TERMINAL SUPERINTENDENT T. F. GOODWIN.....Oakland ASST. TERMINAL SUPERINTENDENTS M. A. JENSEN.....Oakland J. H. LONG (acting)......Oakland TRAINMASTERS A. J. FERRARA.....Oakland Pier H. W. HALL. Oakland Pier R. R. ROBINSON. Suisun-Fairfield L. W. MONEY Stockton N. B. EDDLESTONE Tracy ASSISTANT TRAINMASTERS I. O. UNDERHILL.....Port Costa J. F. SCHETTER.....Livermore TERMINAL TRAINMASTERS W. S. CHAMNEY Oakland J. L. HARRISON JR. (acting).....Oakland ROAD FOREMEN OF ENGINES S. H. BRAY......West Oakland E. R. ALVORD.....Tracv ENGINEMEN INSTRUCTOR C. M. SCHULZE West Oakland ASSISTANT TRAINMASTER-DIVISION EXAMINER W. S. HOOSON......Oakland CHIEF TRAIN DISPATCHERS J. B. WATTS.....Oakland Pier S. C. W. HANSEN.....Stockton

F. E. KALBAUGH Assistant Superintendent, Oakland Pier

W. E. EASTMAN
Assistant Superintendent, Stockton

C. F. HEATH
Assistant Superintendent, Oakland Pier

SOUTHERN PACIFIC COMPANY



WESTERN DIVISION TIMETABLE

243

AT 12:01 A. M.

PACIFIC STANDARD TIME

FOR THE GOVERNMENT AND INFORMATION OF EMPLOYES ONLY

J. W. CORBETT, General Manager.

> R. E. HALLAWELL, H. R. HUGHES, Assistant General Managers.

> > C. H. GRANT, General Superintendent of Transportation.

> > > Superintendent of Transportation.

E. D. MOODY, Superintendent.

HOSPITAL DEPARTMENT SURGEONS

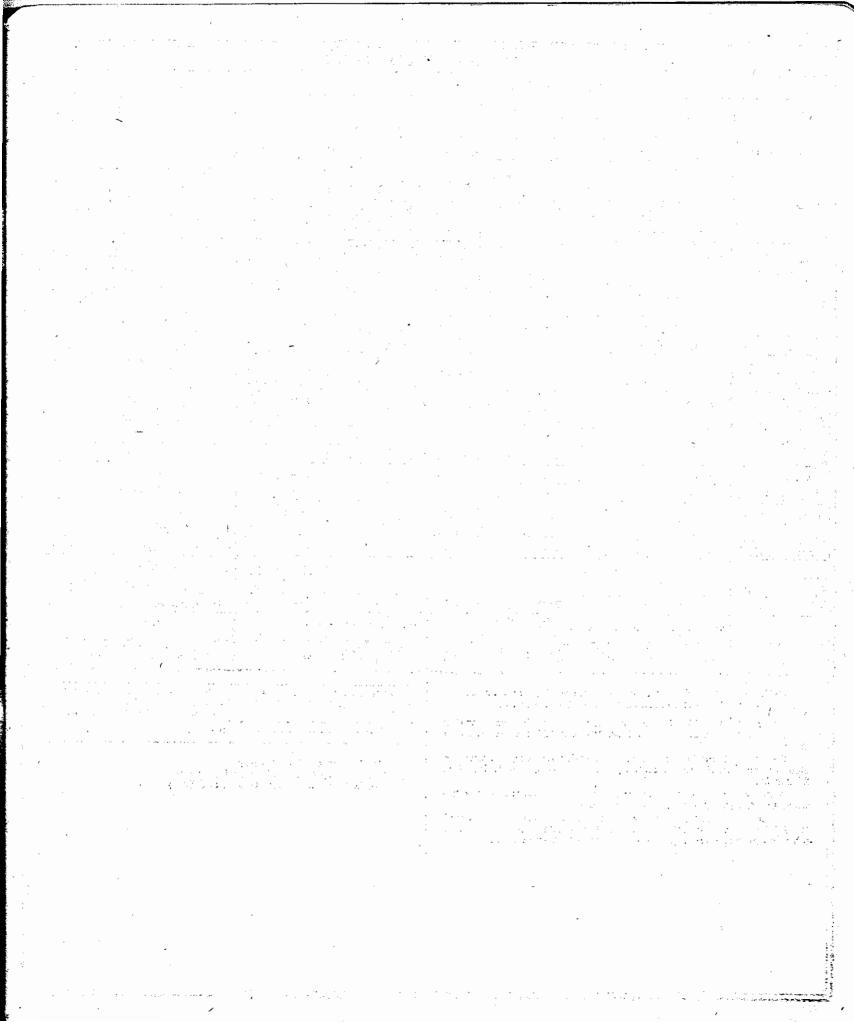
LOCATION	NAME	TITLE	LOCATION	NAME	TITLE
San Francisco	Dr. W. W. Washburn	Chief Surgeon	Sacramento	Dr. W. W. Cress	Division Surgeon
San Francisco	Dr. Clinton Horn	Medical Examiner, 65 Market St.	Sacramento	Dr. A. F. Wallace	Division Surgeon
Oakland	Dr. Harry H. Appeldorn Dr. John Murphy	Division Surgeon District Physician and Surgeon	Sacramento	Dr. Manuel L. Azevedo Dr. W. N. Becker	District Physician and Surgeon
Oakland	Dr. R. F. Dooley	District Physician and Surgeon	Sacramento	Dr. R. P. Jones	District Physician and Surgeon District Physician and Surgeon
Oakland	Dr. Edmund H. Padden	Oculist	Sacramento	Dr. J. Roy Jones.	Oculist and Aurist
Oakland	Dr. Milton Shutes	Oculist and Aurist	Roseville	Dr. L. E. Jones	District Physician and Surgeon
East Oakland	Dr. R. James Walker	District Physician and Surgeon	Roseville	Dr. J. F. McAnnally	Asst. Dist. Physician and Surgeon
West Oakland	Dr. D. W. Stomberg	District Physician and Surgeon	Tracy	Dr. J. E. Longley	District Physician and Surgeon
North Oakland	Dr. C. Jackemy Dr. N. P. Dunne	District Physician and Surgeon District Physician and Surgeon	Tracy	Dr. H. K. Wilson Dr. H. T. Quinn	Asst. Dist. Physician and Surgeon District Physician and Surgeon
Fruitvale	Dr. J. W. Scamell.	District Physician and Surgeon	Stockton	Dr. E. G. Hermosillo	Asst. Dist. Physician and Surgeon
Fruitvale	Dr. L. E. Lacev	District Physician and Surgeon	Stockton	Dr. D. R. Powell	Oculist and Aurist
Fruitvale	Dr. G. W. Dygert	District Physician and Surgeon	Lodi	Dr. L. J. Peterson.	District Physician and Surgeon
Fruitvale	Dr. O. T. Leftwich	Oculist and Aurist	Lodi	Dr. C. V. Thompson	District Physician and Surgeon
Fruitvale	Dr. H. P. Howell Dr. E. L. Armstrong	Asst. Oculist and Aurist District Physician and Surgeon	Lockeford	Dr. N. P. Barbour. Dr. V. E. Greer, Jr.	Emergency Surgeon District Physician and Surgeon
Elmhurst	Dr. C. G. Furbush	Asst. Dist. Physician and Surgeon	Galt	Dr. Hugo Childress	Emergency Surgeon
Berkeley	Dr. J. R. Masterson	District Physician and Surgeon	Elk Grove	Dr. Paul W. Frame	District Physician and Surgeon
Berkelev	Dr. A. M. McIntosh	District Physician and Surgeon	Oakdale		District Physician and Surgeon
Berkeley	Dr. A. J. Fleisher	District Physician and Surgeon	Manteca	Dr. K. W. Hidy.	Emergency Surgeon
Albany	Dr. Douglas Ream Dr. N. C. Kern	District Physician and Surgeon District Physician and Surgeon	Manteca	Dr. Curtis M. Galt	Emergency Surgeon District Physician and Surgeon
Richmond	Dr. W. E. Cunningham	District Physician and Surgeon	Modesto	Dr. Fred R. DeLappe Dr. H. R. Wilson	District Physician and Surgeon
Alameda	Dr. A. L. Guerra	District Physician and Surgeon	Modesto	Dr. J. A. Porter.	Oculist and Aurist
Alameda	Dr. D. D. Stafford	District Physician and Surgeon	Ceres	Dr. F. K. Lord	Emergency Surgeon
Alameda	Dr. John Ohanneson	Asst. Dist. Physician and Surgeon	Turlock	Dr. M. C. Collins	District Physician and Surgeon
San Leandro	Dr. G. T. Honaker Dr. P. C. Rahn	District Physician and Surgeon District Physician and Surgeon	Livingston	Dr. Charles L. Garvin Dr. E. R. Fountain	District Physician and Surgeon District Physician and Surgeon
Hayward	Dr. Charles C. Impey	District Physician and Surgeon	Merced	Dr. W. E. Fountain	Asst. Dist. Physician and Surgeon
Rodeo	Dr. J. C. McCullough	District Physician and Surgeon	Chowchilla	Dr. Herbert O. Leff	Emergency Surgeon
Crockett	Dr. J. M. McCullough	District Physician and Surgeon	Chowchilla	Dr. A. B. Bigler	Emergency Surgeon
Vallejo	Dr. Burton F. Jones Dr. A. J. Ryan	District Physician and Surgeon	Madera	Dr. Herbert Weinberger	District Physician and Surgeon
Vallejo Napa	Dr. D. H. Murray	District Physician and Surgeon District Physician and Surgeon	Fresno	Dr. F. E. Cooley Dr. W. E. Furze.	District Physician and Surgeon Asst, Dist. Physician and Surgeon
St. Helena	Dr. M. M. Booth	District Physician and Surgeon	Fresno	Dr. O. B. Doyle	Asst. Dist. Physician and Surgeon
Calistoga	Dr. Frank McGreane	District Physician and Surgeon	Fresno	Dr. L. G. Price	Oculist
Santa Rosa	Dr. A. B. Herrick	District Physician and Surgeon	Patterson	Dr. E. G. Allen	District Physician and Surgeon
Santa Rosa	Dr. E. T. Noall. Dr. A. M. Bowles.	District Physician and Surgeon Asst. Dist. Physician and Surgeon	Crows Landing Newman	Dr. E. G. Allen. Dr. A. M. Roscoe.	District Physician and Surgeon
Benicia	Dr. N. J. Crisp.	District Physician and Surgeon	Newman	Dr. A. M. Roscoe Dr. James E. Thompson	District Physician and Surgeon Asst. Dist. Physician and Surgeon
Benicia	Dr. A. C. Atwood	Asst. Dist. Physician and Surgeon	Gustine	Dr. A. W. Gustafson	Emergency Surgeon
Martinez	Dr. Edwin Merrithew	District Physician and Surgeon	Los Banos	Dr. L. R. Hillyer	District Physician and Surgeon
Martinez	Dr. G. L. Coates	Asst. Dist. Physician and Surgeon	Kerman	Dr. J. C. Drake	District Physician and Surgeon
Concord	Dr. E. B. Todd	Emergency Surgeon Emergency Surgeon	Pleasanton	Dr. Harold J. Shanks Dr. Paul Dolan	District Physician and Surgeon
Danville	Dr. John Blemer	Emergency Surgeon Emergency Surgeon	Livermore	Dr. G. S. Holeman	District Physician and Surgeon District Physician and Surgeon
Pittsburg	Dr. Claude L. Kerns	Emergency Surgeon	Irvington	Dr. E. M. Grimmer.	Emergency Surgeon
Antioch	Dr. L. B. Weatherbee	District Physician and Surgeon	San Jose	Dr. D. R. Threlfall	District Physician and Surgeon
Byron	Dr. J. W. Hammond	District Physician and Surgeon	San Jose	Dr. R. C. Sheretz	Asst. Dist. Physician and Surgeon
Suisun-Fairfield Vacaville	Dr. Felix R. Rossi, Jr Dr. M. P. Stansbury.	District Physician and Surgeon District Physician and Surgeon	San Jose	Dr. John M. Hohl Dr. Phillip Jordan	
Esparto	Dr. W. D. Garcelon.	Emergency Surgeon	San Jose	Dr. Filing Jordan	Ocunst and Aurist
Dixon	Dr. O. P. Floreth	District Physician and Surgeon			
Davis	Dr. T. E. Cooper	Emergency Surgeon	Note.—Emergen	cy Surgeons should only be sur	mmoned for temporary treatment ients cannot be sent to, or await
Davis	Dr. Leo A. Cronan	Emergency Surgeon	arrival of. Division of		tenes cannot be sent to, or await
			direction of Division o	A District Daily	

HOSPITALS

GENERAL HOSPITALSAN FRAN	CISCO
EMERGENCY HOSPITALSACRAM	ENTO
EMERGENCY HOSPITALWEST OAK	LAND

WATCH INSPECTORS

S A Pone Manager of Time Service 85 Market St. San Francisco	Calistoga
S. A. Pope, Manager of Time Service	Sacramento
San Francisco. L. S. Preston, 357 Phelan Bldg.	December 1020 A Ot.
OaklandE. W. Becker, 3357 E. 14th St.	Roseville
Oakland Leroy D. Wentz, 1624 Franklin St.	MartinezJohn G. Beard
Oakland E. S. Griffin, 214 Easton Bldg.	Pittsburg Messrs. H. A. Minasian & H. A. Clark
Oakland 214 Easton Bidg.	TracyL. H. Jolley
Oakland	Livermore
Oakland E. D. Stucki, 4844 E. 14th St.	Walnut Creek
Alameda	San Jose
Berkeley Service & Post, 2179 Shattuck Ave.	Newman Ernest Beall
Berkeley Ernest L. Dorrett, 1823 Solano Ave.	Los BanosJohn B. Machado
RichmondO. A. Poulsen, 1317 McDonald Ave.	Fresno
Stockton	MaderaJ. W. Brooks
Lodi	Merced
Benicia	Modesto. W. P. Shoemake
VallejoG. E. Bangle Co.	Turlock. D. F. Hall



1	2				1	MART	NEZ S	SUBDI	VISIO	4					
				EA	STWA	RD						Π,			
					Fil	RST CLA	SS						Timetable No. 243		.
		12	102	15	244	246	28	56	52	224	Mile Post Location		July 6, 1947		Distance from Oakland Pier
	Capacity of sidings	Cascade	Streamliner City of San Francisco	West Coast	Statesman	Statesman	San Francisco Overland	Passenger	San Joaquin Daylight	Senator	Mile				Distar Oakla
	-	Leave Dally	Leave Daily	Leave Daily	Leave Sunday and Holidays	Leave Daily Ex. Sunday and Holidays	Leave Daily	Leave Daily	Leave Daily	Leave Daily			STATIONS		
		PM 5.00	PM 5.00		PM 2.00	PM 1.30	11.00	AM 10.00	8.00	AM 7.20			SAN FRANCISCO	Oakland	
		5.20	5.20		2.20	1.50	11.20	10.20	8.20	7.40			OAKLAND PIER		
	BKW1P	PM 5.35	PM 5.30		PM 2.25	PM 2.00	11.30	AM 10.30	8.25	7.47	3.5		TO-R OAKLAND PIER		0.0
	BKWOITYP		ļ <u></u>								(4.9) 4.5	89	(TO-R WEST OAKLAND)		(1.4)
yard	IP	s 5.43	s 5.37		s 2.33	s 2.08	s11.38	s 10.38	s 8.32	s 7.53	5.5		OAKLAND (16th Street)		2.0
Oakland yard	IP				ļ	<u> </u>		<u> </u>	· .		7.0	_ };	TO SHELLMOUND		3.5
8	Р	s 5.52	s 5.45		s 2.42	s 2.18	811.47	s 10.47	s 8.40	s 8.01	9.2	-	BERKELEY		5.7
	P	6.00	5.53	<u> </u>	s 2.52	s 2.29	<u>s 11.57</u>	s 10.57	s 8.49	8.09	15.0	- <u>10</u>	RICHMOND 1.6		11.5
	WP E 105	├	ļ ·			<u> </u>	PM				16.6	. S	SAN PABLO		13.1
Ţ	E 105 W 95 P	6.10	6.02			s 2.41	12.08	f11.09	9.00	8.20	23.0	- E {:	TO PINOLE 5.9 CROCKETT		19.5
2	Р	6.19					s12.18	s11.22	s 9.12	s 8.30	29.0	natic	2,1	Double	25.4
Costa yard	BKWOTP		ļ		f 3.17	s 2.59		s11.27			31.1	Auto I	2.0		27.5
اچ	M 116 P	<u> </u>	·	<u> </u>				s 1 135	s 9.23		33.1 34.7	- -	0ZOL 1.6	Track	29.5
la l	WIP	6.28	6.19		s 3.26	s 3.10	12.28	AM	AM	8.39	31.7	∦ }:	TO MARTINEZ 5.3 BAHIA		31.1
	M 118 WP E 83 Suisun yard W 87 BKWOYP	6.36		ļ	3.34	3.18	12.36			8.47	38.0	╢╟	TO-R SUISUN-FAIRFIELD		37.4
		6.47	6.36		8 3.52		12.47	<u> </u>		8 9.00	48.9	네블 ! -	10.5		48.3 58.8
	M 88 WYP M 74 WP	6.58			f 4.04		12.58			9.11	59.4 67.5	- Syst	ELMIRA 8.1 DIXON		66.9
	E 80 Yard Limits W 81 KWIYP	7.05 s 7.20	6.50	PM	f 4.15		1.06			9.19 s 9.31	75.6	#	TO-R DAVIS		75.0
	M 96 P	FIM	6.56	6.30 6.36	s 4.28 4.34	s 4.38	1.16			9.37	80.4		4.8 WEBSTER		79.8
		-		0.38	-1.34	4.44	1.23			7.3(86.9	Į.	6.5 SHRy Crossing		86.3
Sacr	E BKWOTIP	<u> </u>	s 7.13	8 6.50	s 4.50	8 5.00 PM	s 1.40		· · · · · · · · · · · · · · · · · · ·	s 9.50	89.0	1 ;	TO-R SACRAMENTO		88.4
		Arrive Daily		Arrive Daily	Arrive Sunday and	Arrive Daily Ex. Sunday and Holidays		Arrive Dally	Arrive Dally	Arrive Daily			(88.4)		
		(1.45) 42.85	(1.43) 51.49	(0.20) 40.20	(2.25) 36.51	(3.00) 29.46	(2.10) 40.80	(1.05) 28.71	(0.58) 32.17	(2.03) 43.12			Time over District		

RULES 86 and 93: Second and third-class trains, extra trains and engines must clear time of Nos. 101 and 102 not less than 15

Second and third-class trains, extra trains and engines must be clear of main track and insulated joints at passing points for Nos. 27 and 28.

Automatic train control eastward track from Martinez to westward dwarf signal 300 ft. east of draw span.

When Signal 328 displays yellow aspect, trains must not exceed 15 MPH from this signal to track magnet located 550 feet west of semi-automatic signal, opposite white concrete marker block.

ADDITIONAL FLAG STOPS TO RECEIVE OR DESCHARGE REVENUE PASSENGERS										
Train At (or Septem) (or Beyond) Frequency										
12	Richmond	Regna		Daily						

No. 56 stop on flag at Selby. No. 246 stop on flag at Giant for express. No. 246 stop at Rodeo, Oleum and Selby.

				MART	INEZ	SUBDI	VISIO	N					3
	,			•		1	WI	ESTWA	RD				
	Timetable No. 243	B C					FFI	RST CLA	SS				
Mile Post Location	July 6, 1947	Distance from Sacramento	25 Mail	21 Pacific	19 Klemath	23 Challenger	57 0w1	101 Streamliner City of San Francisco	247 El Dorado	11 Cascado	13 Beaver	16 West Coast	27 San Francisco Overland
	STATIONS		Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily
	SAN FRANCISCO	92.0	AM 5.50	AM 7.50	AM 8.20	AM 8.50	AM 8.50	AM 9.15	AM 9.50	AM 11.20	AM 11.50		PM 3.20
	SAN FRANCISCO 3.5 OAKLAND PIER	88.5	5.30	7.30	8.00	8.30	8.30	8.55	9.30	11.00	11.30		3.00
3.5	TO-R OAKLAND PIER	88.5	8 5.00	8 7.10	AM s 7.45	AM s 8.05	8 8.15	8 8.45	s 9.23	AM 8 10.50	AM 811.10		PM s 2.50
(<u>4.9)</u> 4.5	(TO-R WEST OAKLAND)	(87.5)											
5.5	OAKLAND (16th Street) 1.5	86.5	s 4.50	s 7.00	s 7.37	s 7.58	s 8.07	8.38	s 9.16	s 10.42	s11.00		s 2.42
7.0	TO SHELLMOUND	85.0											
9.2	BERKELEY 5.8	82.8						8 8.28					8 2.30
15.0	RICHMOND 1.6	77.0	s 4.10	s 6.22	s 7.06	s 7.28	s 7.38	8.17	8.54	10.16	10.34		2.17
16.6	S SAN PABLO 6.4 TO PINOLE	75.4 69.0	3 = 1	6.05	<u> </u>						1000	<u></u>	200
23.0	TO PINOLE 5.9 CROCKETT	63.1	3.51 s 3.41	6.05 8 5.54	6.50	7.09	7.21	8.08	8.43	10.05	10.23		2.06 8 1.56
28.9 29.0 31.1	21		5 3.41	s 5.54	s 6.40	s 6.58	\$ 7.10		s 8.31	9.56	10.14		8 1.36
33.1	2.0	1							8 8.31				<u> </u>
34.7	OZOL 1.6 TO MARTINEZ	57.4	3.26	8 5 38	s 6.26	8 6.40	6.53	751	s 8.25	9.46	в 10.03		1.43
31.7 38.0	6.4 BAHIA	51.0	3.17	5.24	6.12	6.27	6.53 AM		8.15	9.37	9.52		1.34
48.9	TO-R SUISUN-FAIRFIELD	40.1	s 3.06			6.16	<u> </u>	7.34	s 8.04	9.27	9.42		1.24
59.4	10.5 ELMIRA	29.6	2,53	4.57	5.49	6.02			7.53	9.17	9.32		1.14
67.5	B.1 DIXON	21.5	2.45	4.47	f 5.40	5.53			7.45	9.09	9.24	<u> </u>	1.06
75.6	TO-R DAVIS	13.4	f 2.36	f 4.35	5.30 AM	5.43		7.14	s 7.36	9.00 AM	9.15 AM	AM	12.57
80.4	4.8 WERSTER	8.6	2.30	4.26	AM	5.36			7.30	AM	AM	\$10.40 10.32	12.51
86.9	SNRy Crossing 2.1	2.1											
89.0	TO-R SACRAMENTO	0.0	2.20 AM	4.15 AM		5.25 AM		7.00	7.20 AM			10.20 AM	12.40 PM
	(88.5)		Leave Daily		Leave Daily	Leave Daily	Leave Daily	Leave Daily	Leave Dally	Leave Daily	Leave Daily	Leave Dally	Leave Daily
	Time over District		(2.40) 33.15	(2.55) 30.34	(2.15) 33.38	(2.40) 33.15	(1.22) 22.75	(1.45) 50.57	(2.03) 43.17	(1.50) 40.96	(1.55) 39.18	(0.2.) 40.20	(2.10) 40.84

RULES 86 and 93: Second and third-class trains, extra trains and engines must clear time of Nos. 101 and 102 not less than 15 minutes.

Second and third-class trains, extra trains and engines must be clear of main track and insulated joints at passing points for Nos. 27 and 28.

Automatic train control westward track from 100 ft. east of Signal 357 to Martinez.

When Signal 347 displays yellow aspect, trains must not exceed 15 MPH from this signal to track magnet located 1250 feet east of semi-automatic signal, opposite white mark on bridge.

Trala	At	(or Beyond)	Discharge From (or Beyond)	Frequency
21 23 11 13 27	Any Station. Davis, Dixon, Suisun-Fairfield. Richmond. Crockett. Richmond.		Ogden Eugene Portland	Daily Daily Daily

	4					MART	INEZ :	SUBDI	VISIO	N		
		\		E	ASTWA	RD						1
					FI	RST CLA	ss					Timetable No. 243
	Capacity of sidings		26 Passenger	20 Klamath	32 Passenger	22 Pacific	24 Challenger	58 0w1	248 El Dorado	14 Beaver	Mile Post Location	Timetable No. 243
			Leave Daily	Leave Daily	Leave Daily	Leave Daily	Leave Daily	Leave Daily	Leave Dally	Leave Dally		STATIONS
			PM 8.00	PM 8.00	PM 7.30	PM 7.30	PM 7.00	PM 6.30	PM 5.30	PM 5.00		SAN FRANCISCO
			8.20	8.20	7.50	7.50	7.20	6.50	5.50	5.20		SAN FRANCISCO 3.5 OAKLAND PIER
	BKWIP		РМ 8.55	PM 8.45	8.20	PM 8.05	PM 7.35	PM 7.00	PM 5.57	PM 5.40	3.5	
Ш	BKWOITYP										(4.9) 4.5	
Oakland yard	IP		s 9.06	s 8.56	s 8.31	s 8.14	s 7.44	s 7.09	s 6.04	s 5.49	5.5	
kland	IP										7.0	
ő	P	·	s 9.18	s 9.09	s 8.43	s 8.24	s 7.54	s 7.20	s 6.13	s 5.58	9.2	
1	РР		s 9.32	s 9.23	s 8.57	s 8.36	s 8.06	s 7.32	6.21	6.06	15.0	
-	E 105		ļ <u>.</u> .		<u> </u>					ļ	16.6	
-	W 95 P		9.44	9.35	9.08	8.47	8.17	7.43	6.31	6.16	23.0 28.9	
ard	P	··	s 9.58	s 9.50	s 9.23	s 9.00	s 8.30	s 7.58	s 6.40	s` 6.25	29.0	CROCKETT 25.4
Port Costa yard	BKWOTP		s 10.02								31.1	13 20 2 2 2 2 2 2 2 2
orte	M 116 P							s 8.10	· · · · · · · · · · · · · · · · · · ·		33.1 34.7	
	WIP				s 9.40			PM		s 6.36	31.7	TO MARTINEZ 31.1
-	M 118 WP E 83 Suisun Yard W 87 BKWOYP		10.25	10.14	9.49	9.23	8.54		6.58	6.45	38.0	10.9
			s 10.41		s 10.05				s 7.10	6.56	48.9	10.5
-	M 88 WYP	7.	10.55	10.41	10.18	9.51	9.24		7.21	7.07	59.4	8.1
	M 74 WP : E 80 Yard Limits W 81 KWIYP		f11.07	10.50 s 1 1.05 PM	10.27	10.00	9.33		7.29	7.15 s 7.30	67.5	8.1
	M 96 P	· · · · · · · · · · · · · · · · · · ·	s11.30	- PM	s 10.50			· · · · · ·	<u>\$ 7.40</u>	PM	75.6	4.8
II			11.38		10.58	10.28	10.03	, -	7.46		80.4	6.5
Sacre	BKWOTIP		8 1 1.55		s 1 1.15	s 10.45	s 10.20		s 8.00		86.9	2.1
-	DAWOIN		,							· · · · ·	89.0	
			Arrive Daily		Arrive Daily			Arrive Daily	Arrive Daily	Arrive Daily		(88.4)
	* * * * *		(3.00) 29.46	(2.20) 32.14	(2.55) 30.30	(2.40) 33.15	(2.45) 32.18	(1.10) 26.66	(2.03) 43.12	(1.50) 40.91		Time over District

RULES 86 and 93: Second and third-class trains, extra trains and engines must clear time of Nos. 101 and 102 not less than 15 minutes.

Second and third-class trains, extra trains and engines must be clear of main track and insulated joints at passing points for Nos. 27 and 28.

Automatic train control eastward track from Martinez to westward dwarf signal 300 ft. east of draw span.

When Signal 328 displays yellow aspect, trains must not exceed 15 MPH from this signal to track magnet located 550 feet west of semi-automatic signal, opposite white concrete marker block.

AD	ADDITIONAL FLAG STOPS TO RECEIVE OR DISCHARGE REVENUE PASSENGERS										
Train	At	Receive To (or Beyond)	Oischarge From (or Beyond)	Frequency							
24 20	Dixon Elmira, Dixon	Sparks. Woodland		Daily Daily							

No. 26 stop on flag at any station to receive or discharge passengers, baggage, mail or express to or from any station.

					MART	INEZ	SUBDI	VISIO	N					5
								WI	ESTWA	RD				
	Timetable No. 243		E					FII	ŔST CLA	ss				
Mile Post Location	July 6, 1947		Distance from Sacramento	229	243	55	223	51	245	241	1			1
Mi			Dista Sacr	Governor	Governor	Passenger	Senator	San Joaquin Daylight		Sierra.				
	STATIONS			Arrive Daily Ex. Sunday and Holidays	Arrive Sunday and Holidays	Arrive Daily	Arrive Dafly	Arrive Daily	Arrive Sunday and Holidays	Arrive Daily Ex. Sunday and Holidays				
0.0	SAN FRANCISCO	F 0 2	92.0	PM 5.20	PM 4.50	PM 6.50	PM 7.50	PM	PM	PM		=		
3.5	OAKLAND PIER	Oakland Ferry	88.5	5.00	4.30	6.30	7.30	8.30 8.10	10.50 10.30	11.10 10.50				
3.5	TO-R OAKLAND PIER	1	88.5	PM s 4.45	PM s 4.20	PM s 6.20	PM 8 7.20	PM s 7.58	PM s 10.25	PM \$10.42		-		
<u>(4.9)</u> 4.5	(TO-R WEST OAKLAND)		(87.5)					·						
5.5	OAKLAND (16th Street)		86.5	s 4.35	s 4.12	s 6.12	s 7.13	s 7.51	s 10.17	s 10.35			1	,
7.0	TO SHELLMOUND]	85.0											
9.2	BERKELEY 5.8	_	82.8	<u>. </u>			s 7.03	l 1	I					
15.0	RICHMOND 1.6 SAN PABLO	-	77.0	8 4.03	s 3.50	s 5.44	6.52	s 7.28	s 9.53	s 10.05				
23.0	TO PINOLE	-	75.4 69.0	- 3-45										
	信 < 5.9	-1.	63.1	s 3.46		f 5.27	6.41	7.15	9.40	9.50				
28.9 29.0 31.1	CROCKETT 2.1	- 닐	61.0	s 3.36	s 3.28 f 3.23	s 5.16		s 7.07						
33.1	2.0 OZOL	Double - X	59.0	\$ 3.21	3.23	3.06			s 9.23	s 9.28				_
34.7	TO MARTINEZ	Track	57.4	s 3.21	s 3.17	5.00	s 6.23	6.55 PM	s 9.17	s 9.22				<u>-</u>
31.7	BAHIA	-	51.0	3.08	3.07	PM	6.13	PM	9.06	9.09			-	
48.9	TO-R SUISUN-FAIRFIELD	-	40.1		s 2.56		8 6.02		s 8.55			 	-	
59.4	10.5 ELMIRA 8.1	-	29.6	s 2.41	f 2.44		5.50		8.43	8.44				
67.5	8.1 DIXON 8.1	-	21.5	s 2.32	f 2.35		5.43		s 8.35			·	-	
75.6	TO-R DAVIS	-	13.4	s 2.20	s 2.26		s 5.35		s 8.25	s 8.25		-		
80.4	WEBSTER 6.5	-	8.6	2.10	2.20		5.30		8.10	8.10			-	·
86.9	SNRy Crossing	-	2.1									-		
89.0	TO-R SACRAMENTO]	0.0	2.00 FM	2.10 PM		5.20 PM		8.00 PM	8.00 PM	-			
	(88.5)			Leave Daily Ex. Sunday and Holidays	Leave Sunday and Holidays	Leave Daily	Leave Daily	Leave Daily	Leave Sunday and Holidays	Leave Daily Ex. Sunday and Holidays		_		-
	Time over DistrictAverage Speed per Hour.			(2.45) 32.18	(2.10) 40.84	(1.20) 23.32	(2.00) 44.25	(1.03) 29.62	(2.25) 36.62	(2.42) 32.70	<u></u>		·	

RULES 86 and 93: Second and third-class trains, extra trains and engines must clear time of Nos. 101 and 102 not less than 15 minutes.

Second and third-class trains, extra trains and engines must be clear of main track and insulated joints at passing points for Nos. 27 and 28.

Automatic train control westward track from 100 ft. east of

Nutomatic train control westward track from 100 ft. east of Signal 357 to Martinez.

When Signal 347 displays yellow aspect, trains must not exceed 15 MPH from this signal to track magnet located 1250 feet east of semi-automatic signal, opposite white mark on bridge.

AD	ADDITIONAL FLAG STOPS TO RECEIVE OR DISCHARGE REVENUE PASSENGERS											
Train	At Receive To Or Beyond Or Beyond Frequency											
229	Cygnus	Any Station	Suisun	Daily Ex. Sun.								
229 241	Selby, Oleum, Rodeo	Any Station	Any Station	Daily Ex. Sun.								

No. 55 stop at Rodeo daily except Sunday and Holidays to receive U. S. Mail.

	5 .			1	MARTI	NEZ S	UBDI	VISION	1		
			EA	STWA	RD			,			
-		Т	HIRD CLA	SS			SECONI	CLASS			Timetable No. 243
	Capacity of sidings		476 Freight	410 Freight	464 Freight				442 c. c. m.	Mile Post Location	July 6, 1947
			Leave Daily	Leave Daily	Leave Daily Ex. Sunday		-		Leave Daily Ex. Sat., Sun.		STATIONS
-		·									SAN FRANCISCO VERMINA SAN FRANCISCO VERMINA SAN PIER
											OAKLAND PIER
-	BKWIP								-	3.5	TO-R OAKLAND PIER ' 0.0
	BKWOITYP	,	PM 11.45	PM 10.15	9.00		·		PM 10.00	(4.9) 4.5	(TO-R WEST OAKLAND) (1.4)
yard	IP									5.5	OAKLAND (16th Street) 2.0
Oakland yard	IP_									7.0	TO SHELLMOUND 3.5
Oak	P		_			<u> </u>				9.2	BERKELEY 5.7
	P					-				15.0	FICHMOND 11.5
	w _P									16.6	SAN-PABLO 13.1
	E 105 W 95 P									23.0	TO PINOLE 19.5
	P									28.9 29.0	CROCKETT 25.4
yard	вкуотр				4.00 PM					31.1	CROCKETT 25.4 R PORT COSTA 27.5
Josta	M 116 P									33.1	OZOL 29.5
Port Costa yard	WIP	,	1.30	11.45 PM					11.15	34.7 31.7	TO MARTINEZ 31.1
$\ \cdot \ $	M 118 WP									38.0	6.3 BAHIA 37.4
-	E 83 Suisun yard W 87 BKWOYP		2.15	-		1			PM 11.55	48.9	TO-R SUISUN-FAIRFIELD 48.3
-	M 88 WYP									59.4	10.5 ELMIRA 58.8
-	M 74 WP	`								67.5	81 DIXON 66.9
-	E 80 Yard Limits W 81 KWIYP		3.30						AM 12.35	75.6	8.1 TO-R DAVIS 75.0
Ⅱ一	M 96 P		J.30							80.4	4.8 WEBSTER 79.8
			T		<u> </u>					86.9	SNRy Crossing 86.3
Sacr	SE IP BKWOTIP		4.30 AM						1,00	89.0	TO-R SACRAMENTO 88.4
			Arrive Daily	Arrive Daily	Arrive Daily Ex. Sunday	· · · ·			Arrive Daily Ex.Sun., Mon.		(88.4)
=			(4.45) 18.71	(1.30) 20.66	(7.00) 3.78				(3.00) 29.17		Time over DistrictAverage Speed per Hour

RULES 86 and 93: Second and third-class trains, extra trains and engines must clear time of Nos. 101 and 102 not less than 15 minutes.

Second and third-class trains, extra trains and engines must be clear of main track and insulated joints at passing points for Nos. 27 and 28.

Automatic train control eastward track from Martinez to westward dwarf signal 300 ft. east of draw span.

When Signal 328 displays yellow aspect, trains must not exceed 15 MPH from this signal to track magnet located 550 feet west of semi-automatic signal, opposite white concrete marker block.

				MART	NEZ :	SUBDI	VISIO	7				7
							WE	STWA	RD			
	Timetable No. 243						TH	IRD CLA	SS			
Mile Post Location	July 6, 1947	ce fro	465	475			,					
Mile		Distance from Sacramento	Freight	Freight								
	STATIONS		Arrive Daily Ex. Sunday	Arrive Daily							 · · · · · · · · · · · · · · · · · · ·	
	SAN FRANCISCO	92.0	-								 	
	SAN FRANCISCO 3.5 OAKLAND PIER OAKLAND PIER	88.5									 	
3.5	TO-R OAKLAND PIER	88.5										
(4.9) 4.5	(TO-R WEST OAKLAND)	(87.5)	PM 2.00	AM 1.00								
7.0	OAKLAND (16th Street) 1.5 TO SHELLMOUND	86.5 85.0									 	
9.2	BERKELEY	82.8		· · · · · · · · ·					·		 	_
15.0	5.8 RICHMOND	77.0				<u> </u>						
16.6	SAN PABLO	75.4		·					 -		 	
23.0	TO PINOLE 5.9	69.0										- 1
28.9 29.0	CROCKETT	63.1									 	
31.1	[⊒] 2.0 [≌]	61.0	7.00 AM									
33.1	0ZOL 1.6	59.0										
34.7 31.7 38.0	TO MARTINEZ 6.4 BAHIA			10.35 PM								
48.9	TO-R SUISUN-FAIRFIELD	51.0 40.1		10.00							 	
59.4	10.5 ELMIRA	29.6	· -	10.00						-	 	
67.5	8.1 DIXON	21.5				<u>.</u>			ļ		 	<u> </u>
75.6	TO-R DAVIS	13.4		8.45								<u> </u>
80.4	4.8 WEBSTER 6.5	8.6		,			:				 	
86.9	SNRy Crossing	2.1										
89.0	TO-R SACRAMENTO	0.0		8.15 PM								
	(88.5)		Leave Daily Ex. Sunday	Leave Daily								
	Time over District		(7.00) 3.78	(4.45) 18.71								

RULES 86 and 93: Second and third-class trains, extra trains and engines must clear time of Nos. 101 and 102 not less than 15 minutes.

Second and third-class trains, extra trains and engines must be clear of main track and insulated joints at passing points for Nos. 27 and 28.

Automatic train control westward track from 100 ft. east of Signal 357 to Martinez.

When Signal 347 displays yellow aspect, trains must not exceed 15 MPH from this signal to track magnet located 1250 feet east of semi-automatic signal, opposite white mark on bridge.

ADDITIONAL STATIONS											
NAME	Mile Post	Capac- ity									
Emeryville Paraffine Stockyards S	19885315128411221904288113 235677023341221904288113 23567770233444514554137796	P P PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP									
Washington	88.3										

8		MARTINE2	SUBDI	VISIO	Ý.			
	EA	ASTWARD						
	THIRD CLASS	FIR	ST CLASS			# a	Timetable No. 243	rom E
Capacity of sidings	410 Freight		58 0wl	56 Passenger	52 San Joaquin Daylight	Mile Post Location	Julý 6, 1947	Distance from Martínez
	Leave Daily		Leave Daily	Leave Daily	Leave Daily		STATIONS	
Port Costs AIM AIM AIM	PM 11.45		PM 8.14	AM 11.40	AM 9.25	34.7	TO MARTINEZ	0.0
ro P	11.50		8.18	11.43	9.28	36.0	를 MOCOCO	1.3
64 Yard Limits	PM 11.55	,	8.21	s11.47		38.1	E TO-R AVON	3.4
N 82 Yard Limits S 116 WYP	AM 12.05		8.25	s11.51	9.33	41.3	TO PORT CHICAGO	6.6
50 P	12.15		8.29			44.8	McAVOY 4.1	10.1
# 55 BWP 55 YP	12.45	<u> </u>	s 8.33	AM s 11.59	s 9.40	48.9	TO-R PITTSBURG	14.2
₹ 55 YP	12.52		8.43	PM 12.09	9.45	50.8	LOS MEDANOS	16.1
64 P	1.00	<u> </u>	8.47	s 12.18		53.5	TO ANTIOCH	18.8
78 P	1.10		8.51	12.23		57.3	NEROLY 4.4	22.6
52 Yard Limits WP	1.20	· ·	f 8.57	s 12.34	9.55	61.7	2 TO BRENTWOOD	27.0
82 P	1.30		9.04	s 12.45		66.9	TO BYRON	32.2
46 P	1.42		9.10	12.50		71.6	HERDLYN	36.9
53 P	1.50		9.15	12.55		75.7	HERDLYN 4.1 BETHANY	41.0
42 P	1.57		9.20	12.59	10.11	79.1	JANNEY	44.4
Tracy yard BKWOTYP	2.10 AM		s 9.27 PM	8 1.05 PM	в 10.16 АМ	82.2	TO-R TRACY	47.5
	Arrive Dally		Arrive Daily	Arrive Dally	Arrive Daily		(47.5)	
	(2.25) 19.65		(1.13) 39.04	(1.25) 33.53	(0.51) 55.85		Time over DistrictAverage Speed per Hour	

RULE 5. Schedule time and train-order time at Mococo apply at end of double track.

Schedule time and train-order time for westward trains at Port Chicago apply at west switch north siding, and for eastward trains apply at east switch south siding.

RULES 86 and 93. Third class trains, extra trains and engines, except trains handling passenger equipment only, must clear time of Nos. 51 and 52 not less than 10 minutes and must be clear of main track and insulated joints at meeting and passing points for Nos. 51 and 52.

	EAST-V WARD	Timetable No. 243	WEST- WARD
Capacity of sidings	Mile Post Loostion	July 6, 1947	Distance from Radum
	결요	San Ramon Branch	Batar Ka
		STATIONS	
Yard Limits 64 YP	38.1	TO-R AVON	29.7
WP	42.5	TO CONCORD	25.3
	45.8	LAS JUNTAS	22.0
P	48.2	TO WALNUT CREEK	19.6
	54.8	DANVILLE	13.0
27	57.7	SAN RAMON	10.1
E TE	63.6	DOUGHERTY	4.2
Yard Limits	66.4	2.8 ASCO	1.4
IYP	67.8	TO RADUM	0.0
		(29.7)	

ADDITIONAL STATIONS									
NAME	Mile Post	Capac-							
San Ramon Branch Galindo(Spur) Hookston	41.0 45.1 52.6	2 17 ··							

RULE 5. Schedule time and train-order time at Mococo apply at end of double track.

Schedule time and train-order time for westward trains at Port Chicago apply at west switch north siding, and for eastward trains apply at east switch south siding.

RULES 86 and 93. Third class trains, extra trains and engines, except trains handling passenger equipment only, must clear time of Nos. 51 and 52 not less than 10 minutes and must be clear of main track and insulated joints at meeting and passing points for Nos. 51 and 52.

ADDITIONAL FLAG STOPS TO RECEIVE OR DISCHARGE REVENUE PASSENGERS											
Trala	At	Receive To (or Beyond)	Discharge From (or Beyond)	Frequency							
57	Brentwood	Berkeley	Fresno	Daily							

ADDITIONAL STATIONS										
NAME	Mile Post	Capac-								
Nichols. Shell Point. Jersey. (Spur) Newlove. (Spur) Arbor. (Spur) Byron Hot Springs.	43.0 46.8 55.0 56.0 59.4 68.9	61 P 48 P 22 24 13								

10				MARTINEZ S	SUBDI	VISIO	N				,/			
EASTV	VARD			,		WEST	WARI							
	SECOND	CLASS		Timetable No. 243		THIRD	CLASS	1 .						
Capacity of sidings	438	440	Mile Post Location	July 6, 1947	Distance from Calistoga	439	441							
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Freight	Freight	2 4	Napa Branch]	Freight	Freight							
	Leave Daily	Leave Daily Ex. Sunday		STATIONS		Arrive Daily	Arrive Daily Ex. Sunday	<u> </u>						
I 101 BKWOYP	AM 9.30	AM 7.00	50.5	TO-R SUISUN-FAIRFIELD	47.8	PM PM 5.10								
26			46.2	THOMASSON	43.5	1.35	4.55		ADDITIONAL STATIONS					
39 WP	9.45	7.15	44.8	CORDELIA 3.8	42.1	1.25	4.45	1 1						
23 P Yard Limits	9.55	7.25	41.0	CRESTON 3.8	38.3			 	NAME	Mile Post	Capac- Ity			
Yard Limits	10.10 AM	7.45 AM	37.2	TO-R NAPA JCT.	34.5	1.10 PM	4.30 PM	-	Napa Branch Subeet	47.9	9			
50 W			45.5	TO 8.3 NAPA 2.3	26.2	ļ			Rocktram. (Spur) Oak Knoll (Spur)	42.8 44.2 50.2	21 3 3			
30	·		47.8	UNION 6.2	23.9	<u> </u>	 -	-	Oak Khon	57.5 59.4	26 20			
Yard Limits			54.0	TO YOUNTVILLE	17.7	 		-	Zinfandel Thomann	61.2 62.1	40			
21 KT	Apples Defr	Arrive Daily	71.7	TO CALISTOGA	0.0	Leave Daffy	Leave Daily	-	St. Helena. Krug Barro. (Spur)	63.6 64.5 65.3	22 6 6			
	Arrive Daily	Ex. Sunday	,	(47.8)	-		Ex. Sunday		Larkmead(Spur)	67.5 68.3 1	15W			
	(0.40) 19.95	(0.45) 17.73		Average Speed per Hour	1	(0.40) 19.95	(0.40) 19.95		Maple Schellville Branch	69.0	9W			
EASTWAR	D	,		WESTWARD Buchit. Ramal. (Sp						42.2 45.7	10			
		SECOND CLASS		Timetable No. 243		THIRD CLASS		1	Hartley(Spur)	68.5 70.3	1			
		438	ost	July 6, 1947	Distance from	439			Norton	80.3 82.8 83.6	13 3 7			
Capacity of sidings		Freight	Mile Post Location	Schellville Branch	Chellick	Freight	1	,	Madison(Spur)	86.8	31			
		Leave Daily		STATIONS	- 5	Arrive Daily		'			50			
Yard Limits 35 WYP		AM 10.30	37.2	TO-R NAPA JCT.	11.3	PM 12.50								
68		10.35	38.0	LOMBARD	10.5	12.45								
P			40.7	BRAZOS	7.8									
Yard Limits	·	11.10 AM	48.5	TO-R SCHELLVILLE	0.0	12.10 PM	.[4	e year was a	. 37				
		Arrive Daily		(11.3)	\	Leave Daily					en e			
		(0.40) 16.95		Time over District		(0.40) 16.95	,				· · · · · · · · · · · · · · · · · · ·			
,	EAST-	Tim	etable	No. 243 WEST-			1	EAST-	Timetable No	243	WEST			
	WARD	1	July 6,	WALLE				WARE	July 6, 194		WARD			
Capacity of sidings	Post for		Vallejo E	× .		Capacity of	egnibis	lon lon	Winters Brai		Distance from Esparto			
	Mile Post Location	ļ	STATE	Validii Ana			İ	Mile Post Location	STATION		Estance Estance			
Yard Limits			SIAII	_ <u>a</u>	. -									
Yard Limits 35 WYP	37.2	TO-R	NAPA		-		WYP	59.4 59.6	4.1					
Yard Limits WT	34.4		2.8 FLOSI 4.3		-	Yard Li	mite	63.7	TO VACAVILL		26.2			
WT	30.1	TO-R	VALLI		-	20	WT	76.0	TO WINTER 13.9 ESPARTO		13.9			
			(7.1)	-		w	89.9	ESPÁRTO (30.3)		<u> 7 0.0</u>			
	EAST-	T:_	notable	No. 243 WEST-	=						***************************************			
1	WARD	110		WALL										
Capacity of sidings	ost Ion		July 6,	1021										
	Mile Post Location		Union B											
	48.8		WEST I	EAPA 2.0										
30	50.8 47.8		UNIC		/									
			(2.0)						<u></u>				

,

		 -		SUBDIVISIO	1					11
						<u></u>	W	ESTWA	RD	
ST SS	a st		Tim	etable No. 243	Ę.	FIRST	CLASS	TH	IIRD CLA	SS
,	Mile Post Location			July 6, 1947	Distance from Fresno	57		401	403	405
	~	_			ם	0wl		Freight	Freight	Freight
ally				STATIONS		Arrive Daily		Arrive Daily	Arrive Daily	Arrive Daily
35	82.2		TO-R	TRACY	126.2	AM s 5.40		AM 7.30	PM 3,10	PM 11.50
	84.9			2.7 Lyoth	123.5	5.32				
<u>16</u>	87.9			YARMOUTH	120.5	5.28		7.06	2.55	11.35
3	92.6			VERNALIS	115.8	5.22		6.57	2.46	11.25
	96.4	. .		HALLY	112.0					
)2	100.4		TO.	WESTLEY	108.0	5.13		6.46	2.35	11.13
1	107.4		TO	PATTERSON	101.0	f 5.04		6.36	2.13	11.02
8	113.2		CI	ROWS LANDING	95.2	4.56		6.26	2.04	10.53
	117.3			TIMBA	91.1					`
26	119.5	_	то	NEWMAN	88.9	f 4.48		6.16	1.54	10.43
31	123.5	System	TO	GUSTINE .	84.9	f 4.43		6.08	1.48	10.31
38	129.3	Block S		INGOMAR	79.1	4.36		5.58	1.39	10.05
15	135.6	tie Bi	ĺ	VOLTA	72.8	4.29		5.48	1.29	9.55
57	140.4	tomat	TO-R	LOS BANOS	68.0	s 4.23		5.40	1.21	9.45
8	148.3	Ā		AGATHA	60.1	4.07		5.15	1.07	9.20
16	153.0		то	DOS PALOS	55.4	f 4.01		5.06	12.59	9.12
25	159.8			0XALIS	48.6	3.53		4.50	12.48	9.02
32	166.2		TO	FIREBAUGH	42.2	f 3.46		4.35	12.38	8.52
38	170.8			CROMIR	37.6	3.40		4.15	12.20	8.35
14	174.5		то	MENDOTA	33.9	f 3.36		4.09	12.13	8.30
53	181.9		R	7.4 INGLE	26.5	3.27		3.58	11.58 AM	8.19
56	184.5			JAMESAN	23.9			3.54	11.54	8.14
)6	193.0		TO-R	KERMAN	15.4	f 3.15		3.40 AM	11.40 AM	8.00 PM
1	196.7			FLOYD	11.7					
10	208.4		TO-R	11.7 FRESNO	0.0	2.55 AM				
aily	1			(126.2)	`	Leave Daily		Leave Daily	Leave Daily	Leave Daily

ADDITIONAL STATIONS											
NAME	Mile Post	Capac- ity									
Los Banos line Ohm. Solyo. Vanormer Stomar. Linora. (Spur) Trent. Abatto. (Spur) Brito. Silaxo. Benito. Arbios. Rolinda. (Spur) Pratton. Crayold (Spur)	138.3 141.6 149.6 161.6 169.0 172.8	34 F 41 F 9 25 5 F 20 F									

EASTWARD

434

Freight

Leave Daily

PM 4.30

4.44

4.52

5.15

5.26

5.35

5.45

5.52

6.01

6.11

6.30

6.44

6.52

7.03

7.13

7.20

7.26

7.38

7.42

8.00 PM

Arrive Daily

Capacity of sidings

52

52

43

103

50

47

55

50

67

53

78

101

40

103

43

89

39

N 111 S 81

BKWOTYP

ΙP

P

P

P

WP

P

·P

P

P

P

P

P

P

P

P

Р

P

P

Yard Limits WYP

Fresno yard BKWOTYP

WP

Yard Limits BKWOYP

WΡ

SECOND CLASS

432

Freight.

Leave Dally

AM 9.15

9.28

9.36

10.00

10.11

10.20

10.30

10.37

10.46

10.56

11.15

11.30

11.38

11.49 AM 11.59 PM 12.07

12.13

12.26

12.30 12.45 PM

Arrive Daily

(3.30) 31.66

430

Freight

Leave Daily

AM 2.45

2.59

3.07

3.19

3.30

3.39

3.49

3.56

4.07

4.29

4.45

4.58

5.06

5.17

5.27

5.34

5.40

5.52

6.10 AM

Arrive Daily

FIRST

58

0w1

Leave Daily

PM 9.35

9.46

9.53

10.02

f 10.11

10.18

f 10.26

f 10.31

10.38

10.45

s 10.57

11.08

s11.16

11.25

11.32

11.38

11.44

Arrive Daily

(3.05) 40.93

....Time over District.... Average Speed per Hour

ADDITIONAL FLAG STOPS TO RECEIVE OR DISCHARGE REVENUE PASSENGERS										
Train	At	Receive To (or Beyond)	Discharge From (or Beyond)	Frequency						
58 57	Solyo, Firebaugh, Mendota, Kerman Solyo	Fresno Tracy	Martines Fresno	Daily Daily						

(3.50) 28.90

(3.30) 31.66

(3.50) 28.90

(2.45) 45.89

RULE 5. Schedule time and train-order time for Biola line trains at Kerman apply to north siding, and for Pratton line trains to south siding.

12	LOS BANOS SUBDIVISION													
	E	ASTW	ARD				WESTWARD							
		SECOND CLASS			# E	1	Timetable No. 243	E par			THIRD	CLASS		
Capacity of sidings		434 Freight	432 Freight	430 Freight	Mile Post Location		July 6, 1947	Distance from Fresno Yard	401 Freight	403 Freight	405 Freight			
		Leave Daily	Leave Daily	Leave Daily		STATIONS			Arrive Daily	Arrive Daily	Arrive Daily			
N 117 8 81	Yard Limits WYP	PM 8.00	PM 12.45	AM 6.10	193.0	TO-R	KERMAN	18.2	AM 3.40	AM 11.40	PM 8.00			,
	P	8.15	1.00	6.25		то	7.5 BIOLA	10.7	3.27	11.27	7.45			
F (IP	8.32	1.17	6.42	208.6 199.2		BIOLA JCT.	2.6	3.10	11.10	7.28			
Fresh	KP					TO-R	MUSCATEL	1.6						
<u> </u>	вкwр	8.40 PM	1.25 FM	6.50 AM	201.8	R	FRESNO YARD	0.0	3.00 AM	11.00 AM	7.20 PM		!	
		Arrive Daily	Arrive Daily	Arrive Daily			(18.2)		Leave Daily	Leave Daily	Leave Daily			
		(0.40) 27.30	(0.40) 27.30	(0.40) 27.30		Α.	Time over District verage Speed per Hour		(0.40) 27.30	(0.40) 27.30	(0.40) 27.30			-

RULE 5. Schedule time and train-order time for Biola line trains at Kerman apply to north siding, and for Pratton line trains to south siding.

Trains to and from Los Banos Subdivision via Biola Jct. use No. 1 drill track to enter or leave Fresno yard.

ADDITIONAL STAT	TONS	
NAME	Mile Post	Capac- ity
Biola line West Acres(Spur)	206.0	4

			LATHE	OP SUBDI	VISION			13
Capacity of sidings	EAST-WARD Post Post Post Post Post Post Post Post	Timetable No. 243 July 6, 1947	Distance from Kentucky House		Capacity of sidings	Wile Post Location	Timetable No. 243 July 6, 1947	Distance from Woodbridge
	Eğ.	Lodi Branch	apta aptuc			Mile	Lodi Branch	stanc
		STATIONS					STATIONS	A ²
Yard Limits BKWOYP	103.3	TO-R LODI	39.3		BKWOYP	103.3	TO-R LODI	2.5
11	105.2	ROMA	37.4		74.1	105.8	WOODBRIDGE	0.0
33 P	110.7	LOCKEFORD	31.9				(2.5)	
7 Yard Limits	130.2	TO VALLEY SPRING	12.4					
Yard Limits YWP	142.6	KENTUCKY HOUSE	0.0			ii		
		(39.3)				EAST-	Timetable No. 243	WEST- WARD
	EAST- V	Timetable No. 243	WEST- WARD		Capacity of sidings	Mile Post Location	July 6, 1947	Distance from Montpellier
		Tuly 6, 1947	E			Mile	Oakdale Branch	stanc
Capacity of sidings	Post Jon	july 0, 1341	ce fro				STATIONS	Ä
` l	Mile Post Location	Ione Branch	Distance from Jone	ĺ	Stockton yard BKWOITYP	90.9	TO-R STOCKTON	48.9
		STATIONS			28 YP	103.8	12.9 PETERS	36.0
Yard Limits 175 WYP	111.7	TO-R GALT	27.1		Yard Limits 50 WP	122.4	TO-R OAKDALE	17.4
	116.7	5.0 CCTCo Crossing	22.1		50 P	132.4	TO WATERFORD	7.4
Yard Limits WTP	138.8	TO IONE	↑ 0.0		р	139.8	MONTPELLIER 7.4	0.0
		(27.1)					(48.9)	

ADDITIONAL STA	TIONS		ADDITIONAL STATIONS							
NAME	Mile Post	Capao- ity	NAME	Mile Post	Capac-					
Lodi Branch Victor Clements Wallace Helisma Norval Toyon Macnider	107.1 114.7 120.8 126.4 129.3 134.7 139.0	17 P 10 P 27 P 14 4 11 P 11 P	Holden (Spur) Farmington (Spur) Valley Home (Spur) Adela (Spur)	116.7 120.6 126.3 134.0	5 13 P 15 P 18 46 42 P 19 R 19 P 27 13					

			MER	CED SUE	DIVISION					·	
	EAST- WARD	Timetable No. 243	WEST- WARD			EAST- WARD	Tim	etable	No. 2	243 V	WEST- WARD
Capacity of sidings	ost on	July 6, 1947	Distance from Daulton		Capacity of sidings	t u		July 6,	1947		Distance from Dairyland
	Mile Post Location	Berenda Branch	Silit			Mile Post Location	CI	iowchill	a Branc	h	iryls
		STATIONS	20 21 U			- EZ		STAT	IONS		Distr
70 WTP	176.5	BERENDA	11.4		WYP	168,2	TO C	CHOWC			10.1
I	179.8	TO KISMET TOWER	8.1	,		178.3	<u> </u>	DAIRY	LAND		0.0
12	183.8	TALBOT	4.1					(10	.1)		*-
	187.9	4.1 DAULTON	0.0			· ADI	DITIONAL ST	ATIONS		1	
		(11.4)				NA	ME	Mile Post	Capac- ity		
					1	Ash Tillman	la Branch (Spur)	172.6 175.3	7 5 5	. *.	

14				j	LATHI	ROP S	UBDIV	ISION						
	,		EA	STWAI	RD								ı	
	TH	IIRD CLA	SS	SECOND CLASS		FI	RST CLA	ss				Timetable No. 243	ı	E
·.	425	423	421	402		53	56	52	59	Mile Post Location		July 6, 1947		ice fro
Capacity of sidings	Freight	Freight	Freight	В. М.	,	Sacramento Daylight	Passenger	San Joaquin Daylight	West Coast	Mile		·		Distance from Tracy
	Leave Daily	Leave Daily	Leave Daily	Leave Daily Ex.Sun., Mon.	ļ.	Leave Daily	Leave Daily	Leave Daily	Leave Daily			STATIONS		
Tracy yard BKWOTYP				AM 12.10		PM 5.00	PM 1.20	AM 10.20		70.8		TO-R TRACY		0.0
'IP			-							78.3		7.5 San Joaquin River Drawb'ge		7.5
Yard Limits W 79 WYIP	PM 9.10	PM 12.55	AM 5.55	12.30 AM		5:20 5:50	s 1.36	s 10.33	AM 6.35	81.5		R LATHROP	Do	10.7
,ard										87.7		TSRy Crossing	Double !	16.9
BKWOITYP	9.35	1.20	6.20			s_6.10			s 6.50 7.05	90.9		TO-R STOCKTON	Track	20.1
IP IP										92.3		STOCKTON TOWER No. 4	,	21.5
w										93.9		1.6 AKERS		23.1
P	<u>.]</u>		<u>.</u>							95.0		End of Double Track		24.2
125 P										96.6	Bystem	CASTLE		25.8
125 P						 				100.2	(S)	ARMSTRONG		29.4
Yard Limits 129 BKWOYP						s 6.28			s 7.26	103.3		LÖDI	Cer	32.5
125 P	<u> </u>									106.2	utomat	ACAMPO	Centralized	35.4
126 P		/								109.5	Aut	FOREST LAKE		38.7
Yard Limits 175 WYP	<u> </u>		.			s: 6.43			7.37	111.7		2.2 GALT 3.8	Traffic	40.9
125 P						<u> </u>				115.5		NEED	Control	44.7
128 P	1	· .		**		<u> </u>	<u></u>			119.5		McCONNELL	TQ.	48.7
135 P										122.9		ELK GROVE		62.1
125 P			-					· ·		125.7		2.8 MEADOWS		54.9
137 WP	1	-				l 				129.0		3.3 FLORIN 3.0		58.2
TANGE TO THE STATE OF THE STATE	10.45	2 30	7 30			7.15			9 10	132.0		3.0 POLK	_	61.2
138 WIP	10.45 PM	2.30 FM	7.30 AM		-4.6	7.15	31		8.10 AM	133.2	1	BRIGHTON	- 1	62.4
		See	Sacramen	Time to Division	at Sacran timetable	nento and I for train n	Sivas for 11 novements	petween S	only. Sacramento	and Bri	ight	on.		
						PM 7.20			AM 8.17	``		ELVAS		
					,-	7.30 PM			8.30 AM		_	SACRAMENTO		
	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily Ex.Sun.,Mon.		Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily			(62.4)		
	(1.35) 32.65	(1.35) 32.65	(1.35) 32.65	(0.20) 32.10		(2.15) 27.73	(0.16) 40.12	(0.13) 49.38	(1.35) 32.65			Average Speed per Hour		
		<u> </u>				` 		-	. ,,,,,,,,					

No. 59 reduce speed to 15 MPH at Acampo and 35 MPH at Galt to dispatch mail.

No. 56 stop at Banta, when necessary, to exchange mail.

No. 53 stop on flag at French Camp on Saturday to receive mail.

ADDITIONAL STA	TIONS	
NAME	Mile Post	Capac- ity
Banta. Winship (Spur) French Camp. El Pinal. Tomspur (Spur) Urgon. (Spur) Arno.	73.9 76.8 86.1 92.7 98.1 105.1 117.5	77 P 9 77 P P 6 31 P 16 P

						LATH	ROP S	UBDIV	VISION	1				15
									WI	ESTWA	RD		<u>, , , , , , , , , , , , , , , , , , , </u>	
		Timetable No. 243	ij	· B		FI	RST CLA	ss			·····	THIRD	CLASS	,
Mile Post Location		July 6, 1947		Distance from Brighton	54 Sacramento Daylight	55 Passenger	51 San Joaquin Daylight	60 West Coast		420 Freight	424 Freight	426 Freight		
		STATIONS			Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily		Arrive Daily	Arrive Daily	Arrive Daily		
70.8		TO-R TRACY		62.4	AM s 11.05	,PM s 3.05	PM s_ 5.55	-		`				
78.3		San Joaquin River Drawb'ge		54.9		3.03	5_0.00			-				
81.5		R LATHROP	Double	51.7	10.50	2.45 PM	5.40 PM	PM 9.26		AM 7.40	PM 3.35	PM 11.30	-	
87.7		TSRy Crossing	T atdi	45.5										
90.9		TO-R STOCKTON	Track	42.3	s 10.00			s 9.12		7.15	3.10	11.05		
92.3		STOCKTON TOWER No. 4 1.6 AKERS	1	40.9	.									
95.0		1.1 End of Double Track		39.3		<u> </u>		<u> </u>						
96.6	tem	1.6 CASTLE		36.6	ļ 									
100.2	Sys	3.6 ARMSTRONG		33.0	<u> </u>		<u> </u>				·			
103.3	Block	LODI		29.9	s 9.30	 	<u></u>	8 8,40						· · · · ·
106.2	natic	ACAMPO	Centr	27.0								ļ		
1.09.5	Autor	- 3.3 - FOREST LAKE	Centralized	23.7	<u> </u>									
111.7		GALT 3.8	T T	21.5	s 9.17	 	<u> </u>	8.26				<u> </u>		
115.5		NEED 4.0	Traffic Control	17.7	l		-					· · · · · · · · · · · · · · · · · · ·		
119.5		McCONNELL 3.4	ntro1	13.7	-				, .	:				
122.9		ELK GROVE 2.8		10.3										
125.7		MEADOWS 3.3		7.5										
129.0		FLORIN 3.0		4.2										
132.0		POLK 1:2 BRIGHTON		1.2										
135.2		BRIGHTON		0.0	8.50 AM	<u> </u> -		8.05 PM		6.05 AM	2.00 FM	9.55 PM		
		、 See	Sa	cramen	Time to Division	e at Sacran 1 timetable	ento and l for train 1	Elvas for is novements	formation between	i only. Sacramento	and Brig	hton.		
		ELVAS			. AM			РМ 7.58		Ī	<u> </u>			
		SACRAMENTO	7		8.45 8.35 AM			7.45 PM			~			
		(62.4)			Leave Daily	Leave Daily	Leave Daily	Leave Daily	,	Leave Dafly	Leave Daпу	Leave Daffy		
		Time over District			(2.15) 27.73	(0. 20) 32,10	(0.15) 42.80	(1.21) 38.29		(1.35) 32.65	(1.35) 32.65	(1.35) 32.65		

No. 60 will not stop at station at Lathrop. Nos. 60, 420, 424 and 426 will use east leg of wye at Lathrop to enter Merced subdivision.

No. 55 stop at Banta, when necessary, to exchange mail.

16	j				MERC	ED SU	BDIV	ISION					`
			EA										
		THIRD	CLASS		SECOND CLASS		FIRST (CLASS		# 6		Timetable No. 243	E C
Cay	pacity of sidings	426 Freight	424 Freight	420 Freight	402 R.M.		60 West Coast	56 Passenger	52 San Joaquin Daylight	Mile Post Location		July 6, 1947	Distance from Lathrop
		Leave Daily	Leave Daily	Leave Dafly	Leave Daily Ex. Sun., Mon.		Leave Daily	Leave Daily	Leave Daily			STATIONS	
Yd,Lmts.	WYIP	PM 11.30	PM 3.35	AM 7.40	AM 12.30		PM 9.26	PM 1.40	AM 10,33	92.9	TO)-R LATHROP	0.0
] <u>X</u>	IP									93.8		0.9 WPRR Crossing	0.9
76	P	11.37	3.42	7.47	12.36		9.31	s 1.49	10.47	96.8	TC		3.9
112	P	11.42	3.47	7.52	12.40		9.34	1.52	10.50	99.4		CALLA	6.5
79	P	11.49	3.53	7.59	12.45		9.37	s 1.58		103.3	TC		10.4
79		PM 11.54	3.58	8.04	12.50		9.40	s 2.05	10.56	106.4		SALIDA	13.5
E 98 W 12		AM 12.04	4.15	8.14	1.20	9	9.58	s 2.35	s 11.09	113.1	<u>TC</u>	-R MODESTO	20.2
	IP									114.7	_	1.6 TSRy Crossing	21.8
72	P	12.12	4.25	8.22	1.28		10.05	s 2.42		117.4	_	CERES	24.5
70		12.18	4.32	8.28	1.34		10.09	1 2.46	11.18	120.8	_	KEYES	27.9
82	Yard Limits	12.27	4.54	8.37	1.42	s	10.19	s 2.57	s11.26	126.2	<u>TC</u>		33.3
91	P	12.36	5.08	8.46	1.50		10.25	i 3.04	11.32	131.9		5.7 DELHI	39.0
80	WP	12.55	5.17	9.05	1.56		10.30	s 3.15	11.37	136.4	g TO		43.5
72	P	1.05	5.26	9.15	2.05		10.36	f 3.23		143.2	# TC		50.3
125		1.13	5.33	9.23	2.11	<u>_</u>	10.40	3.28	11.46	147.4	B	FERGUS	54.5
147	Yard Limits BKWOTP	1.19	5.39	9.30	2.35	s	10.55	s 3.48	8 1 1.55	150.5	를 <u>) TC</u>	-R MERCED	57.6
71	P	1.28	5.50	9.39	2.45		11.03	f 3.57	PM 12.02	156.6	F	6.1 LINGARD	63.7
76	P P	1.35	5.58	9.46	2.50		11.07	f 4.17		160.5	<u> </u>	ATHLONE	67.6
78	P	1.45	6.06	9.56	2.57		11.14	f 4.25	12.11	166.9	_	MINTURN	74.0
	WYP		<u> </u>					8 4.30		168.2	TC		75.3
76	P	1.56	6.15	10.11	3.06		11.21	f 4.36	12.16	173.0		FAIRMEAD	80.1
70	WTP	2.03	6.24	10.21	3.15		11.25	f 4.40		176.5		3.5 BERENDA	83.6
98		2.09	6.30	10.27	3.25		11.28	4.43	12.23	179.2	<u> </u>	NOTARB	86.3
139	Yard Limits P	2.18	6.37	10.35	3.33	8	11.43	s 5.00	s 12.30	183.9	<u>TC</u>		91.0
77	P	2.28	6.46	10.51	3.43		PM 11.52	5.10	12.37	190.2	_	IRRIGOSA	97.3
78	P	2.40	6.53	11.02	3.50		AM 12.01	f 5.18	12.43	195.6	_	HERNDON	102.7
。「_	IP	· .					=	· .		199.2	$ \ _{-}$	BIOLÄ JCT.	106.3
Fresno yard	KP							1		200.2	TC	P-R MUSCATEL	107.3
Fresn	BKWP	3.00 AM	7.05 PM	11.15 AM	4.00 AM		12.10	5.28	12.50	201.8	R.	FRESNÓ YARD	108.9
	вкиотур					8	12.23 AM	s 5.40 PM	s 1.00 PM	205.5	LTC)-R FRESNO	112.6
		Arrive Dail	Arrive Daily	Arrive Daily	Arrive Daily Ex. Sun. , Mon.		Arrive Daily	Arrive Daily	Arrive Daily			(112.6)	
		(3.30) 31.10	(3.30) 31.10	(3.25) 31.10	(3.30) 31.10		(2.57) 38.70	(4.00) 28.15	(2.27) 45.95			Time over District verage Speed per Hour	

RULES 86 and 93. Second and third class trains, extra trains and engines, except trains handling passenger equipment only, must clear time of Nos. 51 and 52 not less than 10 minutes and must be clear of main track and insulated joints at meeting and passing points for Nos. 51 and 52.

ADDITIONAL STA	TIONS	·	ADDITIONAL ST	ATIONS	
NAME	Mile Post	Capac- ity	NAME	Mile Post	Capac- ity
Fresno line Coronet. (Spur) Covell. Alcant. Arena. (Spur) Buhach. (Spur) Creegan. (Spur) Labranza. (Spur)	100.6 108.1 129.3 138.9 144.8 151.9 163.3	28 16 16 25 21	Fresno line Sierra Vista(Spur) Borden	165.8 186.7	24 25

No. 56 make an additional stop on flag at mail crane 1650 feet east of station building Keyes, to exchange mail. No. 56 reduce speed to 10 MPH at Delhi and Atwater to dispatch

papers.

No. 60 reduce speed to 5 MPH at Chowchilla daily except Sunday and holidays to receive mail.

				MERC	CED SI	JBDIVISION	,					17
						WI	ESTWA	RD		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
4	Timetable No. 243	8		FIF	RST CLAS	S	1		THIRD	CLASS		
Mile Post Location	July 6, 1947	Distance from Fresno	59 West Coast	55 Passenger	51 San Josquin		421	423	425			
		_	Arrive Daily	Arrive Daily	Daylight Arrive Daily		Freight Arrive Daily	Freight Arrive Daily	Freight Arrive Daily		.	
02.0	STATIONS (TO-R LATHROP	112.6	AM	PM	PM		Arrive Daily AM	PM	PM			
92.9	0.9 WPRR Crossing	111.7	6.35	8 2.40	<u>5.36</u>		5.55	12.55	9.10	<u> </u>		
96.8	3.0 TO MANTECA	108.7	6.29	s 2.27	5.31	·	5.48	12.49	8.59			
99.4	2.6 CALLA	106.1	6.26	2.24	5.28		5.43	12.44	8.53			<u> </u>
103.3	TO RIPON	102.2	6.22		5.25		5.36	12.38	8.46			<u>-</u>
106.4	3.1 SALIDA	99.1		s 2.05	. 5.25	- 1	5.31	12.33	8.41		<i>i</i>	<u> </u>
113.1	TO-R MODESTO	92.4	li .	s 1.50	8 5.15		/5.21	12.23	8.31			
114.7	1.6 TSRy Crossing	90.8					75.21	12.20		-		-
117.4	2.7 CERES	88.1	5.54	s 1.14	5.06		5-12	12.14	8.22		-	
120.8	3.4 KEYES	84.7	li	f 1.08	5.02		5.06	12.08 PM	8.15			-
126.2	TO TURLOCK	79.3	l	s 12.52			4.58	11.59 AM	8.05			
131.9	5.7 DELHI	73.6		f 12.46	4.48	<u> </u>	4.49	11.50	7.55			
136.4	TO LIVINGSTON	69.1	!	s 12.36	4.44	<u> </u>	4.40	11.37	7.45			-
143.2	E TO ATWATER	62.3	11	s 12.30	4.38		4.15	11.04	7.22			
147.4	FERGUS	58.1	5.17	12.20	4.34		4.07	10.56	7.16			
150.5	3.1 TO-R MERCED	55.0			8 4.30		4.02	10.50	7.10			-
156.6	LINGARD	48.9	4.58	11.38	4.21		3.52	10.40	7.01			-
160.5	LINGARD 3.9 ATHLONE	45.0	4.54	11.34	4.17		3.44	10.32	6.53			<u> </u>
166.9	6.4 MINTURN	38.6	4.48	11.28	4.11		3.34	10.22	6.43			
168.2	TO CHOWCHILLA	37.3		s 11.26								
173.0	FAIRMEAD	32.5	4.42	f 11.16	··········		3.23	10.11	6.31			-
176.5	3.5 BERENDA 2.7	29.0	4.38	11.11	4.01		3.15	10.04	6.24			-
179.2	NOTARB	26.3	4.35	11.08	3.58		3.08	9.58	6.18	_		. , , .
183.9	4.7 TO MADERA 6.3	21.6	s 4.30	s 11.03	s 3.53		3.02	9.49	6.09			
190.2	IRRIGOSA	15.3	4.21	10,51	3.46		2.50	9.39	5.59		· · · · ·	
195.6	HERNDON 3.6	9.9	4.16	f 10.46	3.41		2.40	9.30	5.50	.		
199.2	BIOLA JCT.	6.3		-								
200.2	TO-R MUSCATEL	5.3										,
201.8	R FRESNO YARD	3.7	4.08	10.38	3.35		2.30 AM	9.20 AM	5.40 PM			
205.5	TO-R FRESNO	0.0	4.00 AM	10.30 AM	3.28 PM							
	(112.6)		Leave Daily	Leave Daily	Leave Daily		Leave Daily	Leave Daily	Leare Daily			
	Time over District	,	(2.35) 43.58	(4.10) 27.02	(2.08) 52.78		(3.25) 31.87	(3.35) 30.34	(3.30) 31.10			

RULES 86 and 93. Second and third-class trains, extra trains and engines, except trains handling passenger equipment only, must clear time of Nos. 51 and 52 not less than 10 minutes and must be clear of main track and insulated joints at meeting and passing points for Nos. 51 and 52.

No. 59 will not stop at station at Lathrop.

Nos. 59, 421, 423 and 425 will use east leg of wye at Lathrop.

No. 55 make an additional stop on flag at mail crane 1650 feet east of station building Keyes, to exchange mail.

18						NILI	es sui	BDIVIS	SION					
	-			ΕA	STWA	RD								
		•			SEC	OND GL	ASS				s t		Timetable No. 243	Jet.
Capacity	of sidings						402	444	406	472	Mile Post Location		July 6, 1947	Distance from Redwood Jet.
							В. М.	C. C. M.	Freight	Freight	_			Mark Mark
	·						Leave Daily Ex. Sat., Sun.	Leave Daily Ex. Sat. , Sun.	Leave Dafly	Leave Dafly			STATIONS	
ate	WIYP						PM 8.40	PM 8.00		AM 1.20	26.2	T	O-R REDWOOD JCT.	
Yd.Lmt											27.5		End of Double Track	1.3
64	P						8.47			1.27	29.5	_	HENDERSON 4.4	3.3
51	P						8.54		AM	1.34	33.9	_	DUMBARTON	7.7
100 Yard I	imits WIYP		. 				9.20	8.20	6.05	1.55	37.2	T	O-R NEWARK	11.0
51	. Р						9.25		6.10	2.00	40.1	_	2.9 CENTERVILLE 1.6	13.9
<u> </u>	Р				i		9.28	8.26	6.25	2.03	41.7	-	SHINN 0.7	15.5
Vard Limits	IYP						9.30	8.28 PM	6.30	2.05	42.4 43.0	System	O-R NILES TOWER	16.2
λ. L	· 						9.32	<u>-</u>	6.33	2.07	29.6	k Sys	NILES JCT.	16.8
76	PP						9.37	 :	6.38	2.12	31.7	natic Biock	2.1 FARWELL 3.9	18.9
91	Р			•••	·		9.47		6.49	2.22	35.6	matic	SUNOL.	22.8
73	Р						9.58	<u> </u>	7.00	2.33	40.9	Auto	5.3 O PLEASANTON	28.1
	IYP		 								42.0	T	O RADUM	29.2
Z 1-110, 2 Yard I	2-105 YP					<u></u>	10.02	ļ	7.04	2.37	43.0	_	ELIOT	30.2
1-79, 2-80	BKWP					-, ,.	10.11	<u></u>	7.12	2.46	46.9	T	O-R LIVERMORE 3.6	34.1
72 Yard I	P		-				10.18		7.19	2.53	50.5		ULMAR 4.5	37.7
88	WTP						10.30	<u></u>	7.29	3.05	55.0	T	O ALTAMONT 4.5	42.2
72	P		·				10.42		7.40	3.17	59.5	_	CAYLEY	46.7
69	P						10.55	<u> </u>	7.52	3.30	63.1	-	3.6 MIDWAY 7.7	50.3
BK	yard WOTYP	<u></u>					11.10 PM	Amina Dan-	8.10 AM	3.45 AM	70.8	ĮΤ	O-R TRACY	58.0
							Ex. Sat., Sun.	Arrive Daily Ex. Sat., Sun.	Arrive Daily	Arrive Daily			(58.0)	
							(2.30) 23.20	(0.28) 34.71	(2.05) 22.56	(2.25) 24.00			Time over District Average Speed per Hour	

RULE 5. Schedule time and train-order time at Redwood Jct.
apply at end of double track.
Schedule time and train-order time for eastward trains holding main track at Eliot apply at crossover known as California link.

					NIL	ES SU	BDIVIS	SION						19
			. '					WF	ESTWAI	RD				-
	Tim	etable No. 243	명			-		TF	HIRD CLAS	.ss			-	
Mile Post Location	1.	July 6, 1947	Distance from Tracy	401	429	409	433	413	437				,	` `
물고		1	Dista	Freight	Freight	Freight	Freight	Freight	Freight	1			, ,	
	1	STATIONS	'	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily					
26.2	TO-R R	EDWOOD JCT.	58.0	AM 3.10		AM 10.55		PM 6.40		(+	
27.5	End	of Double Track	56.7	3.10		10.55		8.40		(
29.5		HENDERSON 4.4	54.7	3.04		10.49		6.34		(· · · · · · · · · · · · · · · · · · ·		 	
33.9		DUMBARTON 3.3	50.3	2.56		10.41		6.26		1	-			
37.2		NEWARK 2.9	47.0	2.49		10.34		6.19		1				1
40.1	CI	ENTERVILLE 1.6	44.1	2.43		10.28		6.13		(
41.7		SHINN 0.7	42.5	2.40		10.25		6.10		()				
42.4		ILES TOWER	41.8	2.38	AM 3.08	10.23	AM 10.53	6.08	PM 6.38	1				
43.0 29.6	8	NILES JCT.	41.2	2.37	3.07	10.22	10.52	6.07	6.37	<u> </u>	(<u> </u>			-
31.7	일 /	FARWELL 3.9	39.1	2.33	3.03	10.18	10.48	6.03	6.33	·				
33.0		SUNOL 5.3	35.2	2.22	2.53	10.08	10.38	5.53	6.23					
	TO PI	LEASANTON 1.1 RADUM	29.9	2.12	2.42	9.57	10.27	5.42	6.12	·				· ·
42.0	10	RADUM 1.0 ELIOT	28.8	<u> </u>	<u></u> _ا	1	1222	1 20		·]	
46.9	70.8	3.9 LIVERMORE	27.8	2.08	2.37	9.53	10.23	5.38	6.08	· · · · · · · · ·		<u> </u>		
50.5	10-2	3.6 ULMAR	23.9	2.00	2.30	9.45	10.15	5.30	6.00	·	. '	<u> </u>		
55.0	TO A	4.5 ALTAMONT	20.3 15.8	1.53	2.23	9.38	10.08	5.23	5.53	·'	.			4 :
59.5		4.5 CAYLEY	11.3	1.42	2.12	9.27	9.57	5.12	5.42	·'			ļ!	4
63.1		3.6 MIDWAY	7.7	1.32	1.50	9.17	9.47	4.50	5.32	·'			ļ!	-
70.8	TO-R	7.7 TRACY	0.0	H 1	1 1		1	1		<u> </u>	·			
1	[1.00 AM	1.30 AM	8.45 AM	9.15 AM	4.30 PM	5.00 PM	('	 			
1	7:	(58.0)		Leave Daily	Leave Daily			Leave Dally	Leave Daily	·'	4	<u>-</u>	<u> </u>	<u> </u>
/ ·	Averag	e over District ge Speed per Hour	1 "	(2.10) 26.76	(1.38) 25.69	(2.10) 26.76	(1.38) 25.69	(2.10) 26.76	(1.38) 25.69	()	1		, J	
ı 											,====			
1	EA	STWARD					240	E E	WESTY		ı			
1	,	THIRD CLAS		Mile Post Location		etable No		rce frc	SECOND	CLASS	1 .			
Capacity	y of sidings	437 433 Freight Freight	429 Freight	ŽŽ	J	July 6, 1947	1	Distance from San Jose Yard	444 c.c.m.					
	7	Leave Daily Leave Daily I	Leave Daily	, r		STATIONS	S	7 7	Arrive Daily	-				

EASTWARD							E 79	WEST	WARD
,	TH	IIRD CLA	SS	Post		Timetable No. 243	from Yard	SECOND	CLASS
Capacity of sidings	437 Freight	433 Freight	429 Freight	Mile Post Location		July 6, 1947	Distance San Jose	444 c. c. m.	
	Leave Daily	Leave Daily	Leave Daily			STATIONS		Arrive Daily Ex. Sat., Sun.	
₹ 70 KWYP IYP				29.2	Γ	TO-R NILES	18.5	PM 8.30	
E IYP	PM 6.38	AM 10.53	AM 3.08	29.8		TO-R NILES TOWER	17.9	8.28 PM	
33 P	6.48	11.03	3.18	32.8	8.58 8.08	1RVINGTON	14.9		
37 P	7.08	11.23	3.38	40.7	4	7.9 MILPITAS	7.0		
P	<u> </u>			43.3		WAYNE	4.4		
San Jose yard BKWOITYP	7.30 PM	11.45 AM	4.00 AM	47.7	L	R SAN JOSE YARD	0.0		
	Arrive Daily	Arrive Daily	Arrive Daily			(18.5)		Leave Daily Ex. Sat., Sun.	
	(0.52) 21.60	(0.52) 21.60	(0.52) 21.60			Time over District Average Speed per Hour		(0.02) 15.00	

ADDITIONAL STATIONS						
NAME	Mile Post	Capac- Ity				
Tracy line Ravenswood (Spur) Dresser (Spur) Remillard (Spur) Trevarno (Spur)	30.9 30.9 42.4 48.4	130P 15 16P				

RULE 5. Schedule time and train-order time at Redwood Jct. apply at end of double track.

Schedule time and train-order time for eastward trains holding main track at Eliot apply at crossover known as California link.

NILES SUBDIVISION

	E								$\overline{}$
	EAST	WARD						·	
THIRD CLA	ss		FIRST	CLASS			, , , , , , , , , , , , , , , , , , ,	Timetable No. 243	76. 76.
422 Freight	418 Freight	74 Oakland Lark	336 Oakland C. M. E.	40 W. P. Passenger	2 W. P. Passenger	250 Passenger	Mile Por Location	July 6, 1947	Distance from Oakland Pier
Leave Dally	Leave Daily Ex. Sunday	Leave Daily	Leave Daily Ex. Sat., Sun.	Leave Daily	Leave Daily	Leave Daily	l]	STATIONS	
		PM 8.00		PM 6.00	AM 10.00	AM 7.00		SAN FRANCISCO	
		8.20		6.20	10.20	1		OAKLAND PIER	<u> </u>
		PM 8.28		PM 6.30	AM 10.35	AM 7.25	3.5		0.0
PM 8.45	AM 9.00		РМ 7.30				4.9		1.4
				6.38 PM	10.43 AM		5.9	MAGNOLIA TOWER	2.4
		s 8.42				s 7.39	6.7	OAKLAND (First Street)	3.2
		s 8.50				s 7.47	9.7	FRUITVALE 6	6.2
9.30	9.25	8.58	7.50			7.55	13.4	TO-R ELMHURST 9	9.9
9.44	10.00	9.06	8.01			8.04	20.2	RUSSELL 16	16.7
9.55	11.00	9.12	8.10			8.10	25.3	TO ALVARADO 21	21.8
10.10	11.20 AM	9.19	8.25			s 8.20	30.6	TO-R NEWARK 27	27.1
10.20		9.24	8.32			8.25	34.1		30.6
		9.30				8.31	39.1	ALVISO 35	35.6
10.38		f 9.35	8.45			8.35	41.7	TO AGNEW 38	38.2
10.45 PM		9.40					44.8	TO-R SANTA CLARA 41	41.3
	9.30 9.44 9.55 10.10 10.20	### THIRD CLASS ### 422	### Freight PM PM PM PM PM PM PM P	### Fight Freight PM Read PM Read Read	### First Class First Class First Class Freight Freight Freight Leave Daily Ex. Stat., Sun. PM 6.00 6.20 PM 8.00 FPM 6.30 PM 8.28 FPM 6.30 PM 8.28 FPM 6.30 PM 8.45 9.00 7.30 FM 8.45 9.00 9.06 8.01 9.30 9.25 8.58 7.50 9.44 10.00 9.06 8.01 9.55 11.00 9.12 8.10 10.10 AM 9.19 8.25 10.20 9.24 8.32 9.30 9.25 9.30 10.38 f 9.35 8.45	THIRD GLASS	### Company of Passenger Pas	THIRD CLASS	THIRD CLASS

Time at San Jose for information only.

See Coast Division timetable for train movements between Santa Clara and San Jose.

			2.50				8:45	İ	SAN JOSE /	
	Arrive Daily		Arrive Daily	Arrive Daily Ex. Sat., Sun.	Arrive Daily	Arrive Daily	Arrive Daily		(41.3)	
	(2.00) 19.95	(2.20) 10.01	(1.12) 34.41	(1.20) 29.92	(0.08) 18.00	(0.08) 18.00	(1.15) 33.04		Time over District	

RULE 5. Schedule time and train-order time on Elmhurst-Santa Clara line at Newark apply at siding east of station building. Sections of WPRR first-class trains may display signals between Oakland Pier and Magnolia Tower (WPRR Chestnut Jct.), in either

direction without train-order authority.

Registration of sections of WPRR first-class trains terminating at WPRR Chestnut Jct. and moving to WPRR Oakland Yard, may be phoned from WPRR Oakland Yard to Operator SP, Oakland Pier, for entry on register at Oakland Pier.

No. 74 stop on flag at Drawbridge Friday and Saturday.

ADDITIONAL STATIONS							
NAME	Mile Post	Capac- ity					
Banta Clara line East Oakland Mulford Robert Mt. Eden Baumberg (Spur) Hall (Spur) Drawbridge Niles line Estudillo Halvern	8.3 15.5 17.8 21.5 23.0 26.2 36.5 16.5 24.0	70 P 20 P 21 P 10 P 9 P 35 P					

EASTWARD			WESTY	WARD
Capacity of sidings	Mile Post Location	Timetable No. 243 July 6, 1947	Distance from Niles Jet.	SECOND GLASS 444 c. c. m.
	-	STATIONS	ă	Arrive Daily Ex. Sat., Sun.
gg WP	13.4	TO-R ELMHURST	16.2	PM 9.08
Dakland yard dA	14.8	E TO SAN LEANDRO	14.8	
35 P	17.5	TO SAN LEANDRO 2.7 LORENZO	12.1	
Yard Limite 100 P	20.1	TO HAYWARD	9.5	8.52
32 P	26.5		3.1	
e≣ 70 KWYP	29.2	DECOTO 2.7 TO-R NILES	0.4	8.30 PM
2	29.6 43.0	NILES JCT.	0.0	
		(16.2)		Leave Daily Ex. Sat., Sun.
		Time over District		(0.38) 24.94

RULE 5. Schedule time and train-order time for westward trains via Decoto at Niles apply at junction switch located 550 feet west of station building.

Time at San Jose for information only. See Coast Division timetable for train movements between Santa Clara and San Jose.

5.10 PM

 $7.\overline{5^2}$

7.15 AM

SAN JOSE		7.10 AM			5,05					
(41.3)	Leave Daily	Leave Daily Ex.Sun., Mon	Leave Daily	Leave Daily	Leave Daily	Leave Daily Ex. Sat., Sun.	Leave Daily	Leave Daily	Leave Daily Ex. Sunday	
Average Speed per Hour	(0.10) 14.40	(1.25) 28.17	(1.28) 28.14	(0.12) 12.00	(1.15) 33.04	(0.22) 23.18	(2.00) 19.95	(0.25) 34.08	(2.20) 10.01	

RULE 5. Schedule time and train-order time on Elmhurst-Santa Clara line at Newark apply at siding east of station building. Sections of WPRR first-class trains may display signals between Oakland Pier and Magnolia Tower (WPRR Chestnut Jct.), in either direction without train-order authority.

0.0

TO-R SANTA CLARA

44.8

direction without train-order authority.

Registration of sections of WPRR first-class trains terminating at WPRR Chestnut Jct. and moving to WPRR Oakland Yard, may be phoned from WPRR Oakland Yard to Operator SP, Oakland Pier, for entry on register at Oakland Pier.

No. 73 stop on flag at Drawbridge Wednesday and Saturday.

5.40 AM

4.30

			·
	EAST- WARD	Timetable No. 243	WEST- WARD
Capacity of sidings	ost	July 6, 1947	from
	Mile Post Location	Stonehurst Branch	istance Stonehu
	21	STATIONS	Dist
Oakland yard yard	13.4	ELMHURST	0.9
8	14.3	0.9 Stonehurst	0.0
		(0.9)	Shaker of

RULE A. All, or portions of, the following rules have been changed. Pasters have been printed covering these changes, and employes must have the pasters in their copy of Book of Rules:

Rules 10(H) 295 297 26 99 104(D) 210 763 221 271

Definition of FIXED SIGNAL is changed to read as follows: "A signal of fixed location indicating a condition affecting the movement of a train, such as train-order, automatic, interlocking or absolute signal; switch, stop boards, yard limit boards or speed

RULE 2 (A). Watches subject to inspection must be pre-sented monthly between first and fifteenth, instead of semi-monthly, to a designated inspector.

RULE 4. Designated holidays: New Year's Day, January 1st Washington's Birthday, February 22nd. Decoration Day, May 30th, Independence Day, July 4th. Labor Day, first Monday in September. Thanksgiving Day, fourth Thursday in November. Christmas Day, December 25th.

RULE 10 (J) is revised to read as follows:

Speed boards will be located to the right of track in direction of approach where practicable, except on double track where trains keep to the left, they will be located to the left if proximity of ad-

joining main track prevents location to the right.

Speed boards that prescribe reduction in speed will be located three-fourths mile from initial point of restriction. Speed boards that authorize an increase in speed will be located at the point where higher speed is permissible, and speed may be increased accordingly as soon as rear of train has passed the speed board.

(no change in Figs. 1, 2 and 3) The higher number on speed board indicates the maximum speed of trains consisting entirely of passenger equipment, and the lower number indicates the maximum speed of all other trains. Where but one number is shown it indicates the maximum speed of

Round yellow speed boards indicate by black figures the maximum speed of certain passenger trains designated by special instructions in the timetable or by timetable bulletin; speed indicated by oval white speed boards applies to those trains unless a round yellow speed board is displayed on same post below the oval speed board.

Certain speed boards have the word "SIGNAL" above the fig-

ures. Such speed boards in approach to a distant signal indicate the speed that must not be exceeded while engine is passing the distant signal three-fourths mile beyond the speed board, unless distant signal can plainly be seen to be displaying proceed indication; and such speed boards in approach to a home signal indicate the speed that must not be exceeded while approaching the home signal three-fourths mile beyond the speed board, until indication of home signal can plainly be seen. The word "SIGNAL" on an oval speed board also applies to a round yellow speed board if displayed on the same post.

RULE 17. Oscillating white light on engines so equipped is to be operated in addition to headlight, when engine is moving at night, and in foggy or stormy weather by day. It must be extinguished approaching passenger stations.

Oscillating red light on engines so equipped shall be operated by day or night, only when a train has stopped, or is stopping, under circumstances that may cause an adjacent track to be fouled, and will not in any way relieve trainmen and enginemen from compliance with Rules 99 and 102. A train or engine on adjacent track must stop at once, and may proceed only after ascertaining that track is safe for passage of trains.

RULES 17, 17 (B), 17 (C), and S-17. Headlight will be displayed by day on Nos. 101, 102, 51, 52, 53 and 54 as an aid to motorists. When so displayed, the provisions of Rules 17, 17 (B), 17 (C) and S-17 will not apply unless other conditions require.

ULE 28. In double track territory signals will be placed to right of track according to direction of movement of train to be flagged. Trains in opposite direction will not be required to observe signals so placed.

RULE S-72. Westward trains are superior to trains of the same class in the opposite direction.

RULE 98. Cars must not be kicked or shoved over railroad crossings not protected by interlocking, unless movement is properly protected.

RULE 99 (C). Will apply on Berenda, Chowchilla, Ione, Lodi, Oakdale and Winters Branches; on Napa Branch between Napa and Calistoga, and on San Ramon Branch between Avon and Dougherty.

RULE 102. Yard engines must have two red flags and two red lamps for use in complying with this rule. If taken from engine they must be replaced after use.

RULE 103 (A). No train, engine, motor or car shall be operated over any crossing where special signs appear, reading:

STOP-FLAG HIGHWAY TRAFFIC, or CAUTION-FLAG HIGHWAY TRAFFIC

unless same be first brought to a stop or caution observed (as indicated by sign) and traffic on crossing protected by member of train crew or other competent employe acting as flagman.

RULE 105. Sidings designated "E" in Capacity of sidings column are assigned for use by eastward trains; those designated "W" are assigned for use by westward trains. Those designated "M" for middle, may be used by trains in either direction. Those designated "N," "S," "1," "2" or "3" are assigned for use by trains as shown in special instructions for the subdivision on which located.

RULE 107. Freight trains and engines must avoid passing between stations and loading tracks when passenger trains are closely approaching from opposite direction on double track, and care must be exercised by non-stopping passenger trains when approaching stations at about the same time that other passenger trains are approaching from the opposite direction. When practicable non-stopping trains are to be given preference, but each train must be operated in a manner to avoid confusion and hazard of personal injury.

RULE 505. AUTOMATIC BLOCK SYSTEM ELECTRIC SWITCH LOCKS

Where electric switch locks are installed, lock box door must not be opened if movement is to be made into a track leading from main track until engine or car is standing within 150 feet of the switch; or if movement is to be made from such track, or through a crossover to a main track, until switch indicator indicates block clear on opposite track. Within C.T.C. limits dispatcher's permission must also be obtained before lock box door is opened.

After lock box door is opened lock lever cannot be moved to opposite position to release switch for hand throwing until indicator

in lock box indicates "unlocked".

Lock lever must not be returned to locked position until all movements over the switch are completed, switch returned to normal position and locked, after which lock box door must be closed and locked. Within C.T.C. limits dispatcher must also be notified by telephone when completed.

When switch indicators indicate "block occupied", instructions posted inside lock box for operation of push button to start timerelease must be complied with if movement is to be made to main track while approach circuit is occupied by another train, in addi-

tion to providing flag protection when necessary.

Emergency lock release to be used only in case of electrical or mechanical failure, as indicated by failure of time-release to function after several minutes. When necessary to break seal on emergency lock release, dispatcher must be notified immediately. and movement made only after flag protection provided on both tracks.

Low type electric locks, such as are applied direct to lever of hub type switch stands, function as above except that the removal of the switch padlock has the same effect as opening the lock box door. Instead of being equipped with an "unlocked" indicator, these locks have a pilot light that indicates by illumination when the lock is unlocked.

When pilot light will not illuminate to indicate electric lock is unlocked, push button on adjacent cast iron box, protected with cover and locked with switch padlock, should be depressed to illuminate green light. After a time interval of from one to seven minutes pilot light on electric lock will be illuminated, indicating lock is

unlocked.

Emergency lock release is applied to side of electric lock. It is to be used only in case of electric or mechanical failure, as indicated by failure of time release to function after several minutes. When necessary, break seal and operate emergency lock release by turning knob one-half turn to right. Dispatcher must be notified immediately and movement made only after flag protection is provided on both tracks.

RULE 535. A spring switch with facing point lock must not be trailed through unless switch target displays the letters "SS" in normal position, or switch has been lined for the movement.

When a signal with triangular number plate protecting a spring switch with facing point lock displays stop indication, member of crew must open and close spring switch by hand, removing any obstruction. If signal does not then display proceed indication, switch must be hand thrown for the movement.

When a spring switch or spring derail is hand thrown, trainman so setting same must again set it for normal position after movement has been completed, unless he has arranged for another train-

man to do so.

RULE 536. Wheels of tenders must not be considered as engine wheels.

RULE 605. INTERLOCKING

Trains and engines must not enter main track within interlocking limits where no signal governs such movement until permission has been obtained from signal operator, and must then run with caution not exceeding 12 MPH to the next signal.

Movements governed by short-arm or dwarf signals must be made with caution and position of switches observed, as such signals

govern movements for various routes.

At all interlockings, when route lined is not to be used, following signal will be sounded by engineers: o o - o o.

GENERAL REGULATIONS

RULE 822. Riding on leading foot-hoard or pilot step of engine when passing over highways, crossings or on streets is forbidden.

RULE 825. Fifth paragraph applies to wooden outfit cars the same as to other cars, except that diner should not be separated from kitchen car

RULE 827. TRAIN INSPECTION

Trains, including military trains, made up in part of freight cars or caboose equipped with cast iron wheels are required to comply with rules and timetable instructions applying to freight trains as they relate to stopping for train inspection, and speed restrictions.

Cars bearing placards denoting contents are explosive, inflammable, poisonous, or otherwise dangerous, must be given careful

inspection at all points where train inspection is made.

On freight trains, when conditions are favorable and in judgment of conductor it is safe, run may be made without stopping for inspection from one water stop to next water stop, except that a distance of seventy (70) miles must not be exceeded between inspections.

RULE 849. Steam valve on Pullman troop sleepers cannot be opened while train is in motion, and when such car is on rear of train steam line must not be cut in any portion of train until valve is closed on the car on each side of coupling to be opened, to avoid burning by steam.

RULE 851. When necessary to discharge passengers on left side of train on double track, trainmen must caution passengers that trains may approach on opposite track, and use precaution to avoid

RULE 873. Sanders must not be operated within 150 feet of any power operated switch.

AIR BRAKE RULES

RULE 9. Passenger trains of more than 25 cars must be handled under freight train rules.

MISCELLANEOUS

Helper service:

No helper engine will be placed behind wooden underframe cars or cabooses.

Engines weighing more than 235,000 pounds on drivers will not

be placed behind steel underframe cabooses.

In no case will more than one helper engine be placed behind

steel underframe cabooses.

Except as provided below, one helper may be placed on head end, but not more than two engines will be used on head end of any freight train. When additional helpers are required, they will be placed back in train, and cut in ahead of any cars of wooden frame construction. Westward between Tracy and Niles if train consists of more than 49 cars, and eastward if train consists of more than 75 cars when only one helper is required it will be placed on rear ahead of caboose and any wooden frame cars, and when practicable should be placed hehind a loaded car.

Where coupling of engines is not permitted, such engines must

be separated by at least ten cars.

Air will be cut in all helper engines, and engine must not be

cut off when train is in motion.

When used as helpers, AC, AM or MM class engines must not be coupled together, nor may more than two F, Mt, or heavier class be coupled together. When coupled in rear of train, larger engines must be placed ahead of smaller engines. If tonnage requires more power, additional helpers of not to exceed two coupled in each case, must be separated by at least four cars.

Helpers must not be operated backing except in emergency, and in such case engines should not push through a backing engine

if it can be avoided.

Helper engines coupled in middle or rear of train must be cut off from forward portion before taking water. On grades, road engine and helper must not be cut off from train at the same time without hand brakes being securely set.

4 (a). Pushing trains out of yards: No engine will be placed behind a wooden underframe caboose or other wooden frame equipment.

Engines weighing more than 235,000 pounds on drivers will not be placed behind steel underframe cabooses.

Air will not be coupled through pusher engine, except when pushing trains between Port Costa and Bahia, air must be coupled through pusher engine. Eastward trains must stop with rear of train

Other yard engines regularly so used will be equipped with Russell-Jordan device to hold coupler pin from dropping, thus making it unnecessary for employes to uncouple pusher engine when

cutting off.

In no case shall knuckle be removed, or closed, or cutting lever temporarily fastened in release position on a pusher engine, as means of preventing coupling being made.

Unless local conditions require, it will not be necessary to stop

trains to detach pusher engines.

7. Capacity of sidings column indicates the number of cars of average length of 49 feet that siding will hold between fouling points, in addition to one engine and caboose.

10. When a sign reading "Occupied Outfit Cars" is attached to switch lock, the outfit cars must not be coupled to, nor moved, until occupants have been notified, and permission given by foreman or his representative.

Engines having blind drivers must not exceed 6 MPH over switches having self-guarded frogs and switch-point protectors.

20. Handling of freight cars in trains behind passenger cars is prohibited except passenger equipment may be placed in head end of mixed trains when carrying personnel and equipment in connection with military and naval movements. This does not refer to a baggage, express, or mail car, or a caboose.

Baggage, express, mail, refrigerator or other head end cars must not be handled on rear of passenger trains unless trainmen can pass through, except between Oakland Pier and Pittsburg.

21. Employes are warned that it is dangerous to ride on top or sides of cars while passing points where impaired clearance exists, and that they must protect themselves from injury.

There are numerous structures with impaired clearance on yard and station tracks on the division, and employes must be familiar

with their locations and avoid personal injury.

SPEED RESTRICTIONS

List of CCB (cross-counterbalanced) engines:

All F-1 class, except engs. 3618, 3639.

All F-3 class.

All F-4 class, except eng. 3700.

All F-5 class.

All B class, except engs. 3501, 3502, 3504, 3505, 3508, 3509.

MAXIMUM SPEED PERMITTED CERTAIN ENGINES

Maximum speed for S and SE class engines, 20 MPH, but must not exceed speed permitted freight and mixed trains and light en-

Steam or Diesel-electric engines backing must not exceed 20 MPH on all curves, and when approaching highway crossings at

grade.

Steam engines coupled tender to tender must not exceed speed

permitted same engines running light backward.

Engines with tenders having water capacity 7,000 gallons or less, except Classes 70-R-1 and 70-SC-1, must not exceed 50 MPH.

Maximum speed of engines under following conditions, running under own steam or hauled in train, must not exceed:

When all weight has been removed from any one pair

of drivers . When main rod only is removed................................30 MPH

When hauled in train with all rods on......30 MPH

When train order is received indicating that main track is out of service and that trains are to be detoured through a siding or other track, or over a shoofly, necessitating a reduction in normal train speed, signal 16(f) must be sounded on passenger trains one mile before reaching point where train must reduce speed, which must be acknowledged by whistle signal 14(g).

MAXIMUM SPEED PERMITTED WITH CERTAIN EQUIPMENT

MPH

Trains handling wooden pile-drivers; locomotive cranes with boom disconnected and heavy end forward; steam shovels and ditchers transported on their own wheels; and car-top ditchers when blocking and tie-down cables are removed: On tangent main tracks, except. SPMW 4044 On tangent branch tracks. On all curves 5 MPH less than speed authorized. Where speed boards in place, 5 MPH less than shown on speed boards, except where speed indicated is 15 MPH or less be governed by speed boards.	35 25 25
Trains handling locomotive cranes with boom discon- nected and light end forward (must not be handled in this manner except in emergency): On tangent main tracks	20
On curves and on branch tracks	15
On tangent main tracks. On curves and on branch tracks. Trains handling steel pile-drivers may make maximum restricted fregular replief curify with steep downst.	25 15
Trains handling relief outfit with steam derrick: On tangent main tracks On tangent branch tracks, except Nos. 7000 and 7010 on San Ramon Branch Nos. 7000 and 7010 must not operate between Larkmead and Calistoga on Napa Branch.	35 25 10
Nos. 7000 and 7010 must not operate between Edwin and Ione on Ione Branch unless authorized by Superintendent. If movement authorized, speed of 15 MPH must not be exceeded. Nos. 7014 and 7025 must not operate on any branch except Schellville Branch; Napa Branch between	
Suisun-Fairfield and Napa River Bridge 45.62 at Napa; and on Vallejo Branch between Napa Jct. and MP 30.6. On all curves, 5 MPH less than speed authorized. Where speed boards in place, 5 MPH less than shown on speed boards, except where speed indicated is 15 MPH or less be governed by speed	
hoards	

Passenger trains handling steel wheel baggage-express cars in series 5810 to 5874, and foreign line steel wheel cars not equipped with high speed trucks, must not exceed 60 MPH.

Wooden equipment must not be handled in regular passenger

trains. Extra passenger trains handling wooden coaches or chair cars

must not exceed 40 MPH. Trains pushing or backing passenger equipment must not ex-

ceed 15 MPH.

The following head-end cars will be considered streamlined equipment: 4119, 5065 to 5070, 5123 to 5125, 5127 to 5138, 5161 to 5163, 6029, 6083, 6085, 6204, 6448.

Maximum speed of deadhead equipment or passenger trains

with standard caboose is 50 MPH.

Trains consisting of steam or Diesel-electric engine and caboose only must not exceed speed permitted for engines of that class running forward light; such trains must not, in any case, exceed 40 MPH.

No. 335 (CMW), No. 336 (CME), Nos. 444 and 442 (CCM) and No. 402 (BM) may make maximum speed of 50 MPH using ordinary box cars, in territory where maximum freight and mixed train speed is shown as 40 MPH.

RULE 10 (J). Round yellow speed boards indicate by black figures the speed restrictions applying to Diesel-powered Streamliner Nos. 101 and 102.

RULE 11 (A). Lighted fusees must not be left burning on Suisun Bay bridge.

RULE 14 (d). As specified below, — — — o will be indication that flagman may return from west as prescribed by Rule 99:

Martinez.....Trains on Tracy line.

RULE 14 (e). As specified below, — — — — will be indication that flagman may return from east as prescribed by Rule 99:

Martinez Trains on Tracy line.
Napa Jct...... Trains on Schellville line.
Suisun-Fairfield ... Trains on Napa Jct. line.
Davis Trains on Woodland line.

RULE 14 (m). Whistle will not be sounded one mile before reaching stations between Oakland Pier and San Pablo.

RULES 17 and 17 (C). Headlights of engines standing at end of wharf at Oakland Pier must be extinguished when steamers are entering slip. Headlights of eastward trains must be extinguished while standing at Oakland Pier and dimmed until Oakland Pier Tower has been passed.

RULE 21 (C). Passenger engines to handle trains from Oakland Pier may display indicators before leaving West Oakland.

Indicators of engines on trains arriving Oakland Pier may be displayed until engine reaches roundhouse at West Oakland, and must be removed immediately on arrival at delivery track.

RULE 30. Between the hours of 9:00 PM and 6:00 AM engine bell must not be rung, except in emergency, in city limits of Napa.

RULE 82 (A). Second and third-class and extra trains to or from Western Division passing Sacramento will not obtain clearance at Sacramento.

Trains enroute Western Division via Sacramento or Brighton originating at Roseville, must obtain two clearances, one endorsed Sacramento Division, the other endorsed Western Division. Train orders addressed to such trains at Roseville will apply the same as if addressed to them at Brighton or Sacramento.

RULE 83 (A). At the following stations only trains indicated will register:

West Oakland
Port Costa
Suisun-Fairfield
Davis
Avon
Pittsburg

Trains originating or terminating

Sacramento. Trains originating or terminating, except second and third-class and extra trains passing Sacramento to or from Western Division.

Sacramento, 12th St. Eastward trains via Brighton and trains originating or terminating.

Extra trains will register at Napa Jct.

RULE 83 (B). At open train-order offices trains may register by ticket as follows:

Davis.....All trains to or from West Valley Subdivision, Sacramento Division.

RULE 84. Proceed signal 12 (c) must be used to start trains from Oakland Pier, except Streamliner No. 102 when communicating signal may be used.

RULE 93. When freight cars are moved from one point to another on main track within Oakland yard limits at night, a red light must be displayed on rear of rear car.

Yard limits in which the provisions of Rule 93 will apply are established at the following points:

West M	IP .	•	East MP
	Oakland	(Martinez line)	. 17.35
	"	(Niles line)	. 15.82
	"	(Alvarado line)	. 14.01
27.97	Port Costa.		. 39.24
, .	. "	(Benicia spur)	
	"	(Tracy line)	. 37.08
47.05	Suisun-Fair	ield	. 52.45
		(Napa Jct. line)	45.75
74.20	Davis		. 77.37
• • •	46	(Tehama line)	. 77.39
85.51	Sacramento		
131.60		(Stockton line)	

West M	P	Ea	st MP
37.50	Avon		38.90
	" (San Ram	on Branch)	39.35
39.53	Port Chicago	***************************************	42.93
46.31	Pittsburg		51.68
61.00			62.70
80.70		tinez-Los Banos line)	85.64
69.19	" (Nile	es-Lathrop line)	74.37
39.14	Napa Jct. (Cres	ston-Calistoga line)	38.21
00.11	" (Sch	ellville line)	38.86
	" (Val)	lejo line)	36.37
44.34			46.46
	Calinda	703	
70.82		End	
47.72	Schellville (Lor	nbard-Ignacio line)	38.94
		oma line)	49.70
31.81		End	track
75.00			78.00

RULE D-97 (A). Will apply between following points: Oakland Pier and Sacramento; Martinez and Mococo.

RULE 98. Railroad crossings at grade not interlocked:
Trains and engines must approach with caution, and may move
over the following crossings without stopping, if crossing clear and
no movement approaching on intersecting line:

Benicia. Government Ry., crossing of Benicia spur near Benicia arsenal. If signal 340 or 341 displays stop indication, flag protection must be provided on intersecting track before movement made over crossing.

Napa Jct. Big balloon track crossing of Calistoga-Vallejo main track. Schellville line trains using big balloon track need not stop.

Stop clear of the following crossings, then proceed if no movement approaching on intersecting line:

Napa Jct. Calistoga-Vallejo main track crossing of big balloon track. Calistoga-Vallejo line trains must stop.

Las Juntas. SNRy, crossing of San Ramon Branch.

RULE 103 (A). Bates. When any of the crossovers are used in vicinity of MP 11, switches must not be left open longer than necessary to complete move, as automatic crossing gates at Buchanan St., Albany, will remain down as long as one of these switches is open.

Suisun-Fairfield. When necessary for freight trains to make stop blocking crossings east of passenger station, they must be opened with least possible delay.

Napa. When switching on or across any street crossing, city ordinance requires that member of crew must protect crossing.

Public Utilities Commission orders require that trains and engines must stop, and member of crew must protect traffic on the following street or highway crossings before movement is made:

Suisun-Fairfield. Crossing Union Ave. when on siding, or when moving against current of traffic.

Thomann Crossing highway on Napa Valley Cooperative Winery spur.

VacavilleCrossing on Standard Oil spur.

RULE 104. The normal position of rigid switches at the end of double track and at junctions, is as follows: Avon San Ramon line, for siding. Suisun-Fairfield. Napa Jct. line, for westward siding. Napa Jct.....Schellville line, for Calistoga-Vallejo line at MP

Napa Jct. Suisun-Fairfield line, for Vallejo line, at MP 37.25. UnionCrossover switch near west end siding, for West Napa line.

Schellville Napa Jct. line, for NWPRR main track. Tracy......Niles line, for Martinez line.

Tracy.....End double track, for eastward track.

Tracy.....Los Banos line, for Niles line.

Napa Jct. Track known as little balloon is Schellville line main track, but east switch of little balloon track must be left lined for through movement between Schellville line and big balloon track. Wye connection between Suisun-Fairfield line and Calistoga line

is not main track, and switches at each end of this wye track must be left lined for the respective main track movements.

RULE 104 (A). Conductors and engine foremen must personally know that main track switches used by them are left locked when clearing main track for Streamliner Nos. 101 and 102.

RULE 105. Suisun-Fairfield. Eastward siding is first track south of eastward main track and leaves eastward main track 2280 feet east of MP 47; westward siding is first track north of westward main track and leaves westward main track 3000 feet west of MP 50; westward trains entering this siding will use crossover just west

Davis. Eastward siding is first track south of eastward main track and enters eastward main track 1200 feet east of Davis Tower. Westward siding is first track north of westward main track and enters westward main track 1960 feet west of MP 77.

Port Chicago. North siding is first track north of main track (on bay side), and south siding is first track south of main track. These sidings may be used by trains in either direction, or as directed by train dispatcher.

RULE 107. Station train indicators west of Crockett and Martinez displaying the illuminated word "Train", indicate a passenger train on westward track at station.

RULE 221. Light will not be displayed in train-order signals on Winters, Napa and San Ramon branches, except when train-order operator is on duty.

Trains must obtain clearance before leaving Napa Jct. and

Shellmound is train-order office for eastward second-class, third-class and extra trains only. When SA Signals on eastward track or freight lead indicate proceed, such trains must approach prepared to receive train orders.

Eastward second and third-class and extra trains must obtain

clearance before leaving Shellmound.

West Oakland and Avon are train-order offices for trains originating only.

RULE D-251. Will apply as follows:

RULE D-251. Will apply as follows:

On westward track Sacramento to Davis train-order office, provided proceed signal received from yardman at Front St., Sacramento (green flag by day, green light by night), except will not supersede the superiority of No. 101.

Proceed indication displayed by train-order signal at Davis and by eastward interlocking signal east of Davis Tower will be authority for eastward second and third-class and inferior trains to move irrespective of timetable superiority of No. 15 from Davis to Sacrairrespective of timetable superiority of No. 15 from Davis to Sacramento.

RULE 505. AUTOMATIC BLOCK SYSTEM

Tracy. Signals are numbered as automatic and are under control of switch tender. When "stop" is indicated, trains must stop and not proceed until "proceed" is indicated or proceed signal is given with green flag or green light by switch tender.

Eastward movements governed by dwarf light signals 710, 712,

Westward movements from Lathrop Subdivision governed by Signal 713 located 300 feet east of puzzle switch, the top light governs movement on main track and the lower light governs movement to hill or local yard, and dwarf light signal 715 located on right of eastward track 300 feet east of puzzle switch governs movement to all routes.

Westward movement from Los Banos Subdivision governed by Signal 823, located 300 feet east of puzzle switch, top arm governs movement on main track and lower arm governs movement to hill

or local yard.

Westward freight trains stopped by Signal 717, located east of overhead crossing east of Tracy, use telephone located on this signal, call switch tender at puzzle switch and be governed by his instruc-

Trains and engines stopped by Signal 709 may then proceed with caution if proceed signal received from yardman.

RULE 510. Following block signals equipped with a triangular number plate displaying the letter "P", have included in their control limits some special protective device:

Eastward Signals	Westward Signals
P-374 Spring switch, Napa Jct	••••
P-358 Spring switch, Mococo	P-359
(Pittsburg)	

RULE 516. Overlap posts:

......<u>E</u>astward trains.

RULE 535. SPRING SWITCHES

Spring switches equipped with facing point locks are located as follows, and speed indicated in Speed Restrictions table must not be exceeded while passing over them in facing movement, or in trailing through them:

Location	Normal Position
MococoEnd double trac	kWestward track

Spring switches not equipped with facing point locks are located as follows, and speed indicated in Speed Restrictions table must not be exceeded while passing over them in facing movement, or in trailing through them:

Location	Normal Position
PinoleWest end westward siding	Westward track
MartinezJunction switch	
Napa JctWest end big balloon	
- -	main track

Double switch indicator installed near spring switch at Pinole. Movements out of this siding must be made in accordance with provisions of tenth paragraph of Rule 99, Rules 512 (A) and 513.

Spring switches are also located on other tracks as follows: West Oakland. Two on incoming engine leads, east of roundhouse; two on outgoing freight engine lead, near tin shop, and one on outgoing engine lead west of roundhouse.

Oakland Pier. West end of tracks 4, 5 and 6.

Stege. On stem of wye.

Tracy. Spring derail on sewer lead, just west of roundhouse leads.

RULE 605. INTERLOCKING

On double track within Oakland yard limits signal operator may arrange to move trains from one tower to another against the current of traffic, after having an understanding by telephone for each movement. Before moving trains against current of traffic signal operator must know that track to be used is clear of opposing engines and trains.

Oakland Pier. Limits extend eastward to automatic Signal 40 on eastward main track and to home signal 450 feet east of Signal 40 on westward main track on Martinez line, and to automatic Signal 42

on both main tracks on Niles line, and on yard tracks 9 and 10 to Signal 44; and on yard tracks 11, 12 and 13 to home signal 175 feet east of Maritime overpass.

When siren whistle is sounded, all movement must stop and

await proper signal.

The last signal governing movement into any track except tracks 17, 18, 19 and 20 is a two-arm dwarf signal. When home signal displays proceed indication, and approach signal displays yellow aspect, it indicates that movement is to be made into a track occupied by engines or cars. Responsibility for collision will rest with train or engine entering.

Sixteenth St. Tower, Oakland. Limits extend from eastward signal 1500 feet west of 14th St., to Signal Bridge 204.

Whistle signals:

To West Oakland yard, o -

From AT&SFRy interchange to Oakland Pier, -

To AT&SFRy interchange, o - o. Telephone to Sixteenth St. Tower and West Oakland Tower are on lattice pole 1733, 250 feet east of Signal Bridge 200, and on signal case 30 feet west of junction of freight tracks 1 and 2, to be used when necessary to obtain permission to pass signals as prescribed by Rule 663 (b).

Within limits of Sixteenth St. Tower, Oakland, trains may occupy main track without rear end protection, except that flagman must take position not less than thirty feet behind a train carrying passengers. Signal operator must not authorize a train to pass an interlocking signal displaying stop indication until he has assured himself that conductor and engineer of all trains involved are fully acquainted with intended move so that proper protection will be provided.

Shellmound. Limits extend from Signal Bridge 205 to Signal Bridge 206. Whistle signal:

To West Oakland yard from freight track 2, o — —

Martinez. Limits extend on eastward main track from home signal 600 feet east of station building to westward dwarf signals 938 feet east of station building on Tracy line and on Suisun Bay bridge line.

Limits extend on westward main track from signals 2350 feet east of station building on Tracy line and on Suisun Bay bridge line, to Signal 343 at east end of Ozol siding. Crossover switches west of station huilding, and switches leading from spurs to westward main track within these limits are not interlocked, and permission of signal operator must be obtained before fouling westward main track at any of these switches.

Whistle signals:

To Bridge line, o — —. To Tracy line, — o —

Suisun Bay Bridge, Martinez. Bridge zone limits extend on both tracks from home signals 800 feet east of draw span to home signals 550 feet west of draw span.

East end zone limits extend on eastward track only, from semiautomatic signal near upper crossover to westward dwarf signal at

Benicia line connection.

Signal operator's permission must be obtained before moving from Benicia line to eastward main track; then if switch indicator indicates block clear, derail and junction switch may be thrown and movement governed by dwarf signal.

Upper crossover is not interlocked, but movement must not be made through crossover without signal operator's permission, unless switch indicator indicates block clear. Signal 345 will govern move-

ment through crossover.

Davis. Limits on eastward and westward main tracks extend from home signal 2200 feet west of tower to signal bridge 1700 feet east of tower, and on Woodland line to signal bridge 1200 feet east

Whistle signals:

To or from Sacramento from or to Woodland line, o -Western Division eastward trains to enter siding, - o -

Within Davis interlocking limits trains may occupy main track without rear end protection, except that flagman must take position not less than thirty feet behind a train carrying passengers. Signal operator must not authorize a train to pass an interlocking signal displaying stop indication until he has assured himself that conductor and engineer of all trains involved are fully acquainted with intended move so that proper protection will be provided.

Mikon. SNRy crossing. Signal operator on duty 8:30 AM to 5:30 PM, less meal hour, daily except Sunday and holidays. During other hours signals and derails lined for SP movement.

Sacramento River Drawbridge. Eastward trains failing to receive green aspect in approach Signal 878 must stop west of city limit sign, 1030 feet east of Signal 878, unless semi-automatic signal indicates "proceed".

Brazos Drawbridge over Napa River. Signal operators on duty 12:01 AM to 4:00 PM. No movement over bridge permitted during other hours unless signal operator on duty. Derails in main track within interlocking limits east and west of draw span.

RULE 705. LETTER TYPE INDICATORS

Indicators located as follows:

Illuminated Letter		Authorizes and Requires Approaching Movement as Follows				
		.DavisEnter	tht trains o	nlv).	(applies	to
M S	245 245	.PinoleProcee .PinoleEnter	d to Shelln	nound.		

GENERAL REGULATIONS

RULE 824. Tracy. Before engine is detached when train stops on yard track on Martinez side, not less than four hand brakes must be set on west end of train.

RULE 825. Tracy. Train crews must not release brakes on outbound trains until engine is coupled and brake pipe is charged.

RULE 827. TRAIN INSPECTION

Passenger trains operating between Oakland Pier and Gerber making station stop at Davis, must approach at not to exceed 8 MPH to allow forward brakeman to detrain on station side where rear of train will stop. He will then make rolling inspection of train, then walk length of train on opposite side making standing inspection, giving careful attention to running gear and journal boxes. and entrain on station side.

AIR BRAKE RULES

RULE 2. Running test must be made immediately after engine is detached from trains arriving Oakland Pier.

RULE 17. Retainers must be used on freight and mixed trains as follows:

One retainer for every 160 Ms in train, San Ramon to Walnut

With 20 or more cars and tonnage averaging over 150 Ms per operative brake, use 10 retainers on head end of train, or more if requested by engineer, Creston to Napa Jct., and Creston to Cor-

FREIGHT TRAINS

RULE 25. Rear end test must be made immediately prior to departure from:

Napa Jct..... Trains via Cordelia.

Cordelia..... Eastward trains that stop.

Creston Trains that stop.

Freight trains may pass Creston without stopping for rear end test if proceed signals are given by trainmen after complying with Air Brake Rule 4. Speed must be reduced to 8 MPH. Helper engineers will reduce working steam sufficiently in advance so that lead engineer may control speed by gravity.

PASSENGER TRAINS

RULE 39. Running test must be made as follows: Westward trains for Oakland Pier, at 16th St. station, Oakland. Equipment being handled between Oakland Pier and West Oakland, in either direction, as soon as practicable after starting.

Eastward trains via Bahia, at Martinez, but may be made at Ozol if no stop is to be made at Martinez.

Westward trains, at Bahia.

Eastward and westward trains at Creston.

MISCELLANEOUS

1. Emergency water supply only, at Pittsburg.
Water supply at Bahia for yard engines. If necessary for road engines to take water, take only enough to reach next water supply. Eastward freight trains take water at Davis in preference to Swanston.

Take water at Vallejo, Napa or Cordelia instead of at Napa Jct.,

if practicable,

4 (a). When eastward freight train is to pick up pusher engine at Port Costa, train brakes must be applied on arrival, and must not be released until pusher engine has coupled in.

5. The working track between Port Costa and MP 28.2 west of Crockett may be used by westward freight trains, displaying markers as per Rule 19, same as though moving against current of traffic.

6. Engines or trains using wye at Napa Jct. must approach from Suisun-Fairfield line and go around via Napa line.

10. Engines listed must not operate on tracks shown below: Class of Engine **Restricted Tracks**

Engines over 162,000 pounds .Cordelia—Winery spur. Napa Jct.—Calistoga line wye. on drivers..... All......Ramal—Beyond stock chute on corral. T-23, 26, 28, 31, 32, 37, 40, 58, P, A, MkVacaville-Except main track and

GS, F, SP, AM, MM, AC, and

Pacific Fruit Exchange spur.

Tremont—Corral track.

Eng. 2371. Mk, Mt, GS, F, SP, AM, MM, AC, P, and Eng. 2371.....

Newlove—Spur. Tracy - Brewery track; Holly

Sugar spur.

Load limit (car and contents): Union-West Napa 210,000 pounds
Napa Jct.-Schellville 210,000 pounds
Napa Jct.-Vallejo 210,000 pounds
Firming Winters Avon-Radum210,000 pounds

Unless authorized by Superintendent, heavier loads must not be handled.

15. Trains must not pass switchtenders' stations at Sixth and Seventh Streets, Sacramento, without receiving signal from switchtender to proceed (green flag by day and green light by night) and must move with caution between Sacramento River bridge and Seventh Street.

LOCATIONS WHERE SPEED BOARD RESTRICTIONS APPLY TO ONE OR MORE CURVES, STRUCTURES, OR EXTENDED SECTION OF TRACK.

2202101	1 02 2200	<u> </u>			
For	Eastward Tra	ins	For	Westward T	rains
Location of Speed Board MP	Beginning of Restriction MP	End of Restriction MP	Location of Speed Board MP	Beginning of Restriction MP	End of Restriction MP
	0.	AKLAND-SA	CRAMENT		
18.3 19.7 20.9 32.8 36.4 46.3 53.6 73.5	19.1 20.4 21.5 33.5 37.1 47.1 54.4 74.2	20.1 20.9 27.9 33.6 37.3 49.1 55.2 77.4 88.8	18.1 20.8 34.4 36.3 49.8 55.8 78.1	17.3 20.1 33.6 35.5 49.1 55.2 77.4	7.0 19.1 33.5 27.9 47.1 54.4 74.2
35.0 80.0	88.8 35.9 80.7	89.0 MARTINE 35.9 82.1	Z-TRACY 37.0	36.0	34.6

LOCATION OF OVERHEAD AND SIDE STRUCTURES NOT STANDARD CLEARANCE ON MAIN TRACK AND SIDINGS

MITTE		
Post	At or Near	Description
3.5	Oakland Pier	. Posts supporting trainshed Side
6.6	Emeryville	W. U. pole line, near Park AveSide
14.5	Richmond	AT&SFRy overhead bridge Overhead
16.0	San Pablo	. AT&SFRy overhead bridge. Overhead and side
16.6	San Pablo	Westward water columnSide
22.1	Pinole	Rock bluff, eastward trackSide
23.7	Hercules	Industrial Ry overhead bridgeOverhead
24.4	Hercules	Rock bluff, eastward trackSide
26.7	Oleum	. Tunnel No. 1 Overhead and side
27.7	Selby	Tunnel No. 2Overhead and side
31.2	Port Costa	Water column, eastward track Side
34.7	Martinez	Alhambra slough bridgeSide
33.3	Martinez	Suisun Bay bridge, vertical pipes Side
37.2	· Bahia	Wagon bridge, westward track Overhead
38.0	Bahia	Water tank spout, eastward track. Side
59.4	Elmira	Water column, eastward trackSide Signal bridge, Woodland lineOverhead
75.8	Davis	. Signal bridge, Woodland lineOverhead
88.5	Washington	. Sacramento River drawbridgeSide
63.6	Vacaville	. Ulatis Creek bridgeSide
75.8	Winters	. Putah Creek bridgeSide
76.0	Winters	Water tank spoutSide
46.5	Thomasson	. Suisun Creek bridgeSide
46.0	Thomasson	Tunnel Overhead
67.5	Bale	. Water tank spout Side
69.5	Maple	Napa River bridgeSide
37.9	Avon	Pacheco slough bridgeSide
43.1	Nichols	. Wagon bridge Overhead and side
43.2	Nichols	AT&SFRy overhead bridge. Overhead and side
48.8	Pittsburg	Signal bridgeOverhead
40.7	Brazos	. Drawbridge over Napa RiverSide
42.5	Concord	Water tank
44.6	Hookston	Walnut Creek bridgeOverhead and side
45.8	Las Juantas	. SNRy trolley wires Overhead . San Ramon Creek bridge . Overhead and side
49.2	Walnut Creek.	San Ramon Creek bridge Overhead and side
57.0	San Ramon	San Ramon Creek bridge Overhead and side
	T-1	-1-4

Windows of occupied passenger cars must be kept closed, and passengers warned of close clearance when passing over Napa River drawbridge at Brazos.

SPEED RESTRICTIONS

SPEED RESTRICTIONS	With Caution Not Exceeding
FOR OTHER THAN MAIN TRACKS	MPH
Through sidings, yard and other side-tracks, crossove	
turnouts and slip-switches, except:	15
With engine backing	10

MAXIMUM SPEED PERMITTED WHEN HANDLING CERTAIN EQUIPMENT

Streamliner Nos. 101 and 102 must not exceed speed permitted other passenger trains when operating against the current of traffic, or when handled by steam power.

SPECIAL INSTRUCTIONS -MARTINEZ SUBDIVISION 29 ENGINE BACKING WITH TRAIN OR LIGHT ENGINE BACKING WITH TRAIN OR LIGHT 88888888888 Z\$\$\$ SPEED RESTRICTIONS: Maximum speed of trains with engines of various classes is shown below. Trains with engines not listed must not exceed 35 MPH. Speed must be further restricted as required by speed boards, and may be exceeded only as authorized by special instructions herein, or by timetable bulletin.

All trains must run carefully during and after heavy storms, particularly when the track is agt to be affected. When fog, storms or other conditions obscure track or signals, speed of trains must be so reduced as to permit strict observance of signals and INSURE ABSOLUTE SAFETY, REGARDLESS OF TIME. x58xxxxxxxx500xxxxx ⋖⋛™≨S°₽ 888888888888 192828282112 LIGHT ENGINE RUNNING FORWARD **LIGHT ENGINE RUNNING FORWARD** 33333312333 282888888888 8888888 208222222220022822 199999999999 FREIGHT AND MIXED DES 1 to 7 | DES 100 to 107 7.26-32-7.26-32-7.26-32-7.26-32-7.16-58-7-7.16-58-7-8-9-10-11-12-23.825.2288825888358 *Regulated by city ordinance. *C-15-17-32, Mk-10-11 and MM-8 class engines must not exceed 36 MPH. PASSENGER 28823444488 48888888 z5488888888888888 , FREIGHT AND MIXED With Restricted Care (see note) 4885444458 48888888 4 Between Avon and Radum, except
Over bridges 44.64, 49.22 and 56.99
Between Suisun-Fairfield and Calistoga, except
Cordelia-Napa Jot.
Napa Jot.-MP 53.50, except.

MP 39.75-MP 40.25
*MP 45.20-MP 47.10 (Napa city limita)
MP 53.60-Calistoga
*Charter Oak-Fulton Sta, St. Helena (city limits)
Between Napa Jot. and Schellville, except.
Over Napa Jot. and Schellville, except.
Do Schellville wye.
Between Napa Jot. and Vallejo, except.
Over Tennessee St. crossing, Vallejo. With no Restricted (sars (see note) 28824444488 WITH TRAIN - ENGINE RUNNING FORWARD Between West Napa and Union Between Elmira and Esparto, except. Winters-Esparto DES 1 to 7 DES 100 to 107 C-2-4-8-8-10-18-19-28-27-28-29 TW Mk-2-4 F (if not CCB) AC-1-2-3 828844444483 TERRITORY ĕ 348533343 33 448888445 PASSENGER 7-1-8-9-23-28-31-38-67-58 MK-5-6-7-9-9 F (if CCB) (If CCB) 2328234244425 848888445 84854488844 2228234344485 8488884 or Mt class engine equipped with electro-pneumatic brakes functioning on engine and all cars, may run not to exceed 76 MPH in territory where maximum speed of 70 MPH is authorized in Speed Restrictions table. 54834488844 *Freight and mixed trains with an engine listed in columns 5, 6 or 7 Ä of 86 MPH shown in Column A, and permissible speed as indicated on round yellow SIGNAL speed boards, must be reduced by 5 MPH. Nos. 51 and 52, handling streamlined equipment with P-7-8-10-13 DES 1 to 7 and DES 100 to 107 may make maximum of 40 MPH in not exceed maximum speed permitted the same engine when (Note) RESTRICTED CARS: Twin or multiple loads; cars of excess height or width; loads of excess height, width or weight; any equipment listed under "Maximum Speed permitted with Certain Equipment"; scale test cars; and cars with arch-bar trucks. 25525320 255254 25525 25 **6488884**5 with Stream-Ilned CITY OF SAN FRAN-CISCO When electro-pneumatic brakes are inoperative, maximum **48834** 2328545444485 MP 16.31-MP 21.60 MP 21.60-MP 27.90 on tangents. MP 27.90-MP 35.50, except Martinez westward over spring switch junction Tracy COLUMN Martinez eastward on westward track over spring switch at junction Tracy line Between Martinez and Tracy, except

Martinez to Mococo on eastward track

Mococo to Martinez on westward track

Mococo, eastward over spring switch end double track.

Mococo, westward over spring switch end double track.

*Pittsburg, over Baliroad Ave.

MP 80.70-C St. crossing, Tracy.

C St. crossing-Tracy psgr sta. *Over grade crossings, Martinez city limits, except.

*Vest grade crossings, Martinez city limits, except.

*Esstward trains via Suisun Bay bridge 33.3.

Over span No. 12 (lift span) Suisun Bay bridge 33.3.

MP 35.50-MP 47.00

MP 47.00-MP 49.00 Across main track on freight leads to West Oakland. MP 7.00-MP 16.31, except. *MP 11.42-MP 16.00 (Richmond city limits). Mikon, over SNRy crossing. MP 87.80-Sacramento River drawbridge. Dixon, over crossings east and west of station bldg... MP 74.20-MP 77.30 MP 85.50-Sacramento, except. territory where 30 MPH is authorized in Column 14. (Shellmound), except. Across freight leads to West Oakland Over Sacramento River drawbridge. TERRITORY *Regulated by city ordinance. line with westward track Pier and 8 must not exceed maxim handling passenger train. Oakland Pier-MP Between Oakland

MARTINEZ SUBDIVISION

RATING OF ENGINES—In Units of 1000 Lbs. (Ms)

NOMINAL CLASS	ENGINE NUMBERS	Oakland and Martinez Martinez and Tracy	Martines to Bridge Summit	Bridge Summit to Secramento	Secremento to Mertinez	Sulsun-Fairfield to Napa Jet.	Neps Jct. to Sulsun-Fairletd	Nepe Jcf. and Larkmoad Union and West Napa	Lerkmoad end Calistoga
DES-1, 2, 3, 4, 5, 6, 7 DES-100 to 107 E-23 M-4 M-6, 8 M-9, 11 M-11	1000 to 1022. 1300 to 1395. 1500 and 1502. 1617 to 1713. 1721 to 1803, 1823 to 1825. 1804 to 1822, 1826 to 1831 and 1836. 1832 to 1835.	3200 4500 3350 4450 5250 5500 5700	1000 1600 1400 1900 2250 2400 2500	2150 3350 2950 3900 4550 4850 5000	1950 3100 2800 3700 4350 4600 4800	800 1100 1300 1400 1450	1100 1500 1800 1900 2000	1300 1800 2100 2250 2300	1300 1800
T-1 T-8, 9 T-23 T-26 T-28, 31 T-32, 40 T-36 T-37 T-57, 58	2242 to 2271 2161, 2174 and 2178 2301 to 2310 2283 to 2299 2311 to 2362 2363 to 2384 2103 2105 and 2106 2385 and 2386	3800 2750 5500 4800 6000 6150 4050 5450 4950	1650 1150 2350 2000 2600 2600 1750 2350 2150	3300 2400 4800 4200 5250 5350 3550 4800 4300	3150 2250 4550 3900 5000 5000 3400 4600 4100	950 650 1350 1150 1500 1500(A) 1000 1350 1250	1300 920 1900 1600 2100 2100(A) 1400 1900 1700	1500 1050 2200 1900 2450 2500 (A) 1650 2200 2000	1500 1050 1650
P-1, 3, 5 P-1 P-4 P-6 P-7 P-8, 10 P-8, 10 P-11 P-12	{2408, 2411 to 2413, 2416 to 2418, 2423, 2425 to 2435, 2437 to 2452, 2459 and 2460 2400, 2403 to 2407 and 2415. 2401, 2402, 2409, 2410, 2414, 2419, 2420, 2422, 2424 and 2436 2453, 2454 and 2458. 2476 and 2477. 2461 to 2474, 2478 to 2483. 2475, 2484 to 2491. 3100 to 3109. 3120 to 3129	4950 4950 5450 6100 6500 6800 6800 5250 6900	2050 2150 2400 2550 2800 2850 3050 2250 2900	4300 4300 4750 5350 5700 5900 5900 4550 6000	4000 4000 4400 4950 5450 5550 4350 5750	1150 1200 1350 1500 1600 	1600 1700 1900 2100 2250 1800	1950(D) 2300(D) 2100	
C-5, 8, 9, 10, 26 to 29 C-15, 32 C-17 C-18 C-19 TW-1 TW-2, 3 TW-4, 6 TW-8	2513 to 2599, 2624 to 2860, 3440 to 3469 2500, 2505 to 2507 2510 and 2511 3400 to 3409 3410 to 3426 2900 to 2913 2932 to 2952 2928 to 2931 and 2957 2914 to 2923	6600 4250 5200 6050 6300 5050 4050 3850 5550	2900 1850 2300 2650 2750 2200 1750 1650 2450	5750 3700 4550 5300 5550 4400 3550 3350 4900	5550 3550 4350 5100 5300 4200 3400 3200 4650	1700 1100 1350 1550 1650 1300 1000 960 1400	2300 1450 1850 2150 2200 1750 1400 1300 1950	2650 1700 2150 2500 2600 2050 1600 1550 2250	1700 1550
A-3 A-3 A-6 Mk-2, 4 Mk-5, 6 Mk-7, 8, 9 Mk-10 Mk-11	3029. 3025, 3036, 3052 and 3057. 3000 to 3003. 3201 to 3240. 3241 to 3277. 3300 to 3324. 3295. 3297 and 3298.	3900 3900 4800 7650 8450 9200 7100 6800	1550 1650 2100 3350 3650 4050 3100 3000	3400 3400 4150 6700 7350 8050 6200 5950	3050 3050 3750 6400 7000 7750 5950 5700	850 910 1150 1900 2150 2400 1850 1750	1200 1300 1650 2650 2900 3250 2500 2411	1500 1550 1850 3000(B) 3400(B) 3750(C) 2900(D) 2800(D)	
F-1 F-3 F-4, 5 AM-2 MM-3 AC-1, 2, 3 AC-4, 5 AC-6 to 12	3600 to 3652. 3653 to 3667. 3668 to 3769. 3900 to 3911. 3930 and 3931. 4000 to 4048. 4100 to 4125. 3800 to 3811, 4126 to 4294.	9600 11000 11000 10900 12800 13300 17300 18300	4200 4850 5150 4750 5600 5900 7650 8050	8400 9650 9650 9550 11200 11650 15100 16000	8050 9250 9250 9100 10700 11150 14500 15300	branches (B) Applies inc., 321 3236, 32 3259, 326 between Hajan ar	NOT. 2371 not 5. 5 to engines 1, 3213, 32: 37, 3241, 32 66, 3268, 327 Napa Jct. a d West Napa gines not per pa River Br	permitted 3201, 3203 14, 3224, 32 47, 3251, 32 1, 3272 and nd Larkm Other Mk	3 to 3206 127, 3229, 153, 3255, 3274 only ead, and
Mt-1, 3, 4, 5 Mt-2 GS-1, 2 GS-3, 4, 5, 6 SP-1, 2, 3	4300 to 4376. 4385 to 4390. 4400 to 4415. 4416 to 4469. 5000 to 5048.	9000 9750 9600 10200 12950	4050 4200 4300 4400 5700	7850 8500 8400 8900 11350	7400 8150 7900 8500 10850	yond Na (C) Mk 7, overate (D) P-1, 3, not pern ville, nor	pa River Br 8, 9 Class en- beyond Napa 4, 5 and Mk nitted to op- between Un	idge 45.62. gines not per a River Brid c-10, 11 Clas erate beyon ion and Wes	mitted to ige 45.62. s engines d Yount- t Napa.
Allowance for Empty and Underloaded Cars	{Less than 45 Ms. {45 Ms to 55 Ms. {More than 55 Ms.	6 3 0	6 3 0	6 3 0	6 3 0	3 3 0	3 3 0	3 3 0	3 3 0

UNLESS AUTHORIZED BY SUPERINTENDENT, ENGINES WILL NOT BE PERMITTED TO OPERATE IN THOSE TERRITORIES WHERE NO RATING IS SHOWN IN ENGINE RATING TABLE.

MARTINEZ SUBDIVISION

RATING OF ENGINES—In Units of 1000 Lbs. (Ms)

				·	1		· · · · · · · · · · · · · · · · · · ·		1
NOMINAL CLASS	ENGINE NUMBERS	Napa Jct. to Schelville Napa Jct. to Vallejo San Ramon to Radum	Scheliviile to Nepe Jct.	Vallejo to Napa Jct. Elmira to Wintere	Winters to Einsina	Winters and Esparto	Radum to San Ramon	Avon to San Parnon	San Rumon to Avon
DES-1,2,3,4,5,6,7 DES-100 to 107 E-23 M-4 M-6, 8 M-9, 11 M-11	1000 to 1022. 1300 to 1395. 1500 and 1502. 1617 to 1713. 1721 to 1803, 1823 to 1825. 1804 to 1822, 1826 to 1831 and 1836. 1832 to 1835.	4040 5300 6200 6550 6820	1350 1820 2140 2280 2370	1500 2040 2400 2550 2660	1720 2300 2700 2870 2980	4950	1890 2500 2970 3100 3250	1230 1680 2000 2100 2200	4040 5300
T-1 T-8, 9 T-23 T-26 T-28, 31 T-32, 40 T-36 T-37 T-57, 58	2242 to 2271 2161, 2174 and 2178 2301 to 2310 2283 to 2299 2311 to 2362 2363 to 2384 2103 2105 and 2106 2385 and 2386	4500 3270 6500 5730 7170 7300(A) 4800 6500 5880	1550 1100 2250 1950 2480 2530(A) 1680 2250 2040	1750 1240 2520 2200 2790 2830(A) 1880 2530 2280	1960 1390 2830 2470 3130 3180(A) 2110 2840 2560	4300 3100 4600	2150 1540 3100 2720 3430 3500(A) 2300 3100 2800	1430 1000 1550	4500 3270 4800
P-1, 3, 5 P-1 P-4 P-6 P-7 P-8, 10 P-8, 10 P-11 P-12	[2408, 2411 to 2413, 2416 to 2418, 2423, 2425 to 2435, 2437 to 2452, 2459 and 2460 2400, 2403 to 2407 and 2415. 2401, 2402, 2409, 2410, 2414, 2419, 2420, 2422, 2424 and 2436 2453, 2454 and 2458. 2476 and 2477. 2461 to 2474, 2478 to 2483. 2475, 2484 to 2491 3100 to 3109. 3120 to 3129.	5900 6200 6410 7300 7700	1990 2090 2180 2490 2660 	2240	2520 2770		2780 2910 3050 3460 3690 		
C-5, 8, 9, 10, 26 to 29 C-15, 32 C-17 C-18 C-19 TW-1 TW-2, 3 TW-4, 6 TW-8	2513 to 2599, 2624 to 2860, 3440 to 3469. 2500, 2505 to 2507 2510 and 2511 3400 to 3409. 3410 to 3426. 2900 to 2913. 2932 to 2952. 2926 to 2931 and 2957. 2914 to 2923.	7800 5050 6200 7230 7530 6000 4800 4600 6650	2720 1760 2180 2530 2630 2100 1670 1570 2310	3050 1970 2440 2830 2950 2350 1880 1770 2590	3420 2200 2730 3180 3300 2630 2100 1990 2900	7400 4750 5870 6850 7100 5700 4550 4350 6300	3750 2400 3000 3480 3620 2880 2310 2180 3180	2500 1600 2020 1450	7800 5050 6200 4600
A-3 A-6 Mk-2, 4 Mk-5, 6 Mk-7, 8, 9 Mk-10 Mk-11	3029. 3025, 3036, 3052 and 3057. 3000 to 3003. 3201 to 3240. 3241 to 3277. 3300 to 3324. 3295. 3297 and 3298.	4703 4900 5700 8800(B) 10000(B) 10750(B) 8450 8100	1550 1620 1910 3050 3470 3820 2960 2850	1750 1830 2150 3430(B) 3900(B) 4180(B) 3320 3190	1980 2070 2430 3850(B) 4370(B) 3700 3570		2180 2290 2670 4230 (B) 4800 (B) 4060 3900		
F-1 F-3 F-4, 5 AM-2 MM-3 AC-1, 2, 3 AC-4, 5 AC-6 to 12	3600 to 3652 3653 to 3667 3668 to 3769 3900 to 3911 3930 and 3931 4000 to 4048 4100 to 4125 3800 to 3811, 4126 to 4294					branche	NOT 2371 not s. 9 and M xcept engine ,3213,3214, 441,3247,32 68,3271,32 to operate b San Ramon	permitted	
Mt-1, 3, 4, 5 Mt-2 GS-1, 2 GS-3, 4, 5, 6 SP-1, 2, 3	4300 to 4376 4385 to 4390 4400 to 4415 4416 to 4469 5000 to 5048 [Less than 45 Ms	 				3266, 32 mitted (Vallejo, Winters	668, 3271, 32 to operate b San Ramon	72 and 327 etween MI and Asco, E	1 not per- 33 and lmira and
Empty and Underloaded Cars	45 Ms to 55 Ms. More than 55 Ms								

UNLESS AUTHORIZED BY SUPERINTENDENT, ENGINES WILL NOT BE PERMITTED TO OPERATE IN THOSE TERRITORIES WHERE NO RATING IS SHOWN IN ENGINE RATING TABLE.

RULE 14 (d). As specified below, — — — o will be indication that flagman may return from west as prescribed by Rule 99:

FresnoTrains on Pratton line. Biola Jct.....Trains on Biola line.

RULE 14 (e). As specified below, - - -_ --- will be indication that flagman may return from east as prescribed by Rule 99:

Tracy Trains on Los Banos line. Kerman....Trains on Biola line.
IngleTrains on Riverdale line.

RULE 82 (A). Westward trains via Biola line will obtain train orders and check register at Muscatel instead of Fresno Yard.

RULE 83 (A). Only trains originating or terminating will register at Los Banos and Ingle.

Only extra trains will register at Kerman.

Only trains via Biola terminating, and trains via Pratton originating or terminating will register at Fresno Yard.

RULE 83 (B). At open train-order offices trains may register by ticket as follows:

KermanExtra trains

MuscatelTrains not required to stop for other reasons RULE 93. Yard limits in which the provisions of Rule 93 will

apply are established at the following points:

West M	IP_		East MP
80.70	Tracy	(Martinez-Los Banos line)	85.64
69.19	66	(Niles-Lathrop line)	74.37
139.61	Los Ban	os	142.01
192.46	Kerman		194.53
	ie	(Biola line)	194.65
206.04	Fresno	(Pratton-Selma line)	210.81
208.44	**	(Biola-Exeter line)	
199.07	- 66	(Merced-Clovis line)	

Trains or engines will not move against current of traffic on double track, except on authority of yardmaster. When making movements against current of traffic, trains or engines must be preceded by flagman over railway and street crossings at grade where wigwags installed, protecting crossings during movements, except where crossing watchman located.

Trains must receive proceed signal from yardman, green flag by

day and green light by night, between Tulare St. (east of passenger station) and Merced St. (west of passenger station).

Westward trains via Pratton line must receive signal from yardman at Divisadero St., green flag by day and green light by night.

When Signal 2046 on Pratton line, or Signal 2042 on eastward

track displays stop indication train must stop, and after proceed signal received from yardman, green flag by day and green light by night, may then proceed as prescribed by Rules 509 (F) and 513.

Eastward trains via Pratton line to Fresno Yard must receive

proceed signal from yardman (green flag by day, green light by night) before fouling eastward or westward main track.

RULE 103 (A). House track at Newman must not be switched between Merced and Fresno Sts. from five minutes before arrival

to five minutes after departure of passenger trains.

While switching over Fourth St., Los Banos, on back track and west middle, a member of crew must protect the crossing.

Public Utilities Commission orders require that trains and en-gines must stop, and member of crew must protect traffic on the following street or highway crossings before movement is made:

VernalisCrossing on Associated Dehydrators spur. West of Vanormer Highway crossing on H & N Farms spur. CromirCrossing Shaw Ave. on team track.

RULE 104. The normal position of rigid switches at the end of double track and at junctions, is as follows:

Tracy......Niles line, for Martinez line. Tracy..... End double track, for eastward track.
Tracy..... Los Banos line, for Niles line.

Ingle Riverdale line, for siding. KermanBiola line, for Pratton line.

Fresno Yard End double track, for westward track. FresnoPratton line, for eastward main track.

RULE 105. Kerman. North siding is siding north of main track extending from MP 192.9 to MP 194.1, and to be used by trains to and from Biola line only; east switch to be lined normally for movement to and from Biola line. Westward trains from Biola line, unless otherwise required by train order, will use north siding. Eastward trains to Biola line will enter Biola line at junction switch, unless west switch of north siding is lined for siding, and proceed signal is received from operator (green flag by day, green light by night).

South siding is siding south of main track extending from MP 192.8 to MP 193.8, and to be used by trains to and from Pratton line only.

Los Banos. Normal position of switch diverging from west end siding will be for movement to tail track spur.

RULE 221. Fresno Yard is a train-order office for trains originating via Pratton line only.

RULE D-251. Will apply as follows: On both main tracks. Between Fresno Yard and Calwa Tower.

RULE 505. AUTOMATIC BLOCK SYSTEM

Tracy. Signals are numbered as automatic and are under control of switch tender. When "stop" is indicated, trains must stop and not proceed until "proceed" is indicated or proceed signal is given with green flag or green light by switch tender.

Eastward movements governed by dwarf light signals 710, 712.

Westward movements from Lathrop Subdivision governed by Signal 713 located 300 feet east of puzzle switch, the top light governs movement on main track and the lower light governs movement to hill or local yard, and dwarf light signal 715 located on right of eastward track 300 feet east of puzzle switch governs movement to all routes.

Westward movement from Los Banos Subdivision governed by Signal 823, located 300 feet east of puzzle switch, top arm governs movement on main track and lower arm governs movement to hill

or local vard.

Westward freight trains stopped by Signal 717, located east of overhead crossing east of Tracy, use telephone located on this signal, call switch tender at puzzle switch and be governed by his instruc-

Trains and engines stopped by Signal 709 may then proceed with caution if proceed signal received from yardman.

RULE 516. Overlap posts:

Floyd (1500 feet east of west switch) Eastward trains.

RULE 535. SPRING SWITCHES

Tracy. Spring derail on sewer lead, just west of roundhouse

RULE 605. INTERLOCKING

Lyoth. WPRR crossing. Whistle signal:

To enter or leave storage track, o - o. Biola Jct. Limits extend from signal 675 feet west of junction switch on Merced line and signal 575 feet west of junction switch on Biola line, to westward signal 930 feet east of junction switch on main track, and to dwarf signal at derail west end No. 1 drill track.

Junction switch, derail on Biola line 535 feet west of junction switch, and derail and switch at west end No. 1 drill track are dual control switches, operated from train-order office Fresno yard. Telephones in concrete battery house Biola Jct., and at derail on Biola line to communicate with signal operator when necessary. Instructions governing hand operation of dual control switches when authorized by signal operator are posted in telephone booths.

Signal governing movement from No. 1 drill track displays green aspect for movement to Merced line; yellow aspect for move-

ment to Biola line.

GENERAL REGULATIONS

RULE 824. Tracy. Before engine is detached when train stops on yard track in Hill yard not less than three hand brakes must be set on cut west of C St., and four hand brakes must be set on east end of train.

Before engine is detached when train stops on yard track on Martinez side, not less than four hand brakes must be set on west

end of train.

RULE 825. Cars must not be left within 250 feet of highway crossing at Floyd.

Train crews must not release brakes on outbound trains at Tracy until engine is coupled and brake pipe is charged.

RULE 827. TRAIN INSPECTION

Passenger trains making station stop at Los Banos must approach at not to exceed 8 MPH to allow forward brakeman to detrain on station side where rear of train will stop. He will then make rolling inspection of train, then walk length of train on opposite side making standing inspection, giving careful attention to running gear and journal boxes and entrain on station side.

RULE 829. Los Banos. City ordinance provides that highways or streets within city limits shall not be obstructed for longer than

10 mins.

				SF	ΈC	CIAL	INS'	rr	UCT	IONS-
pg gq	CKING	T Cn		M W W W	16	8288	ន្តន្តន	13	នន	peed
eed must be gnals, speed	ENGINE BACKING	Her		DES A DEP MK TW BP SP TW BP	14	8288	8828	12	នន	aximum S
H. Sp k or st	WARD		- DES-200 G-15-17- 32 TW MR-2-4- 10-11 AM AM			80 30 30	8288	12	22.30	ain. ler "M
ngines not listed must not exceed 35 MPH. Speed mo or by timetable bulletin. storms or other conditions obscure track or signals, ESS OF TIME.	LIGHT ENGINE RUNNING FORWARD	Σ	7-1-8-8-23- 28-31-36- 57-58	C-2-4-5-8- 9-10-18- 18-26-27- 28-29 F (If not CCB) SP	12	36 30 30	8288	12	ಜಜ	ssenger tr
t not exce in. Itions obs	ENGINE RU		DES 1 to 7 DES 100 to 107	7-28-32- 37-40 MK-5-8-7- 8-9 F (f CCB) AC-4-5-8-7- 8-9-10- 11-12	11	918	3233	12	223	ndling pas
ed mus bullet er cond e.	LIGHT		OE D	SSE SSE	2	918 818	8288	12	88	hen han any eq
ot liste netable or othe		PHT	Ceare (see note) With Restricted Ceare (see note)			90 30 30	: ::::::::::::::::::::::::::::::::::::	8	30	gine w
ngines not listed or by timetable storms or other ESS OF TIME		FERE	₹ĝ.	With no Restricted Cars (see note)	8	910 01 01	8888	20	88	ame en Ith or v
with en erein, c en fog, ARDLE	WARD			C-16-17- 32 Mk-10- 11 MM	_	32 32	***	202	30 25	d the s ht, wid
nes of various classes is shown below. Trains with engines not listed must not exceed 35 MPH. Speed must be ed only as authorized by special instructions herein, or by timetable bulletin. cularly when the track is apt to be affected. When fog, storms or other conditions obscure track or signals, speed als and INSURE ABSOLUTE SAFETY, REGARDLESS OF TIME.	RUNNING FORWARD		DES 1 to 7	107 C-2-4-5-8- 8-10-18-19- 17W Mk-2-4 F (if not CCB) AC-1-2-3	5	32 3	4484	30	30 25	or 7 must not exceed maximum speed permitted the same engine when handling passenger train. excess height or width; loads of excess height, width or weight; any equipment listed under "Maximum Speed
n belovial lust o be aff	ENGINE R	ER		AM B (if not CCB)	10	45 45	3 3 8 9	20	30 25	m spee ds of e
es is showed by spec ck is apt t	1	ASSENG		7-1-8-9-23- 28-31-36- 67-58 67-58 8-9-7- F (If CCB) SP 8 (If CCB)	+	853	448 4	30	88	eed maximum wldth; loads
classe thorize the tra	WITH TRAIN	•		7-26-32- 37-40 8-7-8- 8-10- 11-12		853	3 488	8	30	t exceed
various classify as author y when the dingular				7-1-3- 14-5-6-	2	55 10 45	3 484	28	88	r 7 must not e excess height
ines of ded on ticulari				P-7-8- MR 10-12 GS	-	55 10 45	4 484	28	සිසි	or 7 m
SPEED RESTRICTIONS: Maximum speed of trains with engines of w further restricted as required by speed boards, and may be exceeded only All trains must run carefully during and after heavy storms, particularly of trains must be so reduced as to permit strict observance of signals and				₩	NUNTO	Between Tracy and Fresno, except. Tracy-MP 83.00 MP 83.00-MP 85.64 (Tracy yard limit), except	Over WPRR crossing, Lyoth MP 130.61-MP 142.01 (Los Banos yard limits), except Along or across atreet crossings, Los Banos MP 906 AL-WESSING SYGOT,	*Fresno, along or across street crossings	Between Kerman and Biola Jet., exceptThrough junction switches and crossover, Biola Jot	*Regulated by city ordinance. *Freight and mixed trains with an engine listed in columns 5, 6 (Note) RESTRICTED CARS: Twin or multiple loads: cars of

(Note) RESTRICTED CARS: Twin or multiple loads; cars of excess height or width; loads of excess height, width or weight; any equipment listed under "Maximum Speed *Freight and mixed trains with an engine listed in columns 5, 6 or 7 must not exceed maximum speed permitted the same engine when handling passenger train. permitted with Certain Equipment"; scale test cars; and cars with arch-bar trucks.

DES 1 to 7 and DES 100 to 107 may make maximum of 40 MPH in territory where 30 MPH is authorized in Column 14.

MISCELLANEOUS Engines listed must not operate on tracks shown below:

LOCATIONS WHERE SPEED BOARD RESTRICTIONS APPLY TO ONE OR MORE CURVES, STRUCTURES, OR EXTENDED SECTION OF TRACK.

For	For Eastward Trains	ains	10J	For Westward Trains	ains
Location of Speed Board MP	Location of Beginning of Speed Board Restriction MP	End of Restriction MP	Location of Speed Board MP	Beginning of Restriction MP	End of Restriction MP
82.9 84.4 138.8 206.5	83.0 85.2 139.6 207.2	85.6 85.2 142.1 208.4	86.0 86.4 142.9	85.2 85.6 142.1	85.2 82.8 139.6

Patterson—Patterson Ranch spur. Crows Landing—Yancey Lbr. spur. Newman—Golden State Creamery spur; Lumber Co. spur. Gustine—California Milk spur and

Tracy—Brewery; Holly Sugar spur.

Mk, Mt, GS, F, SP, AM, MM, AC, P, and Eng. 2371.....

Class of Engine

Restricted Tracks

Carnation Co. loading tracks.
Los Banos — Builders Lbr. spur;
Union Oil spur; Golden State

Creamery spur. Los Banos-Wye.

LOS BANOS SUBDIVISION

With Caution Not Exceeding MPH FOR OTHER THAN MAIN TRACKS SPEED RESTRICTIONS

Through sidings, yard and other side-tracks, crossovers, turnouts and slip-switches, except:

With engine backing

Tracy-Fresno Z40,000 pounds Unless authorized by Superintendent, heavier loads must not be

handled

Load limit (car and contents):

Mt.2, GS, F, SP, AM, MM, AC, and Eng. 2371.....

22

LOCATION OF OVERHEAD AND SIDE STRUCTURES NOT STANDARD CLEARANCE ON MAIN TRACK AND SIDINGS

Los Banos..... Warehouse opposite east leg of wye.... Side

Description At or Near Post

140.2

RATING OF ENGINES—In Units of 1000 Lbs. (Ms)

	L.	i I	
NOMINAL CLASS	ENGINE NUMBERS	Tracy and Fresno Kerman and Biola Jot.	
DES-1, 2, 3, 4, 5, 6, 7 DES-100 to 107 E-23 M-4 M-8, 8 M-9, 11 M-11	1000 to 1022 1300 to 1395 1500 and 1502 1617 to 1713 1721 to 1803, 1823 to 1825 1804 to 1822, 1826 to 1831 and 1836 1832 to 1835	3200 4500 3350 4450 5250 5500 5700	
T-1 T-8, 9] T-23 T-26 T-28, 31 T-32, 40 T-36 T-37 T-57, 58	2242 to 2271. 2161, 2174 and 2178. 2301 to 2310. 2283 to 2299. 2311 to 2362. 2363 to 2384. 2103. 2105 and 2106. 2385 and 2386.	3800 2750 5500 4800 6000 6150 4050 5450 4950	
P-1, 3, 5 P-1 P-4 P-6 P-7 P-8, 10 P-11 P-12	(2408, 2411 to 2413, 2416 to 2418, 2423, 2425 to 2435, 2437 to 2452, 2459 and 2460 2400, 2403 to 2407 and 2415. 2401, 2402, 2409, 2410, 2414, 2419, 2420, 2422, 2424 and 2436 2453, 2454 and 2458. 2476 and 2477 2461 to 2474, 2478 to 2483. 2475, 2484 to 2491 3100 to 3109. 3120 to 3129	4950 4950 5450 6100 6500 6800 6800 5250 6900	
C-5, 8, 9, 10, 26 to 29 C-15, 32 C-17 C-18 C-19 TW-1 TW-2, 3 TW-4, 6 TW-8	2513 to 2599, 2624 to 2860, 3440 to 3469 2500, 2505 to 2507 2510 and 2511 3400 to 3409 3410 to 3426 2900 to 2913 2932 to 2952 2926 to 2931 and 2957 2914 to 2923	6600 4250 5200 6050 6300 5050 4050 3850 5550	
A-3 A-6 Mk-2, 4 Mk-5, 6 Mk-7, 8, 9 Mk-10 Mk-11	3029. 3025, 3036, 3052 and 3057. 3000 to 3003. 3201 to 3240. 3241 to 3277. 3300 to 3324. 3295. 3297 and 3298.	3900 3900 4800 7650 8450 9200 7100 6800	
F-1 F-3 F-4, 5 AM-2 MM-3 AC-1, 2, 3 AC-4, 5 AC-6 to 12	3600 to 3652. 3653 to 3667. 3668 to 3769. 3900 to 3911. 3930 and 3931. 4000 to 4048. 4100 to 4125. 3800 to 3811, 4126 to 4294.	9600 11000 11000 10900 12800 13300 17300 18300	
Mt-1, 3, 4, 5 Mt-2 GS-1, 2 GS-3, 4, 5, 6 SP-1, 2, 3	4300 to 4376. 4385 to 4390. 4400 to 4415. 4416 to 4469. 5000 to 5048.	9000 9750 9600(A) 10200(A) 12950	(A) GS Class Engines not permitted to operate in passenger service.
Allowance for Empty and Underloaded Cars	(Less than 45 Ms. 45 Ms to 55 Ms. More than 55 Ms.	6 3 0	L NOT BE PERMITTED TO OPERATE IN THOSE

UNLESS AUTHORIZED BY SUPERINTENDENT, ENGINES WILL NOT BE PERMITTED TO OPERATE IN THOSE TERRITORIES WHERE NO RATING IS SHOWN IN ENGINE RATING TABLE.

RULE 14 (e). As specified below. indication that flagman may return from east as prescribed by Rule 99:

Galt.......Trains on Ione line.

Lodi Trains on Valley Spring and Woodbridge lines. Stockton ... Trains on Oakdale line. Lathrop.... Trains on Merced line. Tracy..... Trains on Los Banos line.

RULE 14 (k). Will not apply in C.T.C. system.

RULE 82 (A). Westward regular trains from Lathrop Sub-division to Merced Subdivision will assume the corresponding number and schedule at Lathrop without clearance.

Westward sections and extra trains authorized at Stockton by train-order for movement on Merced Subdivision may leave Lathrop

without clearance.

Trains from Merced Subdivision will assume the corresponding number and schedule on Lathrop Subdivision and may leave Lathrop without clearance.

Extra trains from Merced Subdivision for movement eastward

on Lathrop Subdivision may leave Lathrop without clearance.
Trains using west leg of wye to Merced Subdivision must obtain

clearance before leaving Lathrop.

Trains from Western Division at Brighton may assume corresponding schedules, or sections of schedules, on Sacramento Division without clearance.

Trains to Western Division at Brighton, originating at Sacramento, may leave Sacramento with Western Division clearance only.

Trains enroute Western Division via Sacramento or Brighton originating at Roseville, must obtain two clearances, one endorsed Sacramento Division, the other endorsed Western Division. Train orders addressed to such trains at Roseville will apply the same as if addressed to them at Brighton or Sacramento.

Crews to operate as Nos. 420, 424 and 426, and sections thereof, on Western Division from Brighton, may assume such identity at Roseville instead of Brighton. Sacramento and Western Division clearance for sections of these schedules must bear the words "No signals" or "Green signals" as the case may be, and bear dispatcher's O.K., and train-order authority for display of signals will not be required Roseville to Brighton, nor on Lathrop Subdivision of Western Division. Crews will register and display indicators and signals accordingly.

RULE 83. Sections of first and third class schedules to Merced Subdivision having received their authority at Stockton, or east of Stockton, need not ascertain that preceding sections of the same schedule have left Lathrop. A leading section must not permit a following section to pass between Stockton train-order office and junc-

tion switch Lathrop except as provided by last paragraph of Rule 85.
Identification may be made by westward trains between Stockton and Lathrop to be applied at Lathrop on Merced Subdivision. Reduce speed sufficiently to permit identification and comply with

Rule 14 (k).

RULE 83 (A). Extra trains will register at Stockton, Lathrop and Oakdale.

Trains originating or terminating on east leg of wye at Lathrop

will not register at Lathrop.

Only trains originating or terminating, other than third-class and extra trains passing Sacramento to or from Western Division will register at Sacramento.

Only eastward trains via Brighton, and trains originating or terminating, will register at Sacramento, 12th St.

RULE 83 (B). At open train-order offices trains may register by ticket as follows:

.All trains on Lathrop Subdivision and Lathrop Merced Subdivision trains originating or terminating using west leg of wye.

Stockton Third-class and extra trains, except those originating or terminating. Sacramento, 12th St. . . Eastward trains via Brighton.

RULE 93. Yard limits in which the provisions of Rule 93 will apply, except within C.T.C. limits, are established at the following points:

West M	TP	East MP
80.70	Tracy (Martinez-Los Banos line)	85.64
69.19	" (Niles-Lathrop line)	74.37
80.56	Lathrop (Tracy-Stockton line)	83.04
-	" (Merced line)	94.02
85.07	Stockton	93.72
00.01	" (Oakdale line)	94.41
120.23	Oakdale	122.92
101.57	Lodi	104.25
101.01	" (Victor line)	104.25
	" (Woodbridge line)	End track
111.10	Galt	113.21
111.10	" (Ione line)	112.91
85.51	Sacramento	95.35
131.60	" (Stockton line)	136.33
129.04	Valley Spring	130.50
141.94	Kentucky House	Tod treet
138.28	Ione	
	10116	

RULE 95. Train orders issued by Western Division under Form F, reading to or from Brighton, will apply over the Sacramento Division into or out of Sacramento or Roseville.

Nos. 421, 423 and 425 and sections of those schedules from

Western Division at Brighton may continue display of indicators through to Roseville, and register at Roseville accordingly.

RULE D-97 (A). Will apply between Tracy and Stockton Tower No 4.

RULE 98. Railroad crossings at grade not interlocked:

Trains and engines must approach with caution, and may move over the following crossings without stopping, if crossing clear and no movement approaching on intersecting line:
Stockton.....CCTCo., crossing of Oakdale Branch near MP

LodiCCTCo., crossing of Brighton line at MP 103.2. LodiCCTCo., crossing of Woodbridge line.

Stop clear of the following crossings, then proceed if no movement approaching on intersecting line:

LodiCCTCo., crossing of yard tracks west of station building.

Ione Branch. . CCTCo., crossing of Ione Branch.

Drawbridge not interlocked:

Stockton. Drawbridge over San Joaquin River, on spur connecting with SPBRy. Drawbridge normally open for river traffic. SP movement must stop. Sound whistle signal 14 (j) for bridge to be lined.

RULE 103 (A). Stockton. When making movements eastward on Scotts Avenue, before crossing El Dorado Street, following will govern:

With engine ahead pulling cars, stop and proceed.

With cars being pushed, stop and proceed with yardman protecting movement over El Dorado Street.

Public Utilities Commission orders require that trains and engines must stop, and member of crew must protect traffic on the following street or highway crossings before movement is made:

Tomspur Crossing on Hershel Canning Co. spur. Woodbridge .. Crossing Woodbridge road on General Mills spur. Carbondale .. Crossing county road when on industry track.

RULE 104. The normal position of rigid switches at the end of double track and at junctions, is as follows: Tracy.....Niles line, for Martinez line.

Tracy....End double track, for eastward track.
Tracy...Los Banos line, for Niles line.

Lodi.... Woodbridge line, for Lathrop line.
Lodi....Valley Spring line, for yard track. Galt......West leg of wye for Ione line.

Galt..... East leg of wye for straight leg of wye.

RULE 105. Lathrop. Westward siding leaves westward main track 1500 feet east of corral and enters main track just east of water tank.

RULE 204. Trains of Lathrop or Merced Subdivision, with the same conductor and engineer operating through Lathrop may be issued train orders on one subdivision that affect their movement on the other, or both subdivisions.

RULE 204 (A). Operator Stockton must furnish engineers of eastward freight trains an extra copy of Sacramento Division train orders, to be delivered to helper engineer when helper is picked up.

RULE 221. Trains must obtain clearance before leaving Stockton.

Light will not be displayed in train-order signals on Oakdale and Lodi Branches, except when train-order operator is on duty.

RULE D-251. Will apply as follows: On eastward track, Lathrop to Stockton Tower No. 4. On westward track: Stockton Tower No. 4 to Stockton; Lathrop to Tracy.

RULE 505. AUTOMATIC BLOCK SYSTEM

Tracy. Signals are numbered as automatic and are under control of switch tender. When "stop" is indicated, trains must stop and not proceed until "proceed" is indicated or proceed signal is given with green flag or green light by switch tender.
Eastward movements governed by dwarf light signals 710, 712,

714.

Westward movements from Lathrop Subdivision governed by Signal 713 located 300 feet east of puzzle switch, the top light governs movement on main track and the lower light governs movement to hill or local yard, and dwarf light signal 715 located on right of eastward track 300 feet east of puzzle switch governs movement to all routes.

Westward movement from Los Banos Subdivision governed by Signal 823, located 300 feet east of puzzle switch, top arm governs movement on main track and lower arm governs movement to hill

or local yard.

Westward freight trains stopped by Signal 717, located east of overhead crossing east of Tracy, use telephone located on this signal, call switch tender at puzzle switch and be governed by his instructions.

Trains and engines stopped by Signal 709 may then proceed with caution if proceed signal received from yardman.

Lathrop. Trains and engines stopped by Signal 828 may apply

Rule 509 only after obtaining permission of train-order operator.

RULE 510. Following block signals equipped with a triangular number plate displaying the letter "P" have included in their control limits some special protective device:

Eastward Signals

Westward Signals

Collision detector, highway underpass, MP 104.16 (Lodi).....

RULE 535. SPRING SWITCHES

Tracy. Spring derail on sewer lead, just west of roundhouse leads.

RULE 605. INTERLOCKING

San Joaquin River Drawbridge. Derails in eastward main track 892 feet west of lift span, and in westward main track 1208 feet east of lift span. Signal operator on duty 8:00 AM to 12:00 Noon, and 1:00 PM to 5:00 PM. During other hours signals and derails lined for

Lathrop. East zone. Limits extend from SA signal 575 feet west of west switch of crossover to SA signal 65 feet east of east switch of crossover.

West zone. Limits extend from 360 feet west of junction switch to 340 feet east of junction switch.

South zone. Limits extend from 225 feet west of junction switch to 65 feet east of junction switch.

W. P. zone. Limits extend between semi-automatic signals either side of WPRR crossing.

Telephones at interlocking signals governing entrance to East, West and South zones, and in door of concrete shelter at WPRR

French Camp Tower — TSRy crossing 1.6 miles east of French Camp. Signal operator on duty 6:00 PM to 3:00 AM daily except Sundays and holidays. Signals will be left in proceed position and switch and derail to stock yard spur will be left for normal handling by trainmen when signal operator not on duty. During hours signal operator on duty, this switch will be electrically locked and controlled by signal operator.

Trains entering this track must restore switch and derail and lock same. Before leaving this track, permission must be obtained from signal operator, when on duty, and will be given in accordance

with Rule 628; Whistle signal, — — — o may be used.
Engineers will sound whistle signal 14 (m) when they wish to enter or pass through this plant when signal operator on duty.

Stockton Tower No. 2 - AT&SFRy crossing, Sacramento and Taylor Streets, Stockton. Sound whistle signals as follows for: Westward main track, o o — —.

Eastward main track, - o -

Middle track, o --

Old siding, -

Gauns track, o - o.

Houser-Haines track, o o -- o.

One short sound of tower siren (o) will be signal for all train movements to stop.

Two short sounds repeated several times (oo oo oo) will be signal for yard and train crews to clear the plant at once.

Stockton Tower No. 3 - WPRR crossing Weber Avenue and Union St., Stockton.

Stockton Tower No. 4. WPRR crossing MP 92.3. Limits on eastward main track extend from signal 660 feet west of crossing to absolute signal at beginning of C.T.C. 900 feet east of crossing; and on westward main track from signal at end of C.T.C. 900 feet east of crossing to dwarf signal 200 feet west of crossing.

Switches and derails on Gulf Red Cedar spur and Gilmore Oil

spur are hand-throw and equipped with electric lock controlled by

signal operator.

Whistle signal: For crossover, - o -

Polk. West switch and eastward signals operated by signal operator at Elvas, and their use governed by Sacramento Division special instructions.

RULE 760. CENTRALIZED TRAFFIC CONTROL SYSTEM

Limits extend from east limit of Stockton Tower No. 4 at east crossover, to interlocking signal just west of west switch at Polk eastward and from absolute signal just east of west switch Polk to east interlocking limit at Stockton Tower No. 4 westward.

On double track between end of double track east of Akers and east interlocking limits at Stockton Tower No. 4 movements may be made in either direction on either track being governed by absolute and automatic signals. Rule 509 applicable to single track will apply on both tracks.

RULE 762. Flag protection to rear, as prescribed by Rule 99, is required by eastward trains standing, or delayed, on main track with rear of train between Signal 1122 and east switch Galt; and by westward trains standing, or delayed, on main track with rear of train between Signal 1121 and west switch.

GENERAL REGULATIONS

RULE 824. Tracy. Before engine is detached when train stops on yard track in Hill yard not less than three hand brakes must be set on cut west of C St., and four hand brakes must be set on east end of train.

Before engine is detached when train stops on yard track on Martinez side, not less than four hand brakes must be set on west

end of train.

RULE 825. Train crews must not release brakes on outbound trains at Tracy until engine is coupled and brake pipe charged.

AIR BRAKE RULES

RULE 17. Retainers must be used on freight and mixed trains on descending grades as follows:

Toyon to ½ mile east of
Valley Spring.....1 valve for every 150 Ms in train.
Norval to Helisma....1 valve for every 150 Ms in train.

FREIGHT TRAINS

RULE 25. Rear end test must be made immediately prior to departure from:

Toyon.....All trains.

PASSENGER TRAINS

RULE 39. Running test must be made as follows: Eastward trains on Lathrop Subdivision, leaving Tracy, Lathrop and Stockton. Westward trains, leaving Akers, Stockton and Lathrop.

MISCELLANEOUS

1. Engines of Sierra Ry. will take water from SP supply at Oakdale, using SP main track. Trains and engines must move with caution between F and G Sts, Oakdale, expecting to find main track

Emergency water supply only at Lathrop on westward track.

6. Cars must not be left on straight leg of wye, Lathrop, to block tool house or crossover.

Engines will be turned on AT&SFRy wye at Oakdale, operating over Sierra Ry. main track from Oakdale to AT&SFRy junction, being governed by current Sierra Ry. timetable (copy may be secured from SP agent), and will procure clearance from Sierra Ry. operator when on duty, before leaving Oakdale; and be governed by Special Rule No. 3, Sierra Ry. timetable reading as follows:

"All trains will approach yard limits of sta-tions shown with train under full control, expect-ing to find main track obstructed. This does not give switching engines right over any train.'

Sierra Ry. switch key in phone box at SP station building, must be replaced after use. Every precaution for safety must be observed, flagging if conditions require.

10. Engines listed must not operate on tracks shown below: Class of Engine Restricted Tracks Mk, Mt, GS, F, SP, AM, MM, AC, P, and Eng. 2371
P, and Eng. 2371
and Eng. 2371
P, and Eng. 2371Lathrop—Fresno No. 2 track; bee track; slop track. " Stockton—Tracks 2 and 3 (excep to pick up or set out); west en
P, and Eng. 2371Lathrop—Fresno No. 2 track; bee track; slop track. " Stockton—Tracks 2 and 3 (excep to pick up or set out); west en
" Stockton—Tracks 2 and 3 (excep to pick up or set out); west en
tion yard.
GS, F, SP, AM, MM, ACStockton—Turntable lead.
Mk, Mt, GS, F, SP, AM, MM, AC,
P, and Eng. 2371Lodi—Tracks 5 and 6; crossove between tracks 3 and 5; west enget of track 5 to Walnut St.
Mt-2, GS, F, SP, AM, MM, AC,
and Eng. 2371Lodi—Wye (no restriction on wes end of wye between siding an oil column).
Mk, Mt, GS, F, SP, AM, MM, AC,
P, and Eng. 2371Urgon—Spur.
Mk, Mt, GS, F, SP, AM, MM, AC,
P, and Eng. 2371Galt — Crossover between con

211, 111, 110, 11, 11, 11, 11, 11, 11, 11	
P, and Eng. 2371	.Urgon-Spur
77 75 00 7 07 135 105 10	
MR. Mt. GS. F. SP. AM. MM. AC.	.Galt — Crossover between con-
D 1 Thurs 0071	Calt Characher hatman and
P, and Eng. 2371	.Gail Crossover between con-
_,	trolled ciding and ail treater were
	trolled siding and oil track; wye.
MIL NO CO TO OD AND MOM AC	Elk Grove — Elk Grove Winery
ma, mi, do, r, or, am, mm, ac,	
P and Fng 2271	Elk Grove - Elk Grove Winery
1, and Eng. 2011	DE GIVIC - DE GIVIC ITEMAS
· ·	SDUL.
"	
**	Florin—Florin Fruit Growers spur.
35' 00 D 00 A35 355 A0 D	
Mt, GS, F, SP, AM, MM, AC, P,	
0071	The life of the sales of any of the C. Ammer.
and Eng. 2371	.Polk-Tracks 1 and 2, U. S. Army

Load limit (car and contents): ...240,000 pounds Tracy-Brighton Stockton-Montpellier 210,000 pounds ..210,000 pounds Woodbridge-Kentucky House Galt-Edwin210,000 pounds

Signal Depot.

Edwin-Ione .169,000 pounds When false bents are in place on bridges 135.87 and 136.64 load limit between Edwin and Ione will be 210,000 pounds.
Unless authorized by Superintendent, heavier loads must not be

handled.

15. Trains must not pass switchtenders' stations at Sixth and Seventh Streets, Sacramento, without receiving signal from switchtender to proceed (green flag by day and green light by night) and must move with caution between Sacramento River bridge and Seventh Street.

LOCATIONS WHERE SPEED BOARD RESTRICTIONS APPLY TO ONE OR MORE CURVES, STRUCTURES, OR EXTENDED SECTION OF TRACK.

For	Eastward Tr	ains	For Westward Trains			
Location of Speed Board MP	Beginning of Restriction MP	End of Restriction MP	Location of Speed Board MP	Beginning of Restriction MP	End of Restriction MP	
75.8 77.5 87.0 88.3 91.6 101.2 103.7 118.3 130.9	76.5 78.3 87.7 88.7 92.3 102.0 104.4 119.1 131.7	76.6 78.4 88.7 92.0 95.0 104.5 119.2 133.2	72.5 77.5 79.0 88.3 89.0 92.8 93.0 105.2 104.7 120.6	71.8 76.6 78.4 87.7 88.7 92.0 92.3 104.5 104.0 119.2	71.4 76.5 78.3 81.5 87.7 82.0 104.4 102.0 119.1	

LOCATION OF OVERHEAD AND SIDE STRUCTURES NOT STANDARD CLEARANCE ON MAIN TRACK AND SIDINGS

Mile Post	At or Near	Description
90.7	Stockton	.Water column, westward trackSide
104.3	Lodi	.Mokelumne River bridgeSide
129.0	Florin	.Water tank spoutSide
110.7	Lockeford	. Brick platform at Locke warehouse Side
132.2	Carbondale.	.Clay shedSide
136.7		.Sutter Creek bridgeOverhead and side

38

SPEED RESTRICTIONS: Maximum speed of trains with engines of various classes is shown below. Trains with engines not listed must not exceed 35 MPH. Speed must be further restricted as required by speed boards, and may be exceeded only as authorized by special instructions herein, or by timetable bulletin.

All trains must run carefully during and after heavy storms, particularly when the track is apt to be affected. When fog, storms or other conditions obscure track or signals, speed of trains must be so reduced as to permit strict observance of signals and INSURE ABSOLUTE SAFETY, REGARDLESS OF TIME.

1

ENGINE BACKING WITH TRAIN OR LIGHT

LIGHT ENGINE RUNNING FORWARD

WITH TRAIN - ENGINE RUNNING FORWARD

PASSENGER

ZAREZ Zara

₽gg∄T<u>ặ</u>P

Mk-2-4-10-11 A0-1-2-3

6-9 F (If CCB) AC-4-5-6-7-8-9-10-11-12

With Restricted (see note)

With no Restricted Cers (see note)

ă

M T-1-8-9-23-28-31-38-57-58 Mk-5-6-7-8-9 F (If CCB)

(if CCB)

DES-200 C-15-17

M. T.1-8-9-23-28-31-38-67-68-67-68-9-10-18-19-26-27-18-29-F. (if not

DES 110 7 DES 100 to 107 T-26-32-37-40 MK-5-8-7-

*FREIGHT AND MIXED

A PEFE

-LATHROP SUBDIVISION SPECIAL INSTRUCTIONS **ន្ទន្ទន្ទន្ទន្ទន្ទន្ទ**ន្ទន្ទន្ទ

ន្តឧន្តន្តន 2 7 888888888888888 82888 5 82888 88888888888 28888 3328888888888 = **45848** 3223232323 은 **쇼등왕송**% 848888888888 **4284%** 222222222222 8 **#5848** 25222222222 233323 888888888 35 3533% 33232328888 경당관심성 333383388 8 ю 정당감상성 2224222222244 용당충송왕 822482388334 용당충송성 888888888 :8 85448 £222422222224 COLUMN Between Lathrop and Brighton, except.
Lathrop-MP 87.70 (French Camp Tower), except.
Through switches, East Zone, Lathrop.
MP 87.70-MP 92.30 (Stockton Tower No. 4), except.
*MP 88.70-MP 92.00 (Stockton city limits)
MP 92.30-MP 95.00 (end double track). MP 92.30-MP 95.00 (end double track).
Through turnout, MP 95.00 (end double track)
MP 102.00-MP 104.00 (Lodi).
Over bridge 104.38 with GS, F, AC, Mt-2 class engines.
Over bridge 119.14 with GS, F, AC, Mt-2 class engines.
MP 131.70-Brighton. Tracy-End double track. End double track-Overpass east of puzzle switch Over San Joaquin River drawbridge 78.30 Through switches, West Zone, Lathrop... Between Tracy and Lathrop, except.

*Regulated by city ordinance.

Nos. 51 and 52 handling streamlined equipment with P-7-8-10-12 or Mt class engine with electro-pneumatic brakes functioning on engine and all cars, may run not to exceed 65 MPH in territory where maximum speed of 60 MPH is authorized in Speed Restrictions table.

(Note) RESTRICTED CARS: Twin or multiple loads; cars of excess height or width; loads of excess height, width or weight; any equipment listed under "Maximum Speed permitted with Certain Equipment"; scale test cars; and cars with arch-bar trucks. *Freight and mixed trains with an engine listed in columns 5, 6 or 7 must not exceed maximum speed permitted the same engine when handling passenger train.

DES 1 to 7 and DES 100 to 107 may make maximum of 40 MPH in territory where 30 MPH is authorized in Column 14.

		,			
TERRITORY	PASSENGER	FREIGHT. AND MIXED	LIGHT ENGINE RUNNING FORWARD	ENGINE BACKING WITH TRAIN OR LIGHT	SPEED RESTRICTIONS Not Exceeding FOR OTHER THAN MAIN TRACKS MPH
Between Galt and Ione, except MP 125.50-MP 127.10 Over Dry Creek bridge 135.87 Over Sutter Creek bridge 136.64 Between Stockton and Montpellier, except. Between Sacramento St. and Wilson Way, Stockton Between switches, Peters. Between Lodi and Woodbridge Between Lodi and Kentucky House, except. MP 121.40-MP 132.30 MP 132.30-MP 139.70	8222880088228	84448° 81588	85558 0005555	855580055555	Through sidings, yard and other side-tracks, crossovers, turnouts and slip-switches, except:

RATING OF ENGINES-In Units of 1000 Lbs. (Ms)

				203. (III.					
NOMINAL CLASS	ENGINE NUMBERS	Tracy and Brighton	Stockton and Montpellier	Lodi to Walace Toyon to Macrider	Wallace to Toyon Macnider to Kentucky House	Macnider to Toyon	Valley Spring to Norval	Kentucky House to Macnider Toyon to Valley Spring Norval to Lodi	Lodi and Woodbridge
DES-1, 2, 3, 4, 5, 6, 7 DES-100 to 107 E-23 M-4 M-6, 8 M-9, 11 M-11	1000 to 1022. 1300 to 1395. 1500 and 1502. 1617 to 1713. 1721 to 1803, 1823 to 1825. 1804 to 1822, 1826 to 1831 and 1836. 1832 to 1835.	3200 4500 3350 4450 5250 5500 5700	2300 3050 3600 3800 3950	2600 3450 4050 4250 4450	560 800 910 970 1050	1050 1450 1600 1700 1900	1650 2200 2600 2750 2900	3350 4450 5250 5500 5750	3740 5000 5850 6200 6450
T-1 T-8, 9 T-23 T-26 T-28, 31 T-32, 40 T-36 T-37 T-57, 58	2242 to 2271 2161, 2174 and 2178 2301 to 2310 2283 to 2299 2311 to 2362 2363 to 2384 2103 2105 and 2106 2385 and 2386	3800 2750 5500 4800 6000 6150 4050 5450 4950	2600 1850 3750 3300 4150 4200(A) 2800 3750 3400	2950 2100 4250 3750 4650 4650(A) 3150 4250 3850	680 460 1000 850 1050 1050(A) 760 1000 910	1200 860 1750 1550 1850 1850(A) 1350 1800 1600	1900 1350 2750 2400 2950 2950(A) 2050 2750 2500	3800 2750 5500 4850 6000 6150(A) 4050 5500 4950	4200 3270 6150 5400 6800 6900(A) 4550 6100 5480
P-1, 3, 5 P-1 P-4 P-6 P-7 P-8, 10 P-3, 10 P-11 P-12	(2408, 2411 to 2413, 2416 to 2418, 2423, 2425 to 2435, 2437 to 2452, 2459 and 2460 2400, 2403 to 2407 and 2415 2401, 2402, 2409, 2410, 2414, 2419, 2420, 2422, 2424 and 2436 2453, 2454 and 2458. 2476 and 2477. 2461 to 2474, 2478 to 2483. 2475, 2484 to 2491. 3100 to 3109. 3120 to 3129.	4950 4950 5450 6100 6500 6800 6800 5250 6900	3350 4000 	3850	930(D)	1550 1700	2450 2700 	4950(D) 5450(D)	
C-5, 8, 9, 10, 26 to 29 C-15, 32 C-17 C-18 C-19 TW-1 TW-2, 3 TW-4, 6 TW-8	2513 to 2599, 2624 to 2860, 3440 to 3469. 2500, 2505 to 2507. 2510 and 2511. 3400 to 3409. 3410 to 3428. 2900 to 2913. 2932 to 2952. 2926 to 2931 and 2957. 2914 to 2923.	6600 4250 5200 6050 6300 5050 4050 3850 5550	4550 2900 3600 4200 4350 3450 2800 2650 3850	5150 3300 4050 4750 4950 3950 3150 3000 4350	1250 800 1000 1150 1200 950 740 690 1050	2200 1400 1750 2000 2100 1650 1300 1250 1850	3350 2150 2650 3100 3200 2550 2050 1900 2800	6600 4250 5250 6100 6350 5100 4100 3850 5600	7400 4750 5870 6850 7100 5700 4600 4350 6300
A-3 A-6 Mk-2, 4 Mk-5, 6 Mk-7, 8, 9 Mk-10 Mk-11	3029 3025, 3036, 3052 and 3057 3000 to 3003 3201 to 3240 3241 to 3277 3300 to 3324 3295 3297 and 3298	3900 3900 4800 7650 8450 9200 7100 6800	2650 2900 3550 5100(B) 5800(C) 4900 4700	3000 3150 3700 5800(B) 6600(C) 5600 5350	630(D) 660(D) 800(D) 1350(B) 1550(C) 1350	1200 1250 1500 2550(B) 2850(C) 2430 2350	1900 2000 2350 3800(B) 4300(C) 3650 3500	3950(D) 4150(D) 4800(D) 7500(B) 8400(C) 7100 6800	8400(B)
F-1 F-3 F-4, 5 AM-2 MM-3 AC-1, 2, 3 AC-4, 5 AC-6 to 12	3600 to 3652. 3653 to 3667. 3668 to 3769. 3900 to 3911. 3930 and 3931. 4000 to 4048. 4100 to 4125. 3800 to 3811, 4126 to 4294.	11000 10900 12800 13300				branches (B) Applies 3211, 33: and 8237 (C) Applies 3255, 325	NOT 2371 not to Engines 13, 3214, 32 only. to Engines 3 9, 3266, 3266	permitted 3201, 3203 24, 3227, 83	to 3205, 129, 3236
Mt-1, 3, 4, 5 Mt-2 GS-1, 2 GS-3, 4, 5, 6 SP-1, 2, 3	4300 to 4376. 4385 to 4390. 4400 to 4415. 4416 to 4469. 5000 to 5048.	9750 9600(E) 10200(E) 12950				only. (D) P-1, 3, permitted Kentucky	4, 5 and A-1 to operate b House.	, 6 Class En	ngines not nider and
Allowance for Empty and Underloaded Cars	Less than 45 Ms. 45 Ms to 55 Ms. More than 55 Ms.	3 0	6 3 0			5 0.07			

UNLESS AUTHORIZED BY SUPERINTENDENT, ENGINES WILL NOT BE PERMITTED TO OPERATE IN THOSE TERRITORIES WHERE NO RATING IS SHOWN IN ENGINE RATING TABLE.

40 LATHROP AND MERCED SUBDIVISIONS

RATING OF ENGINES—In Units of 1000 Lbs. (Ms)

									
NOMINAL CLASS	ENGINE NUMBERS	Galt to Edwin*	Edwin to lone*	lone to Edwin*	Edwin to Galt*	Lathrop and Freeno	Chowchille and Dairyland	Berenda to Daulton	Daulton to Berenda
DES-1,2,3,4,5,6,7 DES-100 to 107 E-23 M-4 M-6, 8 M-9, 11 M-11	1000 to 1022 1300 to 1395 1500 and 1502 1617 to 1713 1721 to 1803, 1823 to 1825 1804 to 1822, 1826 to 1831 and 1836 1832 to 1835	1900 2040	1190 1620	4040 5300	4040 5300 6200 6550 6820	3200 4500 3350 4450 5250 5500 5700	3990 5250 6100 6450 6750(D)	1500 2040 2400 2550 2650	4040 5300 6200 6550 6820
T-1 T-8, 9 T-23 T-26 T-28, 31 T-32, 40 T-36 T-37 T-57, 58	2242 to 2271 2161, 2174 and 2178. 2301 to 2310. 2283 to 2299 2311 to 2362. 2363 to 2384. 2103. 2105 and 2106. 2385 and 2386	1384 970 2000 1740 2220 2260(A) 1500 2000 1820	1384 970 1500	4500 3270 4800	4500 3270 6500 5730 7170 7300(A) 4800 6500 5880	3800 2750 5500 4800 6000 6150 4050 5450 4950	4450 3220 6450(D) 5650(D) 7100(D) 7200(A)(D) 4750 6450(D) 5800(D)	1750 1240 2520 2200 2790 2830(A) 1850 2530 2280	4500 3270 6500 5730 7170 7300(A) 4800 6500 5880
P-1, 3, 5 P-1 P-4 P-6 P-7 P-8, 10 P-8, 10 P-11 P-12	(2408, 2411 to 2413, 2416 to 2418, 2423, 2425 to 2435, 2437 to 2452, 2459 and 2460 2400, 2403 to 2407 and 2415. 2401, 2402, 2409, 2410, 2414, 2419, 2420, 2422, 2424 and 2436 2453, 2454 and 2458. 2476 and 2477. 2461 to 2474, 2478 to 2483. 2475, 2484 to 2491. 3100 to 3109.					4950 4950 5450 6100 6500 6800 6800 5250 6900	5850 6400		
C-5, 8, 9, 10, 26 to 29 C-15, 32 C-17 C-18 C-19 TW-1 TW-2, 3 TW-4, 6 TW-8	2513 to 2599, 2624 to 2860, 3440 to 3469. 2500, 2505 to 2507 2510 and 2511 3400 to 3409. 3410 to 3426. 2900 to 2913. 2932 to 2952. 2926 to 2931 and 2957. 2914 to 2923.	2430 1570 1950 2270 2360 1870 1500 1400 2060	1570	5050	7800 5050 6200 7230 7530 6000 4800 4600 6650	6600 4250 5200 6050 6300 5050 4050 3850 5550	7750 5000 6150 7180 7480 5950 4750 4550 6600	3050 1970 2440 2830 2950 2350 1880 1770 2590	7800 5050 6200 7230 7530 6000 4800 4600 6650
A-3 A-3 A-6 Mk-2, 4 Mk-5, 6 Mk-7, 8, 9 Mk-10 Mk-11	3029 3025, 3036, 3052 and 3057 3000 to 3003 3201 to 3240 3241 to 3277 3300 to 3324 3295 3297 and 3298	2720(B) 3100(C)			8800(B) 10000(C) 8450 8100	3900 3900 4800 7650 8450 9200 7100 6800	4600(D) 4600(D) 5650(D) 8800(B)(0) 9900(c)(B) 8350(D) 8000(D)	3430(B) 3900(C) 3320 3190	8800(B) 10000(C) 8450 8100
F-1 F-3 F-4, 5 AM-2 MM-3 AC-1, 2, 3 AC-4, 5 AC-6 to 12	3600 to 3652 3653 to 3667 3668 to 3769 3900 to 3911 3930 and 3931 4000 to 4048 4100 to 4125 3800 to 3811, 4126 to 4294					9600 11000 11000 10900 12800 13300 17300 18300	also apply I one whe place on be	tween Galt between Is n false be idges 135.87 NOTES: 2371 not branches. to Engines 1211, 3213,	dwin and nts are in and 136.54.
Mt-1, 3, 4, 5 Mt-2 GS-1, 2 GS-3, 4, 5, 6 SP-1, 2, 3	4300 to 4376. 4385 to 4390. 4400 to 4415. 4416 to 4469. 5000 to 5048.					9000 9750 9600(E) 10200(E) 12950	(C) Applies 3251,3263 3271, 327 (D) Not pe and Dairy	to Engines 3,3259, 2 and 3274 (ermitted be land. 5 Engines no	3241, 3247, 3266, 3268, only. tween Ash
Allowance for Empty and Underloaded Cars	(Less than 45 Ms 45 Ms to 55 Ms More than 55 Ms					6 3 0			

UNLESS AUTHORIZED BY SUPERINTENDENT, ENGINES WILL NOT BE PERMITTED TO OPERATE IN THOSE TERRITORIES WHERE NO RATING IS SHOWN IN ENGINE RATING TABLE.

RULE 14 (d). As specified below, — — — o will be indication that flagman may return from west as prescribed by Rule 99:

Fresno Trains on Pratton line. Biola Jct.... Trains on Biola line.

RULE 14 (e). As specified below, — — indication that flagman may return from east as prescribed by Rule 99.

Lathrop.....Trains on Merced line. Berenda.....Trains on Daulton line.

RULE 82 (A). Westward regular trains from Lathrop Subdivision to Merced Subdivision will assume the corresponding number and schedule at Lathrop without clearance.

Westward sections and extra trains authorized at Stockton by train-order for movement on Merced Subdivision may leave Lathrop without clearance.

Trains from Merced Subdivision will assume the corresponding number and schedule on Lathrop Subdivision and may leave Lathrop without clearance.

Extra trains from Merced Subdivision for movement eastward on Lathrop Subdivision may leave Lathrop without clearance.

Trains using west leg of wye to Merced Subdivision must obtain clearance before leaving Lathrop.

First-class trains and trains originating or terminating at Fresno need not obtain clearance or check register at Muscatel.

Westward trains originating at Fresno Yard will obtain train orders and check register at Muscatel instead of Fresno Yard.

RULE 83. Sections of first and third class schedules to Merced Subdivision having received their authority at Stockton, or east of Stockton, need not ascertain that preceding sections of the same schedule have left Lathrop. A leading section must not permit a following section to pass between Stockton train-order office and junction switch Lathrop except as provided by last paragraph of Rule 85.

Identification may be made by westward trains between Stockton and Lathrop to be applied at Lathrop on Merced Subdivision; and by westward trains between Fresno and Fresno Yard to be applied at end of double track Fresno Yard. Reduce speed sufficiently to permit identification and comply with Rule 14 (k).

RULE 83 (A). Only trains originating or terminating will register at Modesto and Merced.

Only trains terminating will register at Fresno Yard.

Trains originating or terminating on east leg of wye at Lathrop will not register at Lathrop.

RULE 83 (B). At open train-order offices trains may register by ticket as follows:

Lathrop All trains on Lathrop Subdivision and Merced Subdivision trains originating or terminating using west leg of wye.

Muscatel Trains not required to stop for other reasons.

RULE 93. Yard limits in which the provisions of Rule 93 will apply are established at the following points:

West M	P		East MP
80,56	Lathrop	(Tracy-Stockton line)	83.04
,	66		
109.94	Modesto)	114.93
124.98	Turlock		127.32
149.55			
182.67	Madera.		. 185.38
206.04	Fresno	(Pratton-Selma line)	210.81
208.44	**	(Biola-Exeter line)	. 208.15
199.07	**	(Merced-Clovis line)	209.60

Fresno. Trains or engines will not move against current of traffic on double track, except on authority of yardmaster. When making movements against current of traffic, trains or engines must be preceded by flagman over railway and street crossings at grade where wigwags installed, protecting crossings during movement. except where crossing watchman located.

Trains must receive proceed signal from yardman (green flag by day and green light by night) between Tulare St. (east of passenger station) and Merced St. (west of passenger station).

When Signal 2046 on Pratton line, or Signal 2042 on eastward track displays stop indication train must stop, and after proceed signal received from yardman (green flag by day and green light by night) may then proceed as prescribed by Rules 509 (F) and 513.

BULE 103 (A). Turlock. Switching must not be done over Main and Olive Street crossings between hours of 12 noon and 1.00 PM.

Public Utilities Commission orders require that trains and engines must stop, and member of crew must protect traffic on the following street or highway crossings before movement is made: Chowchilla....Highway crossing on Cardwell Co. spur.

RULE 104. The normal position of rigid switches at the end of double track and at junctions, is as follows:

Berenda Daulton line, for house track. Chowchilla....Dairyland line, for house track Fresno Yard . End double track, for westward track. Fresno Pratton line, for eastward main track.

RULE 105. Modesto. Eastward siding leaves main track 1740 feet east of MP 110 and enters main track 1800 feet east of MP 111. Westward siding leaves main track 3432 feet east of MP 113 and enters main track 2112 feet east of MP 112.

RULE 204. Trains of Lathrop or Merced Subdivision, with the same conductor and engineer operating through Lathrop may be issued train orders on one subdivision that affect their movement on the other, or both subdivisions.

RULE 221. Muscatel is train-order office for trains originating only.

Trains must obtain clearance before leaving Kismet Tower.

RULE D-251. Will apply as follows: On both main tracks. Between Fresno Yard and Calwa Tower.

RULE 505. AUTOMATIC BLOCK SYSTEM

Lathrop. Trains and engines stopped by Signal 828 may apply Rule 509 only after obtaining permission of train-order operator.

RULE 516. Overlap posts:
Manteca (2300 ft. east of west switch).....Eastward trains.

RULE 605. INTERLOCKING

Lathrop. East zone. Limits extend from 575 feet west of west switch of crossover to 65 feet east of east switch of crossover.

West zone. Limits extend from 360 feet west of junction switch to 340 feet east of junction switch.

South zone. Limits extend from 225 feet west of junction switch to 65 feet east of junction switch.

W. P. zone. Limits extend between semi-automatic signals either side of WPRR crossing.

Telephones at interlocking signals governing entrance to East, West, and South zones, and in door of concrete shelter at WPRR

Modesto Tower. TSRy crossing, MP 114.7. Signal operator on duty 9:00 AM to 12:00 noon, and 1:00 PM to 6:00 PM, daily except Sunday and holidays. During other hours signals and derails lined for SP movement. Instructions governing operation of interlocking posted in tower.

Kismet Tower. AT&SFRy crossing.

Biola Jct. Limits extend from signal 675 feet west of junction switch on Merced line and signal 575 feet west of junction switch on Biola line, to westward signal 930 feet east of junction switch on main track, and to dwarf signal at derail west end No. 1 drill track.

Junction switch, derail on Biola line 535 feet west of junction switch, and derail and switch at west end No. 1 drill track are dual control switches, operated from train-order office Fresno Yard. Telephones in concrete battery house Biola Jct., and at derail on Biola line to communicate with signal operator when necessary. Instructions governing hand operation of dual control switches when authorized by signal operator are posted in telephone booths.

Signal governing movement from No. 1 drill track displays green aspect for movement to Merced line; yellow aspect for movement to Biola line.

GENERAL REGULATIONS

RULE 827. TRAIN INSPECTION

Passenger trains making station stop at Modesto must approach at not to exceed 8 MPH to allow forward brakeman to detrain on station side where rear of train will stop. He will then make rolling inspection of train, then walk length of train on opposite side making standing inspection, giving careful attention to running gear and journal boxes and entrain on station side.

RULE 829. Turlock. City ordinance requires that highways or streets within city limits shall not be obstructed for longer than 10 minutes and that in event of fire alarm being sounded any train blocking Main St. must clear crossing immediately.

MISCELLANEOUS

1. When stopping to take water at Modesto, eastward freight trains leave train clear of L St. (second street west of passenger station), and westward trains clear of G St. (third street east of passenger station).

When stopping to take water at Merced, westward freight trains between 7.00 AM and 6:00 PM leave train east of crossing just east

of freight station building.

Emergency water supply only at Lathrop on westward track. 6. Cars must not be left on straight leg of wye, Lathrop, to

block tool house or crossover. During cotton season, cars will be spotted on main track at Pierce Road crossing, one mile west of Plains, Chowchilla Branch.

10. Engines listed must not operate on tracks shown below: Restricted Tracks Class of Engine

Mt-2, GS, F, SP, AM, MM, AC, P, and Eng. 2371.....Lathrop—Tracks leading to Lendlease.

Mk, Mt, GS, F, SP, AM, MM, AC, P, and Eng. 2371.....Lathrop—Fresno No. 2 track; beet track; slop track.

Manteca-Spreckels Sugar spur.

shed. shed.
inc., 2415, P-6, 7, 8, 10, 11, 12,
14, Mt, GS, F, SP, AM, MM,
AC, and Mk over 210,000 highway.

Rerenda Correl track AC, and Mk over 210,000 Berenda—Corral track. Madera—Winery spur.

Load limit (car and contents):
 Lathrop-Fresno
 240,000 pounds

 Chowchilla-MP 172.5
 210,000 pounds
210,000 pounds Berenda-Daulton ...

Unless authorized by Superintendent, heavier loads must not be

LOCATIONS WHERE SPEED BOARD RESTRICTIONS APPLY TO ONE OR MORE CURVES, STRUCTURES, OR EXTENDED SECTION OF TRACK.

For	Eastward Tr	ains	For Westward Trains				
Location of Speed Board MP	Beginning of Restriction MP	End of Restriction MP	Location of Speed Board MP	Beginning of Restriction MP	End of Restriction MP		
110.7 113.9 124.3 133.9 149.0 182.4 193.6 198.6 201.2	112.6 114.7 125.2 134.8 149.7 183.2 194.5 199.2	113.8 114.7 126.3 134.9 151.4 184.8 194.9 203.5 201.9	114.5 115.5 127.0 135.6 152.1 185.5 195.7 202.7	113.8 114.7 126.3 134.9 151.4 184.8 194.9 201.9	112.6 114.7 125.2 134.8 149.7 183.2 194.5 201.9		

LOCATION OF OVERHEAD AND SIDE STRUCTURES NOT STANDARD CLEARANCE ON MAIN TRACK AND SIDINGS Mile

Post At or Near

Description

LATHROP - FRESNO

134.8 Livingston....Merced River bridge.....Overhead and side

Sugar beet dump at Spreckels Sugar Beet Factory Manteca uncovered and care should be exercised by trainmen while working thereon.

SPEED RESTRICTIONS: Maximum speed of trains with engines of various classes is shown below. Trains with engines not listed must not exceed 35 MPH. Speed must be further restricted as required by speed boards, and may be exceeded only as authorized by special instructions herein, or by timetable builetin.

All trains must run carefully during and after heavy storms, particularly when the track is apf to be affected. When fog, storms or other conditions obscure track or signals, speed of trains must be so reduced as to permit strict observance of signals and INSURE ABSOLUTE SAFETY, REGARDLESS OF TIME.

| 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000

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				SPI	ECIAL	INST	RUCI	IQNS-	_MEF	CED	SUBDIV	ISION
CKING	5		ZAAZ	19	ងងខដង	888	8888	នេងនេង	22	ceed	peed	ion ling
ENGINE B.CKING	LIGH		A THE STATE OF THE	14	8588	888	8888	នេនដនន	12 : : : : : : : : : : : : : : : : : : :	not to ex	ngine when handling passenger train. weight; any equipment listed under ''Maximum Speed	With Caution Vot Exceeding MPH
WARD		DES-200 0-15-17-	782 Mk-2-4 10-11 AR AM MM	13	82828	888	8888	88888	12 12	ORY TUD	ain. er "Mi	Wil Not
LIGHT ENGINE RUNNING FORWARD	Ψ	7-1-8-9-23- 28-31-38- 67-68	C-2-4-5-8-19-19-19-28-27-28-28 F (if int CCB)	12	858858	888	8888	88888	32	11 сагв. п	ssenger tr isted und	NS TRACKS
ENGINE RI		DES 1 to 7 DES 100 to 107	7-26-32- 37-40 Mk-5-8-7- 8-9 F (GCB) AG-4-5-8-7- 8-9-10- 11-12	=	32825 8	388	8888	34888	32	dne and a	adling pas uipment l	Ţ.
LIGHT			S T L S	2	48838	448	8888	38888	32 : :	on eng	hen har any eq	STRICTIO IN MAIN
	동	AND	With Restricted Cors (see note)	8	3%8% 8	3%8	8888	38888	38	lonine	gine w	
	# RE	¥ĝ.	With no Resinicted (ston see) enaC	8	85885	388	82338	34888	38 : : ::	s funct	ame en thorw	SPEED
RWARD			G-15-17- 32 Mk-16- 11 MM	7	35 30 15 35	888	35	****	38 : :	brake	d the s ht, wid	FOR C
- ENGINE RUNNING FORWARD		DES 1 to 7			6 52 85 52 6	333	62.53	34888	38 : :	electro-menmatic brakes functioning on engine and all cars, may run not to exceed	in Speed Restrictions table. I must not exceed maximum speed permitted the san excess height or width; loads of excess height, width ch-bar trucks. In territory where 30 MPH is authorized in Column 14	
NGINE F	GER		AM B (if not CCB)	-	35851 358 318 318 318 318 318 318 318 318 318 31	4 44	85.45	33383	38	lectro	im spee is of ex	NE ING ING GHT
WITH TRAIN - E	ASSEN	2	T-1-8-9-23-28-31-36-67-58 MK-5-8-7-8-9-9 F (if CCB)	4	8%854	833	888	**************************************	38	ع. ا		ENGINE BACKING WITH TRAIN OR LIGHT
WITH	•		T-28-32- 37-40 AC-4-6- 6-7-8- 9-10- 11-12	100	82824	833	8884	38484	88	se stru	estricti t exceed ht or w rs.	LIGHT ENGINE RUNNING FORWARD
			14.3. 14.4.3.	2	32 82 14 15 25 14	8844	88	38484	88 : :	ded over these structures	In Speed Restrict T must not exceed the conference of the conferen	그미론인
			DEP P-7-8- 10-12 A Mt GS	- X	52823			:::::: 5854849	8228		ized in S 6 or 7 m s of exces h arch-b	FREIGHT AND MIXED
				COLUMN:	do		and Main Sta	ladera	ble track)	operate double-	MHP is author d in columns 5 ple loads; cars s; and cars wit	PASSENGER
		•	TERRITORY		Between Lathrop and Fresno, except. Through switches, East and West zones, Lathrop. MP 92.00-MP 94.00 On east Leg of wye, Lathrop. MP 112.60-MP 113.60 (Modesto)	MP 113.60-MP 130.50, except Over TSRy crossing, MP 114.70 MP 125.20-MP 126.30 (Turlock), except	*Entering intersections, Olive, Marshall and Main Sts., Turlock MP 134.64-MP 134.88 (Merced River bridge), except With GS, F, AC, or McZ, class engines#	MP 163.00-MP 181.50 Fresno River bridge Madera-east end siding Madera Over San Joaquin River bridge 194.52#. MP 199.28-Fresno, except	*Fresno, along or across street crossings	*Regulated by city ordinance. #GS, F, AC and Mt-2 class engines must not operate double-hea	76 MPH in territory where maximum speed of 70 MHP is authorized in Speed Restrictions table. *Freight and mixed trains with an engine listed in columns 5, 6 or 7 must not exceed maximum speed permitted the same engine when handling passenger train (Note) RESTRICTED CARS: Twin or multiple loads; cars of excess height or width; loads of excess height, width or weight; any equipment listed under permitted with Certain Equipment'; scale test cars; and cars with arch-bar trucks. DES 1 to 7 and DES 100 to 107 may make maximum of 40 MPH in territory where 30 MPH is authorized in Column 14.	TERRITORY

	~	
With Caution Not Exceeding MPH	vers, 15 10 20	٠.
SPEED RESTRICTIONS FOR OTHER THAN MAIN TRACKS	Through sidings, yard and other side-tracks, crossovers, turnouts and slip-switches, except: With engine backing	
ENGINE BACKING WITH TRAIN OR LIGHT	15 20 10	
LIGHT ENGINE RUNNING FORWARD	15 20 10	
FREIGHT AND MIXED	8801	
PASSENGER	20 10 10 10	
TERRITORY	Between Berenda and Daulton. Between Chowchilla and Dairyland, except Ash-Dairyland.	

RULE 14 (d). As specified below, — — — o will be indication that flagman may return from west as prescribed by Rule 99: Newark and Santa Clara. . Trains on Elmhurst-Santa Clara line. Niles......Trains on Elmhurst-San Jose line.

RULE 14 (e). As specified below. — dication that flagman may return from east as prescribed by Rule 99: Elmhurst-Newark-Santa Clara...Trains on Elmhurst-Santa Clara line.

Niles...... Trains on Milpitas line.

RULE 14 (1). Whistle signal must be sounded and bell kept ringing when entering or leaving the Sugar Co.'s yard at Alvarado or approaching their road crossing.

RULE 14 (m). Whistle will not be sounded one mile before reaching stations between:

Oakland Pier and Elmhurst.

RULES 17 and 17 (C). Headlights of engines standing at end of wharf at Oakland Pier must be extinguished when steamers are entering slip. Headlights of eastward trains must be extinguished while standing at Oakland Pier and dimmed until Oakland Pier Tower has been passed.

RULE 21 (C). Passenger engines to handle trains from Oak-

land Pier may display indicators before leaving West Oakland.

Indicators of engines on trains arriving Oakland Pier may be displayed until engine reaches roundhouse at West Oakland, and must be removed immediately on arrival at delivery track.

RULE 82 (A). Trains receiving Western Division clearance at San Jose may leave Santa Clara without clearance.

RULE 83. Identification may be made by eastward trains between Redwood Jct. and end of double track to be applied at end of double track. Reduce speed sufficiently to permit identification and comply with Rule 14 (k).

RULE 83 (A). Only trains originating or terminating will register at West Oakland, Newark and Livermore.

Extra trains will register at Niles Tower and Niles.

Trains originating or terminating San Jose Yard will register

RULE 83 (B). At open train-order offices trains may register by ticket as follows:

Elmhurst......Regular trains. Niles All trains. Niles Tower....All trains. Redwood Jct....All trains.

Newark Nos. 407 and 406.

Santa Clara.....All trains at Santa Clara.

RULE 84. Proceed signal 12 (c) must be used to start trains from Oakland Pier.

RULE 93. When freight cars are moved from one point to another on main track within Oakland yard limits at might, a red light must be displayed on rear of rear car.

Yard limits in which the provisions of Rule 93 will apply, are

established at the following points:

West	MP	E:	ast MP
	Oakland	(Martinez line)	17.35
	44	(Niles line)	15.82
	"	(Alvarado line)	14.01
17.75	Havward		21.69
80.70	Tracv	(Martinez-Los Banos line)	85.64
69.19	46	(Niles-Lathrop line)	74.37
24.44	Redwood Jct.	(San Mateo-Newark line)	28.22
	4 4	(Palo Alto line)	27.17
35.20	Newark	(Centerville-Redwood Jct. line)	38.51
28.79	*10	(Alvarado-Santa Clara line)	32.25
41.29	Niles	(Tracy-Redwood Jct. line)	30.67
27.37	46	(Hayward-Milpitas line)	30.95
41.70	Eliot		45.40
63.25	"	(San Ramon line)	10.10
45.89	Livermore		48.66
54.03	Altamont		55.64
43.47	San Jose	(Palo Alto-Coyote line)	56.00
44.85	u u	(Milpitas line)	00.00
43.74	46 46	(Alviso line)	
		7 () 6 37/1 12	

Tracy. Eastward trains from Niles line must receive proceed signal from yardman before passing Signal 704.

RULE 95. Train orders issued under Form F reading to or from Santa Clara will apply over the Coast Division into or out of San Jose.

Nos. 401, 409 and 413 and sections of those schedules will be cleared at Redwood Jct. according to their identification arriving at that point, and are authorized to display this identification to Bayshore without train-order authority, clearance for sections to show "No signals" or "Green signals" following train number.

RULE D-97 (A). Will apply between Oakland Pier and Elmhurst.

RULE 103 (A). Oakland. When moving against current of traffic flagman must protect crossing before moving over 5th, 19th, 29th Aves., and High St.

Public Utilities Commission orders require that trains and engines must stop, and member of crew must protect traffic on the following street or highway crossings before movement is made: Mulford......Crossing Maitland Drive on Airport drill.

RULE 104. The normal position of rigid switches at the end of double track and at junctions, is as follows:

Elmhurst...... End of double track, for eastward track;

Alvarado line, for Niles line;

Stonehurst line, for house track extension.

Switches handled by operator for trains. Whistle signals: For Alvarado line, o — For Niles line, — o —.

NilesNiles Tower line, for Elmhurst-Livermore line.

Westward trains from Niles Tower line intending to use crossover west of station building must remain clear of crossover until both switches have been lined, then be governed by indication in

Tracy......Niles line, for Martinez line.

Tracv...... End double track, for eastward track.

Tracy.....Los Banos line, for Niles line.

RULE 105. Eliot. Siding No. 1 is first track north of main track. Siding No. 2 is second track north of main track and connects with Siding No. 1 at both ends.

These sidings may be used by trains in either direction, or as instructed by train dispatcher.

Livermore. Siding No. 1 extends from station building westward 4600 feet and to be used by eastward trains.

Siding No. 2 extends from switch 2000 feet east of station build-

ing 4000 feet and to be used by westward trains. Connection between siding No. 1 and siding No. 2 must be left clear. Trains may move from one siding to the other only after authority has been given by train dispatcher.

Alvarado. Siding extends from crossover 250 feet west of station building to west end.

Hayward. Siding extends from crossover 1500 feet west of station building to west end.

Newark. Siding on Tracy-Redwood Jct. line is located west of Elmhurst-Santa Clara line crossing.

Siding on Elmhurst-Santa Clara line is located east of Tracy-Redwood Jct. line crossing, and extends from initial switch at east

end to crossover only. Passenger siding on Elmhurst-Santa Clara line is located west of station building; extends from crossover 300 feet west of station building to west end; has capacity of engine and 13 passenger cars; must be left clear of cars, and to be used by passenger trains when authorized by train order.

RULE 221. West Oakland is a train-order office only for trains originating.

Nos. 250 and 74, and eastward extra trains consisting of passenger equipment only to Coast Division, may leave Santa Clara without clearance.

Trains must obtain clearance before leaving Newark and Niles.

RULE D-251. Will apply as follows:

On both main tracks, between Oakland Pier and Elmhurst.

RULE 505. AUTOMATIC BLOCK SYSTEM

Elmhurst. Signals are numbered as automatic and are under control of train-order operator. When signals display stop indication, trains must stop, and not proceed until signal displays proceed indication, or proceed signal is given by operator with yellow flag by day or yellow light by night.

Tracy. Signals are numbered as automatic and are under control of switch tender. When "stop" is indicated, trains must stop and not proceed until "proceed" is indicated or proceed signal is given with green flag or green light by switch tender.

Eastward movements governed by dwarf light signals 710, 712,

Westward movements from Lathrop Subdivision governed by Signal 713 located 300 feet east of puzzle switch, the top light governs movement on main track and the lower light governs move-ment to hill or local yard, and dwarf light signal 715 located on right of eastward track 300 feet east of puzzle switch governs movement to all routes.

Westward movement from Los Banos Subdivision governed by Signal 823, located 300 feet east of puzzle switch, top arm governs movement on main track and lower arm governs movement to hill

or local yard.

Westward freight trains stopped by Signal 717, located east of overhead crossing east of Tracy, use telephone located on this signal, call switch tender at puzzle switch and be governed by his instruc-

Trains and engines stopped by Signal 709 may then proceed with caution if proceed signal received from yardman.

RULE 510. Following block signals equipped with a triangular number plate displaying the letter. "P", have included in their control limits some special protective device:

Eastwa Signal		stward Signals
P-526 P-386	Spring switch, Shinn. Rock slide detector fence, MP 53.5. Collision detector, bridges 39.26 and 39.44 (Alviso)	P-423 P-543
1-000	Collision detector, bridge 39.26 (Alviso)	P-393 P-413

RULE 516. Overlap posts:

Hayward (3600 feet east of Signal 187) ... Westward trains. Livermore (1275 feet east of Signal 473) .. Westward trains. Livermore (850 feet west of Signal 470) . . Eastward trains.

RULE 535. SPRING SWITCHES

Spring switches not equipped with facing point locks are located as follows, and speed indicated in Speed Restrictions table must not be exceeded while passing over them in facing movement, or in trailing through them:

Location	Normal Position
	trackWestward trackingMain track

Spring switches are also located on other tracks as follows:

West Oakland. Two on incoming engine leads, east of roundhouse; two on outgoing freight engine lead, near tin shop, and one on outgoing engine lead west of roundhouse.

Sather. Tail track to Hutchison drill.

Oakland Pier. West end of tracks 4, 5 and 6.

Tracy. Spring derail on sewer lead, just west of roundhouse leads.

RULE 605. INTERLOCKING

Ou double track within Oakland yard limits signal operator may arrange to move trains from one tower to another against the current of traffic, after having an understanding by telephone for each movement. Before moving trains against current of traffic signal operator must know that track to be used is clear of opposing engines and trains.

Oakland Pier. Limits extend eastward to automatic Signal 40 on eastward main track and to home signal 450 feet east of Signal 40 on westward main track on Martinez line, and to automatic Signal 42 on both main tracks on Niles line, and on yard tracks 9 and 10 to Signal 44; and on yard tracks 11, 12 and 13 to home signal 175 feet east of Maritime overpass.

When siren whistle is sounded, all movement must stop and

await proper signal.

The last signal governing movement into any track except tracks 17, 18, 19 and 20 is a two-arm dwarf signal. When home signal displays proceed indication, and approach signal displays yellow aspect, it indicates that movement is to be made into a track occupied by engines or cars. Responsibility for collision will rest with train or engine entering.

Niles Tower. Limits extend from dwarf signal on Niles line and signal on Tracy line 1685 feet from WPRR crossing, to Signal 300 on Milpitas line and to Signal P-423 on Centerville line, and also

includes Milpitas-Centerville leg of wye.

Junction switch at Niles Jct. is remotely controlled by signal operator at Niles Tower. When necessary to hand throw this switch permission must be obtained from signal operator and switch must be cranked over. Instructions for operation posted on crank box opposite switch.

Derail near east end of yard track No. 1 at Niles is electrically locked and under control of signal operator at Niles Tower. Instructions for operation by hand when authorized by signal operator

are posted inside of lock box. Whistle signals:

To San Jose, o To Centerville, - o -. To Niles, o — o. To Tracy, — o — o.

Engines from trains to Niles for water, o — o —

Newark. Limits extend from signal 50 feet east of wye switch on Centerville line to signal 1150 feet east of wye switch on Santa Clara line, and to signal 650 feet west of wye switch on Elmhurst line, and to dwarf signals on Redwood Jct. line near Newark station building.

Switches and derails at west end of extension of Santa Clara line siding and east end of house track are electrically locked and controlled by signal operator. Instructions for operation posted inside of lock box.

Whistle signals:

To Santa Clara, o ---To Santa Clara line siding, o - - o. To Santa Clara line siding extension, - o.

To Redwood Jct., — o — o.

To Dumbarton line siding, — o — o o.

To Centerville, — o—.
To Elmhurst, o — o.

Newark Slough drawbridge, MP 34.53 on Redwood Jct. line. No signal operator regularly on duty. Signals and derails lined for train movement except when signal operator occasionally on duty. If signals display stop indication and derails properly lined, train may follow flagman through interlocking limits.

San Francisco Bay drawbridge, MP 32.53 on Redwood Jct. line. Derails in main track within interlocking limits east and west of

draw span.

West Oakland (First and Cedar Sts.). Limits on Niles line extend from Signal Bridge 110 to Signal Bridge 112. Limits on eastward main track on Martinez line extend from signal 500 feet west of freight lead crossing to 1700 feet east of freight lead crossing. Limits on westward main track on Martinez line extend from 1600 feet east of freight lead crossing to 450 feet east of Signal 40. Limits on eastward and westward freight leads extend from westward signals 2000 feet east of Martinez line main track crossing to Signal Bridge 112 on Niles line, and to westward signals on passenger yard leads 40, 50 and 60.

Magnolia Tower (First and Chestnut Sts.). Limits extend on eastward main track from signal 1600 feet west of WPRR crossing to dwarf signal 500 feet east of WPRR crossing, and on westward main track from signal 500 feet east of WPRR crossing to dwarf signal 480 feet west of crossing.

Fruitvale. Limits on main track extend from Signal Bridge 123 to Signal Bridge 127 on westward track, and to westward dwarf signal 680 feet west of Signal Bridge 127 on eastward track.

Radum. Limits on main tracks extend from home signal at west wye switch to home signal at east wye switch on Niles-Tracy line, and to home signal at wye switch on Radum-San Ramon line. Interlocking signals for Niles-Tracy line and for WPRR main

track will normally display proceed indication for both directions.

If a train on Niles-Tracy line is stopped by interlocking signal when no signal operator on duty, train may flag through interlocking

GENERAL REGULATIONS

RULE 824. Tracy. Before engine is detached when train stops on yard track in Hill yard not less than three hand brakes must be set on cut west of C St., and four hand brakes must be set on east end of train.

RULE 825. Train crews must not release hand brakes on outbound trains at Tracy until engine is coupled and brake pipe is charged.

AIR BRAKE RULES

RULE 2. Running test must be made immediately after engine is detached from trains arriving Oakland Pier.

RULE 17. Retainers must be used on freight and mixed trains as follows:

With 20 or more cars, and tonnage averaging over 150 Ms per operative brake, use 10 retainers on head end of train, or more if requested by engineer, Altamont to Midway.

FREIGHT TRAINS

RULE 25. Rear end test must be made immediately prior to departure from:

Altamont.....Trains that stop.

Freight trains may pass Altamont without stopping for rear end test if proceed signals are given by trainmen after complying with Air Brake Rule 4. Speed must be reduced to 8 MPH. Helper engineers will reduce working steam sufficiently in advance so that lead engineer may control speed by gravity.

PASSENGER TRAINS

RULE 39. Running test must be made as follows: Westward trains for Oakland Pier, immediately after passing Magnolia Tower.

Equipment being handled between West Oakland and Oakland Pier, as soon as practicable after starting.

Eastward and westward trains at Altamont.

Elmhurst-Santa Clara ...

handled.

MISCELLANEOUS

10. Engines listed must not Class of Engine	operate on tracks shown below: Restricted Tracks
Mk, Mt, GS, F, SP, AM, MM, AC, P, and Eng. 2371	Ravenswood—Spurs. Newark—Hillard, Leslie and Morton Salt spurs; West- vaco Chemical spur.
Mk.7-8-9, Mt, GS, F, SP, AM, MM, A P, and Eng. 2371	AC, Mulford — Automotive Fibers spur, Alvarado—Sugar spurs.
Mk, Mt, GS, F, SP, AM, MM, AC, P, and Eng. 2371	Alviso — Cannery spur; Shell spur. Agnew—Distillery spur.
Load limit (car and contents) Redwood JctTracy Oakland-San Jose via Niles	240,000 pounds

Unless authorized by Superintendent, heavier loads must not be

...240,000 pounds

LOCATIONS WHERE SPEED BOARD RESTRICTIONS APPLY TO ONE OR MORE CURVES, STRUCTURES, OR EXTENDED SECTION OF TRACK.

For Eastward Trains			For Westward Trains			
Location of Beginning Speed Board Restriction MP		End of Restriction MP	Location of Beginning of Speed Board Restriction MP		End of Restriction MP	
	OA	KLAND-TR	ACY VIA N	ILES		
9.8 40.9 45.4 51.3 12.6 13.5 28.0 35.3 38.4	10.5 41.7 46.1 52.0	37.1 45.4 47.6 63.0	37.8 46.1 48.4 63.7 SANTA OLA 14.1 14.4 15.4 33.0 37.5	37.1 45.4 47.6 63.0 RA 13.7 14.7 32.3 36.8	10.5 41.7 46.1 52.0 13.4 14.2 28.7 36.0 39.0	
REDWOOD JCTNILES				CT. 40.1	38.0	
30.8 33.5 34.6	31.5 34.2 35.3	33.0 34.4 38.5	33.7 35.2 39.3	33.0 34.4 38.5	31.5 34.2 35.3	

LOCATION OF OVERHEAD AND SIDE STRUCTURES NOT STANDARD CLEARANCE ON MAIN TRACK AND SIDINGS

Mile Post	At or Near	Description
28.9	Henderson	. Highway underpassSide
32.5	Dumbarton	. San Francisco Bay drawbridgeSide
34.5		. Newark Slough drawbridgeSide
42.9		. Highway underpass
30.8		. Alameda Creek bridgeSide
31.5	Farwell	. Alameda Creek bridge Overhead and side
38.3	Pleasanton	. WPRR overhead bridge Overhead
55.4	Altamont	. Highway overhead bridge Overhead and side
57.9		. Tunnel
18.2		. San Lorenzo Creek bridge Overhead and side
24.2	Halvern	. WPRR overhead bridge Overhead
29.4		. Highway underpassSide
3.5		. Posts supporting trainshedSide
36.2	Drawbridge	
36.8		Coyote Creek bridgeSide
29.4	Niles Tower	Street underpassSide

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SPEED RESTRICTIONS: Maximum speed of trains with engines of various classes is shown below. Trains with engines not listed must not exceed 35 MPH. Speed must be further restricted as required by speed boards, and may be exceeded only as authorized by special instructions herein, or by timetable bulletin.

All trains must run carefully during and after heavy storms, particularly when the track is apt to be affected. When fog, storms or other conditions obscure track or signals, speed of trains must be so reduced as to permit strict observance of signals and INSURE ABSOLUTE SAFETY, REGARDLESS OF TIME.

The state of the s

			S	PECIAL	INSTRUCT	IONS-	-NILES	SUBDI	VISION		
OKING	N OR		5	88888	28888888	20 15 15	85888	22 22 22 23 24 25 25 25 25 25 25 25 25 25 25 25 25 25	25 25 12 12 12	25 15	
ENGINE B	WITH THAIN OR		14	88888	188888889	8353	88838	30 30 30 30 30	25 25 20 12	25 15	
WARD			2	88888	28 68 8882	25 15 15	25233	30 30 30 30 30	25 30 30 12	25 15	į
LIGHT ENGINE RUNNING FORWARD		September 200 Se	12	88888	1 888 88888	25 15 15	30 30 12 20 20 20 20 20 20 20 20 20 20 20 20 20	35555	25 35 35 12	25 15	
ENGINE BU		7.000 10 10 10 10 10 10 10 10 10 10 10 10	11,	38888 :	1888888888889	25 15 15	20212	35 35 35 35	25 25 35 35 12	25 15	
LIGHT			2	328825	1888888889	25 15 15	988318	55 55 55 55 55 55 55 55 55 55 55 55 55	1233533	25 15	
	동	(630U 666) \$180	6.	928825	1 8888888 2	122	488358	5555586	128888	25 15	
	FRE	With no Restricted Cars (see note)		42882 ;	1388888888	5555	48838	255 255 255 255 255 255 255 255 255 255	1233333	25 15	
FORWARD		6-15-17- 32 Mk-10- 11 MM	7	320033	188888888	35 15	250035	32 32 32 32 32 32 32 32 32 32 32 32 32 3	128888	25 15	
RUNNING FOR		DES 1 to 7 DES 1 to 7 107 0-2-4-5-8- 2-10-18-19- 7-W-2-4 Mik-2-4 F (if not CCB)	8	3888 3;	138888888	40 15 15	98838	485555 40	25485 25485	25 15	
ENGINE RU	NGER	AM B (if not CCB)	•	48884 ;	1033333331	40 15 15	25 25 25 25 25 25 25 25 25 25 25 25 25 2	22 22 32 42 42 42 42 43 43 43 43 43 43 43 43 43 43 43 43 43	045452 12442	25 15	
THAIN - EN	PASSE	M T-1-8-8-23- 28-31-36- 67-58 MK-5-8-7- 8-9 F (If CCB) SP (If CCB)	-	84883	188888888	40 15 16 15	20 20 20 20 20 20 20	22222	04 04 05 05 05 05 05 05 05 05 05 05 05 05 05	25 15	
T HTIW		7-26-32- 37-40 AC-4-5- 6-7-8- 11-12		38883	188888880	40 15 15 15	88838	888888	9424031 1250421	25 15	
		=====================================	~	82883	1088888888	40 15 15	25888	23223	\$\$485 125	72 12 12	
		DEP P-7-8- 10-12 Mt Mt	-			4555	8222	5222884	348482	25 15	
		TERRITORY	COLUMN:	Between Redwood Jot. and Tracy, except Over spring switch, end double track, Redwood Jot. MP 31.51-MP 33.00 (San Francisco Bay bridge) MP 34.53, over Newark Slough drawbridge and approaches. MP 35.20-MP 38.51 (Newark)	Inrough junction switches, Shinn to Niles Jot. Inles JotMP 37.10 and 37.10-MP 46.10, except MP 47.10-MP 45.40 (Eliot yard limits) *MP 46.10-MP 47.60 (Livermore city limits) MP 47.60-MP 52.00 MP 52.00-MP 63.00 MP 63.00-C St. crossing, Tracy C St. crossing-end double track	Between Niles and San Jose Yard, except. With GS, F, AC, Mt class engines. Passing Niles Tower. MP 44.85-San Jose Yard (San Jose yard limits)	Between Oakland Pier and Santa Clara, except. Oakland Pier-MP 10.50, except On curve west of and across freight leads to West Oakland. Across main track on both leads to West Oakland. Over Adeline St. erossing Oakland	*Between Market St. and Oak St., Oakland. MP 10.50-Elmhurst Over junction switch, Elmhurst On curve at MP 13.50 On curve at MP 13.50 Elmhurst-MP 3.30 with GS or Mt class engines	MP 28.79-MP 32.30 (Newark) MP 36.00-east end bridge 36.83 MP 39.00-MP 40.10 (on curves) MP 43.70-Santa Clara *Over Stockton Ave. and Emery St., San Jose, 10 PM—6 AM	Between Elmhurst and Niles Jct., except. Over Davis St., San Leandro.	*Regulated by city ordinance.

Trains must not exceed 20 MPH when passing other trains being serviced between Cedar and Kirkham Sts., Oakland. "Regulated by city ordinance.

GS, F, AC, Mt-2 class engines must not operate double-headed over Alameda Creek bridge 31.56, west of Farwell nor over San Lorenzo Creek bridge 18.16 east of Lorenzo.

(Note) RESTRICTED CARS: Twin or multiple loads; cars of excess height or width; loads of excess height, width or weight; any equipment listed nnder "Maximum Speed permitted with Certain Equipment"; scale test cars; and cars with arch-bar trucks. *Freight and mixed trains with an engine listed in columns 5, 6 or 7 must not exceed maximum speed permitted the same engine when handling passenger train.

DES 1 to 7 and DES 100 to 107 may make maximum of 40 MPH in territory where 30 MPH is authorized in Column 14.

With Caution Not Exceeding MPH 55 8 10 Through sidings, yard and other side-tracks, crossovers, turnouts and slip-switches, except: Ravenswood, on spur
Through any siding, crossover, turnout or slip-switch
with engine backing SPEED RESTRICTIONS FOR OTHER THAN MAIN TRACKS

NILES SUBDIVISION

RATING OF ENGINES—In Units of 1000 Lbs. (Ms)

<u></u>							
NOMINAL CLASS	ENGINE NUMBERS	Oakland and Sania Clara	Oakland and San Jose Yard via Niles	Niles and Redwood Jct.	Tracy th Niles	Niles to Tracy	
DES-1, 2, 3, 4, 5, 6, 7 DES-100 to 107 E-23 M-4 M-6, 8 M-9, 11 M-11	1000 to 1022 1300 to 1395. 1500 and 1502 1617 to 1713 1721 to 1803, 1823 to 1825 1804 to 1822, 1826 to 1831 and 1836 1832 to 1835	4450 5250 5500	1950 3100 2600 3450 4100 4300 4450	3200 4500 4000 5250 6150 6500 6800	800 1250 1000 1400 1650 1750 1800	850 1350 1050 1500 1750 1850 1900	
T-1 T-8, 9 T-23 T-26 T-28, 31 T-32, 40 T-36 T-37 T-57, 58	2242 to 2271 2161, 2174 and 2178 2301 to 2310 2283 to 2299 2311 to 2362 2363 to 2384 2103 2105 and 2106 2385 and 2386	3800 2750 5500 4800 6000 6150 4050 5450 4950	2950 2100 4300 3750 4700 4800 3150 4250 3850	4500 3250 6450 5550 7100 7100 4800 6500 5850	1150 - 830 1750 1500 1900 1950 1300 1700 1550	1250 880 1850 1600 2000 2050 1350 1800 1650	
P-1, 3, 5 P-1 P-4 P-6 P-7 P-8, 10 P-8, 10 P-11 P-12	{2408, 2411 to 2413, 2416 to 2418, 2423, 2425 to 2435, 2437 to 2452, 2459 and 2460 2400, 2403 to 2407 and 2415. 2401, 2402, 2409, 2410, 2414, 2419, 2420, 2422, 2424 and 2436 2453, 2454 and 2458. 2476 and 2477. 2461 to 2474, 2478 to 2483. 2475, 2484 to 2491. 3100 to 3109. 3120 to 3129.	6100 6500 6800 6800	3850 4150 4550 4750 5050 5300 5700 4100 5350	5700 5700 6250 7050 7750 7950 7950 6150 8100	1500 1500 1650 1900 2050 2050 2050 1650 2100	1600 1600 1750 2000 2150 2200 2200 1750 2200	
C-5, 8, 9, 10, 26 to 29 C-15, 32 C-17 C-18 C-19 TW-1 TW-2, 3 TW-4, 6 TW-8	2513 to 2599, 2624 to 2860, 3440 to 3469. 2500, 2505 to 2507. 2510 and 2511 3400 to 3409. 3410 to 3426. 2900 to 2913. 2932 to 2952. 2926 to 2931 and 2957. 2914 to 2923.	6600 4250 5200 6050 6300 5050 4050 3850 5550	5150 3300 4050 4750 4950 3950 3150 3000 4350	7850 5050 6200 7200 7500 6000 4800 4600 6600	2100 1350 1700 1950 2000 1600 1250 1200 1750	2200 1400 1800 2050 2150 1700 1350 1250 1850	
A-3 A-3 A-6 Mk-2, 4 Mk-5, 6 Mk-7, 8, 9 Mk-10 Mk-11	3029. 3025, 3036, 3052 and 3057. 3000 to 3003. 3201 to 3240. 3241 to 3277. 3300 to 3324. 3295. 3297 and 3298.	3900 3900 4800 7650 8450 9200 7100 6800	3050 3300 4050 5950 6600 7200 5550 5300	4400 4400 5400 9100 9950 10900 8450 8050	1150 1150 1450 2400 2700 2950 2300 2200	1200 1200 1550 2550 2850 3150 2400 2300	
F-1 F-3 F-4, 5 AM-2 MM-3 AC-1, 2, 3 AC-4, 5 AC-6 to 12	3600 to 3652 3653 to 3667 3668 to 3769 3900 to 3911 3930 and 3931 4000 to 4048 4100 to 4125 3800 to 3811, 4126 to 4294	9600 11000 11000 10900 12800 13300 17300 18300	7500 8600 9150 8500 10000 10400 13500 14300	11400 13100 13100 12900 15200 15800 18500	3050 3550 3550 3500 3950 4300 5600 5900	3250 3750 3750 3700 4300 4550 5950 6200	
Mt-1, 3, 4, 5 Mt-2 GS-1, 2 GS-3, 4, 5, 6 SP-1, 2, 3	4300 to 4376. 4385 to 4390. 4400 to 4415. 4416 to 4469. 5000 to 5048.	9000 9750 9600 10200 12950	7450 7600 7800 8000 10150	10550 11500 11250 12000 15350	2800 3050 3000 3100 4150	3000 3250 3150 3300 4400	
Allowance for Empty and Underloaded Cars	(Less than 45 Ms. 45 Ms to 55 Ms. More than 55 Ms.	6 3 0	6 3 0	6 3 0	3 3 0	3 3 0	

UNLESS AUTHORIZED BY SUPERINTENDENT, ENGINES WILL NOT BE PERMITTED TO OPERATE IN THOSE TERRITORIES WHERE NO RATING IS SHOWN IN ENGINE RATING TABLE.

DIVISION MILEAGE

MAIN	LINES

First Main Track: MAIN LINES	
(C. P. Rv. 1.01	
Oakland Pier to Washington	87.21
Davis to end of division	1.45
Martinez to Tracy Oakland Pier to Tracy via Niles C. P. Ry	47.62 66.97
Tracy to Polk	60.74
Tracy to Fresno via Kerman	124.18
Lathrop to Biola Jet	106.45
Elmhurst to Santa Clara S. P. Co	30.26 15.51
Redwood Jct. to Niles Tower. C. P. Ry. Niles to San Jose. C. P. Ry.	15.41
Kerman to Biola Jct. S. P. R. R.	14.52
Total First Main Track	570.32
Second Main Track:	
Oakland Pier to Washington	87.34
Martinez to Mococo	.96
Oakland Pier to Elmhurst	9.17
Tracy to Akers	23.85
Total Second Main Track	121.32
Total Main Lines.	691.64
BRANCH LINES	
Richmond spur San Pablo to Richmond Transfer. S. P. R. R	2.06
NapaSuisun-Fairfield to CalistogaS. P. R. R	47.34
Valleio Nana Ict to Valleio S. P. R. R.	7.13
Schellville Napa Jct. to Schellville S. P. R. R. Union Union to West Napa S. P. R. R.	11.30
Union	2.01 30.74
Winters Elmira to Esparto S. P. R. R	29.85
Oakdale Stockton to Montpellier S. P. R. R.	49.33
OakdaleStockton to Montpellier. S. P. R. R. (Lodi to WoodbridgeS. P. R. R. 2.59	
Lodi to Kentucky House S. P. R. R. 26.67 S. P. Co. 12.65 Ione S. P. R. R	41.01
Colt to Jone	41.91 26.91
Riverdale Ingle to end of division	.25
Chowchilla Chowchilla to Dairyland S. P. Co	10.23
Berenda Berenda to Daulton S. P. R. R	11.90
Madera spurMadera to end of spurS. P. R. R	3.93
Elmhurst to Stonehurst S. P. R. R	.10
Total Branches	275.64
	007 00
Total Western Division	967.28

SPEED TABLE

	STEED TABLE	
TIME		MILES
PER		PER
MILE		HOUR
36"		. 100
37"	***********	97.3
38"		94.7
39"		92.3
40"		. 90
41"		. 87.8
42"		85.7
43"		. 83.7
44"		. 81.8
45"		. 80
46"		. 78.3
47"		. 76.6
48"		. 75
49″ 50″	,	. 73.5
-	THE RESERVE THE PERSON NAMED IN COLUMN 2 I	. 72
51′ 52′	,	. 70.6
53"	,	69.2
54"	,	66.7
55"		65.5
56"		. 64.3
57"		63.2
58"		. 62.1
59"		. 61
1'00"		. 60
1'01"		. 59
1'02"		. 58.1
1'03"		. 57.1
1'04"		. 56.2 . 55.4
1'06"		. 54.5
1'08"		. 53.7
1'09"		52.2
1'10'	·	. 51.4
1'11'	,	. 50.7
1'12"		. 50
1'13'		. 49.3
1'14"		. 48.6
1′15″		. 48
1'16"		. 47.4
1'17"	,	. 46.8
1'19"		45.6
1'20"		. 45
1′25″		42.4
1'30"	,	. 40
1'35"		37.9
1'40"	,	. 36
1'45"		. 34.3
1'50"		. 32.7
1′55″		. 31.3
2'00"	,	. 30
2'30"		. 24
2'45'		. 21.8
3'00'		. 21.8
3'30"		. 17.1
4'00'		. 15
5'00'		. 12
6'00"		. 10
7'00'	*	. 8.6
7'30'		. 8_
8'00'		. 7.5
10'00'		. 6

