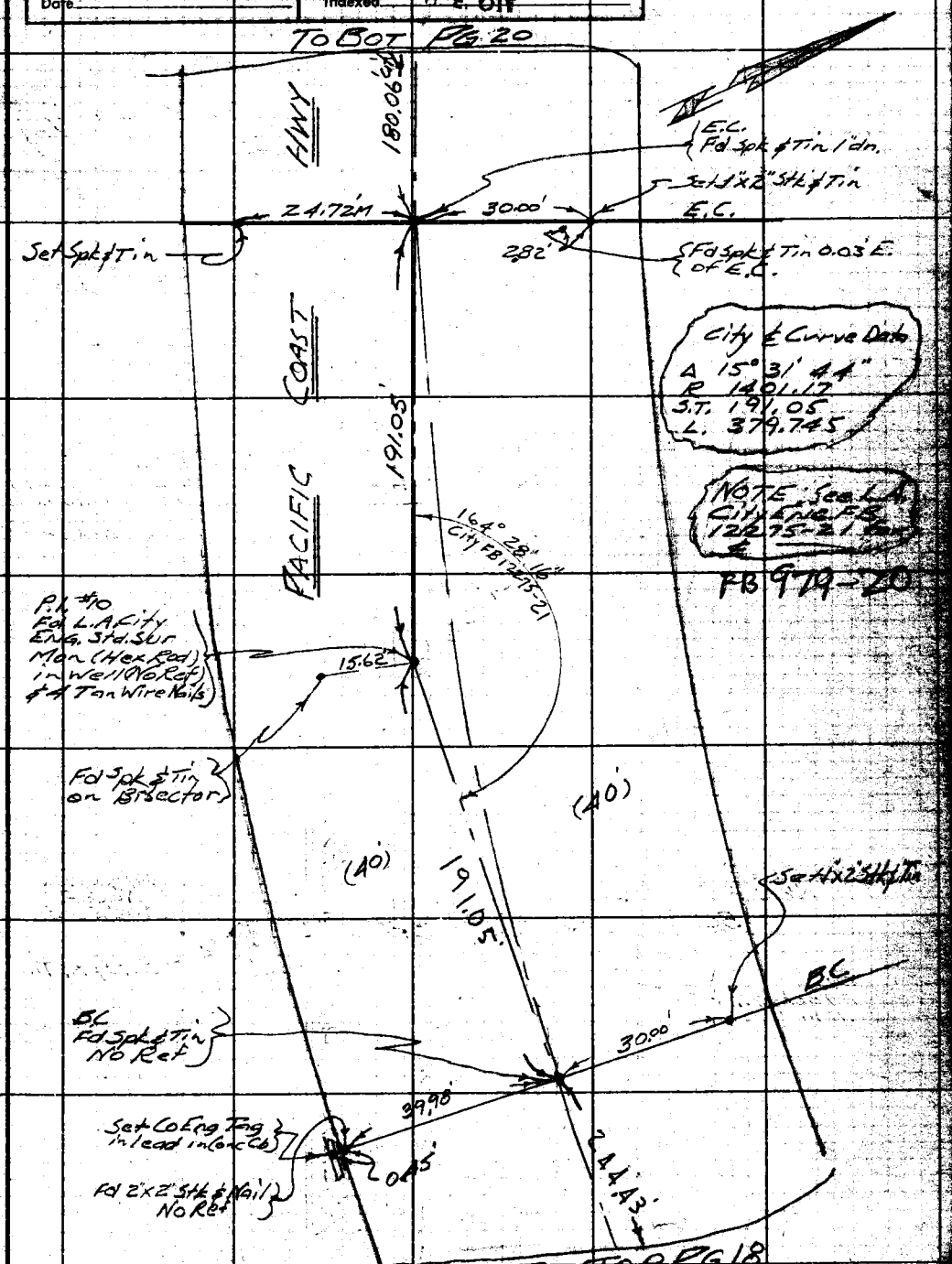

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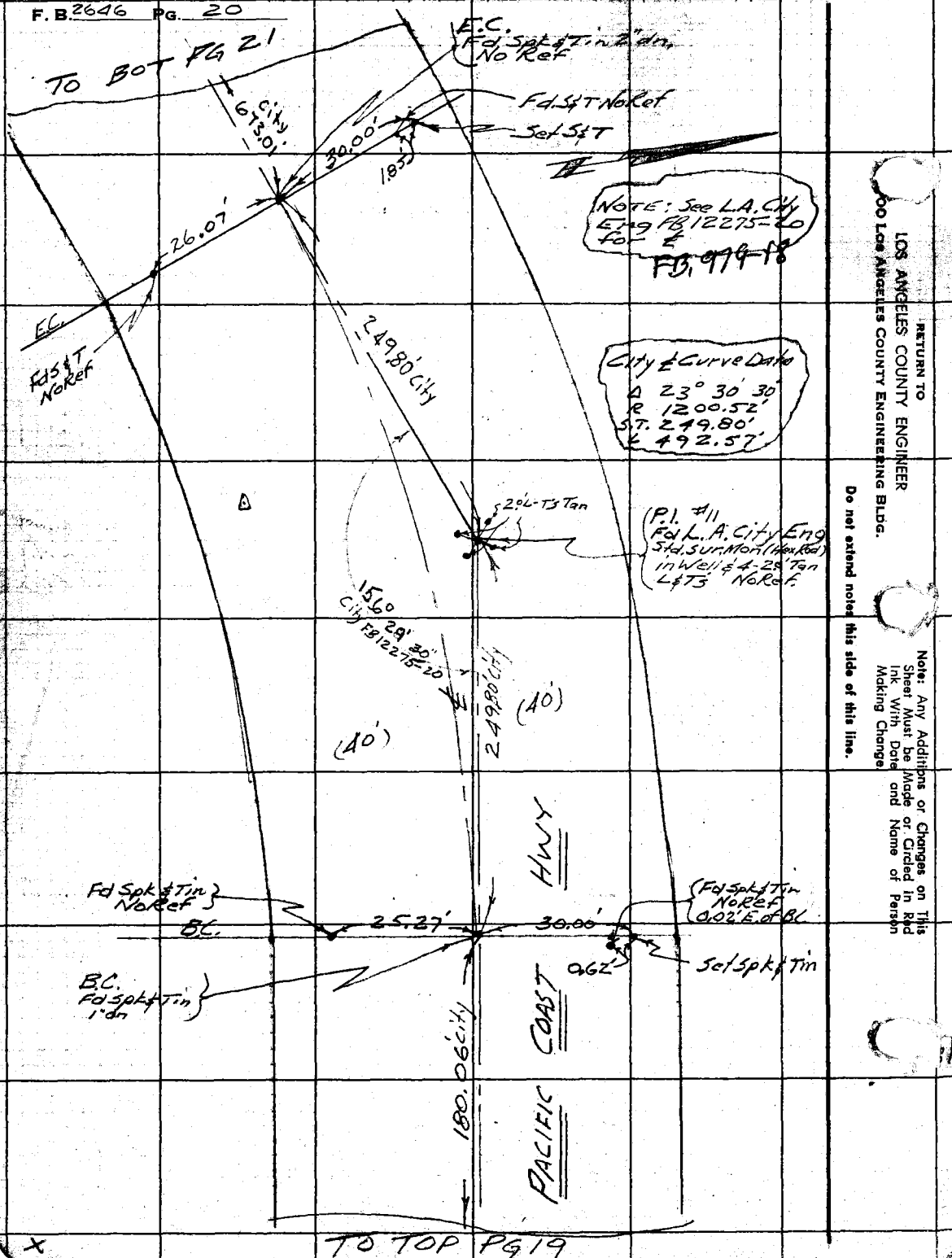

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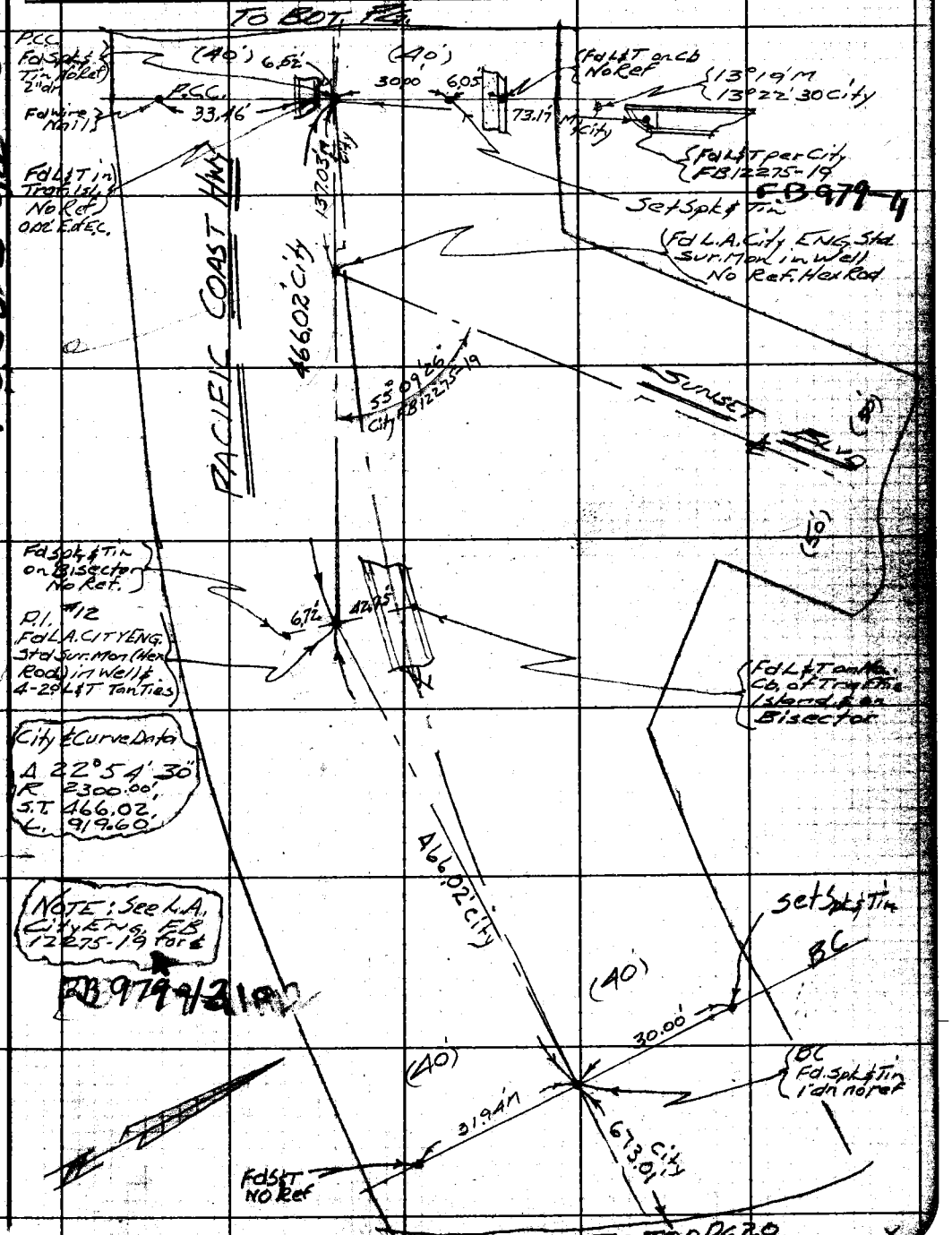

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Date	Indexed K. C. Johnson

JN 5292.16

WATER WORKS DISTRICT #29

TOPOGRAPHY
on
PACIFIC COAST HWY
from
WEST BOUNDRY of CITY of SANTA MONICA
to
WEST SIDE of PALISADE SLIDE AREA

Mankey Jr.
Voge
Swann
L. Jones

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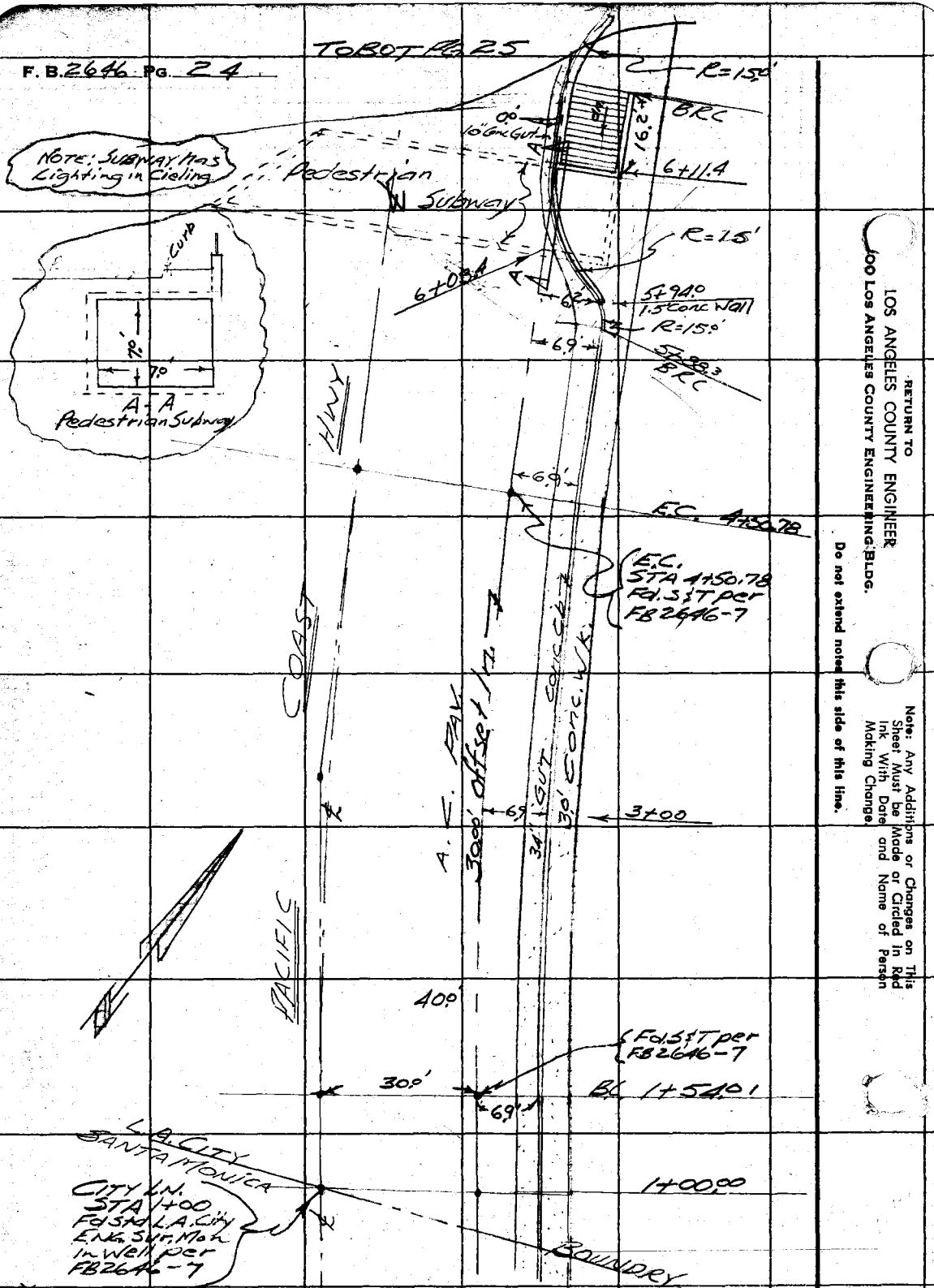

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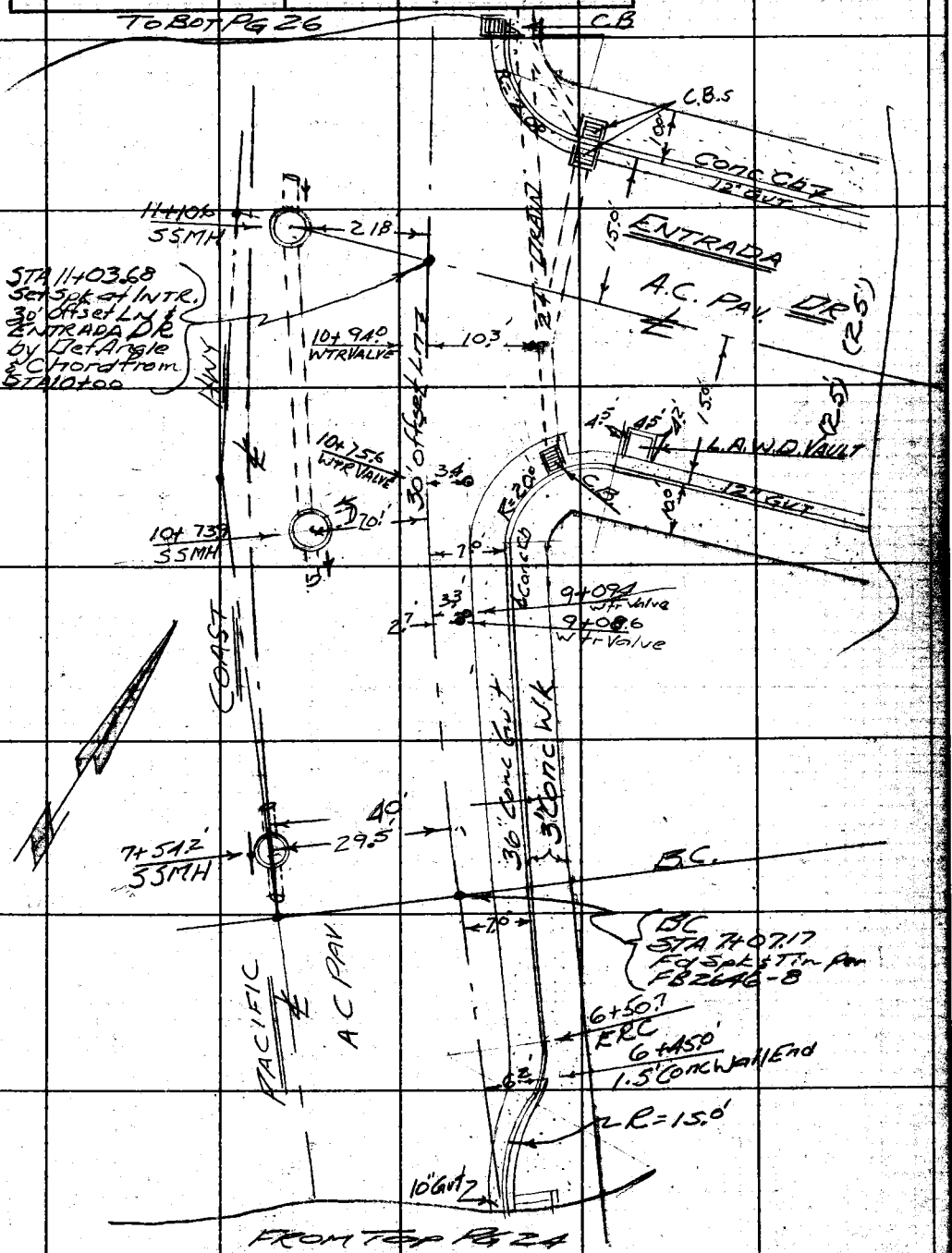

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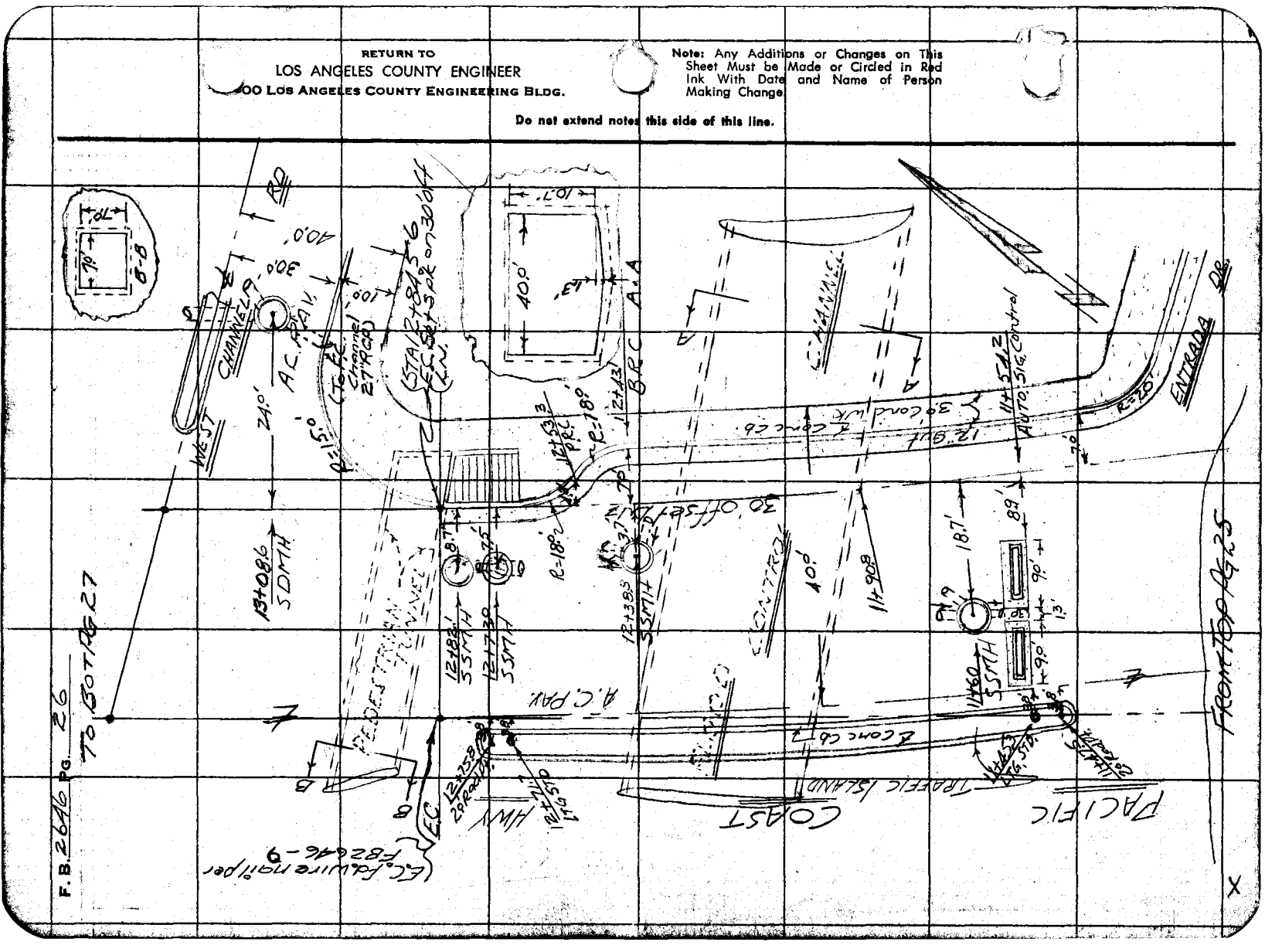

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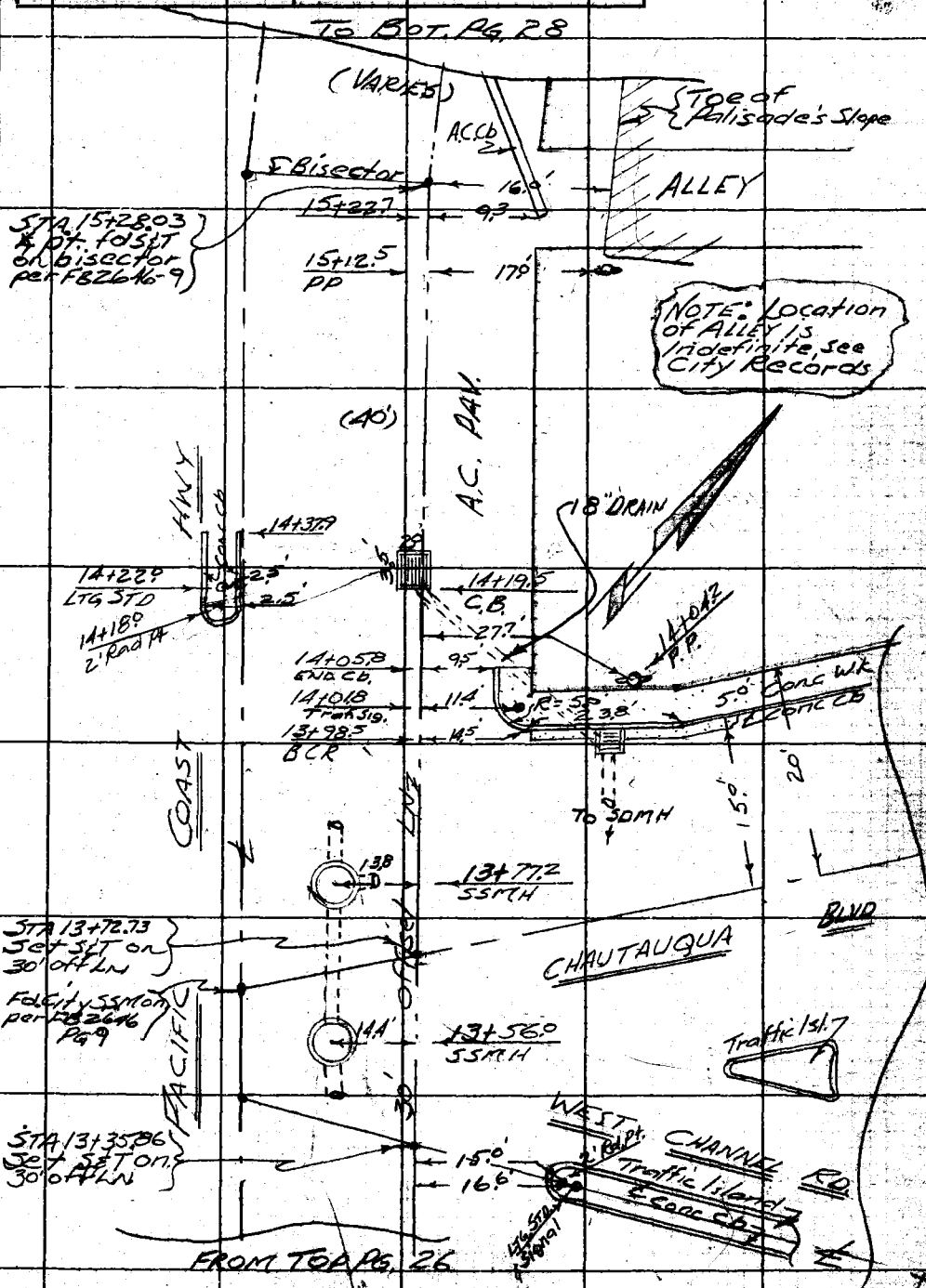

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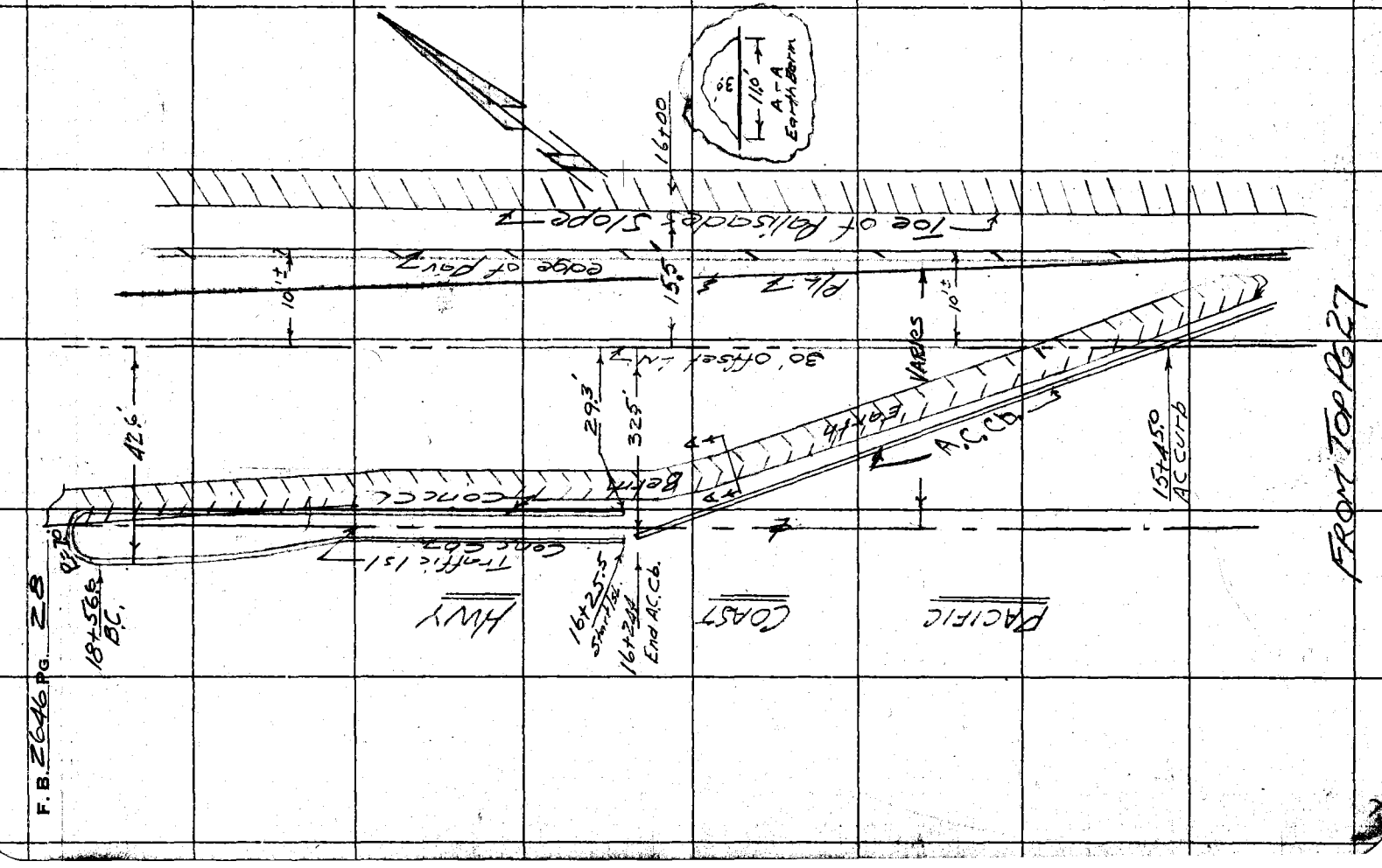
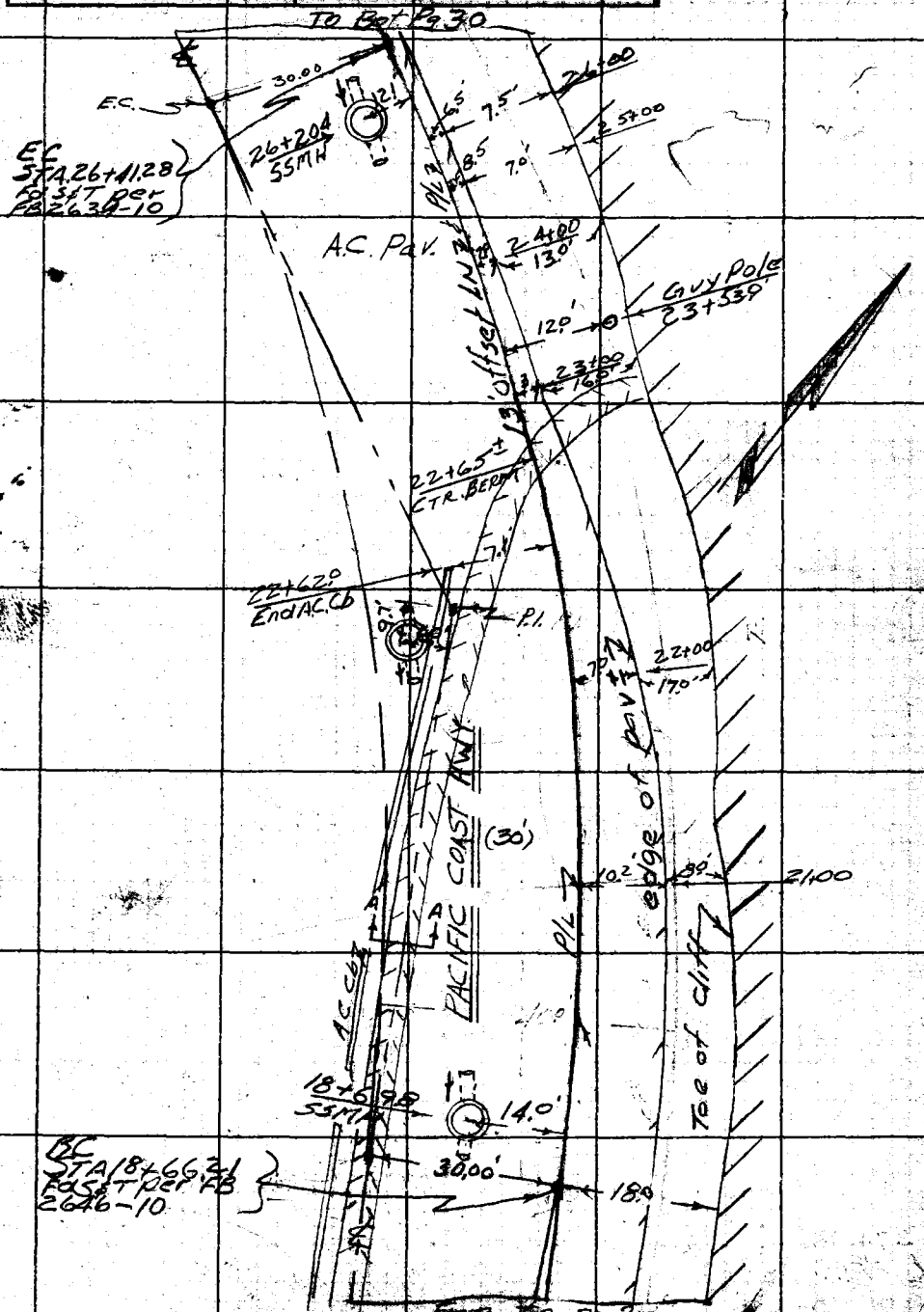


FRONT TOP PG 27

F. B. 2646 PG. 28

Notes Ck'd by	Survey of Wtr Works Dist #29
Map No.	JN 5294.16 Tape Std. °F
Office Work	Surveyed by Mankey Jr.
Checked	Notes VOGE Date 6-1-60
Date	Indexed A. C. Johnson

F. B. 2646 PG. 29



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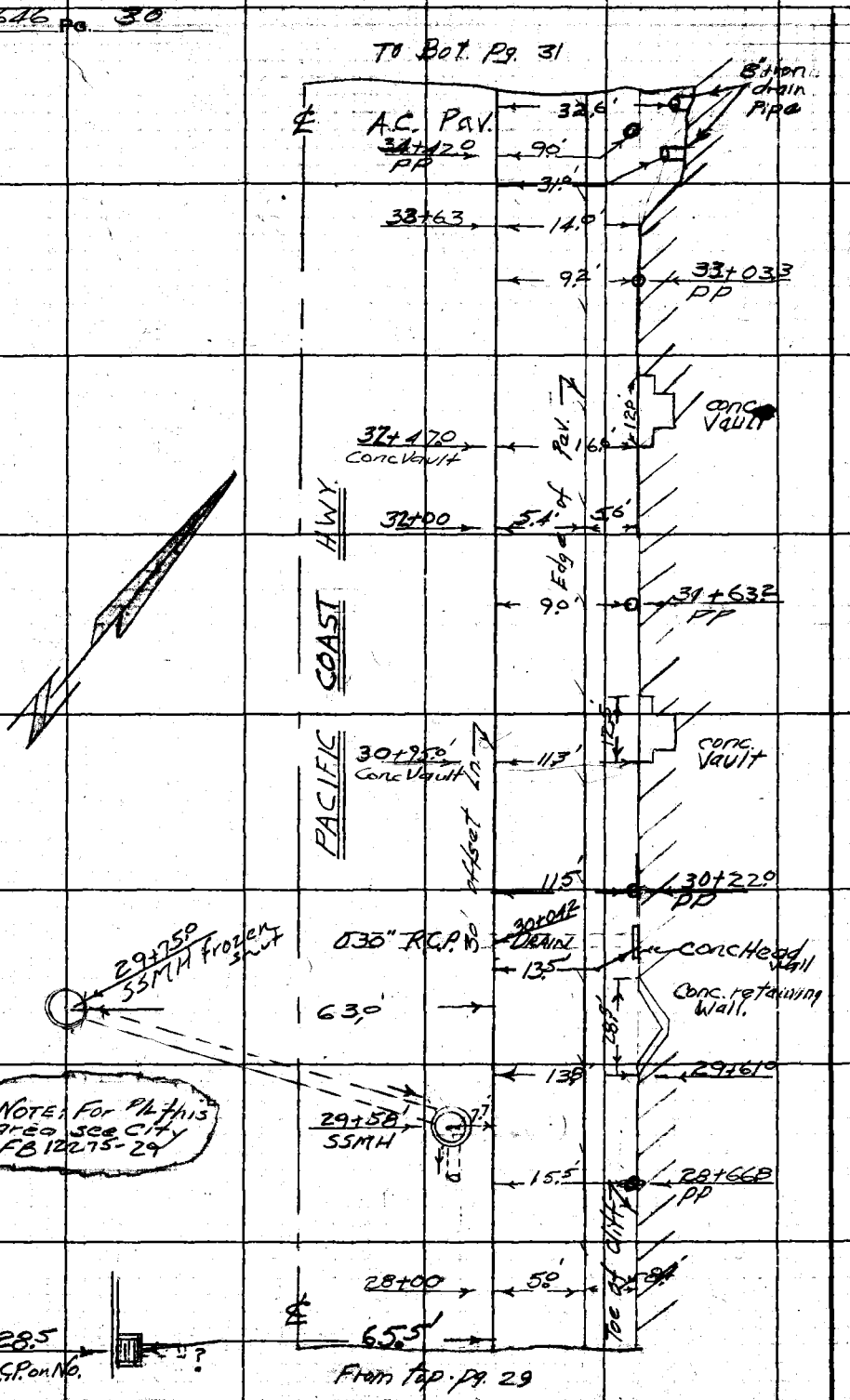
763098 CE #247—7-53

F.B. 2616 Pg. 30



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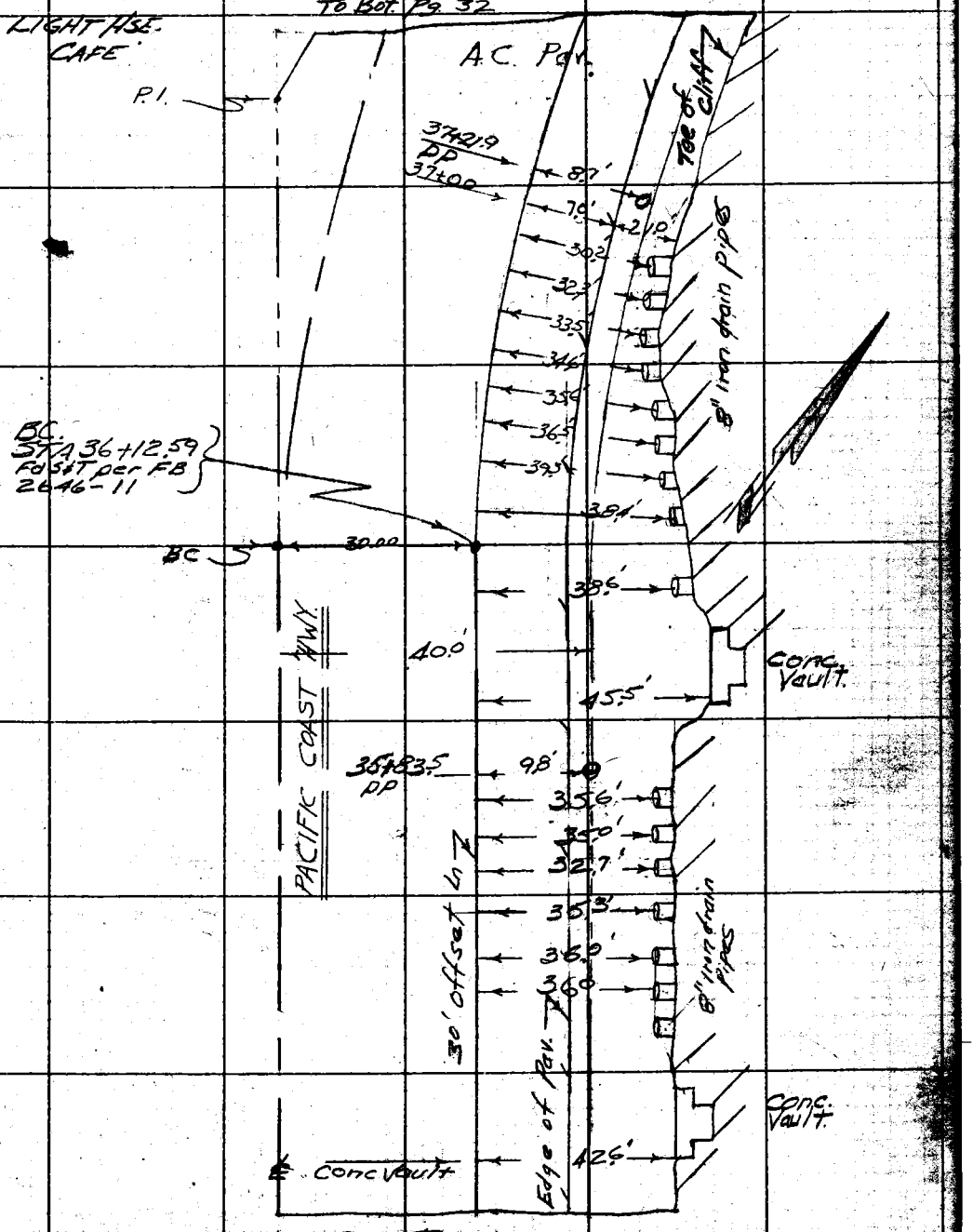
Notes Ck'd by	Survey of Str. Works Div. 29 F.B. 2646 Pg. 31
Map No.	JN 5294.16 Tape Std °F
Office Work	Surveyed by Mankey Jr.
Checked	Notes VOGE Date 6-7-60
Date	Indexed C. Johnson

To Bot. Pg 32



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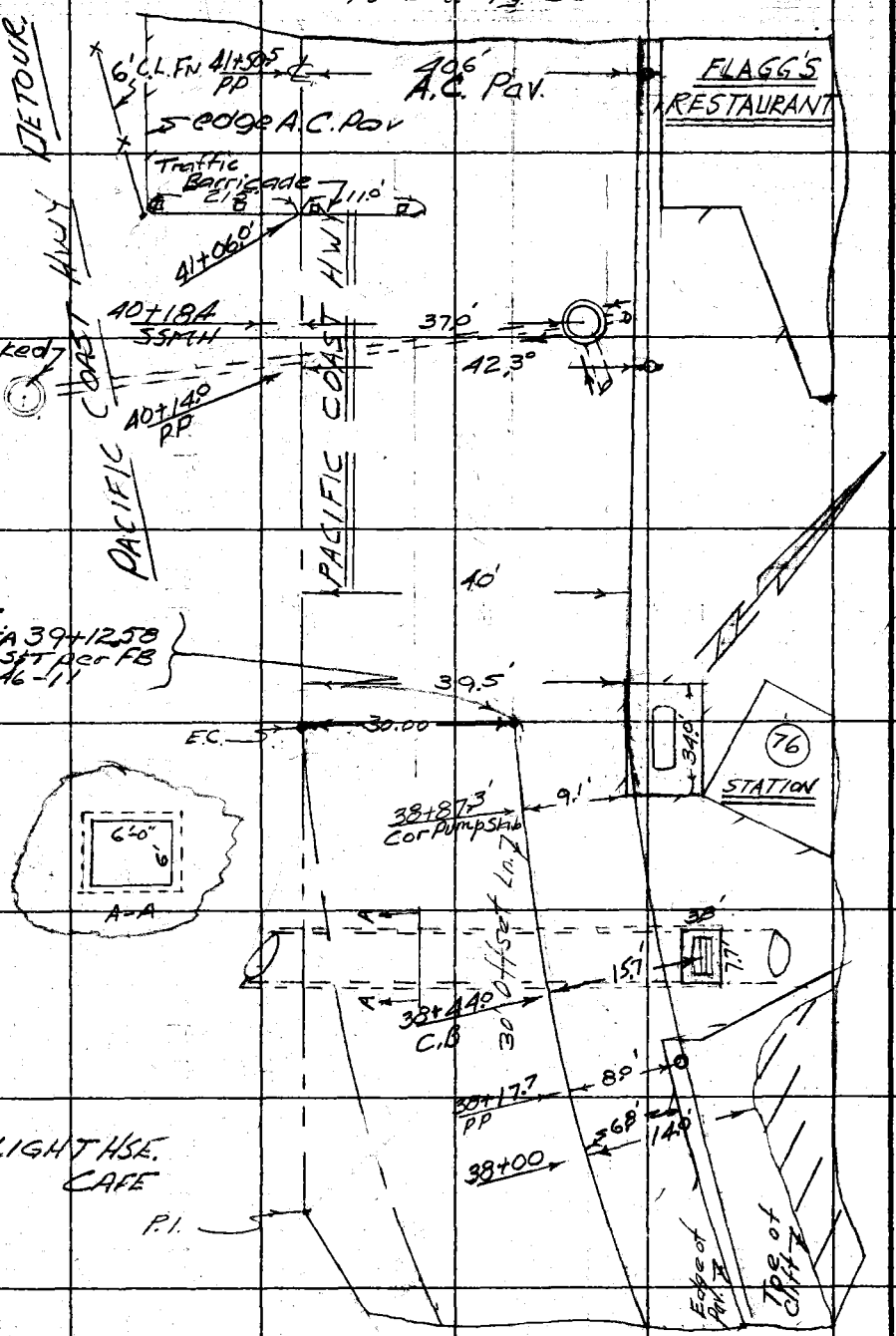
76008 CE #247—7-58

F. B. 2646 PG. 32

To Bk Pg 33



From Top Pg. 31

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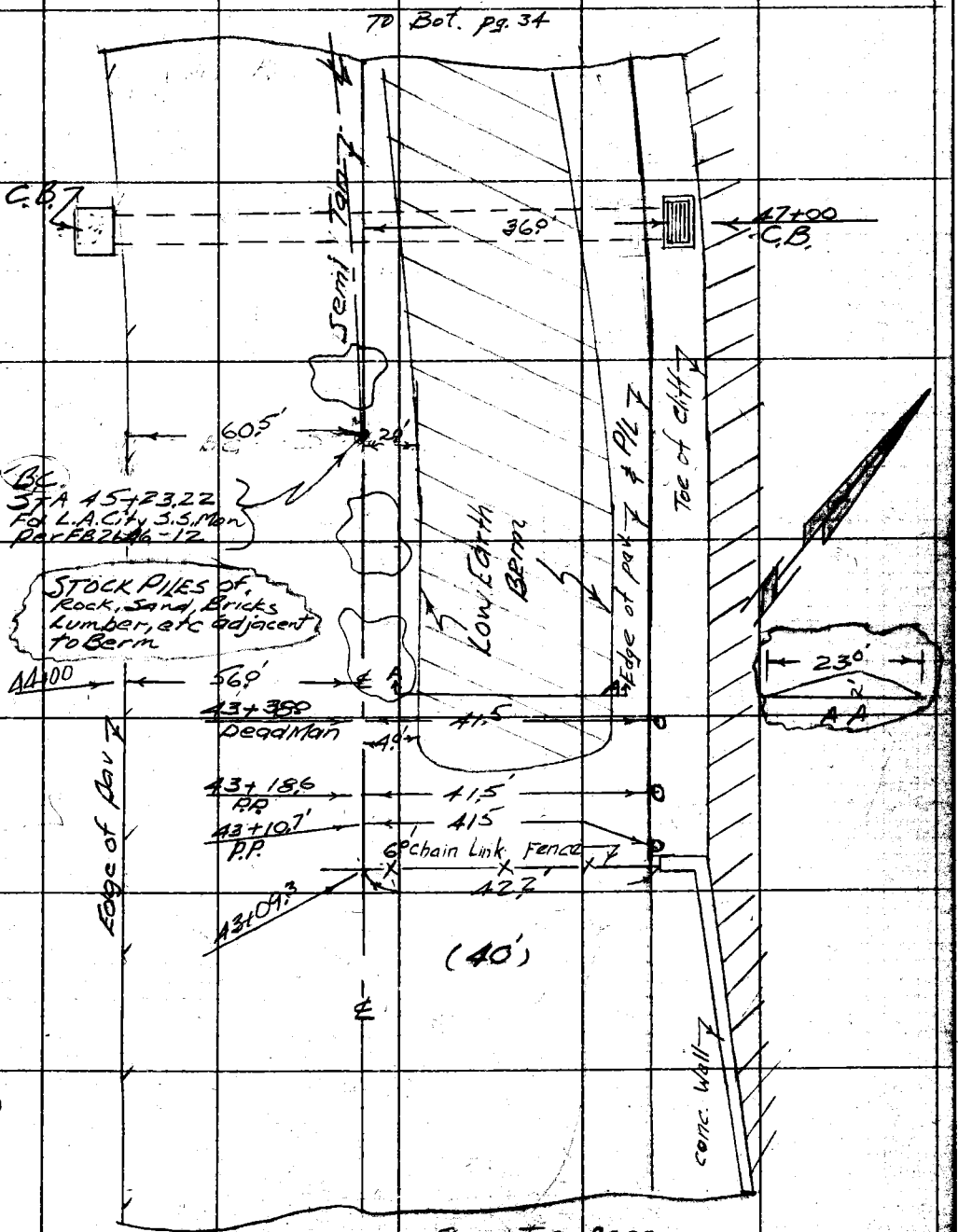
Notes Ck'd by	Survey of Wtr Works Dist #29
Map No.	JN 59416 Tape Std °F
Office Work	Surveyed by Markey Jr.
Checked	Notes VOGE Date 6-2-60
Date	Indexed C. Johnson

F. B 2646 Pg. 33

TO Bot. pg. 34



From Top pg. 32

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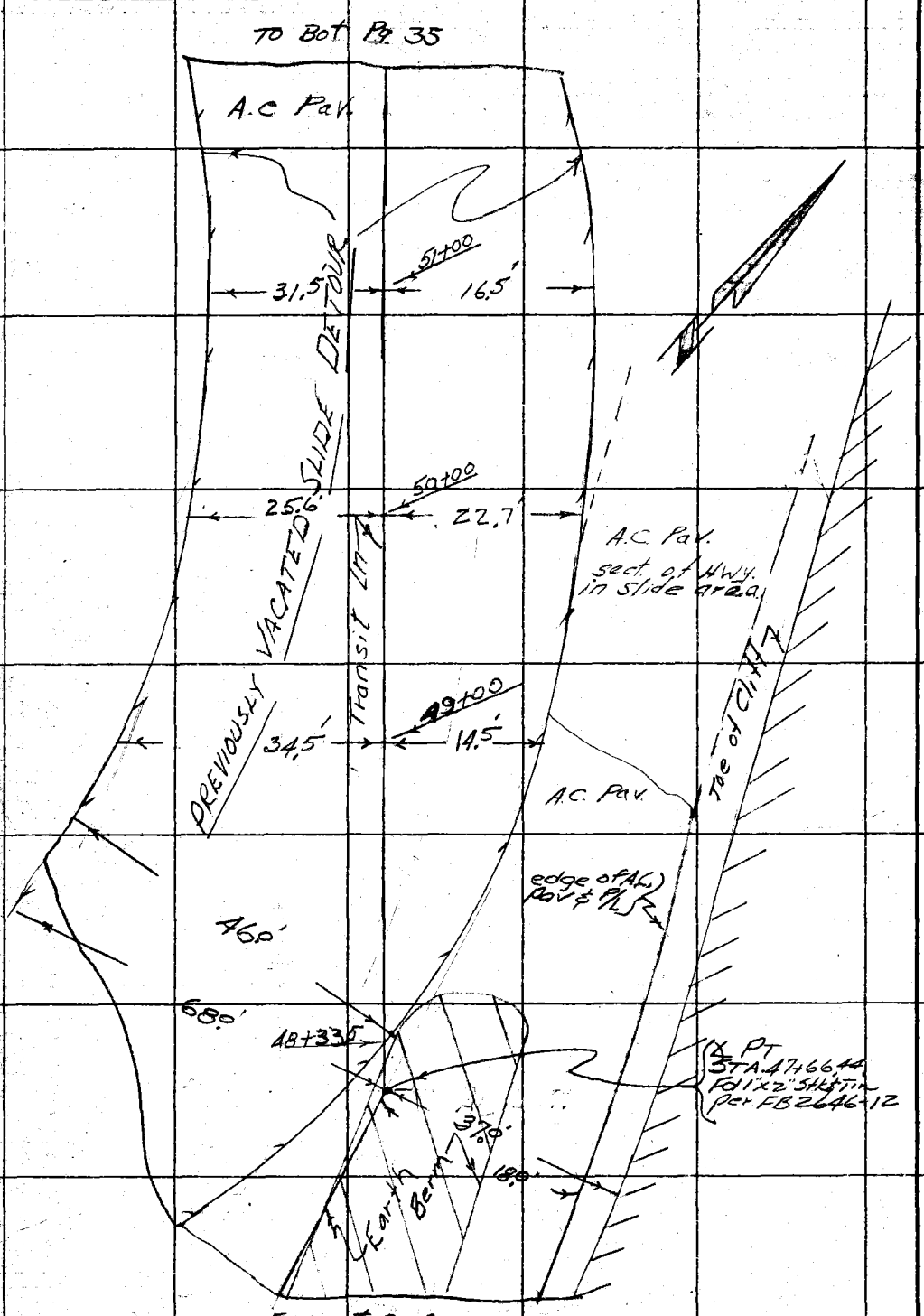
763095 CE #247—7-53

F. B. 2646 PG. 34



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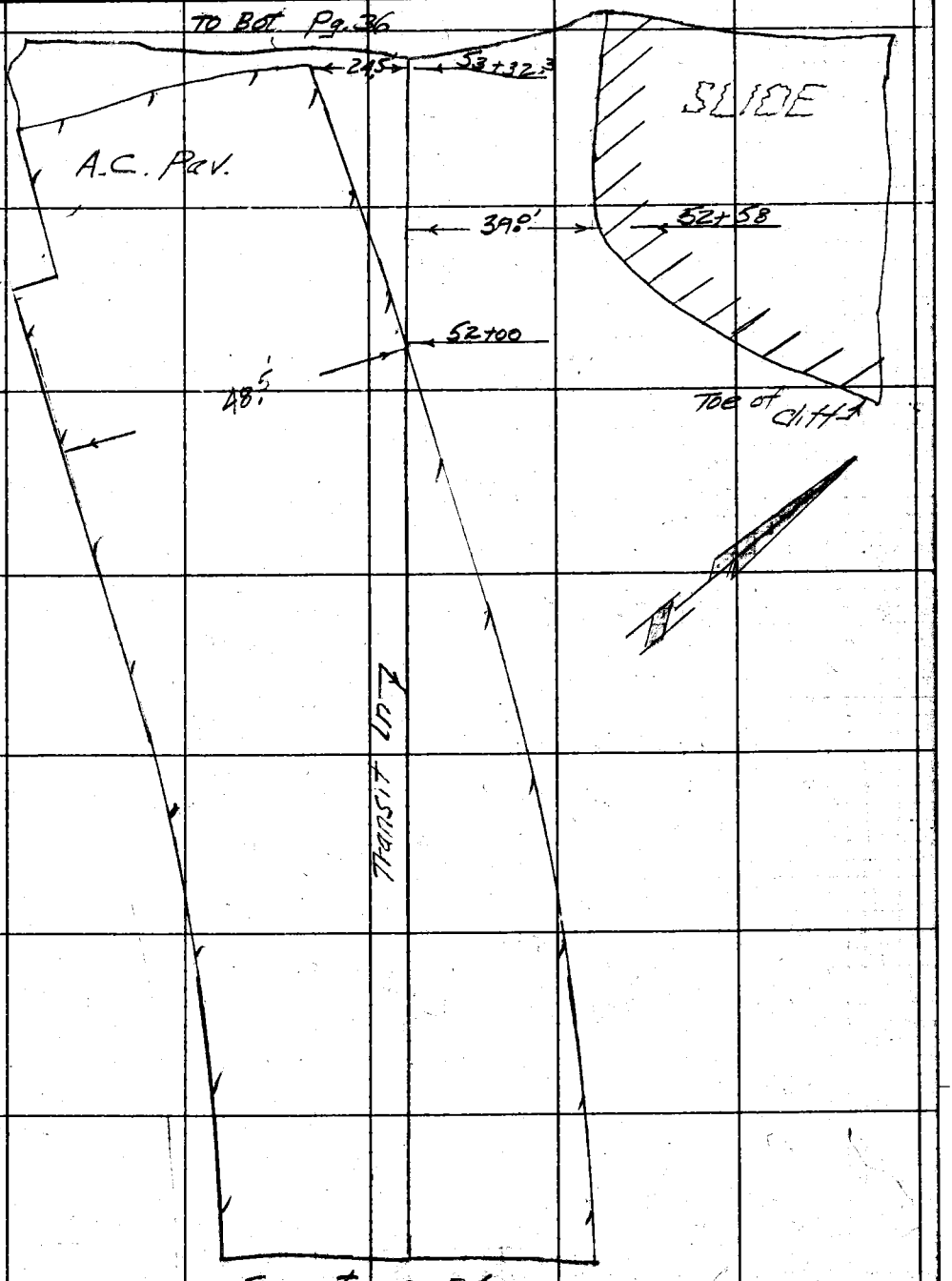
Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of Wtr. Works Dist #29
JN 5294.16 Tape Std °F
Surveyed by Monkey Wr.
Notes VOGE Date 6-2-60
Indexed C. Johnson

F. B. 2646 Pg. 35



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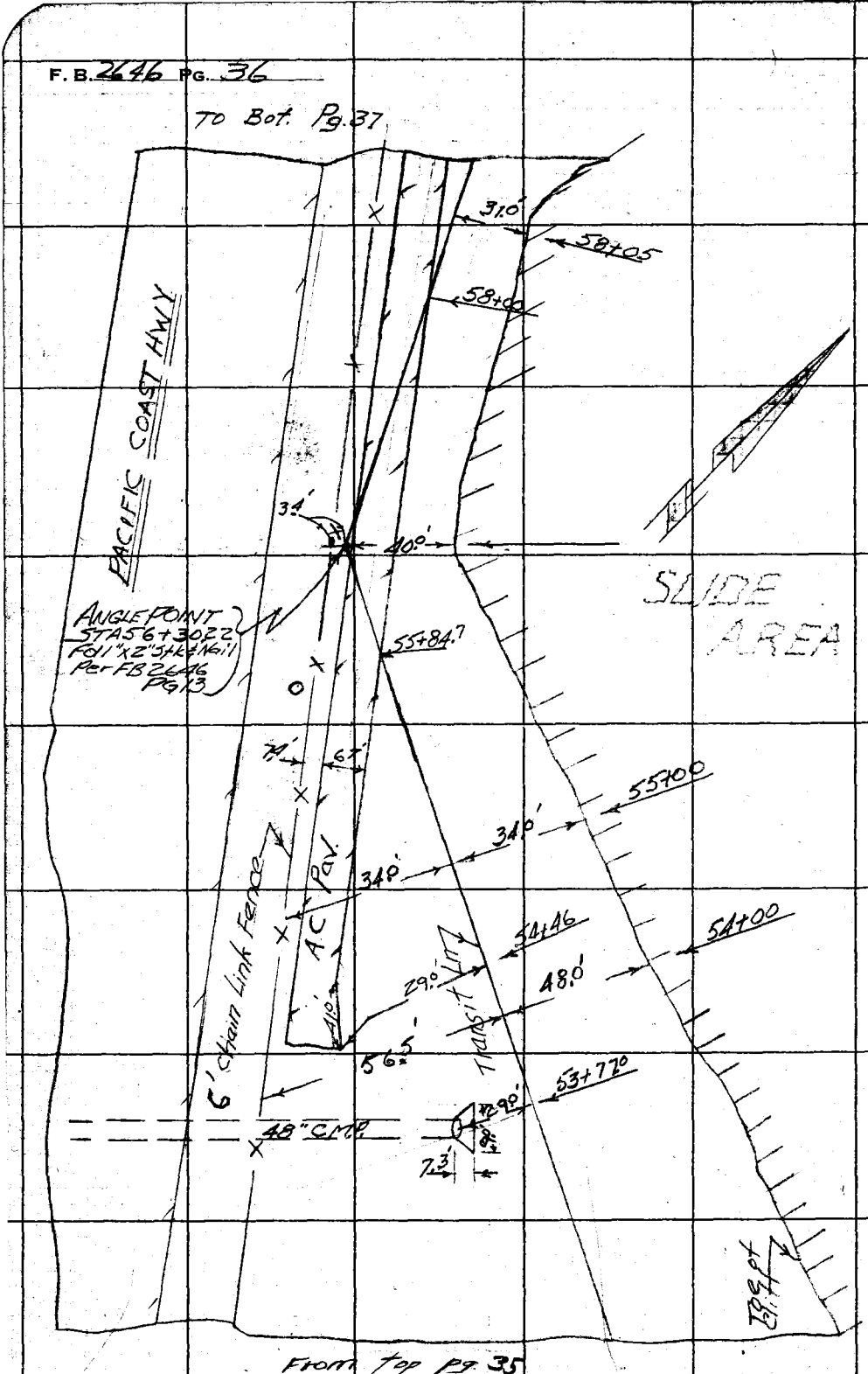
763098 CE #247—7-53

F. B. 2446 PG. 36



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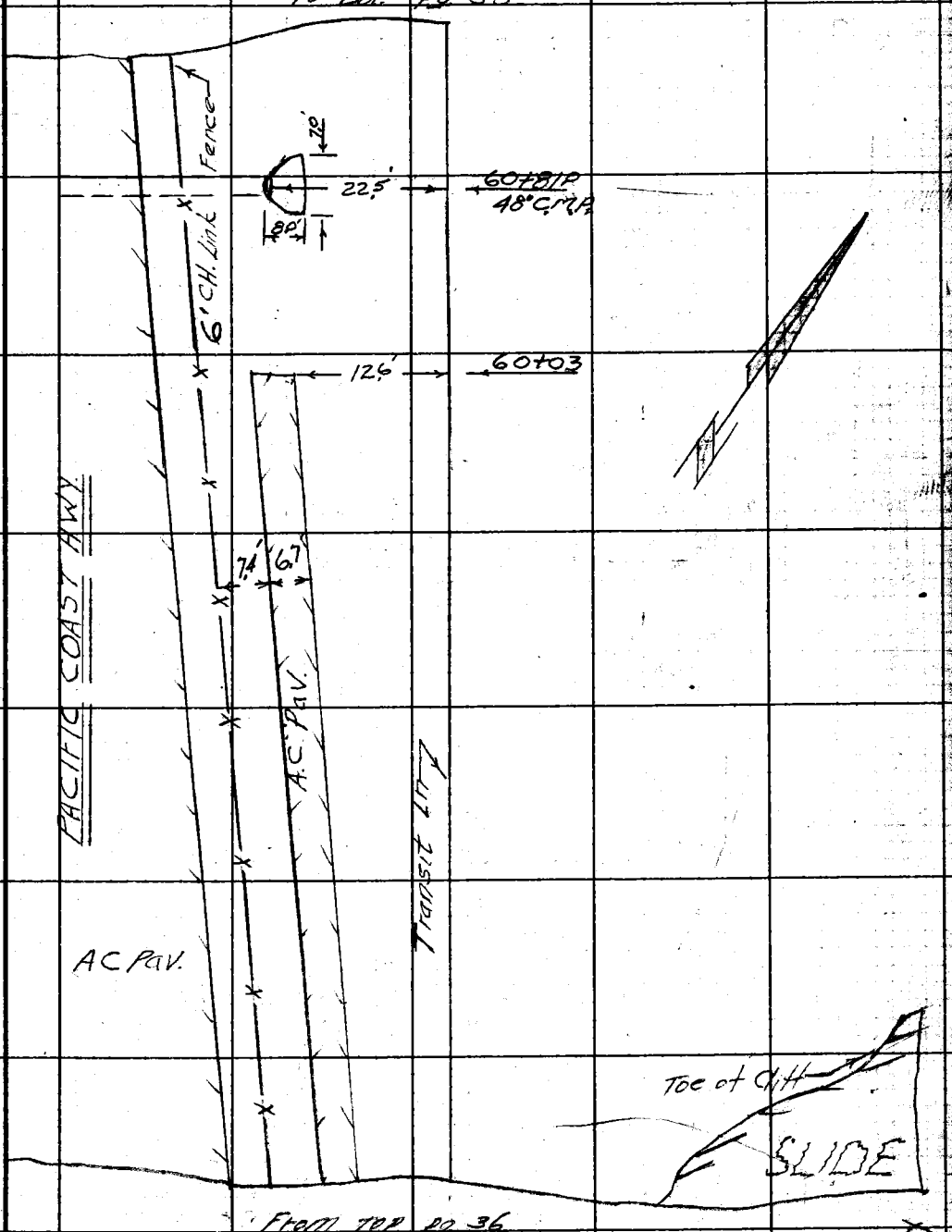
Notes Ck'd by	Survey of Wtr. Works Dist #29
Map No.	JN 5294.16 Tape Std °F
Office Work	Surveyed by Mankey Jr.
Checked	Notes Vogel Date 6-2-60
Date	Indexed A. C. Johnson

F. B. 2646 PG. 37



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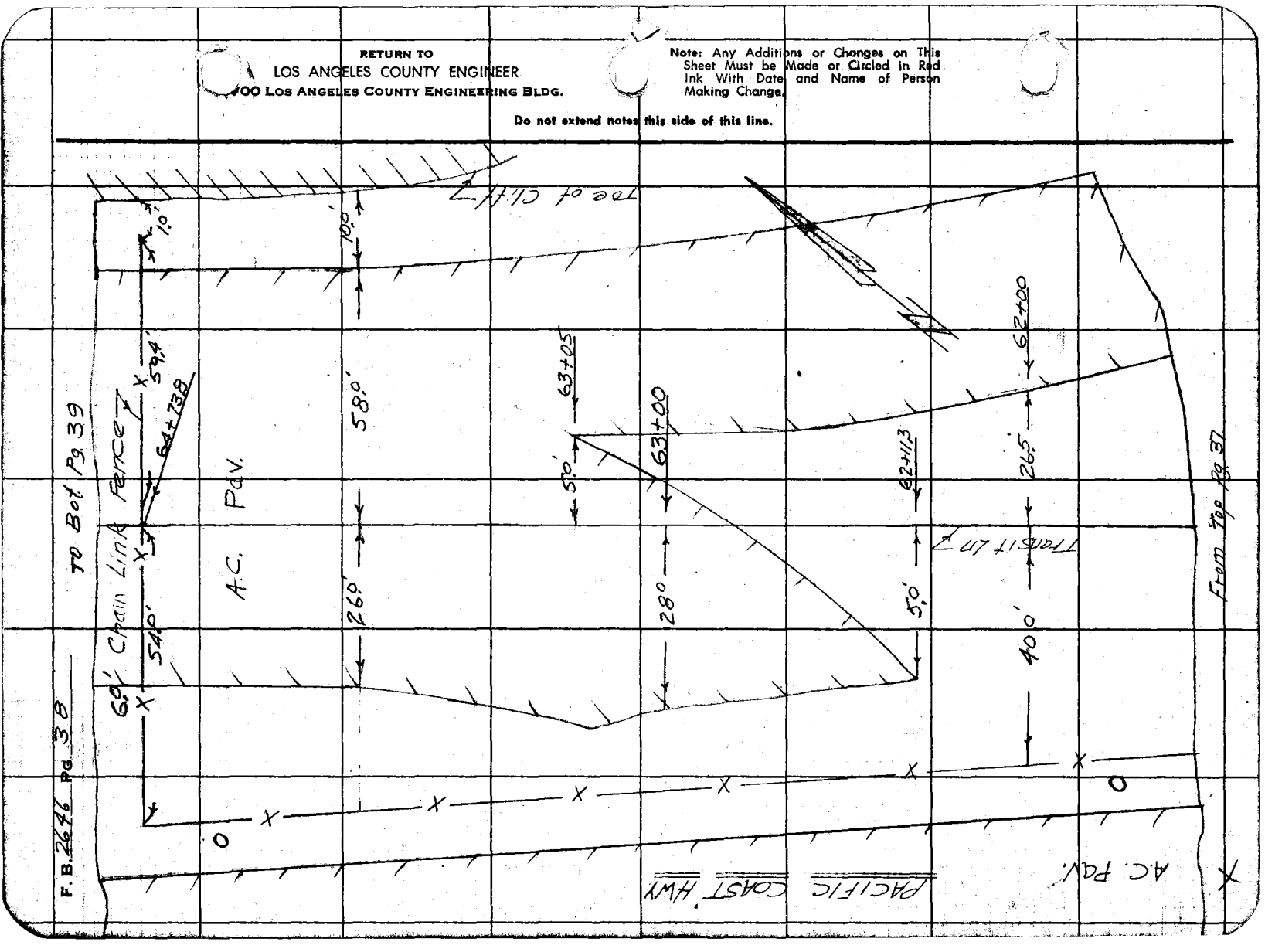
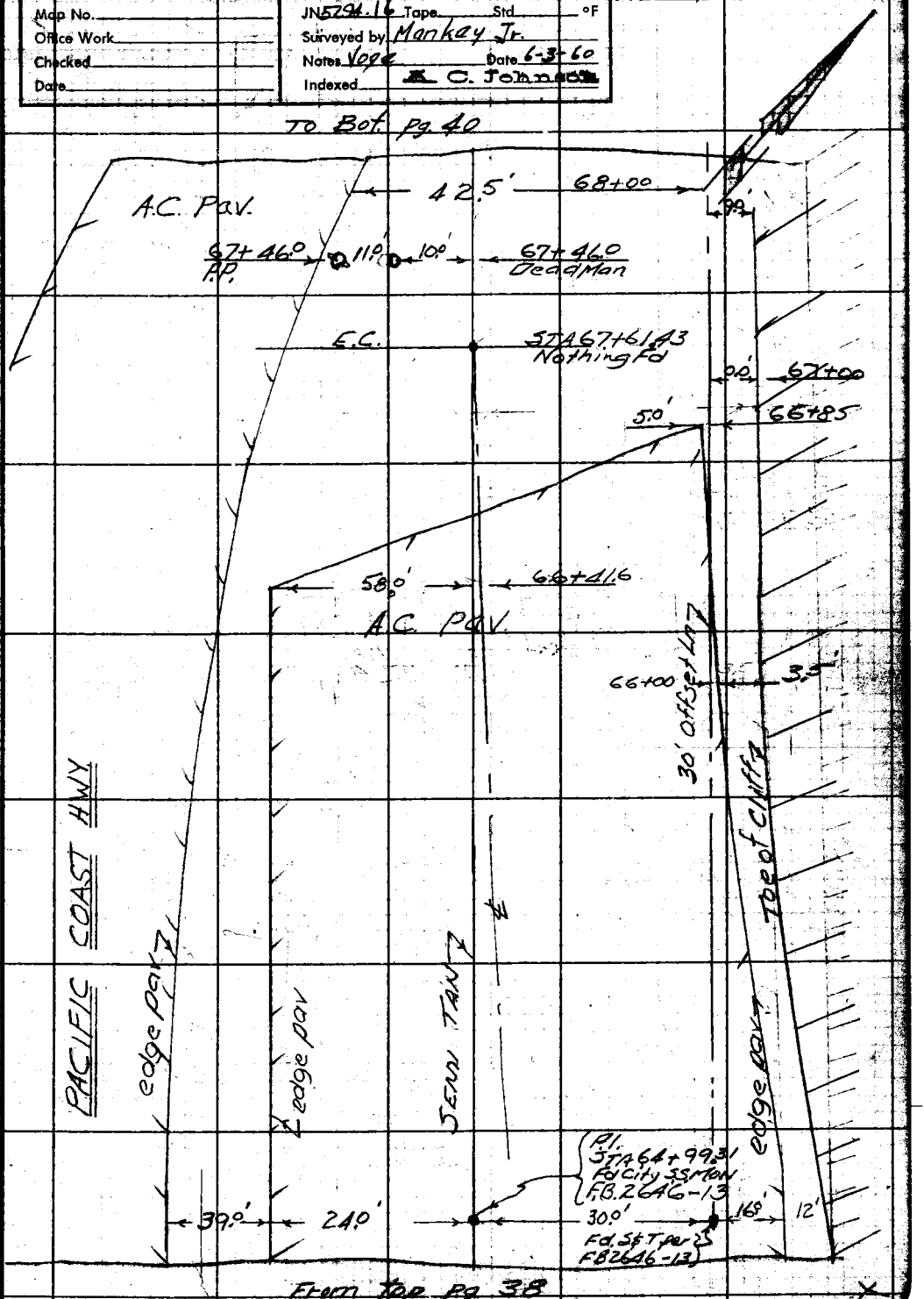


Notes Ck'd by	Survey of Wtr Works Dist #29
Map No.	JN 5294.16 Tape Std °F
Office Work	Surveyed by Mankey Jr.
Checked	Notes Vogt Date 6-3-60
Date	Indexed C. Johnson

F. B. 2646 PG. 39



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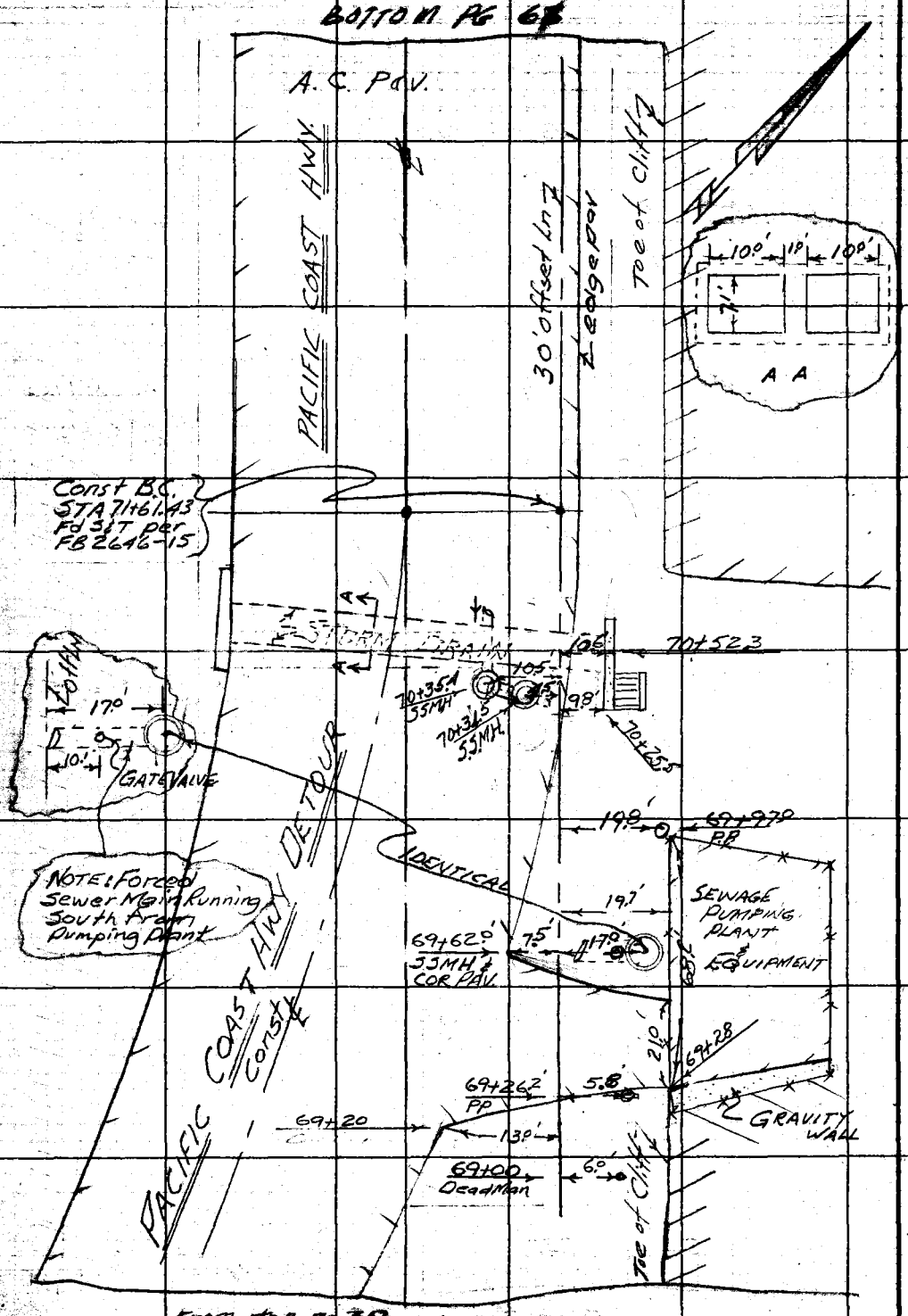
763095 CE #247—7-58

F.B. 2646 Pg. 40

BOTTOM PG 6

71+61.5



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F. B. 2646 Pg. 41

Profile No. ____ X-Sec. No. ____ | Notes Red. ____ Date ____ Notes Chkd. ____ Date ____ | Plotted ____ Date ____ Checked ____ Date ____ | Job No. 5294.16 Division No. ____ Survey of Wtr. Works Dist #29 Survey by Mankey Jr. Notes ETM Jr. Date 6-3-60 Map No. ____ Indexed C. Johnson Date ____

JN 5294.16

WATER WORKS DISTRICT #29

X-SECTIONS
on
PACIFIC COAST HIGHWAY
from
THE WEST BOUNDRY of CITY SANTA MONICA
to
THE WEST side of PALISADES SLIDE AREA

ABOUT 1.3 MILES

Mankey Jr.
Voge
Swann
L. Jones

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

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76L-298 S & E #307—1-56

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.	PACIFIC COAST HWY LT. & SO.	30' offset LN. RT. & NO.
BM 48-31				16.58'	BM 48-31 El 16.581' FB 1369-32 USC & GS Disc, G-50-1925 in 12"x12" Conc. Mon. 2.3' S.W. of S.W. Cb. Pali Sades Beach Rd. on L.A. City & Santa Monica City Bdry. LN., 1300' S.E. of W. Channel Rd	
1+00 City LN. Topog. Pg 24				16.4'		
"				15.91'		6.9' Gut
"				16.74'		" Cb
"				16.5'	30' pav	
1+54.0' B.C.		" " "				
2+00				16.5'		
"				16.12'		6.9' Gut
"				16.94'		" Cb.
"				17.1'	30' pav	
3+00				17.1'		
"				16.71'		6.9' Gut
"				17.57'		" Cb
"				17.7'	30' pav	
4+00				17.7'		
"				17.25'		6.9 Gut
"				18.11'		" Cb
"				18.2'	30' pav	
4+50.78 E.C.		Topog Pg 24				

F. B. 2646 Pg. 42
Job No. 5294.16 Division No. Notes Red. Plotted Profile
Survey of Wtr Works Dist #29 Date Date No. X-Sec.
Survey by ETM Jr. Notes Mankey Jr. Notes Chkd. Checked No.
Indexed E. C. Johnson Date Date Date

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.	PACIFIC COAST HWY LT & So.	⊼ = 30' off LN. RT & No
5+00				18.0'		⊼
"				17.59'		6.9 Gut
"				18.45'		" Cb
"				18.6'	30' pav.	
5+88.3'				17.66'		6.9' Gut.
"				18.55'		" Cb.
6+03.4'	Pedestrian Subway.		PG 24	FLOOR EL. 9.9'		⊼ Tunnel floor
6+11				17.69'		⊼ Gut
"				18.55'		⊼ Cb
6+50.7				17.61'		7.0' Gut
"				18.43'		" Cb
7+00				17.8'		⊼
"				17.40'		7.0' Gut
"				18.25'		" Cb
"				18.4'	30' pav	
7+07.17'	B.C.		PG 25			
7+54.2'	SSMH			Rim EL. 18.27'	29.5' Rim	
	INVERT on 20" Inlet on W.			9.34'	8.93 Rim to F. L. of 20" Inlet	
	" " " Outlet to E			9.32'	8.95 " " " " " Outlet	

Profile Notes Red. ____ Plotted ____ Job No. 5294.16 Division No. ____ F. B. 2646 Pg. 43
No. ____ Date ____ Date ____ Survey of Wtr. Works Dist #29
X-Sec. Notes Chkd. ____ Checked ____ Survey by Markey Jr. Notes E.T.M.W. Date 6-3-60
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Johnson Date ____

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.	PACIFIC COAST HWY	
					LT & SO	⊼ = 30' LN RT & NO
8+00				17.6'		⊼
"				17.11'		7.0' Gut
"				18.00'		" Cb
"				18.1'	30' pav	
9+00				17.0'		⊼
"				16.55'		7.0' Gut
"				17.42'		" Cb
"				17.6'	30' pav	
10+00				16.1'		⊼
"				15.75'		7.0' Gut
"				16.60'		" Cb
"				16.7'	30' pav	
T.P.				16.65'		
E. 2nd N. E. C.R. Coast Hwy & Entrada Dr.				16.06'		7.0' Cb
" " " " " " "				15.16'		" Gut
N " " " " " "				14.14'		Cb
" " " " " "				13.72'		Gut
10+73.9 SSMH				Rim EL 16.25'	20.1' Rim	
INVERT on 18" Inlet from W.				9.72'	6.53' Rim to flow line 18" Inlet on W.	
" " 20" " " N.				9.73'	6.52' " " " " 20" " " N.	
" " 20" Outlet to E				9.70'	6.55' " " " " " Outlet to E.	

F. B. 2646 Pg. 44
Survey of Wtr Works Dist #29
Survey by ETM Jr. Notes Mankey Jr.
Indexed C. Johnson Date
Job No. 5294.16 Division No.
Notes Red. Date
Notes Chkd. Date
Plotted Date
Checked Date
Profile No.
X-Sec. No.

76L-298 S & E #307—1-56

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Do not extend notes this side of this line.

Profile Notes Red____ Plotted____ Job No 52W1503 Division No____
No____ X-Sec. Notes Date____ Date____ Survey of Whittier Ridge Date 6-3-60
No____ Date____ Notes Chkd____ Checked____ Survey by Mapkey Notes Date 6-3-60
Date____ Map No.____ Indexed____ Date____

F. B. 2646 Pg. 45

STATION	B. S.	H. I.	F. S.	ELEV.	PACIFIC COAST HWY
					Lt & So T=(30)LN, R=1410
		(PG 25)			T
11+03.68	Intr. Coast Hwy & Avenue			15.7'	10' pav
				15.0'	20' pav
				14.1'	
"				16.3' Rim El	30' pav
11+10.6	SSMH			16.27	21.8' Rim
	INVERT on 18" Inlet on W.			9.90'	6.37' Rim to F.L. 18" Inlet on W.
	" " " Outlet to E.			9.89'	6.38 " " " " Outlet to E.
	Nend. NWCL Coast Hwy & Avenue			14.78'	CB
	" " " "		"	14.38'	Gut
	W " " "		"	15.98'	7.0' CB
	" " " "		"	15.51	" Gut
11+60.0	SSMH			16.59'	18.7' Rim
	INVERT on 12" Inlet on W.			10.24'	6.33' Rim to F.L. 12" Inlet on W.
	"	" 12" " " N.W.		10.23'	6.34' " " " " " " " N.W.
	"	" 18" Outlet to E.		10.17'	6.40' " " " " 18" Outlet to E.
		(PG 26)			T pav
11+90.8	INTR Coast Hwy & F.C. Channel			16.8'	T NOTE: Channel
	Channel at East Wall			3.4'	(See Pg 26) T GR = 2.2% ±
	"	"	"	4.3	RT 40' Conc Channel Floor E. to W.

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.	PACIFIC COAST HWY	
					LT. & So	⊼ (30') LN. RT & No
12+00				16.9'		⊼
"				16.62'		7.0' Gut
"				17.07'		" Cb
"				16.6'	30' pav.	
BM Y1051 (Fd)				16.53'	BM Y1051 EL	No Ref. (Y1051-1960)
					Coast Hwy & West Channel Rd. U.S.C. & G.S. Disk in West side Flood Control Channel Bridge 3.5' So. of So. Cb, Coast Hwy & 100'± East West Channel Rd. Prod.	
12+38.8' SSMH				Rim EL 16.70'	3.7' Rim	
INVERT on		8" Inlet on	N.E	3.45'	13.25 Rim to F.L.	8" Inlet N.E.
"	"	8" Outlet to	N.W.	3.25'	13.45 " " "	" Outlet N.W.
12+43.1 BRC				16.45'		7.0' Gut
"				16.88'		" Cb
12+65				16.26'		⊼ Gut
"				16.36'		⊼ Cb
12+73.0 SSMH				Rim EL 16.66	7.5' Rim	
	12" CAST IRON PIPE on W.				Reduces in MH	
	18" " " " " E.					
12+82.1 SSMH				Rim EL 16.69'	8.7' Rim	
Flooded up to Gate Valve						

F. B. 2646 PG. 46 Job No. 5294.16 Division No. Notes Red. Plotted Profile
Survey of Wtr Works Dist #29 Date Date No. X-Sec.
Survey by ETM Jr. Notes Mankey Jr. Notes Chkd. Checked
Indexed G. Johnson Date Date Date No.

76L-298 S & E #307—1-56

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	PACIFIC COAST HWY. LT & So.	π = (30) LN RT & No
12+84.5	Pedestrian Tunnel		PG26	Tun. Floor 8.0		π
12+84.56	E.C.		PG26			
	E. end Neck Coast Hwy & W. Channel			16.81'		π Cb
"	"	"	"	16.30'		π Gut
N	"	"	"	16.56'		Cb
"	"	"	"	16.20'		Gut
13+08.6	S.D.M.H.			Rim EL 16.29'		24' Rim
					7.70' Rim to flow line	
13+35.86	Intr. Coast Hwy & W. Channel Rd.		(PG27)	17.1'		π
"				16.96'		13' Gut (at Trnf. Isl.)
				17.54'		" Cb (" " ")
"				17.4'	30' pav	
13+56.0	S.S.M.H.			Rim EL. 17.46'	14.4' Rim	
	INVERT on 22" Inlet on W.			11.86'	5.60' Rim to flow line of 22" V.C.P.	
	" " 12" Outlet to E.			11.08'	5.38' Rim to Inside Top of 12" "	

Profile No. ____ Notes Red. ____ Plotted ____ Job No. [illegible] Division No. ____
X-Sec. No. ____ Date ____ Date ____ Survey of Wtrworks Dist #29
Notes Chkd. ____ Checked ____ Survey by Mankey Notes ETMD Date 6-3-60
Date ____ Date ____ Map No. ____ Indexed A. John Date ____

F. B. 2646 Pg. 47

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.	PACIFIC COAST HWY LT & SO	⊼ = (30) LN RT & NO
13+72.73 INTR. COAST HWY & CHAUTAUQUA			(PG 27)	17.4'		⊼
				17.3'		15' pav.
				17.5'		30 pav
				17.5' Rim EL	30' pav	
13+77.2 S.S.M.H.				17.58'	13.8' Rim	
INVERT on 22" Inlet on W.				11.93	5.65' Rim to flow line of 22" V.C.P.	
" " 10" " " N.				12.72	4.86' " " " " " 10" "	
" " 22" Outlet " E.				11.92	5.66' " " " " " 22" "	
BM 48-29 (FD)				(out) 16.39'	BM 48-29 EL. 16.391' FB 1369-31	
				(in) 16.38'	PACIFIC COAST HWY & CHAUTAUQUA BLVD & Intr. STD. SUR. MON. in Well	
13+98.5 N. end N.W. CR. COAST Hwy & CHAUTAUQUA				18.23'		14.5' Cb
" " " " " " "				17.62'		" Gut
14+03.5 W " " " " "				18.35'		9.5' Cb.
" " " " " " "				17.[illegible]4'		" Gut
TBM				17.86'	TBM EL 17.86' FB 2646-48 COAST HWY & CHAUTAUQUA BLVD N.W. COR. Spk in Cb. 10' N. of N. end Cb. Ret at Catch Basin	
13+98.5 INVERT on 18" DRAIN (R.C.P.)				14.59'	17.24' Grate EL. 2.65 Grate to F.L. 14.59	22.5' F.L. of 18" pipe
14+19.5 INVERT on 18" DRAIN R.C.P.				14.72'	17.07 Grate EL. 2.35 Grate to F.L. 14.72'	⊼ F.L. of 18" pipe

F. B. 2646 PG. 48

Job No. 529416 Division No. Notes Red. Plotted Profile

Survey of Wtr Works Dist #29 Date Date No. X-Sec.

Survey by E.M. Notes Checked Date No.

Indexed Date Date

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.	PACIFIC COAST HWY	
					LT & So	⊼ = (30') LN RT & No.
15+00				18.2'		⊼
"				18.1'		10' pav
"				18.8'	30' pav	
15+22.7	A.C. Cb			18.2'		9.3' Gut
"				19.0'		" A.C. Cb.
15+28.03	∡ Pt. in COAST HWY (PG 27)					
15+45.0	A.C. Cb.			18.8'		⊼ Gut
"	" "			19.5'		⊼ Cb
16+00				19.3'		⊼
"				18.9'		10' edge pav
"				19.6'		15.5 toe slope
"				19.7'	30' pav	
16+24.4	End A.C. Cb			20.1'	32.5' Gut	
"				20.8'	" Cb	
16+25.5	Start Trat. Isl			20.15'	29.3' Gut	
"				20.49'	" Cb	
17+00				20.5'		⊼
"				20.1'		10' edge pav
"				20.85'	29'± Gut (Trat Isl)	
"				21.22'	" Cb (" ")	

Profile Notes Red. ____ Plotted ____ Job No. 5296.16 Division No. ____ F. B. 2646 Pg. 49
No. ____ Date ____ Date ____ Survey of Wtr. Works Dist #29
X-Sec. Notes Chkd. ____ Checked ____ Survey by Mankey Notes ETMcl Date 6-6-60
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Johnson Date ____

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.	PACIFIC COAST HWY LT. & SO.	⊼ (30) LN RT. & NO.
18+00				21.8'		⊼
"				21.1'		10' edge pav
"				21.80'	29'± Gut Traf. Isl.	
"				22.18	" Cb	" "
18+66.21 B.C.		PG 29				
18+69.8 SSMH				Rim F.L. 22.71	14.0' Rim	
INVERT on 22" Inlet on W				12.98'	9.73' Rim to F.L. on 22" Inlet	
" " " Outlet to E				12.97'	9.74' " " " " " Outlet	
TP				21.71'		
19+00				23.0'		⊼
"				22.3'		10' edge pav
"				22.9'	30' pav	
20+00				23.2'		⊼
"				22.6'		10' edge pav
"				23.6'		18' toe slope
"				23.0'	30' pav	
21+00				23.0'		⊼
"				22.5'		10.2' edge pav
"				22.8'	30' pav	

F. B. 2646 Pg. 50
Job No. 5294.16 Division No. Notes Red. Plotted Profile
Survey of Wtr. Works Dist #29 Date Date No. X-Sec.
Survey by ETM Jr. Notes Mankey Jr. Notes Chkd. Checked No.
Index C. Johnson Date Date Date

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.	PACIFIC COAST HWY LT & SO	⊼ = 30' LN RT & NO
22+00				22.8'		⊼
"				22.7'		7.0' edge pav
"				22.7'	30' pav	
TBM				21.33'	TBM EL 21.33' FB 2646-51 PACIFIC COAST HWY. (No. Side) L.A. City STD. SUR. MON at P.I. - 0.16' Mi. West of West Channel Rd. in Well -	
	S.S.M.H. 6.0' So. & 9.7' East of P.I. 0.16' Mi. West of West Channel Rd			Rim EL. 22.68'	Rim	
	INVERT on 20" Inlet on W.			13.56'	9.12' Rim to F.L. of 20" Inlet	
	" " 22" Outlet to E.			13.53'	9.15 " " " " 22" Outlet	
23+00				22.6'		⊼
"				22.5'		3' edge pav
"				23.4'	12.5' pav	
"				22.9'	30' pav	
24+00				22.7'		⊼
"				22.0' 23.2'	3.0' pav	2' edge pav
"				22.7'	30' pav	
25+00				21.6'		⊼
"				21.2'		8.5' edge pav
"				22.0'	30' pav	
26+00				21.4'		⊼
				20.9'		6.5 edge pav

Profile No. ____ Date ____ Notes Red. ____ Date ____ Plotted ____ Job No. 5294.16 Division No. ____ F. B. 2646 PG. 51
X-Sec. No. ____ Date ____ Notes Chkd. ____ Date ____ Checked ____ Date ____ Survey of Wtr Works Dist #29 Survey by Mankey Jr. Notes ETMdr Date 6-6-60 Map No. ____ Date ____ Indexed ____ Date ____

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.	PACIFIC COAST HWY
					LT & SO. ⊼ (30) LN RT & NO.
26+00				21.7' Rim EL	30' pav
26+20.4 SSMH				21.71'	12' Rim
INVERT on 20" Inlet on W.				14.20'	7.51' Rim to F.L. 20" Inlet on W.
" " " Outlet to E.				14.20'	7.51 " " " " Outlet to E.
26+41.8 E.C. (PG 29)					
BM 48-40 (Fd)				20.22'	BM 48-40 EL 20.219' FB 1369-38 City LA. 10696-15, STD. SUR. MON J-9B on E.B.C. Pacific Coast Hwy 0.24 M. N.W. of Channel Rd
TBM (Set)				21.37'	TBM EL. 21.37' FB 2646-52 & PG 10 for Loc. S&T 27.79' RT & NO of J-9B
27+00				20.6	⊼
"				20.2'	5.0' edge pav
"				21.5'	30' pav
27+28.5 INVERT on 18" R.C.P. (PG. 30) on N. side C.B				13.9'	65.5' 20.4' Grate EL. 6.5 Grate to F.L.
28+00				20.4'	⊼
"				20.0'	5.0' edge pav.
"				21.3'	30' pav
29+00				20.0'	⊼
"				19.[illegible]	5.0' edge pav.
"				21.1' Rim EL	30' pav
29+58.1 SSMH				20.49'	7.7' Rim
INVERT on ? Inlet on S.W.				14.94	5.55' Rim to F.L. ? Inlet on S.W.
" " 20" Outlet to E.				14.84	5.65 " " " 20" Outlet To E.

F. B. 2646 PG. 52
Job No. 52946 Division No. Notes Red Plotted Profile
Survey of Wtr Works Dist #29 Date Date No.
Survey by ETM Jr. Notes Mankey Jr. Notes Chkd Checked X-Sec.
Indexed C. Johnson Date Date No.

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STATION	B. S.	H. I.	F. S.	ELEV.	PACIFIC COAST HWY LT & SO.	⊼ = 30' LN RT & NO
30+00				20.1'		⊼
"				20.0'		5.0' edge pav
"				21.0'	30' pav	
30+04.2	30" R.C.P. DRAIN (PG 30)				(13.5' RT. { 19.82' Top Head Wall; 3.60' " " " to F.L.; 16.22	
"				15.6'	flow line	⊼ 4.68% flow South
31+00				19.9'		⊼
"				19.6'		5.0' edge pav
"				21.1'	30' pav	
T.P.				20.26'		
32+00				20.4'		⊼
"				20.1'		5.0' edge pav
"				21.4'	30' pav	
33+00				20.7'		⊼
"				20.5'		5.0' edge pav
"				21.8	30' pav	
34+00				20.9'		⊼
"				20.5'		5.0' edge pav
"				22.1'	30' pav	
35+00				21.5'		⊼
"				21.2'		5.0' edge pav

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 5294 Division No. ____ F. B. 2646 Pg. 53
X-Sec. No. ____ Date ____ Date ____ Survey of Wtr. Works Dist #29
Notes Chkd. ____ Checked ____ Survey by Mankey & Notes E. J. Date 6-6-60
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.	PACIFIC COAST HWY LT & SO	⊼ = (30') LN RT & No
35+00				22.5	30' pav.	
36+00				21.8'		⊼
"				21.8'		5.0' edge pav
"				22.8'	30' pav.	
T.P.				21.87'		
36+12.59	B.C. (200'± East of Light House Cafe) (PG 31)					
37+00				21.9'		⊼
"				21.5'		7.0' edge pav
"				23.0'	30' pav	
BM. 48-41				(out) 21.68' (in) 21.67	BM 48-41 EL 21.678 FB 1369-39 City LA 10696-15, STD TRAV. MON I-9 on ℄ P.I. Pacific Coast Hwy., 0.45 Mi N.W. of Channel Rd	
38+00				21.8'		
"				21.4'		6.8' edge pav.
"				22.6'	30' pav	
TBM				20.84	TBM EL 20.84' FB 2646-54 Cut Spk, in most Wtly cor. of C.B. 46.7' So. Union STA.	
38+44.0				Grate EL. 20.84	15' Rt. { 20.84 Grate EL. 10.15 Grate to flow line	
"	INVERT on 6'x6' Box & (30') LN. (PG 32)			9.88'	10.69 81 9.88	⊼ 5.4% flow South

NOTE: South end of Box, Under LTG HSE CAFE, is filled with mud, silt etc, 2/3rds full, so 6'x6' Typ. Section is assumed

F. B. 2646 PG. 54
Job No. 5294.16 Division No. Notes Red. Plotted Profile
Survey of Wtr. Works Dist #29 Date Date No. X-Sec.
Survey by ETM Jr. Notes Mankey Jr. Notes Chkd. Checked
Indexed C. Johnson Date Date Date No.

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.	PACIFIC COAST HWY LT & SO.	℄ COAST HWY. RT & NO.
39+00				22.2'		℄
"				22.3'		20' pav
"				21.49'		40' conc Slab
39+12.58	E.C.		(PG 32)			
40+00				22.7'		℄
				20.9'		31.5 pav
				20.8'		40' pav
40+18.4	SSMH			Rim EL. 20.65		37.0 Rim
INVERT on 6" Inlet on N.				17.97	2.68' Rim to F.L.	6" Inlet on N
" " 6" " " E.				18.10'	2.55' " " "	" " on E
" " 8" Outlet to So				17.95'	2.70' " " "	8" Outlet To So.
41+00				20.8'		℄
"				20.0'		40' pav
42+00				20.1'		℄
"				19.1'		40' pav
"				19.2'	32' pav	
TP				19.41'		
43+00				19.4'		℄
				18.7'		40' pav.
				18.1'	46.0'	

Profile Notes Red. Plotted Job No. 529416 Division No. F. B. 2646 Pg. 55
No. Date Date Survey of Wtr Works Dist #29
X-Sec. Notes Chkd. Checked Survey by Mankey Jr Notes ETM Jr Date 6-6-'60
No. Date Date Map No. Indexed C. Johnson

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STATION	B. S.	H. I.	F. S.	ELEV.	PACIFIC COAST HWY LT & SO.	T (30) LN RT & NO
44+00				18.8'		℄
"				18.1'		40' pav?
"				17.1'	57' pav	
45+00				18.1'		℄
"				17.6'		40' pav?
"				16.3'	60' pav	
45+23.22	B.C.		(PG 33) out	16.66'	BM 48-42 EL. 16,660	FB 1369-40
BM 48-42			in	16.64'	STD SVR. MON on ℄ Pacific Coast Hwy Mi. N.W. Channel Rd. in Well	0.61
						T = semi Tan
46+00				17.5'		T
"				17.2'		35' pav
"				15.8'	61' pav	
47+00				17.1'		T
"				15.67'		36' Top CB Grate
"				15.3'	62' pav	
47+00				15.67'	3.53 Grate to f. LN.	36' RT {.65% flow South}
"	INVERT on 48" Drain (PG 33)			12.14'		36' RT Invert
"	" " " " & Semi Tan			11.91'		T
47+66.44'	∡ PT		(PG 34)			T

F. B. 2646 PG. 56 Job No. 5294.16 Division No. Notes Red. Plotted Profile
Survey of Wtr Works Dist #29 Date Date No. X-Sec.
Survey by ETM Jr. Notes Mar Key Jr. Notes Chkd. Checked
Indexed C. Johnson Date Date No.

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.	PACIFIC COAST HWY	
					LT & SO,	⊼ = ⊼LH RT & No
TBM (set)				16.02'	TBM EL 16.02' FB 2646-57 South (side) Old Coast Hwy Spk in NE COR CB. 0.65 Mi N.W. Channel Rd	
48+00				16.0'		⊼
"				15.8'		30' pav
"				15.3'	54.5' pav	
49+00				16.6'		⊼
"				16.8'		14.5' pav
"				15.7'	34.5' pav	
T.P.				16.38'		
50+00				17.5'		⊼
"				18.1'		23.0' pav
"				16.7'	25.5' pav	
51+00				18.5'		⊼
"				18.8'		17.0' pav
"				17.5'	33.0'	
T.P.				18.84'		
52+00				18.9'		⊼
"				17.1'		27' Dirt
"				19.1'	49.0' pav	

Profile Notes Red. Plotted Job No. 5294-16 Division No. F. B. 2646 Pg. 57
No. Date Date Survey of Wtr Works Dist #29
X-Sec. Notes Chkd. Checked Survey by Mankey & Notes ETM Date 6-8-60
No. Date Date Map No. Indexed C. John Date

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STATION	B. S.	H. I.	F. S.	ELEV.	PACIFIC COAST HWY
					LT & SO. ⊼ = in Coast Hwy. RT & No.
53+00				17.0'	⊼ Dirt
"				16.4'	10' Dirt
"				17.4'	30' Dirt
"				18.8'	21.5' edge pav
"				19.5'	40' pav
53+77	INVERT on 48" CMP.		(PG36)	13.93'	29.0' flow line of 48" CMP
TP				18.09'	
54+00				16.4'	⊼ Dirt
"				17.2'	30' Dirt
"				15.9'	17.5' Dirt
"				19.5'	40' "
55+00				17.5'	⊼ Dirt
"				16.4'	10' Dirt
"				17.2'	30 Dirt
"				19.8'	12.0 Dirt
"				20.6'	32.7' "
56+00				20.6	⊼ pav
"				20.1	8' Dirt
"				17.4'	30' Dirt
"				20.9'	11.0' Dirt

F. B. 2646 PG. 58
Job No. 5294.16 Division No. Notes Red. Plotted Profile
Survey of Wtr Works Dist #29 Date Date No.
Survey by ETMVC Notes Mankey Jr. Notes Chkd. Checked X-Sec.
Indexed C. Johnson Date Date Date No.

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STATION	B. S.	H. I.	F. S.	ELEV.	PACIFIC COAST HWY LT & SO.	in Coast Hwy. RT. & NO.
56+30 22 ∡ pt			PG 36			
57+00				20.6'		pav
"				20.4'		9.0' Dirt
"				17.8'		30' Dirt
"				20.8'	7' Dirt	
58+00				20.3'		pav
"				18.2'		25' Dirt
"				20.5'	14' Dirt	
T.P.				20.03		
59+00				20.0'		Dirt
"				19.8'		4' Dirt
"				17.8'		16' Dirt
"				18.1'		30' Dirt
"				20.5'	21' Dirt	
60+00				19.7'		Dirt
"				16.9'		12'
"				16.3'		32'
"				20.5'		33.5'
"				20.4'	27.5'	

Profile No. ____ Date ____ Notes Red. ____ Date ____ Plotted ____ Date ____ Job No. 5294.16 Division No. ____ Survey of Wtr Works Dist #29 Survey by Mankey Jr. Notes ETM Date 6-8-60 Map No. ____ Indexed ____ Date ____

X-Sec. No. ____ Date ____ Notes Chkd. ____ Date ____ Checked ____ Date ____ C. Johnson Date ____

F. B. 2646 Pg. 59

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STATION	B. S.	H. I.	F. S.	ELEV.	PACIFIC COAST HWY LT. & SO.	⊼ = in Coast Hwy	RT. & NO.
60+81.0'	INVERT on 48" CMP (PG 37)			13.0'	22.5' Lt flow line pipe		
61+00				13.9'		⊼	
"				14.1'			6.0'
"				20.0'			21
"				20.4'			30'
"				18.8'	34.0		
61+41	Bot of Bank			15.2'		⊼	
61+85	Top " Bank			19.3'		⊼	
62+00				19.7		⊼	
"				21.4'			30' pav
"				19.4'	5.0'		
"				15.5'	16.5'		
"				18.9'	40'		
62+11.3				19.8'	5.0' Cor Pav		
63+00				20.6'		⊼	
"				21.4'			30' pav
"				20.4'	28.0' pav		
T.P.				20.62'			

F. B. 2646 Pg. 60
Job No. 5294.16 Division No. Wtr Works Dist #29
Survey of Survey by ETM Jr. Notes Mankey Jr. Notes Chkd. Checked
Indexed C. Johnson Date Date Date Date
Profile No. X-Sec. No.

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.	PACIFIC COAST HWY	
					LT & So.	⊼ in Coast HWY RT & No
64+00				21.5'		⊼
"				21.4'		30' pav
"				21.3'	30' pav	
64+99.31	P.I.	(see PG 39)				
					LT & So	⊼ = 30' LN Note Change RT & No
65+00				21.3'		⊼
"				21.1'		16.0' pav edge
"				21.5'	30' pav.	
66+00				21.1'		⊼
"				21.1'		3.5' edge pav
"				21.5'	30' pav.	
66+41.6				21.5'	88' Cor pav	
66+85.0				21.0'	5.0' Cor. pav.	
TP				23.19'		
67+00				23.1'		⊼ & Toe Slope
"				21.1'	4.0'	
"				21.9'	10'	
				21.2'	30'	

Profile Notes Red. ____ Plotted ____ Job No. 5294.16 Division No. ____ F. B. 2646 Pg. 61
No. ____ Date ____ Date ____ Survey of Wtr Works Dist #29
X-Sec. Notes Chkd. ____ Checked ____ Survey by Markey Jr. Notes ETM Jr. Date 6-8-60
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Johnson

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.	PACIFIC COAST HWY LT & SO.	⊼ = 30' LN. RT. & NO.
68+00				21.6'		⊼
"				21.1'		5' Dirt
"				20.1'	30' Dirt	
69+00				20.2		⊼
"				19.9'		4' Dirt
"				20.8'	21.5	
"				20.8'	30'	
69+20				20.7'	13' Cor Pav	
69+25				19.4'		⊼ edge pav
69+28				19.3'		19.7' Cor Pav
69+55				19.1'		⊼ edge pav
69+62°				21.3' Rim EL	7.5' Cor Pav	
69+62°	SSMH (LOCKED)			19.38'		17.0' Rim

{NOTE: Forced Sewer Main Runs South from S.S.M.H.}

BM 48-44				18.26'	BM 48-44 EL 18.250' FB 1369-41 US C&GS Disk G-576-1939 about 1.08 mi N.W. of Channel Rd in No. Wall pedestrian Subway 4' W. of E. end & 40' N.E. of ℄ Pacific Coast Hwy	

F. B. 2646 Pg. 62 Job No. 529416 Division No. Notes Red. Plotted Profile
Survey of Wtr Works Dist #29 Date Date No. X-Sec.
Survey by [illegible] Notes Mankey Jr Notes Chkd. Checked
Indexed C. Johnson Date Date Date No.

76L-298 S & E #307—1-56

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18.3
10.9

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STATION	B. S.	H. I.	F. S.	ELEV.	PACIFIC COAST HWY LT & SO.	⊼ = (30') LN. RT & NO.
70+00				19.8'		⊼
"				18.7'		10' Dirt
"				20.0'	30' pav	
70+34.5	SSMH			Rim EL 19.61'	4.5' Rim	
	INVERT on 24" Inlet on So.			.06'	19.55' Rim to F.L.	24" Inlet on So.
	" " " Outlet to No.			.01'	19.60' " " "	" Outlet to No.
					(Outlet to SSMH Adjacent to Pumping Plant)	
70+35.4	SSMH			Rim EL 19.64	10.5 Rim	
	INVERT on 24" Inlet on W.			.14	19.50' Rim to F.L.	24" Inlet on W.
	" " " Outlet to No.			.11'	19.53 " "	" " Outlet to No
70+52.3			(PG. 40)	7.4'		10.6' flow line
"	INVERT on floor of DRAIN			7.3'		⊼ (NOTE: 1% flow South)
71+61.43	Const B.C.		(PG 40)	19.0'		⊼
"				19.0'		9'
"				19.4'	30'	
BM 48-44				18.25	BM 48-44 EL 18.25	0' See Above

Profile Notes Red. ____ Plotted ____ Job No. 5294.16 Division No. ____ F. B. 2646 Pg. 63
No. ____ Date ____ Date ____ Survey of Wtr. Works Dist #29
X-Sec. Notes Chkd. ____ Checked ____ Survey by Mankey Vr. Notes ETMcL Date 6-9-60
No. ____ Date ____ Date ____ Map No. ____ Indexed A. C. Johnson Date ____

F. B. 2646 Pg. 64

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.

76L-298 S & E #307—1-56

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Notes Ck'd by	Survey of Wtr Works Dist #29
Map No.	JN 5294.16 Tape Std °F
Office Work	Surveyed by Mankey Jr.
Checked	Notes ETM Jr Date 6-19-60
Date	Indexed A. C. Johnson 6-16-60

F. B 2646 PG. 65

JN 5294.16

WATER WORKS DISTRICT #29

TOPOGRAPHY
on
PACIFIC COAST HWY
from
WEST (side) SLIDE AREA
to
BEL-AIR BAY CLUB ROAD

STA 71+61.43 CONST. B.C.
to
STA 107+58.51 E.C. WEST of
BEL-AIR BAY CLUB

Mankey Jr.
Voge
Swann
L. Jones

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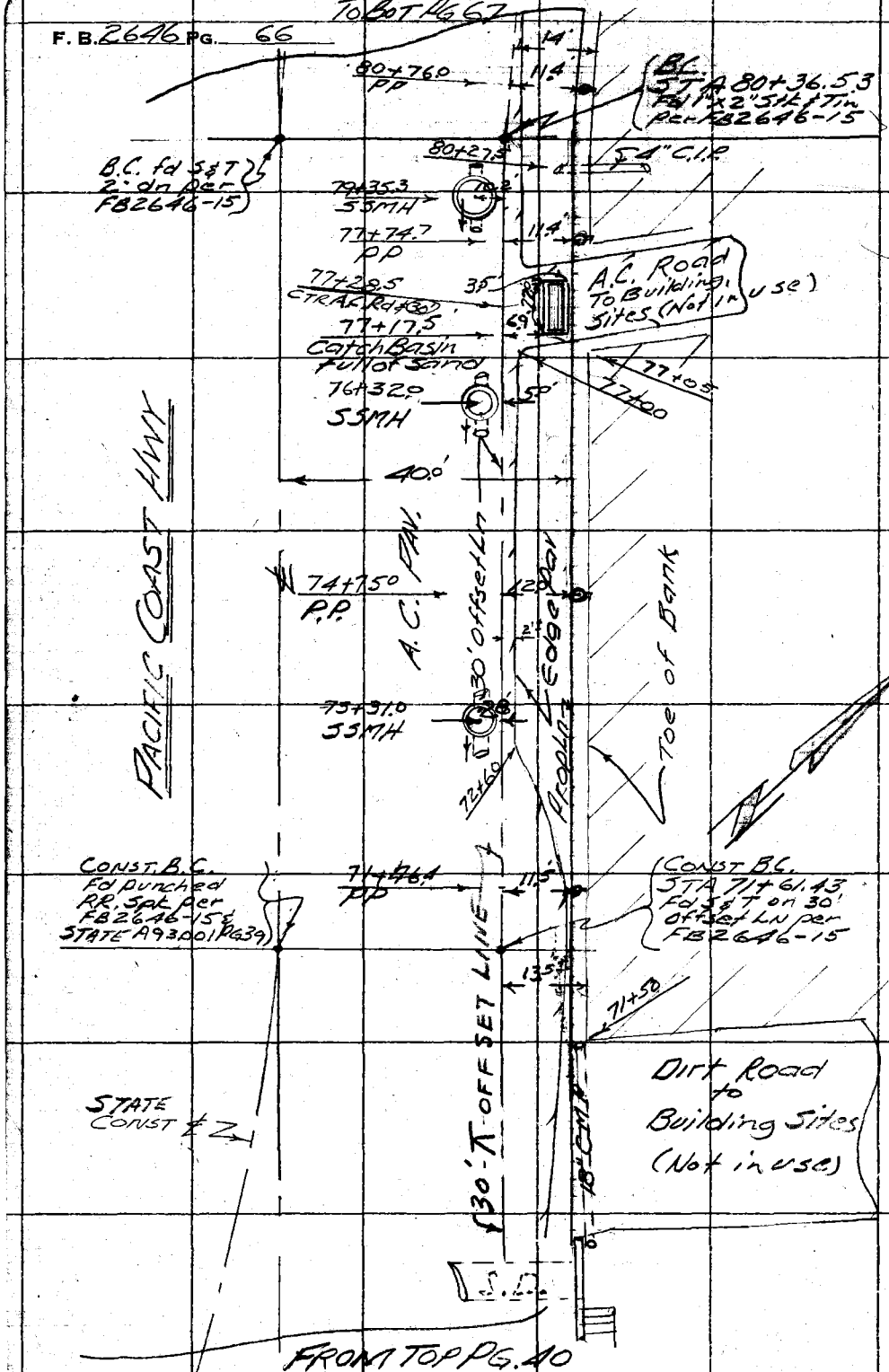
763098 CE #247—7-53

F. B. 2646 PG. 66



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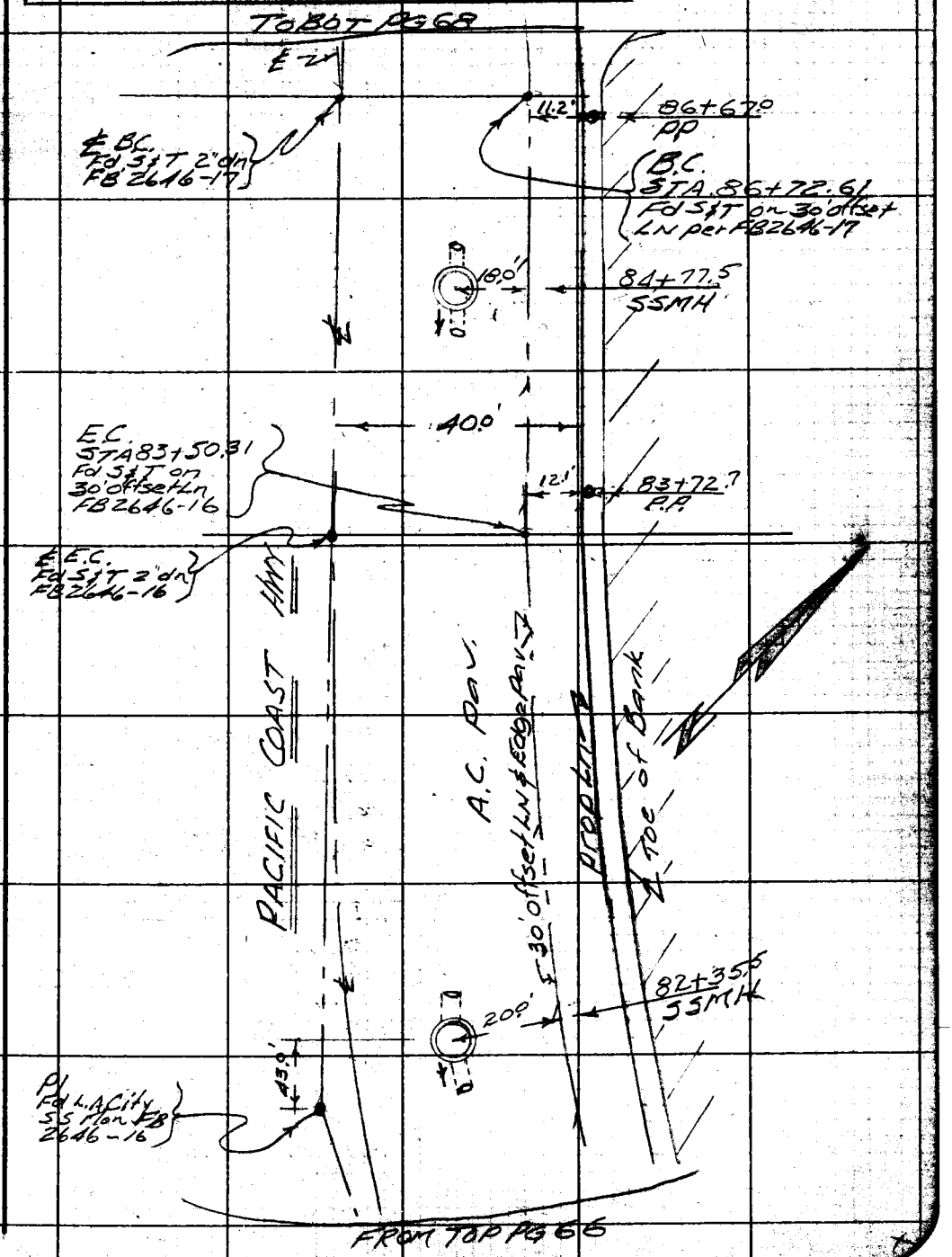
Notes Ck'd by	Survey of Wtr. Works Dist #29
Map No.	Jn 6284.16 Tape Std °F
Office Work	Surveyed by Mankey Jr.
Checked	Notes ETM Jr. Date 6-13-60
Date	Indexed A. C. Johnson

F. B 2646 PG. 67



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763098 CE #247—7-53

F. B. 2646 PG. 68 TO BOT PG 69

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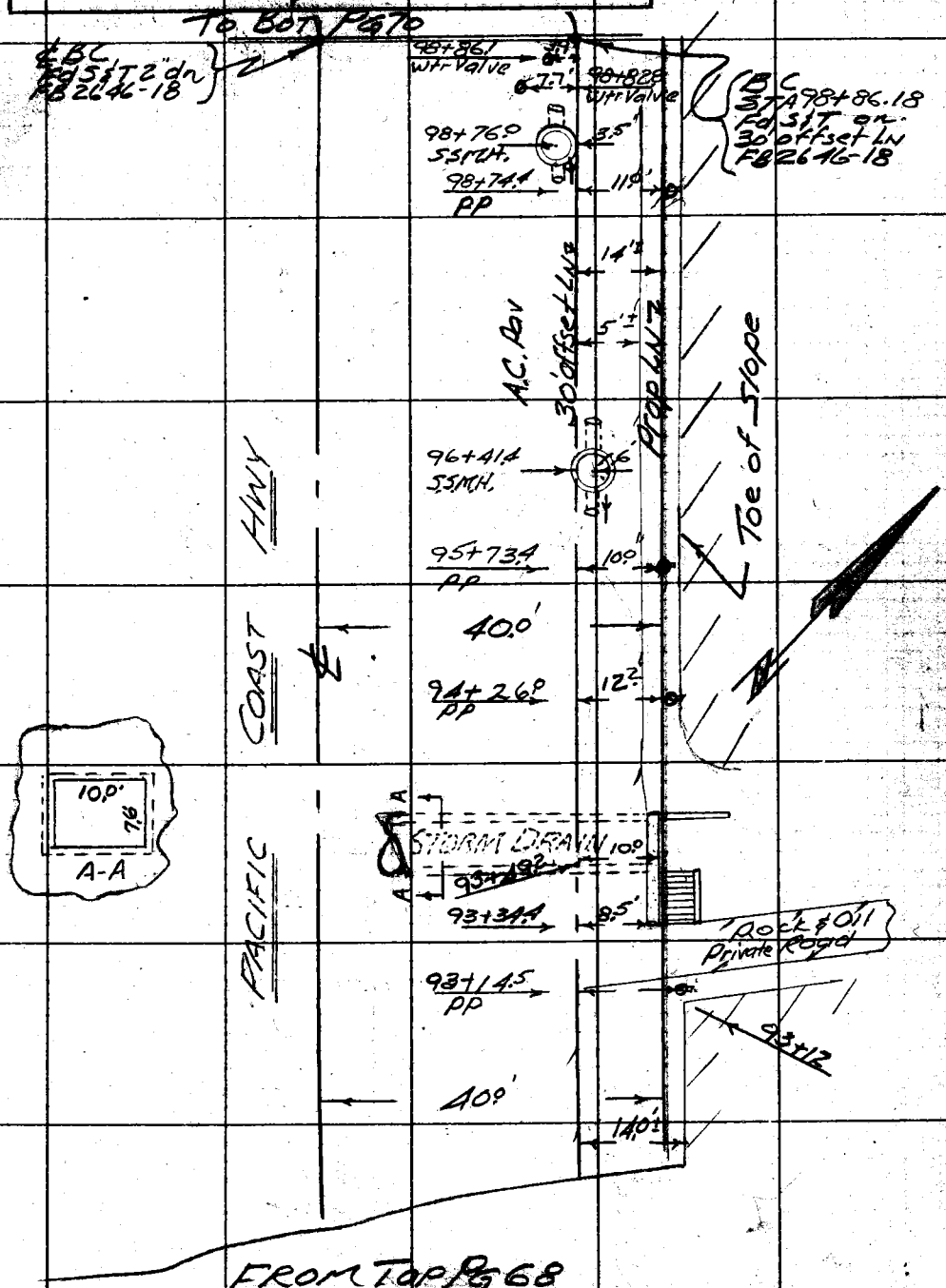
Notes Ck'd by	Survey of Wtr. Works Dist #29
Map No.	JN 5294.16 Tape Std °F
Office Work	Surveyed by Mankey Jr.
Checked	Notes Mankey Jr. Date 6-13-60
Date	Indexed C. Johnson

F.B. 2646 Pg. 69



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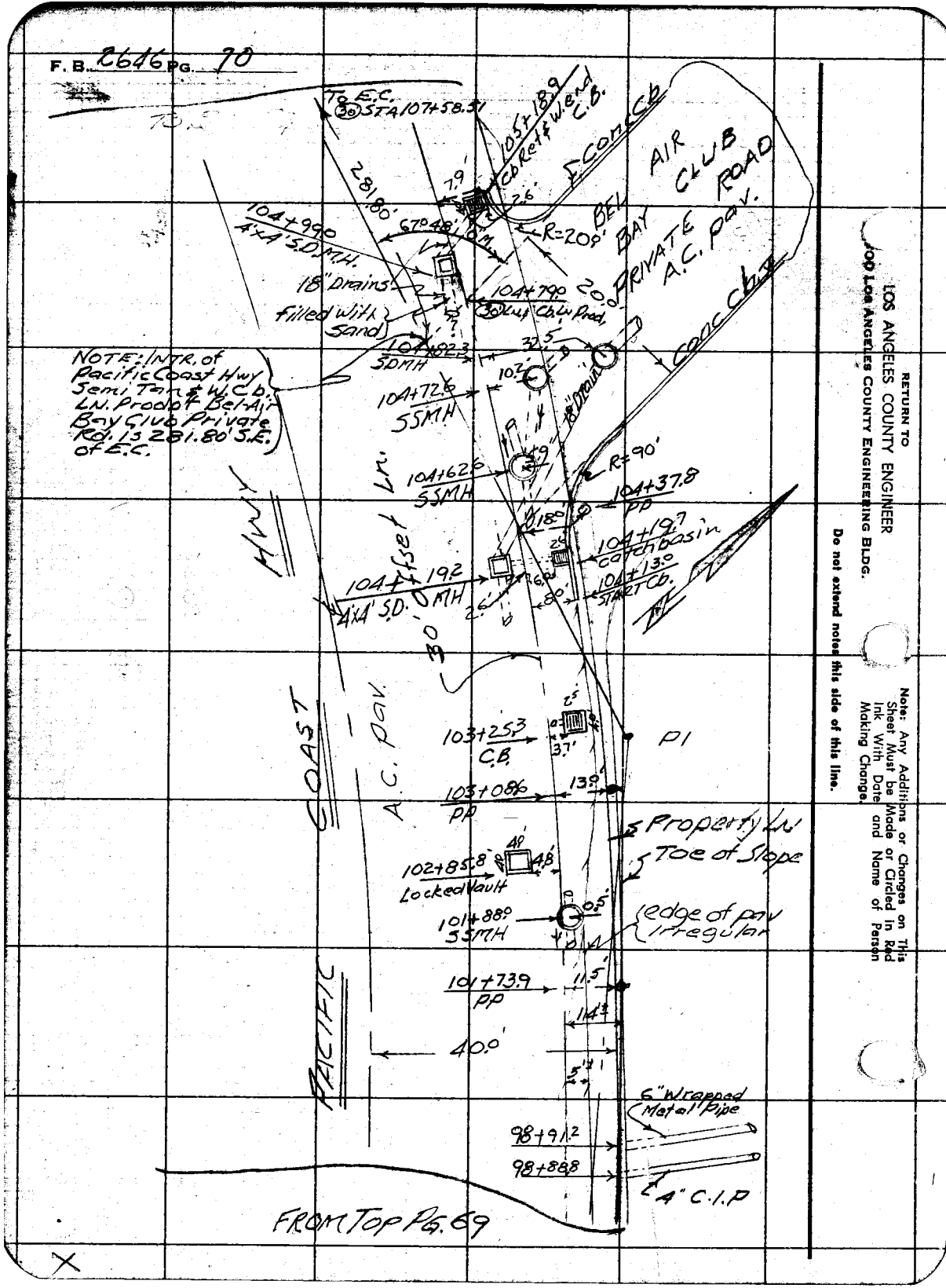
763095 CE #247—7-53



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F. B. 2646 Pg. 71

Profile No. ____ X-Sec. No. ____
Notes Red. ____ Date ____ Notes Chkd. ____ Date ____
Plotted ____ Date ____ Checked ____ Date ____
Job No. 5294.16 Division No. ____
Survey of W/r Works Dist #29
Survey by Mankey Jr. Notes E.T.M.Jr. Date 6-14-60
Map No. ____ Indexed C. Johnson

JN 5294.16

WATER WORKS DISTRICT #29

X-SECTIONS
on
PACIFIC COAST HWY
from
WEST (side) SIDE AREA (Sta. 71+61.43)
to
BEL-AIR BAY CLUB ROAD (107+58.31)

Mankey Jr.
Voge
Swann
L. Jones

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

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76L-298 S & E #307—1-56

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.	PACIFIC COAST HWY	
					LT & SO.	⊼ (30') LH RT. & NO.
BM 48-44				18.25	BM 48-44 EL. 18.250' FB 1369-41 USC & GS Disc G-576-1939, About 1.08 Mi N.W. of Channel Rd in N. Wall Ped. Subway, 4' W. of E end & 40' N.E. of ℄ Pacific Coast Hwy	
71+61.43 Const B.C. (PG. 40 & 66 Topog.)				19.0		⊼
72+00				19.0		⊼
" "				18.2		10' R
" "				19.4	30' ℄ HWY.	
73+00				18.6		⊼
" "				18.3		10' R.
" "				19.6 RIM FL.	30 ℄ HWY.	
73+31.0 SSMH				18.82	2.8 RIM	
INVERT on 24" Inlet on W.				0.37'	18.45' Rim to flowline 24" Inlet W.	
" " " Outlet to E.				0.32'	18.50' " " " " " Outlet E.	
74+00				18.7		⊼
" "				18.3		10'
" "				19.7	30' ℄ HWY.	
75+00				19.0		⊼
" "				18.7		10'
" "				19.9	30' ℄ HWY.	
T.P.				19.63	S. Side PP = 102331 M	

F. B. 2646 PG. 72
Job No. 5294.16 Division No. Notes Red. Plotted Profile
Survey of Wtr Works Dist #29 Date Date No. X-Sec.
Survey by ETM Jr. Notes Mankey Jr. Notes Chkd. Checked
Indexed C. Johnson Date Date Date No.

76L-298 S & E #307—1-56

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Profile Notes Red. Plotted. Job No. 52-WL-6 Division No.
No. X-Sec. Date. Date. Survey of Hitt Inserts Dist. #29
No. Notes Chkd. Checked. Survey by Mazeski & Notes Swann Date 6-12-60
No. Date. Date. Map No. Index C. Tehan 1960

F. B. 2646 Pg. 73

STATION	B. S.	H. I.	F. S.	ELEV.	PACIFIC COAST HWY. LT ℄ So.	T=(30)'±N	RT ℄ No.
76+00				19.4		T	
" "				19.1			10'
" "				20.1	30' ℄ HWY		
76+32 ±	INVERT of GR 55 M.H.			1.60'	5± Rim		19.67', Rim EL 24" In W. 18.07 Rim to F.L. of 24" M.H. " Out E.
77+00				19.9		T	
" "				19.6			10'
" "				20.7 GRATE EL.	30' ℄ HWY		
77+ .75	Catch Basin			18.76	Full of Sand		6± GRATE
77+28 ±				19.8		T	
" "				18.8			8'
" "				20.2			20' P.C.
78+00				20.4		T	
" "				20.1			10'
" "				21.3	30' ℄ HWY		
79+00				21.2		T	
" "				20.8			10'
" "				21.9 Rim EL. 21.38	30' ℄ HWY		10± Rim
79+35 ±	55 M.H.						
	INVERT on 27" Inlet on W.			2.15'	19.73' Rim to flowline on 27" Inlet on W.		
	"	24" Outlet E		2.11	19.77 " " " "		" 24" Outlet " E

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.	PACIFIC COAST HWY LT. & So.	⊼ - 30 in	RT. & No.
80+00				21.7		⊼	
" "				21.3			10'
" "				22.5	30' ℄ HWY		
TP.				21.90			
80+36.53	BC.						
81+00				21.5		⊼	
" "				21.2			10'
" "				22.4	30' ℄ HWY		
82+00				20.9		⊼	
" "				20.6			10'
" "				21.7	30' ℄ HWY		
82+35.5	SSMH			21.35	20' RIM		
INVERT on 27" Inlet on W,				2.25	19.10' Rim to flowline 27" Inlet		
" " " Outlet " E				2.28	19.12' " " " " 27" Outlet		
83+00				20.2		⊼	
"				19.9			10'
" "				21.0	30' ℄ HWY		
83+50.31	EC.						
TP				21.95	TP SPK NO. 5 [illegible] PP 102328 M		

F. B. 2646 Pg. 74
Job No. 5294.16 Division No. Notes Red. Plotted Profile
Survey of Wtr Works Dist #29 Date Date No.
Survey by Markey Notes Swann Notes Chkd. Checked X-Sec.
Indexed C. Johnson Date Date No.

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.	PACIFIC COAST HWY. LT ℄ So.	T=30' LN	RT ℄ No.
84+00				19.5		T	
"				19.[illegible]			10'
				20.1	30' ℄ HWY		
84+77.5	SSMH			RIM EL. 19.40	18° RIM		
	INVERT on 27" Inlet W.			2.40'	17.00' Rim to flow line 27" Inlet		
	" " " Outlet E.			2.37'	17.03' " " " " " Outlet		
85±00				18.8		T	
" "				18.4			10'
" "				19.3	30' ℄ HWY		
86+00				17.9		T	
" "				17.6			10'
" "				18.5	30' ℄ HWY		
86+72.[illegible]	3C						
87+00				17.5		T	
"				17.3			10'
"				17.7	30' ℄ HWY		
87+78.3	SSMH			RIM EL. 17.34	7° RIM		
	INVERT on 27" Inlet W.			2.71'	14.63' Rim to flow line 27" Inlet		
	" " " Outlet E.			2.70'	14.64' " " " " Outlet		
TBM				16.31'	TBM EL 16.31 FB 2646-75 PACIFIC COAST HWY No. side Spk in W. side of CB at Ent. to Palisades Trailer Bowl		

Profile Notes Red. ____ Plotted ____ Job No. 5294.16 Division No. ____
No. ____ Date ____ Date ____ Survey of Wtr Works Dist #29
X-Sec. Notes Chkd. ____ Checked ____ Survey by Mankey & Notes Swann Date 6-14-60
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Johnson

F. B. 2646 Pg. 75

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STATION	B. S.	H. I.	F. S.	ELEV.	PACIFIC COAST HWY.	
					LT & So.	RT & No.
88+00				16.9		
" "				16.8		10'
" "				17.2	30' ℄ HWY.	
88+49.5	CATCH BASIN OUTLET			GRATE EL. 16.40		9.7 GRATE
"	INVERT on 3.2'x3.2' "		to South	11.20'	5.20' Grate to flow line	GRADE ?
89+00				17.0		
" "				16.8		10'
" "				17.4	30' ℄ HWY	
90+00				17.4		
" "				17.2		10'
" "				17.6	30' ℄ HWY	
90+37.7	SSMH			RIM EL. 17.81	12.5 RIM	
	INVERT on 27" Inlet on W.			2.94'	14.87' Rim to flow line 27" Inlet	
	" " " Outlet to E.			2.93'	14.88' " " " " " Outlet	
91+00				17.6		
" "				17.6		10'
" "				17.8	30' ℄ HWY	
91+76.99	EC					

F. B. 2646 Pg. 76
Job No. 5294.16 Division No. Notes Red Plotted Profile
Survey of Wtr Works Dist #29 Date Date No. X-Sec.
Survey by Nantek Notes Sunna Notes Chkd Checked
Indexed C. Johnson Date Date Date No.

76L-298 S & E #307—1-56

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	PACIFIC COAST HWY. LT ℄ So.	(30)	RT ℄ No.
92+00				17.5			
"				17.5			10'
" "				18.0	30' ℄ HWY.		
93+00				17.5			
" "				17.0			10'
" "				18.1	30' ℄ HWY.		
T.B.M.				17.56	TBM EL 17.56' FB2646-77 Spk. 12' W. of E. end conc. headwall 400' N.W. of Standard Gas Station 39.5' N. of ℄ Coast Hwy.		
93+49.2	Invert on S.D.			8.2'			10' Flow line
"	" " 7.6'x10' S.D.			8.1'			1.1% flow South
94+00				17.4			
" "				16.8			10'
" "				18.3	30' ℄ HWY		
95+00				17.8			
" "				17.3			10'
" "				18.6	30' ℄ HWY		
96+00				18.3			
" "				17.8			10'
" "				18.8	30' ℄ HWY		

Profile Notes Red ___ Plotted ___ Job No. 5294.16 Division No. ___ F. B. 2646 Pg. 77
No. ___ Date ___ Date ___ Survey of Wtr. Works Dist #29
X-Sec. Notes Chkd. ___ Checked ___ Survey by Mankevich Notes ETM Chk Date 6-14-60
No. ___ Date ___ Date ___ Map No. ___ Index N. C. Johnson Date ___

76L-298 S & E #307—1-56

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	PACIFIC COAST HWY		
					LT & No.	30 LN	RT & No.
96+41.4	SSMH			RIM EL 18.42		1.6	RIM
INVERT on 24" Inlet on W.				3.81	14.61' Rim to flow line 24" Inlet		
" " 27" Outlet " E				3.79'	14.63' " " " " 27" Outlet		
97+00				18.4			
" "				17.9			10'
"				18.9	30' ℄ HWY		
98+00				18.7			
" "				18.4			10'
" "				19.	30' ℄ HWY		
TP				19.28			
98+76.2	SSMH			RIM EL. 19.29	3.5 RIM		
INVERT on 24" Inlet on W.				3.94'	15.35' Rim to flow line 24" Inlet		
" " " Outlet E				3.92'	15.37' " " " " " Outlet		
98+86.18	BC.						
99+00				19.1			
" "				18.9			10'
" "				19.7	30' ℄ HWY		
100+00				19			
" "				18.7			10'
" "				19.6	30 ℄ HWY		

F. B. 2646 Pg. 78
Job No. 5294 Division No. Notes Red. Plotted Profile
Survey of Wtr Works Dist. #29 Date Date No.
Survey by Manley Notes Swann Notes Chkd. Checked X-Sec.
Indexed C. Johnson Date Date Date No.

76L-298 S & E #307—1-56

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	PACIFIC COAST HWY	
					LT ℄ So.	RT ℄ No.
101+00				19.9		
" "				19.2		10'
"				19.6	30' ℄ HWY	
101+88		SS MH		RIM EL. 19.78		0.5 RIM
INVERT on 8" Drop Inlet on N				14.03	5.75' Rim to flow line 8" Drop (Dry)	
" " " " Inlet on "				4.62'	15.16' " " " " " Inlet N	
" " 24" " " W				4.28	15.50' " " " " 24" " W.	
" " " Outlet E				4.26'	15.52' " " " " " Outlet E.	
102+00				19.8		
" "				19.4		10'
" "				20.0	30' ℄ HWY	
102+85.8		LOCK VAULT	?	RIM EL. 20.17	4.8 RIM	
103+00				[illegible]		
"				19.5		10'
"				[illegible]	30' ℄ HWY	
103+27		CATCH BASIN		GRATE 19.41		3½' GRATE
INVERT ON 6" OUTLET TO SO.				17.51	1.90' Grate to flow line 8" Outlet	
BM # 48-50				out 20.42' in 20.39'	BM 48-50 EL 20.425 FB 1369-43 USC & GS DISC H-576-1939-0.9 Mi E. of Castellamare Overhead Bridge at N.W. Cor of Pri. Rd. Leading to Bel Air Bay Club, 35' W of ℄ Pri Rd & 6' E of C.B. in Ch Rd	

Profile Notes Red. ____ Plotted ____ Job No. 594.16 Division No. ____
No. ____ Date ____ Date ____ Survey of Utr. Works Dist #29
X-Sec. Notes Chkd. ____ Checked ____ Survey by Nankey Notes ETRA Date 6-14-60
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Johnson Date ____

F. B. 2646 Pg. 79

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F. B. 2646 Pg. 80 Job No. 5896 Division No. Dist. #2
Survey of Hyd. Work Profile
Survey by Mantzey Notes Notes Red. Plotted No.
Indexed C. Johnson Notes Chkd. Date Checked X-Sec.
Date Date No.

STATION	B. S.	H. I.	F. S.	ELEV.	PACIFIC COAST HWY
					LT & So. — ℄ (30) — RT & No.
104+00				20.1'	X
" "				19.9'	10'
"				20.1'	30'℄ Hwy
104+139 Start Conc CB				19.7'	8" Gut
" " " "				20.34' E. Rim EL	" CB
104+19.2 SDMH				20.25	4.6 Rim
" INVERT on 18" Outlet to E.				14.70' Grate EL	5.55' Rim to flow line
104+21.0 CTR of C.B.				19.75'	6'o' Grate
" INVERT on 8" Outlet to S.				16.60 N. Rim EL	3.15' Grate to flow line
104+21.2 CTR SDMH				20.25	
INVERT on 8" Inlet on N.				14.70'	5.55' Rim to flow line
104+23.2 " " 18" " W.				14.70'	5.55' Rim to " "
E. end N.E.C.R. Coast Hwy & Bel-Air Rd				20.34	8" CB
" " " " " "				19.7'	" Gut
N. " " " " " "				22.35	CB
" " " " " "				21.64' Rim EL	Gut
104+62.6 SSMH				20.19'	5.9' Rim
INVERT on		8" Drop Inlet on N		10.91'	9.28' Rim to flow line 8" Drop Inlet
"		24" " W		4.54'	15.65 " " " " 24" Inlet
"		" outlet E		4.52'	15.67 " " " " Outlet
104+72.6 SSMH				F. Rim EL. 20.21	10.12 Rim
INVERT on 8" Inlet on N.				11.86'	8.35' Rim to flow line 8" Inlet
" " " Outlet to S.E.				11.62'	8.59 " " " " " Outlet

76L-298 S & E #307—1-56

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Profile No. X-Sec. No.
Notes Red. Date
Notes Chkd. Date
Plotted Date
Checked Date
Job No. 52946 Division No.
Survey of Dept. of Public Works Co. Sur. #29
Survey by Markey & Notes Eng. Mgr. Date 6-15-60
Map No. Indexed
F. B. 2646 Pg. 81

STATION	B. S.	H. I.	F. S.	ELEV.	PACIFIC COAST HWY
					LT ℄ 50 R=(30) NW. RT. ℄ No.
104+79.0	INTR (30) Lw℄ W. Cb. Ln Bel-Air Rd			Rim EL.	
104+82.3	SDMH			21.04'	32.5' Rim
	INVERT at CTR SDMH.			15.54'	5.50' Rim to flow line 18"
		18" Inlet & Outlet		Rim EL	
104+99.0	SDMH. CTR.			20.20'	20.0' Rim
"	INVERT on 18" Outlet to E			15.20'	5.00 Rim to flow line
105+03	" " " Inlet on NW			15.20' Grate EL	" " " " "
105+17	C.B.			19.68'	6.6' Grate
	INVERT on 18" Outlet to SE			16.48'	3.20' Grate to flow line
	N. end NW CR. COAST HWY & BEL-AIR RD.			22.24'	C.B.
	" " " " " " " "			21.66'	Gut
	W " " " " " " "			20.34'	7.9' C.B.
	" " " " " " " "			19.68'	" Gut.
106+00				19.9'	℄
"				19.5'	10'
				20.2'	30' E Hwy
107+00				19.8'	℄
"				19.3'	10'
				19.9'	30' E Hwy
107+58.5	E.C. West of Bel Air Club Rd				

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.		
BM48-49				19.25'	BM 48-49 EL 19.237' FB1369-44 City L.A. 10696-17 Std Tra. Disk G-8 at No. of ℄ Stripe Pacific Coast Hwy, 396 So. of S&T in Pole #115409M & 1.70 Mi. N.W. of Channel Rd.	

F. B. 2646 Pg. 82

Job No. 5294116 Division No. Notes Red. Plotted Profile

Survey of Wtr Works Dist #29 Date Date No. X-Sec.

Survey by ETM Jr. Notes Monkey Jr. Notes Chkd. Checked

Indexed R. C. Johnson Date Date Date No.

Notes Ck'd by	Survey of Wtr Works Dist #29 F. B. 2646 Pg. 85
Map No.	JN 5294.16 Tape Std °F
Office Work	Surveyed by Monkey Jr.
Checked	Notes E.T.M. Jr. Date JUL 6 '60
Date	Indexed H. E. OTT

JN 5294.16

WATER WORKS DISTRICT #29

TOPOGRAPHY

on

PACIFIC COAST HWY

from

BEL AIR BAY CLUB ROAD

to

P.C.C. WEST of SUNSET BLVD

Monkey Jr.
Voge
Swann
L. Jones

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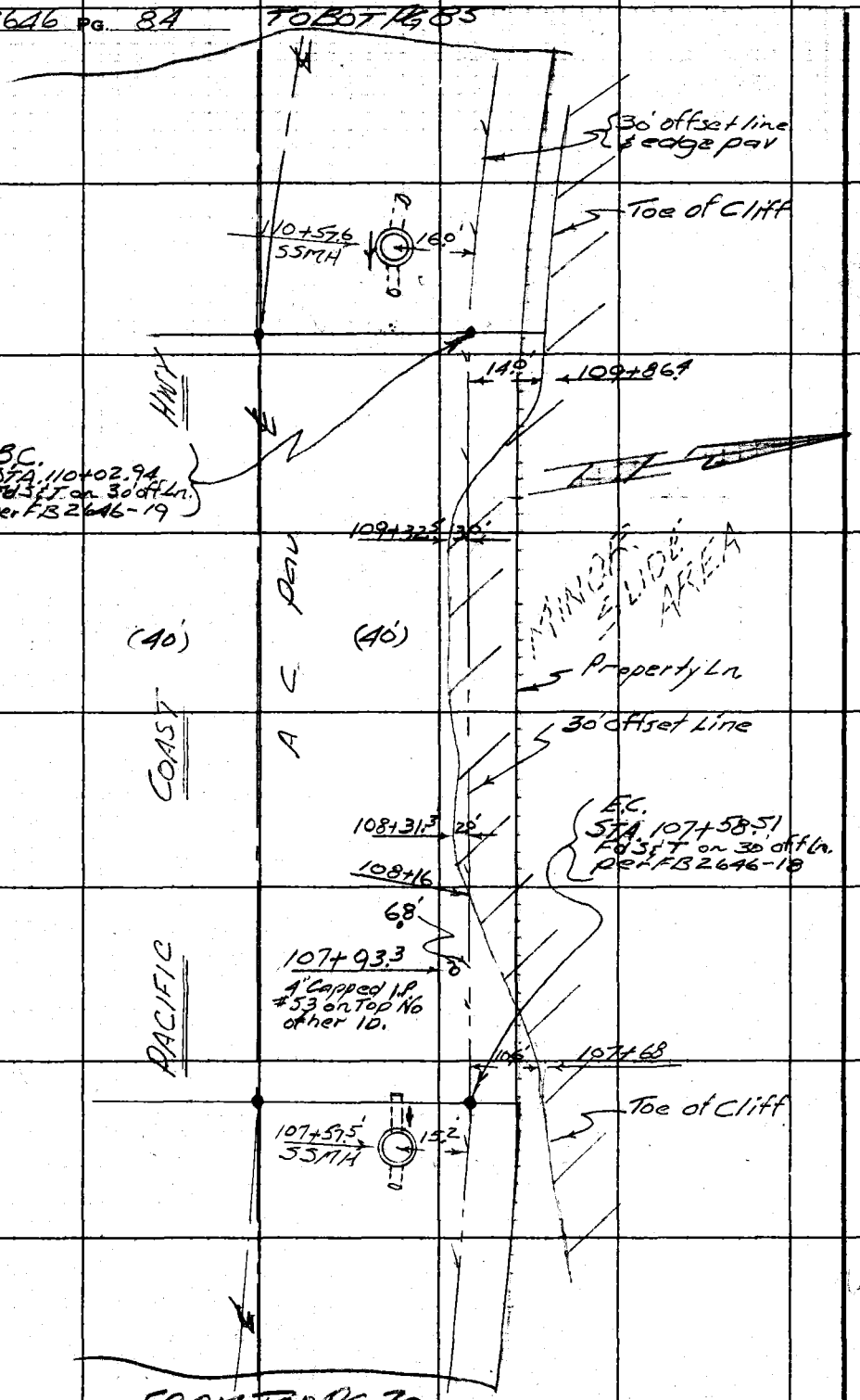
100 Los Angeles County Engineering Bldg.

765095 CE #247—7-58

F. B. 2646 PG. 84



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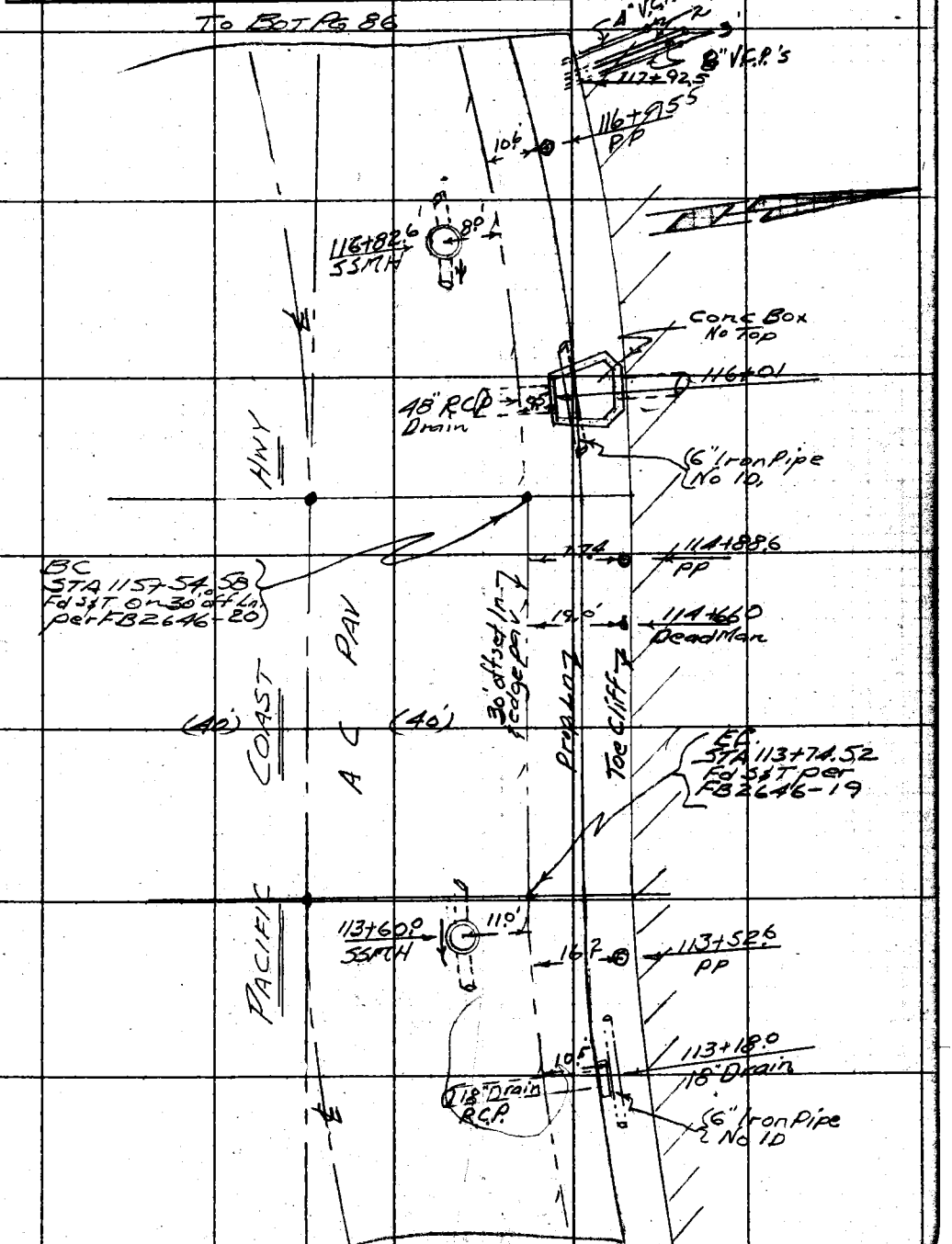
Notes Ck'd by	Survey of Wtr Works Dist #29
Map No.	JN 529A.16 Tape Std °F
Office Work	Surveyed by Mankey Jr.
Checked	Notes ETM Jr. Date
Date	Indexed H. E. OTT

F. B. 2646 PG. 85



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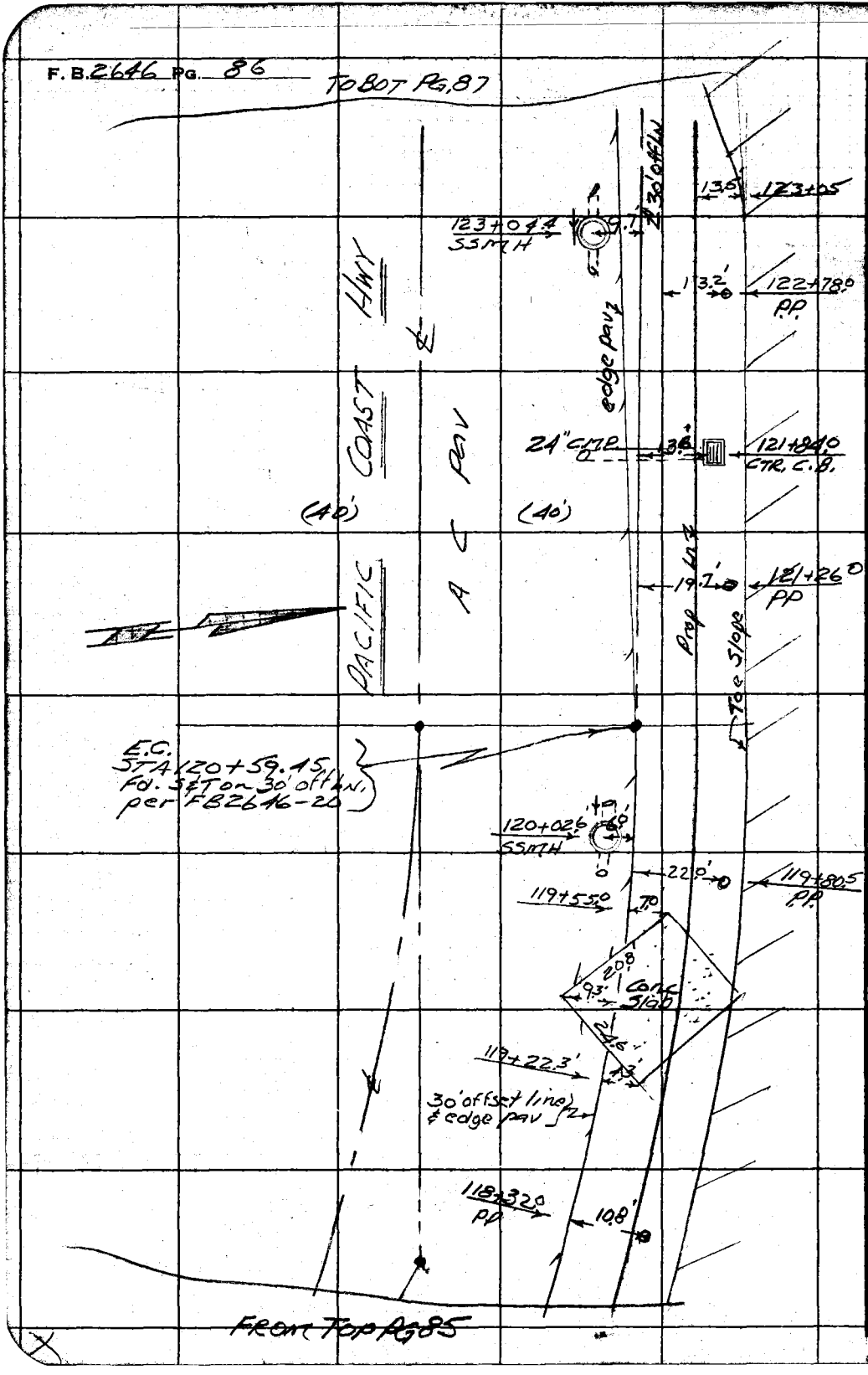
763098 CE #247—7-83



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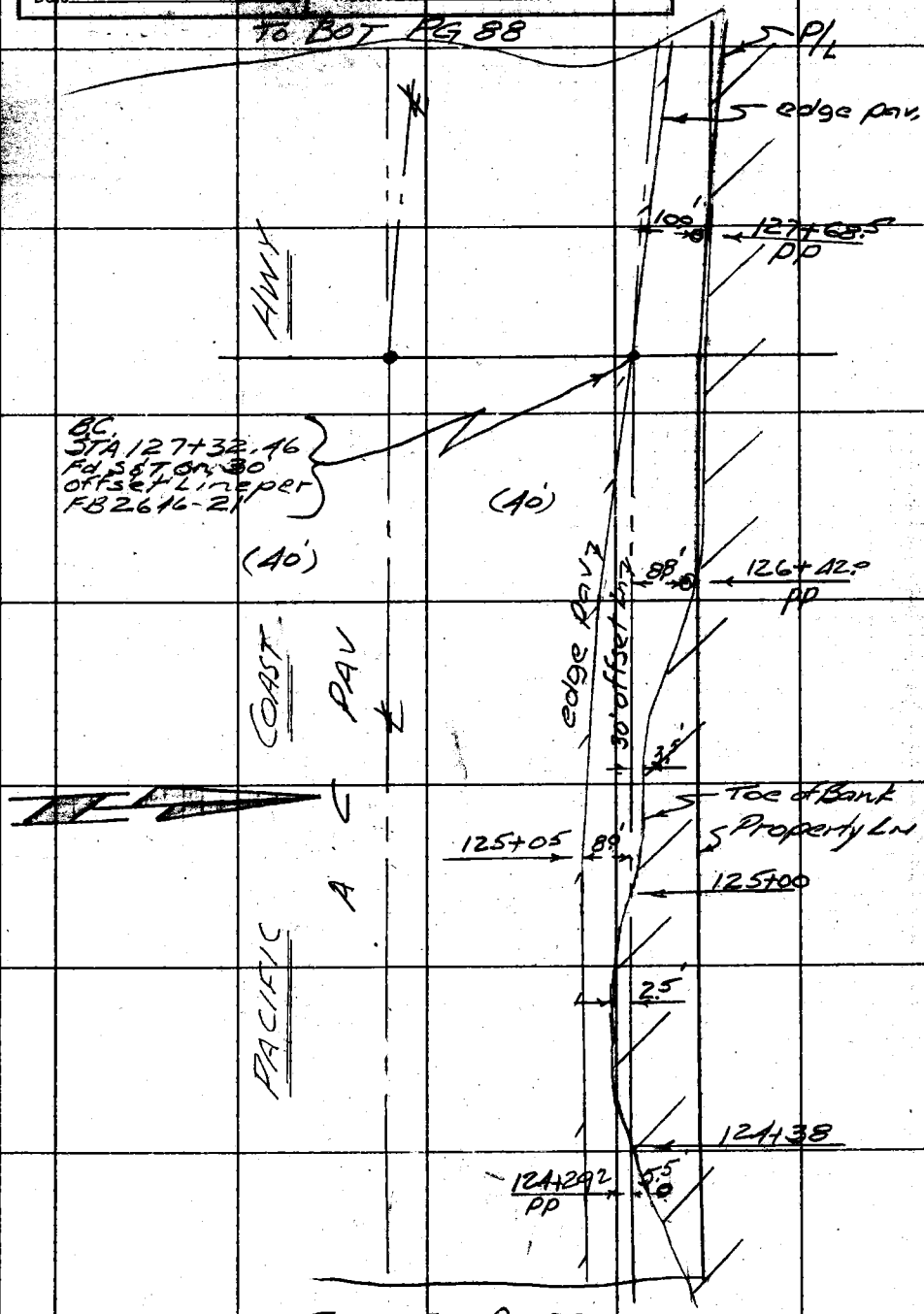
Notes Ck'd by	Survey of Wtr. Works Dist #29
Map No.	IN 5294.16 Tape Std °F
Office Work	Surveyed by Mankey Jr.
Checked	Notes ETM Jr. Date 6-24-60
Date	Indexed H. E. OTT

F. B. 2646 PG. 87



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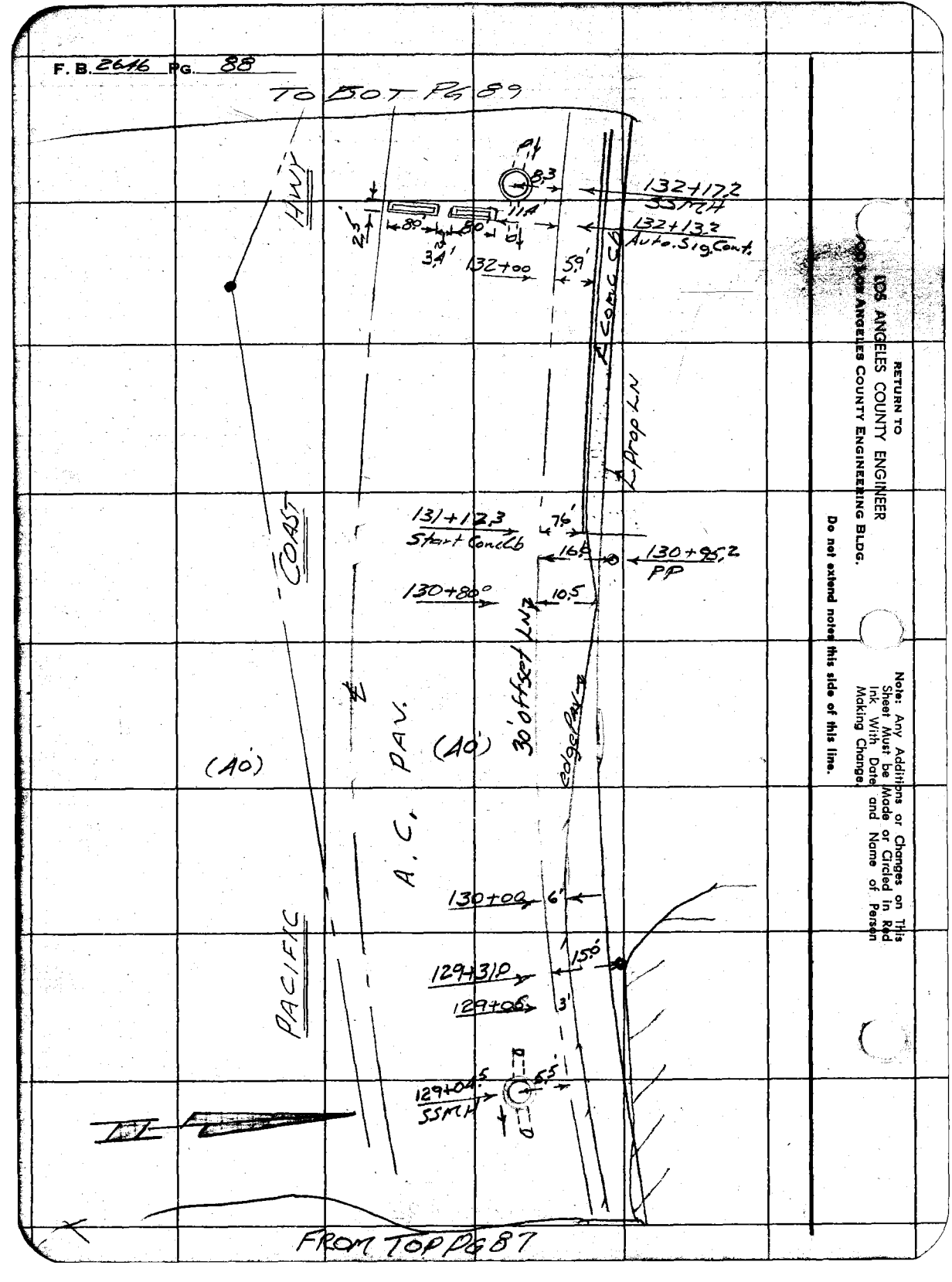
763095 CE #247—7-53

F. B. 2616 PG. 88



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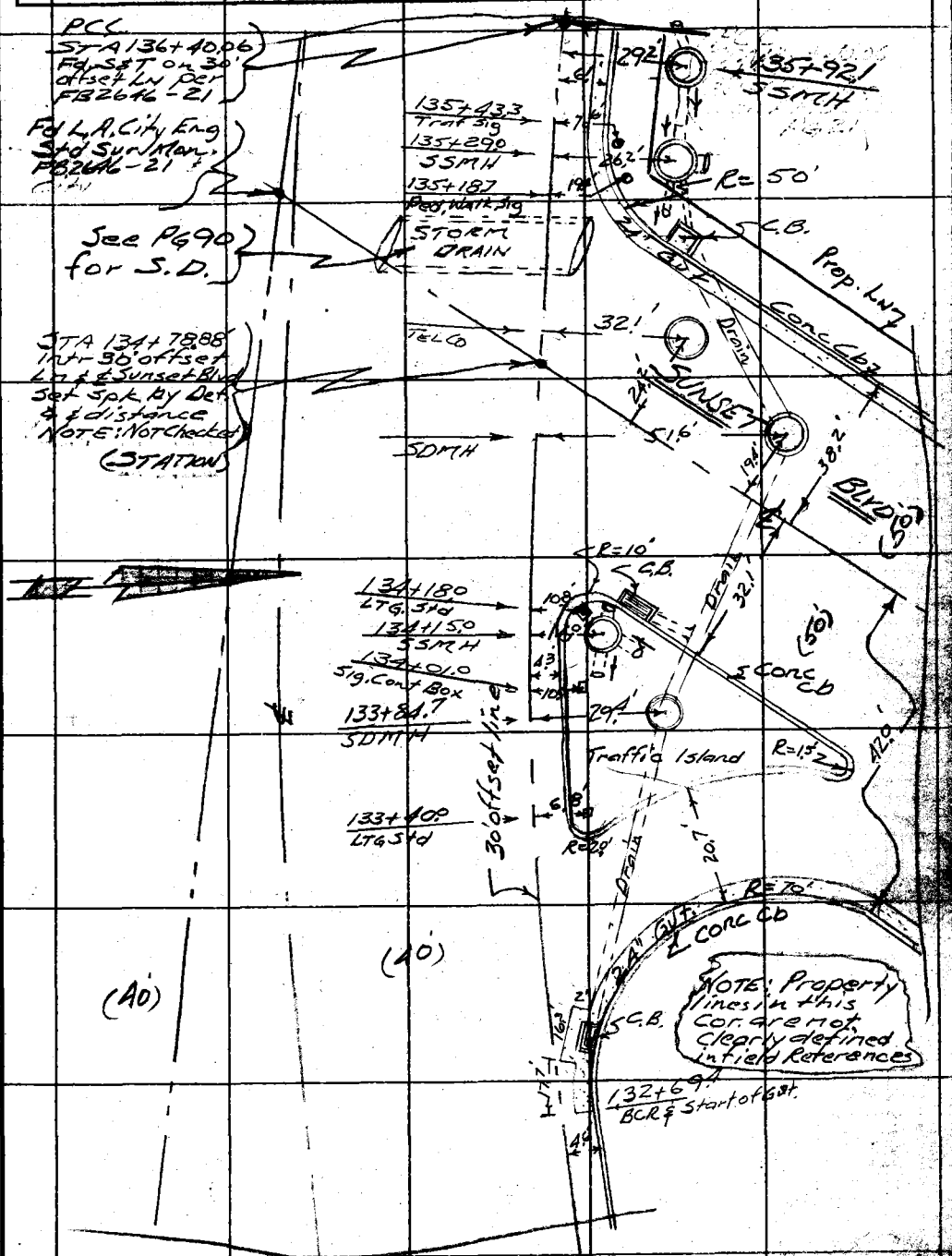
Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of Wtr. Works Dist #29 F. B 2646 Pg. 89
JN 5294.46 Tape Std °F
Surveyed by Mankey Jr.
Notes EFM Jr. Date 6-30-60
Indexed H. E. OTT



FROM TOP PG 88

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769098 CE #247—7-59

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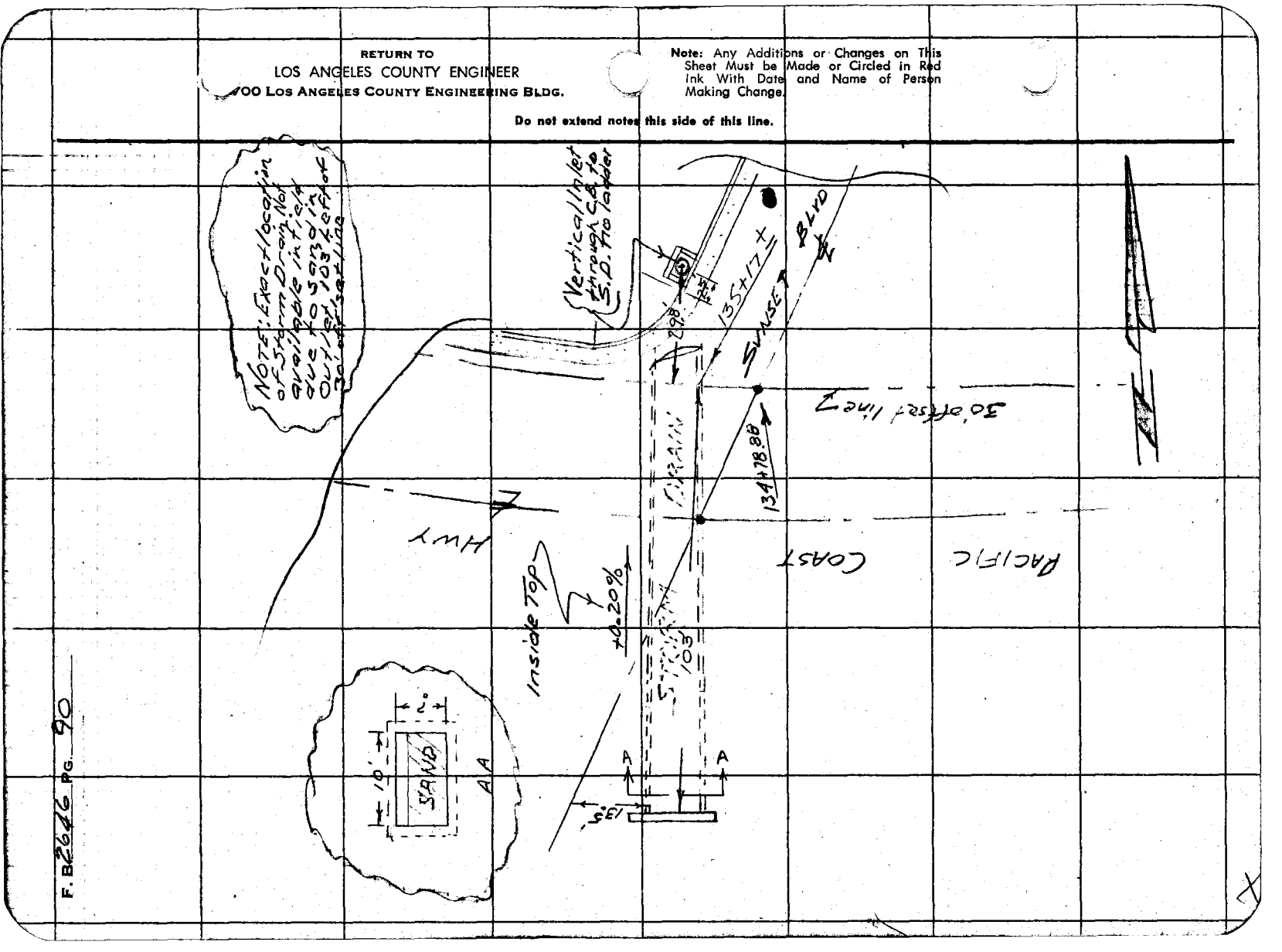

F. B2646 PG. 90

F. B. 2646 Pg. 91

Profile No. ____ X-Sec. No. ____
Notes Red. ____ Date ____ Notes Chkd. ____ Date ____
Plotted ____ Date ____ Checked ____ Date ____
Job No 5294.16 Division No. ____
Survey of Wtr. Works Dist #29
Survey by Mankey Notes EFM Jr. Date 6 m. 30 '60
Map No. ____ Indexed H. E. OTT Date ____

JN 5294.16

WATER WORKS DISTRICT #29

X-SECTIONS

on

PACIFIC COAST HWY

from

BEL-AIR BAY CLUB ROAD

to

P.C.C. WEST of SUNSET BLVD.

Mankey Jr
Voge
Swann
L. Jones
Dover

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

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76L-298 S & E #307—1-56

76L-298 S & E #307—1-56

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STATION	S. S.	H. I.	F. S.	ELEV.	PACIFIC COAST HWY
					LT & So. ⊼ (30') LH. RT. & No.
BM 48-50				20.425'	BM 48-50 EL 20.425' FB 1369-43 USC&GS DISC. H-576-1939, 0.9' Mi. E. of Castellamare Overhead Bridge at N.W. Cor. Priv. Rd. to Bel-Air. Bay Club 35' W. & Priv. Rd. & 6" E. of C.B. in Cb. Ret
107+57.5	SSMH			Rim EL. 19.89'	15.2' Rim
	INVERT on 24" Inlet on W.			5.01'	14.88' Rim to flow line 24" Inlet
	" " " Outlet " E.			4.97'	14.92 " " " " " Outlet
107+58.51	E.C. (See PG. 84)			19.5'	⊼
"				19.3'	10'
"				19.8'	30' CTR. HWY.
108+00				19.4'	⊼
"				19.4'	1' Toe of Slide
"				19.7'	30' CTR. HWY.
109+00					⊼ Under Slide
"				19.2'	3' Toe of Slide
"				19.5'	30' CTR. HWY
T.P.				19.34'	
110+02.94	B.C. (See PG. 84)			18.4'	⊼
"				18.0'	10'
"				19.0'	30' CTR HWY
110+57.6	SSMH			Rim EL 18.94'	16' Rim
	INVERT on 24" Inlet on W.			5.40'	13.44' Rim to flow line 24" Inlet
	" " " Outlet " E			5.36'	13.48 " " " " " Outlet

F. B. 2646 Pg. 92
Survey of Wtr Works Dist. #29 Job No. 5294.16 Division No. Notes Red. Plotted Profile
Survey by ETM Jr. Notes Mankey Jr. Date Date No. X-Sec.
Indexed H. E. Ott Date Notes Chkd. Checked Date No.

76L-298 S & E #307—1-56

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Profile Notes Red. Plotted Job No. 5294 Division No.
No. X-Sec. Date Date Survey of W.C. Works Dist #29
No. Notes Chkd. Checked Survey by Mankey Notes Typed Date 6-30-60
No. Date Date Map No. Indexed H. E. Ott Date

F. B. 2646 Pg. 93

STATION	B. S.	H. I.	F. S.	ELEV.	PACIFIC COAST HWY
					LT & So ℄ (30) Rt. & No.
111+00				18.2'	
"				17.5'	10'
"				18.6'	30' CTR HWY
112+00				18.6'	
"				17.9'	10'
"				19.1' (18.58')	30' CTR. HWY
113+00 T.P.				19.6'	
"				18.4'	10'
"				20.3'	30' CTR. HWY.
113+18°	INVERT of 18" RCP			15.24'	10.5' flow line
"	" " 18" " ℄ (30) LN.			14.74' ± Rim EL.	(4.6% ± Flowing South)
113+60°	SSMH			21.08'	11.0° Rim
	INVERT on 24" Inlet on W			5.73	15.35' Rim to flow line 24" Inlet
	" " " Outlet to E			5.71'	15.37 " " " " " Outlet
113+72.52	E.C. (See Pg. 85)			20.6	
114+00				21.0'	
"				20.3'	10'
"				21.5'	30' CTR. HWY.
115+00				23.2'	
"				22.9'	10'
"				23.6'	30' CTR. HWY

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.	PACIFIC COAST HWY LT. & SO.	⊼ = (30) LN	RT. & NO.
T.P.				23.85'			
115+54.58	BC	(see PG 85)		24.1'		⊼	
116+00				24.6'		⊼	
"				24.3'			9'
"				23.8'	30' CTR HWY		
116+01	INVERT on 48" R.C.P.			18.65'			9.5' flowline
"	" " " " & (30) LN			17.90' Rim EL.		⊼	(7.5 % flowing South)
116+82.6	SSMH			24.86'	8.0' Rim		
	INVERT on 24" Inlet on W			16.09'	18.77' Rim to flowline 24" Inlet		
	" " " Outlet to E			6.07'	18.79' " " " " " Outlet		
117+00				24.5		⊼	
"				24.3'			10'
"				23.9'	30' CTR. HWY		
118+00				24.5'		⊼	
"				24.2'			10'
"				23.7'	30' CTR. HWY		
119+00				24.6'		⊼	
"				24.7'			10'
"				23.7'	30' CTR. HWY		
119+22.3	E. Cor Conc Slab			24.51'			4.3' Conc Slab.
119+55.0	W. " " "			24.42'			7.0' " "

F. B. 2646 Pg. 94 Job No. 504.16 Division No. Notes Red. Plotted Profile
Survey of Wtr. Works Dist #29 Date Date No. X-Sec.
Survey by ETM Jr. Notes Monkey Jn Notes Chkd. Checked No.
Indexed H. E. Ott Date Date Date

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.	PACIFIC COAST HWY	
					LT & SO.	⊼ (30') LN RT & NO.
				23.80'	BM 48-51 EL 23.795 FB 1369-45	
BM 48-51				23.83	City of Los Angeles 10696-17, Std Sur. Mon, on ℄ P.I. of Pacific Coast Hwy, 28' ± E. of Pole	
					#73957, 2.04 Mi N.W. of Channel Rd.	
120+00				24.2'	⊼	
"				24.1'		10'
"				23.6' Rim EL.	30' CTR. HWY	
120+02.6	SSMH			24.28'	6.0' Rim	
	INVERT on 24" Inlet on W.			6.43'	17.85' Rim to flowline	24" Inlet
	" " " Outlet to E.			6.41'	17.87' " " " "	" Outlet
120+59.45	E.C.	(See Pg. 86)		23.7'	⊼	
121+00				23.4'	⊼	
"				23.2'		10'
"				23.2'	30' CTR HWY	
121+84.0	INVERT on 24" CMP			16.21'	19.38 3.17 Grate to F.L.	13.6' flowline
"	" " " "			15.78'	⊼	(3.15% flow South)
122+00				22.6'	⊼	
"				22.0'		10'
"				23.8'	30' CTR. HWY	
123+00				23.1'	⊼	
				22.9'		10'
				24.6'	30' CTR. HWY	

Profile No. X-Sec. No. Notes Red. Date. Notes Chkd. Date. Plotted Date. Job No. 5294.16 Division No. Survey of Wtr. Works Dist #29 Survey by Mankey Jr. Notes ETM Date 6-30-60 Map No. Indexed H F OTT Date.

F. B. 2646 Pg. 95

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.	PACIFIC COAST HWY LT & So.	⊼ = (30) LH	RT. & No.
123+04.4	SSMH			Rim El. 24.10'			
	INVERT on 24" Inlet on W.			7.29'	16.81' Rim to flow line on 24" Inlet	9.7 Rim	
	"	" " Outlet	" E	7.27'	16.83' " " " " " " Outlet		
124+00				23.2'		⊼	
"				23.2'			3' Toe of Slope
"				24.6'	30' CTR. HWY		
125+00				23.1'		⊼	& Toe of Slope
"				24.1'	30' CTR. HWY		
T.P. 126+00				23.18' 22.5'		⊼	
"				22.4'			3' Toe of Slope
"				23.7'	30' CTR. HWY		
127+00				21.9'		⊼	
"				21.7'			10' Toe of Slope
"				23.0'	30' CTR. HWY		
127+32.46	BC	(See Pg 87)		21.7'		⊼	
128+00				21.6'		⊼	
"				21.6'			7' Toe of Slope
"				22.4'	30' CTR HWY		
TP 129+00				21.65' 21.3'		⊼	
"				20.9'			10'
"				21.8'	30' CTR. HWY		

F. B. 2646 Pg. 96

Job No. 5294.16 Division No. Notes Red. Plotted Profile

Survey of Wtr. Works Dist #29 Date No. X-Sec.

Survey by ETM Jr. Notes Mankey Jr. Notes Chkd. Checked

Indexed H. E. OTT Date Date No.

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.	PACIFIC COAST HWY LT & So.	⊼ = (30) LN. RT. & No.
				Rim EL		
129+04.5	SSMH			21.51	5.5' Rim	
	INVERT on 24" Inlet on W.			7.58'	13.93' Rim to flowline on 24" Inlet	
	" " " Outlet to E.			7.50'	14.01' " " " " 24" Outlet	
130+00				20.8		⊼
"				20.6'		10'
"				21.3'	30' CTR. HWY	
131+00				20.2'		⊼
"				19.9'		10'
"				20.7'	30' CTR. HWY	
131+12.3	Start Conc Cb			19.9'		7.6' Gut
"				20.41'		" Cb
TP				20.17'		
132+00				19.5'		⊼
"				19.3'		5.9' Gut
"				19.85'		" Cb
"				20.1'	30' CTR HWY	
				Rim EL.		
132+17.2	SSMH			19.68'	8.3' Rim	
	INVERT on 24" Inlet on W.			7.86'	11.82' Rim to flowline on 24" Inlet	
	" " " Outlet to E.			7.83'	11.85' " " " " " " Outlet	

Profile Notes Red. ____ Plotted ____ Job No. 529416 Division No. ____ F. B. 2646 Pg. 97
No. ____ Date ____ Date ____ Survey of Wtr. Works Dist #29
X-Sec. Notes Chkd. ____ Checked ____ Survey by Mankey Jr. Notes ETMWh Date 7-1-60
No. ____ Date ____ Date ____ Map No. ____ Indexed H. E. OTT Date ____

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.	PACIFIC COAST HWY LT & SO.	⊼ = (30') LN. RT & NO
132+69.4 E end NECR Coast Hwy & Sunset Blvd				19.39'		46' Cb
" " " " " " " "				18.75'		" Gut
N " " " " " " "				21.65'		Cb.
" " " " " " " "				21.00'		Gut
Mid of 2' Rad at E. end Traf. Isl.				19.53'		6.0' Cb
" " " " " " " "				18.8'		" Gut
" " 1.5' " N. " " "				20.68'		Cb
" " " " " " " "				20.0'		Gut
134+00				18.7'	⊼	
"				18.6'		4.3' Gut (Traf Island)
"				19.17		" Cb (" ")
"				19.2'	30' CTR. HWY	
134+15.0	SSMH			Rim El. 18.89'		16.0' Rim
INVERT on 15" Inlet on W.				8.54	10.35' Rim to flow line of 15" Inlet	
" " 8" " " N.				9.22	9.67' " " " " " 8" "	
" " 24" Outlet " E				8.24	10.65' " " " " " 24" outlet	
E. end 6.0' Rad S.W. Cor Traf. Island				19.05'		4.3' Cb
" " " " " " " "				18.4'		" Gut
N " " " " " " "				18.53'		Cb
" " " " " " " "				17.8'		Gut

F. S. 2646 PG. 98

Job No. 5294.16 Division No. Notes Red. Plotted Profile
Survey of Wtr Works Dist #29 Date Date No.
Survey by ETM Jr. Notes Mankey Jr. Notes Chkd. Checked X-Sec.
Indexed H. E. Ott Date Date Date No.

76L-298 S & E #307—1-56

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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.

STATION	B. S.	H. I.	F. S.	ELEV.	PACIFIC COAST HWY LT & SO.	⊼=(30') LN	RT & NO
134+78.88	INTR COAST HWY. & SUNSET BLVD			18.6'		⊼	
	(See PG 89)			18.4'			10
				18.4'			30'
				18.8'	30' ℄ Intr Sunset & Coast Hwy		
	INVERT on S.D. at C.B. at N. end Cb. Ret			4.53'			29.8' flow line
	Inside Top " " 103' So. (30) LN			7.20'	103' (Ascending North at 0.2%,		
	(Pg 90 for location)						Inside Top) (See Pg 90)
	N. end NWCR Coast Hwy. & Sunset Blvd			17.78'			Cb
	" " " " " "			16.78'			Gut
	W " " " " " "			17.90'			6.1' Cb
	" " " " " "			17.29'			" Gut
135+29.0	SSMH			Rim El. 18.01'			26.2' Rim
	INVERT on 15" Inlet on W.			8.65'	9.36' Rim to flow line		15" Inlet
	" " " Outlet to E			8.64'	9.37' " " "		" Outlet
135+92.1	SSMH			Rim El. 18.64'			29.2' Rim
	INVERT on 15" Inlet on W.			9.02'	9.62' Rim to flow line		15" Inlet
	" " " Outlet to E			8.89'	9.75' " " "		" Outlet

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 5294.16 Division No. ____ F. B. 2646 Pg. 99
Date ____ Date ____ Survey of Wtr Works Dist #29
X-Sec. No. ____ Notes Chkd. ____ Checked ____ Survey by Monkey Jr. Notes ETM Jr. Date 7-1-60
Date ____ Date ____ Map No. ____ Indexed H. E. OH Date ____

76L-298 S & E #307—1-56

PLEASE RETURN TO
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700 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.	PACIFIC COAST HWY	
					LT & So.	⊼ = 30' LN RT & No.
136+40.06	P.C.C.	West of Sunset		18.3'	(see PG 89)	⊼
"				17.74'		6.' Gut
"				18.34'		" Cb
"				19.2'	30' CTR. HWY	
					BM 48-53 EL. 17.904'	FB 1369-46
BM 48-53 (Fd)				17.89'	City of L.A. 10696-17, Std. Sur. Mon., on approx. ℄ Intr. of Pacific Coast Hwy & Sunset Blvd	

F. B. 2646 Pg. 100 Job No. 5294.16 Division No. Notes Red. Plotted Profile
Survey of Wtr Works Dist #29 Date Date No. X-Sec.
Survey by ETM Jr. Notes Mankey Jr. Notes Chkd. Checked No.
Indexed H. E. OTT Date Date Date

Notes Ck'd by Miller	Survey of Wtr Works Dist #29	F. B 2646	Pg. 101
Map No.	JN 529416 Tape Std °F		
Office Work	Surveyed by Mankey Jr.		
Checked	Notes ETM Jr. Date 5-11-60		
Date	Indexed C. Johnson 5-31-60		

JN 529416

WATER WORKS DISTRICT #29

TIES

on

BICKNELL AVE.

NEILSON WAY TO OCEAN AVE

on

OCEAN AVE. (SOUTH)

BICKNELL AVE to PICO

on

APPIAN WAY

PICO to 500' West of BROADWAY

Mankey
Voge
Swann
L. Jones

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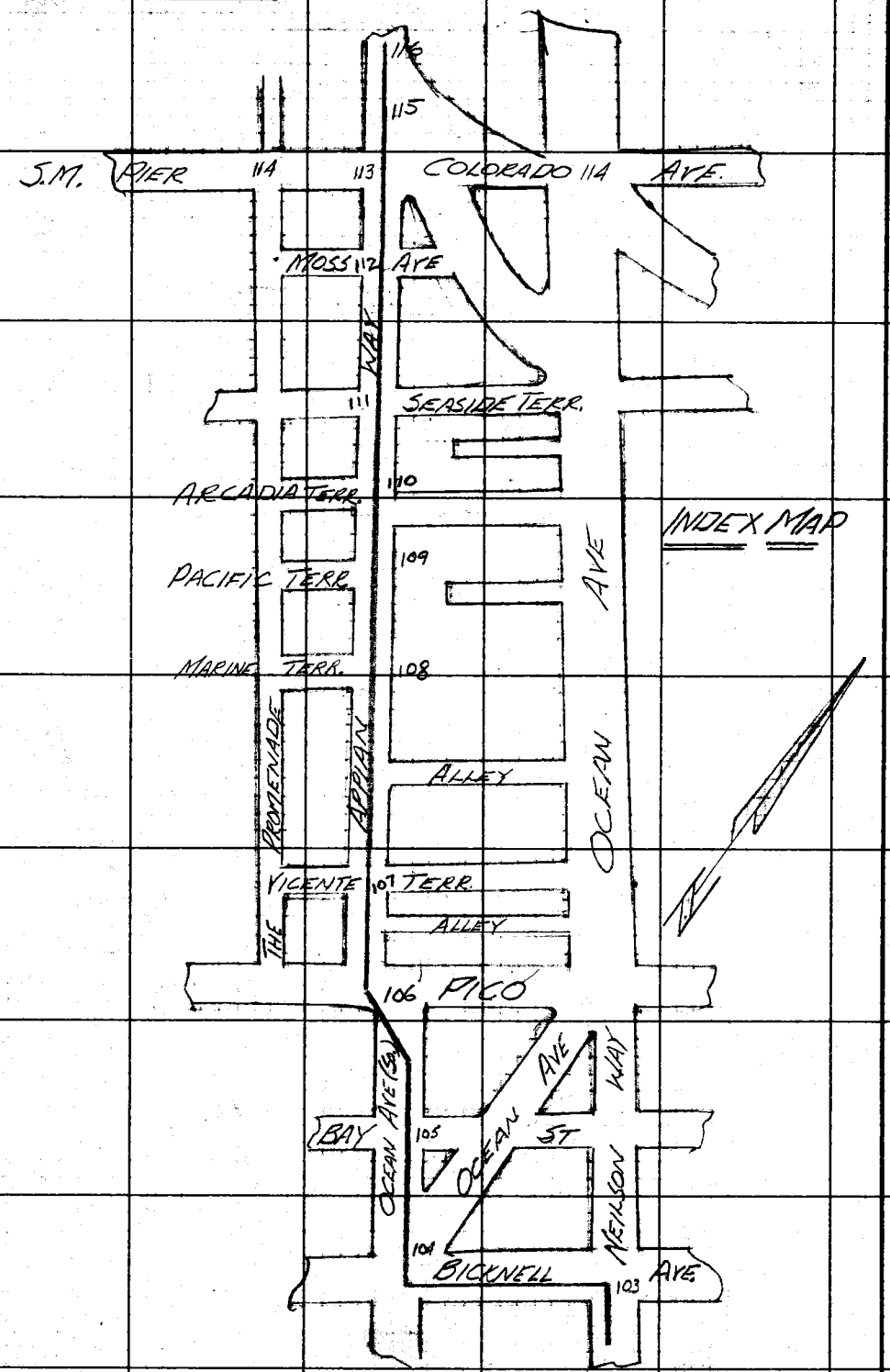
RETURN TO
LOS ANGELES COUNTY ENGINEER
700 Los Angeles County Engineering Bldg.

763095 CE #247—7-58

F. B. 2646 PG. 102



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

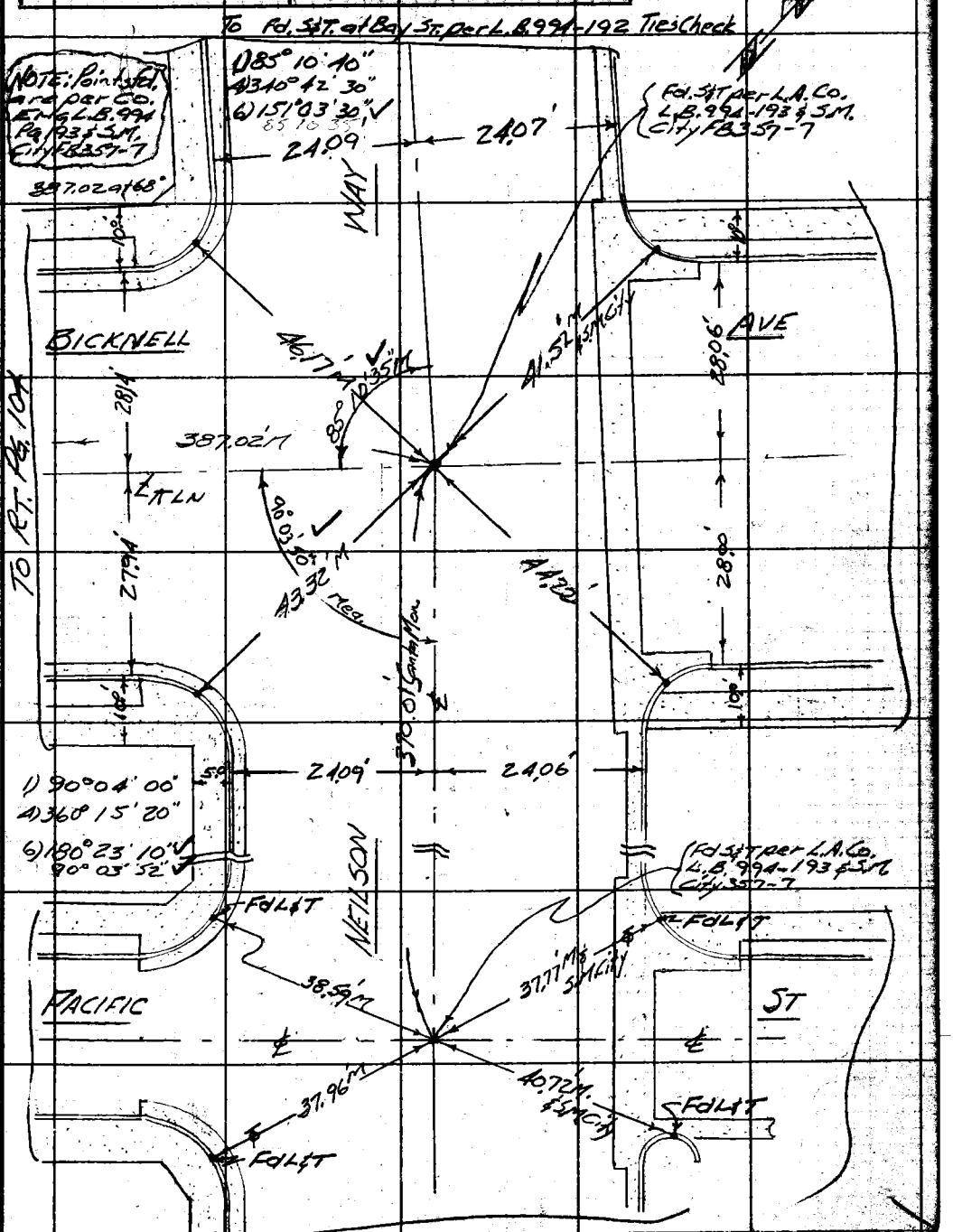
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Do not extend noted this side of this line.

Notes Ck'd by Miller	Survey of Wtr Works Dist #29
Map No.	JN 5294.16 Tape 088 Std 68° °F
Office Work	Surveyed by Mankey Jr.
Checked	Notes ETM, JC Date 5-11-60
Date	Indexed C. Johnson

F. B. 2646 PG. 103

W.S. 21-A-6



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 ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

763098 CE #247—7-53

RETURN TO
LOS ANGELES COUNTY ENGINEER
900 LOS ANGELES COUNTY ENGINEERING BLDG.

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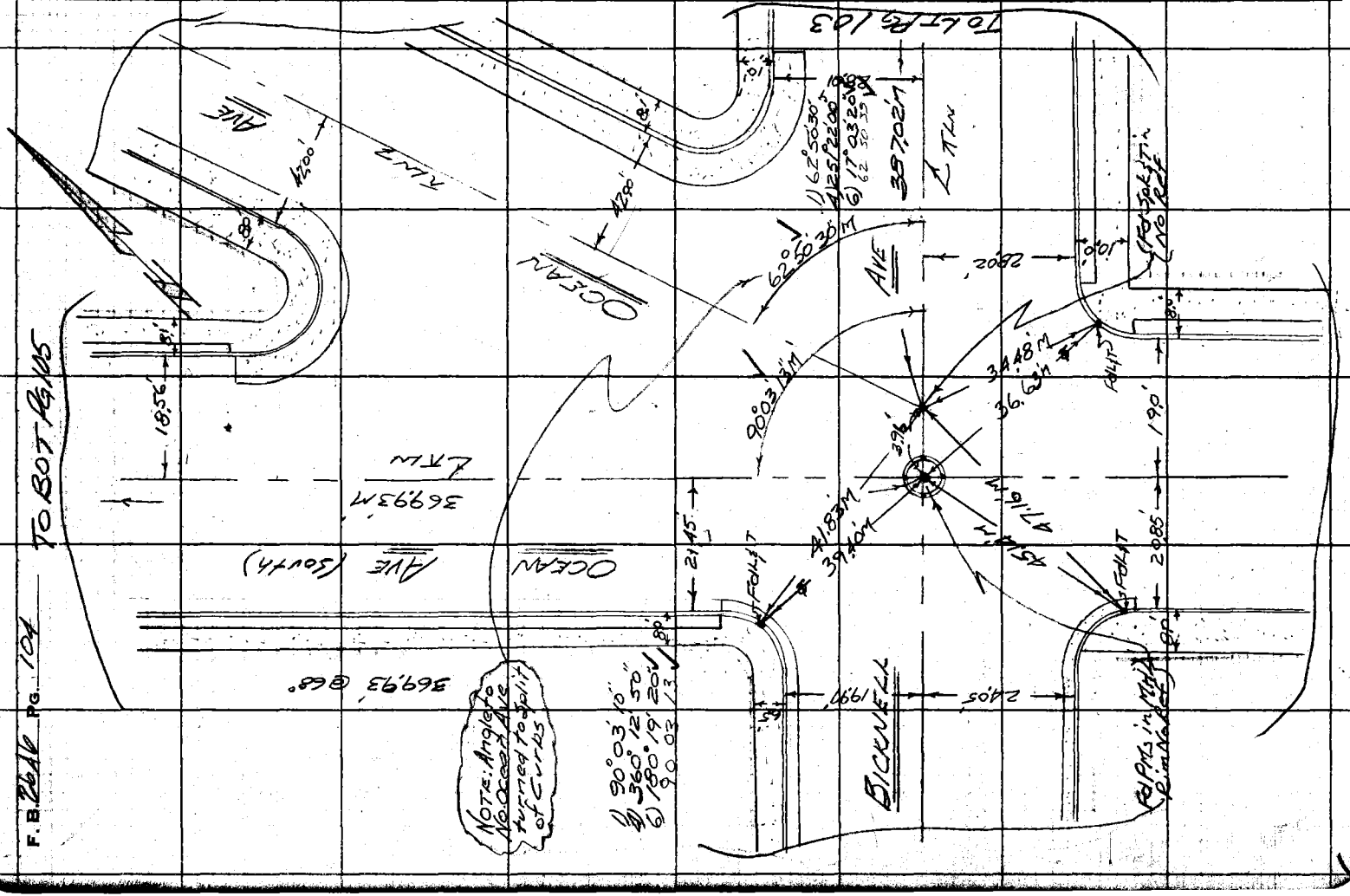
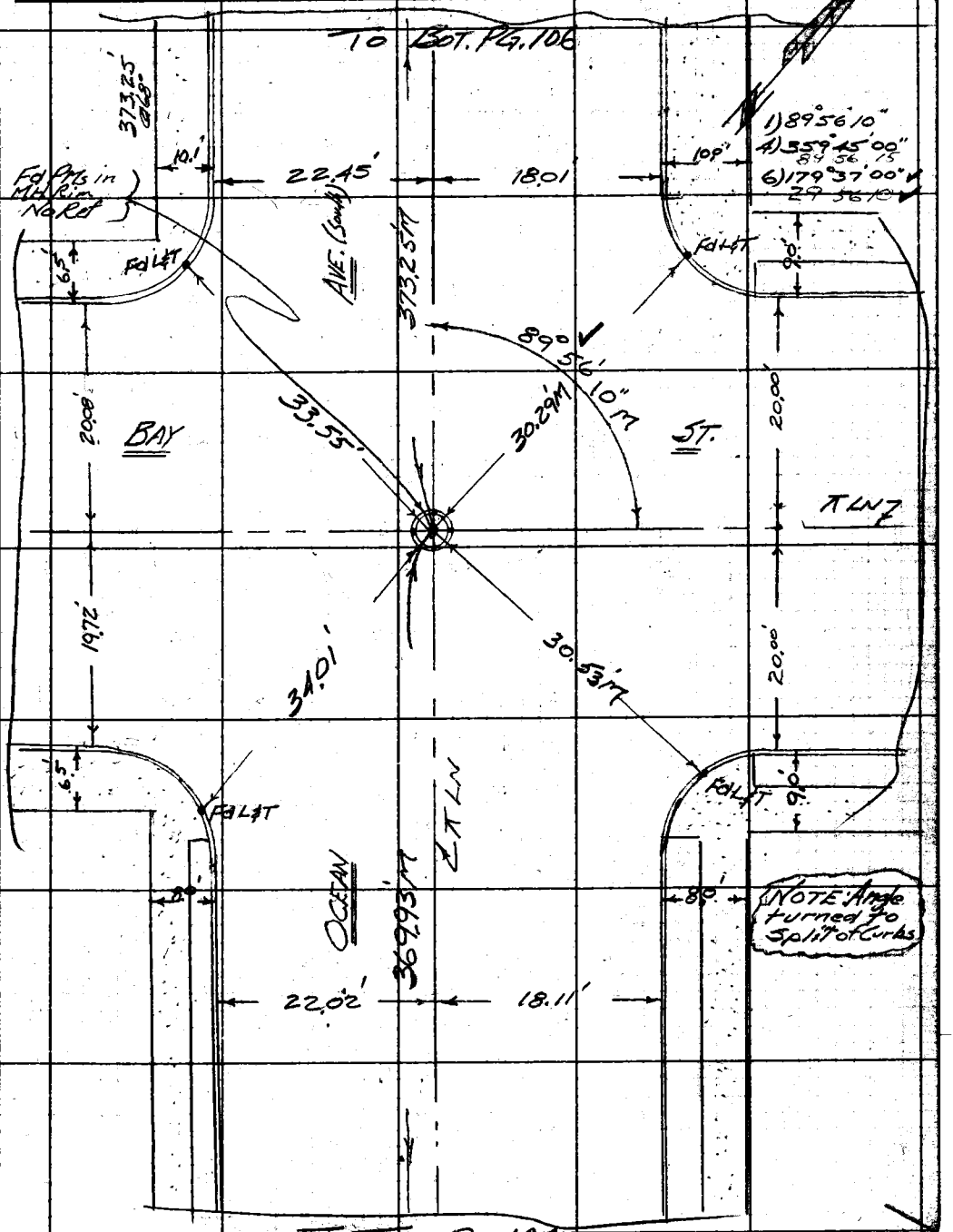
W.S. 21 - A-6



Notes Ck'd by Miller	Survey of Water Works Dist #29
Map No.	JN 5294.16 Tape D88 Std 68° °F
Office Work	Surveyed by Mankey Jr.
Checked	Notes ETC Date 5-12-60
Date	Indexed

F. B. 26A6 PG. 105

W.S. 21-A-6



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 ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

763C98 CE #247—7-59

F. B. 2646 PG. 106

RETURN TO
LOS ANGELES COUNTY ENGINEER
100 LOS ANGELES COUNTY ENGINEERING BLDG.

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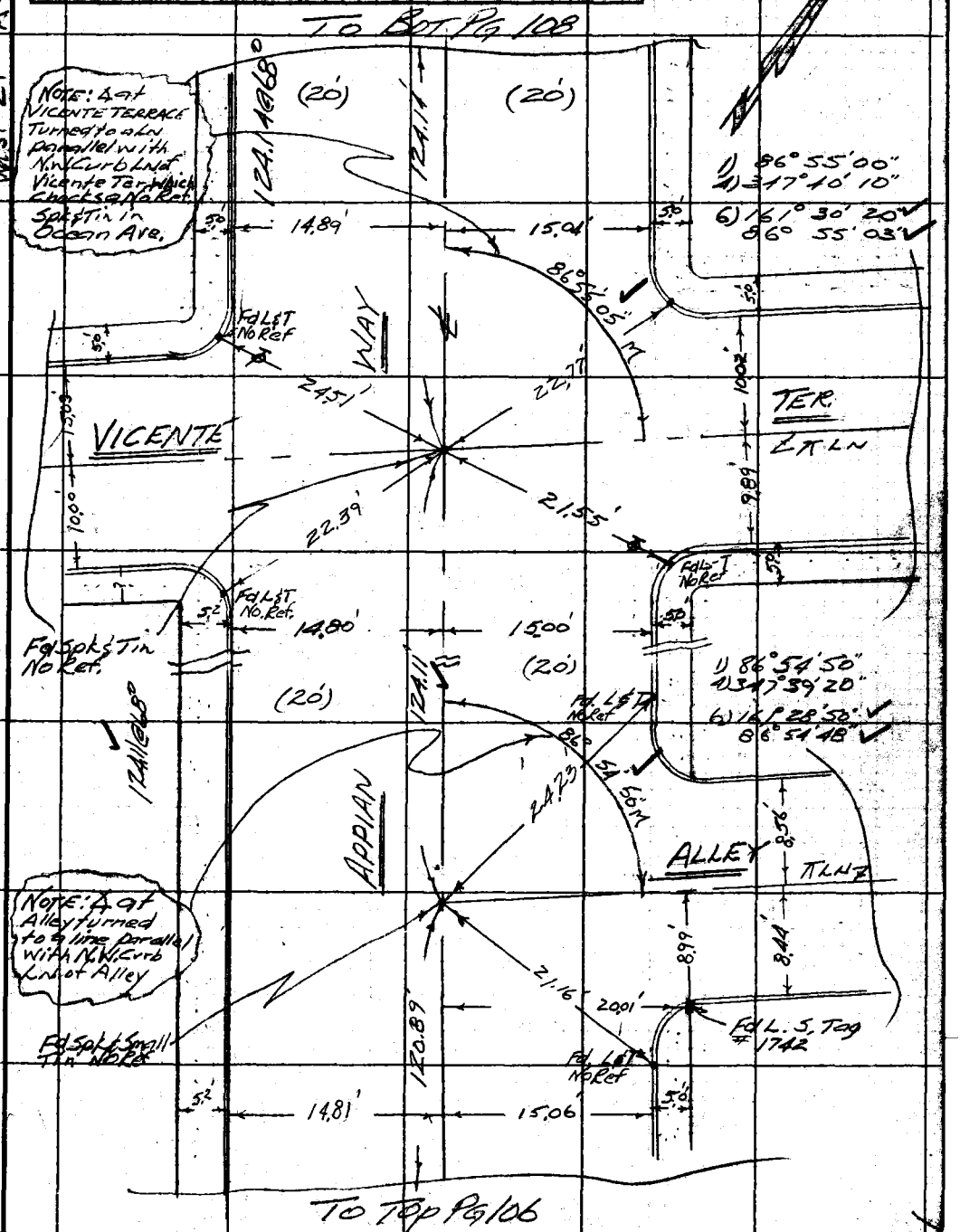
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Notes Ck'd by Miller	Survey of Wtr. Works Dist 29
Map No.	JN 594.16 Tape 088 Std 68° °F
Office Work	Surveyed by Mankey Jr.
Checked	Notes ETM Jr. Date 5-13-60
Date	Indexed C. Johnson

F. B. 2646 PG. 107



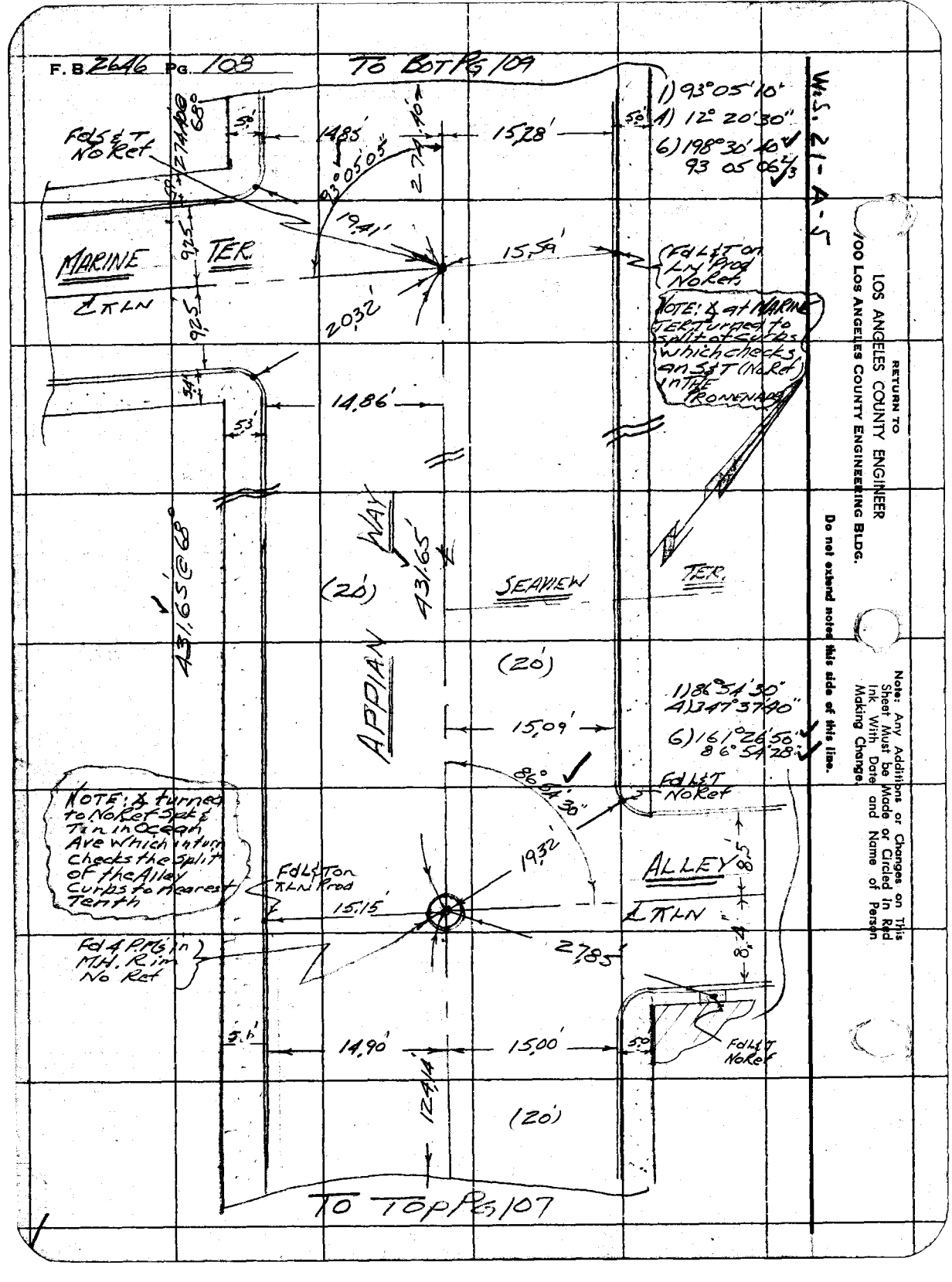
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Do not extend notes [illegible] side of this line.

RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

763098 CE #247—7-53

8.44


F. B. 2646 PG. 108
TO BOT PG 109
W.S. 21-A-5
1) 93°05'10"
4) 12°20'30"
6) 198°30'40"
93 05 06 2/3
FdS&T No Ref
274.40 @ 68°
5.0'
14.85'
15.28'
93°05'05"
274.40'
19.41'
15.59'
FdL&T on LN Prod No Ref
MARINE TER.
℄ ⊼ LN
9.25
20.32'
NOTE: ∡ at MARINE TER turned to split of curbs which checks an S&T (No Ref) in the PROMENADE
14.86'
5.3'
431.65 @ 68°
WAY
431.65'
(20')
SEAVIEW TER.
APPIAN
(20')
1) 86°54'30"
4) 347°37'40"
6) 161°26'50"
86°54'28"
15.09'
86°54'30"
FdL&T No Ref
NOTE: ∡ turned to No Ref Spk & Tin in Ocean Ave which in turn checks the split of the Alley Curbs to nearest Tenth
FdL&T on ⊼ LN Prod
19.32'
ALLEY
8.5'
15.15'
℄ ⊼ LN
Fd 4 P.M.'s in M.H. Rim No Ref
27.85'
8.4'
5.1'
14.90'
15.00'
5.0'
FdL&T No Ref
124.14'
(20')
TO TOP PG 107
RETURN TO
LOS ANGELES COUNTY ENGINEER
100 LOS ANGELES COUNTY ENGINEERING BLDG.
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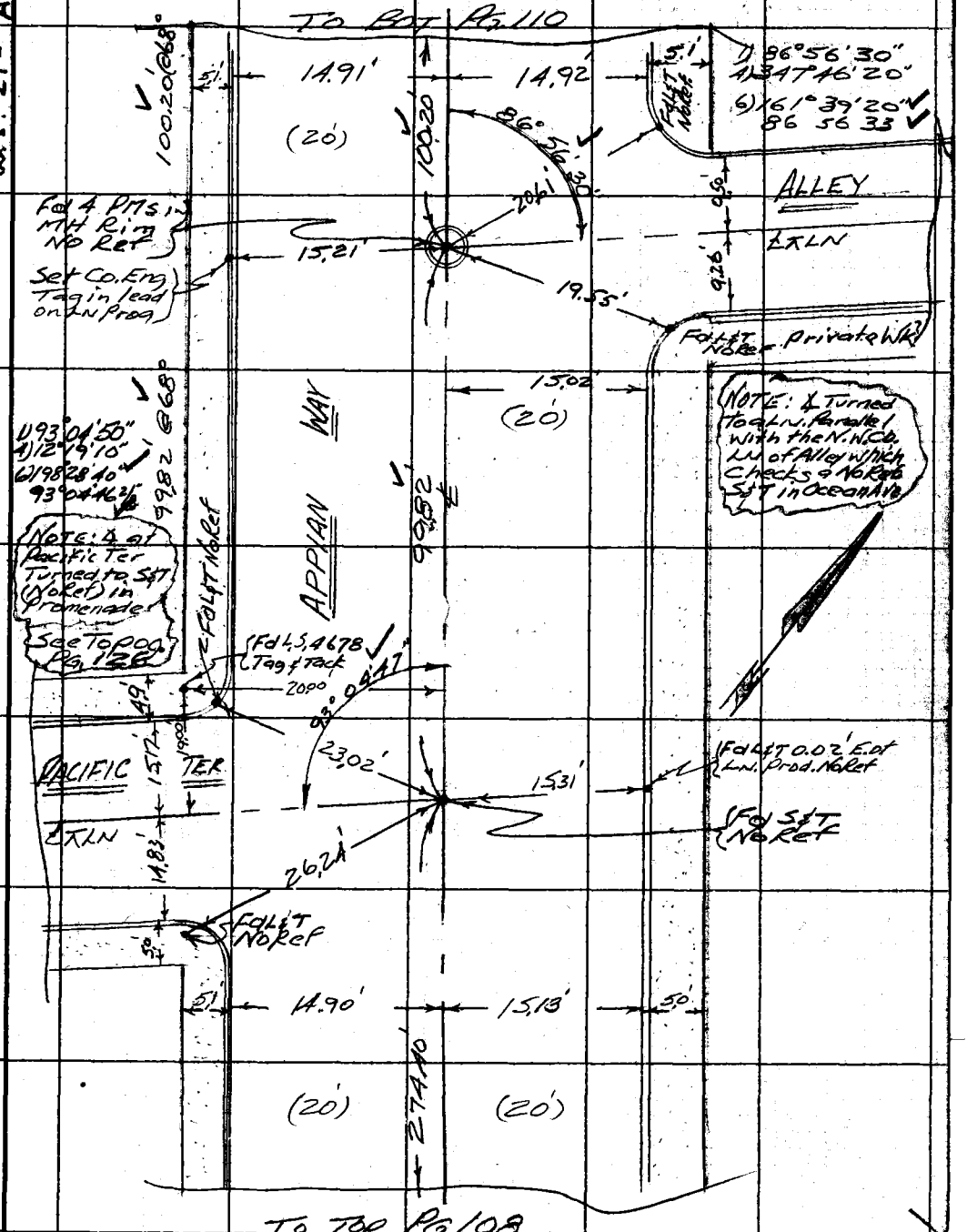
Note: Any Additions or Changes on This Sheet Must be Made or Circled In Red Ink With Date and Name of Person Making Change.

Notes Ck'd by Miller	Survey of Wtr Works Dist #29
Map No.	JN 5294.16 Tape 088 Std 68° °F
Office Work	Surveyed by Mankey Jr.
Checked	Notes E.T.M. Jr. Date 5-16-60
Date	Indexed C. Johnson

F. B 2646 Pg. 109

W.S. 21 - A-5



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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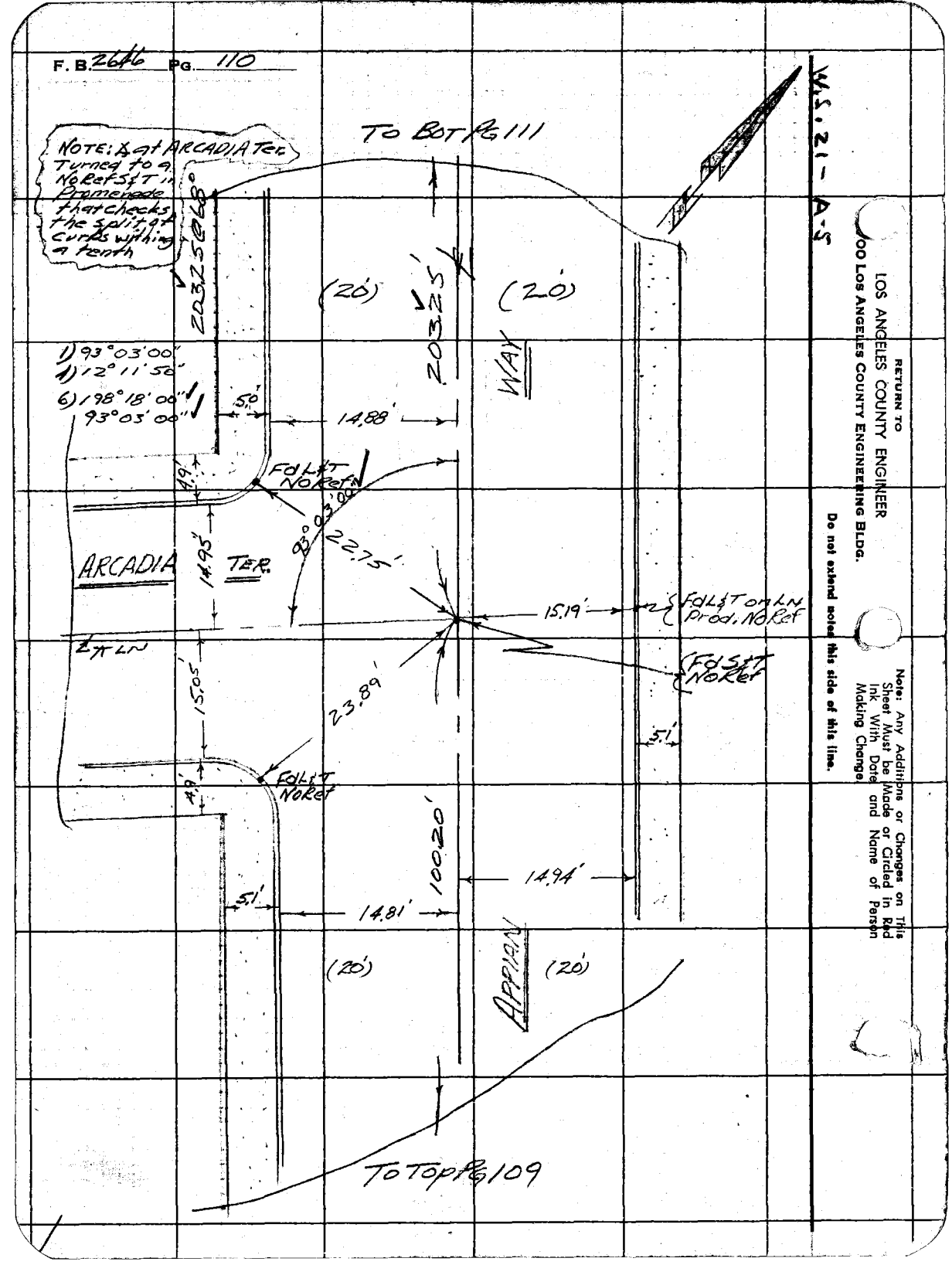
RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

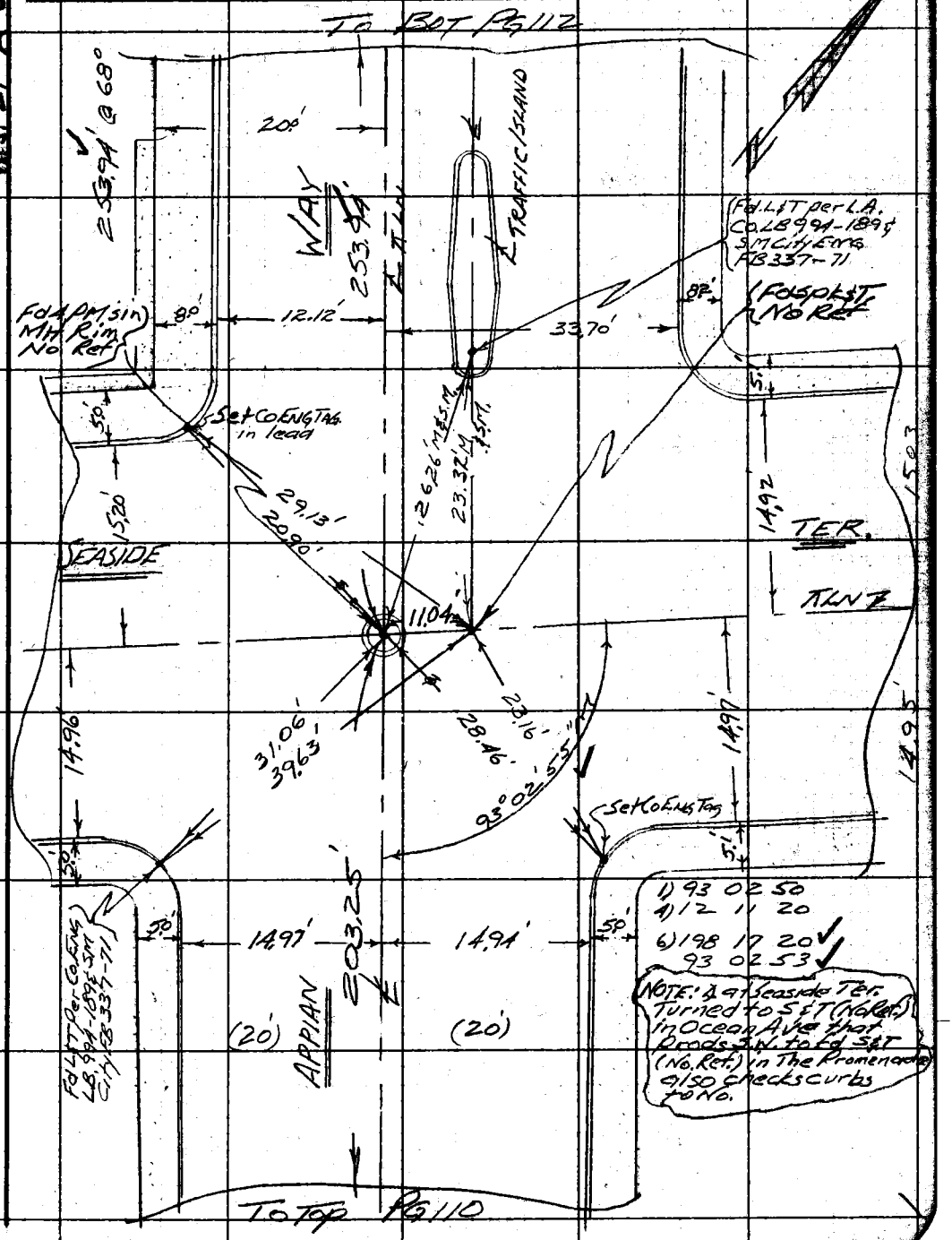
763098 CE #247—7-53

F. B. 2646 Pg. 110



Notes Ck'd by Miller	Survey of Wtr. Works Dist #29	F. B. 2646 Pg. 111
Map No.	JN 5294.16 Tape 088 Std 68° °F	
Office Work	Surveyed by Mankey Jr.	
Checked	Notes EPM Jr. Date 5-17-60	
Date	Indexed A. C. Johnson	

W.S. 21-A-5



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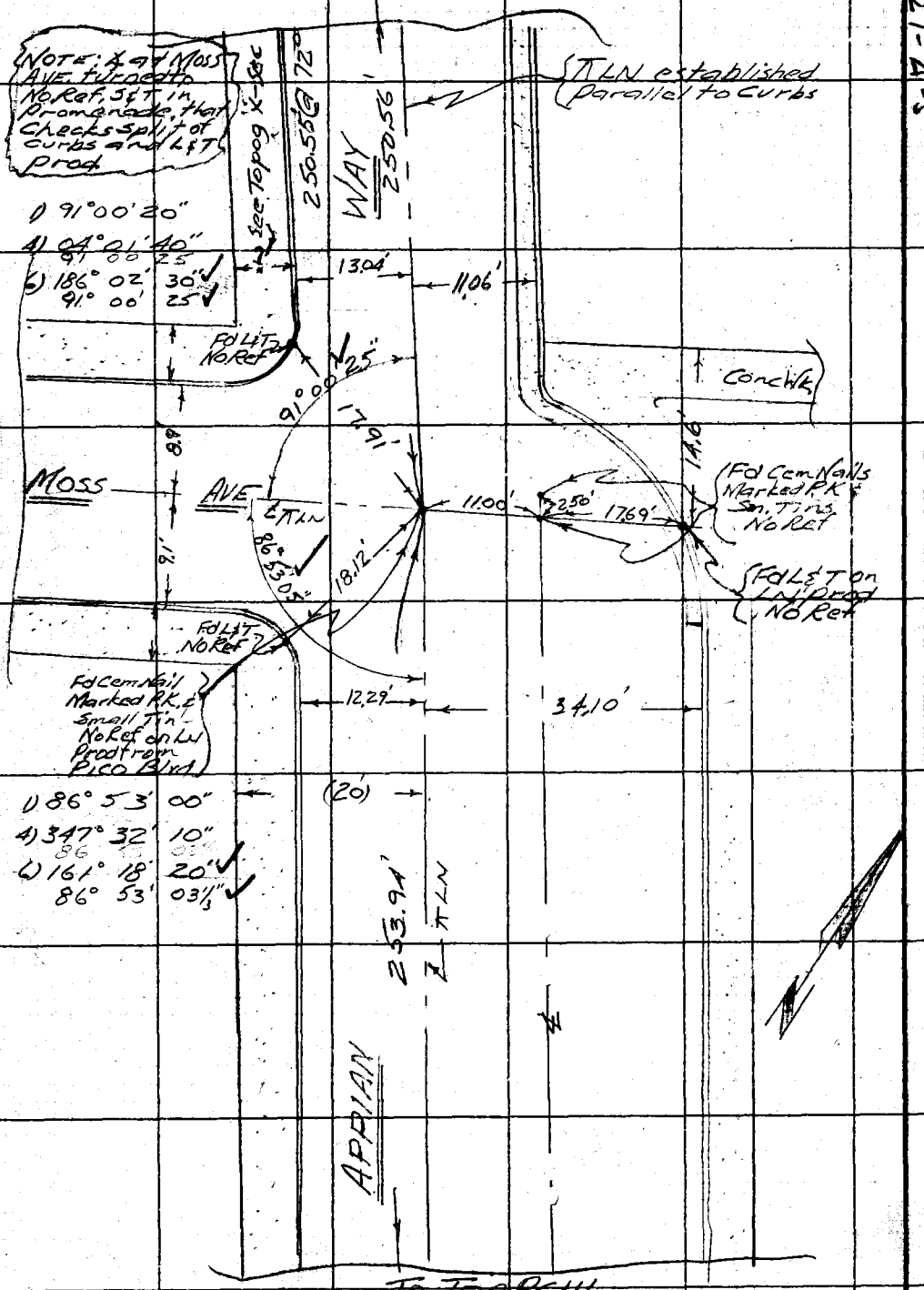
RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

763093 CE #247—7-53

F. B. 2646 Pg. 112

To Bot Pg 113

W.S. 21-A-5



RETURN TO
LOS ANGELES COUNTY ENGINEER
700 Los Angeles County Engineering Bldg.

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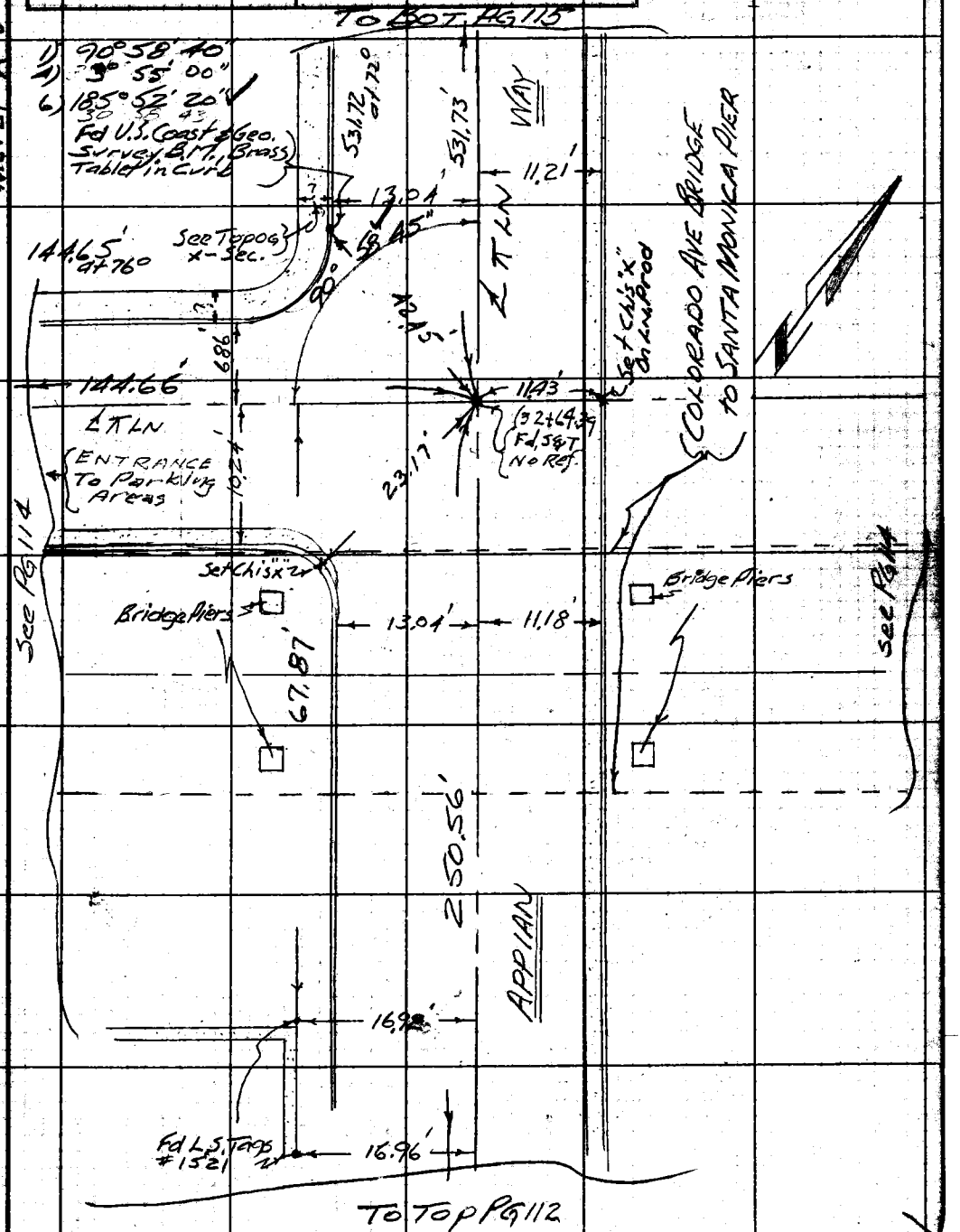
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Notes Ck'd by Miller	Survey of Wtr. Works Dist #29
Map No.	JN 5294.16 Tape Std °F
Office Work	Surveyed by Mankey Jr.
Checked	Notes EFM Jr. Date 5-17-60
Date	Indexed A. C. Johnson

F. B. 2646 PG. 113



W.S. 21-A-5

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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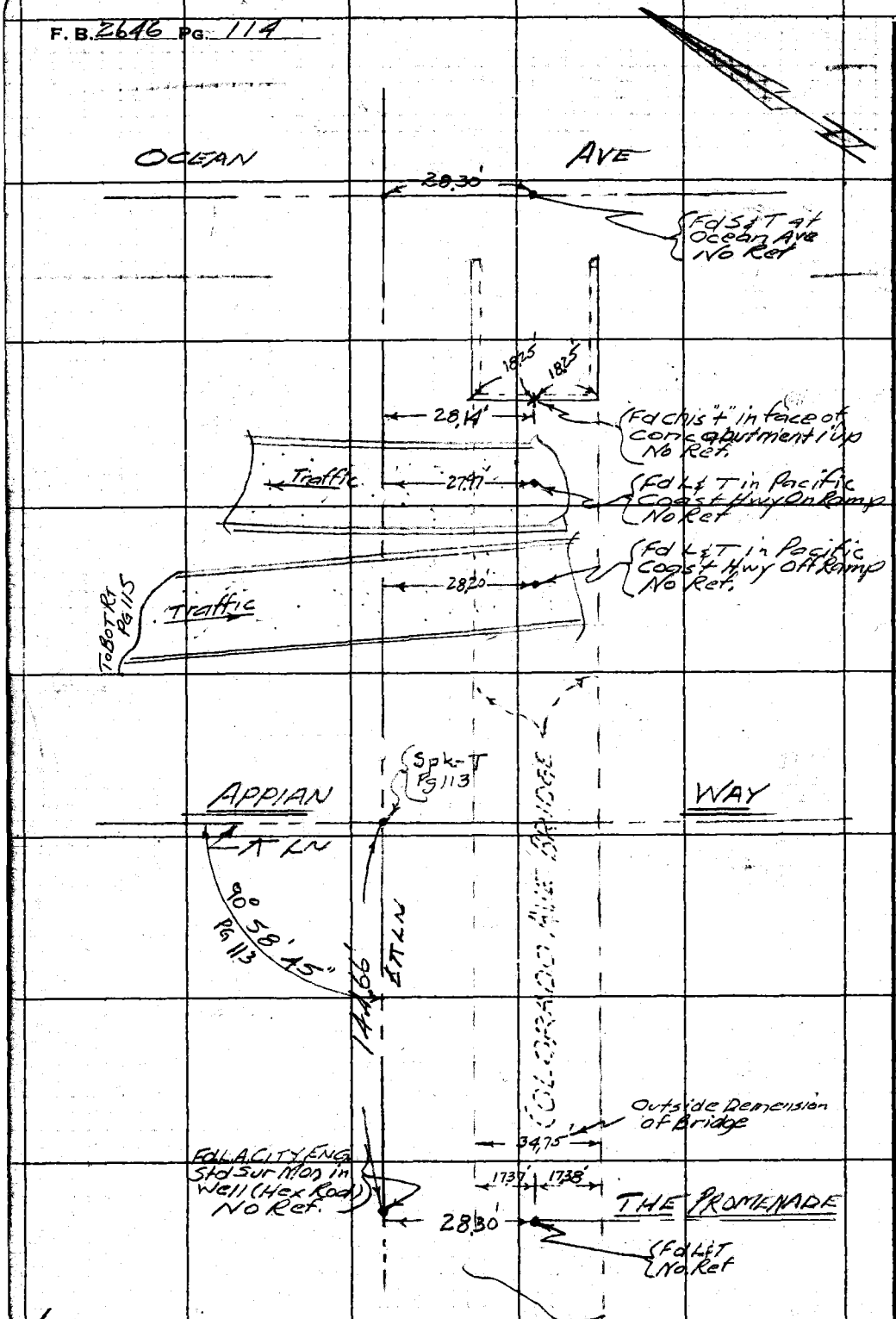
RETURN TO
LOS ANGELES COUNTY ENGINEER
1100 LOS ANGELES COUNTY ENGINEERING BLDG.

76509S CE #247—7-53

F. B. 2646 PG. 114

W. S. 21 - A-5



RETURN TO
LOS ANGELES COUNTY ENGINEER
100 LOS ANGELES COUNTY ENGINEERING BLDG.

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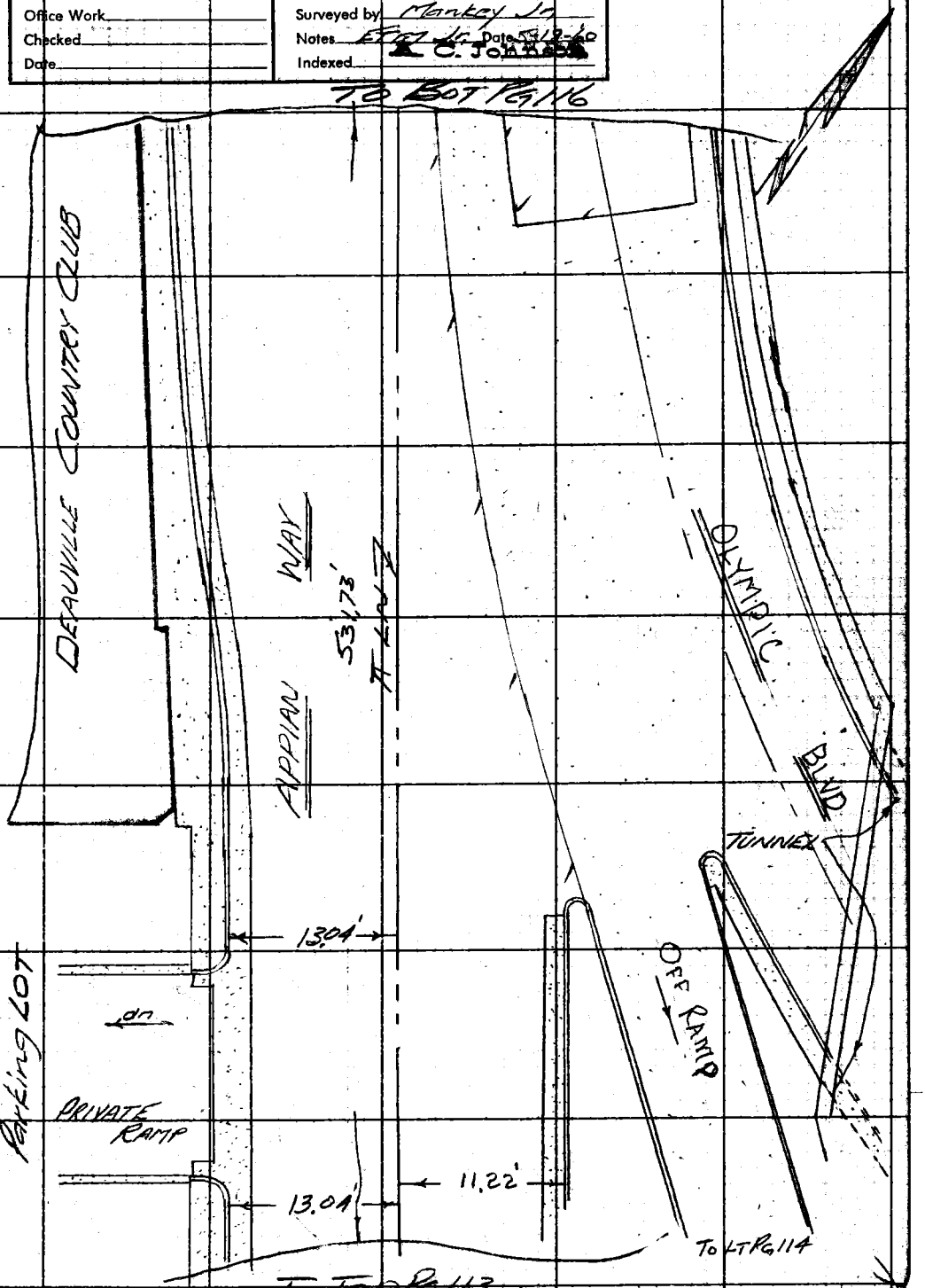
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red. Ink With Date and Name of Person Making Change.

Notes Ck'd by	Survey of Wtr Works Dist #25
Map No.	JN 5294.16 Tape 088 Std 68° °F
Office Work	Surveyed by Mankey Jr
Checked	Notes EFM Jr Date 5-19-60
Date	Indexed C. Johnson

F. B. 2646 PG. 115



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 ENGINEER
900 LOS ANGELES COUNTY ENGINEERING BLDG.

763095 CE #247—7-53

RETURN TO
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700 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.

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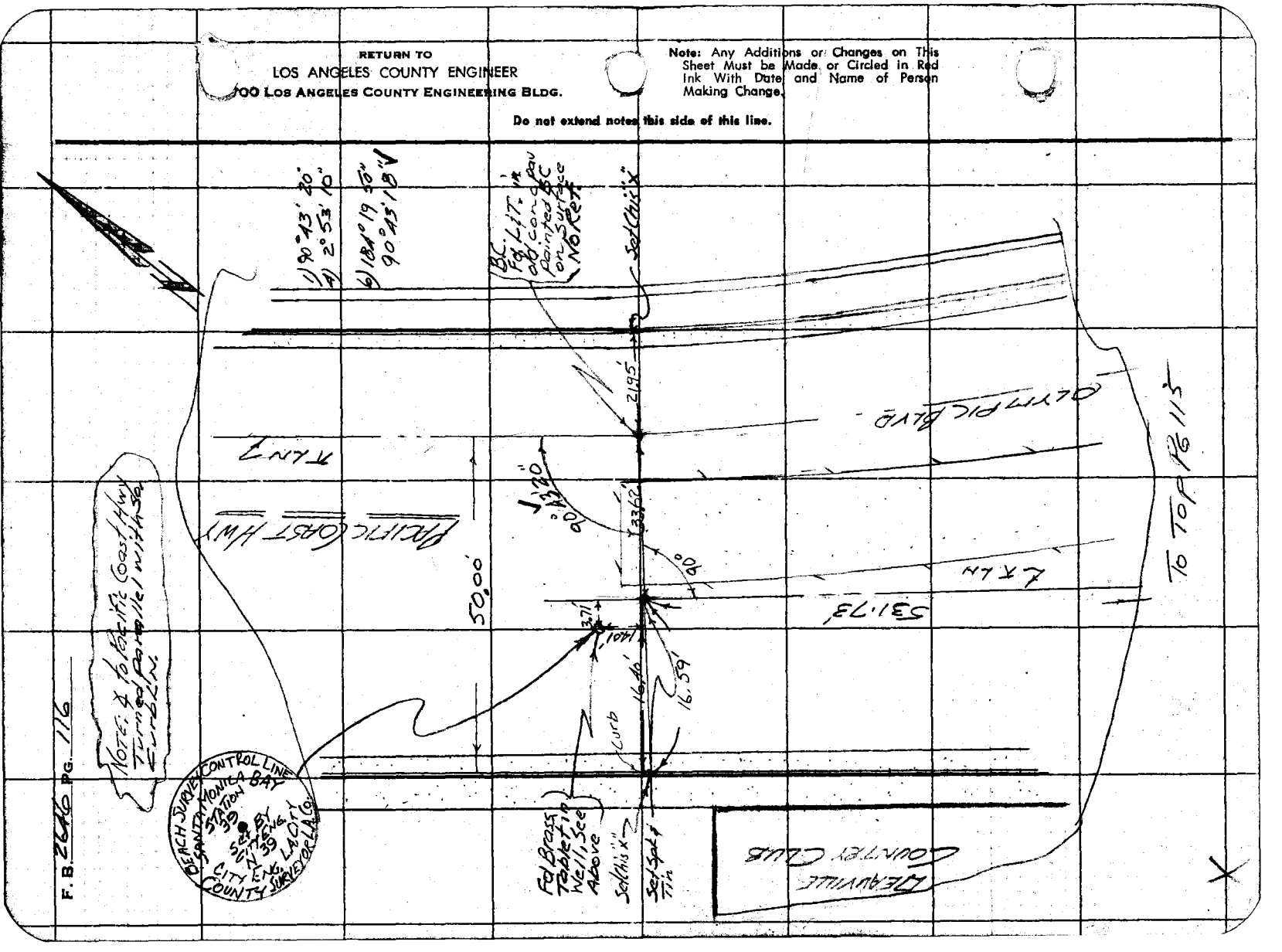

F.B. 2646 PG. 176

Notes Ck'd by	Survey of Wtr. Works Dist #29
Map No.	JN 5294.16 Tape Std °F
Office Work	Surveyed by Mankey Jr.
Checked	Notes EFM Jr Date 5-20-60
Date	Indexed

F. B 2646 Pg. 117

JN 5294.16

WATER WORKS DISTRICT #29

TOPOGRAPHY

on

BICKNELL AVE from NEILSON WAY to OCEAN AVE SO.

on

SO. OCEAN AVE from BICKNELL AVE to PICO BLVD.

on

APPIAN WAY from PICO BLVD to 500'± N. of COLORADO AVE

Mankey Jr.
Voge
Swann
L. Jones

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 ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

763093 CE #247—7-53

RETURN TO
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700 LOS ANGELES COUNTY ENGINEERING BLDG.

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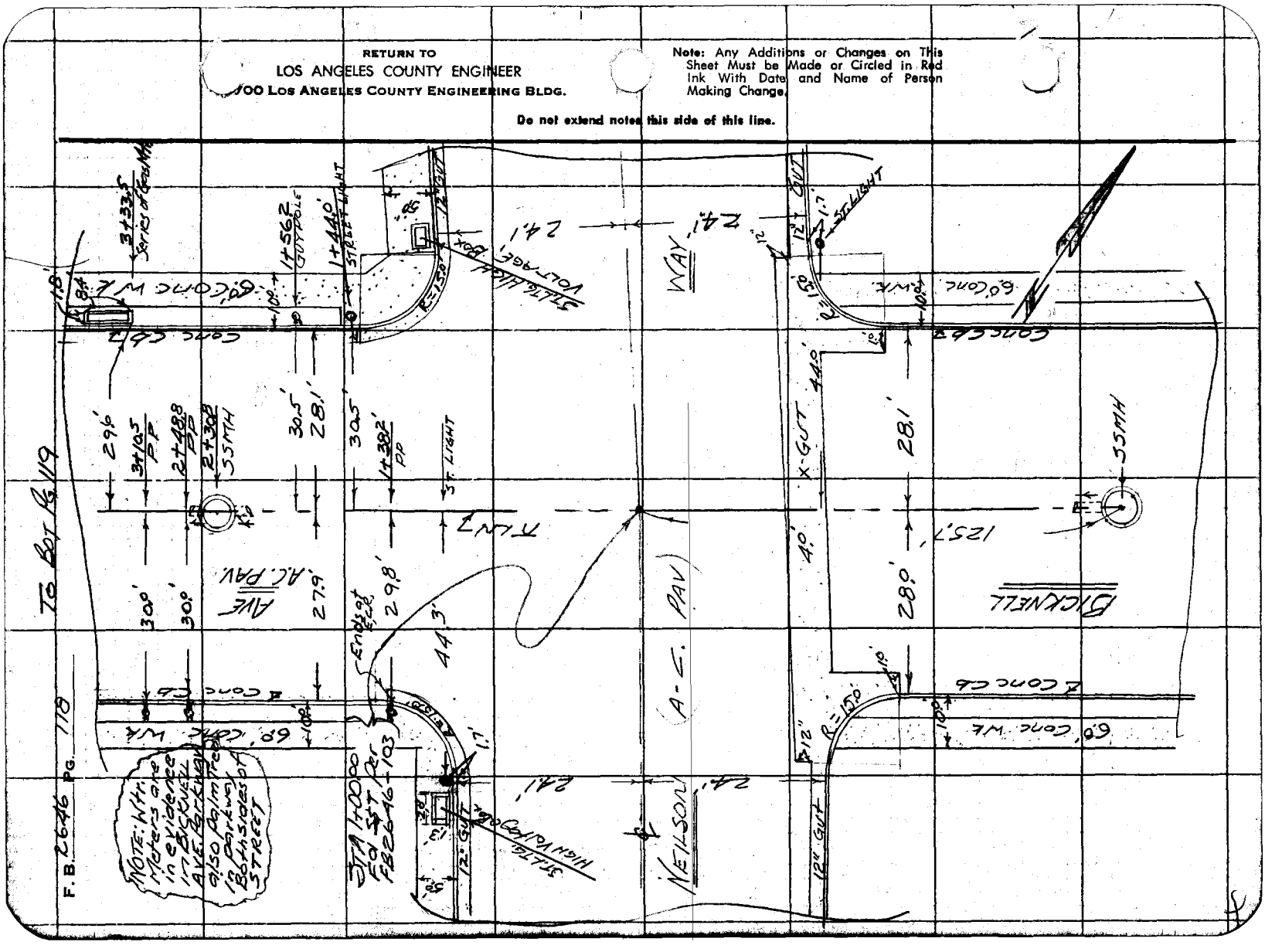
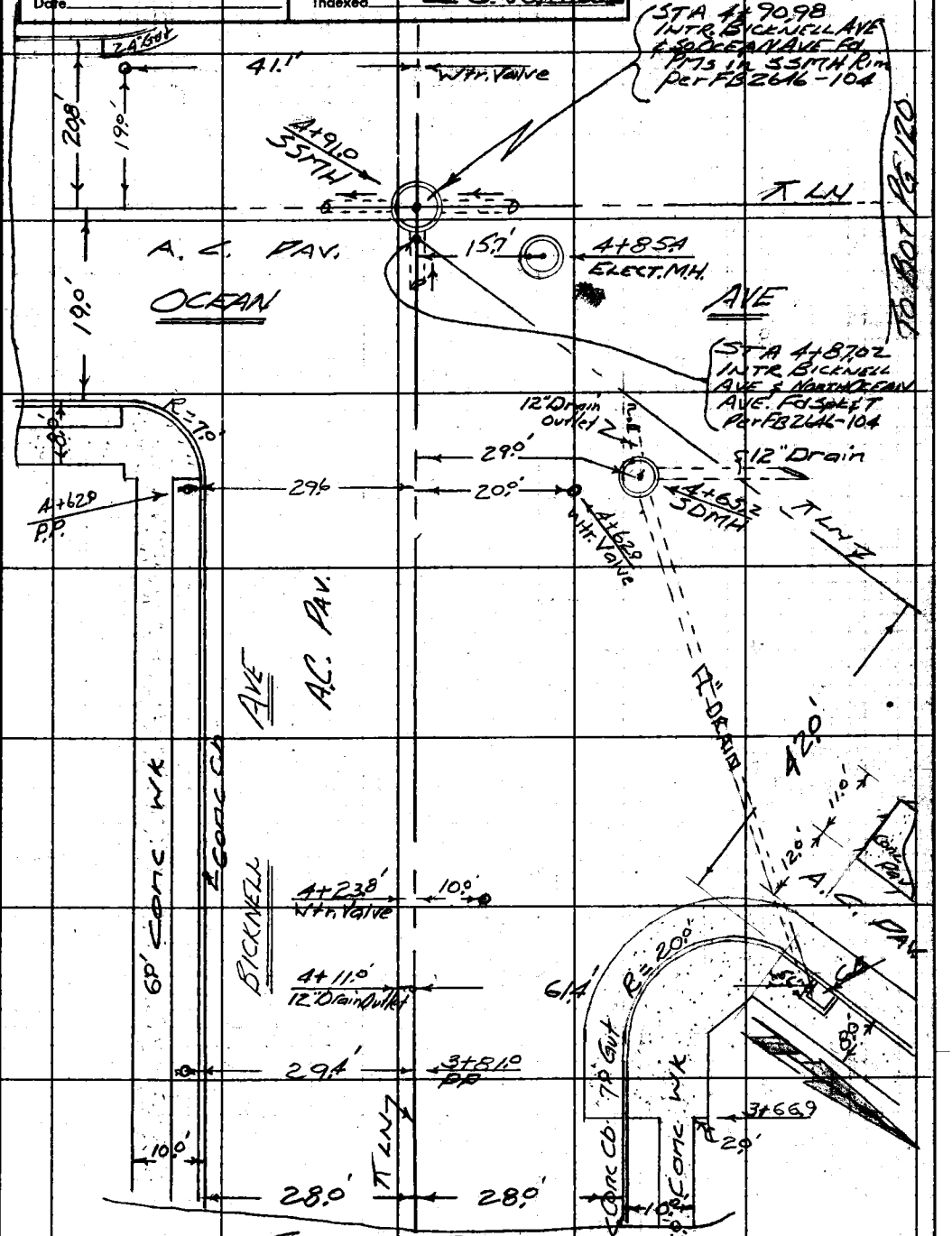
Do not extend notes this side of this line.



Notes Ck'd by		Survey of Wtr. Works Dist #29	F. B. 2646 Pg. 119
Map No.		JN 52916 Tape Std °F	
Office Work		Surveyed by Monkey Jr,	
Checked		Notes EFM Jr. Date 5-20-60	
Date		Indexed C. Johnson	



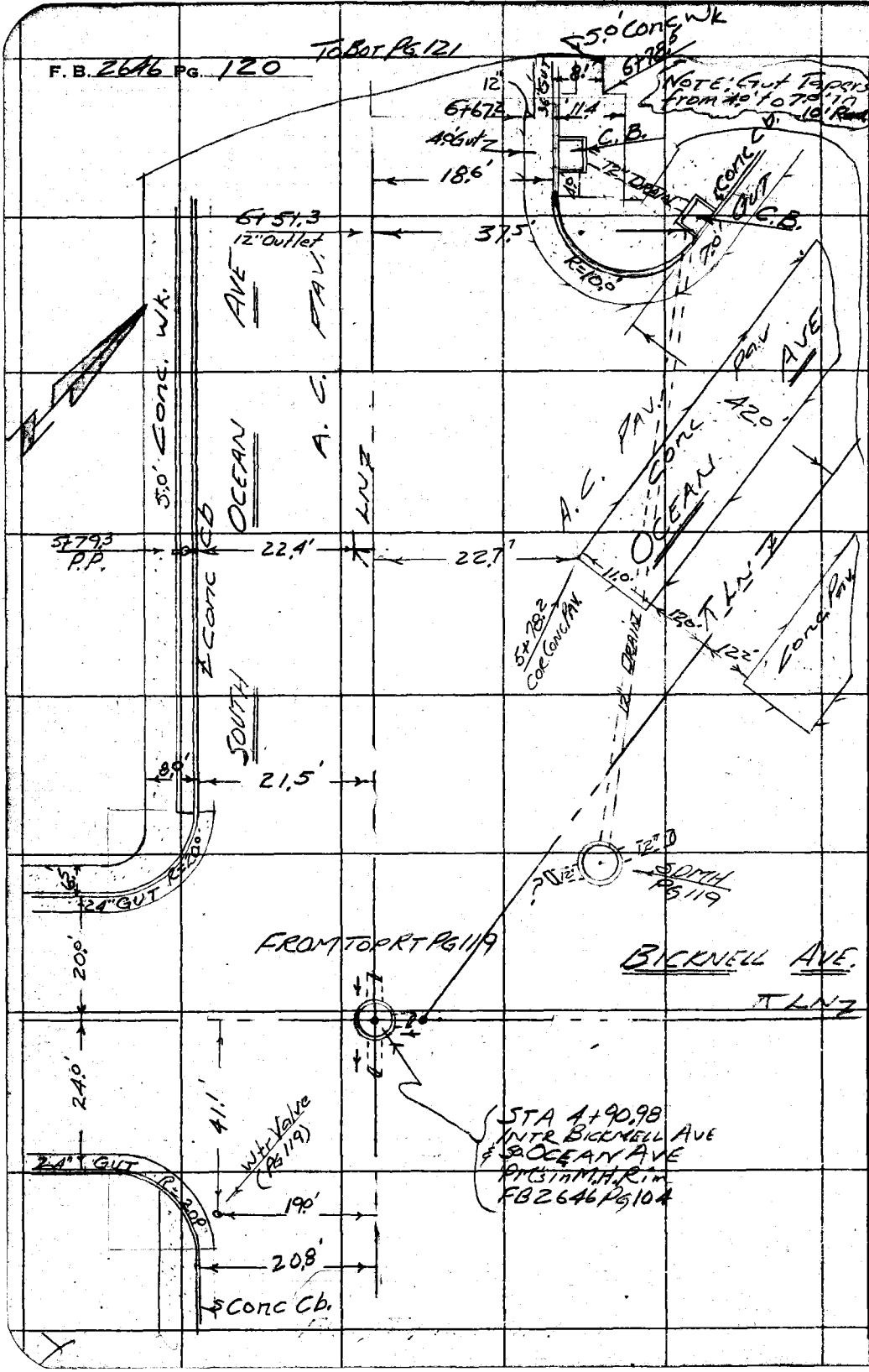
Note: Any Additions or Changes on This Sheet Must Be Made or Circled in Red Ink With Date and Name of Person Making Change.

Do not extend notes this side of this line.

RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

763098 CE #247—7-53

F. B. 2646 PG. 120



RETURN TO
LOS ANGELES COUNTY ENGINEER
100 LOS ANGELES COUNTY ENGINEERING BLDG.

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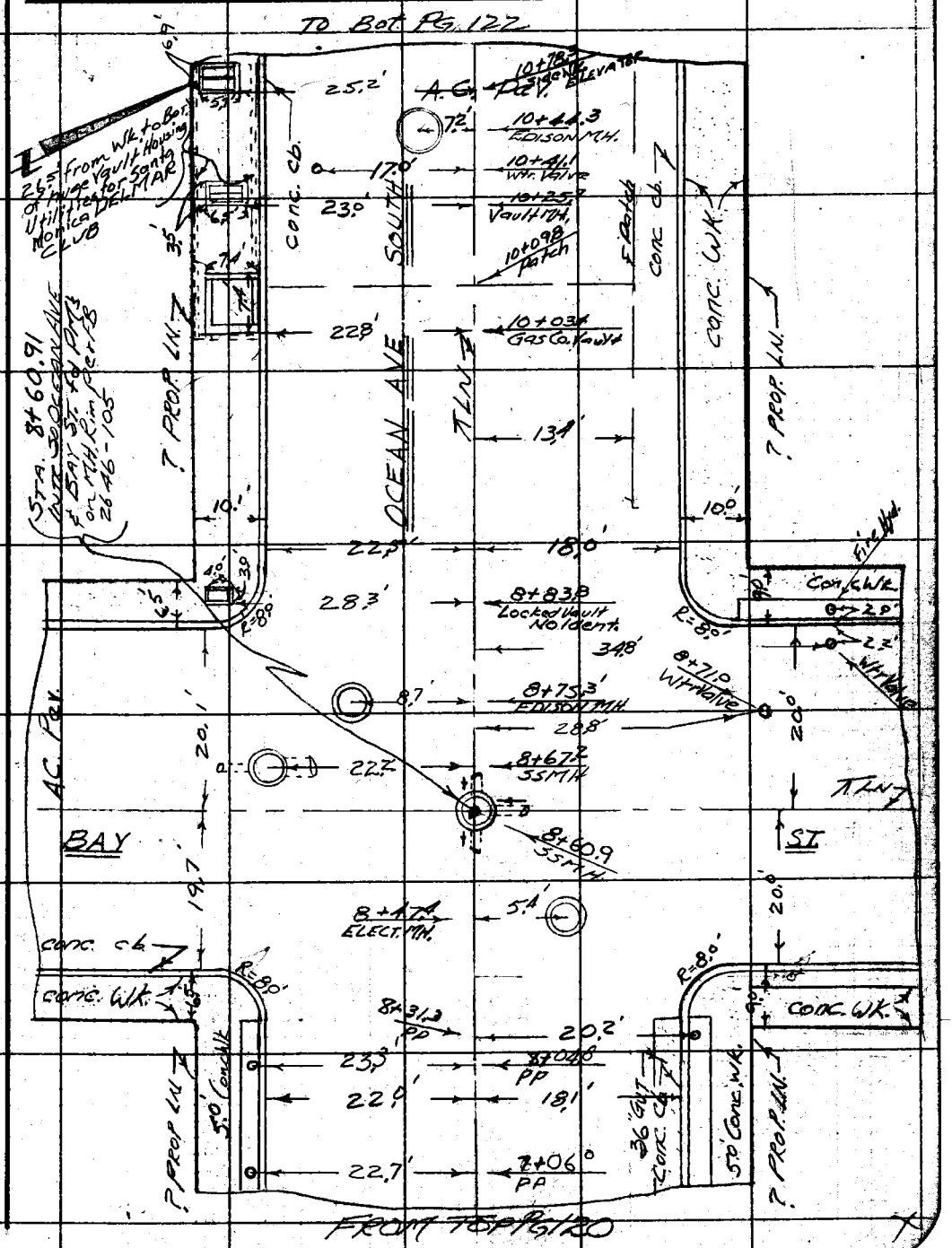
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Notes Ck'd by	Survey of Wtr. Works Dist #29
Map No.	JN 5294.16 Tape Std °F
Office Work	Surveyed by Mankey Jr.
Checked	Notes VOGE Date 5-20-60
Date	Indexed A. C. Johnson

F. B. 2646 PG. 121



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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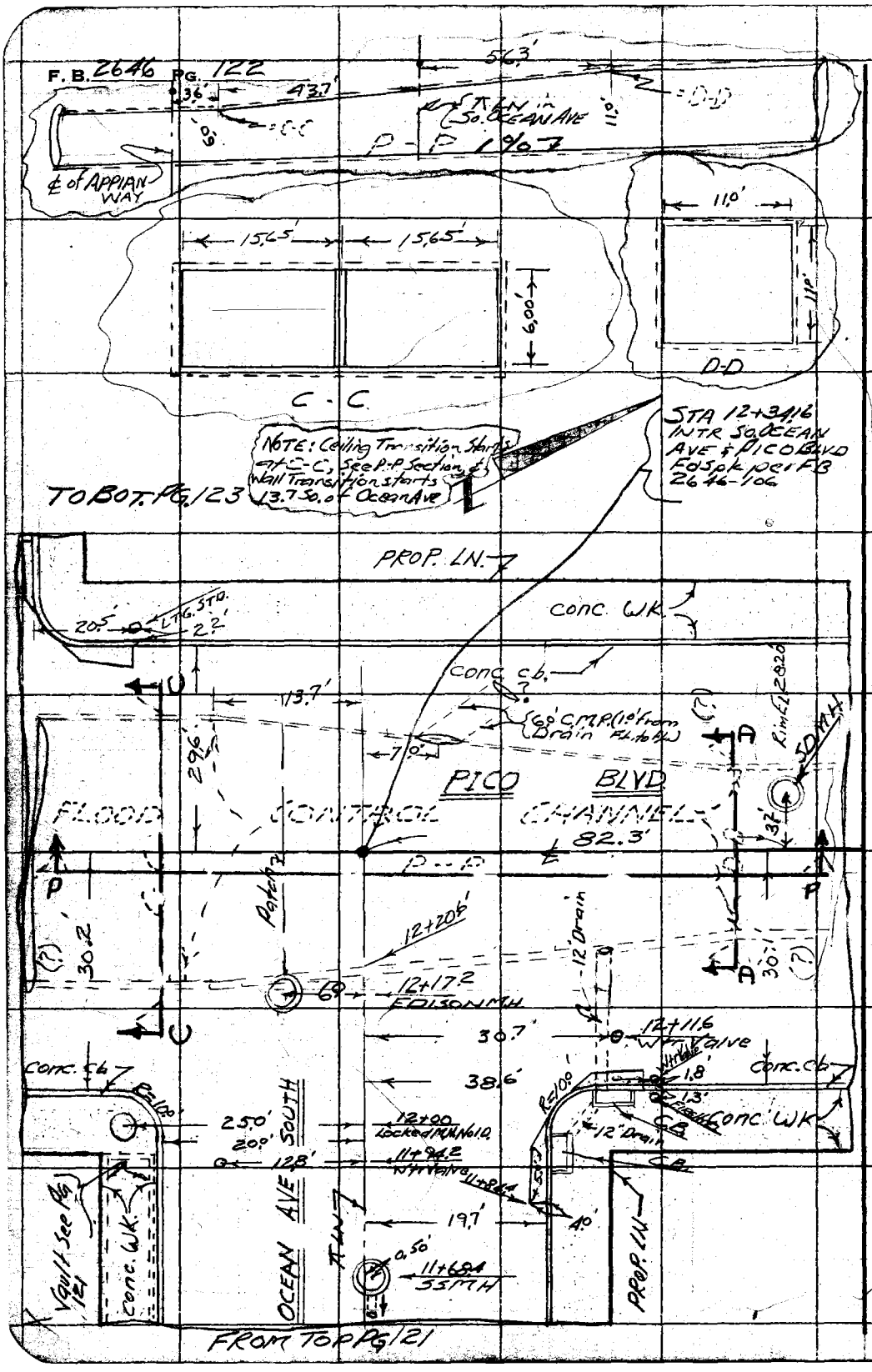
RETURN TO
LOS ANGELES COUNTY ENGINEER
400 LOS ANGELES COUNTY ENGINEERING BLDG.

763098 CK #247—7-53



RETURN TO
LOS ANGELES COUNTY ENGINEER
900 LOS ANGELES COUNTY ENGINEERING BLDG.

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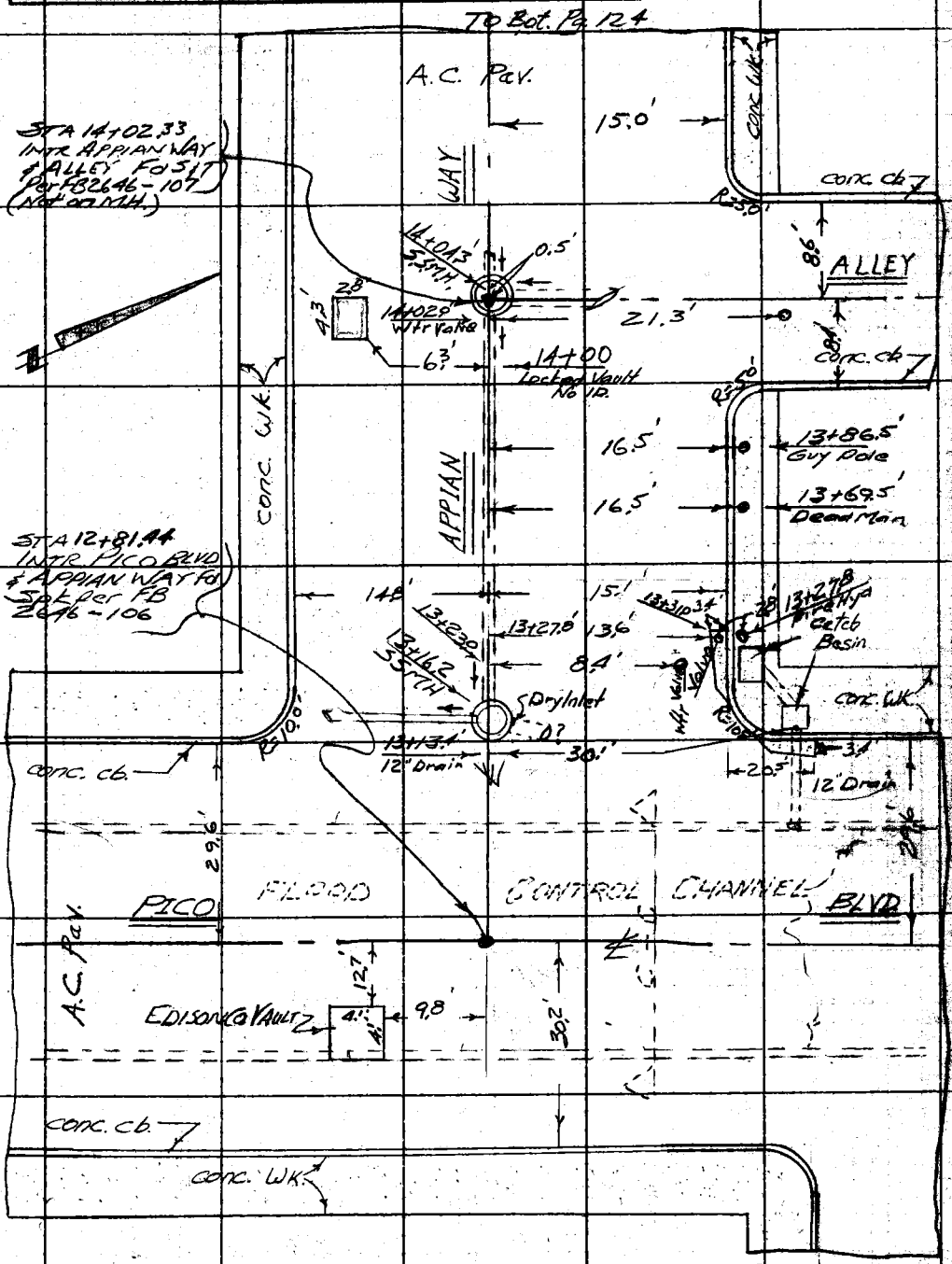
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Notes Ck'd by	Survey of Wtr. Works Dist #29	F. B. 2646 Pg. 123
Map No.	JN 5294.16 Tape Std °F	
Office Work	Surveyed by Mankey Jr.	
Checked	Notes Doge Date 5-23-60	
Date	Indexed A. C. Johnson	



From Top Pg. 122

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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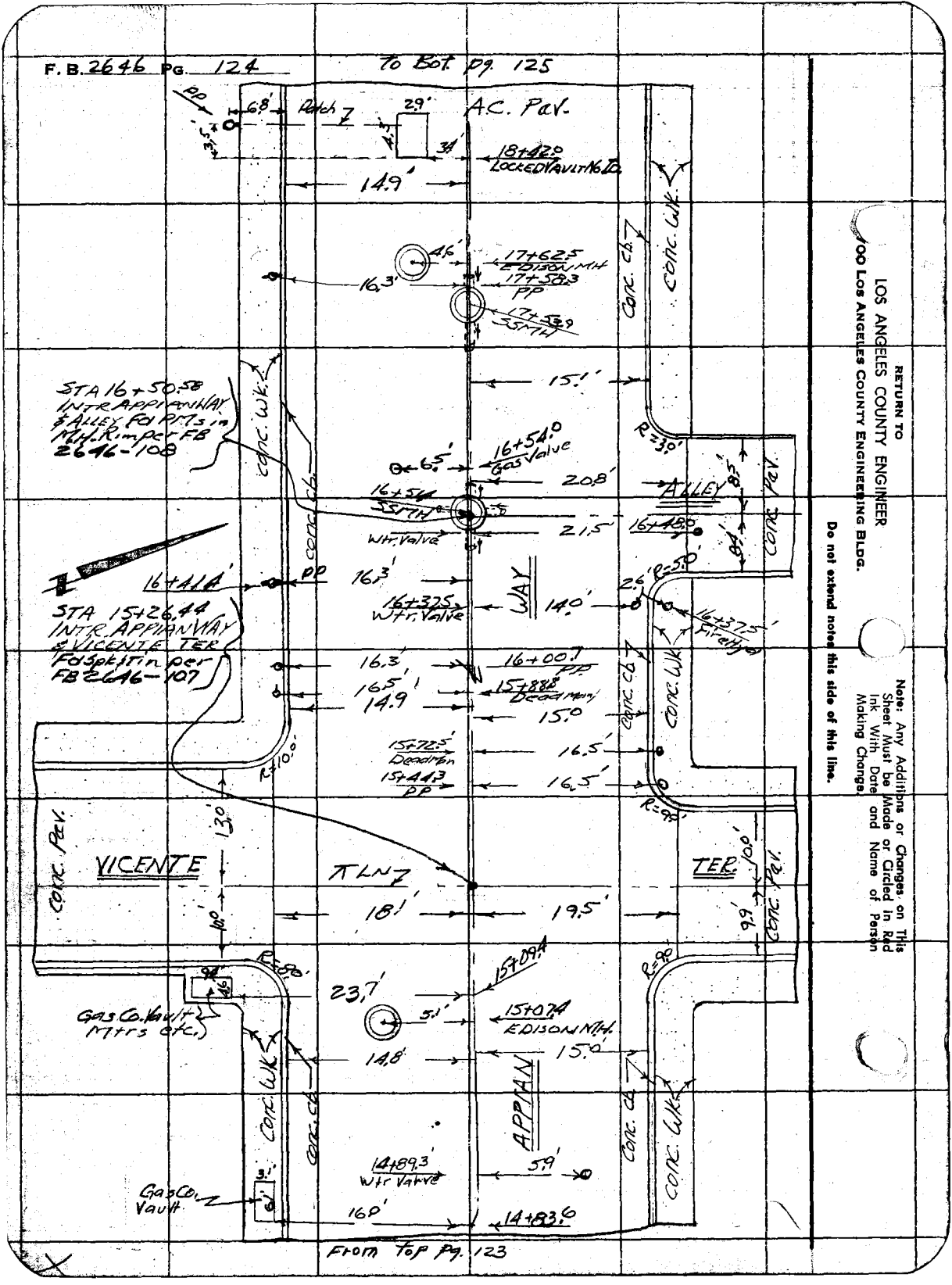
RETURN TO
LOS ANGELES COUNTY ENGINEER
100 LOS ANGELES COUNTY ENGINEERING BLDG.

768098 CE #247—7-59

F. B. 2646 PG. 124

To Bot. Pg. 125



RETURN TO
LOS ANGELES COUNTY ENGINEER
900 Los Angeles County Engineering Bldg.

Do not extend notes this side of this line.

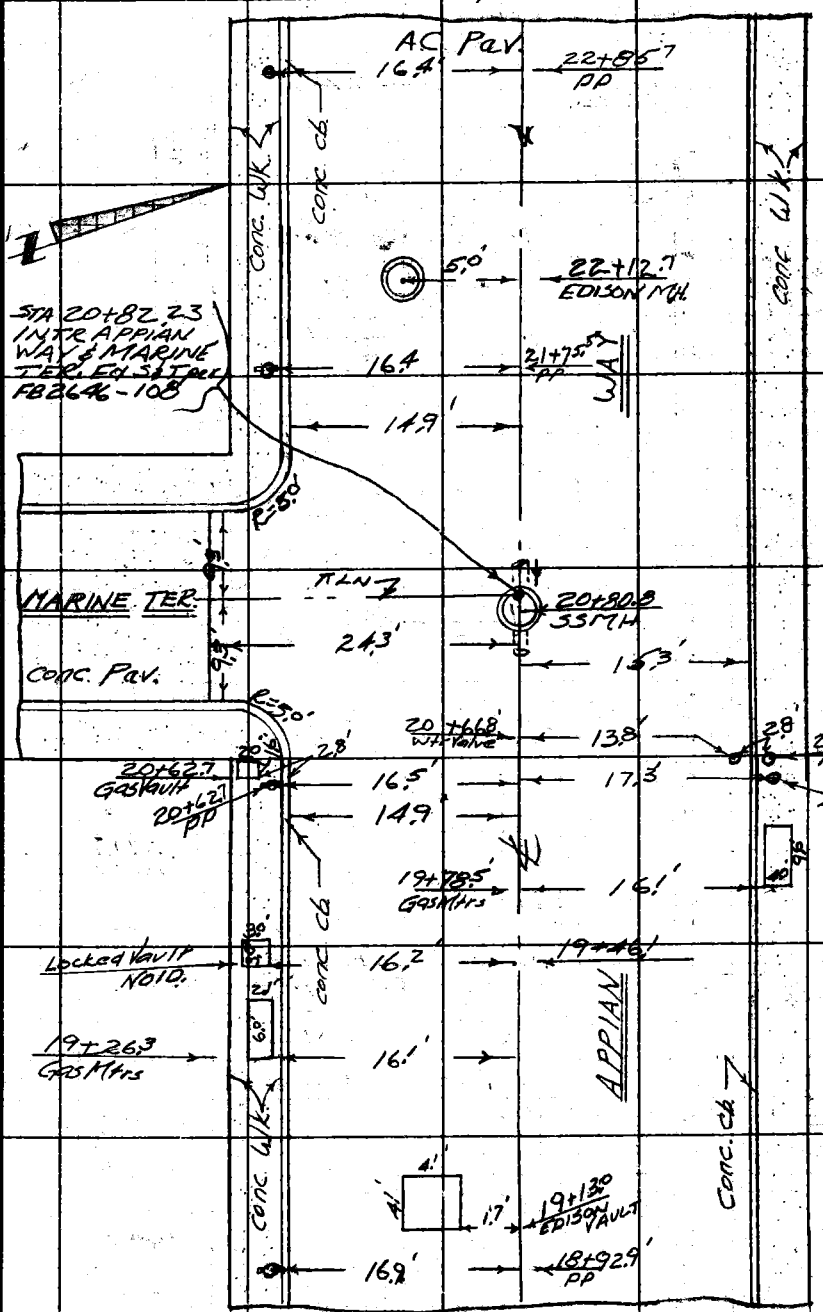
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

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

Survey of Water Works Dist #29
JN 5294.16 Tape Std °F
Surveyed by Mankey Jr.
Notes Vogt Date 5-24-60
Indexed C. Johnson

F. B. 2646 Pg. 125

To Bot. Pg. 126



From Top Pg. 124

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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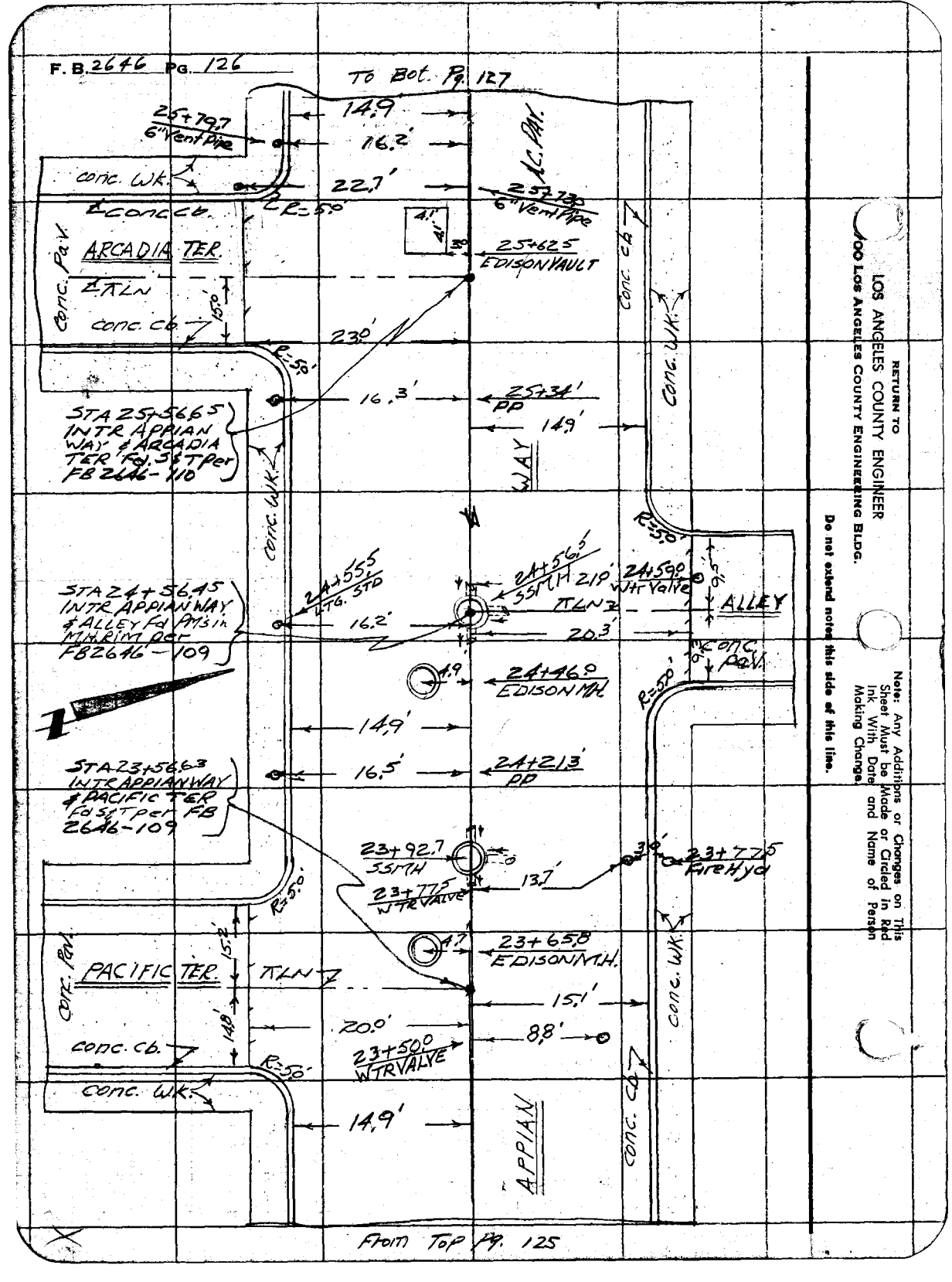
RETURN TO
LOS ANGELES COUNTY ENGINEER
900 LOS ANGELES COUNTY ENGINEERING BLDG.

763095 CE #247 7-57

F.B. 2646 Pg. 126

To Bot. Pg. 127



From Top Pg. 125

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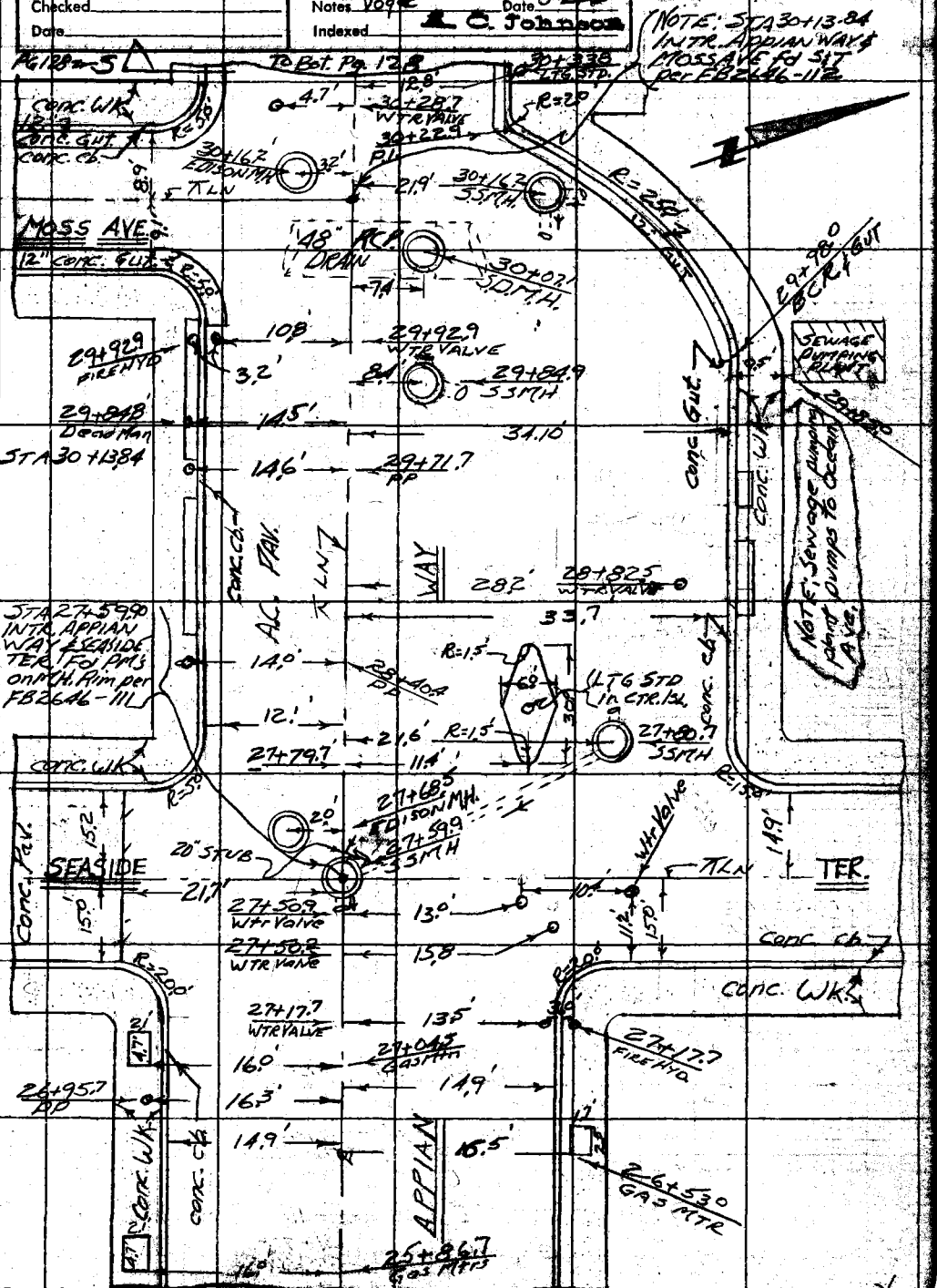
Notes Ck'd by	Survey of Wtr. Works Dist #29	F. B. 2646 Pg. 127
Map No.	JN 5294.16 Tape Std °F	
Office Work	Surveyed by Mankey Jr.	
Checked	Notes Vogue Date 5-2-60	
Date	Indexed A. C. Johnson	



From top Pg. 126

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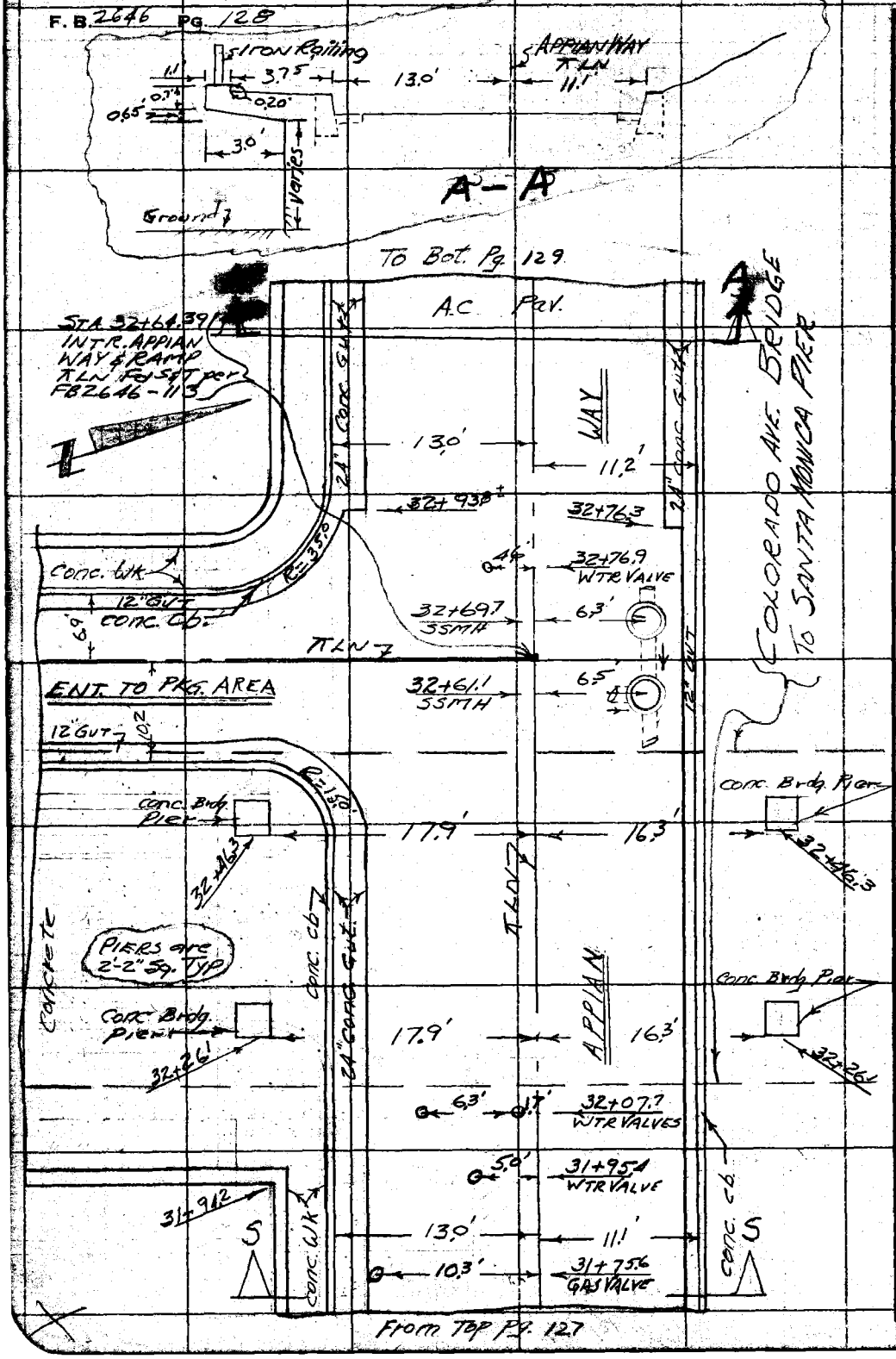
763095 CE #247—7-55

F. B. 2646 PG. 128



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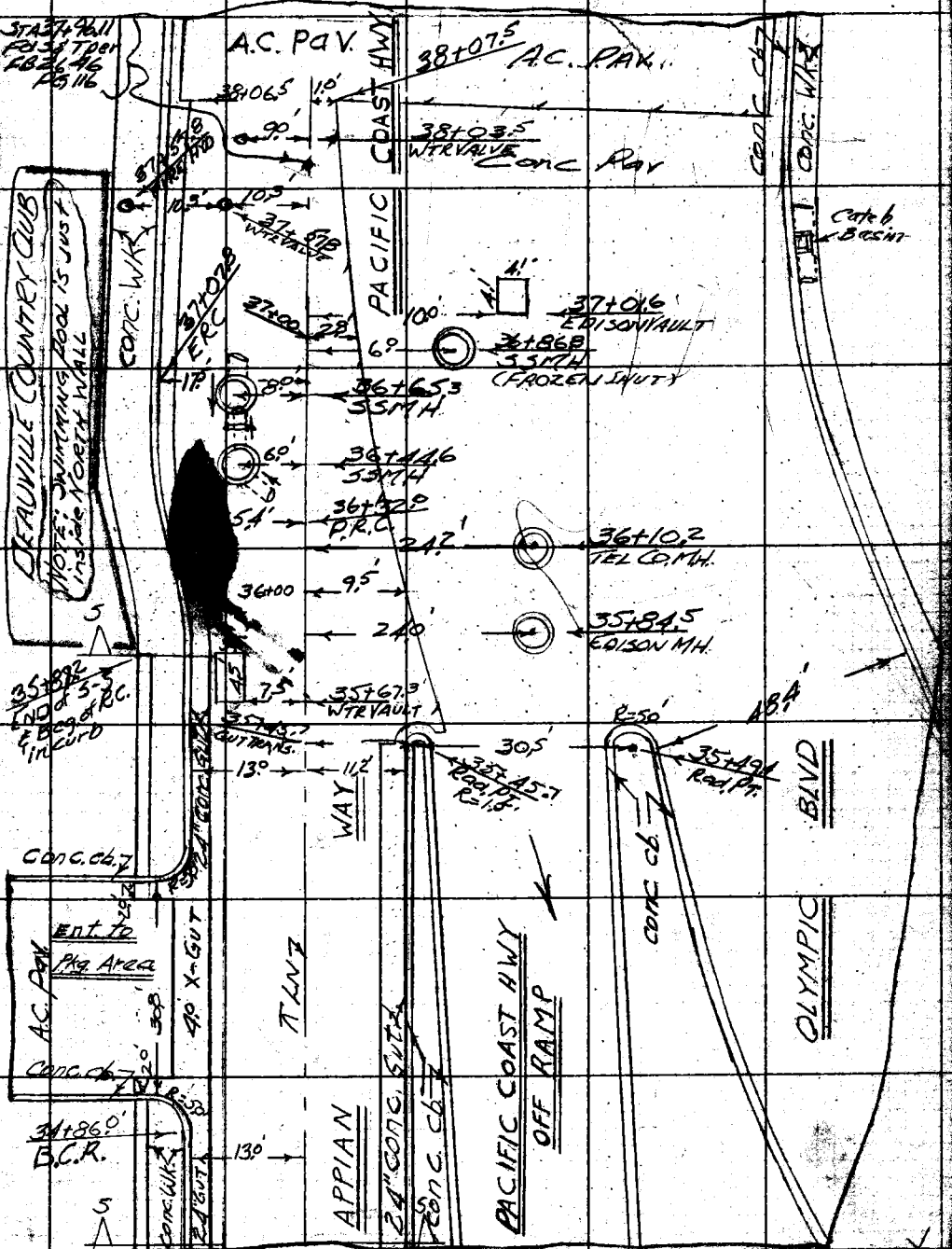
Notes Ck'd by	Survey of Wtr Works Dist. #29
Map No.	JN 5294.16 Tape Std °F
Office Work	Surveyed by Mankey Jr.
Checked	Notes Vogel Date 5-2[illegible]-60
Date	Indexed A. C. Johnson

F. B. 2646 PG. 129



From top of Pg. 128

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RETURN TO LOS ANGELES COUNTY ENGINEER 100 LOS ANGELES COUNTY ENGINEERING BLDG.

763093 CE #247—7-59

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F.B. 2646 PG. 130

F. B. 2646 PG. 131

Profile	Notes Red	Plotted	Job No. 5294.16	Division No.
No.	Date	Date	Survey of Wtr Works Dist #29	
X-Sec.	Notes Chkd.	Checked	Survey by Mankey Jr.	Notes ETM Jr. Date 5-25-60
No.	Date	Date	Map No.	Indexed K. C. Johnson Date 8-31-60

JN 5294.16

WATER WORKS DISTRICT #29

X-SECTIONS

on

BICKNELL AVE. from NEILSON WAY to OCEAN AVE.

on

SOUTH OCEAN AVE from BICKNELL AVE to PICO BLVD

on

APPIAN WAY from PICO BLVD to 500'± West of COLORADO AVE.

Mankey Jr.
Voge
Swann
L. Jones

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

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76L-298 S & E #307—1-56

76L-298 S & E #307—1-56

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F. B. 2646 Pg. 132 Job No 52-2116 Division No. Profile
Survey of W.F. Works Dist 229 No. X-Sec.
Survey by ETTEL Notes Monterey Plotted
Indexed C. Johnson Date Notes Red. Date
Date Notes Chkd. Date
Checked No.
Date

STATION	B. S.	H. I.	F. S.	ELEV.	
BM 48-17				23.06'	BM 48-17 EL 23.059' FB 1369-21
					Main St & Ocean Park Blvd, Santa Monica Branch Library
					USC&GS Disc, L-767 1945, set in W. end
T.P.				26.46'	of Conc Wall to Basement Steps, at S.W. COR. Bldg.
					91'E of E. curb Main St, & 85'W. of N. C/L Ocean Park
T.P.				31.38'	Blvd.
T.P.				33.67'	
					TBM EL.
TBM				32.50'	NEILSON WAY & HOLLISTER AVE S.W. COR. BT. Spk in Ctr Flush
					at W. end C.B. Ref.
T.P.				31.14	
T.P.				37.21	
					TBM EL. 40.44' FB 2646-132
T.B.M. (Set)				40.44	NEILSON WAY & BICKNELL AVE. S.E. COR
					Ctr in middle of C.B. Ref.
					BICKNELL AVE
					Lt & E. TLN in Bicknell Rt & W
SSMH		125.7' N. of INTR		Rim EL 41.96'	BICKNELL AVE & NEILSON WAY
					6.45 Rim to FL of 8" V.C.P.
		INVERT on 8" V.C.P. Outlet to So.		35.51	
0+00				41.7'	TLN
"				41.40'	28' Gut
"				42.02'	" C.B.
"				40.30'	28.0' Gut
"				40.71'	" C.B.

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.	BICKNELL AVE LT & E.	BICKNELL AVE in Bicknell ⊼LN RT & W.
N end	NWCR	Bicknell Ave & Neilson Wy.		41.69'		28' cb
" "	" "	"	" "	41.05'		" Gut
W "	" "	" "	" "	41.47'		43' cb
" "	" "	" "	" "	40.91'		" Gut
N "	NE "	" "	" "	40.69'	28' cb	
" "	" "	" "	" "	40.10'	" Gut	
E "	" "	" "	" "	40.45'	43' cb	
" "	" "	" "	" "	39.85'	" Gut	
0+77.7				40.43'		⊼LN X-Gut
1+00 /NTR		" "	" "	40.9'		⊼LN
"				41.3'		40' pav
"				40.5'	40' pav	
W. end	S.W.C.R.	" "	" "	41.50'		43' cb
" "	" "	" "	" "	40.94'		" Gut
S "	" "	" "	" "	41.27'		28' cb.
" "	" "	" "	" "	40.67'		" Gut
E "	SE "	" "	" "	40.65'	43' cb	
" "	" "	" "	" "	40.05'	" Gut	
S "	" "	" "	" "	40.11'	28' cb	
" "	" "	" "	" "	39.47'	" Gut	

Profile Notes Red. ____ Plotted ____ Job No. 5294.16 Division No. ____ F. B. 2646 Pg. 133
No. X-Sec. ____ Date ____ Date ____ Survey of Wtr. Works Dist #29
No. ____ Notes Chkd. ____ Checked ____ Survey by Mankell Notes E Trab Date 5-26-60
Date ____ Date ____ Map No. ____ Indexed C. Johnson Date ____

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.	BICKNELL AVE LT & E.	⊼LN Bicknell	RT & N.
2+00				40.0'		⊼LN	
"				40.17'			28' Gut
"				40.75'			" Cb
"				38.67'	28' Gut		
"				39.15'	" Cb		
2+30.8	SSMH			Rim EL 39.85		⊼LN	
	INVERT on 8" V.C.P. Inlet on North			32.96'	6.89' Rim to f.L. of 8" V.C.P. Inlet		
	" " " " Outlet to South			32.89'	6.96' " " " " " " Outlet		
T.P.				38.96'			
3+00				39.1'		⊼LN	
"				38.97'			28' Gut
"				39.50'			" Cb
"				37.75'	28' Gut.		
"				38.35'	" Cb.		
	N end NW CR. Bicknell Ave & Ocean Ave			38.85'			28' Cb
	" " " " " " " "			38.19'			" Gut
	NW " " " " " " "			38.72'			Cb
	" " " " " " " "			38.11'			Gut

F. B. 2646 Pg. 134
Job No. 5294.16 Division No. Notes Red. Plotted Profile
Survey of Wtr. Works Dist #29 Date Date No. X-Sec.
Survey by ETM Jr. Notes Mankey Jr. Notes Chkd. Checked No.
Index C. Johnson Date Date Date

76L-298 S & E #307—1-56

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37.84

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STATION	B. S.	H. I.	F. S.	ELEV.	BICKNELL AVE LT & E.	BICKNELL LN RT & W
4+00				38.4'		
"				37.01'	28' Gut	
"				37.63'	" Cb	
4+11.0	Cb. at Drain			38.88'		61.4' Cb
	INVERT on 12" Drain Outlet			35.33	3.55 Curb to flow LN of 12" Drain	
T.B.M.				37.10	TBM EL 37.10 FB 2646-135 BICKNELL AVE & OCEAN AVE NE. COR Spk in L, 3.0' E. Cb. Ret.	
	N end NE CR. BICKNELL AVE & OCEAN AVE			37.15	28' Cb	
	" " " " " " "			36.46	" Gut	
	E " " " " " "			37.07	35' Cb.	
	" " " " " " "			36.32' Rim EL	" Gut	
4+65.2	SDMH			37.88		29.0' Rim
	INVERT at CTR. of SDMH.			32.07	5.81' Rim to Mean flow LN CTR MH.	
	2-12" Inlets on W & N.					
	1-12" Outlet on South				(Adjacent MH to South not in evidence)	
4+87.02	INTR BICKNELL & OCEAN			36.7'		LN
4+90.98	" " & SO. " Ave			36.5'		LN
"				37.2'		40' pav.
"				35.9'	40' pav	

Profile Notes Red. Plotted Job No. 5294.16 Division No.
No. Date Date Survey of Wtr Works DIST #29
X-Sec. Notes Chkd. Checked Survey by Mankey & Notes ETMH Date 5-26-60
No. Date Date Map No. Indexed C. Johnson Date

F. B. 2646 Pg. 135

76L-298 S & E #307—1-56

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F. B. 2646 Pg. 136 Job No 5291.16 Division No. Notes Red. Plotted Profile
Survey of Utility Works Dist #29 Date No. X-Sec.
Survey by ETM/ Notes ETM Date Notes Chkd. Checked No.
Indexed C. Johnson Date Date Date

STATION	B. S.	H. I.	F. S.	ELEV.	BICKNELL AVE
					LT & E. ℄ Bicknell LN RT & W.
4+91.0'	SSMH			Rim 36.55'	
	INVERT on 8" VCP Inlet to No,			19.58'	16.97' Rim to flowline of 8" V.C.P.
	" 21" " " " W,			19.00'	17.55' " " " " 21" V.C.P.
	" " " Outlet to E,			19.00'	17.55 " " " " " "
	W end SWCR Bicknell & Ocean			36.28	40'cb
	" " " " "			35.89'	" Gut
	S " " " "			32.58'	20'cb
	" " " " "			31.98'	" Gut
	E " SE " "			34.68'	44'cb
	" " " " "			34.12'	" Gut
	S " " " "			31.95'	24'cb
	" " " " "			31.35'	" Gut
					SO. OCEAN AVE
					LT & So. ℄ So. Ocean RT & No.
4+90.98		INTR So. Ocean & Bicknell		36.5'	
"				34.9'	20' pav
"				32.7'	40' pav

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.	SO. OCEAN AVE LT & SO.	⊼ LN	RT & NO.
5+78.2				38.50'			22? Cor Conc Pav
6+00				38.0'		⊼ LN	
"				38.6'			20' pav
"				39.05'			40' Conc pav
"				37.01'	21.5' Gut		
"				37.73'	" Cb		
6 — 51.3'	Ck. at Drain			40.02'			37' Cb.
	INVERT 12" Drain Outlet			36.23'	3.79' Curb to flow Ln 12" Drain		" F.L.
	N.W. end N.W. CR. So. Ocean Ave & Ocean Ave			39.89'	(See Pg 120)		Cb
"	" " "			39.20'		"	Gut
W	" " " " " "			39.20'		"	
"	" " " " " "			38.51'		"	
T.P.				40.17'			
7+00				38.9'		⊼	
"				38.90'			18.4' Gut
"				39.54'			" Cb
"				38.00'	21.9' Gut.		
"				38.59'	" Cb.		
8+00				39.6'		⊼	

Profile Notes Red. ____ Plotted ____ Job No. 5246 Division No. ____ F. B. 2646 Pg. 137
No. ____ Date ____ Date ____ Survey of Wtr Works Dist #29
X-Sec. Notes Chkd. ____ Checked ____ Survey by Mankey Notes E Tml Date 5-26-60
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____
A. C. Johnson

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.	SO. OCEAN AVE. LT & SO.	KLN	RT & NO.
8+00				39.71'			18' Gut
"				40.35'			" Cb.
"				38.51'	22.0' Gut		
"				39.09'	" Cb		
E end NEAR So Ocean & Bay ST				40.67'			18' Cb
" " " " " " "				40.07'			" Gut
N " " " " " "				40.83'			26' Cb
" " " " " " "				40.35'			" Gut
E " SE " " " " "				38.64'	22.0' Cb		
" " " " " " "				38.13'	" Gut		
S " " " " " "				36.80'	30.0' Cb		
" " " " " " "				36.46'	" Gut		
8+60.9	SSMH			Rim El 39.36			
Flooded { INVERT on 8" V.C.P. Drop Inlet on NO.				32.40'	6.96' Rim to flow Ln of 8" V.C.P.		
" " 20" " Inlet on W.				20.05'	19.31' " " " " " 20" "		
" " 21" " Outlet to E.				19.75'	19.61' " " " " " 21" V.C.P.		
8+60.91	INTR So. Ocean & Bay ST.			39.4'			
"				40.5'			30' pav
"				38.1'	20' pav		
"				35.8'	40' pav		

F. B. 2646 Pg. 138
Job No. 5204.16 Division No. Notes Red. Plotted Profile
Survey of Wtr Works Dist #29 Date Date No.
Survey by ETMW Notes Mankeyke Notes Chkd. Checked X-Sec.
Indexed C. Johnson Date Date Date No.

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.	SO. OCEAN AVE LT. & SO.	KLN. RT & NO
				Rim EL		
8+67.2'	SSMH			37.46'	22.2' Rim	
Dry {	INVERT on 8" VCP Inlet on So.			31.31'	6.15 Rim to flow line of 8" VCP	
	" " 18" " Outlet " No.			27.56'	9.90' " " " " " 18" "	
	N. end NWCR. So. OCEAN & BAY ST.			40.36'		26' Cb
	" " " " " " "			39.88'		" Gut
	W " " " " " "			40.15'		18' Cb
	" " " " " " "			39.50'		" Gut
	S. " SW " " " "			36.64'	30.5' Cb	
	" " " " " " "			36.22'	" Gut	
	W " " " " " "			36.97'	22.5' Cb	
	" " " " " " "			36.50'	" Gut	
					TBM EL 39.58' FB 2646-139	
TBM				39.58	So. Ocean Ave & Bay ST N.W. Cor. Spk. in 4"x4", 10' W. of CR & 1.5' N. of Cb.	
9+00				38.1'		
"				38.68'		18' Gut
"				39.22'		18' Cb
"				36.24'	22.5' Gut	
"				36.71'	" Cb	
10+00				32.7'		
"				32.58'		18.7' Gut
"				33.08'		18.7' Cb

Profile Notes Red. ____ Plotted ____ Job No. 5294.16 Division No. ____ F. B. 2646 Pg. 139
No. ____ Date ____ Date ____ Survey of Wtr Works Dist #29
X-Sec. Notes Chkd. ____ Checked ____ Survey by Mankey Notes Ftr Date 5-26-60
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.	SO. OCEAN AVE	
					LT & SO.	KLN RT. & NO.
10+00				31.67'	21.7' Gut	
"				32.08'	" Cb	
T.P.				31.58'		
11+00				28.0'		
"				27.95'		19.3' Gut
"				28.48'		" Cb
"				26.90'	20.9' Gut	
"				27.27'	" Cb	
11+684'	SSMH			Rim 24.72'		0.5' Rim
INVERT on 20" VCP Outlet to E. (Flusher)				20.52'	4.20 Rim to flow Lin of 20" VCP.	
					TBM EL 23.43'	FB 2646-140
T.B.M.				23.43'	SO Ocean Ave & Pico Blvd NE Cor. Bt. Spk in pav at cb in Mid of NE CR. in Gut	
E end NE CR. So Ocean & Pico Blvd				24.09'		19.7' Cb.
" "	" "	" "	" "	23.59'		" Gut.
N "	" "	" "	" "	23.90'		29.7' Cb.
" "	" "	" "	" "	23.41'		" Gut.
E "	SE "	" "	" "	22.63'	20' Cb	
" "	" "	" "	" "	22.00'	" Gut	
S "	" "	" "	" "	21.88'	30' Cb.	
" "	" "	" "	" "	21.27'	" Gut.	

F. B. 2646 Pg. 140
Job No. 5294.16 Division No. Notes Red. Plotted Profile
Survey of Wtr. Works Dist #29 Date Date No. X-Sec.
Survey by E. T. Mill Notes Mankey Jr Notes Chkd. Checked No.
Indexed E. O. Johnson Date Date Date

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.	So. Ocean Ave. LT & So	⊼ LN	RT. & No.
12+34.16	INTR	So. Ocean & Pico Blvd		22.8'		⊼	
"				24.4'			30' pav
"				21.5'	30 pav		
SDMH	82.3' N. of So. Ocean Ave. & 3.7' West ℄ Pico			Rim			
"				28.20'	20.0' Rim to Flow Line (GRADE on F.L. = 1% drops 3.0' in 300')		
INVERT of DRAIN at SDMH				8.20'	(See Pg 122 for drain Ceiling Transition)		
West Cb LN Pico Blvd on So. Ocean Prod				21.89'		⊼ prod Gut	
" " " " " " " "				22.60'		" Cb	
					APPIAN WAY		
					LT & So	℄	RT & No.
East Cb LN Pico on Appian Way Prod				21.00'		℄ Prod Cb	
" " " " " " " "				20.34'		" " Gut	
12+81.44	Intr Appian Way & Pico			20.9'		℄	
"				22.1'			30' pav
"				19.2'	30 pav		
13+13.4	Cb. at Drain			21.60'			30.0' Cb
" INVERT on 12" Drain Outlet				17.27'	4.33' Cb to F.L. of 12" Drain (See Pg 123)		

Profile Notes Red. ____ Plotted ____ Job No. 5294.16 Division No. ____ F. B. 2646 Pg. 141
No. ____ Date ____ Date ____ Survey of Ultr Works Dist #29
X-Sec. Notes Chkd. ____ Checked ____ Survey by Mankey Notes ETM Vs. Date 5-26-60
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Johnson

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.	APPIAN WAY LT & SO	℄	RT & NO
N end NWCR APPIAN Way & PICO Blvd				21.35'			25.1' cb
" " " " " " "				20.87'			" Gut
W " " " " " "				20.98'			15' cb
" " " " " " "				20.39'			" Gut
S " SW " " " "				19.54'	24.8' cb		
" " " " " " "				18.83'	" Gut		
W " " " " " "				19.78'	14.8' cb		
" " " " " " "				19.40'	" Gut		
13+16.2 SSMH				Rim 20.40'		℄	
DRY INVERT on 18" V.C.P. Inlet on No.				17.65'	2.75' Rim to flow LN		18" V.C.P.
" " 20" " " " W.				15.45'	4.95' " " " "		20" "
" " " " Outlet " So.				15.43'	4.97 " " " "		" "
E end NECR Appian Way & Alley				21.03'			15.0' cb
" " " " " " "				20.48'			" Gut
N. " " " " " "				21.07'			20' cb
" " " " " " "				20.67'			" Gut
14+02.33 INTR " " "				20.6'		℄	
"				20.6'			15' pav
"				22.1'			35' pav
"				19.74'	14.8' Gut		
"				20.15'	" cb		

F. B. 2646 Pg. 142
Job No. 520416 Division No. Notes Red. Plotted Profile
Survey of Wtr Works Dist #29 Date Date No. X-Sec.
Survey by E. T. McKinney Notes Chkd. Checked
Indexed C. J. Date Date No.

76L-298 S & E #307—1-56

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Profile Notes Red. Plotted Job No. 3294 Division No.
No. X-Sec. Date Date Survey of WATER WORKS DIST #29
No. Notes Chkd. Checked Survey by Monk & Wood Notes by Date 5-26-60
Date Date Map No. Inked by

F. B. 2646 Pg. 143

STATION	B. S.	H. I.	F. S.	ELEV.	APPIAN WAY	
					LT ℄ So. ℄	RT ℄ No.
14+04.3	SSMH			Rim 20.66'		0.5' Rim
	INVERT on 6" V.C.P. Inlet from N.			16.43'	4.23' Rim to flow line of 6" V.C.P.	
	" " 20" " " " W			15.79'	4.87 " " " " "	" 20" "
	" " " " Outlet " E			15.77'	4.89' " " " " "	" " "
	N. end NWCR APPIAN WAY & Alley			21.03'		20' cb
	" " " " " "			20.68'		" Gut
	W " " " " " "			20.97'		15' cb
	" " " " " "			20.52'		" Gut
	E " NE " " " VICENTE			21.37'		15' cb
	" " " " " "			20.87'		" Gut
	N " " " " " "			21.67'		24' cb
	" " " " " "			21.11'		" Gut
	E " SE " " " "			20.50'	14.8' cb	
	" " " " " "			20.14'	" Gut	
	S " " " " " "			19.85'	22.8' cb	
	" " " " " "			19.46'	" Gut	
TBM				21.37'	TBM El. 21.37' FB 2646-143	
15+26.44	INVR	"	" VICENTE	21.0'	APPIAN WAY & VICENTE TER. N.E. COR LT 33' W of E. end Cb. Ref.	
"				21.0'	℄	15' pav
"				21.7'		30' pav

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.	APPIAN WAY LT & So.	℄	RT & No.
15+26.44				20.4'	15' pav		
"				19.5'	30' pav		
N. end NWCR APPIAN WAY & Vicente				21.46'			24' cb
" " " " " "				21.07'			" Gut
W " " " " " "				21.58'	15' cb		
" " " " " " "				21.03'	" Gut		
S " SW " " " "				20.16'	24.9' cb		
" " " " " " "				19.45'	" Gut		
W " " " " " "				20.70'	14.9 cb		
" " " " " " "				20.25'	" Gut		
16+00				21.4'		℄	
"				21.28'			15° Gut
"				21.71'			" Cb
"				20.43'	14.9' Gut		
"				20.92'	" Cb		
E end NECR APPIAN & Alley				21.82'			15° Cb
" " " " " "				21.42'			" Gut
N " " " " "				21.91'			20' cb
" " " " " "				21.62'			" Gut

F. B. 2646 Pg. 144 Job No. 5294.16 Division No. Dist #29 Notes Red Plotted Profile
Survey of Wtr. Works Dist #29 Date Date No. X-Sec.
Survey by Ernst Notes Mankey Jr. Notes Chkd Checked
Indexed A. C. Johnson Date Date Date No.

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.	APPIAN WAY LT & SO. ℄	RT & NO.
16+50.58	INTR	APPIAN WAY & ALLEY		21.6'	℄	
"				21.5'		15' pav
"				22.7'		30' pav.
"				20.60'	14.9' Gut	
"				21.01'	" Cb	
16+51.4'	SSMH			Rim 21.62'	℄ Rim	
Dry—	INVERT on 6' Inlet on South			18.26'	3.36' Rim to F.L.	of 6" U.C.P.
"	" " " "		No.	18.12'	3.50 " " "	" " "
"	" 20" " "		W.	17.16'	4.46 " " "	" 20" "
"	" " Outlet to E.			16.98'	4.64' " " "	" " "
	N. end NWCR Appian & Alley			22.08'		18' Cb
"	" " "		"	21.61'		" Gut
W	" " "		"	22.09'		15' Cb
	" " "		"	21.56'		" Gut
TP 17+00				21.62 21.7'	℄	
"				21.58'		15' Gut
"				22.05'		" Cb
"				20.79'	14.9' Gut	
				21.19'	" Cb	

Profile No. X-Sec. No. Notes Red. Date Notes Chkd. Date Plotted Date Job No. 5294 Division No. Survey of Wtr Works Dist #29 Survey by Mankey Notes ETM Date 5-26-60 Map No. Index C. Johnson

F. B. 2646 Pg. 145

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.	APPIAN WAY LT & South	℄	RT & North
17+53.9'	SSMH			Rim El. 21.81'			
INVERT on 20" Inlet on W.				17.56	4.25 Rim to F.L. of	20"	V.C.P.
"	"	" Outlet to E.		17.51'	4.30' " "	"	"
18+00'				21.3'		℄	
"				21.88			15' Gut
"				22.31			" Cb
"				21.00	14.9' Gut		
"				21.47'	" Cb		
19+00				22.1'		℄	
"				22.11'			15.2' Gut
"				22.58'			" Cb
"				21.21'	14.9' Gut		
"				21.57'	" Cb		
20+00				22.4'		℄	
"				22.19'			15.2 Gut
"				22.69'			" Cb
"				21.49'	14.9' Gut		
"				21.96'	" Cb		
T.P.				22.85'			

F. B. 2646 PG. 146
Job No. 529416 Division No. Notes Red. Plotted Profile
Survey of Wtr Works Dist #29 Date Date No. X-Sec.
Survey by ETM Jr Notes Mankey Jr Notes Chkd. Checked
Indexed C. Johnson Date Date Date No.

76L-298 S & E #307—1-56

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TP 23.20'

STATION	B. S.	H. I.	F. S.	ELEV.	APPIAN WAY LT & SO.	℄	RT & NO.
E. end SECR	APPIAN WAY & MARINE TER			22.20'	14.9' Cb		
" "	" "	" "	" "	21.77'	" Gut		
S "	" "	" "	" "	22.23'	19.9' Cb		
" "	" "	" "	" "	21.68'	" Gut		
20+80.8	SSMH			22.71'		℄	
	INVERT on 20"	Inlet on W.		18.84'	3.87' Rim to F.L.		20" VCP
	" " "	Outlet to E		18.82'	3.89' " " "		20" "
20+82.23	INTR	APPIAN WAY & MARINE		22.7'		℄	
"				22.70'			15.3' Gut
"				23.10'			" Cb
"				22.0'	15' pav		
"				21.4'	30' pav		
	S end SWCR	" "	"	22.42'	19.9' Cb		
"	" " "	" "	"	21.93'	" Gut		
W	" " "	" "	"	22.68'	14.9' Cb		
"	" " "	" "	"	22.12'	" Gut		
22+00				23.2'		℄	
"				23.16'			15.1' Gut
"				23.54'			" Cb
"				22.69'	14.9' Gut		
"				23.17'	" Cb		

Profile No. X-Sec. No. Notes Red. Date Notes Chkd. Date Plotted Date Checked Date Job No. 5294.16 Division No. Survey of Wtr Works Dist #29 Survey by Mankow Notes ETM Date 5-26-60 Map No. Indexed Date

F. B. 2646 Pg. 147

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.	APPIAN WAY LT & SO	℄	RT & NO
23+00				23.7'		℄	
"				23.52'			15.1' Gut
"				23.93'			" Cb
"				22.95'	14.9' Gut		
"				23.40'	" Cb		
E end SECR Appian & Pacificter				23.68	14.9' Cb.		
" " " "				23.27	" Gut		
S " " "				23.50	19.9' Cb		
" " " "				22.92'	" Gut		
23+56.63	INTR	"	" "	23.8'		℄	
"	"	"	" "	23.65'			15' Gut
"				24.06'			" Cb
"				23.5'	15' pav		
"				22.3'	30' pav		
S. end SWCR		"	" "	23.22'	19.9' Cb		
" " " "		"	" "	22.65'	" Gut		
W " " "		"	" "	23.56	14.9' Cb		
" " " "		"	" "	23.10'	" Gut		
23+92.7	SSMH			Rim 23.87		℄ Rim	
INVERT on 8" Inlet on No.				20.50'	3.33' Rim to F.L. 8" VCP		
" " 20" " " W.				19.57'	4.30' " " " 20"		"
" " " Outlet E				19.57'	4.30' " " " "		"

F. B. 2646 Pg. 148 Job No. 5294.16 Division No. Notes Red. Plotted Profile
Survey of Wtr Works List #29 Date Date No. X-Sec.
Survey by ETM Notes Mankey Notes Chkd. Checked
Indexed C. Johnson Date Date No.

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.	APPIAN WAY	
					LT & SO. ℄	RT & NO
TBM				23.58'	TBM EL 23.58' FB 2646-149 APPIAN WAY & PACIFIC TER. S.E. Cor. L&T 1.2' E. of So. end C.R. in Walk	
E end NECR	APPIAN WAY & ALLEY			24.32'		15.0' Cb.
" " " "	" "	"		23.89'		" Gut
N " " "	" "	"		24.69'		20' Cb.
" " " "	" "	"		24.44'		" Gut
24+ 56.45	INTR	" "	"	24.0'	℄	
"				24.0'		15' pav
"				25.4'		30' pav
"				23.57'	14.9' Gut	
"				24.10' Rim	" Cb	
24+56.5'	SSMH.			24.04'	℄ Rim	
INVERT on 6" Inlet on N.				20.13'	3.91' Rim to F.L.	6" VCP
" " 20" " on W.				20.13'	3.91' " " "	20" "
" " " Outlet to E				20.12'	3.92 " " "	" "
N. end NWCR	APPIAN WAY & ALLEY			24.60'		20' Cb
" " " "	" "	"		24.38'		" Gut
W " " "	" "	"		24.35'		15' Cb
" " " "	" "	"		24.00		" Gut

Profile Notes Red. ____ Plotted ____ Job No. 5294/6 Division No. ____ F. B. 2646 Pg. 149
No. ____ Date ____ Date ____ Survey of Wtr Works Dist #29
X-Sec. Notes Chkd. ____ Checked ____ Survey by Monkey Jr. Notes ETM Jr. Date 5-26-60
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Johnson Date ____

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.	APPIAN WAY Lt & So ℄	Rt & No.
TBM				24.23'	TBM EL 24.23' FB 2646 – 150 APPIAN WAY & ARCADIA TER. S.E. COR. L&T in Middle of Cb. Rt.	
E. end S.E. CR. APPIAN WAY & ARCADIA TER				24.26'		14.9' cb
" " " " " "				23.77'		" Gut
S " " " " "				23.95'		19.9' cb
" " " " " "				23.33'		" Gut
25+56.65	INTR	" "	"	24.4'	℄	
"				24.32'		14.9' Gut
"				24.73'		" cb
"				23.9'	15' pav	
"				23.1'	30' pav	
S. end SWCR Appian & Arcadia				24.35'	19.9' cb	
" " " " "				23.63'	" Gut	
W " " " " "				24.44'	14.9' cb	
" " " " " "				23.88'	" Gut	
26+00				24.6'	℄	
"				24.56'		14.9' Gut
"				24.97'		" cb
"				23.85'	14.9' Gut	
"				24.33'	" cb	

F. B. 2646 Pg. 150
Job No. 5294.16 Division No. Notes Red. Plotted Profile
Survey of Wtr Works Dist #29 Date Date No. X-Sec.
Survey by ETM Jr. Notes Mankey Jr. Notes Chkd. Checked No.
Indexed C. Johnson Date Date Date

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.	APPIAN WAY LT & SO ℄	RT & NO
27+00				25.1'	℄	
"				24.90'		14.9' Gut
"				25.43'		14.9' Cb
"				24.21'	14.9' Gut	
"				24.67'	" Cb	
E end NECR.	APPIAN WAY & SEASIDE TER.			25.61'		14.9' Cb
" "	" "	" "	" "	25.22'		" Gut
N "	" "	" "	" "	27.04'		34.9' Cb
" "	" "	" "	" "	26.78'		" Gut
E " SE	"	" "	" "	24.66'	14.9' Cb	
" "	" "	" "	" "	24.18'	" Gut	
S "	" "	" "	" "	23.40'	34.9' Cb	
" "	" "	" "	" "	22.82'	" Gut	
27+59.90	INTR	" "	" "	25.9'	℄	
"				26.8'		20' pav
"				28.3'		40' pav
"				25.1'	15' pav	
"				23.8'	30' pav	

Profile Notes Red. ____ Plotted ____ Job No. 5294.16 Division No. ____ F. B. 2646 Pg. 151
No. ____ Date ____ Date ____ Survey of Wtr Works Dist #29
X-Sec. Notes Chkd. ____ Checked ____ Survey by Markey Jr. Notes ETM Date 5-27-60
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Johnson Date ____

76L-298 S & E #307—1-56

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F. B. 2646 Pg. 152
Survey of Whittier Blvd. Storm Drain Job No. 32MS Division No. Profile
Survey by ETM Notes Mar. Date No. X-Sec.
Indexed L. O. Jensen Date Notes Chkd. Checked No.
Notes Red. Plotted
Date Date
Date

STATION	B. S.	H. I.	F. S.	ELEV.	APPIAN WAY Lt. & So.	APPIAN WAY Rt. & No.
27+59.9		SMH APPIAN & SEASIDE		25.94'		
		Invert on 8" Inlet on NW		21.32'	4.62' Rim to F.L. of 8" VCP	
		" " 20" " Stub " W.		21.16'	4.78' " " " "	20" " Stub
		" " Outlet to E.		21.14'	4.80' " " " "	" "
		Nend NWCR APPIAN & SEASIDE		29.85'		48.7' CB
		" " " "		29.49'		" Gut
		W " " " "		28.42'		33.7' CB
		" " " "		27.84'		" Gut
		S " SW " "		25.50'	17.1' CB.	
		" " " "		24.75'	" Gut	
		W " " "		25.00'	12' CB	
		" " " "		25.15'	" Gut	
27+79.7'		Top Island E. end		26.81' Rim EL.		11.4' Island
27+80.7		SSMH		26.97'		21.6' Rim
		INVERT of 8" Inlet on W		21.53'	5.14' Rim to F.L. of 8" VCP	
		" " " Outlet to S.E.		21.35'	5.32' " " " "	" "
27+94.7'		Top Island		28.16'		11.4' Island
28+09.7'		" W. end		27.42'		" "
TBM (Set)				25.61'	TBM EL. 25.61' FB 2646-152 APPIAN WAY & SEASIDE TBR. SW. COR. Lt. Co. Cen. Tog in Mid SW. CB. Ret.	

76L-298 S & E #307—1-56

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Profile Notes Rod____ Plotted____ Job No 5244 Division No____
No____ X-Sec. Date____ Date____ Survey of Water Works Dist #29
Notes Chkd.____ Checked____ Survey by Mauldin Notes Ernest Date 5-27-60
No____ Date____ Date____ Map No____ Inked C. Johnson Date____

F. B. 2646 Pg. 153

STATION	B. S.	H. I.	F. S.	ELEV.	APPIAN WAY	
					LT & SO	TAN RT & NO
29+00				27.2'		
"				27.09'		33.9' Gut
"				27.51'		" CB
"				26.35'	12' Gut	
"				26.79'	" CB.	
"				26.96'	20' Back Wk.	
"	Parking Lot on Promenade plain			15.9'	23' (NOTE: Parking Lot Lies Between Seaside Ter. & Moss Ave.)	
29+84.9	SSMH			Rim 27.44'		8.4' Rim
	Water level of 24" V.C.P. at GR. MH			0.44	27' Rim to Water level (Approximate)	
	Inlet on W. & Outlet to N.E. & Pumping plant (PIPE SIZES & SEWER INFO. BY SANTA MONICA SEWER MAN)					
29+98?	BCR 25' Rad			27.74'		34.1' CB
"	" " "			27.18'		" Gut
30+22.5	ECR "	"		28.10'		13.9' CB
"	" "	"		27.45'		" Gut
	E. end SECR APPIAN WAY & MOSS AVE			27.58'	12' CB	
	" " " "	" "	" "	27.12'	" Gut	
	S " " "	" "	" "	27.58'	17.1' CB	
	" " " "	" "	" "	26.98'	" Gut	

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.	APPIAN WAY LT & SO	⊼ LN	RT & NO.
30+07.1' SDMH				Rim 27.40'			7.4' Rim
INVERT on 48" RCP. Ctr. M.H.				12.10	15.30 Rim to F.L. of 48" R.C.P.		
30+13.84 INTR APPIAN & MOSS				27.20'		⊼	
"				26.7'	20' pav.		
"				24.6'	40' pav.		
30+16.2 SSMH				Rim 27.51'			21.9' Rim
INVERT on 8" Inlet on N				22.80	4.71' Rim to F.L. 8" V.C.P.		
" " Outlet to E				22.44	5.07' "		
S. end SWCR APPIAN & MOSS				27.23	18.0' cb		
" " " " "				26.66'	" Gut		
W " " " " "				27.31'	13' cb		
" " " " " "				26.88	" Gut		
" " " " " "				27.39	13.1' Cb. = Start of 1' Section SS PG 128		
30+24.8 W end 20 Rd " "				28.08			11.' Cb
" " " " " "				27.42'			" Gut
31+00				26.6'		⊼	
"				26.67'			11.' Gut
"				27.32'			" CB
"				32.8'			30' Dirt

F. B. 2646 Pg. 154
Job No. 5294.16 Division No. Notes Red. Plotted Profile
Survey of Wtr Works Dist #29 Date Date No.
Survey by ETM Notes Mankey Kr. Notes Chkd. Checked X-Sec.
Indexed C. Jo Date Date Date No.

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.	APPIAN WAY LT & SO.	⊼LN	RT. & NO.
31+00				26.49'	13' Gut		
"				27.34'	" Cb		
"				27.35'	16.7' Bk. Wk.		
"				16.6'	17.9' Base Ret. Wall		
32+00				25.9'		⊼	
"				26.02'			11.2' Gut
"				26.66'			" Cb
"				33.6'			30' Dirt
"				25.87'	13' Gut		
"				26.45'	" Cb		
32+35.8 INTR APPIAN WAY & COLORADO AVE							
E. end SECR. Appian & Drive to Parking Lot				26.13'	13' Cb		
" " " " " " " "				25.41'	" Gut		
S " " " " " " "				25.19'	28' Cb		
" " " " " " " "				24.37'	" Gut		
32+64.3 INTR " " " " ⊼LN				25.3'		⊼	
"				25.41'			11.2' Gut.
"				26.10'			" Cb.
"				35.3'			30' Dirt

Profile No. X-Sec. No. Notes Red. Date Notes Chkd. Date Plotted Date Checked Date Job No. 5294/16 Survey of Water Works Dist #29 Survey by Monkey Notes ETM Date 5-27-60 Map No. Indexed C. Johnson Division No. F. B. 2646 Pg. 155

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.	APPIAN WAY LT & So.	↑ LN RT & No.
32+64.39				24.9'	20' pav.	
"				24.0'	40' pav.	
32+61'	SSMH.			Rim El. 25.46'		6.5' Rim
FLOODED { Wtr. level of 24" V.C.P. at CTR. MH. (Inlet W. & So. & Outlet E.				1.7'	23.8' Rim to Water level (approximate) (Pipe sizes by S.M. City Sewer Man) (NOTE: INVERTS are available at S.M. Eng. Office)	
32+69.7	SSMH			Rim 25.45'		6.3' Rim
FLOODED { Wtr level of 24" V.C.P. CTR. MH. Inlet W. & Outlet E.				1.3'	23.7' Rim to Water level (approximate)	
BM 48-36 (Fd)				25.63'	BM 48-36 EL 25.635 FB 1369-36 Santa Monica, Appian Way & Colorado Ave, lower level, N.W. Cor., a Std Disk Stamped "4 1940" in top of Curb at N.Wly end Cb. Ret.	
Send SWCK APPIAN & DR. to PKG LOT				23.95'	48' Cb	
" "	" "	" "	" "	23.12'	" Gut	
" "	" "	" "	" "	25.61'	13' Cb	
" "	" "	" "	" "	24.68'	" Gut	
34+00				24.4'	↑	
"				24.37'		11.2' Gut
"				25.06'		" Cb.
"				31.4'		30' Dirt

F. B. 2646 PG. 156

Job No. 294.16 Division No. Notes Red. Plotted Profile
Survey of Wtr Works Dist #29 Date No.
Survey by ETM Jr Notes Mankey Jr Notes Chkd. Checked X-Sec.
Indexed C. Johnson Date Date No.

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.	APPIAN LT & SO.	WAY RT & NO
34+00				24.04	13' Gut	
"				24.86	" Cb	
"				24.88	16.7' Back Wk.	
"	Base Ret. Wall			15.9	17.9' Base Ret. Wall	
34+86.0 E end S.E.C.R. APPIAN & DR. to PKG. LOT				24.18	13.0' Cb	
" " " " " " " "				23.51	" Gut	
" S " " " " " "				24.19	18' Cb	
" " " " " " " "				23.71	" Gut	
35+00				23.6		
"				23.56		11.2' Gut
"				24.20		" Cb
"	So. Cb of Off Ramp			25.30		19.3' Cb.
35+21.8 S. end S.W.C.R. APPIAN & DR. to PKG LOT				23.72	18' Cb	
" " " " " " " "				23.23	" Gut	
35+26.8 W " " " " " " "				23.53	13' Cb	
" " " " " " " "				22.85	" Gut	
35+45.7 1.5 Rad. Bet. " & Off Ramp				22.60		11.2' Gut
"				23.27		" Cb
"				23.31		14.2' Cb
"				22.64		" Gut

Profile Notes Red. ____ Plotted ____ Job No. 5294 Division No. ____ F. B. 2646 Pg. 157
No. ____ Date ____ Date ____ Survey of Water Works Dist #29
X-Sec. Notes Chkd. ____ Checked ____ Survey by Markey & Notes ETM Date 5-27-60
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Johnson

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.	APPIAN WAY LT & SO	⊼LN RT & NO
35+49.3	5.0' Rad Bet. Off Ramp & Olympic			22.43'	(See Pg 129)	38.2' Cb
"	" " " " "			21.80'		" Gut
	" " " " "			22.27'		48.2' Cb
	" " " " "			21.28'		" Gut
35+88.7	End of Section S-S & B.R.C.			20.89'	13.0' Gut	
"	" " " "			21.59'	" Cb	
36+00				20.8'		⊼
"				20.90'		9.5' Conc. Pav.
"				20.75'		20' Conc Pav
"				19.80'		40' " "
36+32.6	P.R.C.			19.65'	15.4' Gut	
"				20.33'	" Cb	
36+44.6	SSMH			Rim 19.77	6.0' Rim	
	INVERT on 10" Inlet on N.E.			4.62'	15.15' Rim to F.L. of 10" V.C.P.	
	" " " Outlet to W.			4.27'	15.50' " " " " " "	
36+65.3	SSMH			Rim 19.27'	8.0' Rim	
	INVERT on 10" Inlet from E			3.19'	16.08' Rim to F.L. of 10" V.C.P.	
FLOODED	Water Level of 24" at CTR. MH.			1.6'	17.7 Rim to Water level (Approximate)	
	Inlet on W. Outlet to E					

F. B. 2646 PG. 158
Job No. 5294.16 Division No. Notes Red. Plotted Profile
Survey of Wtr. Works Dist. #29 Date Date No. X-Sec.
Survey by ETM Notes Notes Chkd. Checked No.
Indexed C. Johnson Date Date Date

76L-298 S & E #307—1-56

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Profile Notes Red.____ Plotted____ Job No. 5248.1 Division No.____
No.____ X-Sec. Date____ Date____ Survey of APPIAN WAY Date 5-27-60
No.____ Notes Chkd.____ Checked____ Survey by Mauk, Wilkes, Quist Notes by Date
Date____ Date____ Map No.____ Indexed C. Johnson Date____

F. B. 7646 Pg. 159

STATION	B. S.	H. I.	F. S.	ELEV.	APPIAN WAY	
					Lt ℄ 50 TCW	Rt ℄ NO
36+868	SSMA (Frozen Shut)			Rim 19.05'	(Frozen Shut)	6" Rim
37+00				18.8'	↑	
"				18.82'		2.8' edge Conc Pav.
"				18.55'		20' Conc Pav
"	(℄ ℄ of Olympic ±)			17.41'		40' " "
37+07.8	ERC.			18.37'	17.5' Cut	
"				19.04'	" CB	
38+00				17.8'	↑	
"				17.34'	16.5' Cut	
"				18.00'	" CB	
38+07.5				17.74'		1.0' Cor Conc Pav
"				17.84'		20' "
"				17.20'		40' " "
BM 48-35 (Rod)				16.64'	FB 1369-36 BM 48-35 (US 4661 Beach Control N-39) El 16.64 At Santa Monica L.A. Co., NR. the Intr. of Appian Way & US 101 About 289' N.W. of the ℄ of the N.W. tunnel Intr. Chnl. along the projected ℄ of Appian Way & 12.6 N.E. of the S.W. CB of the Hwy. in City of L.A. Std. Dist. Stamped N-39, 0.7' dn in L.A. City Eng. H.H.	

F. B. 2646 Pg. 160

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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76L-298 S & E #307—1-56

F. B. 2646 Pg. 161

Profile No. ____ Notes Red. ____ Date ____ Plotted ____ Date ____ Job No. 5292.18 Division No. ____

X-Sec. No. ____ Notes Chkd. ____ Date ____ Checked ____ Date ____ Survey of Water Works Dist #29 Survey by ETM Jr. Notes Voge Date 6-20-60 Map No. ____ Indexed C. Tompson Date 6-20-60

JN 5292.18

WATER WORKS DIST. #29

MARINA DEL REY SERVICE

TBM'S

Mankey Jr.
Voge
Swann
L. Jones

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

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761-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.	
BM				15.38	BM 1956 EL 15.38 City BM SHELL AVE. & VENICE BLVD. N.E. Cor. Std. L.A. City Brass Disc. in conc. post at entrance to Venice Branch City Hall.
	2.49'	17.87			
TP			4.83'	13.04	
	4.79'	17.83			
TBM			5.15'	12.68	TBM EL 12.68 FB 2646 Pg. 162 PISANI PL. & VICTORIA AVE. S.E. Cor Wire sp. in lead at S. end Cb. Ret
	4.71'	17.39			
TBM			5.69'	11.70	TBM EL 11.70' FB 2646-162 Pisani PL. & Boccaccio Ave SW. COR. Spk in cb. 5' So. of S. end Cb. Ret
	4.01'	15.71			
TP			7.10'	8.61	
	4.83'	13.44			
TBM			5.18	8.26	TBM EL 8.26' FB 2646-162 Boccaccio Ave & Zeno Pl. N.E. Cor. Spk 12' N. of N. end cb. Ret
	4.59'	12.85			
TBM			6.79'	6.06	TBM EL 6.06 FB 2646 Pg 162 BOCCACCIO AVE. & WASHINGTON BLVD. N. Cor W. end cb. ret. Wire sp.
	5.94'	12.00			
TBM			6.74'	5.26	TBM EL 5.26' FB 2646-162 Mildred Ave & Boone Ave SW Cor. Spk in cb. 5' W of W end Cb. Ret
	1.90'	7.16			
TBM			2.36'	4.80	TBM EL 4.80' FB 2646-162 Wilson Ave & Mildred Ave S.W. Cor L&T 2' W. of W. end Cb. Ret.
	4.27'	9.07			
TBM			6.59'	2.48	TBM EL 2.48' FB 2646-162 Wilson Ave & Olive Ave S.W. Cor. Spk 1' W. of W. end Cb. Ret.
	4.36'	6.84			
TBM			3.17	3.67	Description top of Next Page.

F. B. 2646 Pg. 162

Job No. 5292.B Division No. Notes Red. Plotted Profile

Survey of Water Works Dist #29 Date Date No. X-Sec.

Survey by ETM Jr. Notes Vage Notes Chkd. Checked

Indexed A. C. Johnson Date Date No.

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.	
TBM				3.67	TBM EL. 3.67' FB 2646 Pg. 163 Wilson AVE. & ALLEY S. of HARBOR ST. S. Cor. Lead cb. ref. Bf. Sp. in P.P. No. #8367.5M.
	5.84'	9.51'			
TBM			2.63'	6.88	TBM EL. 6.88' FB 2646 Pg. 163 Wilson AVE. & WASHINGTON ST. N.W. Cor. Bf. Sp. in Lead 3' W. of W. end cb. ref.
	5.59'	12.47'			
TP			4.92'	7.55	
	4.65'	12.20'			
TP			5.38'	6.82	
	4.71'	11.53'			
TP			3.93'	7.60	
	3.22'	10.82'			
TP			5.20'	5.62	
	5.04'	10.66'			
TP			5.34'	5.32	
	4.81'	10.13'			
TP			3.04'	7.09	
	3.31'	10.40'			
TP			3.18'	7.22	
	2.19'	9.41'			
TP			4.86'	4.55	
	4.74'	9.29'			
BM			5.23'	4.06	Description top of Next Page

Profile Notes Red. Plotted Job No. 5292.5 Division No.
No. X-Sec. Date Date Survey of Water Works Dist #29
Notes Chkd. Checked Survey by ETM Jr. Notes Vogt Date 6-20-60
No. Date Date Map No. Indexed C. Johnson

F. B. 2646 Pg. 163

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.		
BM1600230				4.06 ✓	BM 1600230 1956 EL. 4.186' City BM WASHINGTON ST. & SANBORN AVE. 2.2' N. of N cb. ret. Brass Disc. Marked 29-M in 8" Mon.	
	5.13'	9.19' ✓				
TP			3.36'	5.83' ✓		
	7.80'	13.63' ✓				
BM1600210			2.35'	11.28 ✓	BM 1600210 1956 EL. 11.300 City BM WASHINGTON ST. & PACIFIC AVE. At ℄ int. a standard city survey MON.	
	5.25'	16.53 ✓				
BM1600250			5.20'	11.33 ✓	BM 1600250 1956 EL. 11.332 City BM WASHINGTON ST. & SPEEDWAY. N.W. cor. cut sp. in center cb. ret.	
		NOTE: BM 1600210 = County Engineer BM 48-7				
					BM 48-7 EL. 11.285 FB 1369-13 Pacific Ave & Washington St. ℄ Intr. Std Sur Mon (L.A. City Eng)	

F. B. 2646 Pg. 164

Job No. 5292.18 Division No. Notes Red. Plotted Profile

Survey of Water Works Dist #29 Date Date No. X-Sec.

Survey by ETM Jr. Notes Vogel Notes Chkd. Checked

Indexed R. C. Johnson Date Date No.

Notes Ck'd by	Survey of Wtr Works Dist #29
Map No.	JN 5292.18 Tape Std °F
Office Work	Surveyed by Mankey Jr.
Checked	Notes EFM Jr. Date 6-22-60
Date	Indexed C. Johnson 6-29-60

F. B. 2646 PG. 165

JN 5292.18

WATER WORKS DISTRICT #29

MARINA DEL REY SERVICE

& TIES

Mankey
Voge
Swann
L. Jones

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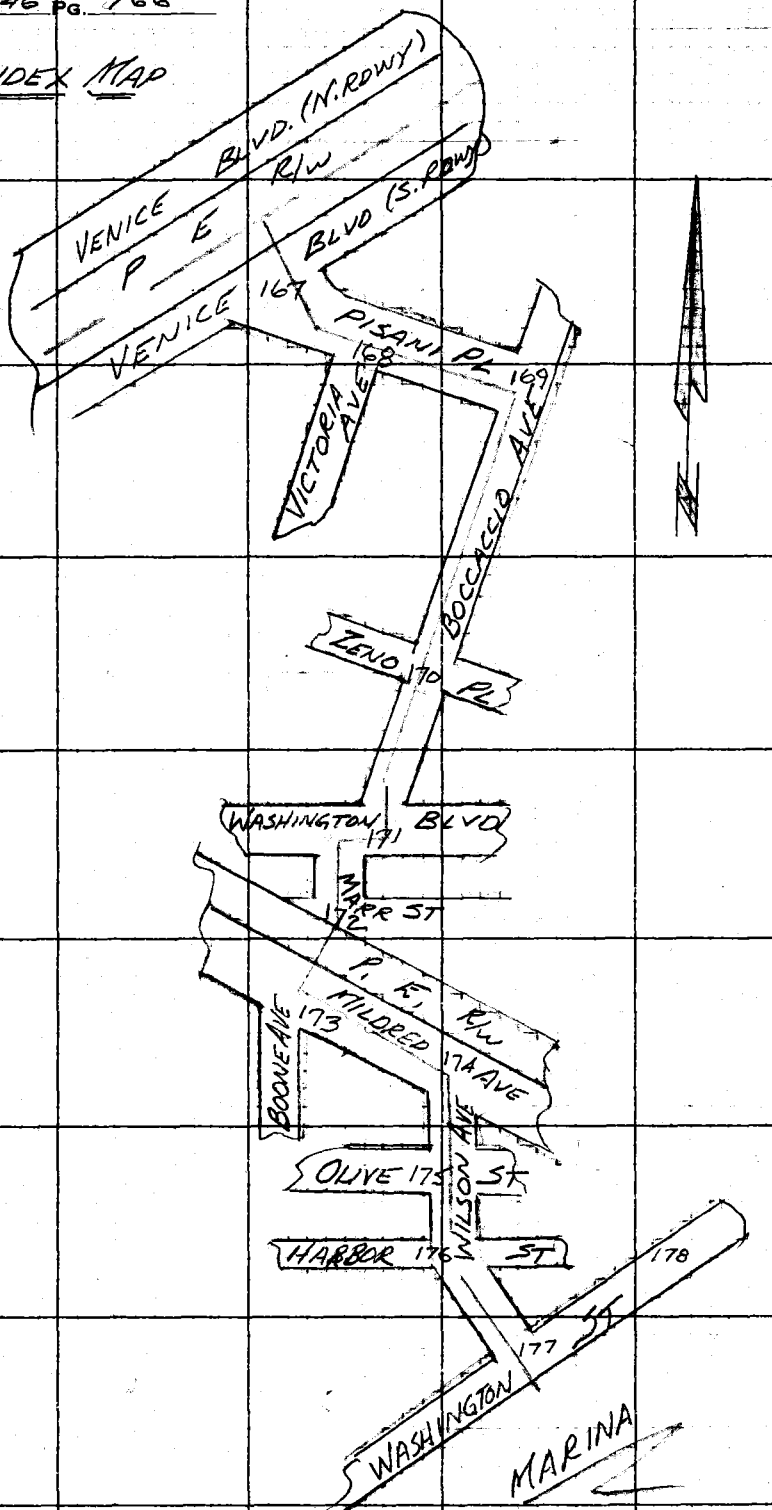
76309S CE #247—7-59

F. B. 2646 PG. 166

INDEX MAP



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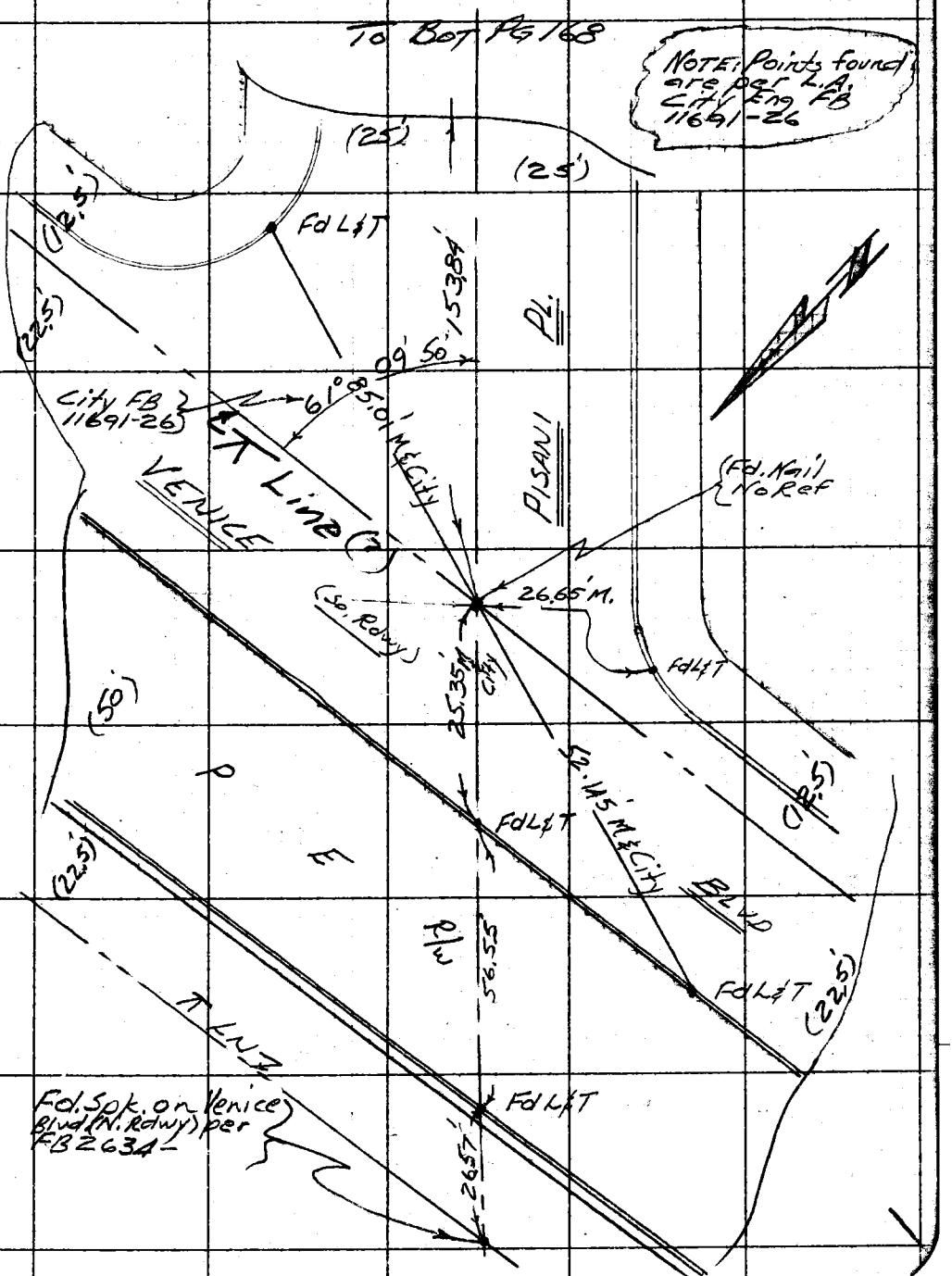
Notes Ck'd by	Survey of Wtr Works Dist #29
Map No.	JN 5292.18 Tape Std °F
Office Work	Surveyed by Mankey Jr.
Checked	Notes EFM Jr. Date 6-22-60
Date	Indexed C. Johnson

F. B 2646 PG. 167

W. S. 23-B-2



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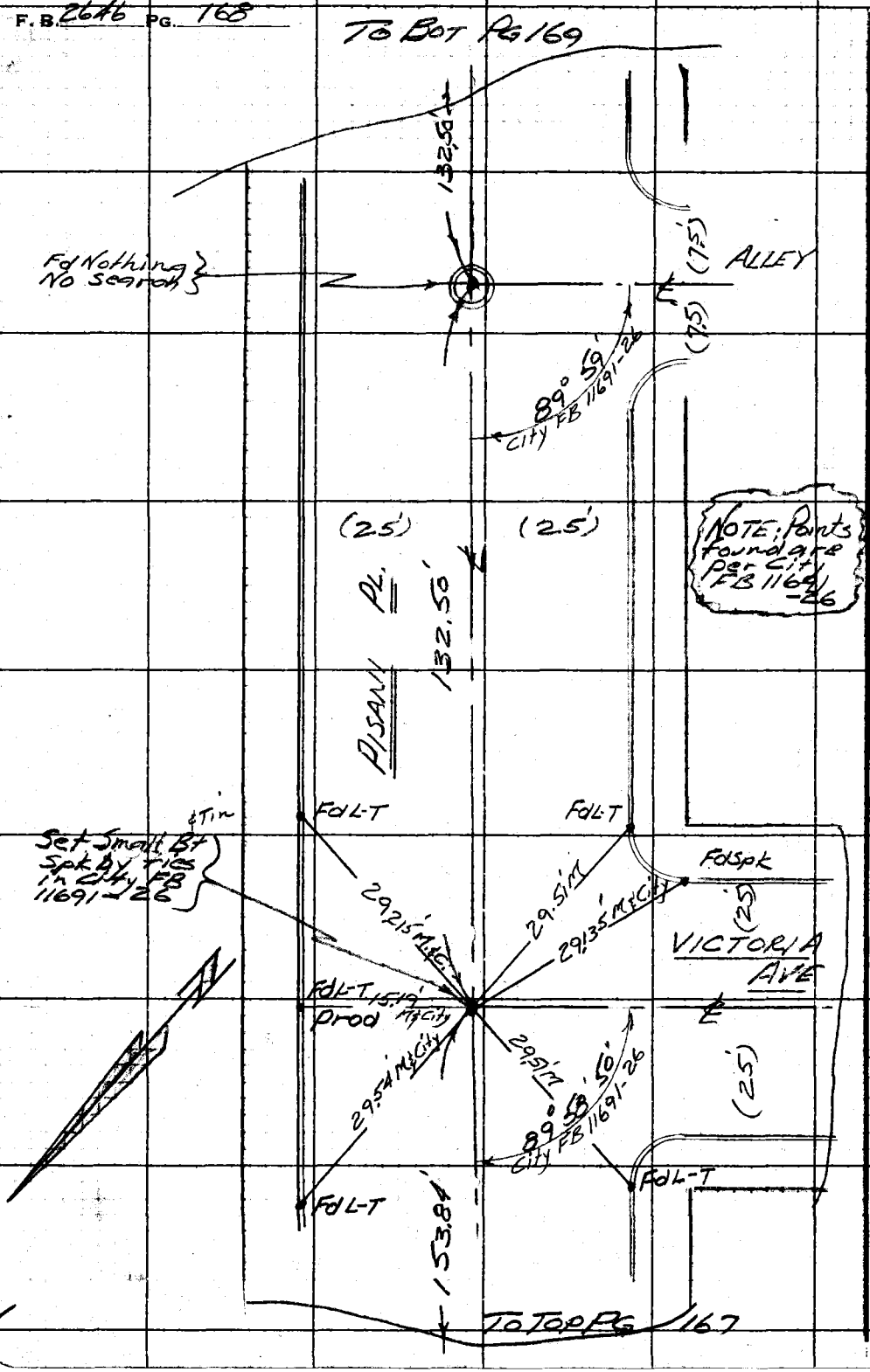
763098 CE #247—7-53

F. B. 2646 PG. 168

W.S. 23 - B - 2



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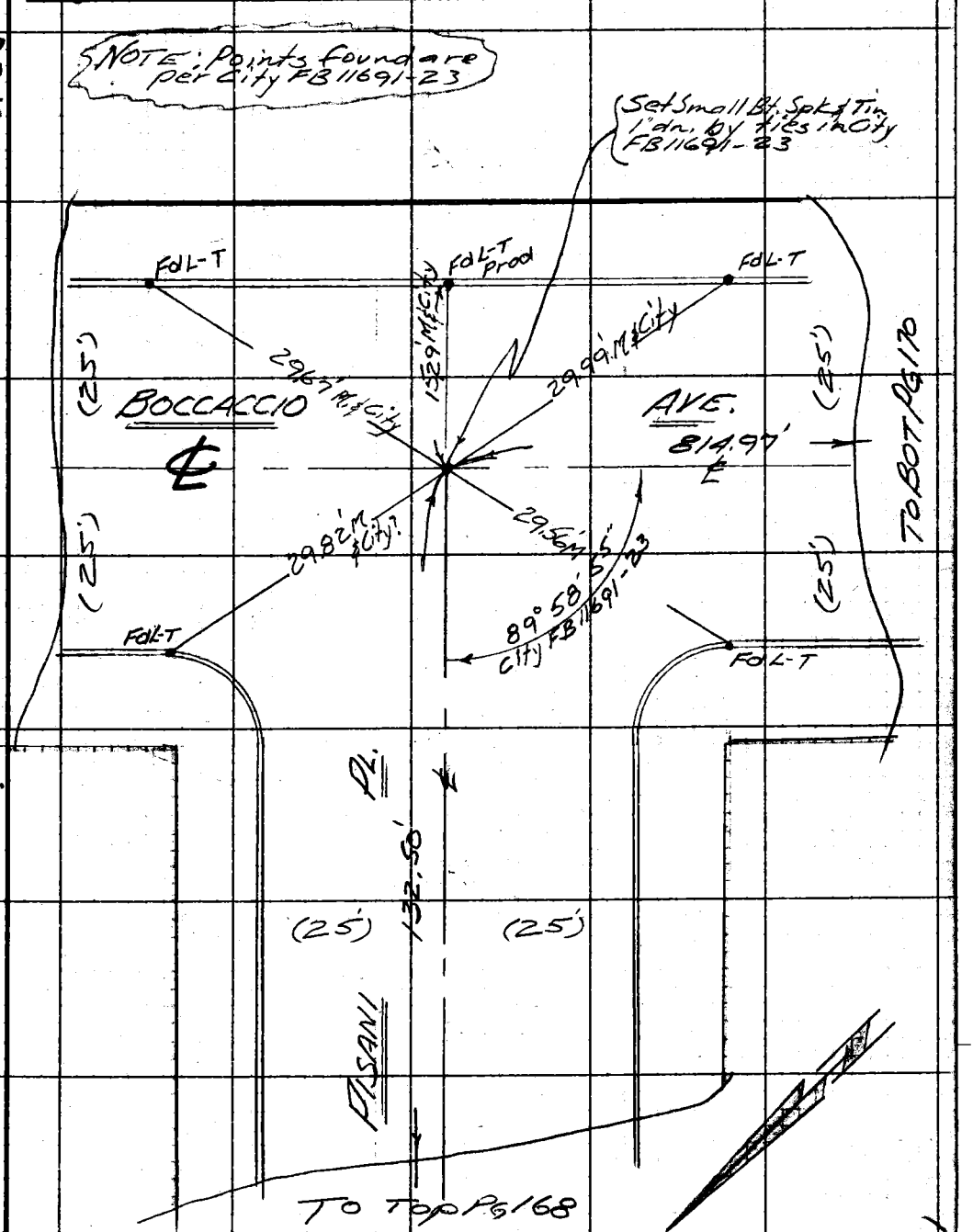
Notes Ck'd by	Survey of Wtr Works Dist #29
Map No.	JN 5292.18 Tape Std °F
Office Work	Surveyed by Mankey Jr.
Checked	Notes ETM Jr. Date 6-22-60
Date	Indexed C. Johnson

F. B. 2646 PG. 169

W.S. 23-B-2



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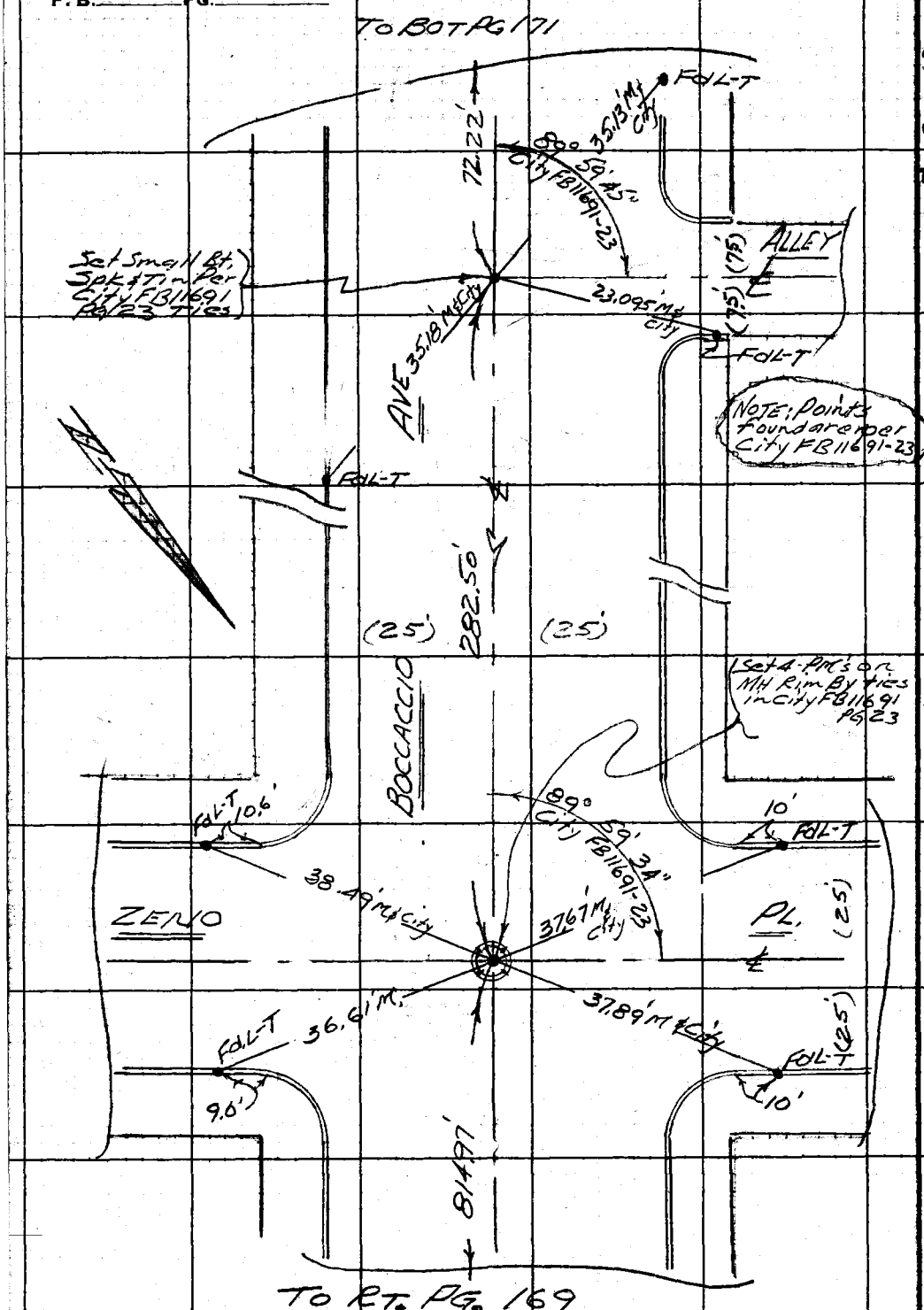
763098 CE #247—7-5

F. B. 2646 PG. 170



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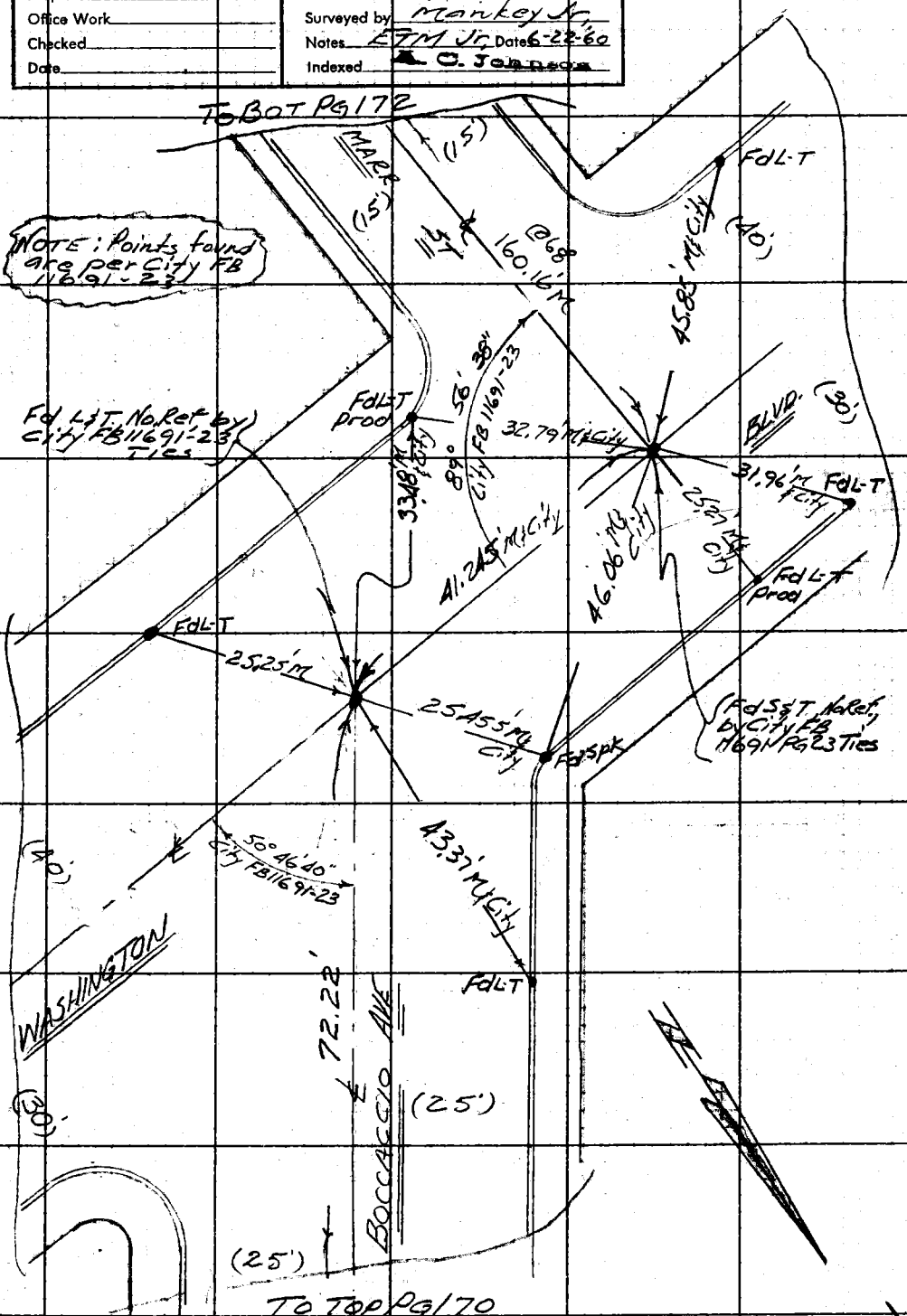
Notes Ck'd by	Survey of Wtr Works Dist #29
Map No.	JN 592218 Tape 088 Std 68° °F
Office Work	Surveyed by Mankey Jr.
Checked	Notes ETM Jr. Date 6-22-60
Date	Indexed A. C. Johnson

F. B. 2646 PG. 171



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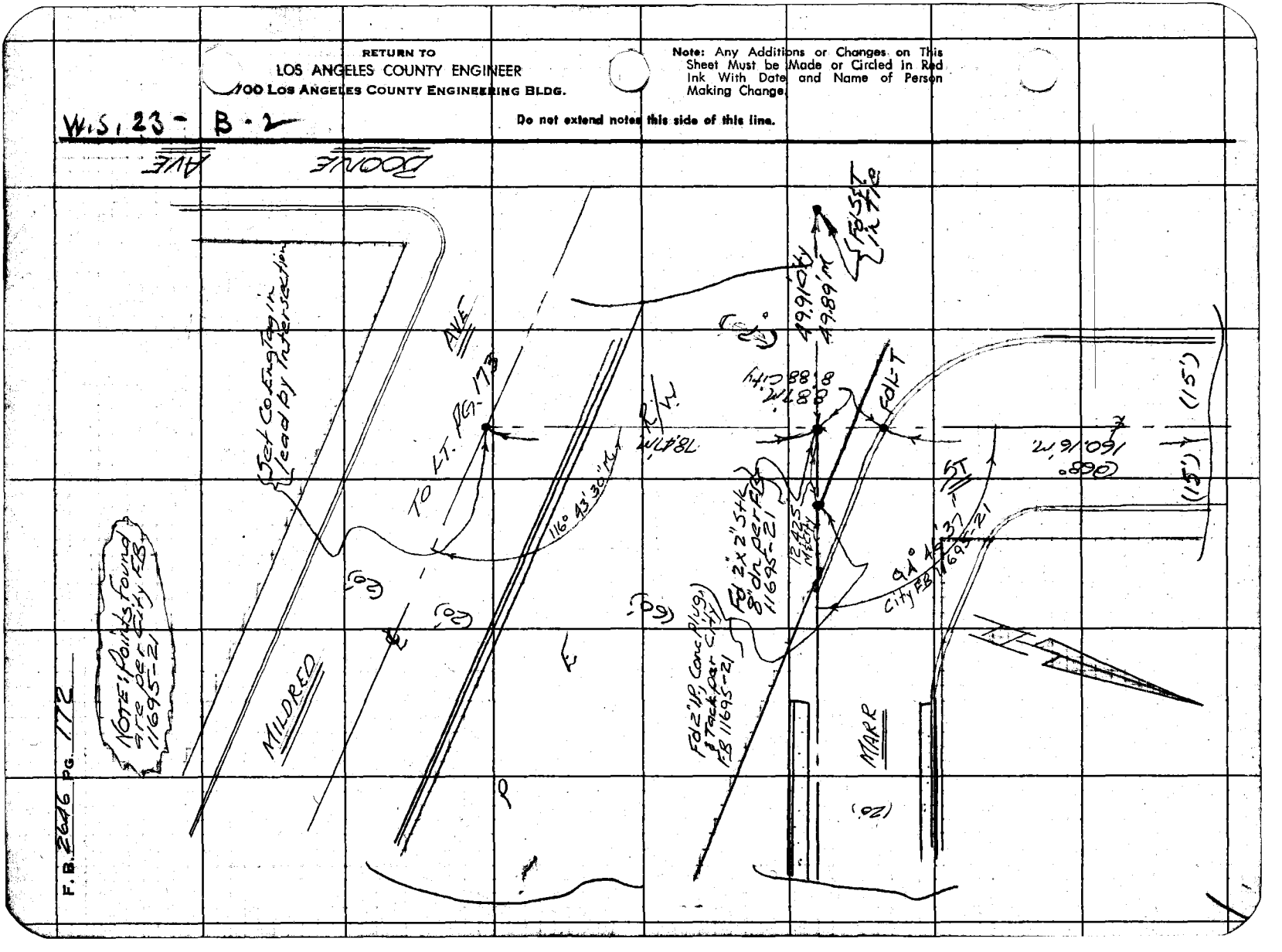
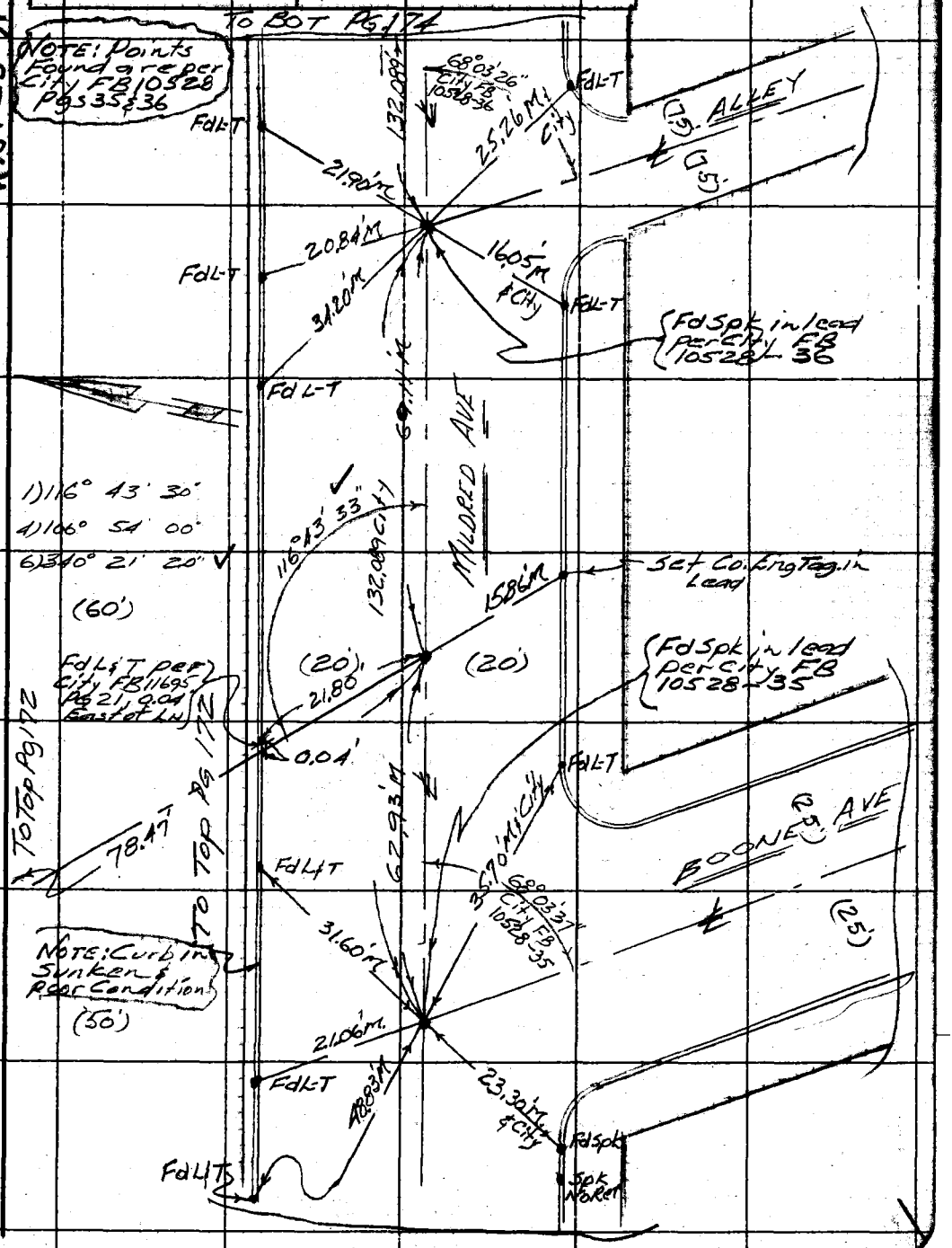
W.S. 23 - B-2



F.B. 2646 PG. 172

Notes Ck'd by	Survey of Wtr Works Dist #29	F. B. 2646 Pg. 173
Map No.	JN 5292.18 Tape 088 Std. 68° °F	
Office Work	Surveyed by Mankey Jr.	
Checked	Notes ETM Jr. Date 6-23-'60	
Date	Indexed C. Johnson	



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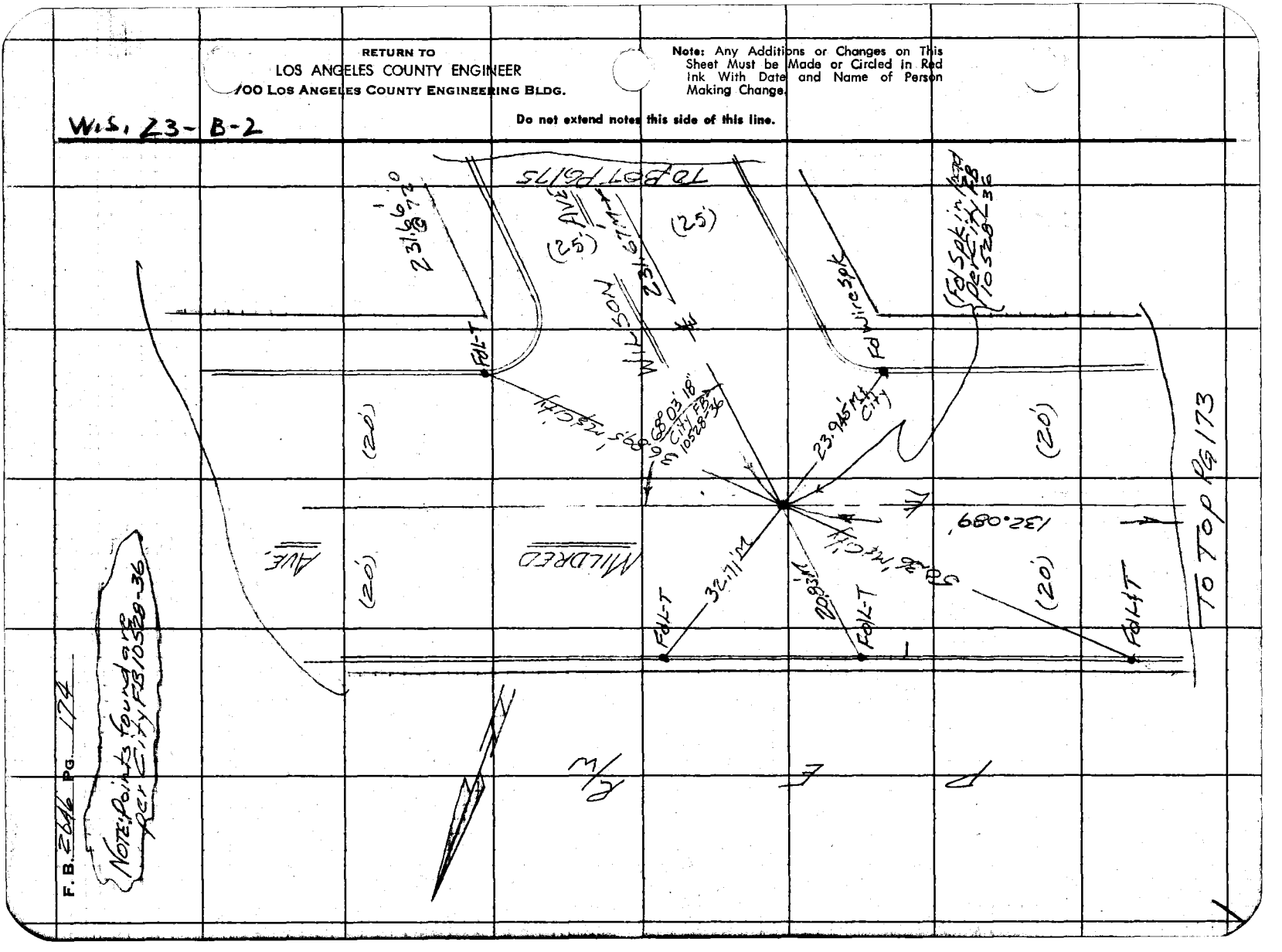
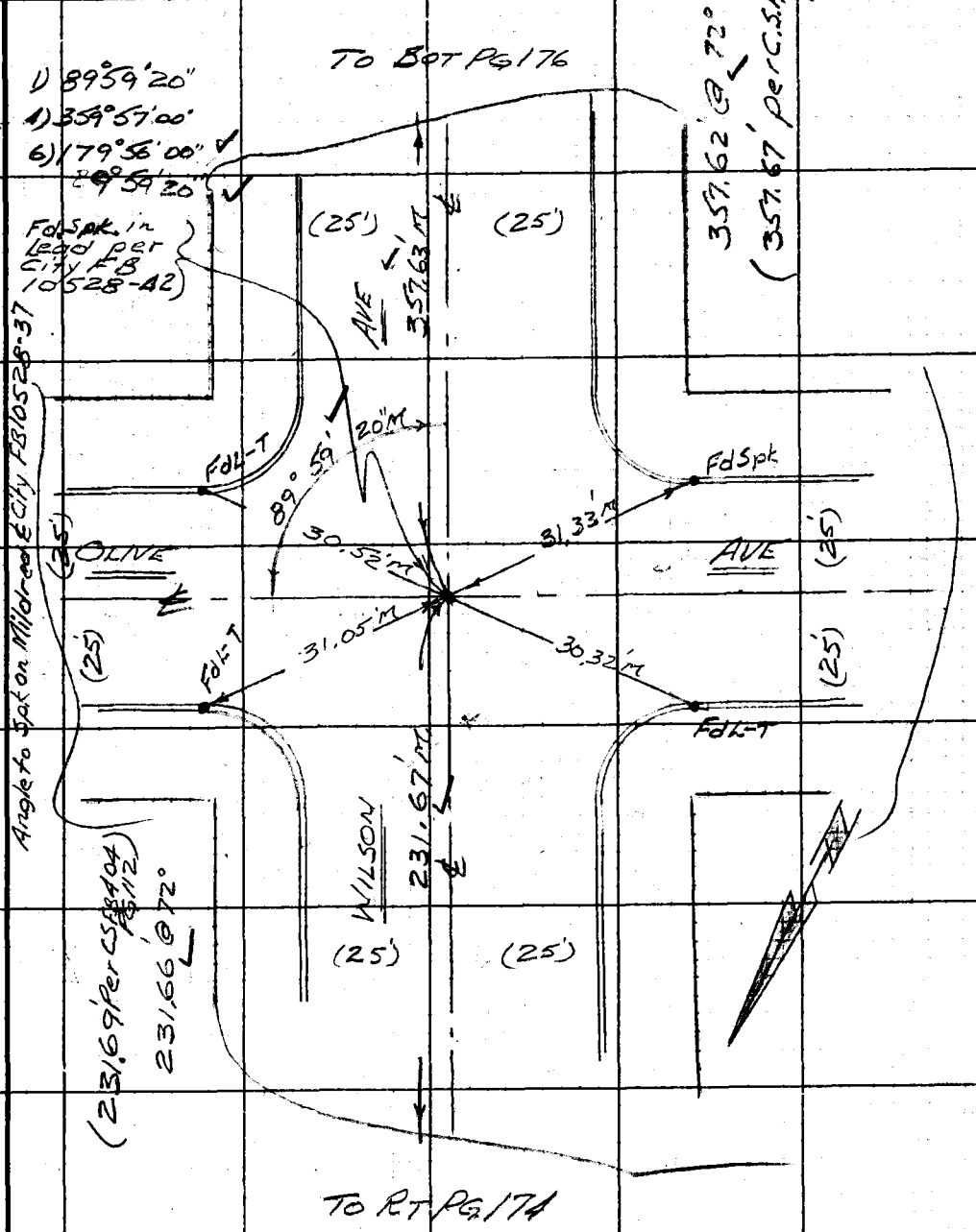
W.S. 23-B-2



Notes Ck'd by	Survey of Wtr Works Dist #29
Map No.	JN 5292.18 Tape 088 Std 68° °F
Office Work	Surveyed by Mankey Jr.
Checked	Notes EFM Jr. Date 6-23-60
Date	Indexed C. Johnson

F. B. 2646 PG. 175

W. S. 23-B-2



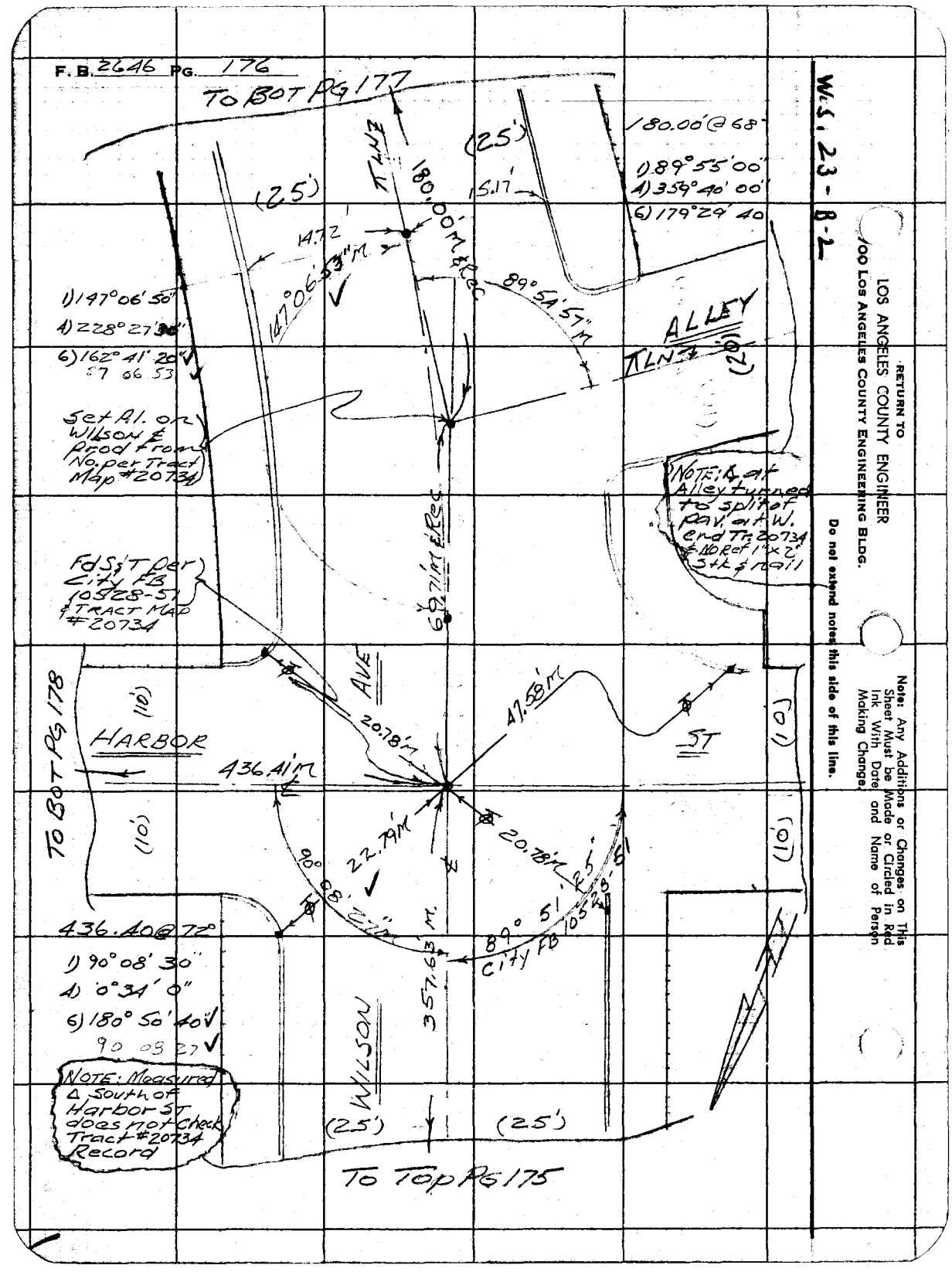
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Do not extend notes this side of this line.

RETURN TO
LOS ANGELES COUNTY ENGINEER
400 LOS ANGELES COUNTY ENGINEERING BLDG.

768098 CE #247—7-53

F. B. 2646 PG. 176



W.S. 23 - B-2

RETURN TO
LOS ANGELES COUNTY ENGINEER
900 LOS ANGELES COUNTY ENGINEERING BLDG.

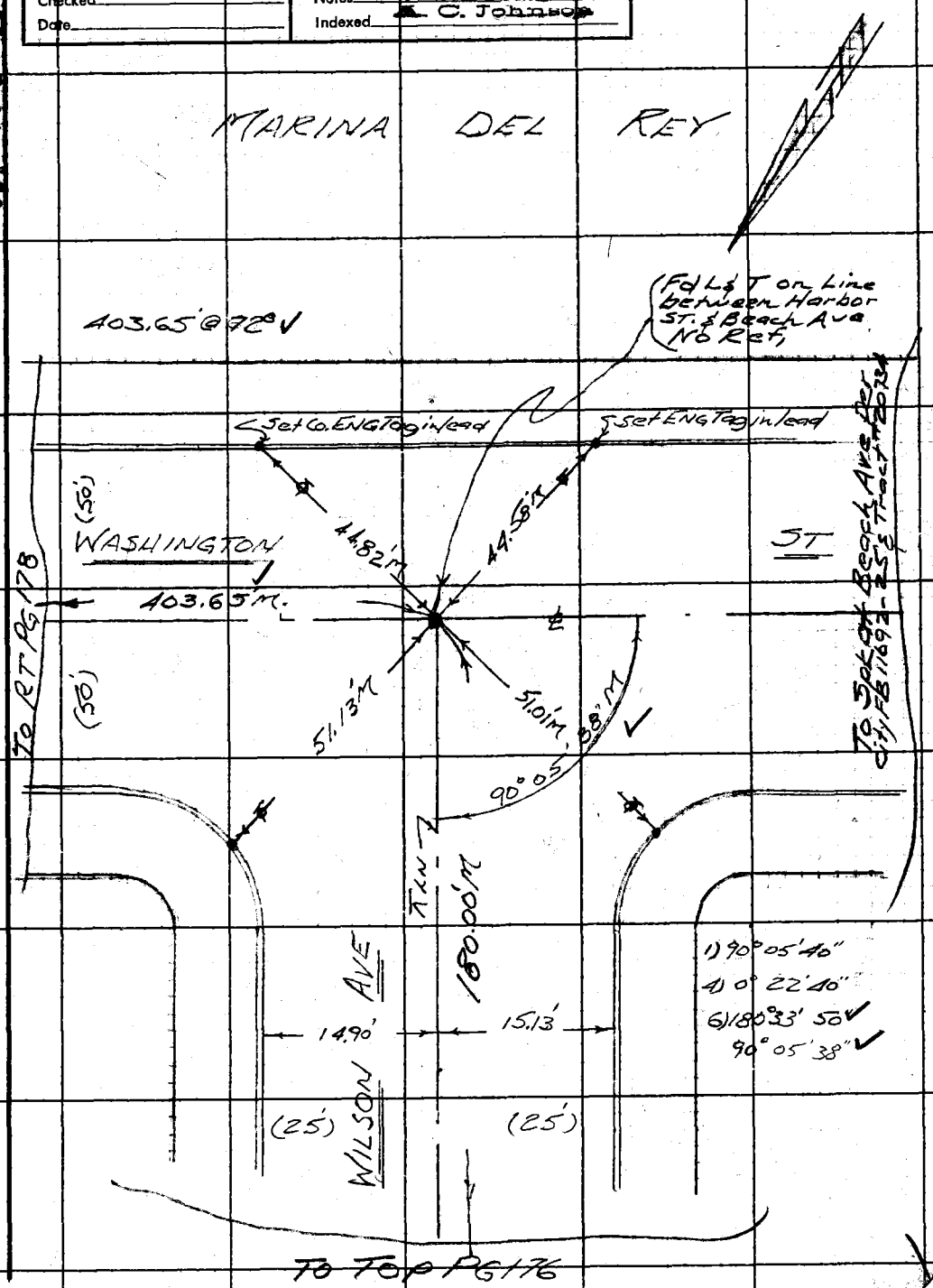
Do not expand notes this side of this line.

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 Wtr Works Dist #29
Map No.	JN 5292.18 Tape Std °F
Office Work	Surveyed by Mankey Jr.
Checked	Notes ETM Jr. Date 6-24-60
Date	Indexed C. Johnson

F. B. 2646 PG. 177

W.S. 23-B-3



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 ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

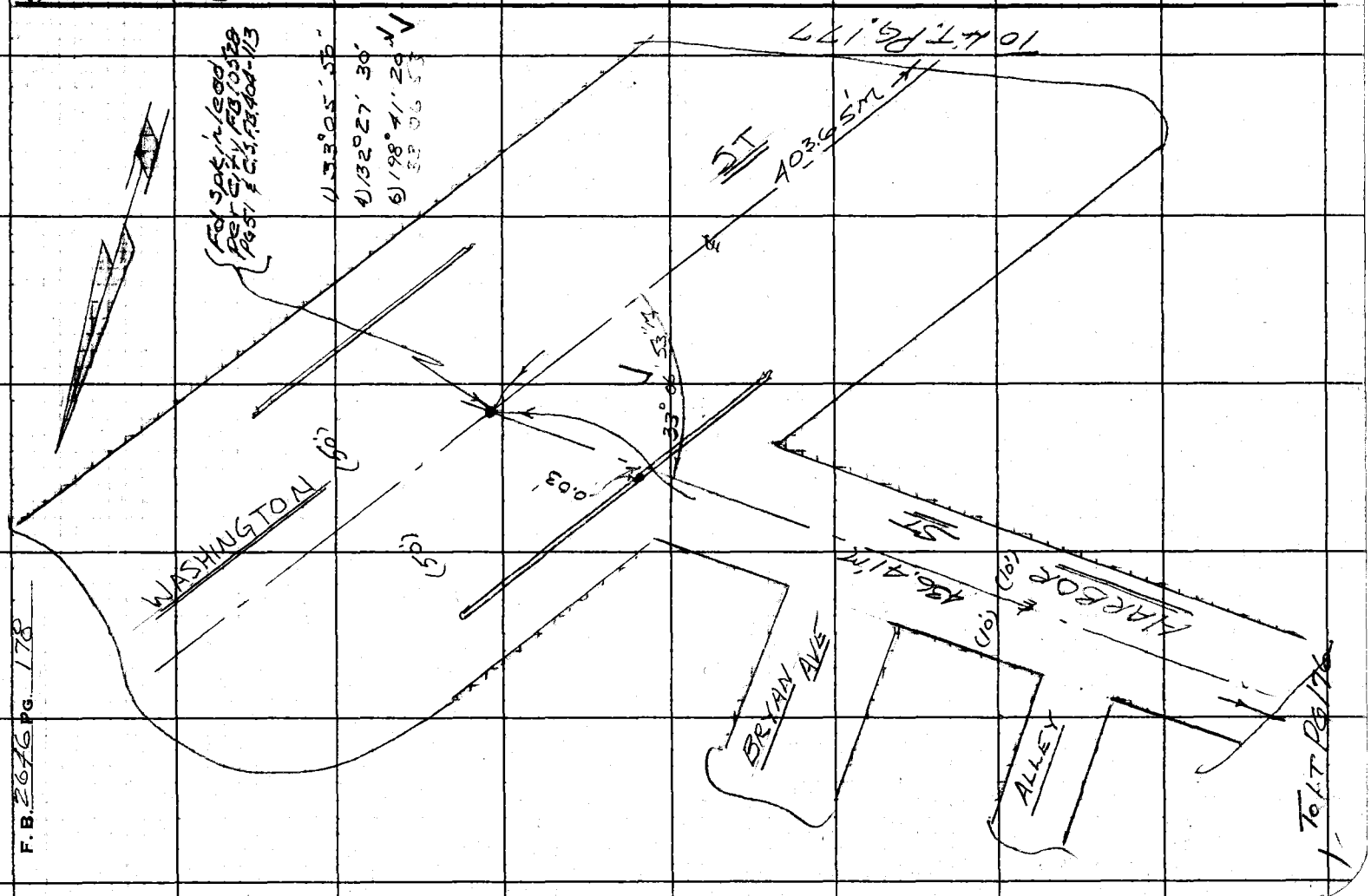
763098 CE #247—7-59

RETURN TO
LOS ANGELES COUNTY ENGINEER
900 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.

W.S. 23-B-2



F.B. 2646 PG. 178

Notes Ck'd by	Survey of Wtr. Works Dist #29
Map No.	JN 5292.18 Tape Std °F
Office Work	Surveyed by Mankey Jr.
Checked	Notes Mankey Jr. Date 6-16-60
Date	Indexed L. G. Johnson 6-28-60

F. B. 2646 PG. 179

JN 5292.18

WATER WORKS DISTRICT #29

AREA #1

MARINA DEL REY SERVICE

TOPOGRAPHY

at

VENICE BLVD & PISANI PL.

Mankey Jr.
Voge
Swann
L. Jones

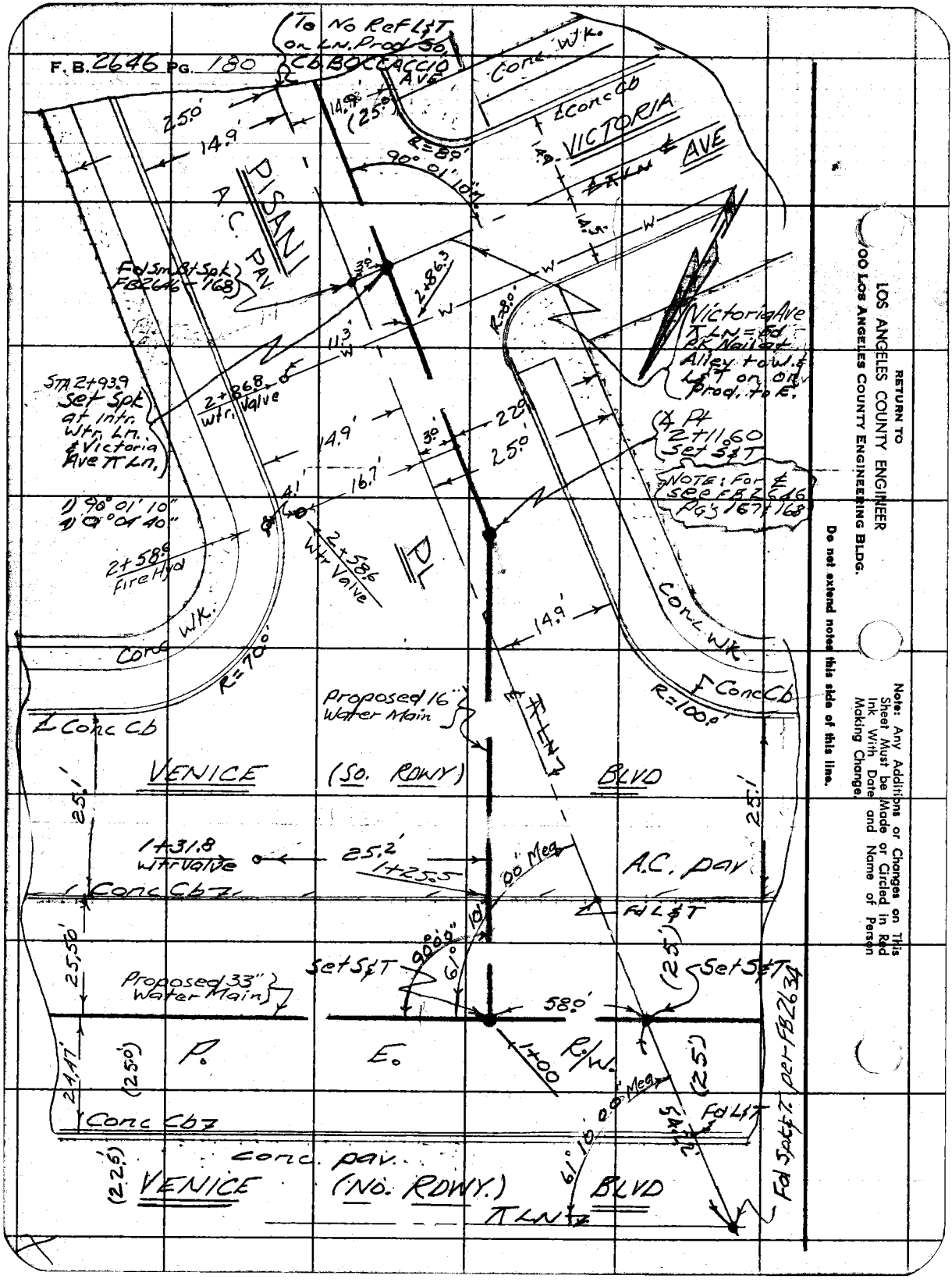
Note: Any Additions or Changes on This Sheet Must Be Made or Circled in Red Ink With Date and Name of Person Making Change.

Do not extend notes this side of this line.

RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

769098 CE #247—7-59

X



RETURN TO
LOS ANGELES COUNTY ENGINEER
900 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. 2646 PG. 181

Profile No.	Notes Red.	Plotted	Job No. 5292.18	Division No.
	Date	Date	Survey of Wtr. Works Dist #29	
X-Sec. No.	Notes Chkd.	Checked	Survey by Mankey Jr.	Notes ETM Jr. Date 6-17-'60
	Date	Date	Map No.	Indexed [illegible] G. Johnson

JN 5292.18

WATER WORKS DISTRICT #29

AREA #1

MARINA DEL REY SERVICE

X-SECTIONS

Mankey Jr.
Voge
Swann
L. Jones

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

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

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

Do not extend notes this side of this line.

76L-298 S & E #307—1-56

76L-298 S & E #307—1-56

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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.

STATION	B. S.	H. I.	F. S.	ELEV.	PISANI	PL.
BM				15.38'	BM 1956 El 15.38 SHELL & VENICE BLVD. N.E. COR. Brass Disc. in conc post at Entrance to Venice Branch City Hall	City BM. Std L.A. City
					LT & E	W = 16" wtr. LN. RT & W.
0+75.5	So. Cb.	Venice (No. Rd.) Blvd		13.35'		W Gut.
"				13.70'		W Cb.
1+00				14.4'		W
"				14.0'		50'
"				14.5	50'	
1+25.5'				13.66'		W cb
"				13.39'		" Gut
1+35				13.7'		W Crown A.C. Pav
1+49				12.9'		W A.C. Gut
1+75				13.3'		W pav
W. end	S.W. C.R.	Pisani Pl. & Venice Blvd (So. Rdwy.)		12.97'		Cb
" "	" "	" "	" "	12.37'		Gut
S "	" "	" "	" "	12.96'		11.9' Cb.
" "	" "	" "	" "	12.52'		" Gut
E. "	SE. "	" "	" "	14.07'	Cb.	
" "	" "	" "	" "	13.54'	Gut	
S "	" "	" "	" "	12.74	17.9' Cb	
" "	" "	" "	" "	12.33'	" Gut	

F. B. 2646 Pg. 182 Job No. 5292 JB Division No. Notes Red. Plotted Profile
Survey of Wtr Works Dist #29 Date Date No. X-Sec.
Survey by ETM Jr. Notes Mankey Jr. Notes Chkd. Checked No.
Indexed Date Date Date

76L-298 S & E #307—1-56

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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.

STATION	B. S.	H. I.	F. S.	ELEV.	Pisani PL. LT. & E.	W=16" Wtr. Main	RT & W.
2+11.60	∡ Pt	in 16" Wtr. Main		12.9		W	
	N. end N.W.CR.	Pisani & Victoria		12.75			11.9' Cb
"	" "	" "	"	12.34			" Gut
W.	" "	" "	"	12.80			19.9' Cb
"	" "	" "	"	12.28			" Gut
2+93.9	Intr.	"	"	12.8		W	
	W. end S.W.CR.	"	"	12.66			19.9' Cb
"	" "	" "	"	12.20			" Gut
S	" "	" "	"	12.68			11.9' Cb.
"	" "	" "	"	12.27			" Gut
4+00				12.4		W.	
"				11.88			11.9' Gut
"				12.29			" Cb
"				11.91	17.9' Gut		
"				12.37	" Cb		
BM				15.38	BM 1956 EL 15.38' City BM. SHELL & VENICE BLVD N.E. COR. Std L.A. City Brass Disc in Conc post at Entrance to Venice Branch City Hall		

Profile Notes Red. Plotted Job No. 592.18 Division No. F. B. 2646 Pg. 183
No. Date Date Survey of Wtr Works Dist #29
X-Sec. Notes Chkd. Checked Survey by Mankey Nr. Notes ETM Nr. Date 6-17-'60
No. Date Date Map No. Indexed L. C. Johnson

F. B. 2646 Pg. 184

Job No. 5292.1 Division No. Notes Red. Plotted Profile

Survey of Wtr Works Dist #29 Date Date No.

Survey by Emp Jr. Notes Markey Jr. Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

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

76L-298 S & E #307—1-56

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 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.

Notes Ck'd by	Survey of Wtr. Works Dist #29 F. B 2646 PG. 185
Map No.	JN 5292.18 Tape Std °F
Office Work	Surveyed by Mankey Jr.
Checked	Notes ET-M Jr. Date 6-16-60
Date	Indexed A. C. Johnson 6-29-60

JN 5292.18

WATER WORKS DIST. #29

AREA #2

MARINA DEL REY SERVICE

TOPOGRAPHY

at

WASHINGTON BLVD. & BOCCACCIO AVE

" & " & MARR ST

MILDRED AVE & BOONE AVE

Mankey Jr.
Voge
Swann
L. Jones

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 ENGINEER
700 Los Angeles County Engineering Bldg.

783098 CE #247—7-55

F. B. 2646 PG. 186

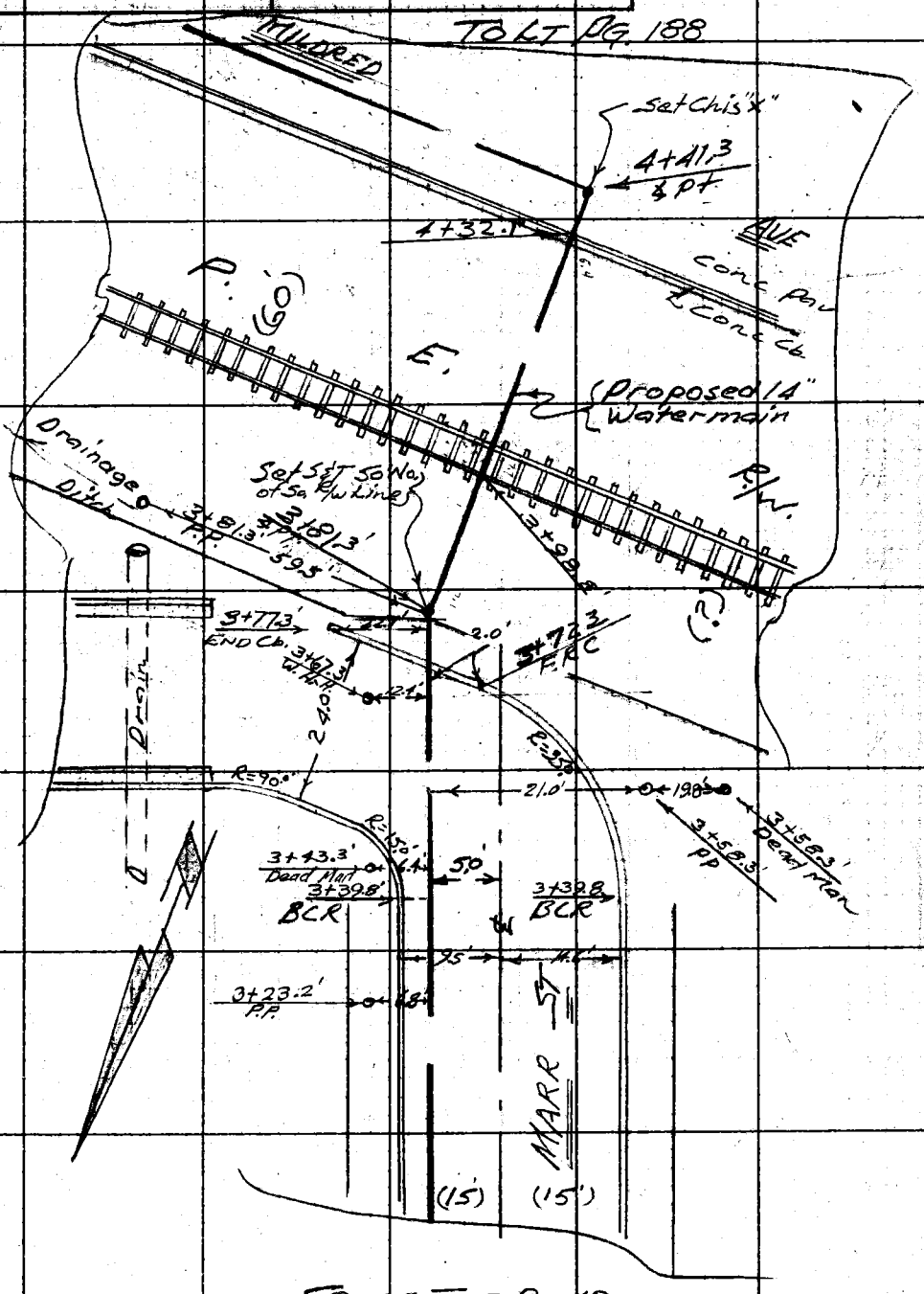
RETURN TO
LOS ANGELES COUNTY ENGINEER
700 Los Angeles County Engineering Bldg.

Do not extend notes this side of this line.

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 Wtr. Works Dist. #29
Map No.	JN 5292.12 Tape Std °F
Office Work	Surveyed by Mankey Jr.
Checked	Notes ETM Jr. Date 6-17-60
Date	Indexed K. C. Johnson

F. B. 2646 PG. 187



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

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RETURN TO
LOS ANGELES COUNTY ENGINEER
900 LOS ANGELES COUNTY ENGINEERING BLDG.

763095 CE #247—7-53

F. B. 2646 Pg. 188

RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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.

X

F. B. 2640 PG. 189

Profile No. | Notes Red. Date | Plotted Date | Job No. 5292.18 | Division No. | Survey of Wtr. Works Dist #29
X-Sec. No. | Notes Chkd. Date | Checked Date | Survey by Mankey Jr. | Notes ETM Jr. Date 6-27-60 | Map No. | Indexed C. Johnson Date

JN 5292,18

WATER WORKS DISTRICT #29

MARINA DELREY SERVICE

X-SECTIONS

IN

AREA # 2

WASHINGTON BLVD & BOCCACCIO AVE

" " & MARR ST

P. E. R/W & "

MILDRED AVE & BOONE AVE

Mankey Jr.
Voge
Swann
L. Jones
Dover

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

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
700 LOS ANGELES COUNTY ENGINEERING BLDG.

76L-298 S & E #307—1-56

76L-298 S & E #307—1-56

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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.

STATION	B. S.	H. I.	F. S.	ELEV.	BOCCACCIO AVE LT & E	W=14" W.L. RT & W
TBM (Fd)				6.06'	TBM EL 6.06' FB2646-162 Boccaccio Ave & Washington Blvd N.W. Cor. Wire Spk in W. end Cb. Ref	
0+82 N. end N.W. C.R. Boccaccio & Alley				6.77'		W cb
" " " " "			"	6.29'		" Gut
0+85 W " " "		"	"	6.84'		3' cb.
" " " " "		"	"	6.40'		" Gut
1+00 " " SW "		"	"	6.66'		3' cb
" " " " "		"	"	6.26'		" Gut
E " " "		"	"	6.48'		W cb
" " " "		"	"	6.19'		" Gut
1+00				6.6'	15' pav	
"				—	30' Gut	
"				—	" cb	
1+38.2 ∡ pt				6.12'		W cb.
"				5.67		" Gut
N. end N.W. C.R. Boccaccio & Washington Blvd				6.06		W cb
" " " " "			"	5.51		" Gut
W " " " "			"	6.06'		cb
" " " " "			"	5.49		Gut

F. B. 2646 Pg. 190
Job No. 5292.18 Division No. Notes Red. Plotted Profile
Survey of Wtr. Works Dist #29 Date Date No.
Survey by Etm Jr. Notes Mankey Jr. Notes Chkd. Checked X-Sec.
Indexed C. Johnson Date Date Date No.

76L-298 S & E #307—1-56

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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.

STATION	B. S.	H. I.	F. S.	ELEV.	WASHINGTON BLVD	
						W = 4" Wtr. Ln.
N. end NECR Boccaccio & Washington Blvd				6.78'	15' Cb LT & E	
" " " "		"	" "	6.17'	" Gut " "	
E " " "		"	" "	5.92'	Cb " "	
" " " "		"	" "	5.20'	Gut " "	
1+68.2 INTR			" "	6.1'	W	
1+93.0 So. Cb. Ln.			" "	5.42'	W Gut	
"				6.07'	" Cb	
1+ 98.2 ∡ pt				6.6'	W. Dirt	
2+18.7 SSMH				Rim EL. 5.80'		11.0' Rim RT & N.
INVERT on 8" Inlet on E.					7.33' Rim to flow line of 8" Inlet	
" " " Outlet to W.					7.39' " " " " " 8" Outlet	
					MARR ST	
2+39.6 ∡ Pt.				5.8'	W	
E. end SECR WASHINGTON Blvd & Marr St				6.27'	19.6' Cb	
" " " "		"	" "	5.66'	" Gut	
S " " "		"	" "	6.42'	4.6' Cb	
" " " "		"	" "	5.97'	" Gut	
W " SW "		"	" "	6.45'		34.4' Cb
" " " "		"	" "	5.90'		" Gut
S " " "		"	" "	6.55'		19.4 Cb
" " " "		"	" "	6.07'		" Gut

Profile Notes Red. Plotted Job No. 5292.18 Division No. F. B. 2646 Pg. 191
No. Date Date Survey of Wtr Works Dist #29
X-Sec. Notes Chkd. Checked Survey by ETMJr Notes ETMJr Date 6-27-60
No. Date Date Map No. Indexed C. Johnson Date

76L-298 S & E #307—1-56

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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.

STATION	S. S.	H. I.	F. S.	ELEV.	MARR ST LT & E,	W=14' wtr. LN. RT & W
2+39.6	∡ Pt.			5.8'		W pav.
"	flow line in Ctr. Marr St.			5.8'		5.0' pav
3+00				5.8'		W
"				5.6'		5.0' Pav FL.
"				5.9'		19.6 Gut
"				6.39'		" Cb
"				5.9'	4.5' Gut	
"				6.42'	" Cb	
3+39.8'	BCR	35' Rad.		6.25'		19.6' Cb
"	"	" "		5.8'		" Gut
"	"	15' "		6.25'	4.5' Cb	
"	"	" "		5.8'	" Gut	
3+72.3	ECR	35' Rad.		6.07'		2.0' cb.
"	"	"		5.6'		" Gut.
3+72.5	int.	Wtr. Ln. &	cb.	6.07'		W
"	"	" "	Gut	5.6'		W
3+77.3'	End	Cb		6.18'	22.7' cb.	
"	"	"		5.4'	" Gut.	
3+81.3'	∡ pt.			7.1'		W
4+01.3'	Ctr.	P.E. tracks.		7.7'		W
4+26.0'	Bot.	Break		4.4'		W

F. B. 2646 PG. 192

Job No. 5292.18 Division No. Notes Red. Plotted Profile

Survey of Wtr. Works Dist. #29 Date Date No. X-Sec.

Survey by ETM Jr. Notes Mankey Jr. Notes Chkd. Checked

Indexed C. Johnson Date Date No.

76L-298 S & E #307—1-56

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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.

STATION	B. S.	H. I.	F. S.	ELEV.	MILDRED AVE L. & N.	W = 14" Wtr Ln.	R. & S.
4+32.1'	N. cb	Mildred	Ave	5.38'		W cb.	
"	" "	"	"	5.34'		W Gut.	
4+41.3'	∡ Pt.			5.48'		W	
5+00				5.38'		W	
"				5.22'			24.0' cb
"				4.84'			" Gut.
"				5.44'	10.0' cb.		
"				5.25'	" Gut.		
5+36.2	Int. Alley & Wtr Ln.			5.37'		W	
6+00				5.26'		W	
"				4.90'			24.0' cb
"				4.54'			" Gut.
"				5.37'	10.0' cb.		
"				5.12'	" Gut.		
TBM (Fd)				6.05'	TBM El. 6.06' FB2646-162 Boccaccio Ave & Washington Blvd N.W. Cor. Wire Spk in W. end Curb Return		

Profile Notes Red. ____ Plotted ____ Job No. 5292.18 Division No. ____ F. B. 2646 Pg. 193
No. ____ Date ____ Date ____ Survey of Wtr Works Dist. #29
X-Sec. Notes Chkd. ____ Checked ____ Survey by ETH Jr. Notes Voge Date 6-28-60
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Johnson Date ____

F. B. 2646 Pg. 194

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.

Do not extend notes this side of this line.

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

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 LOS ANGELES COUNTY ENGINEERING BLDG.

76L-298 S & E #307—1-56

Notes Ck'd by	Survey of Wtr Works Dist #29	F. B. 2646	Pg. 195
Map No.	JN 5292.18 Tape Std °F		
Office Work	Surveyed by Mankey Jr.		
Checked	Notes ETM JG Date 6-		
Date	Indexed C. Johnson 6-30-50		

JN 5292.18

WATER WORKS DIST. #29

AREA #3

MARINA DEL REY SERVICE

TOPOGRAPHY

at

WILSON AVE. & HARBOR ST

&

WILSON AVE & WASHINGTON ST

Mankey Jr.
Voge
Swann
L. Jones

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.

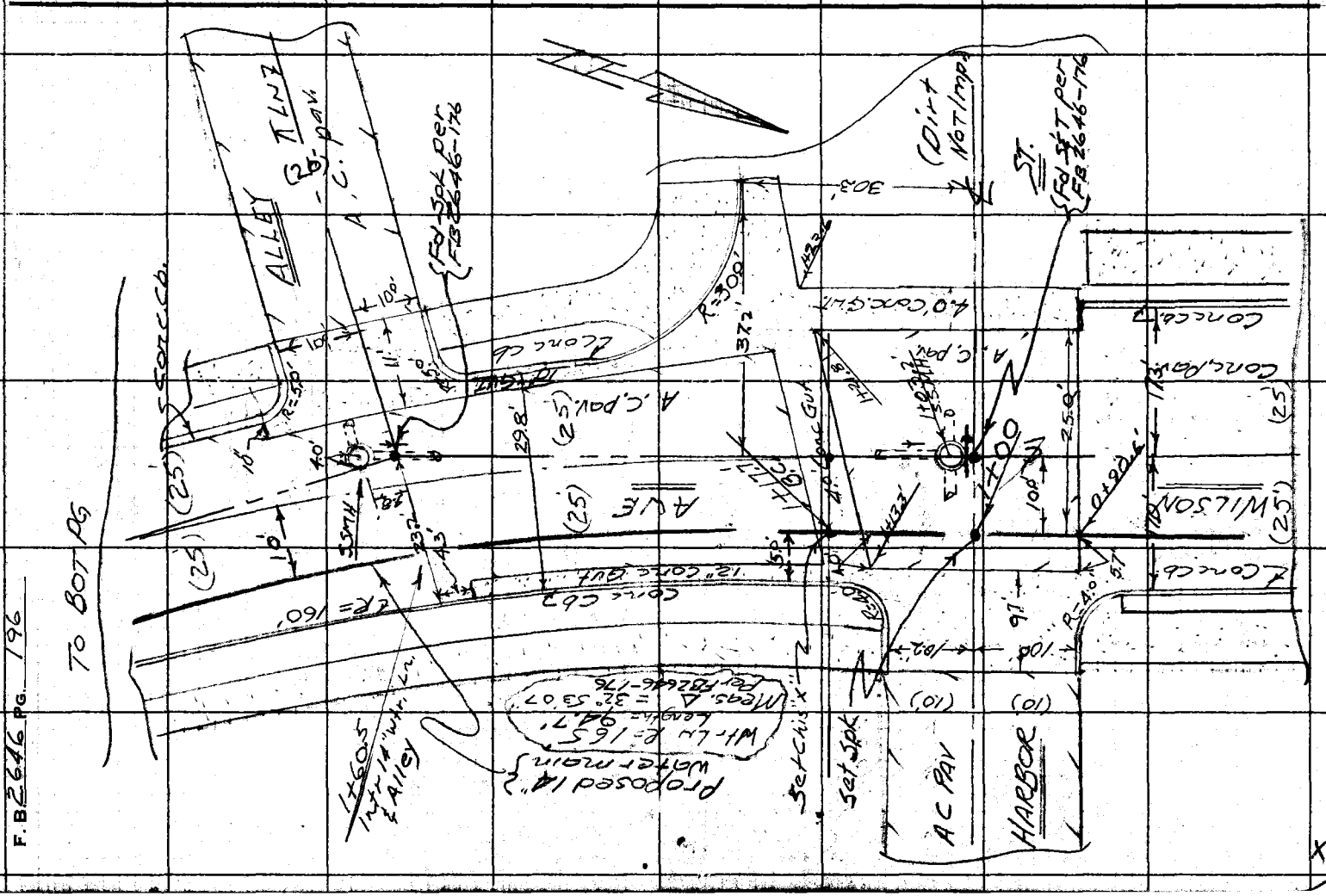
RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

763098 CE #247—7-58

RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

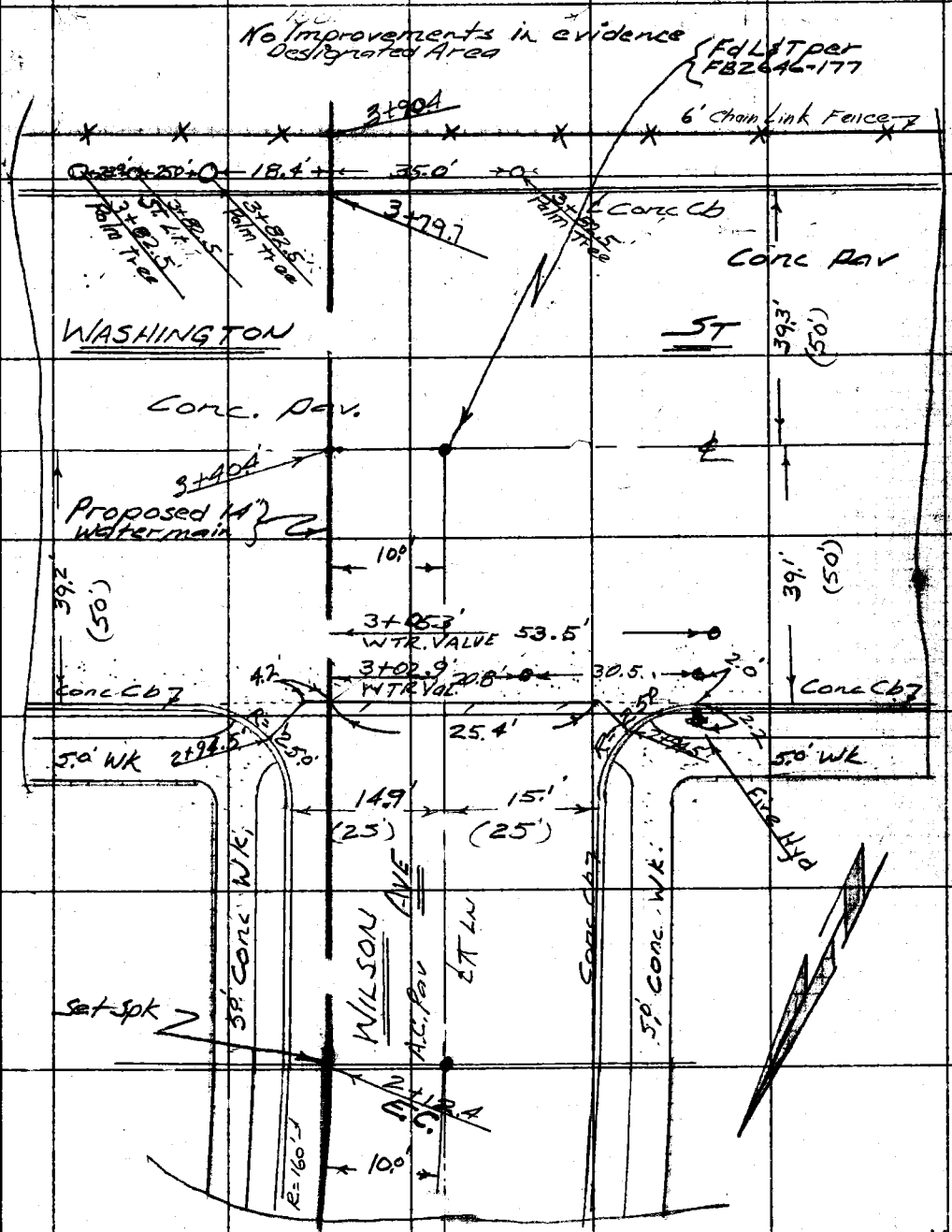
Note: Any Additions or Changes on This Sheet Must be Made or Circled In Red Ink With Date and Name of Person Making Change.

Do not extend notes this side of this line.



Notes Ck'd by	Survey of Wtr Works Dist #29
Map No.	JN 5292.18 Tape Std °F
Office Work	Surveyed by Mankey Jr
Checked	Notes Mankey Jr Date 6-
Date	Indexed A. C. Johnson

F. B. 2646 PG. 197



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 ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

763098 CE #247—7-59

RETURN TO
LOS ANGELES COUNTY ENGINEER
900 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.

F.B. 2646 PG. 198

X

F. B. 2646 Pg. 199

Profile No. ____ X-Sec. No. ____

Notes Red. ____ Date ____ Notes Chkd. ____ Date ____

Plotted ____ Date ____ Checked ____ Date ____

Job No. 5292.18 Division No. ____

Survey of Wtr Works Dist #29

Survey by Monkey Jr Notes ETM Jr Date 6-28-60

Map No. ____ Indexed C. Johnson

JN 5292.18

WATER WORKS DISTRICT #29

AREA #3

MARINA DELREY SERVICE

X-SECTIONS

at

WILSON AVE & HARBOR ST.

&

WILSON AVE & WASHINGTON ST

Monkey Jr,
Vogt
Swann
L. Jones
Dover

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

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.

PLEASE RETURN TO
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76L-298 S & E #307—1-56

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.	WILSON AVE LT & E.	W=14" wtr. Ln. RT & W.
TBM (Fd)				3.67'	TBM EL 3.67' FB 2646-163 Wilson Ave & Alley (South of Harbor ST) So. Cor. W. end Cb. Ret. Bt. Spk. in PP#83675M	
0+00				1.85'		W
"				2.04'		10' ℄ of ST.
"				1.43'	7.0' Gut	
"				1.74'	" Cb	
N. end N.E. CR.		Wilson Ave & Harbor ST		1.72'	7.0' Cb	
" " " "		" "	" "	1.34'	" Gut	
E " " "		" "	" "	1.54	11.0' Cb	
" " " "		" "	" "	1.08'	" Gut	
1+00	Intr	" "	" "	1.2'		W
"				1.3'		10' ℄ of ST.
"				1.07'		27.3' Conc Gut.
"				0.69'	15' Conc Gut	
1+03.2	SSMH	" "	" "	Rim EL 1.22'		10' Rim
INVERT on		8" Inlet on South			3.92' Rim to flow line	8" Inlet South
" "		" " " East			4.05' " " "	" " " East
" "		" Outlet to West			4.09' " " "	" " Outlet West

F. B. 2646 PG. 200
Job No. 5292 UB Division No. Dist #29
Survey of Wtr Works Dist #29
Survey by ETM Jr. Notes Mankey Jr.
Indexed C. Johnson Date
Notes Red Date
Notes Chkd Date
Plotted Date
Checked Date
Profile No.
X-Sec. No.

76L-298 S & E #307—1-56

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Profile Notes Red.____ Plotted____ Job No. 5292 Division No.____ F. B. 2646 Pg. 201
No.____ X-Sec. Date____ Date____ Survey of W.T.C. Works Dist #29
No.____ Notes Chkd.____ Checked____ Survey by Manley Notes Entered Date 6-29-60
No.____ Date____ Date____ Map No.____ Indexed R. C. Jordan

STATION	B. S.	H. I.	F. S.	ELEV.	WILSON AVE
					LT ℄ E. W = 14" wtr. Ln. RT ℄ W
E. end SECR.		Wilson Ave & Harbor		1.43'	9.0' CB
" "	" "	" "	"	1.05'	" Gut
S "	" "	" "	"	1.46'	5.0' CB
" "	" "	" "	"	0.77'	" Gut
1+16.5'				0.66'	4.0' Cross Gut
1+17.7	B.C.			0.74'	W
1+ 23.8				0.59'	25' Gut
W. end S.W. SECR.		Wilson & Harbor		1.14'	47.2' CB
"	" "	" "	"	0.45'	" Gut
S	" "	" "	"	1.44'	24.8' CB
"	" "	" "	"	0.84'	" Gut
N	" N.W.	"	Alley	1.53'	24.8' CB
"	" "	"	"	0.90'	" Gut
W	" "	"	"	1.77'	29.6' CB
"	" "	"	"	1.77'	" Gut
1+60.5	Intr	"	"	1.1' Rim EL	W
SSMH	4.8' South	"	"	1.40'	Rim
INVERT on 8" Inlet on W.					3.33' Rim to flow line 8" Inlet
"	" "	" Outlet to N.			3.46' " " " " " Outlet

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.	WILSON AVE LT & E.	W=14" Wtr. Ln.	RT. & W.
W. end S.W.C.R. Wilson Ave & Alley				2.33'			29.8' cb.
" "	" "	" "	"	2.33'			" Gut
S "	" "	" "	"	2.27'			24.8' cb.
" "	" "	" "	"	1.60'			" Gut
2+12.4 EC				2.9'		W	
"				3.0'			10' ℄ Wilson
"				2.85'	4.9' Gut		
"				3.52'	" Cb		
N. end NWCR Wilson & Washington St				5.82'			25.1' cb
" "	" "	"	" "	5.20'			" Gut
W "	" "	"	" "	6.98'			50.1' cb.
" "	" "	"	" "	6.19'			" Gut
N "	NE "	"	" "	5.87'	4.9' cb		
" "	" "	"	" "	5.24'	" Cut		
E "	" "	"	" "	6.64'	29.9' cb		
" "	" "	"	" "	6.10'	" Gut		
3+00				6.1'		W	
3+40.4'				7.16'		W conc pav	
"				7.24'			25' conc pav
"				7.15	25' Conc pav		

F. B. 2646 PG. 202 Job No. 5292.1B Division No. Notes Red Plotted Profile
Survey of Wtr. Works Dist #29 Date Date No. X-Sec.
Survey by ETM Jr. Notes Monkey Jr. Notes Chkd. Checked
Indexed A. C. Johnson Date Date Date No.

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.		
3+79.7				6.25'		W Gut
"				6.41'		W Cb
3+90.4'	Marina Del Rey's North Boundry			6.9'		W Dirt at C.L. Fence
					TBM E6 6.88' FB2646-163	
TBM (Fd)					Wilson Ave & Washington St. NW Cor Bt. Spk in lead 3' W. of W. end Cb. Ret.	

Profile No. X-Sec. No. Notes Red. Date Notes Chkd. Date Plotted Date Checked Date Job No. 5292.18 Division No. Survey of Wtr Works Dist #29 Survey by Mankey Jr. Notes E Trnd Date 6-29-60 Map No. Indexed C. Johnson Date

F. B. 2646 Pg. 203

F. B. Pg. 204 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.

76L-298 S & E #307—1-56

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Notes Ck'd by	Survey of Wtr. Works Dist #29
Map No.	JN 5294.16 Tape Std °F
Office Work	Surveyed by Mankey Jr.
Checked	Notes ETM Jr. Date 7-5-60
Date	Indexed M. E. OTT JUL 25 '60

F. B. 2646 PG. 205

JN 5294.16

WATER WORKS DISTRICT #29

ETIES

on

PACIFIC COAST HWY.

from

P.C.C. WEST of SUNSET BLVD.

to

WEST BOUNDRY of THE

CITY of LOS ANGELES

Mankey Jr.
Voge
Swann
L Jones
Dover

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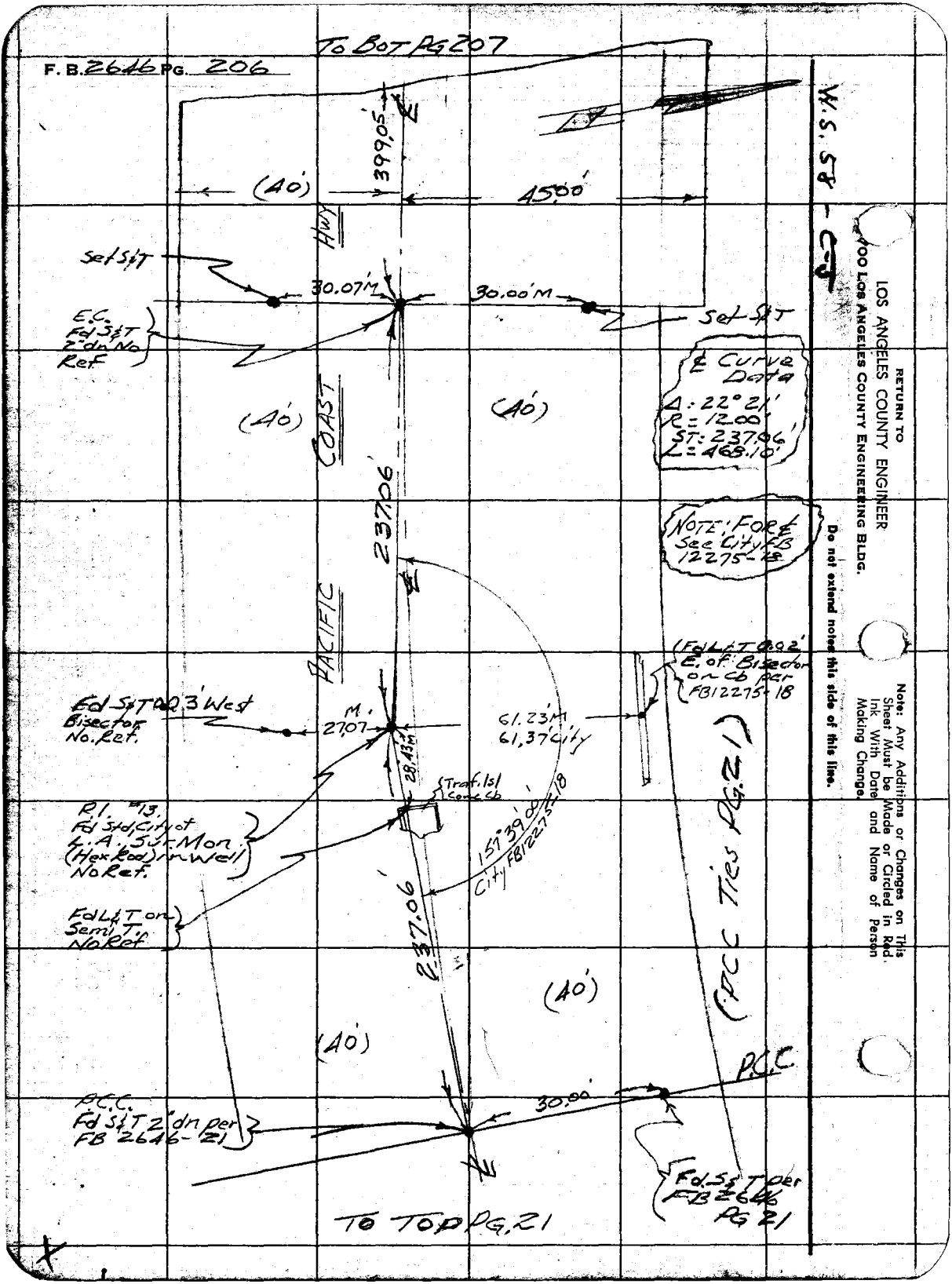
769095 CE #247—7-59

F. B. 2646 PG. 206



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

Survey of Wtr. Works Dist #29
JN 5291.16 Tape Std °F
Surveyed by Mankey Jr.
Notes ETM Jr. Date 7-6-60
Indexed H. E. OTT

F. B 2646 Pg. 207

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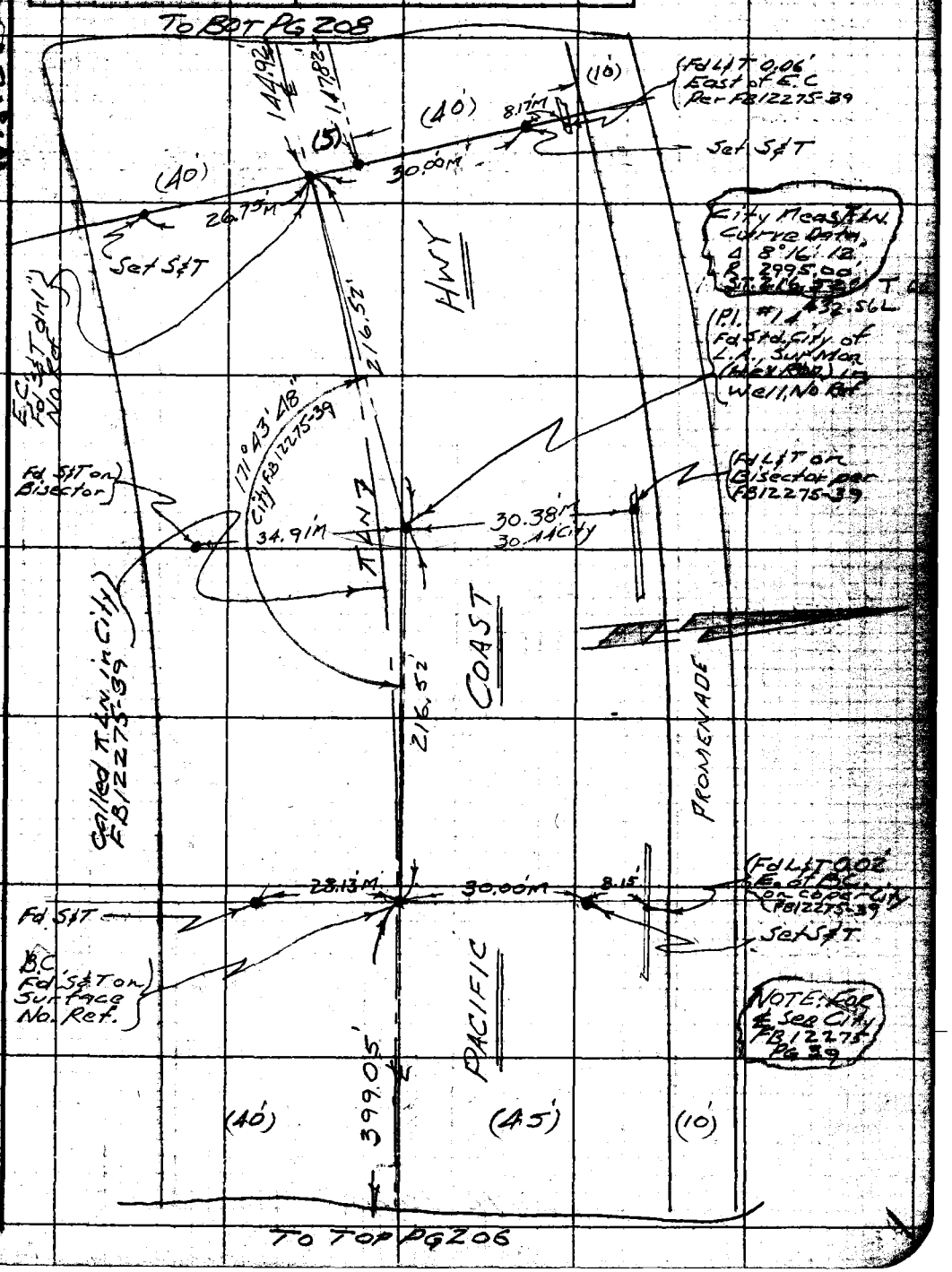
76B09S CK #247—7-59



F. B. 2646 PG. 208

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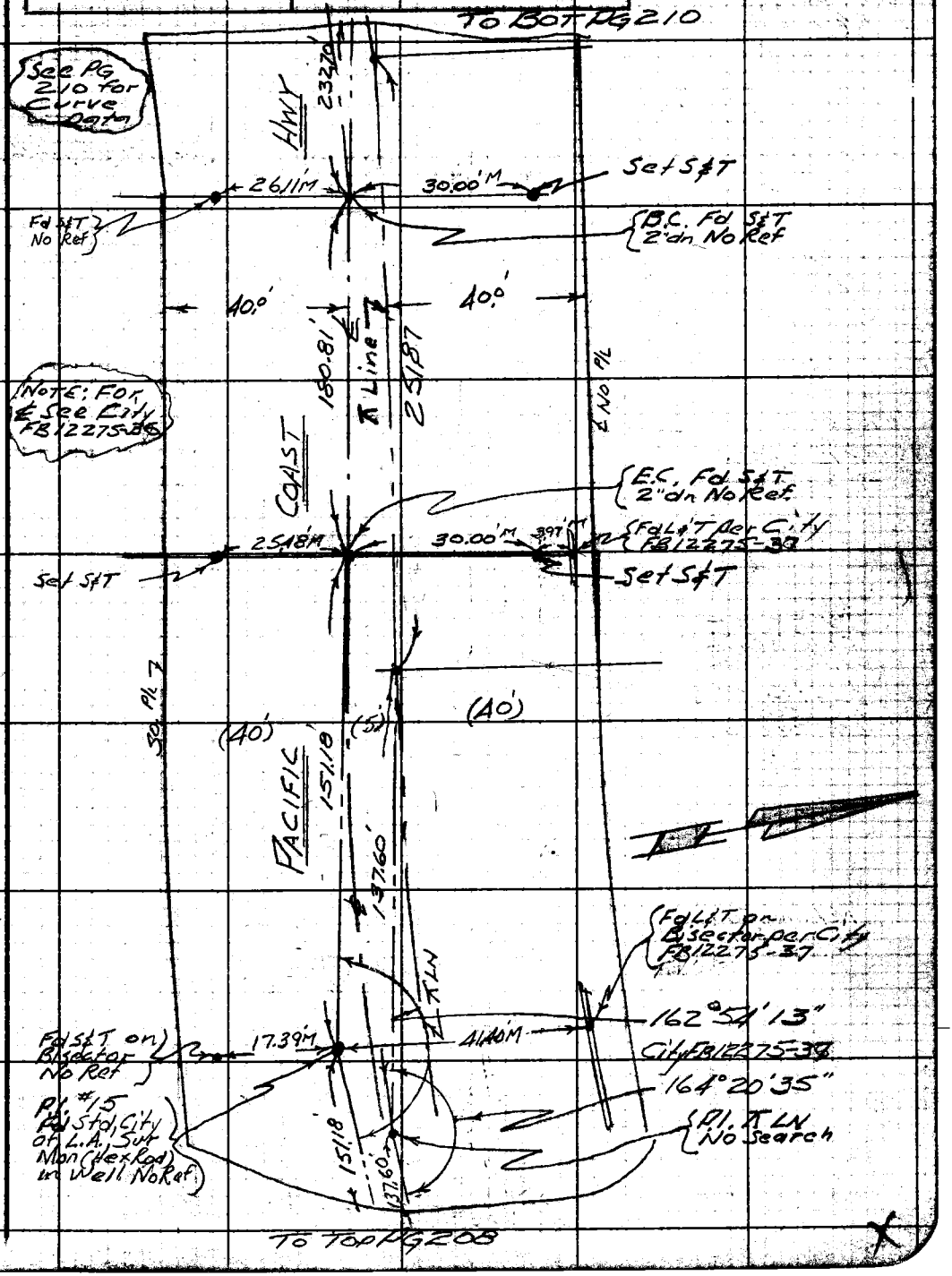
Notes Ck'd by	Survey of Wtr. Works Dist. #29
Map No.	JN 529416 Tape Std °F
Office Work	Surveyed by Mankey Jr.
Checked	Notes ETM Jr. Date 7-6-60
Date	Indexed H. E. OTT

F. B 2646 PG. 209



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763098 CE #247—7-55

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W.S. 58 - B-5

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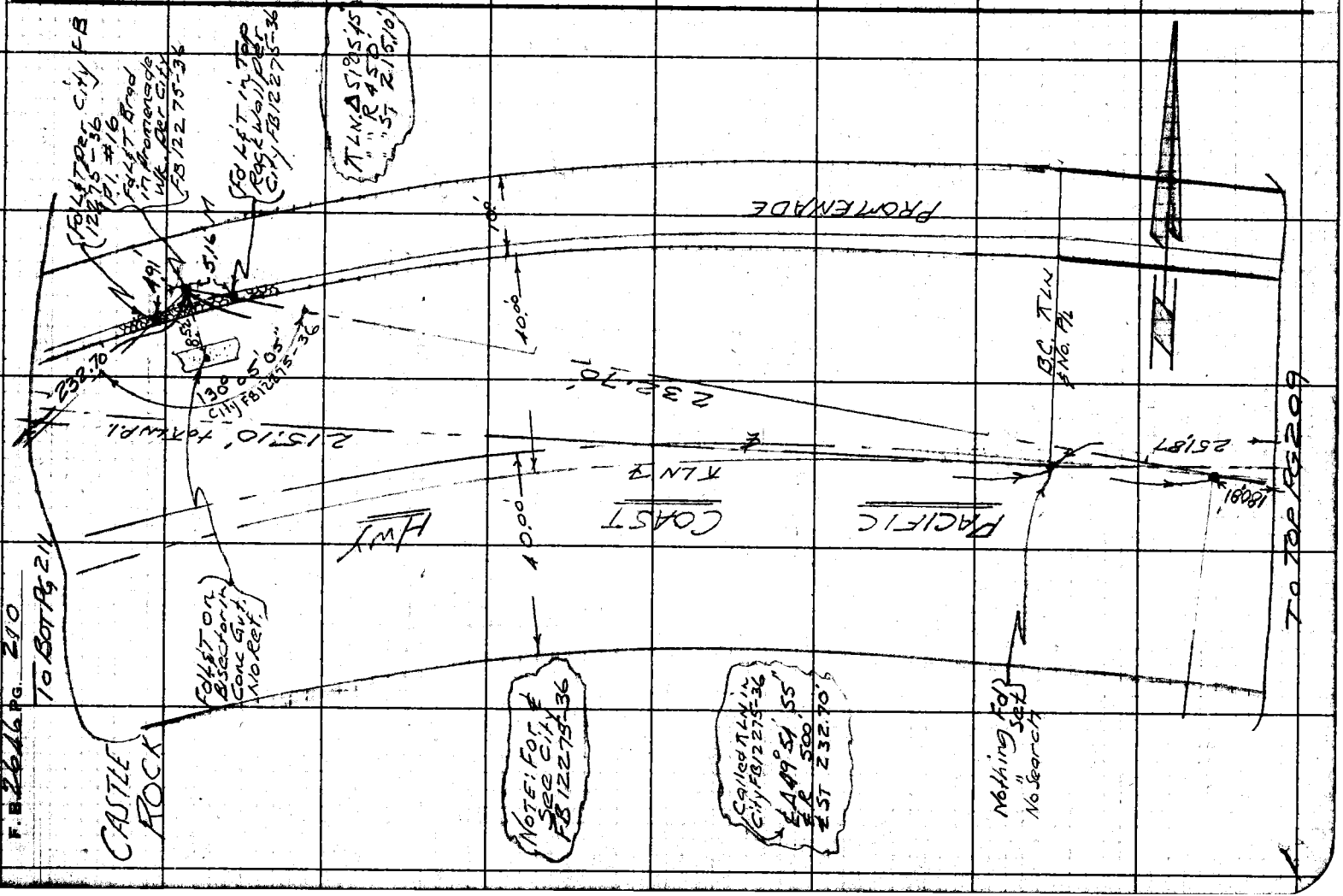

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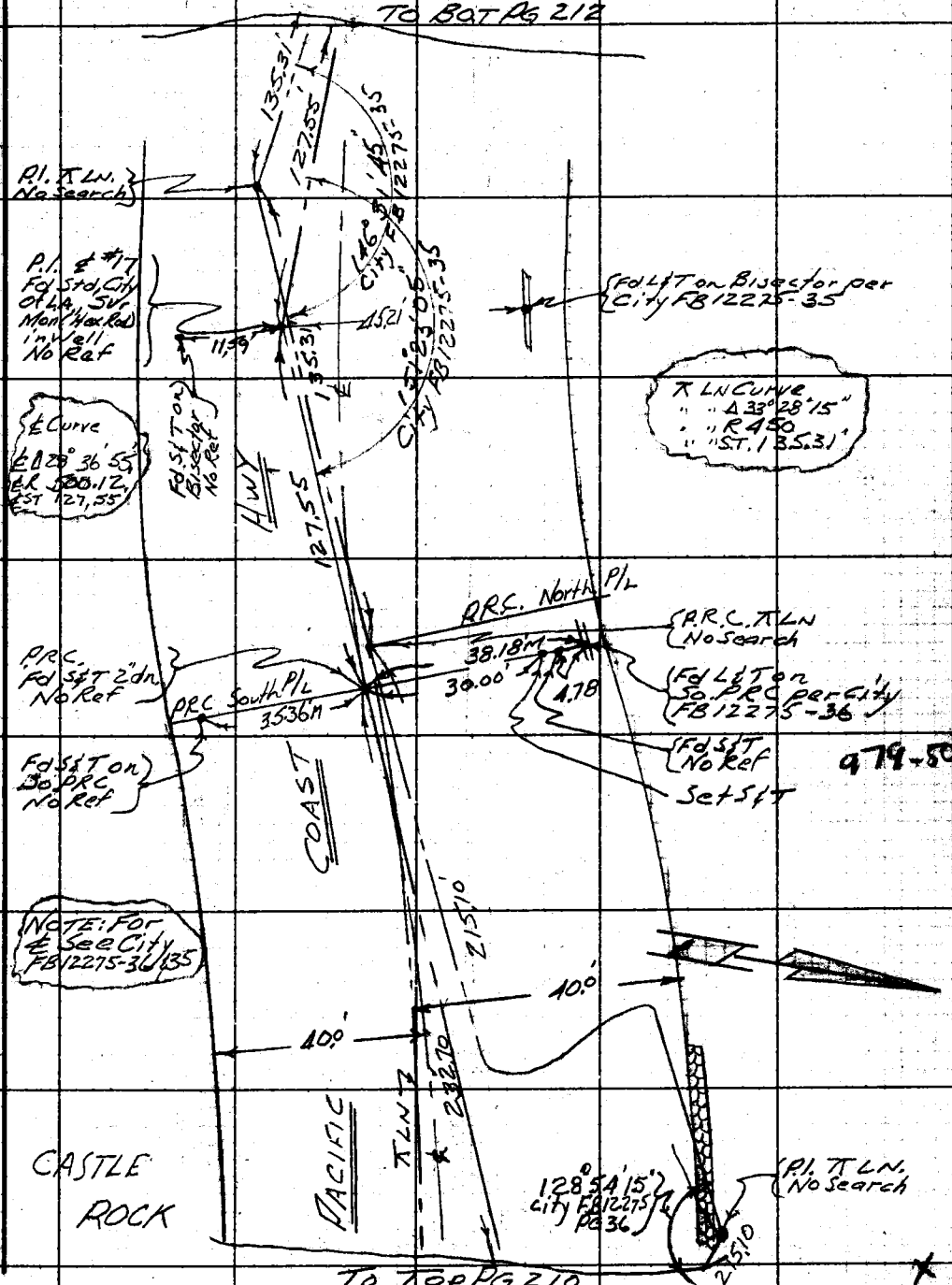
Map No.	JN 29116 Tape Std °F
Office Work	Surveyed by Mankey Jr.
Checked	Notes E.T.M. Jr. Date 7-7-'60
Date	Indexed H. E. OTT

F. B. 2646 Pg. 211

TO BOT PG 212



TO TOP PG 210

979-50

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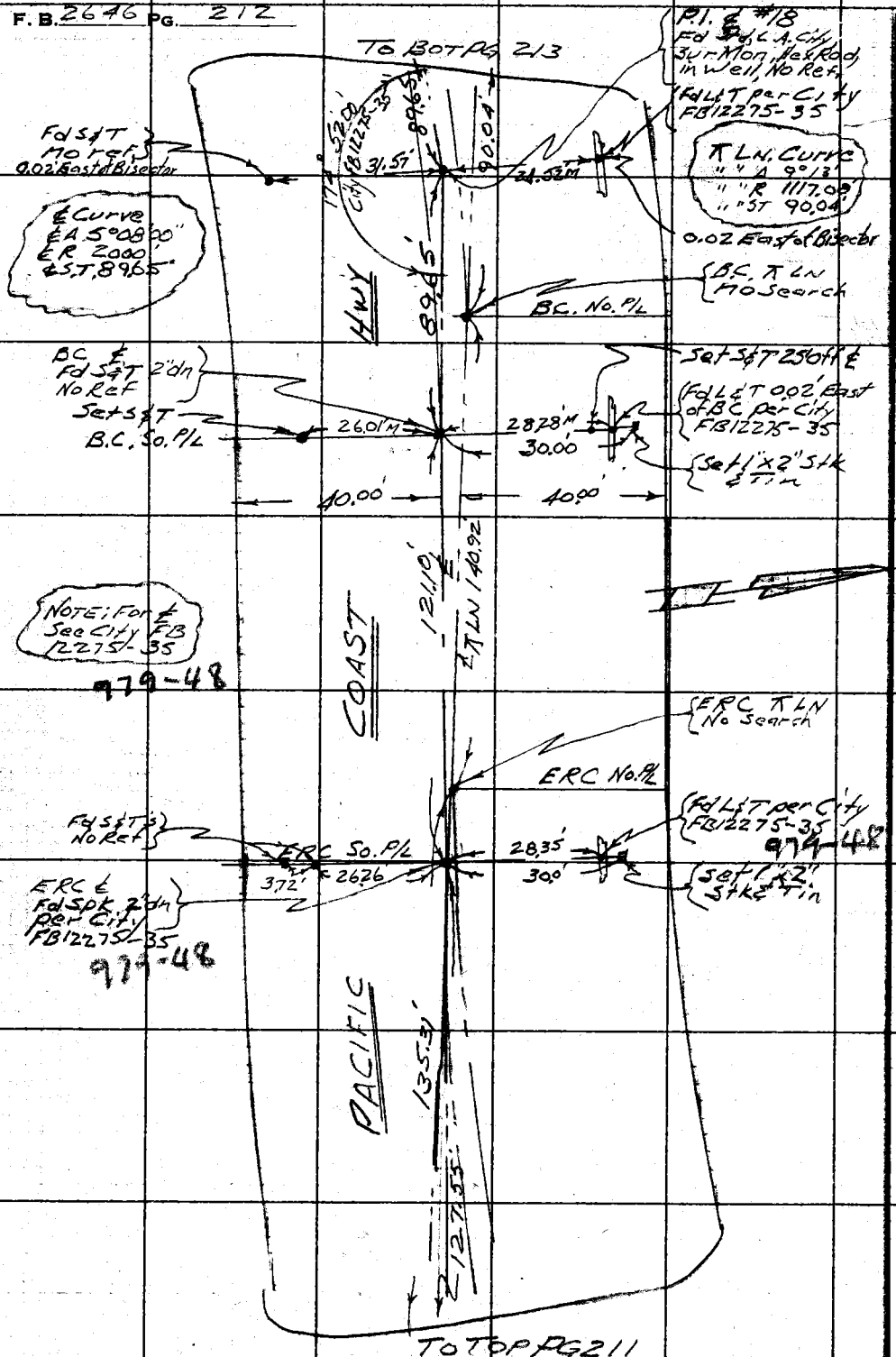
763098 CE #247—7-63

F. B. 2646 Pg. 212



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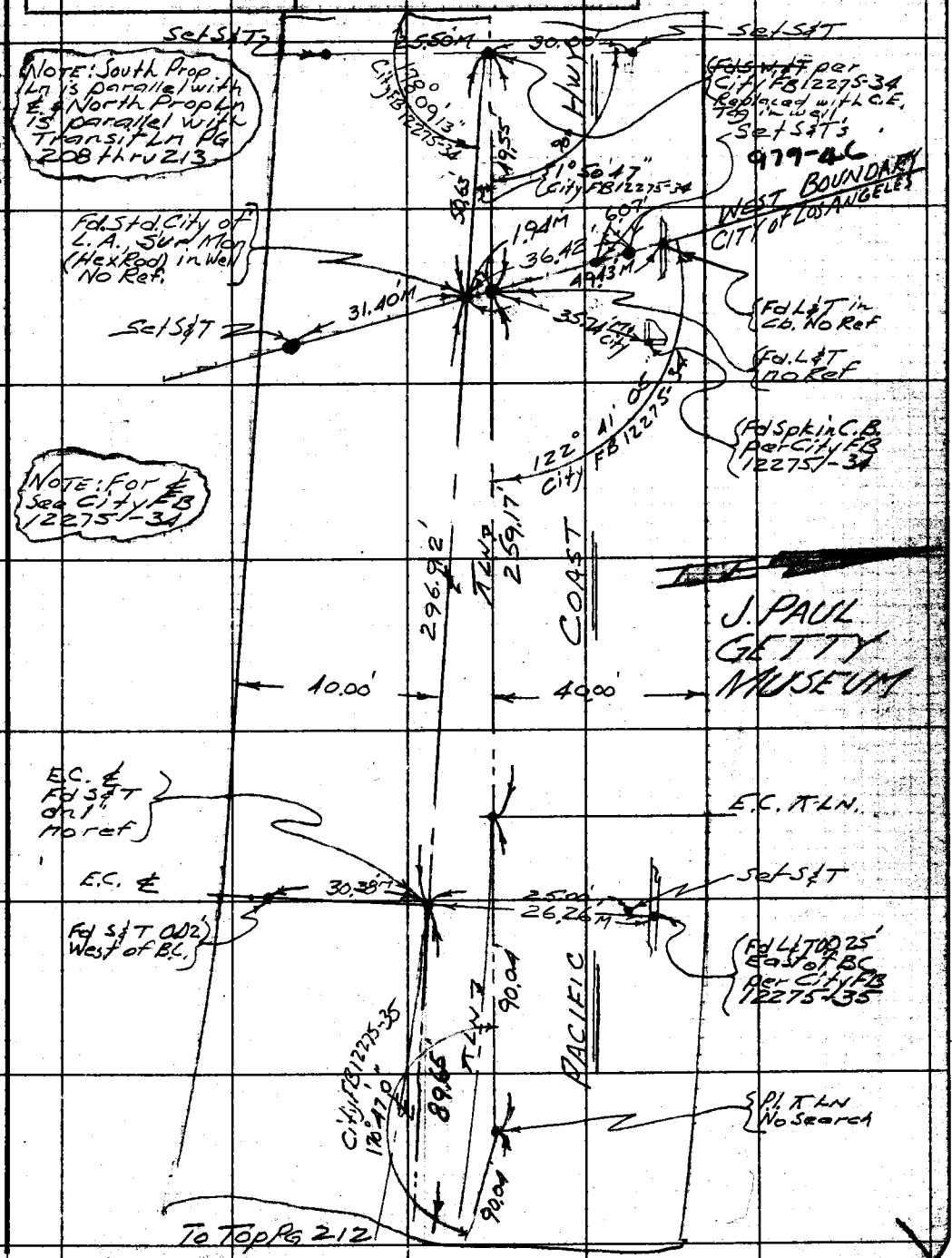
Notes Ck'd by	Survey of Wtr Works Dist #29
Map No.	JN 5294.16 Tape Std °F
Office Work	Surveyed by Mankey Jr.
Checked	Notes ETM Jr. Date 7-7-60
Date	Indexed H. E. OTT

F. B. 2646 PG. 213

W.S. 58-B-5



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763095 CE #247—7-53

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F. B. 2646 PG. 214

Notes Ck'd by	Survey of W.W. Works Dist 29 F. B. 2646 Pg. 215
Map No.	JN 5294.16 Tape Std °F
Office Work	Surveyed by Mankey Jr.
Checked	Notes Voge Date 7-5-60
Date	Indexed H. E. OTT JUL 5 '60

JN 5294.16

WATER WORKS DISTRICT #29

TOPOGRAPHY

on

PACIFIC COAST HWY

From

P.C.C. West of Sunset BLVD. 136+40.06

to

WEST BOUNDARY of the

CITY of LOS ANGELES 172+84.49

Mankey Jr.
Voge
Swann
L. Jones
Dover

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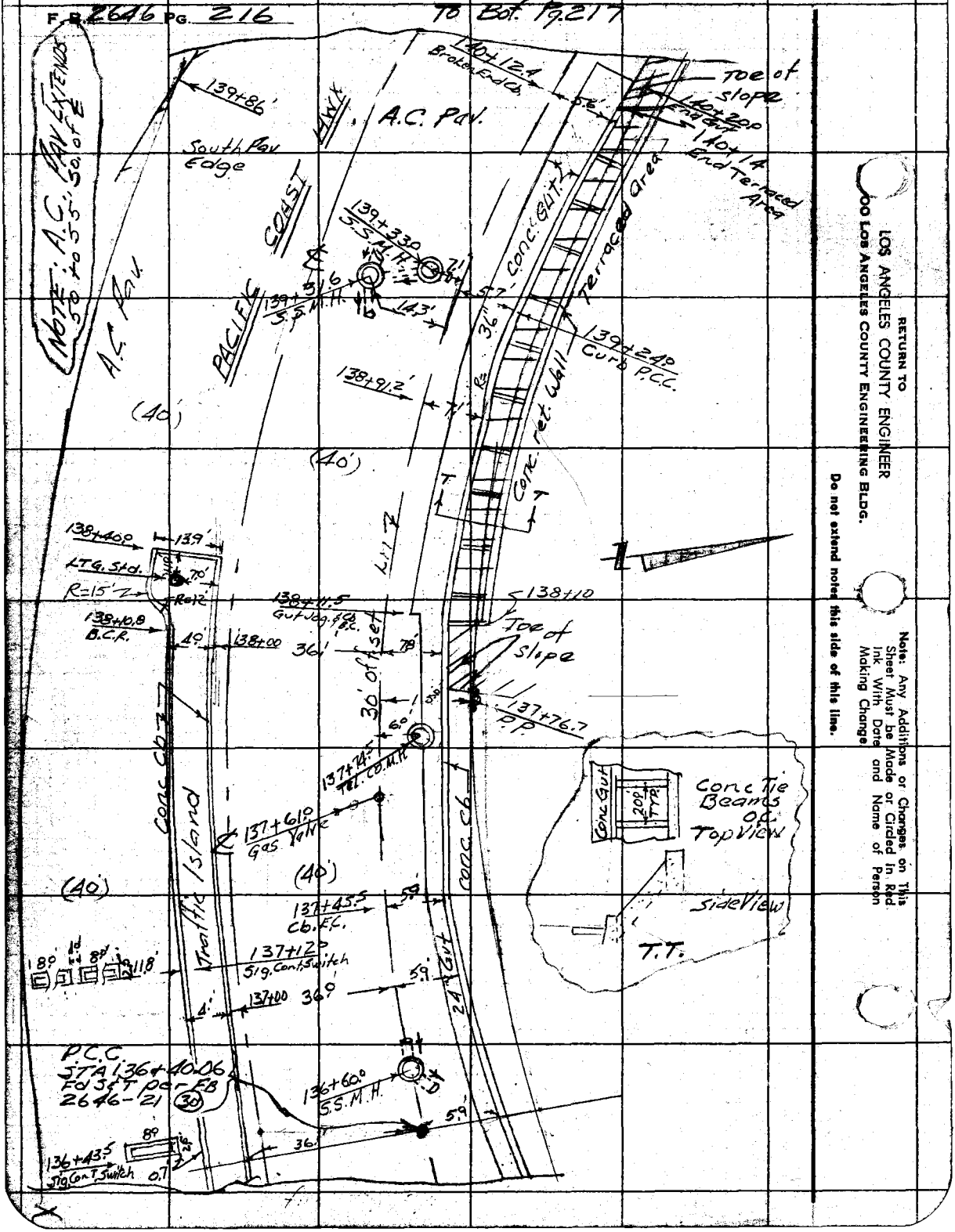
763098 CE #247—7-55

F.B. 2646 PG. 216

To Bot. Pg. 217



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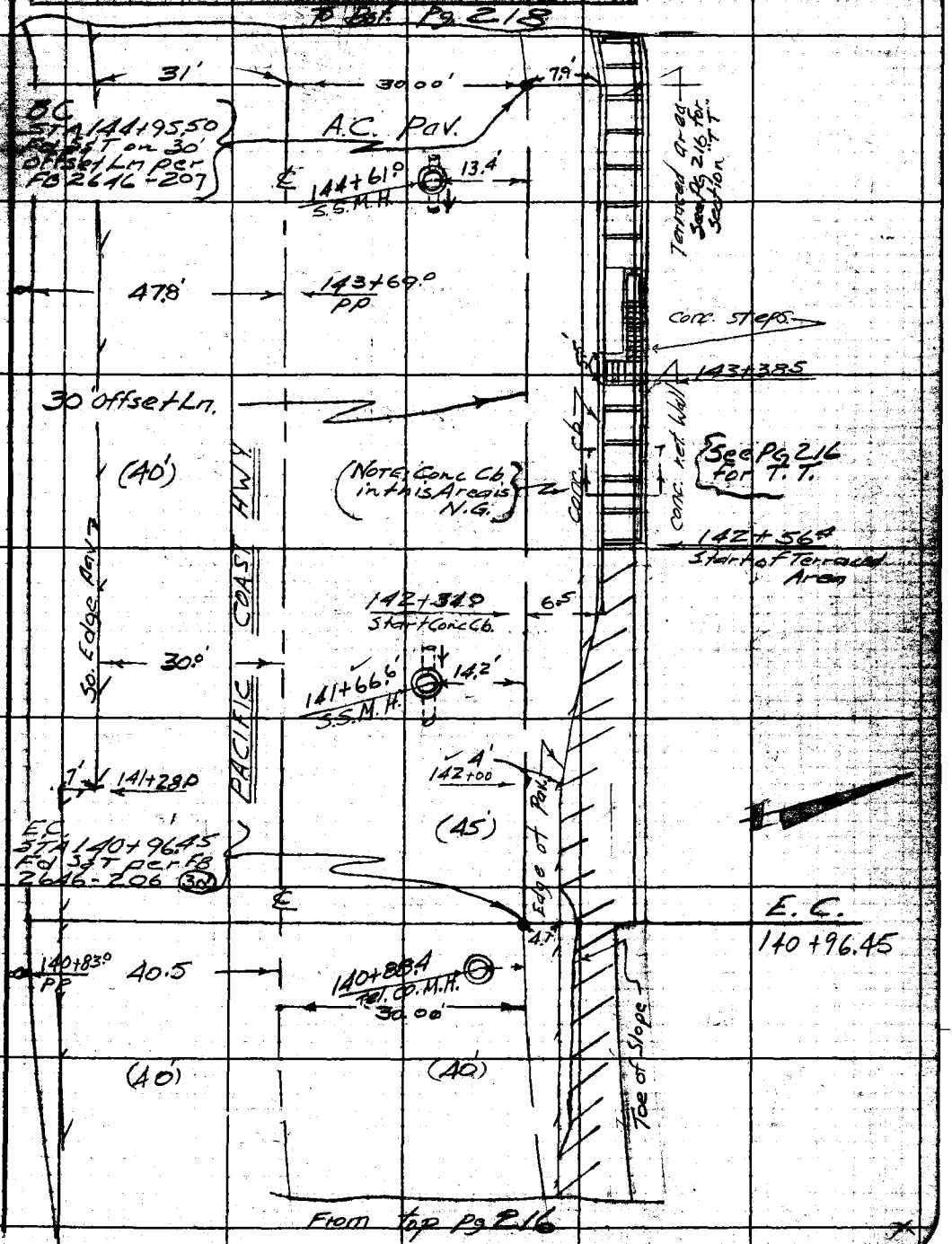
96.5
13.5

Notes Ck'd by	Survey of Wtr Works Dist #29
Map No.	Tape Std °F
Office Work	Surveyed by Mankey Jr.
Checked	Notes ETM Jr. Date 7-11-60
Date	Indexed H. E. OTT

F. B. 2646 Pg. 217



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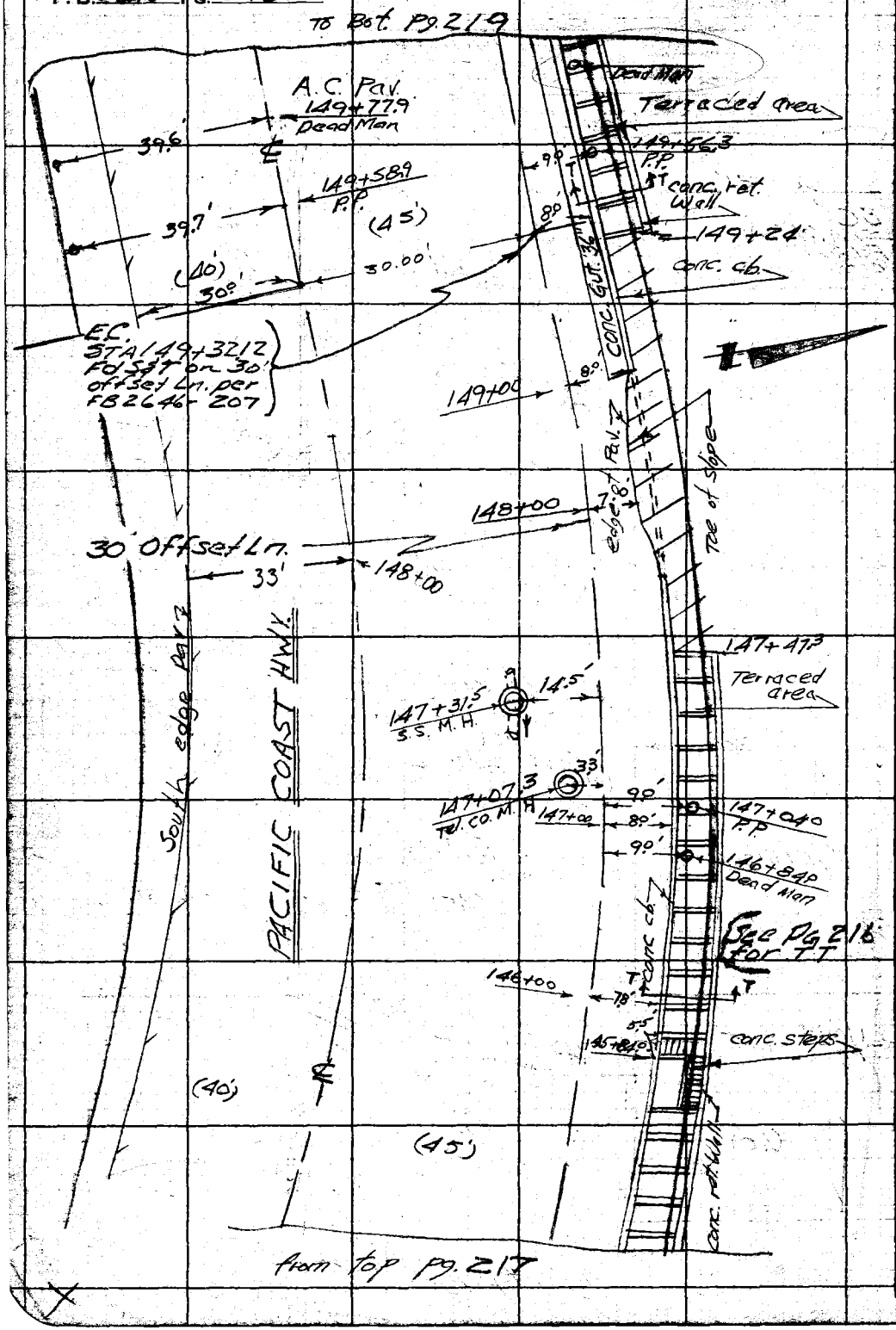
769098 CE #247—7-

F.B. 2646 PG. 218



RETURN TO
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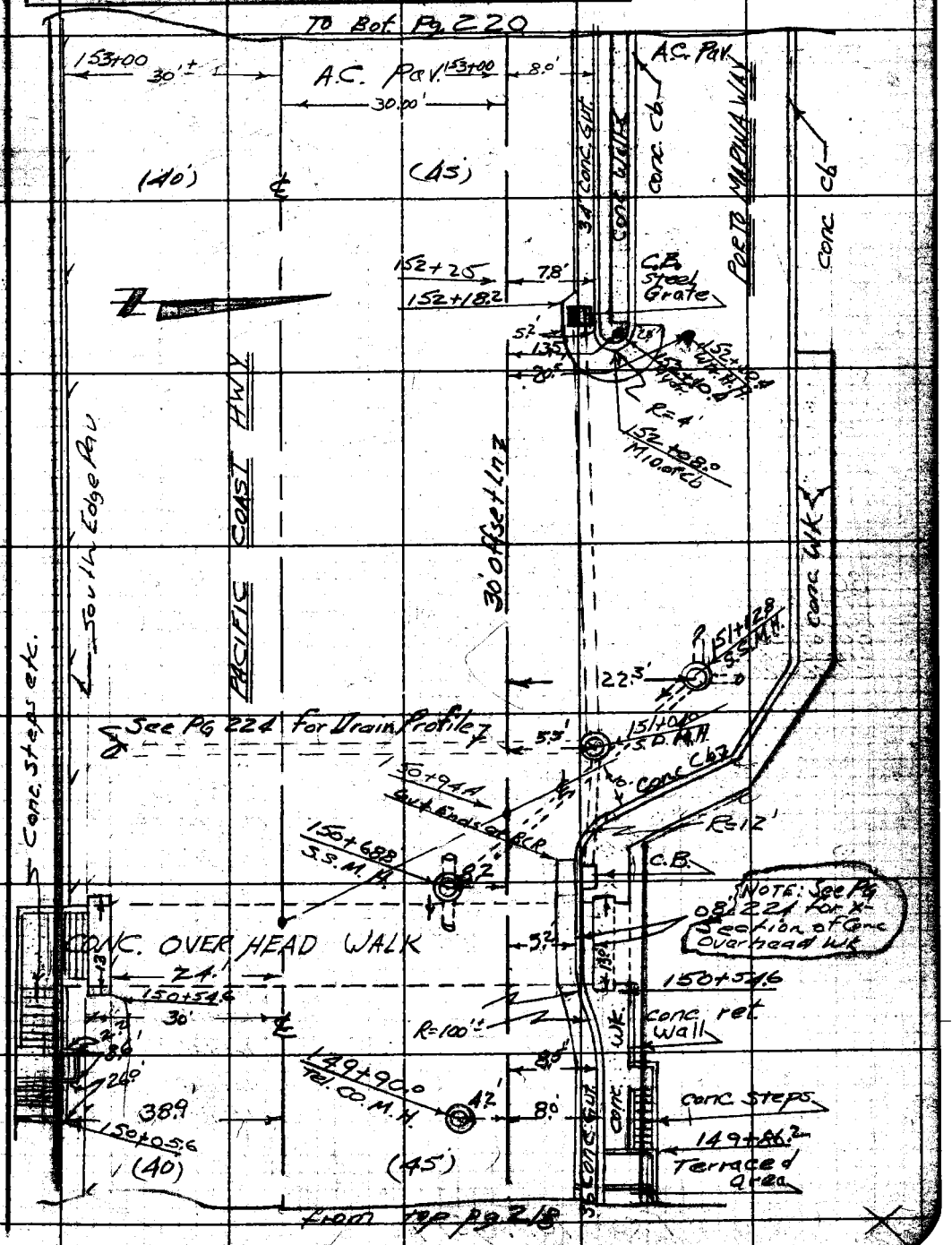
Notes Ck'd by	Survey of Wtr Works Dist 29
Map No.	JN 529416 Tape Std °F
Office Work	Surveyed by Mankey Jr.
Checked	Notes Page H. E. OTT Date 7-14-60
Date	Indexed

F. B. 2646 PG. 219



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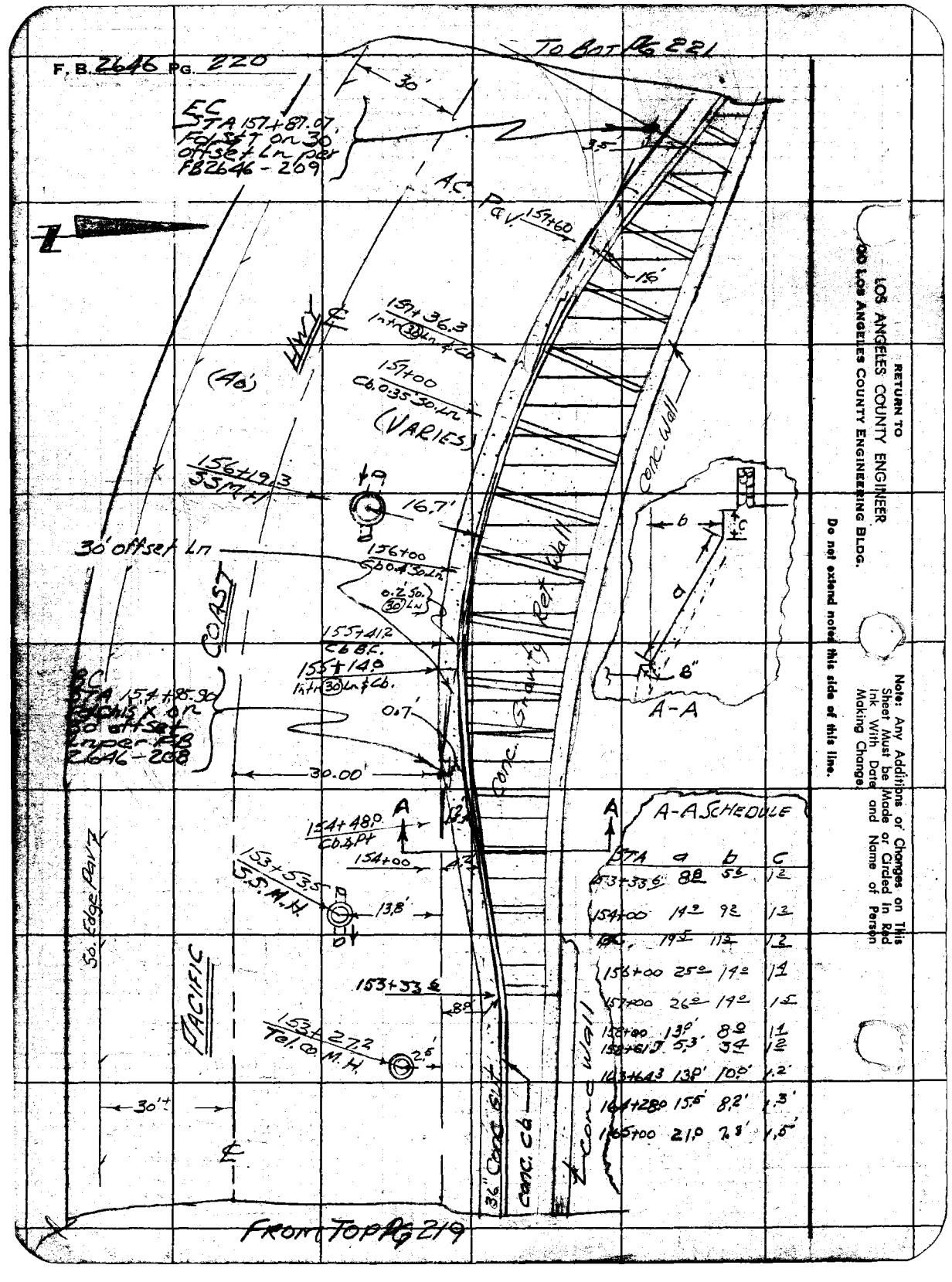
763098 CE #247—7-58

F. B. 2646 PG. 220



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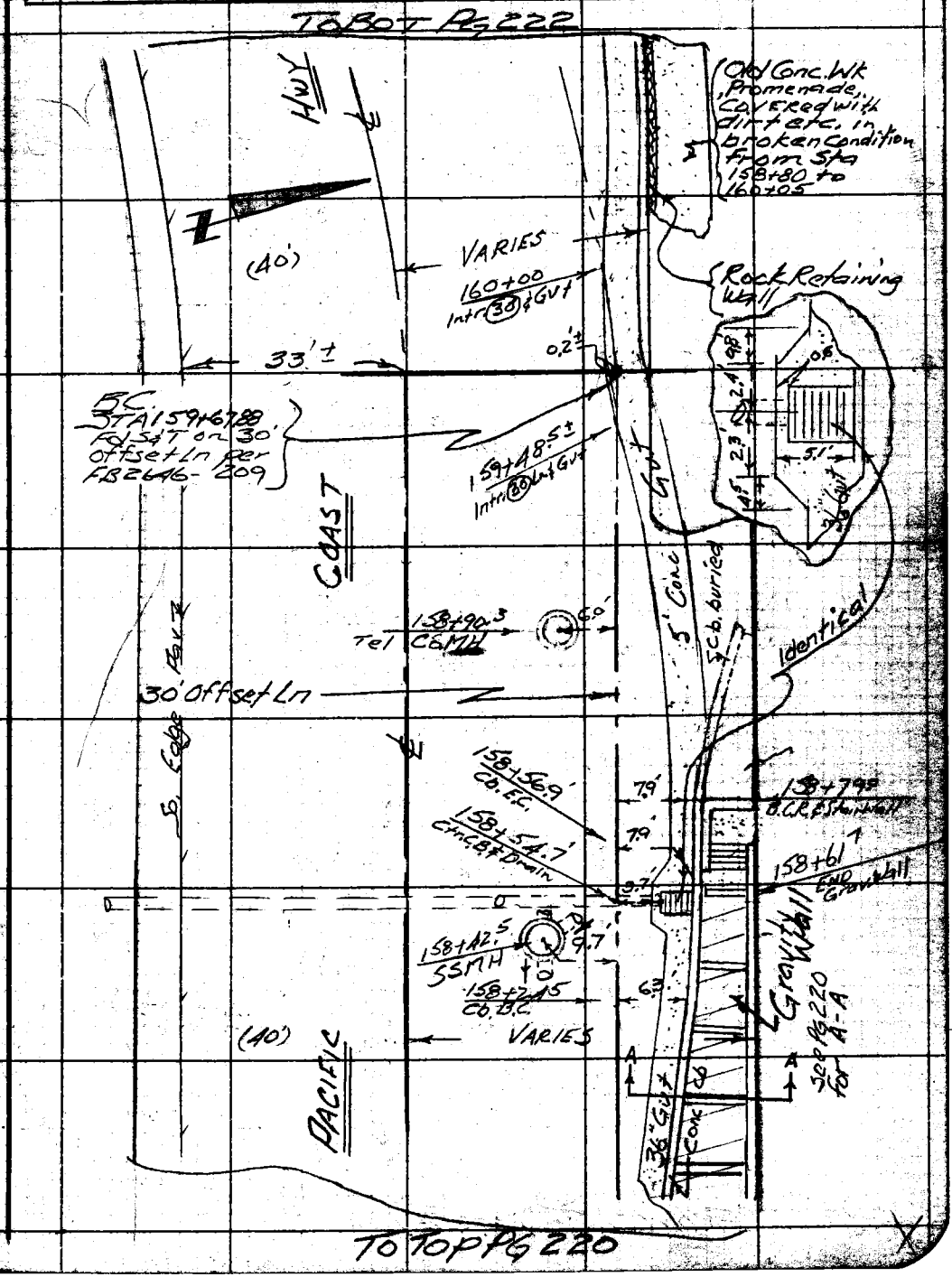
Notes Ck'd by	Survey of Wtr Works Dist #29
Map No.	Tape Std °F
Office Work	Surveyed by Mankey Jr.
Checked	Notes [illegible] Date 7-15-60
Date	Indexed

B. E. ON

F. B. 2646 Pg. 221



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763095 CE #247—7-53

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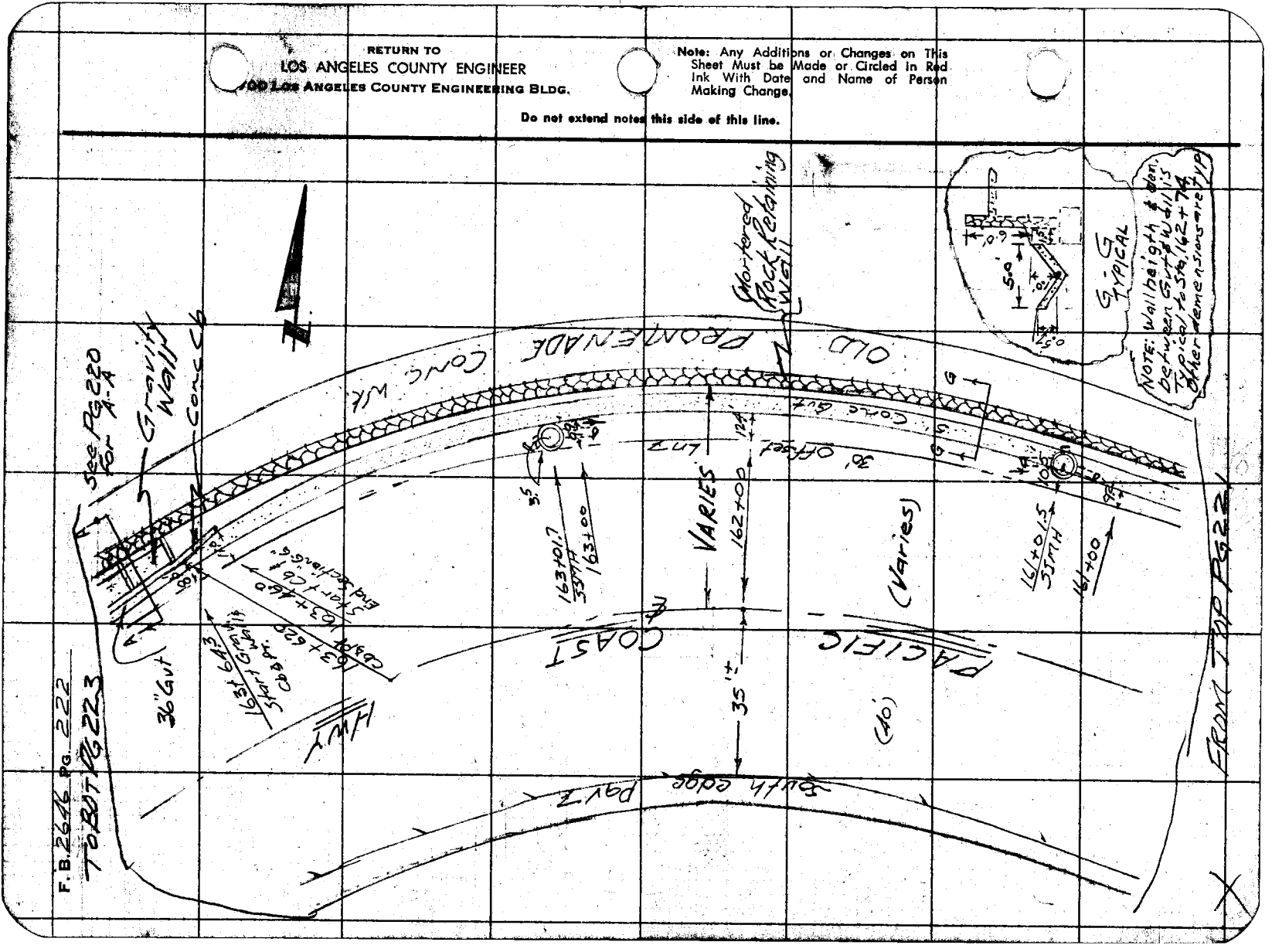
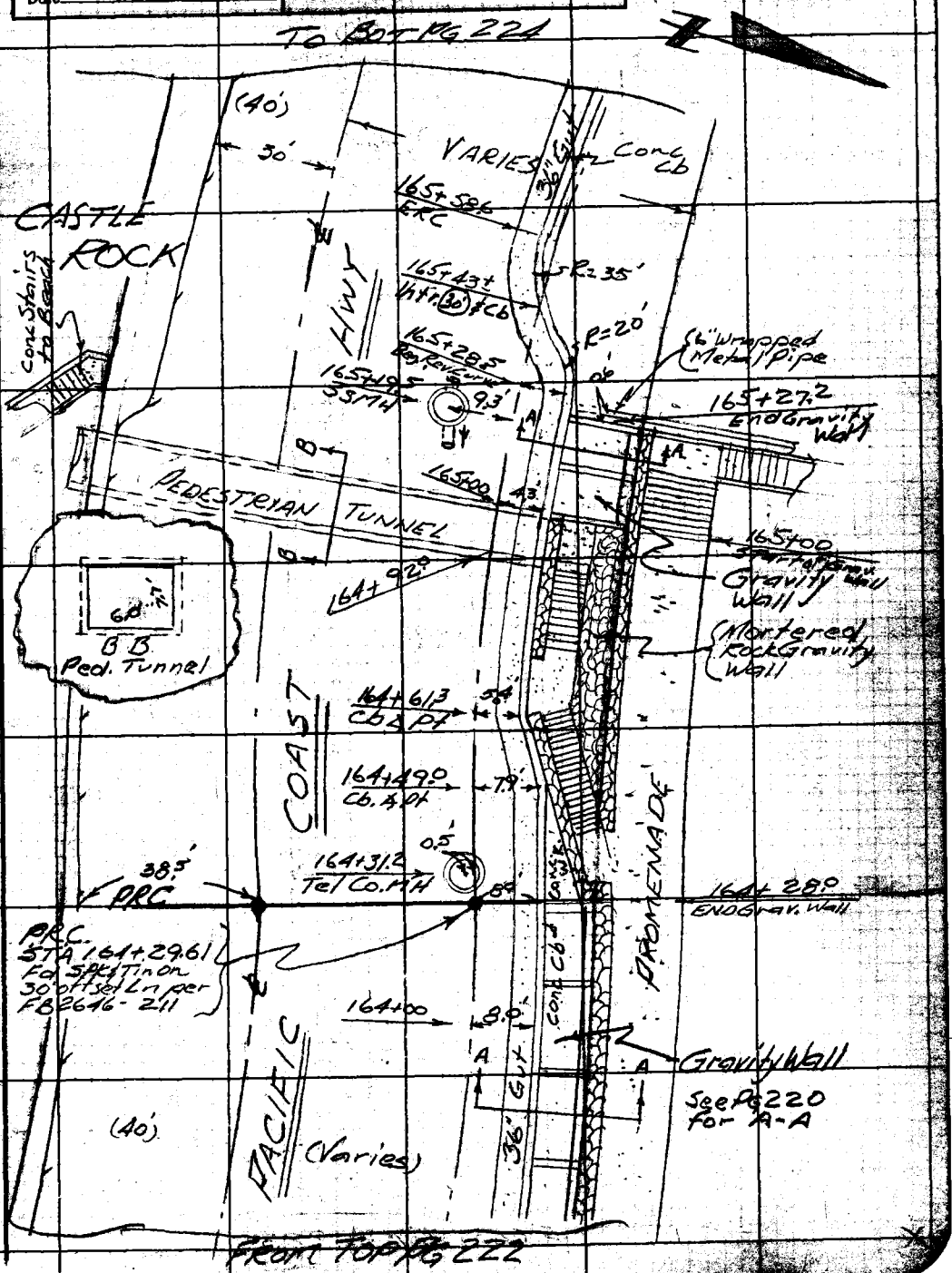


Notes Ck'd by	Survey of Wtr Works Dist 29
Map No.	Tape Std °F
Office Work	Surveyed by Mankey Jr.
Checked	Notes ETM Jr. Date 7-15-60
Date	Indexed H. E. OTT

F. B. 2646 PG. 223



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763098 CE #247—7-59

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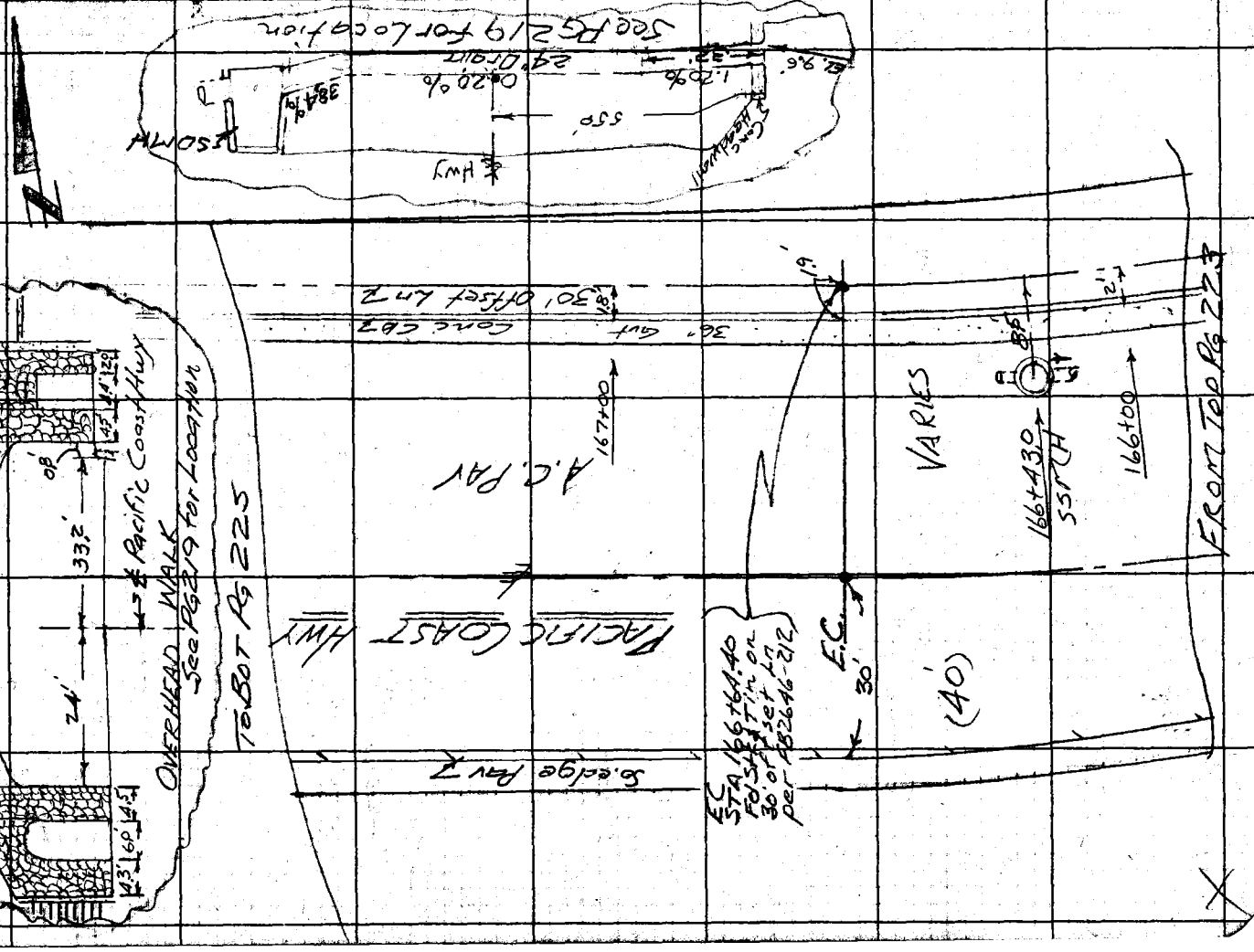
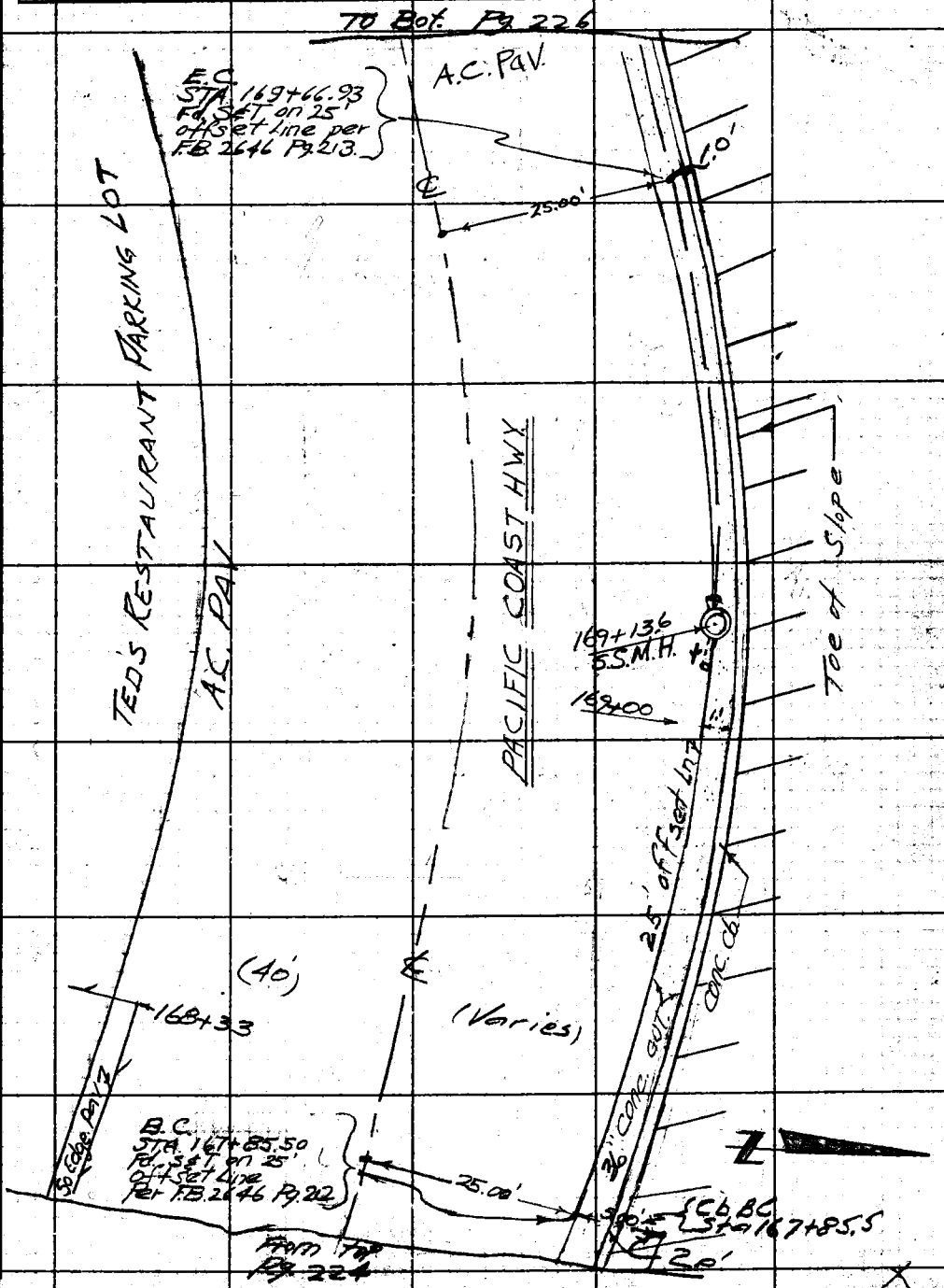


Notes Ck'd by	Survey of Wtr. Works Dist #29
Map No.	JN 5294.16 Tape Std °F
Office Work	Surveyed by Mankey Jr
Checked	Notes Voge Date 7-15-60
Date	Indexed B. E. OTT

F. B. 2646 Pg. 225



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763098 CE #247—7-53

F. B. 2646 Pg. 226

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Notes Ck'd By	Survey of Wtr. Works Dist #29
Map No.	JN 5294.16 Tape Std °F
Office Work	Surveyed by Mankey Jr.
Checked	Notes Vogt Date 7-[illegible]-60
Date	Indexed H. E. OTT

F. B. 2646 PG. 227

JN 5294.16

WATER WORKS DISTRICT #29

LOCATION OF

TRAFFIC LINES

from

SUNSET BLVD. to WEST BOUNDARY

of

CITY of LOS ANGELES

Mankey Jr.
Vogt
S. Wann
L. Jones
Dover

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7890S CE #247—7-59

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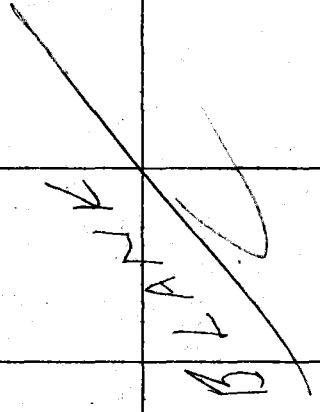
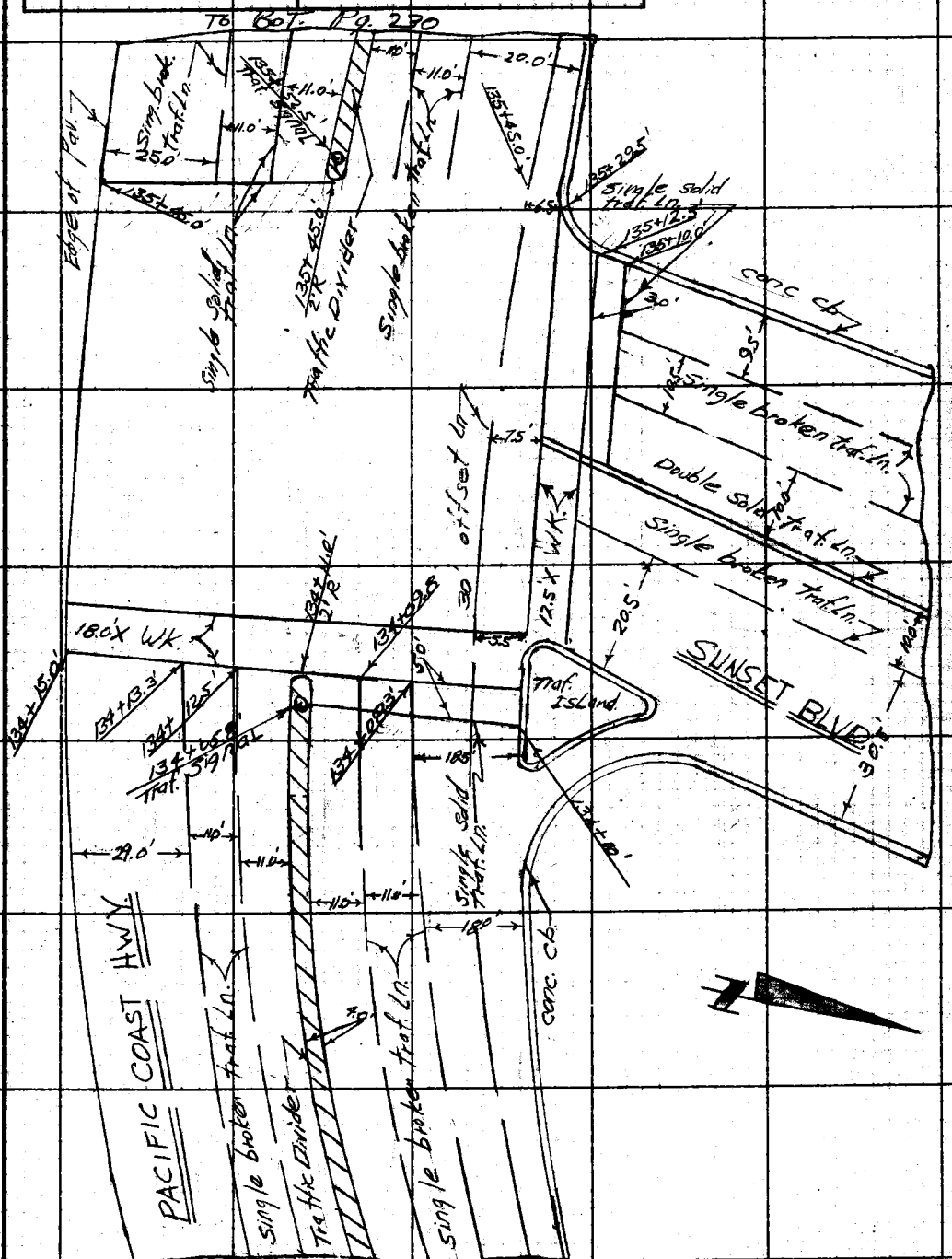


F.B. 2646 PG. 228

Notes Ck'd by	Survey of Water Works Dist #29
Map No.	JN 5294.16 Tape Std °F
Office Work	Surveyed by Mankey Jr.
Checked	Notes Vogel Date 7-1-60
Date	Indexed H. E. OTT

F. B. 2646 PG. 229



From top Pg. 228

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763095 CE #247—7-53

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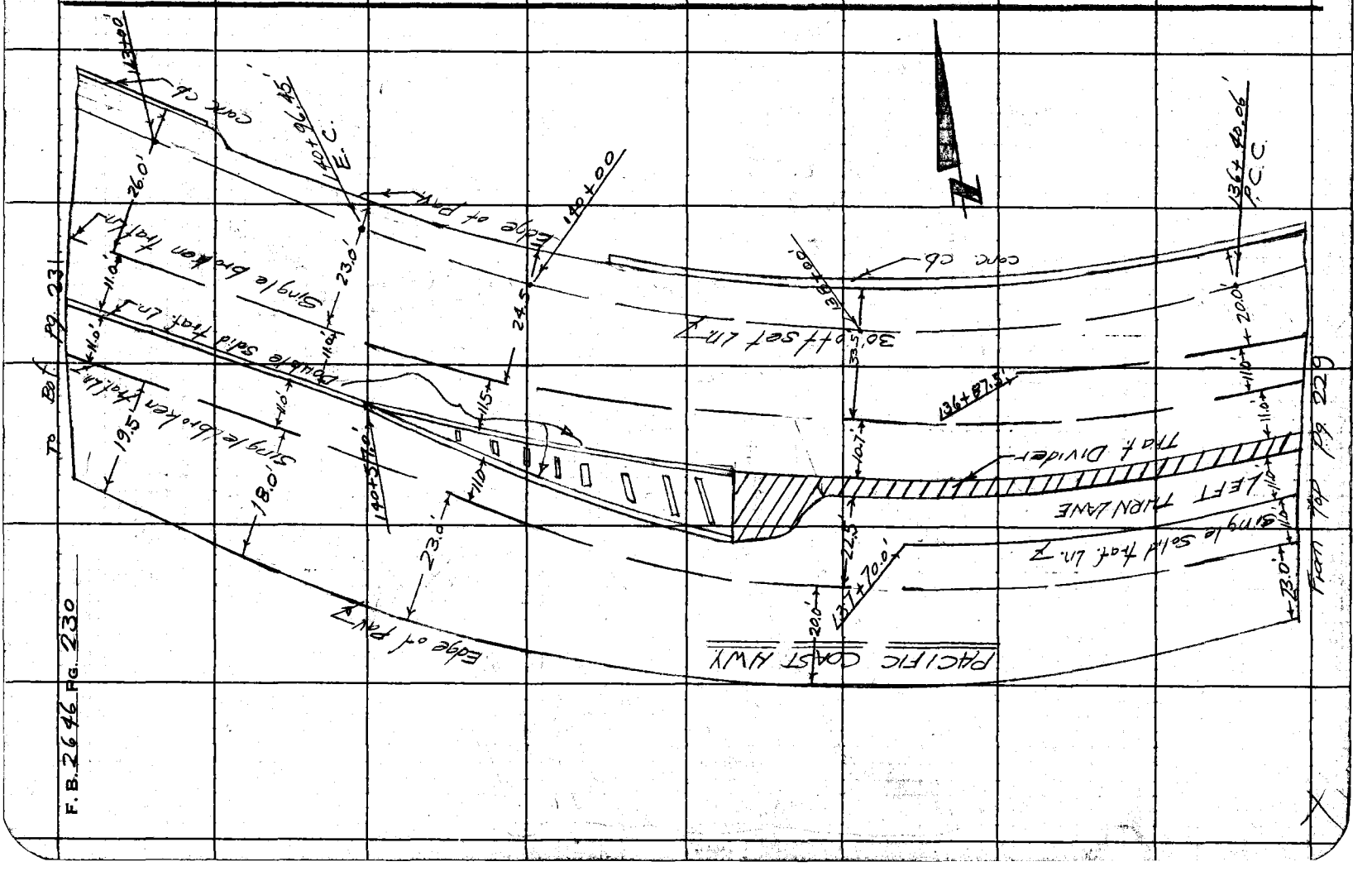
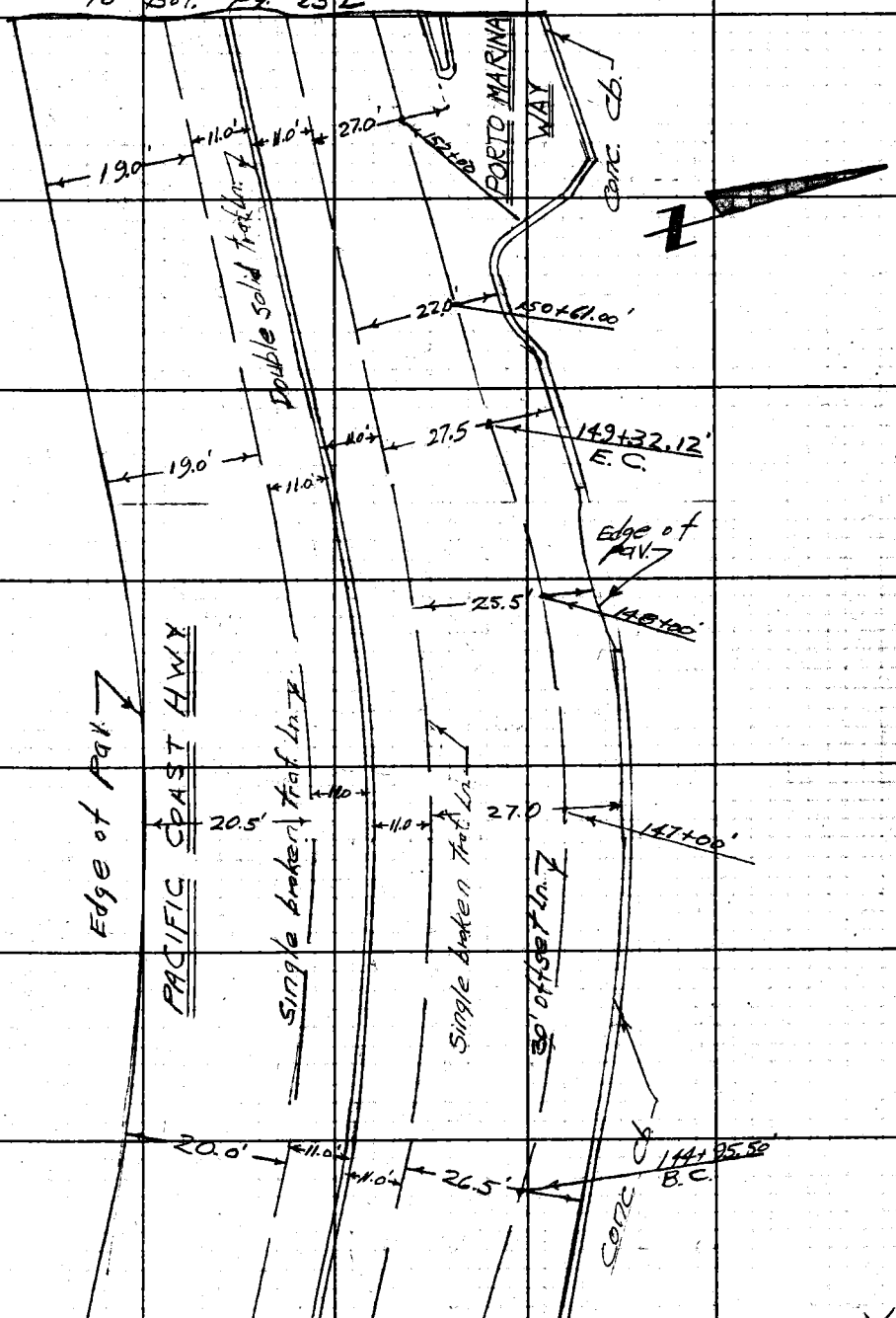


Notes Ck'd by	Survey of Wtr. Works Dist #29
Map No.	JN 5294.16 Tape Std °F
Office Work	Surveyed by Manky Jr.
Checked	Notes Voge Date 7-15-60
Date	Indexed H. E. OTT

F. B. 2646 PG. 231

To Bot. Pg. 232



From top Pg. 230

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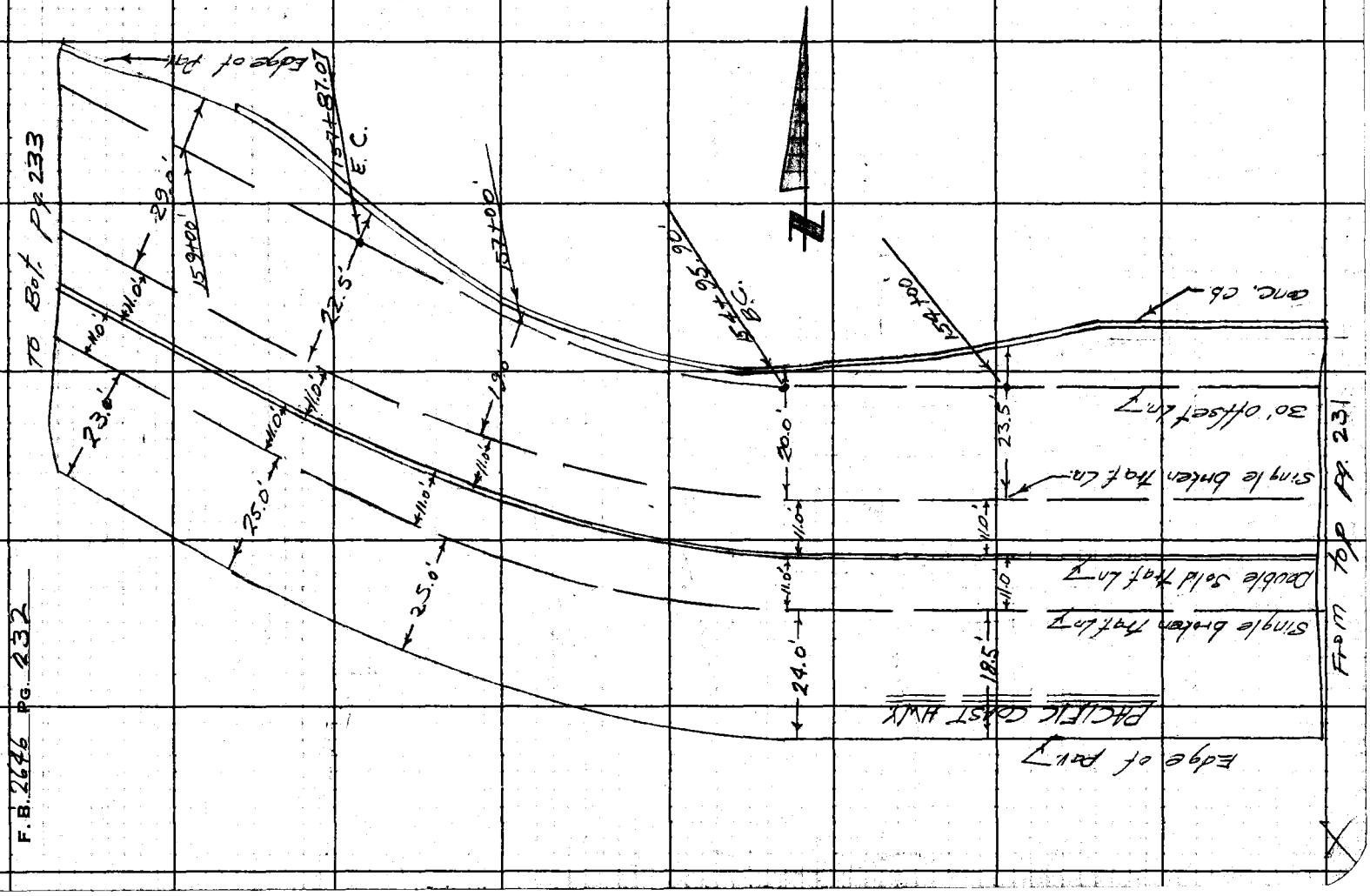
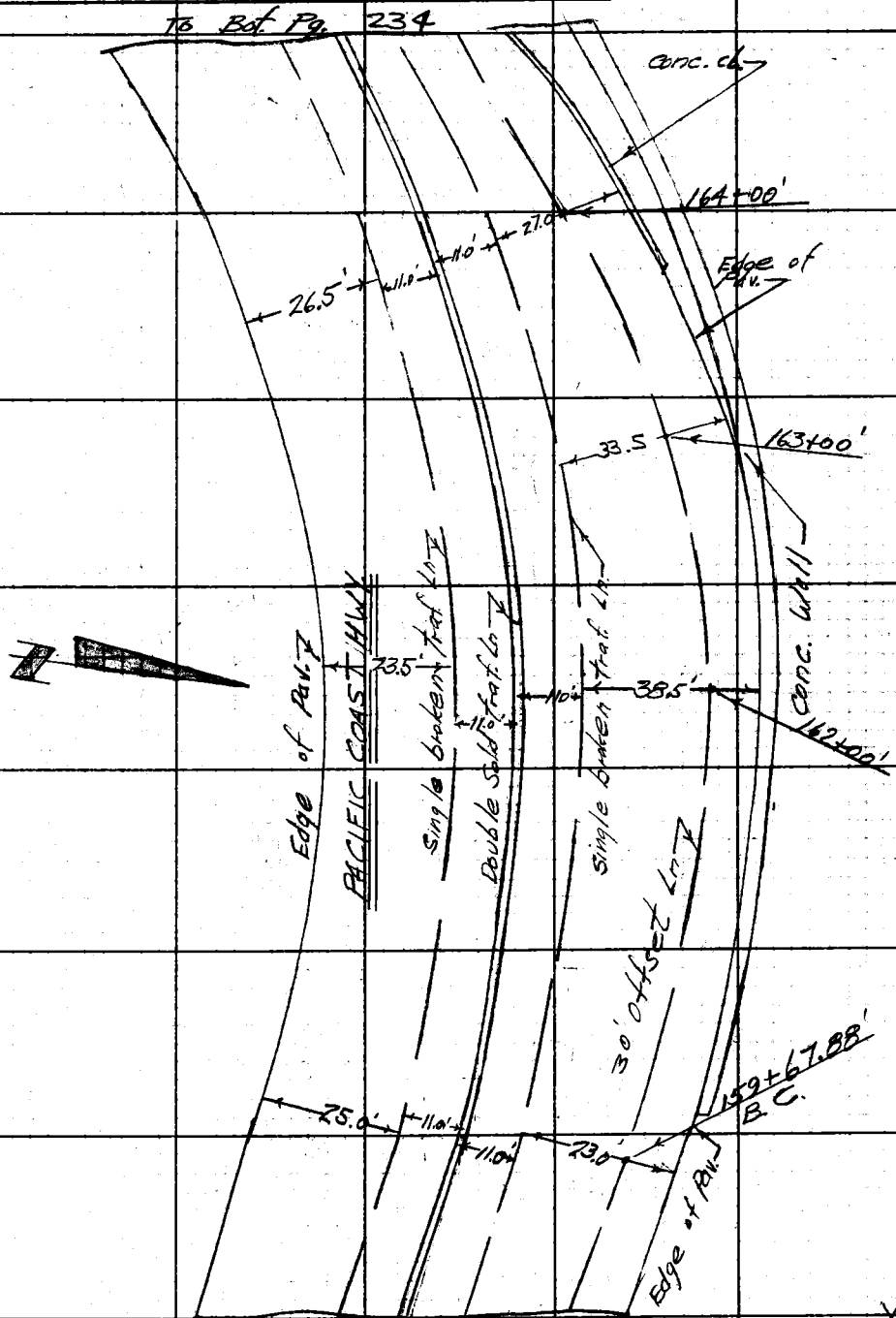


F.B. 2646 PG. 232

Notes Ck'd by	Survey of Wtr. Works Dist #29
Map No.	JN 5294/6 Tape Std °F
Office Work	Surveyed by Mankey Jr.
Checked	Notes Voge Date 7-15-60
Date	Indexed H. E. OTT

F. B. 2646 PG. 233



From Top Pg. 232

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763098 CE #247—7-53

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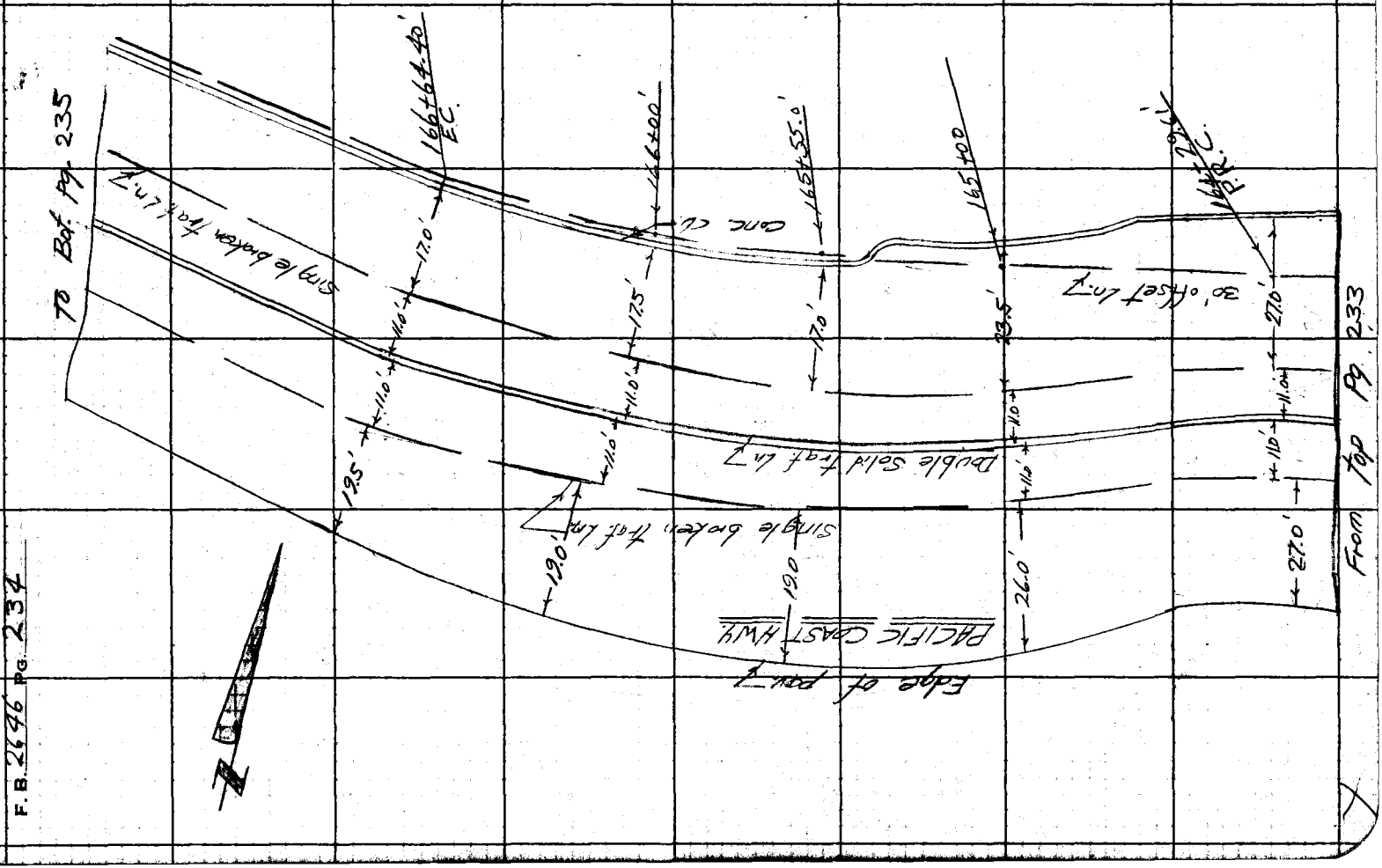
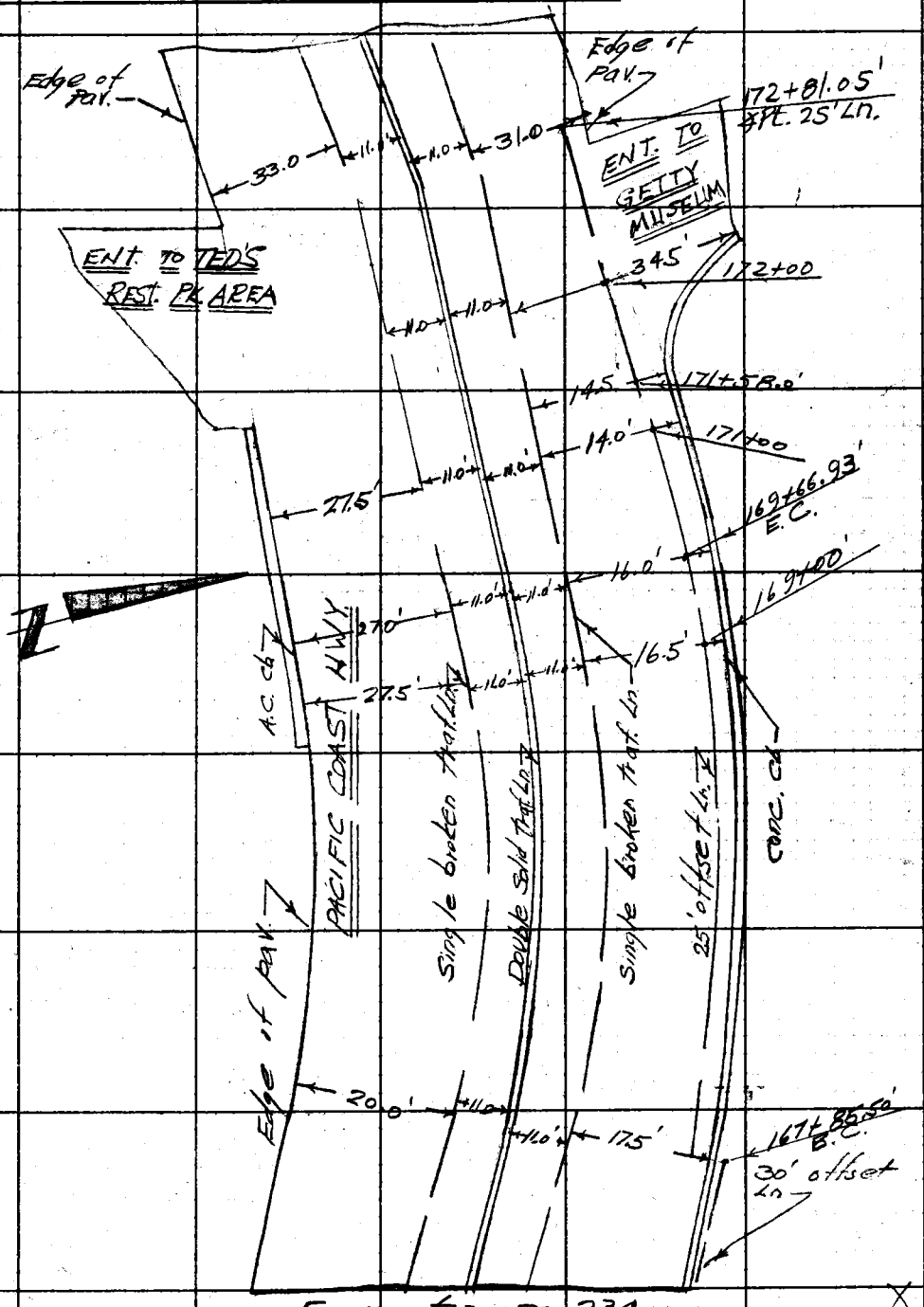


F.B. 2446 PG. 234

Notes Ck'd by	Survey of Utility Works Dist #29
Map No.	JN 5294 K Tape Std °F
Office Work	Surveyed by Markey Jr.
Checked	Notes Yoge H. E. Ott Date 7-15-66
Date	Indexed

F. B. 2646 PG. 235



From top pg. 234

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763095 CE #247—7-59

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F. B. 2646 PG. 236

F. B. 2646 Pg. 237

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 52946 Division No. ____
Date ____ Date ____ Survey of Wtr. Works Dist. #29
X-Sec. No. ____ Notes Chkd. ____ Checked ____ Survey by Mankey Notes Etrd. Date 7-18-60
Date ____ Date ____ Map No. ____ Indexed H. E. OTT Date JUL 25 '60

JN 52946

WATER WORKS DISTRICT #29

X-SECTIONS
on
PACIFIC COAST HWY
from
P.C.C. WEST of SUNSET BLVD
to
WEST BOUNDARY LINE of
THE CITY of LOS ANGELES

Mankey Jr.
Voge
Swann
L. Jones
Dover

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

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76L-298 S & E #307—1-56

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.	PACIFIC COAST HWY	
					LT & SO	⊼ (30) Ln RT & NO.
				17.90'	BM 48-53 EL 17.904' FB 1369-46 CITY of L.A. 106,96-17, STD. SUR. MON. on Approximate ℄ Intr. of Pacific Coast Hwy & Sunset Blvd.	
134+41.0	West end Traf. Isl.			19.68'	37.8' Cb	
"				19.26'	" Gut	
"				19.5'	70' pav.	
134+78.88	Intr. (30) Ln & Sunset Blvd.			18.4'		⊼
"				19.0'	30' ℄ Hwy	
"				19.3'	70' pav.	
135+45.0	East end Traf. Isl.			19.52'	38' Cb	
"	" " " "			19.10'	" Gut	
136+40.06	P.C.C.			18.3'		⊼
"				17.75'		5.9' Gut
"				18.37'		" Cb
"				19.6'	36' Gut	
"				20.00'	" Cb	
"				20.11'	40' Cb.	
"				19.7'	" Gut	
"				20.5	70' pav	

Pg. 238

Job No. 5941 Division No. Notes Red. Plotted Profile
Survey of Wtr. Works Dist #29 Date Date No. X-Sec.
Survey by Ettm Notes Manley Jr. Notes Chkd. Checked
Indexed B. L. Ott Date Date Date No.

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.	PACIFIC COAST HWY	
					LT. & SO.	⊼ = (30) Ln. RT & NO
				Rim EL		
136+60P	SSMH			18.37		⊼ Rim
	INVERT on 15" Inlet on W.			9.31	9.06' Rim to flow Ln	15" Inlet
	" " " Outlet to E			9.28	9.09' " " " "	" Outlet
137+00				18.7		⊼
"				18.27		5.9' Gut
"				18.91		" Cb
"				20.1	36' Gut.	
"				20.57	" Cb.	
"				20.65	40' Cb.	
"				20.3	" Gut	
"				21.2	70' pav.	
138+00				19.6		⊼
"				19.17		7.8' Gut
"				19.89		" Cb
"				21.0	36' Gut	
"				21.38	" Cb	
"				21.47	40' Cb	
"				21.2	" Gut	
"				21.8	70' pav.	
T.P.				21.97		

Profile No. X-Sec. No. Notes Red. Date Notes Chkd. Date Plotted Date Checked Date Job No. 5294.16 Survey of Wtr. Works Dist #29 Survey by Manley Notes ETM Date 7-18-60 Map No. Indexed H. E. OIT Date Division No.

F. B. 2646 Pg. 239

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.	PACIFIC COAST HWY LT & So.	30 Lm. RT & No.
138+40°				21.3'	36' Gut	
"				21.71'	" Cb	
"				22.08'	50' Cb	
"				21.7'	" Gut	
139+00				20.4'		
"				20.21'		7.0' Gut
"				21.06'		" Cb
"				21.5'	30' ℄ Hwy	
"				22.4'	70'	
139+31.6	SSMH			Rim EL 21.41'	14.3' Rim	
INVERT on 8" Inlet on No.				10.82'	10.59' Rim to flow line	8" Inlet
" " 15" " " W				10.06'	11.35' " " " "	15" "
" " " Outlet to E				10.05'	11.36 " " " "	" Outlet
139+33.0	SSMH			Rim EL 21.22'	7.1' Rim	
INVERT on 8" Inlet on No.				11.48'	9.74' Rim to flow line	8" Inlet
" " " Outlet to So.				10.97'	10.25' " " " "	" Outlet
140+00				21.0'		
"				20.87'		5.6' Gut
"				21.62'		" Cb

F. B. 2646 PG. 240 Job No. 5294.16 Division No. Dist #29 Notes Red. Plotted Profile
Survey of Wtr. Works Dist #29 Date Date No. X-Sec.
Survey by ETM Jr. Notes Mankey Jr. Notes Chkd. Checked No.
Indexed H. E. OTT Date Date Date

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.	PACIFIC COAST HWY LT & SO.	↑ (30) Ln RT & NO
140+00				22.1'	30' ℄ Hwy	
"				22.4'	70'	
140+96.45	E.C.	(PG 217)		21.9'		↑
"				21.8'		4.7' edge pav ±
"				22.15'	30' ℄ Hwy	
"				21.9'	67' edge pav	
"				21.8'	70'	
141+66.6	SSMH			Rim EL 22.50'	14.2' Rim	
INVERT on 15" Inlet on West				10.75'	11.75' Rim to F.L.	15" Inlet
" " " Outlet to East				10.68'	11.82' " " " "	" Outlet
142+00				22.7'		↑
"				22.2'		4' edge pav
"				22.8'	30' ℄ Hwy	
"				22.1'	60' So. edge pav	
"				22.1'	70'	
142+34.0	Start Conc Cb			22.95'		6.5' Cb
143+00				22.70' 23.2'		↑
"				22.38'		6.7' Gut
"				23.15'		" Cb
"				23.0'	30' ℄ Hwy	

Profile Notes Red. ____ Plotted ____ Job No. 529416 Division No. ____ F. B. 2646 Pg. 241
No. ____ Date ____ Date ____ Survey of Wtr. Works Dist #29
X-Sec. Notes Chkd. ____ Checked ____ Survey by Mankey Notes Etrylo Date 7-18-60
No. ____ Date ____ Date ____ Map No. ____ Indexed H. E. OTT Date ____

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.	PACIFIC COAST HWY LT & So	⊼ = 30' Ln	RT & No.
143+00				22.0'	60' So. edge pav		
"				21.9'	70'		
144+00				23.3'		⊼	
"				22.34'			7.8' Gut
"				23.13'			" Cb
"				23.4'	30' ℄ Hwy		
"				22.4'	60' So. edge pav		
"				22.2'	70'		
144+61.0	SSMH			Rim EL 23.52'	13.4' Rim		
INVERT on 15" Inlet on West				11.73'	11.79' Rim to F.L.		15" Inlet
" " " Outlet to East				11.59'	11.93' " " " "		" Outlet
144+95.50	BC (PG 217)			23.4'		⊼	
"				22.66'			7.9' Gut
"				23.47'			" Cb
"				23.5'	30' ℄ Hwy		
"				22.6'	61 So edge pav		
"				22.5'	70'		
146+00				23.1'		⊼	
"				22.72'			7.8' Gut
"				23.48'			" Cb

F. B. 2646 Pg. 242
Job No. 529416 Division No. Notes Red. Plotted Profile
Survey of Waterworks Dist. #19 Date Date No. X-Sec.
Survey by E.T.M. Notes Monkey Jr. Notes Chkd. Checked
Indexed H. E. Oil Date Date Date No.

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.	PACIFIC COAST HWY	
					LT & So.	⊼ = (30) Ln. RT & No
146+00				23.4'	30' ℄ Hwy	
"				22.2'	62' So edge pav	
"				22.1'	70'	
147+00				22.9'	⊼	
"				22.37'		8.0' Gut
"				23.09'		" Cb
"				23.0'	30 ℄ Hwy	
"				21.7'	62' So edge pav	
"				21.7'	70'	
				Rim EL.		
147+31.5	SSMH			23.05'	14.5' Rim	
	INVERT on 15" Inlet on W.			12.40'	10.65' Rim to F.L.	15" Inlet
	" " " Outlet to E.			12.31'	10.74' " " " "	" Outlet
148+00				22.1'	⊼ ℄ edge pav	
"				22.0'		7.0' toe slope
"				22.5'	30 ℄ Hwy	
"				21.4'	63' So edge pav	
"				21.2'	70'	
T.P.				22.34'		
149+00				21.4'	⊼	
"				20.9'		8.0' Gut

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 5204-16 Division No. ____ F. B. 26A6 Pg. 2A3
X-Sec. No. ____ Date ____ Date ____ Survey of Water Works Dist #29
Notes Chkd. ____ Checked ____ Survey by Mankey Notes ETM Date 2-18-60
No. ____ Date ____ Date ____ Map No. ____ Indexed H. E. Ott Date ____

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.	PACIFIC COAST HWY LT & SO.	⊼=(30) Ln RT. & NO
149+00				21.64		8.0' Cb
"				21.7'	30' ℄ Hwy	
"				20.5'	62' So edge pav	
"				20.5'	70'	
149+32.12	EC	(PG 218)				⊼
150+00				20.1'		⊼
"				19.60'		8.5' Gut
"				20.39'		" Cb
"				20.8'	30' ℄ Hwy	
"				19.8'	60' pav edge	
"				20.0'	70'	
BM 48-56				(out) 22.11' (in) 22.09'	BM 48-56 EL. 22.112' FB 1369-47 US 2986, J-576, 1939. U.S.C.&G.S. Disc J-576 1939, on Pacific Coast Hwy, at Castellammare Overhead Bridge in top of E. end of So Retaining Wall, 50'± E. of ℄ of Overhead Walk	
150+54.6	W. end Rev. Cb. Curve			18.87'		3.2' Gut
"				19.54'		" Cb
150+68.8	SSMH			Rim El. 19.73'	8.2' Rim	
INVERT on 10" Inlet on N.				13.59	6.14' Rim to flow Line 10" Inlet	
" " 15" " W.				13.43'	6.30' " " " " 15" "	
" " " Outlet E.				13.42'	6.31' " " " " " Outlet	

F. B. 2646 PG. 244 Job No. 5294.16 Division No. Notes Red. Plotted Profile
Survey of Wtr Works Dist 29 Date Date No.
Survey by ETM Jr Notes Mankey Jr Notes Chkd. Checked X-Sec.
Indexed H. E. Ott Date Date Date No.

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.	PACIFIC COAST HWY LT & SO	⊼ = (30') Ln	RT & NO
E end NECR Pacific Coast Hwy & Port to Marina Wy				19.38'			3.2' Cb
" " " " " " " "				18.66'			" Gut
N " " " " " " " "				19.38'			Cb.
				18.81'			Gut
			TP	18.90'			
150+94.4	Intr (30') in " "		" " " "	19.1'		⊼	
"				18.9'			10
"				19.9'	30' ℄ Hwy		
"				19.1'	60' So edge pav		
"				19.0'	70'		
				Rim EL			
151+04.0	SDMH			18.78'			5.5' Rim
INVERT on 24" R.C.P. to South				14.15'	4.63' Rim to F.L. of 24" Outlet (See Profile Pg 224)		
				Rim EL			
151+12.8	SSMH			19.18'			22.3' Rim
INVERT on 10" Outlet to So.				13.76'	5.42' Rim to F.L. of 10" Outlet		
152+00				18.9'		⊼	
"				19.1'			10
"				19.5'	30' ℄ Hwy		
"				18.8'	60' So. edge pav		
"				18.7'	70'		

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 5294 Division No. ____ F. B. 2646 Pg. 245
X-Sec. No. ____ Date ____ Date ____ Survey of Wtr Works Dist #29
Notes Chkd. ____ Checked ____ Survey by Mankey Jr. Notes ETM Jr. Date 7-18-60
Date ____ Date ____ Map No. ____ Indexed ____ H. E. OTT Date ____

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.	PACIFIC COAST HWY LT & SO	⊼=(30')Ln RT & NO
152+12	W. end Cb	Ret Pacific Coast Hwy		19.12'		7.8 Cb.
"	" " "	" " " "		18.31'		" Gut
"	" " "	" Porto Marina		20.12'		15.8' Cb
"	" " "	" " "		19.64'		" Gut
153+00				19.5'	⊼	
"				18.99'		8° Gut
"				19.79'		" Cb
"				20.1'	30' ℄ Hwy	
"				19.4'	60' So. edge pav	
"				19.0'	70'	
153+535	SSMH			Rim EL 20.31'	13.8' Rim	
INVERT on 15" Inlet on W.				14.17'	6.14' Rim to F.L.	15" Inlet
"	"	" Outlet E		14.16'	6.15 " " "	" Outlet
154+00				20.1'	⊼	
"				19.86'		4.2' Gut
"				20.66'		" Cb
"				20.9'	30' ℄ Hwy	
"				20.6'	60' So edge pav	
"				20.3'	70'	
T.P.				19.34'	Bt Spk. So Edge Gut at 153+33.6 No. Side Hwy	

F. B. 2646 PG. 246 Job No. 5294-46 Division No. Notes Red. Plotted Profile
Survey of Wtr Works Dist #29 Date Date No. X-Sec.
Survey by ETM Jr Notes Mankey Vc Notes Chkd. Checked
Indexed H. E. Ott Date Date Date No.

76L-298 S & E #307—1-56

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	PACIFIC COAST HWY LT & SO.	= (30') Ln. RT & NO.
154+95.90	BC	(See Pg 220)		20.19		
"				20.16		0.7' Gut
"				20.97		" Cb
"				21.6	30' ℄ Hwy	
"				21.7	60' So edge pav	
"				21.8	70'	
155+00				21.00		
"				20.19		0.2' Gut
"				20.23		" Cb
"				21.6	30' ℄ Hwy	
"				22.0	60' So edge pav	
"				21.7	70'	
156+00				21.61		on Cb
"				20.76	0.4' Gut	
"				22.4	30' ℄ Hwy	
"				22.7	60' So edge pav	
"				23.1	70'	
156+19.3	SSMH			Rim EL. 22.04	16.7' Rim	
INVERT on	15" Inlet on W.			14.94	7.10' Rim to F.L.	15" Inlet
" "	" Outlet to E.			14.93	7.11' " " "	" Outlet

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 5294.16 Division No. ____ F. B. 2646 Pg. 247
X-Sec. No. ____ Date ____ Date ____ Survey of Wtr Works Dist #29
Notes Chkd. ____ Checked ____ Survey by Mankey Jr. Notes ETM Jr. Date 7-19-60
No. ____ Date ____ Date ____ Map No. ____ Indexed H. E. OTT Date ____

76L-298 S & E #307—1-56

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	PACIFIC COAST HWY LT. & SO.	⊼ = (30') Ln RT. & NO.
157+00				22.34		⊼ on Cb.
"				21.50	0.35' Gut	
"				23.1	30' ℄ Hwy	
"				23.5	60' So edge pav. & P/L	
"				23.7	70'	
157+87.07 E.C.	(Pg. 220)			22.8		⊼
"				22.54		3.5' Gut
"				23.34		" Cb
"				23.5	30' ℄ Hwy	
"				23.4	60' So edge pav	
"				23.6	70'	
				Rim FL		
158+42.5	SSMH			24.19	9.7' Rim	
INVERT on	8" Inlet on	N.W.		16.14'	8.05' Rim to F.L.	8" Inlet
"	" 10" " "	W.		15.85'	8.34' " " "	10" "
"	" 15" Outlet	E.		15.84'	8.35' " " "	15" Outlet
158+54.7 INVERT on	24" Drain at C.B.			19.13'		3.7' flow line Outlet
"	" " " "	& (30') Ln		19.10'		⊼ (Descending 6.12% South)
158+80				23.76'		7.9' Gut
"				24.57'		" Cb
T.P.				30.87'		

F. B. 2646 Pg. 248
Job No. 5294.16 Division No. Notes Red. Plotted Profile
Survey of Wtr Works Dist #29 Date Date No.
Survey by ETM Jr. Notes Monkey Jr. Notes Chkd. Checked X-Sec.
Indexed H. E. Ott Date Date Date No.

76L-298 S & E #307—1-56

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	PACIFIC COAST HWY LT & SO.	(36) Ln. RT. & No.
159+00				24.8'		
"				24.76'		So. edge Gut (See Pg 222 for G-G)
"				24.8'	30' ℄ Hwy	
"				23.9'	60' So edge pav	
"				24.2'	70'	
159+67.88	BC	(Pg 221)		26.6'		(Note: this portion of Conc Gut is Covered with A.C. Pav)
"				25.9'	30' ℄ Hwy	
"				24.5'	63' So edge pav	
"				24.6'	70'	
160+00				—		So. [also A.C. Covered] & edge Gut (See Pg 222 for Sec. G-G)
"				—	30' ℄ Hwy	
"				—	63' So edge pav	
"				—	70'	
161+00				30.4'		
"				30.16'		9.2' So. edge Gut (See Pg 222 for G-G)
"				29.0'	30' ℄ Hwy	
"				26.3'	64' So edge pav	
"				26.9'	70'	

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 529416 Division No. ____ F. B. 2646 Pg. 249
X-Sec. No. ____ Date ____ Date ____ Survey of Water Works Dist #29
Notes Chkd. ____ Checked ____ Survey by Markey Jr. Notes ETMcK Date 7-19-60
No. ____ Date ____ Date ____ Map No. ____ Indexed H. E. OTT Date ____

76L-298 S & E #307—1-56

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F. B. 2646 Pg. 250 Tab No. 5941/6 Division No. Notes Red. Plotted Profile
Survey of Wtr. Wks. 5 Dist. No. Date No. X-Sec.
Survey by F.E. Ott Notes Mtzr. Key W.C. Notes Chkd. Checked
Indexed Date Date Date No.

STATION	B. S.	H. I.	F. S.	ELEV.	PACIFIC COAST HWY
				Rim EL	Lt & So. — ℄ (30') In. — Rt & No.
161+01.5 SSMH				29.94'	10.5' Rim
INVERT on 10" Inlet on W.				16.45'	13.49' Rim to F.L. 10" Inlet
" " " Outlet to E.				16.36'	13.58' " " " " Outlet
162+00				33.2'	℄
"				32.76'	12.4' So. edge Gut (See Pg 222 for "GG")
"				31.9'	30' ℄ Hwy
"				29.6'	65' Soedgepav
" T.P.				29.9'	70'
163+00				36.2'	℄
"				35.34'	9.9' So. edge Gut (See Pg 222 for "G-G")
"				35.1'	30' ℄ Hwy
"				32.3'	66' Soedgepav
"				32.9'	70'
				Rim EL	
163+01.7 SSMH				35.94'	3.5' Rim
INVERT on 10" Inlet on W.				17.08'	18.86' Rim to F.L. 10" Inlet
" " " Outlet to E.				17.05'	18.89' " " " " Outlet
163+46.0 Start Conc Cb				37.46'	11.0' Cb
163+62.0 Cb & pt				37.22'	8.0' Gut
" " "				38.04'	" Cb
T.B.				37.84'	

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.	PACIFIC COAST HWY LT & SO.	(30) Ln RT & NO.
164+00				38.5'		
"				38.02'		8.0' Gut
"				38.84'		" Cb
"				38.3'	30' ℄ Hwy	
"				37.4'	68' So edge pav	
"				37.6	70'	
164+29.6'	PRC (See Pg 223)			39.0'		
"				38.55'		8.0' Gut
"				39.29'		" Cb
"				39.3'	30' ℄ Hwy	
"				38.5'	68.5 So edge pav	
"				38.6'	70'	
164+49.0	Cb & pt			38.54'		7.9' Gut
"	" " "			39.37'		" Cb
164+61.3	" " "			38.51'		5.4' Gut
"	" " "			39.30'		" Cb
164+92.0	Intr. (30) Ln. & East Wall Red Tunnel			38.8'		
"	INVERT on Tunnel floor			28.40'		(Pg 223)
						(Descending 2.3 % South)

Profile Notes Red ____ Plotted ____ Job No. 5294-16 Division No. ____ F. B. 2646 Pg. 251
No. ____ Date ____ Date ____ Survey of Wtr. Works Dist #29
X-Sec. Notes Chkd. ____ Checked ____ Survey by Hanke Wr. Notes ETM Date 7-20-60
No. ____ Date ____ Date ____ Map No. ____ Indexed H. E. OTT Date ____

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.	PACIFIC COAST HWY
					LT & So. ↑ (36) in RT. & No.
165+00				38.7'	
"				38.39'	4.3' Gut.
"				39.23'	" cb.
"				40.2'	30' ℄ Hwy
"				41.0'	68' So edge pav.
"				41.2' Rim EL	70'
165+19.5 SSMH				38.88'	9.3' Rim
INVERT on 10" Inlet on W.				17.46'	21.42' Rim to flow line 10" Inlet
" " 10" Outlet to E.				17.43'	21.45' " " " " " Outlet
165+28.5 Beg. Rev. Curve				38.09'	4.3' Gut
" " " "				38.89'	" Cb
165+58.6 End " "				38.59'	2.1' Cb
" " " "				37.79'	" Gut
166+00				37.06'	2.0' Cb.
"				36.19'	" Gut.
"				38.1'	30' ℄ Hwy
"				38.8'	60' So. edge pav
"				39.3'	70'
TBM				39.32'	TBM EL. 39.32' F.B. 2646 Pacific Coast Hwy. (N. side) at Castle Rock Spk. in Cb. 29 ± E. of Ped. Tunnel.

F. B. 2646 Pg. 252
Survey of Wtr. Works Dist #29 Job No. 5294/16 Division No. Notes Red. Plotted Profile
Survey by ETM Jr. Notes Mankey Jr. Date Date No. X-Sec.
Indexed B. E. Ott Date Notes Chkd. Checked Date No.

76L-298 S & E #307—1-56

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Profile Notes Red. Plotted Job No. 2946 Division No.
No. X-Sec. Date Date Survey of W.W. Works Dist #29
No. Notes Chkd. Checked Survey by Mankey, Jr. Notes ETM Date 7-20-60
Date Date Map No. Indexed H. E. OH Date

F. B. 2646 Pg. 253

STATION	B. S.	H. I.	F. S.	ELEV.	PACIFIC COAST HWY
					LT ℄ 50 X=(30) RT ℄ NO
				Rim EL	
166+43.0	SSMH			35.65'	8.5' Rim
	INVERT on 10" Inlet on W.			17.59'	18.06' Rim to flow line 10" Inlet
	" " 10" Outlet to E.			17.57'	18.08' " " " " 10" Outlet
166+64.40	EC.	(PG. 224)		35.47'	19' CB
"				34.67'	" Gut
"				36.2'	30' ℄ Hwy
"				36.4'	60' So edge pav
"				36.3'	70'
167+00				34.97'	18' CB
"				34.17'	" Gut
"				35.4'	30' ℄ Hwy
"				35.4'	60' So edge pav
"				35.1'	70'
					X=(25') LN
167+85.5	BC	(PG 225)		33.00'	X
"				32.86'	3' Gut
"				33.68'	" CB
"				33.2'	25' ℄ Hwy
"				32.5'	55' So edge pav
"				32.3'	65'

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.	PACIFIC COAST HWY LT. & SO.	⊼ = 25' Ln RT. & NO.
169+00				30.53'		1.1' Gut
"				31.20		" Cb
"				30.6'	25' ℄ Hwy	
"				29.6' Rim EL	65'	
169+13.6	SSMH			30.22'		⊼ Rim
	INVERT on 10" Inlet on W.			18.23	11.99' Rim to F. L.	10" Inlet
	" " 10" Outlet to E.			18.17'	12.05' " " " "	" Outlet
169+66.93'	E.C. (PG 225)			29.02'		⊼
170+00				28.20'		⊼
"				28.14'		1.0' Gut
"				28.77'		" Cb
"				28.3'	25' ℄ Hwy	
"				27.0'	65'	
171+00				25.75'		⊼
"				25.70'		0.7' Gut
"				26.38'		" Cb
"				26.1'	25' ℄ Hwy	
"				25.0'	65'	
171+57.6	BCR			24.23'		0.7' Gut
"	"			25.01'		" Cb

F. B. 2646 PG. 254
Job No. 5294.16 Division No. Notes Red. Plotted Profile
Survey of Wtr. Works Dist #29 Date Date No. X-Sec.
Survey by ETM Jr. Notes Mankey Jr. Notes Chkd. Checked No.
Indexed H. E. Ott Date Date Date

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.	PACIFIC COAST HWY
					LT & SO ⊼ = (25') Ln RT & NO
				Rim EL	
171+63.0	SSMH (flusher)			24.49'	8.0' Rim
	INVERT on 10" Outlet to E			19.15	5.34 Rim to F.L. 10" Outlet
171+78.5	ECR			22.89'	8.8' Gut
"	"			23.39'	" Cb
172+00				23.2'	⊼
"				22.8'	15' pav
"				23.6'	25' ℄ Hwy
"				22.4'	65'
172+61.0	CTR. C.B. (Pg 226)			21.43'	11.9' Grate
	INVERT 48" R.C.P. Outlet South			11.71'	9.72 Grate to F.L. 48" Outlet
					(See Profile Pg 226)
172+81.05	Intr. City Ln & (25') Ln.			22.0'	⊼
172+84.49	" " " (30') Ln			21.5'	⊼ = (30') Ln
173+15.45	4 Pt (See Pg 226)			21.2'	⊼
"				20.9'	10'
"				21.3'	2.5' No. edge pav
"				21.8'	30' ℄ Hwy

Profile No. ____ Date ____ Notes Red. ____ Plotted ____ Date ____ Job No. 5294/16 Division No. ____ Survey of Wtr. Works Dist #29 Survey by Mankey Notes ETM Date 7-20-60 Map No. ____ Indexed H. E. OTT Date ____

X-Sec. No. ____ Date ____ Notes Chkd. ____ Date ____ Checked ____ Date ____

F. B. 2646 Pg. 255

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.	PACIFIC COAST HWY	
					LT & SO	K=30' Ln RT & NO
173+15.45	∠PT			20.7'	70'	
T.P.				20.91'		
TBM				21.48'	TBM EL. 21.48 FB 2646 Pg. 256 Pacific Coast Hwy. (N. Side) SPk. in S.E. Cor. of C.B. 5'± from cb. 27'± E. of City Bdry. Ln.	
T.P.				19.49'		
T.P.				18.27'		
T.P.				19.47'		
BM				19.04'	BM 48-60 EL. 19.078 FB. 1369 Pg. 50 City, L.A. 10696-19, Std. Sur. Trav. Mon. D-8 2.1' S. of N. Edge of Pav. opp. W. Ln. of house #18222 Pacific Coast Hwy. 58' N. Ly. of N.W. Cor. of House	

F. B. 2646 Pg. 256
Job No. 294-16 Division No. Notes Red. Plotted Profile
Survey of Wtr Works Dist #29 Date Date No. X-Sec.
Survey by ETM Notes Mankey Ln Notes Chkd. Checked No.
Indexed H. E. Ott Date Date Date

Notes Ck'd by	Survey of Wtr. Works Dist. #29
Map No.	JN 5294.21 Tape Std °F
Office Work	Surveyed by Monkey Jr.
Checked	Notes ETM Jr. Date May 25, '61
Date	Indexed H. E. Ott JUN 16 '61

F. B. 2646 PG. 257

JN 5294.21

WTR. WORKS DISTRICT #29

TOPOGRAPHY

of

BEL-AIR BAY CLUB

TUNNEL

STATIONING is PER MALIBU-TOPANGA FEEDER

UNIT NO 2 SHEET NO. 20.2.13

Monkey Jr,
McCall
Swann
Manley

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76F3095 CE #247 8-57

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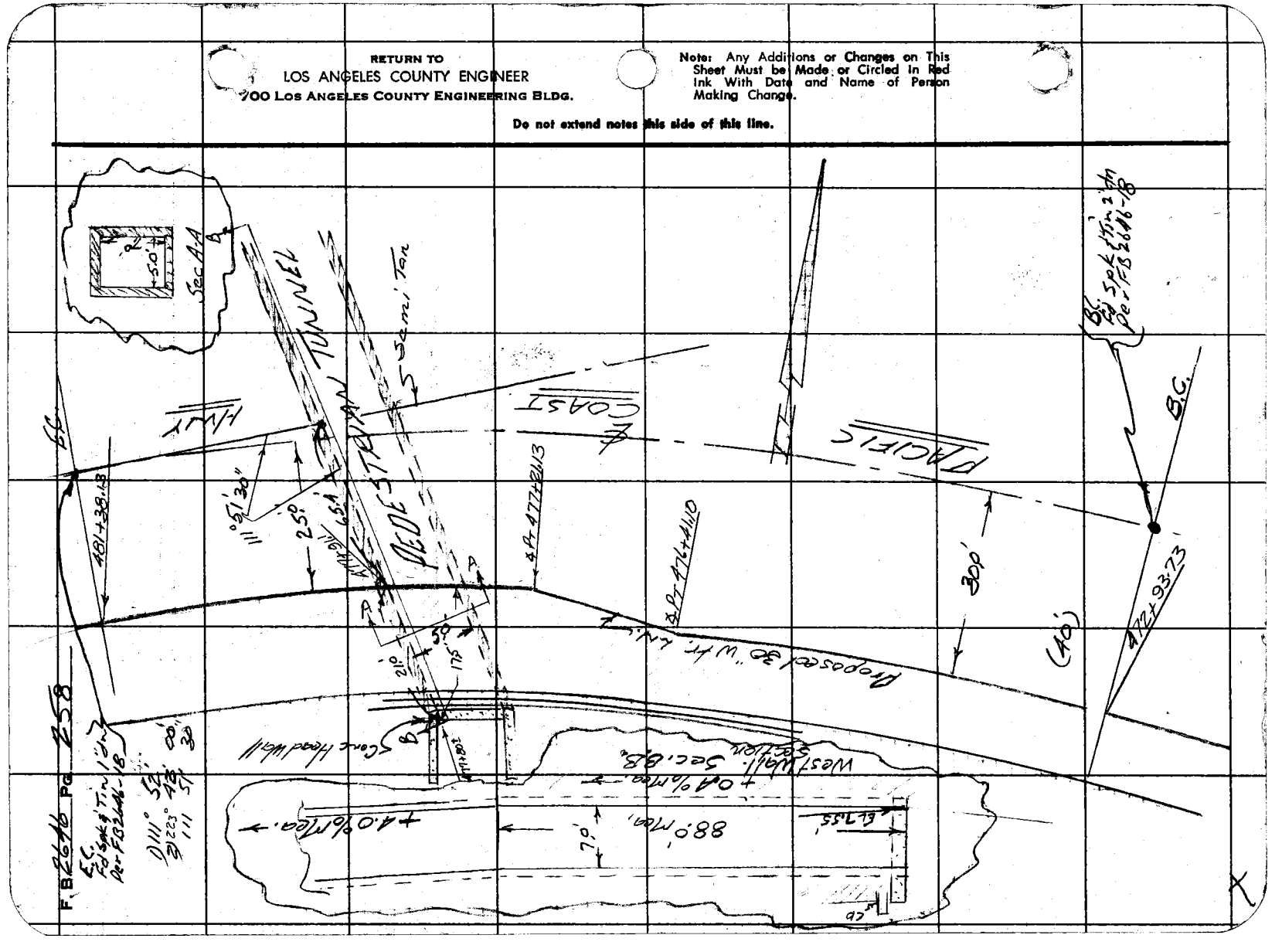

Profile	Notes Red.	Plotted	Job No. 5294.21	Division No.	F. B. 2646 Pg. 258
No.	Date	Date	Survey of Wtr. Works Dist #29		
X-Sec.	Notes Chkd.	Checked	Survey by Mankey Jr.	Notes ETM Jr.	Date May 25, 61
No.	Date	Date	Map No.	Indexed H. E. OTT	Date JUN 16 '61

JN 5294.21

WATER WORKS DIST. #29

TUNNEL INVERT
AT
BEL-AIR BAY CLUB

STATIONING is Per MALIBU-TOPANGA FEEDER

UNIT NO 2 SHEET NO 29.2.43

Mankey Jr.
McCall
Swann
Manley

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

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76L-298 S & E #307—1-56

F. B. 2646 Pg. 760 Job No. 52942 Division No. Notes Red. Plotted Profile
Survey of Wtr Works Dist #29 Date Date No.
Survey by ETM Jr. Notes Mark Jr. Notes Chkd. Checked
Indexed H. E. Ott Date Date Date

					BM 48-50	EL 20.425	[illegible]
BM 48-50				20.43			
477+21.13 ∡ PT & BC				20.0'			W
"				20.4'			25' Hwy ℄
"				19.2'		40' Gut	
"				20.05'		40' Cb	
				12.95			
477+80± TP Invert on Tunnel floor				7.55		17.5' Conc Floor Direct	
℄ (See Pg 258 for Profile)							
477+91.1 Wtr. Ln & West Wall of Tunnel				20.0'			W pav
" " " " " " Invert				7.63' Calc.			W. Tunnel Floor Calc.
478+00				20.0'			W
"				20.5'			25' Hwy ℄
"				19.3'		40' Gut	
"				20.06'		40' Cb.	
BM 48-50				20.43'	BM 48-50	EL 20.425' (See Above)	