ACTING TERMINAL SUPERINTENDENT T. F. GOODWIN......Oakland ASST. TERMINAL SUPERINTENDENTS F. J. DIGNON......Oakland M. A. JENSEN.....Oakland TRAINMASTERS A. J. FERRARA.....Oakland Pier A. W. KILBORN.....Oakland Pier R. R. ROBINSON Suisun-Fairfield L. W. MONEY.....Stockton N. B. EDDLESTONE......Tracv ASSISTANT TRAINMASTERS A. G. BAYS Pittsburg I. O. UNDERHILL Livermore TERMINAL TRAINMASTERS W. S. CHAMNEY......Oakland W. J. CLENDENNING......Oakland J. H. LONG.....Oakland J. T. WALL.....Oakland J. T. AREY....Port Costa ROAD FOREMEN OF ENGINES S. H. BRAY......West Oakland B. E. STONE......Tracy **ENGINEMEN INSTRUCTORS** J. H. SUSKE......West Oakland E. L. COOPER.....Tracy ASSISTANT TRAINMASTER-DIVISION EXAMINER W. S. HOOSON......Oakland CHIEF TRAIN DISPATCHERS S. C. W. HANSEN.....Stockton

F. E. KALBAUGH Assistant Superintendent, Oakland Pier

W. E. EASTMAN
Acting Assistant Superintendent, Stockton

C. F. HEATH
Assistant Superintendent, Oakland Pier

SOUTHERN PACIFIC COMPANY



WESTERN DIVISION TIMETABLE

241

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.

> > G. C. BAKER, General Superintendent of Transportation.

> > > C. H. GRANT,
> > > 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. N. Becker	District Physician and Surgeon
an Francisco	Dr. Clinton Horn	Medical Examiner, 65 Market St.	Sacramento	Dr. J. Roy Jones	Oculist and Aurist
akland	Dr. Harry H. Appeldorn	Division Surgeon	Roseville	Dr. L. E. Jones	District Physician and Surgeon
akland	Dr. F. H. Tebbe	District Physician and Surgeon	Roseville	Dr. J. F. McAnnally	Asst. Dist. Physician and Surgeo
akland	Dr. J. H. Milliken	District Physician and Surgeon	Roseville	Dr. C. Angella	Asst. Dist. Physician and Surgeo
akland	Dr. George Mainwaring	District Physician and Surgeon	Tracy	Dr. J. E. Longley	District Physician and Surgeon
akland	Dr. Edmund H. Padden	Oculist	Tracy	Dr. H. K. Wilson	Asst. Dist. Physician and Surgeo.
Oakland	Dr. Milton Shutes.	Oculist and Aurist	Stockton	Dr. H. T. Quinn	District Physician and Surgeon
East Oakland	Dr. R. James Walker	District Physician and Surgeon	Stockton	Dr E G Hermosillo	Asst. Dist. Physician and Surgeo
West Oakland	Dr. D. W. Stomberg	District Physician and Surgeon	Stockton	Dr. E. G. Hermosillo Dr. D. R. Powell	Oculist and Aurist
West Oakland	Dr. C. Jackemy	District Physician and Surgeon	Lodi	Dr. L. J. Peterson,	District Physician and Surgeon
North Oakland	Dr. N. P. Dunne	District Physician and Surgeon	Lodi	Dr. R. L. Owens	District Physician and Surgeon
ruitvale	Dr. J. W. Scamell	District Physician and Surgeon	Lockeford	Dr. N. P. Barbour	Emergency Surgeon
Fruitvale	Dr. L. E. Lacey	District Physician and Surgeon	Galt	Dr. V. E. Greer, Jr	Emergency Surgeon District Physician and Surgeon
Fruitvale	Dr. G. W. Dygert	District Physician and Surgeon	Ione	Dr. Hugo Childress	Emergency Surgeon
ruitvale	Dr. O. T. Leftwich	Oculist and Aurist	Elk Grove	Dr. Paul W. Frame	District Physician and Surgeon
Elmhurst	Dr. E. L. Armstrong	District Physician and Surgeon	Oakdale	Dr. E. E. Chouret	District Physician and Surgeon
Berkelev	Dr. J. R. Masterson	District Physician and Surgeon	Manteca	Dr. K. W. Hidy	Emergency Surgeon
Berkeley	Dr. A. M. McIntosh	District Physician and Surgeon	Manteca	Dr. Curtis M. Galt	Emergency Surgeon
Berkeley	Dr. A. J. Fleisher	District Physician and Surgeon	Modesto	Dr. Fred R. DeLappe	District Physician and Surgeon
Albany	Dr. Douglas Ream	District Physician and Surgeon	Modesto	Dr. H. R. Wilson	District Physician and Surgeon
Richmond	Dr. L. Fraser	District Physician and Surgeon	Modesto	Dr. J. A. Porter	Oculist and Aurist
Richmond	Dr. W. E. Cunningham	District Physician and Surgeon	Ceres.	Dr. F. K. Lord	Emergency Surgeon
Alameda	Dr. A. L. Guerra	District Physician and Surgeon	Turlock	Dr. M. C. Collins	District Physician and Surgeon
Mameda	Dr. D. D. Stafford	District Physician and Surgeon	Livingston	Dr. Charles L. Garvin	District Physician and Surgeon
San Leandro	Dr. G. T. Honaker	District Physician and Surgeon	Merced	Dr. E. R. Fountain.	District Physician and Surgeon
Hayward	Dr. F. A. Brown	District Physician and Surgeon	Merced	Dr. W. E. Fountain	Asst. Dist. Physician and Surgeon
Crockett	Dr. J. M. McCullough	District Physician and Surgeon	Chowchilla	Dr. Herbert O. Leff	Emergency Surgeon
Vallejo	Dr. Burton F. Jones	District Physician and Surgeon	Chowchilla	Dr. A. B. Bigler	Emergency Surgeon
	Dr. D. H. Murray	District Physician and Surgeon	Madera	Dr. R. R. Dearborn	District Physician and Surgeon
Napa	Dr. M. M. Booth	District Physician and Surgeon	Madera	Dr. K. W. Butler	Assoc. District Phys. and Surgeon
St. Helena	Dr. Frank McGreane	District Physician and Surgeon	Fresno	Dr. J. D. Morgan	District Physician and Surgeon
Santa Rosa	Dr. A. B. Herrick	District Physician and Surgeon	Fresno	Dr. C. A. James	Asst. Dist. Physician and Surgeon
	De F T Moell	District Physician and Surgeon	Fresno	Dr. O. B. Doyle	Asst. Dist. Physician and Surgeon
Santa Rosa	Dr. E. T. Noall Dr. G. L. Patterson	Oculist and Aurist	Fresno	Dr. L. G. Price	Oculist
Benicia	Dr. N. J. Crisp	District Physician and Surgeon	Fresno	Dr. Wayne A. Hunt	Aurist
Benicia	Dr. A. C. Atwood	Asst. Dist. Physician and Surgeon	Patterson	Dr. E. G. Allen	District Physician and Surgeon
Martinez	Dr. Edwin Merrithew	District Physician and Surgeon	Crows Landing	Dr. E. G. Allen	District Physician and Surgeon
	Dr. G. L. Coates	Asst. Dist. Physician and Surgeon	Newman	Dr. A. M. Roscoe	District Physician and Surgeon
Martinez	Dr. E. B. Todd	Emergency Surgeon	Newman	Dr. James E. Thompson	Asst. Dist. Physician and Surgeon
Concord			Gustine	Dr. A. W. Gustafson	Emergency Surgeon
Valnut Creek	Dr. M. C. Bolender	Emergency Surgeon	Los Banos	Dr. L. R. Hillver	District Physician and Surgeon
Danville	Dr. John Blemer	Emergency Surgeon	Kerman	Dr. J. C. Drake	District Physician and Surgeon
Pittsburg	Dr. Claude L. Kerns	Emergency Surgeon	Pleasanton	Dr. Harold J. Shanks	District Physician and Surgeon
Antioch	Dr. L. B. Weatherbee	District Physician and Surgeon	Livermore	Dr. Paul Dolan	District Physician and Surgeon
Byron	Dr. J. W. Hammond	District Physician and Surgeon	Centerville	Dr. G. S. Holeman	District Physician and Surgeon
uisun-Fairfield	Dr. Felix R. Rossi, Jr	District Physician and Surgeon		Dr. E. M. Grimmer	Emergency Surgeon
acaville	Dr. M. P. Stansbury	District Physician and Surgeon	Irvington	Dr. D. R. Threlfall	Emergency Surgeon District Physician and Surgeon
Esparto	Dr. W. D. Garcelon	Emergency Surgeon	San Jose	Dr. R. C. Sheretz	Asst. Dist. Physician and Surgeon
Dixon	Dr. O. P. Floreth	District Physician and Surgeon		Dr. John M. Hohl.	Asst. Dist. Physician and Surgeo
Davis	Dr. T. E. Cooper	Emergency Surgeon	San Jose		
Davis	Dr. Leo A. Cronan	Emergency Surgeon	San Jose	Dr. Phillip Jordan	Oculist and Aurist
acramento	Dr. A. M. Henderson	Division Surgeon			
acramento	Dr. W. W. Cress	Division Surgeon	NoteEmerger	ev Surgeons should only be su	mmoned for temporary treatment
acramento	Dr. A. F. Wallace	District Physician and Surgeon			ients cannot be sent to, or await
acramento	Dr. Manuel L. Azevedo	District Physician and Surgeon	arrival of, Division		The second of the sol of manne

HOSPITALS

GENERAL HO	SPITALSAN 1	FRANCISCO
EMERGENCY	HOSPITALSAG	CRAMENTO
EMERGENCY	HOSPITALWEST	OAKLAND

2					1	MART	NEZ S	SUBDI	VISIO	4					
				EA	STWA	RD									
					FI	RST CLA	ss						Timetable No. 241		8.
		102	244	246	28	56	52	224	204	262	Mile Post Location		June 2, 1946		ce fro
(Capacity of sidings in car lengths	Streamliner City of San Francisco	Statesman	Statesman	San Francisco Overland Limited	Passenger	San Joaquin Daylight	Senator	Passenger	Passenger	Mile				Distance from Oakland Pier
		Leave ★See Note	Leave Sunday and Holidays	Leave Daily Ex. Sunday and Holidays	Leave Daily	Leave Daily	Leave Daily	Leave Daily	Leave Daily	Leave Daily			STATIONS		
		PM 4.30	PM 2.00	PM 1.30	AM 11.30	AM 10.00	AM 8.00	AM 7.30	AM 4.30				SAN FRANCISCO	Oakland Ferry	
		4.50	2.20	1.50	11.50 AM	10.20	8.20	7.50	4.50				OAKLAND PIER	and	
	BKWIP	PM 5.00	PM 2.25	PM 2.00	PM 12.01	AM 10.35	AM 8.25	AM 7.56	AM 5.30		3.5		-R OAKLAND PIER		0.0
	BKWOITYP										(4.9)	11P4 \	O-R WEST OAKLAND)		(1.4)
yard	IP	s 5.07	s 2.34	s 2.09	s 12.09	s 10.44	s 8.33	s 8.02	s 5.42		5.5	11 3 1	DAKLAND (16th Street)		2.0
Oakland yard	IP										7.0	TI			3.5
o	P	s 5.16	s 2.43	s 2.20	s 12.19	s 10.54	s 8.42	s 8.10	s 5.56		9.2	_	BERKELEY 5.8		5.7
	Р	5.24	s 2.53	s 2.32	12.27	s 11.05	s 8.52	8.18	s 6.11		15.0	<u> </u> _ _	RICHMOND		11.5
	WP										16.6	ontro	SAN PABLO		13.1
	P										19.8	all —	SOBRANTE 3.2		16.3
W W	105 7 95 P	5.32	f 3.04	s 2.43	12.37	f11.17	9.03	8.28	s 6.26		23.0	E TO			19.5
	P		s 3.12	s 2.56	s 12.49	s11.33	s 9.14	8.36	s 6.44		28.9 29.0	to mat	CROCKETT 2.1	Doub	25.4
Port Costa yard	вкмотр		f 3.17	s 3.01		s 11.38			s 6.49		31.1	V R	PORT COSTA	} ल∥	27.5
Cost	M 116 P										33.1 34.7	∄ _	OZOL	Track	29.5
Port	WIP	5.48	s 3.28	s 3.11	12.59	s 11.45 AM	s 9.25 AM	8.44	s 7.10		34.7	T			31.1
	M 118 WP		3.36	3.19	1.07			8.51	7.18		38.0		BAHIA		37.4
E	83 Yard Limits 87 BKWOYP	6.04	s 3.53	s 3.40	1.18			9.02	s 7.45		48.9	T	D-R SUISUN-FAIRFIELD		48.3
_N	188 WYP		f 4.05	f 3.53	1.29			9.13	s 8.03		59.4	ysten _	10.5 ELMIRA		58.8
	74 WP		f 4.15	s 4.08	1.39			9.21	s 8.15		67.5	S	DIXON		66.9
	80 Yard Limits 81 KWIYP	6.24	s 4.28	s 4.26	1.49			s 9.32	s 8.38	6.00	75.6	TC	O-R DAVIS		75.0
_ N	196 P		4.34	4.33	1.55			9.37	8.44	6.07	80.4	Automatic	WEBSTER		79.8
Sacra- mento	IP IP										86.9	<u> </u>	SNRy Crossing		86.3
Sac	BKWOTIP	s 6.40 PM			s 2.10 PM			s 9.50 AM	s 9.00 AM	s 6.20 AM	89.0	T	2.1 D-R SACRAMENTO	J	88.4
		Arrive ★See Note	Arrive Sunday and Holidays	Arrive Daily Ex. Sunday and Holidays	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily			(88.4)		
		(1.40) 53.40	(2.25) 36.51	(2.50) 31.20	(2.09) 41.12	(1.10) 26.66	(1.00) 31.10	(1.54) 46.53	(3.30) 25.23	(0.20) 40.20		A	Time over District verage Speed per Hour.		

*No. 102 leave and arrive 2nd, 5th, 8th, 11th, 14th, 17th, 20th, 23rd, 26th and 29th of each month.

 ${\bf RULE}$ 5. Schedule time and train-order time at stations between Oakland Pier and Sacramento apply at station sign.

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

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 west-

Ward 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 DISCHARGE REVENUE PASSENGERS												
Train	At	Receive To (or Beyond)	Discharge From (or Beyond)	Frequency								
204	Pierce, Cygnus, Teal, Jacksnipe, Tolenas, Tremont	Any Station	Any Station	Daily								

Nos. 204 and 246 stop at Rodeo, Oleum and Selby. No. 204 reduce speed to 10 MPH at Giant on Sunday to dispatch papers.

No. 56 stop at Selby.

				MART	INEZ :	SUBDI	VISIO	V		· · · · · · · · · · · · · · · · · · ·			3
							WE	STWA	RD				
	/Di						Fil	RST CLA	5 S				
Mile Post Location	Timetable No. 241 June 2, 1946	Distance from Sacramento	25	21	23	19	57	101 Streamliner	247	11	13	16	27 San Francisco
M		Dis	Fast Mail	Pacific Limited	Challenger	Klamath	Owl	City of San Francisco	El Dorado	Cascade	Beaver	West Coast	Overland Limited
	STATIONS		Arrive Daily	Arrive Dally	Arrive Daily	Arrive Daily	Arrive Daily	Arrive ★See Note	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily
	SAN FRANCISCO GARIANO 3.5 OAKLAND PIER	92.0	AM 5.50	AM 7.50	AM 8.20	AM 8.20	AM 8.50	AM 9.15	AM 9.50	AM 11.20	AM 11.50		PM 2.20
	OAKLAND PIER	88.5	5.30	7.30	8.00	8.00	8.30	8.55	9.30	11.00	11.30		2.00
3.5	TO-R OAKLAND PIER	88.5	AM s 5.15	8 7.15	AM s 7.35	AM s 7.40	8 8.15	AM s 8.40	8 9.23	AM s 10.50	AM s 1 1 . 1 O	13.	PM s 1.50
(4.9)	(TO-R WEST OAKLAND)	(87.1)						-					
5.5	OAKLAND (16th Street) 1.5	86.5	s 5.05	s 7.05	s 7.27	s 7.33	s 8.07	s 8.34	s 9.16	s 10.42	s 11.02		s 1.42
7.0	TO SHELLMOUND 2.2	85.0											- 100
9.2	BERKELEY 5.8	82.8	i				s 7.54						s 1.28
15.0	RICHMOND 1.6	77.0	s 4.14	s 6.25	s 6.52	s 7.00	s 7.42	8.14	8.52	10.15	10.33		1.16
16.6	SAN PABLO	75.4		<u> </u>									
19.8	SOBRANTE 3.2 TO PINOLE	72.2	3.54	6.05	6.35	6.45	7.27	8.06	8.41	10.05	10.23		1.05
28.9	5.9 CROCKETT	62.1	s 3.45		8 6.25	8 6.35		8.00	0.41	9.57	10.25	<u> </u>	s 12.55
29.0	R PORT COSTA	61.0	5 3.43	3.55					s 8.30	9.57	10.15		
33.1	2.0 OZOL 1.6	59.0							- 0.00				
34.7	TO MARTINEZ	57.4	3.26	s 5.37	s 6.08	s 6.20	7.05 AM	7.50	s 8.24	9.47	s 10.05		12.42
31.7 38.0	6.4 BAHIA	51.0	3.17	5.23	5.55	6.08	AM		8.14	9.38	9.53		12.33
48.9	TO-R SUISUN-FAIRFIELD	40.1	3.06	f 5.10	5.43	f 5.56		7.34	s 8.03	9.28	9.43		12.23
59.4	ELMIRA	29.6	2.56	4.56	5.30	5.44			7.52	9.17	9.32		12.13
67.5	B.1 DIXON	21.5	2.48	4.44	5.21	f 5.35			7.44	9.09	9.24	· · · · · · · · · · · · · · · · · · ·	12.05 PM
75.6	8.1 TO-R DAVIS 4.8	13.4	2.40	f 4.32	5.10	5.25 AM		7.14	s 7.36	9.00	9.15 AM	AM s 10.40	11.57 AM
80.4	WEBSTER 6.5	8.6	2.35	4.22	5.01				7.30			10.32	11.51
86.9	SNRy Crossing	2.1								*			
89.0	TO-R SACRAMENTO	0.0	2.25 AM	4.10 AM	4.50 AM			7.00 AM	7.20 AM			10.20 AM	11.40 AM
	(88.5)		Leave Daily	Leave Daily	Leave Daily	Leave Daily	Leave Daily	Leave ★See Note	Leave Daily	Leave Daily	Leave Daily	Leave Daily	Leave Daily
	Time over District		(2.50) 31.23	(3.05) 28.70	(2.45) 32.18	(2.15) 33.38	(1.10) 26.66	(1.40) 53.10	(2.03) 43.17	(1.50) 40.96	(1.55) 39.18	(0.20) 40.20	(2.10) 40.84

 \star No. 101 leave and arrive 1st, 4th, 7th, 10th, 13th, 16th, 19th, 22nd, 25th, 28th and 31st of each month.

RULE 5. Schedule time and train-order time at stations between Oakland Pier and Sacramento apply at station sign.

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

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

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 FLAG STOPS TO RECEIVE OR DISCHARGE REVENUE PASSENGERS												
Train	At	Receive To (or Beyond)	Discharge From (or Beyond)	Frequency								
21 23 13	Any Station. Davis, Dixon, Suisun-Fairfield Crockett		Ogden Reno Portland	Daily Daily Daily								

No. 25 reduce speed to 15 MPH at Suisun-Fairfield to dispatch No. 23 reduce speed to 10 MPH at Davis to dispatch mail.

4	1				1	MARTI	NEZ S	SUBDI	VISIO	1					
				EA	STWA	RD							****		
					FI	RST CLA	ss						Timetable No. 241		0. 0.
	Capacity of sidings	20	24	22	18	58	248	14	12	15	Mile Post Location		June 2, 1946		Distance from Oakland Pier
	in car lengths	Klamath	Challenger	Pacific Limited	Oregonian	0wl	El Dorado	Beaver	Cascade	West Coast	, W				Dist Oak
		Leave Daily	Leave Daily	Leave Daily	Leave Daily	Leave Daily	Leave Daily	Leave Daily	Leave Daily	Leave Daily			STATIONS		
		PM 8.00	PM 8.00	PM 6.00	PM 6.00	PM 6.00	РМ 5.30	PM 5.00	PM 5.00				SAN FRANCISCO	Oakland Ferry	
		8.20	8.20	6.20	6.20	6.20	5.50	5.20	5.20				OAKLAND PIER	Ty dr.	
	BKWIP	РМ 8.45	PM 8.35	PM 6.45	РМ 6.40	PM 6.35	PM 5.57	PM 5.35	PM 5.30		3.5		TO-R OAKLAND PIER	\prod	0.0
	BKWOITYP					`					(4.9)	B.	(TO-R WEST OAKLAND)		(1.4)
yard	. IP	s 8.58	s 8.45	s 6.57	s 6.51	s 6.45	s 6.04	s 5.44	s 5.38		5.5	Ÿ	OAKLAND (16th Street)	.]	2.0
Oakland yard	IP										7.0		TO SHELLMOUND	.	3.5
Oak	· P	s 9.11	s 8.57	s 7.09	s 7.02	s 6.55	s 6.13	s 5.55	s 5.48		9.2		BERKELEY	.	5.7
	Р	s 9.24	s 9.10	s 7.23	s 7.15	s 7.07	6.21	6.03	5.56		15.0	10	5.8 RICHMOND		11.5
	WP WP										16.8	Contr	SAN PABLO	.	13.1
	P 2 105										19.8	rain	3.2 SOBRANTE 3.2	.	16.3
-5	W 95 P	9.35	9.21	7.35	7.27	7.18	6.31		6.06		23.0	tic T	TO PINOLE	.	19.5
밀	Р	s 9.50	s 9.35	s 7.51	s 7.40	s 7.30	s 6.40	6.21	6.14		28.9 29.0	utom	CROCKETT	Double	25.4
sta ya	вкиотр	9.53	9.38						6.17		31.1	Y	R PORT COSTA	le Track	27.5
Port Costa yard	M 116 P					2 7 40					33.1 34.7		0ZOL 1,6	. 2	29.5
ă	WIP	s 10.05	s 9.50	8.05	s 7.54	s 7.40 PM	s 6.50	s 6.32	6.23		31.7		TO MARTINEZ		31.1
	M 118 WP E 83 Yard Limits	10.13	9.58	8.13	8.02		6.58	6.40	6.31		38.0		BAHIA 10.9	.	37.4
	V 87 BKWOYP	10.29	10.14	8.27	8.15		s 7.10	6.51	6.42		48.9	tem	TO-R SUISUN-FAIRFIELD	.	48.3
_1	M 88 WYP	10.42	10.27	8.39	8.27		7.21	7.02	6.53		59.4	k Sys	10.5 ELMIRA 8.1		58.8
	M 74 WP E 80 Yard Limits	10.53	10.38	8.47	8.36		7.29	7.12	7.02 s 7.15	PM	67.5	Blo	DIXON 8.1	.	66.9
	V 81 KWIYP	s 1 1.05 PM	10.52	9.00	s 8.50 PM		s 7.40	s 7.25 PM	s 7.15 PM	6.30	75.6	matic	TO-R DAVIS	.	75.0
-	M 96 P		11.00	9.06			7.46			6.36	80.4	Auto	4.8 WEBSTER 6.7	.	79.8
Sacra-	E IP		s 1 1.15	s 9.20			s 8.00			s 6.50	86.9		SNRy Crossing	.	86.3
-	BKWOTIP		PM	PM			PM			PM	89.0	╟╌	TO-R SACRAMENTO	<u> </u>	88.4
		Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily			(88.4)		
		(2.20) 32.14	(2.40) 33.15	(2.35) 34.22	(2.10) 34.61	(1.05) 28.71	(2.03) 43.12	(1.50) 40.91	(1.45) 42.85	(0.20) 40.20			Time over District Average Speed per Hour		

Train

 ${\bf RULE~5.}~$ Schedule time and train-order time at stations between Oakland Pier and Sacramento apply at station sign.

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

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 west-

ward 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.

Portland.... Portland.... Ogden.... Sparks.... Woodland... Crockett.
Suisun-Fairfield.
Martinez, Suisun-Fairfield.
Suisun-Fairfield, Dixon, Davis.
Suisun-Fairfield, Elmira, Dixon

ADDITIONAL FLAG STOPS TO RECEIVE OR DISCHARGE REVENUE PASSENGERS

Receive To (or Beyond)

Discharge From (or Beyond)

Daily Daily Daily Daily Daily

	i,					MART	INEZ	SUBDI	VISIO:	N		The state of the s			5
									W	ESTWA	RD			AND THE RESERVE OF THE PARTY OF	
		Timetable No. 241		£ 0					FI	RST GLA	ss			***************************************	
Mile Post Location		June 2, 1946		Distance from Sacramento	229	243	17	55	223	51	241	261			
	_			īg	Governor	Governor	Oregonian	Passenger	Senator	San Joaquin Daylight	Sierra	Passenger			
		STATIONS			Arrive Daily Ex. Sunday and Holidays	Sunday and	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily			
0.0	_	SAN FRANCISCO	Oakland Ferry	92.0	PM 5.50	PM 5.50	PM 7.20	PM 7.20	PM 7.50	PM 8.30	PM 10.20				
3.5	_		a and	88.5	5.30	5.30	7.00	7.00	7.30	8.10	10.00				
(4.9)	ž.	TO-R OAKLAND PIER 1.4 TO-R WEST OAKLAND		88.5 (87.1)	s 5.20	PM s 5.20	PM s 6.40	PM s 6.50	PM s 7.22	PM s 7.58	PM s 9.52				
5.5	A.B.	OAKLAND (16th Street)		86.5	s 5.13	s 5.13	s 6.32	s 6.42	8 7.15	s 7.51	s 9.45				
7.0		TO SHELLMOUND		85.0							5 5.45		,	 	
9.2		BERKELEY 5.8		82.8	s 5.01	s 5.01	s 6.16	s 6.27	s 7.05	s 7.39	s 9.32		·		
15.0		RICHMOND 1.6		77.0	s 4.48	s 4.50	s 6.00	s 6.12	6.54	s 7.28	s 9.19			<u> </u>	
16.6	Contro	SAN PABLO 3.2		75.4										 	
19.8	ain C	SOBRANTE 3.2		72.2											
23.0	tic Ti	TO PINOLE 5.9		69.0	s 4.34	4.38	5.46	f 5.55	6.44	7.15	9.03				
28.9 29.0	tutomai	CROCKETT 2.1	Double	63.1	s 4.24		s 5.37	s 5.44		s 7.07	s 8.54				
31.1	Ą	R PORT COSTA 2.0 OZOL		61.0	s 4.14	f 4.25	5.29	s 5.34			s 8.44				
34.7		1.6 TO MARTINEZ	Track	59.0 57.4	- 4.00										
31.7		6.4 BAHIA		51.0	s 4.08	s 4.19 4.09	s 5.23	5.28 PM	s 6.27	6.55 PM					
48.9		10.9 TO-R SUISUN-FAIRFIELD		40.1	s 3.45		5.12 s 5.01		6.16		8.27				
59.4	stem	10.5 ELMIRA		29.6	f 3.29		4.48		5.56		8.17 8.05				
67.5	ock Sy	8.1 DIXON	-	21.5	<u> </u>	f 3.40	4.40		5.48		s 7.56			ļ	
75.6	ਕੁੱ { ਭੂ	TO-R DAVIS		13.4	s 3.09	s 3.31	4.30		5.40		s 7.46	PM			
80.4	toma	4.8 WEBSTER 6.5	╟	8.6	3.00	3.25	PM		5.35		7.40	10.12			
86.9	¥	SNRy Crossing	ı	2.1											
89.0		TO-R SACRAMENTO		0.0	2.50 PM	3.15 PM			5.25 PM		7.30 PM	10.00 PM			
		(88.5)			Leave Daily Ex. Sunday and Holidays	Leave	Leave Daily	Leave Daily	Leave Daily	Leave Daily	Leave Daily	Leave Daily			
		Time over District Average Speed per Hour			(2.30) 35.40	(2.05) 42.48	(2.10) 34.66	(1.22) 22.75	(1.57) 45.38	(1.03) 29.62	(2.22) 37.32	(0.20) 40.20			

RULE 5. Schedule time and train-order time at stations between Oakland Pier and Sacramento apply at station sign.

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

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.

Train	At	Receive To (or Beyond)	Discharge From (or Beyond)	Frequency
229	Cygnus	Any Station	Suisun	Daily Ex. Sun
229 17	Selby, Oleum, Rodeo	Any Station	Any Station	Daily Ex. Sun & Hol.
17 241	Teal		Any Station	Tues, & Sat.

No. 17 reduce speed to 10 MPH at Elmira on Sunday to receive mail.

6					N	1ARTI	NEZ S	UBDIV	/ISION					10	
-				EAS	STWAF	₹D									
	•		THI	RD CLAS	3 S		SECOND	CLASS	FIRST	CLASS			Timetable No. 241		E 5
	Capacity of sidings in car lengths			476 Freight	410 Freight	464 Freight		442 с. с. м.		26 Passenger	Mile Post Location		June 2, 1946		Distance from Oakland Pier
	•			Leave Daily	Leave Daily	Leave Daily Ex. Sunday		Leave Daily Ex. Sunday		Leave Daily			STATIONS		
-						Ex. Sumaj		Ea. Dusting		PM			SAN FRANCISCO	02	
_										9.00			OAKLAND PIER	Oakland	
_										PM 9.20	3.5	cT(-R OAKLANDIPIER		0.0
	BKWIP	 		PM_	PM	AM 9.00		PM 10.00		9.20			TO-R WEST OAKLAND)		(1.4)
	BKWOITYP	<u> </u>		11.45	10.15	9.00		10.00		s 9.31	5.5	¥\	0.6 DAKLAND (16th Street)		2.0
Oakland yard	IP_									8 9.31	7.0		1.5		3.5
klanc	IP									s 9.43	9.2	-	BERKELEY		5.7
ဝိ	P		-							s 9.43 s 9.55	15.0	-	RICHMOND		11.5
	P						 			s 9.00	16.6		SAN PABLO		13.1
-	WP.						<u> </u>				19.8	Control	SOBRANTE		16.3
 	P E 105				, 		 	<u> </u>		10.06	23.0	ia To	3.2		19.5
-	E 105 W 95 P				i———]					s 10.23	28.9 29.0	natic	CROCKETT	ğ	25.4
٦	P				i -	4.00 PM	 			f 10.27	31.1	Automatic Tr	2.1	Double '	27.5
ta yar	BKWOTP				I	PM			·-	110.21	33.1	-	02.0 OZOL	Track	29.5
Port Costa yard	M 116 P			AM 1.30	11.45 PM			11.15		s 10.43	34.7 31.7		1.6		31.1
Pol	WIP			1.30	PM			11.12		10.51	38.0	1 }─	6.3 BAHIA		37.4
-	M 118 WP E 83 Yard Limits W 87 BKWOYP						-	PM 11.55		s 11.09	48.9		O-R SUISUN-FAIRFIELD		48.3
				2.15				11.55		11.22	59.4	System	10.5 ELMIRA		58.8
	M 88 WYP				<u> </u>					11.34	67.5	Block Sy	8.1 DIXON		66.9
	M 74 WP E 80 Yard Limits				 		 	AM 12.35		s 11.50	75.6		O-R DAVIS		75.0
	W 81 KWIYP	-		3.30			 	12.35		PM 11.56	80.4	utomatic —	WEBSTER		79.8
! —	M 96 P	-					-			11.00	86.9	W -	6.5 SNRy Crossing		86.3
Sacra	BKMOTIB	-		4.30 AM		 	1	1,00		s 12.10	89.0	 	O-R SACRAMENTO		88.4
-	BKWOTIP			Arrive Daily	Arrive Daily	Arrive Daily Ex. Sunday	y	Arrive Daily Ex. Monday		Arrive Daily			(88.4)		
				(4.45) 18.71	(1.30) 20.66	(7.00) 3.78		(3.00)		(2.50) 31.20			Time over District Average Speed per Hour		

RULE 5. Schedule time and train-order time at stations between Oakland Pier and Sacramento apply at station sign.

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

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 DISCHARGE REVENUE PASSENGERS												
Train	At	Receive To (or Beyond)	Discharge From (or Beyond)	Frequency								
26 26	Elmira, Dixon	Roseville	Any Station Berkeley	Daily Sat. & Sun.								

]	MART)	NEZ S	SUBDI	VISIOI	7					7
							WE	STWA	RD				
	Timetable No. 241	_					TH	IIRD CLA	ss				
Mile Post Location	June 2, 1946	nce fron	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	88.5											
3.5	TO-R OAKLAND PIER	88.5											
(4.9)	(TO-R WEST OAKLAND)	(87.1)	PM 2.00	AM 1.00									
5.5	OAKLAND (16th Street)	86.5											
7.0	TO SHELLMOUND	85.0											
9.2	BERKELEY 5.8	82.8						· · · · · · · · · · · · · · · · · · ·					
15.0	RICHMOND 1.6 SAN PABLO	77.0											
16.6	SAN PABLO 3.2 SOBRANTE	75.4 72.2						_					
23.0	TO PINOLE	69.0						######################################					
1 1	5.9	63.1							<u> </u>				
28.9 29.0 31.1	R PORT COSTA	61.0	7.00 AM					· · · · · · · · · · · · · · · · · · ·					
33.1		59.0	AM									-	
34.7	TO MARTINEZ	57.4		10.35 PM					<u> </u>				
31.7 38.0	BAHIA	51.0		PIVI				· · · · · · · · · · · · · · · · · · ·	<u> </u>				
48.9	TO-R SUISUN-FAIRFIELD 10.5	40.1		10.00									
59.4	ELMIRA 8.1	29.6											
67.5	DIXON 8.1	21.5											-
75.6	TO-R DAVIS	13.4		8.30									
80.4	WEBSTER 6.5	8.6				,							
86.9	2.1	2.1				1 -							
89.0	TO-R SACRAMENTO	0.0		8.00 PM									
	(88.5)		Leave Daily Ex. Sunday	Leave Daily	-					-			
	Time over District	:	(7.00) 3.78	(5.00) 17.50						,			

RULE 5. Schedule time and train-order time at stations between Oakland Pier and Sacramento apply at station sign.

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

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.

	Ville Post	Capac-
Emeryville		,
Stockyards Stockyards States (Spur) Stege Stege States (Spur) Glant Stoge Stog	6.6 6.7.4 7.7.8 9.13.1 1.3.1 1	P P P P P P P P P P P P P P P P P P P

8 MARTINEZ SUBDIVISION								
	EASTWARD							
	THIRD CLASS	FIRST	CLASS			ti g	Timetable No. 241	
Capacity of sidings in car lengths	410 Freight		58 0wl	56 Passenger	52 San Joaquin Daylight	Mile Post Location	Timetable No. 241 June 2, 1946 June 2, 1946	
	Leave Daily		Leave Daily	Leave Daily			STATIONS	
Port Costa	PM 11.45		PM 7.43	AM 11.50	AM 9.27	34.7	TO MARTINEZ 1.3 Delta 0.0	
Port ya	11.50 PM		7.46	11.53 AM	9.30	36.0	MOCOCO J 1.3	
64 YP N 82 Yard Limits	11.55 AM			811.57 PM	0.36	38.1 41.3	TO-R AVON 3.4	
S 116 WYP	12.05		7.53	f12.02 12.07	9.36	44.8	3.5 McAVOY 10.1	
	12.15		s 8.01		s 9.43	48.9	TO-R PITTSBURG 14.2	
Burdania 86 BWP 55 YP	12.52		8.07	12.20	9.47	50.8	LOS MEDANOS 16.1	
64 P	1.00		8.11	s 12.30		53.5	TO ANTIOCH 18.8	
78 P	1.10			12.35 s 12.45	9.58	57.3 61.7	NEROLY 22.6	
52 WP 82 P	1.20			s 12.45	9.56	66.9	TO BYRON 32.2	
82 P 46 P	1.42		8.33	1.00		71.6	### ### ### ### ######################	
53 P	1.50		8.38	1.05		75.7	II 3.4 R	
42 P	1.57		8.43 s 8.50 PM	1.09 s 1.15	10.14 s 10.20	79.1 82.2	JANNEY 44.4 3.1 TO-R TRACY 47.5	
Tracy yard BKWOTYP	2.10 AM Arrive Daily		PM Arrive Daily			02.4	(47.5)	
	(2.25) 19.65		(1.07) 42.53	(1.25) 33.53	(0.53) 53.77		Time over District Average 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 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. North siding is first track north of main track (on bay side), and south siding is first track south of main track (on station side).

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- WARD	Timetable No. 241	WEST- WARD
Capacity of sidings in car lengths	Mile Post Location	June 2, 1946	Distance from Radum
	ĘŠ	San Ramon Branch	ist w
		STATIONS	
64 YP	38.1	TO-R AVON	29.7
WP	42.5	TO CONCORD	25.3
	45.8	LAS JUNTAS	22.0
Р	48.2	TO WALNUT CREEK	19.6
	54.8	6.6 DANVILLE	13.0
27	57.7	SAN RAMON	10.1
\$ T	63.6	DOUGHERTY	4.2
Yard Limits	66.4	ASCO	1.4
IYP	67.8	TO RADUM	0.0
W.		(29.7)	

ADDITIONAL STATIONS						
NAME	Mile Post	Capac- ity				
San Ramon Branch Galindo(Spur) Hookston Alamo	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. North siding is first track north of main track (on bay side), and south siding is first track south of main track (on station side).

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.

AD	DITIONAL FLAG STOPS TO RE	CEIVE OR DISCHAR	GE REVENUE PA	SSENGERS
Train	At	Receive To (or Beyond)	Discharge From (or Beyond)	Frequency
57	Brentwood	Berkeley	Fresno	Daily

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

10				M.								
EAST	WARD						WEST	WAR	D			
	SECON	D CLASS		Timeta	ble No. 241		THIRD	CLAS	s			
.Capacity of sidings	438	440	Mile Post Location	Jun	ne 2, 1946	Distance from Calistoga	439	441				
in car lengths	Freight	Freight	L MI	Nap	oa Branch	Dista	Freight	Freigh	t			
	Leave Daily	Leave Daily Ex. Sunday		ST	ATIONS		Arrive Daily	Arrive D Ex. Sund	aily lay			
Yard Limits 101 BKWOYP	AM 9.30	AM 1.00	50.5	TO-R SUISUN	I-FAIRFIELD	47.8	РМ 1.50	PM 5.4				
39 WP	9.45	1.15	44.8		5.7 RDELIA	42.1	1.35	5.3	1	ADDITIONAL STA	TIONS	
23 P Yard Limits	9.55 10.10	1.25	41.0	CR	3.8 RESTON	38.3	1.25	5.2			Mile	Capac-
WYP Yard Limits	AM	1.45	37.2	TO-R NA	PA JCT. 8.3	34.5	1.10 PM	5.0		NAME Napa Branch	Post	ity
50 W		2.15 AM	45.5	то і	2.3	26.2		4.3 PM		Subeet(Spur)	47.9 46.2	9 26
30			47.8		JNION 6.2	23.9			_	Rocktram. Imola. (Spur) Oak Knoll (Spur) Oakville Rutherford Zinfandel (Spur)	42.8 44.2 50.2	21 3
Yard Limits		<u> </u>	54.0	TO YOU	INTVILLE 17.7	17.7		<u></u>	_	Oakville(Spur) Rutherford	57.5 59.4	3 26 2 0 3
21 KT	Arrive Daily	Arrive Daily Ex. Sunday	71.7	1	(47.8)	0.0	Leave Daily	Leave Da	ily	Zinfandel (Spur) Thomann St. Helena	61.2 62.1 63.6	3 40 22 6
	(0.40)	(1.15)			ver District		(0.40)	Ex. Sund (1.15)		Krug(Spur)	1 <i>61</i> K	6
	19.80	17.28			speed per Hour		19.80	17.28		Bale (Spur) Larkmead (Spur) Maple	65.3 67.5 68.3 69.0	5W 12 9W
EASTWAR	 D					V	VESTW	ARD		Schellville Branch Buchli	42.2	7
EASTWAR		SECOND CLASS		Timetal	ble No. 241		VESTW.	ARD		Buchli(Spur) Winters Branch Hartley(Spur)	68.5	7 10 6
EASTWAR Capacity of sidings			į		ble No. 241 e 2, 1946		THIRD GLASS	ARD		Buchli. Ramal(Spur) Winters Branch Hartley(Spur) Allendale Norton	68.5 70.3 80.3	10 6 i3
		CLASS	į	June			THIRD	ARD		Buchli. Ramal(Spur) Winters Branch Hartley(Spur) Allendale.	68.5 70.3	6
Capacity of sidings		438	Mile Post Location	June Schelly	e 2, 1946	Distance from Schellville	THIRD GLASS 439	ARD		Buchli, Ramal(Spur) Winters Branch Hartley(Spur) Allendale Norton Arroz(Spur)	68.5 70.3 80.3 82.8 83.6	10 6 13 3 7
Capacity of sidings		CLASS 438 Freight	į	June Schellv STA	e 2, 1946 ville Branch		THIRD GLASS 439 Freight Arrive Daily PM	ARD		Buchli, Ramal(Spur) Winters Branch Hartley(Spur) Allendale Norton Arroz(Spur)	68.5 70.3 80.3 82.8 83.6	10 6 13 3 7
Capacity of sidings in car lengths		438 Freight Leave Daily	Mile Post Location	June Schelly STA	e 2, 1946 ville Branch ATIONS PA JCT. 0.8 MBARD	Distance from Schellville	THIRD 439 Freight Arrive Daily	ARD		Buchli, Ramal(Spur) Winters Branch Hartley(Spur) Allendale Norton Arroz(Spur)	68.5 70.3 80.3 82.8 83.6	10 6 13 3 7
Capacity of sidings in car lengths Yard Limits 35 WYP 68		### CLASS ### 438 Freight Leave Daily AM	Mile Post	June Schelle STA TO-R NAI	e 2, 1946 ville Branch ATIONS PA JCT. 0.8 MBARD 2.7 RAZOS	Distance from Schellville	THIRD GLASS 439 Freight Arrive Daily PM 12.50 12.45	ARD		Buchli, Ramal(Spur) Winters Branch Hartley(Spur) Allendale Norton Arroz(Spur)	68.5 70.3 80.3 82.8 83.6	10 6 13 3 7
Capacity of sidings in car lengths Yard Limits 35 WYP 68		### CLASS ### 438 Freight	Wije Post 37.2 38.0 40.7	June Schelly STA TO-R NAI LOI BF	e 2, 1946 ville Branch ATIONS PA JCT. 0.8 0.8 0.8 0.8 0.8 0.8	Distance from Schellville	THIRD GLASS 439 Freight Arrive Daily PM 12.50	ARD		Buchli, Ramal(Spur) Winters Branch Hartley(Spur) Allendale Norton Arroz(Spur)	68.5 70.3 80.3 82.8 83.6	10 6 13 3 7
Capacity of sidings in car lengths Yard Limits 35 WYP 68 P Yard Limits		### CLASS ### 438 Freight	Wije Post 37.2 38.0 40.7	June Schelly STA TO-R NAI LOI BF	e 2, 1946 ville Branch ATIONS PA JCT. 0.8 mBARD 2.7 RAZOS 7.8	Distance from Schellyille 8.7	THIRD GLASS 439 Freight Arrive Daily PM 12.50 12.45	ARD		Buchli, Ramal(Spur) Winters Branch Hartley(Spur) Allendale Norton Arroz(Spur)	68.5 70.3 80.3 82.8 83.6	10 6 13 3 7
Capacity of sidings in car lengths Yard Limits 35 WYP 68 P Yard Limits		### CLASS ### 438 Freight	Wije Post 37.2 38.0 40.7	June Schelly STA TO-R NAI LOI BF TO-R SCHE	e 2, 1946 ville Branch ATIONS PA JCT. 0.8 MBARD 2.7 RAZOS 7.8	Distance from Schellyille 8.7	THIRD GLASS 439 Freight Arrive Daily PM 12.50 12.45	ARD		Buchli, Ramal(Spur) Winters Branch Hartley(Spur) Allendale Norton Arroz(Spur)	68.5 70.3 80.3 82.8 83.6	10 6 13 3 7
Capacity of sidings in car lengths Yard Limits 35 WYP 68 P Yard Limits	EAST-	### Company of the content of the co	37.2 38.0 40.7 48.5	June Schelly STA TO-R NAI LOI BF TO-R SCHE	e 2, 1946 ville Branch ATIONS PA JCT. 0.8 MBARD 2.7 RAZOS 7.8 LLVILLE (11.3) ver District peed per Hour	Distance from Schellyille 8.7	THIRD GLASS 439 Freight Arrive Daily PM 12.50 12.45 12.10 FM Leave Daily	ARD	EAST-	Buchli, Ramal(Spur) Winters Branch Hartley(Spur) Allendale Norton Arroz(Spur)	68. 5 70. 3 80. 3 82. 8 83. 6 86. 8	10 6 6 i3 3 7 31
Capacity of sidings in car lengths Yard Limits 35 WYP 68 P Yard Limits Y	EAST- WARD	### CLASS ### 438 Freight	37.2 38.0 40.7 48.5	TO-R SCHE	e 2, 1946 ville Branch ATIONS PA JCT. 0.8 MBARD 2.7 RAZOS 7.8 LLVILLE (11.3) ver District peed per Hour	Distance from Schellyille 8.7	THIRD GLASS 439 Freight Arrive Daily PM 12.50 12.45 12.10 PM Leave Daily (0.40) 17.25			Buchli Ramal (Spur) Winters Branch Hartley (Spur) Allendale Norton (Spur) Arroz (Spur) Citrona (Spur) Madison (Spur)	68.5 70.3 80.3 82.6 83.6 86.8	10 6 6 i3 3 77 31 W
Capacity of sidings in car lengths Yard Limits 35 WYP 68 P Yard Limits	EAST- WARD	## Company of Company	37.2 38.0 40.7 48.5	TO-R SCHE TO-R SCHE TO-R SCHE Average S No. 241	e 2, 1946 ville Branch ATIONS PA JCT. 0.8 MBARD 2.7 RAZOS 7.8 LLVILLE (11.3) ver District peed per Hour	Distance from Schellyille 8.7	THIRD GLASS 439 Freight Arrive Daily PM 12.50 12.45 12.10 FM Leave Daily	idings	EAST- WARD	Buchli. Ramal(Spur) Winters Branch Hartley(Spur) Allendale	68.5 70.3 80.3 82.8 83.6 86.8	10 6 6 i3 3 77 31 W
Capacity of sidings in car lengths Yard Limits 35 WYP 68 P Yard Limits Y Capacity of sidings	EAST-	## Company of Company	37.2 38.0 40.7 48.5 eetable	June Schelly STA TO-R NAI LOI BF TO-R SCHE (Average S No. 241 1946 ranch	e 2, 1946 ville Branch ATIONS PA JCT. 0.8 MBARD 2.7 RAZOS 7.8 LLVILLE (11.3) ver District peed per Hour	Distance from Schellyille 8.7	THIRD GLASS 439 Freight Arrive Daily 12.50 12.45 12.10 Leave Daily (0.40) 17.25	idings	EAST-	Buchli. Ramal	68.5 70.3 80.3 82.8 83.6 86.8	10 6 6 i3 3 77 31 W
Capacity of sidings in car lengths Yard Limits 35 WYP 68 P Yard Limits Y Capacity of sidings	EAST- WARD	## Company of Company	37.2 38.0 40.7 48.5 eetable June 2, Vallejo B	June Schelly STA TO-R NAI LOI BE TO-R SCHE TO-R SCHE No. 241 1946 ranch	e 2, 1946 ville Branch ATIONS PA JCT. 0.8 MBARD 2.7 RAZOS 7.8 LLVILLE (11.3) ver District peed per Hour	Distance from Schellyille 8.7	THIRD GLASS 439 Freight Arrive Daily 12.50 12.45 12.10 Leave Daily (0.40) 17.25	idings	Mile Post AST-Location East Described Market Described Ma	Buchli Ramal (Spur) Winters Branch Hartley (Spur) Allendale Spur) Arroz (Spur) Arr	68.5 70.3 80.3 82.8 83.6 86.8	10 6 i3 3 7 31 WW
Capacity of sidings in car lengths Yard Limits 35 WYP 68 P Yard Limits Y Capacity of sidings in car lengths Yard Limits 4 Yard Limits 5 WYP 21	Mile Post August	### CLASS 438 Freight	37.2 38.0 40.7 48.5 Letable June 2, Vallejo B STATIO NAPA J 28.6 FLOSD	June Schelly STA TO-R NAI LOI BF TO-R SCHE (Average S No. 241 1946 ranch DNS CT.	e 2, 1946 ville Branch ATIONS PA JCT. 0.8 MBARD 2.7 RAZOS 7.8 LLVILLE (11.3) ver District	Distance from Schellyille 8.7	THIRD GLASS 439 Freight Arrive Daily PM 12.50 12.45 12.10 Leave Daily (0.40) 17.25 Capacity of sin car lenger	idings ths	EAST- WARD	Buchli. Ramal	68.570.380.382.883.686.8	10 6 6 i3 3 77 31 W
Capacity of sidings in car lengths Yard Limits 35 WYP 68 P Yard Limits Y Capacity of sidings in car lengths	EAST-WINE Lost Under the Lost WARD Total Under the Lost WARD 37.2 34.4	### CLASS 438 Freight	37.2 38.0 40.7 48.5 Letable June 2, Vallejo B STATIC NAPA J 2.8	June Schelly STA TO-R NAI LOI BF TO-R SCHE (Average S No. 241 1946 ranch DNS CT.	e 2, 1946 ville Branch ATIONS PA JCT. 0.8 MBARD 2.7 RAZOS 7.8 LLVILLE (11.3) ver District peed per Hour WEST- WARD uojajaya 7.1	Distance from Schellyille 8.7	THIRD GLASS 439 Freight Arrive Daily PM 12.50 12.45 12.10 Leave Daily (0.40) 17.25 Capacity of sin car lenger	idings ths	EAST-WIfe Post Wife Post Oceation 59.4.6	Buchli. Ramal	68.570.380.382.882.8686.8	10 6 i3 3 77 31 WW W

WEST-WARD

Distance from Union

2.0

0.0

EAST- Y

Mile Post Location

48.8 50.8 47.8

Capacity of sidings in car lengths

30

Timetable No. 241
June 2, 1946

Union Branch
STATIONS

WEST NAPA

UNION

(2.0)

20	LOS BANOS SUBDIVISION 11									
			WESTWARD							
	Timetable No. 241	rom	FII	RST CLA	\ss	TH	IIRD CLA	ss		
	June 2, 1946	Distance from Fresno	57			403	405	401		
		Dis	Owl			Freight	Freight	Freight		
	STATIONS		Arrive Daily			Arrive Daily	Arrive Daily	Arrive Daily		
	TO-R TRACY	126.2	AM s 5.50			AM 7.00	PM 3.00	PM 11.25		
	LYOTH	123.5								
	YARMOUTH	120.5	5.35			6.43	2.40	11.05		
.	VERNALIS	115.8	5.28			6.35	2.30	10.56		
	3.8 HALLY	112.0								
	TO WESTLEY	108.0	5.18			6.23	2.17	10.39		
	TO PATTERSON	101.0	f 5.09			6.12	2.05	10.27		
	CROWS LANDING	95.2	5.02			6.03	1.55	10.15		
	4.1 TIMBA	91.1	·							
	TO NEWMAN	88.9	f 4.54			5.53	1.45	9.50		
stem	TO GUSTINE	84.9	f 4.48			5.47	1.39	9.33		
Automatic Block System	INGOMAR	79.1	4.41			5.38	1.30	9.15		
# {	VOLTA	72.8	4.33			5.28	1.20	9.06		
mati	TO-R LOS BANOS	68.0	s 4.26			5.20	1.12	8.59		
Auto	7.9 Agatha	60.1	4.12			4.57	12.50	8.45		
	TO DOS PALOS	55.4	f 4.06			4.50	12.43	8.38		
	0XALIS	48.6	3.58			4.39	12.33	8.29		
	TO FIREBAUGH	42.2	f 3.51			4.24	12.23	8.19		
	CROMIR	37.6	3.46			4.05	12.15	8.12		
	TO MENDOTA	33.9	f 3.41	-		3.59	12.09 FM	8.06		
	7.4 R INGLE	26.5	3.32			3.48	11.58 AM	7.55		
	2.6 Jamesan	23.9	3.29			3.44	11.54	7.51		
	TO-R KERMAN	15.4	f 3.19			3.30 MA	11.40 AM	7.40 PM		
	3.7 FLOYD	11.7	3.13							
	TO-R FRESNO	0.0	2.55 AM							
	(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)	93.5 94.9 104.8 116.0 126.9 138.3 141.6 169.0 172.8 198.5 202.5	34 F 41 F 9 25 5 F 20 F				

EASTWARD

432

Freight

Leave Daily

PM 9.10

9.19

9.27

9.36

9.48

10.01

10.15

10.25

10.33

10.43

10.53

11.15

11.30

11.39

AM 12.02

12.10

12.17

12.32

12.55 AM

Arrive Daily

Capacity of sidings in car lengths

вкмотур

52

52

43

103

52

50

47

50

67

78

101

40

103

43

89

39

44

81

53

IP

P

Р

P

P

P

P

WP

P

P

P

P

P

Р

 ${\bf P}$

P

Р

Yard Limits WYP

Fresno yard BKWOTYP

WP

Yard Limits BKWOYP

WP

SECOND CLASS

430

Freight

Leave Daily

5.25

5.35

<u>5.5</u>0

6.23

6.35

6.45

6.55

7.02

7.12

7.22

7.32

7.47

7.56

8.09

8.20

8.28

8.35

8.50

Arrive Daily

Mile Post Location

82.2

84.9

87.9

92.6

96.4

100.4

107.4

113.2

117.3

119.5

123.5

129.3

135.6

140.4

148.3

153.0

159.8

166.2

170.8

174.5

181.9

184.5

193.0

196.7

208.4

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

58

Leave Daily

8.58

9.05

9.09

9.15

9.33

9.40

9.50

9.57

10.05

10.12

10.23

10.34

s 10.40

10.49

10.58

11.04

11.10

11.19

11.23

11.33

РМ 11.39

s 12.10

Arrive Daily

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	Fresno Tracy	Martinez Fresno	Daily Daily				

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. will be governed by interlocking signals between Biola Jct. and west switch No. 1 drill track Fresno yard, and will use No. 1 drill track to enter or leave Fresno yard.

LOS BANOS SUBDIVISION										
E	ASTWARD					WESTWARD				
	SECOND (LASS	#2 e	Timetable No. 241	rom			THIRD	CLASS	
Capacity of sidings in car lengths	430 Freight	432 Freight	Mile Post Location	June 2, 1946	Distance from Fresno Yard	403 Freight	405 Freight	401 Freight		
	Leave Da	ly Leave Daily		STATIONS		Arrive Daily	Arrive Daily	Arrive Daily		
N 111 Yard Limits S 81 WYP	AM 9.1	AM 5 12.55	193.0	TO-R KERMAN	18.2	AM 3.30	AM 11.40	PM 7.40		
P	9.3			TO BIOLA	10.7	3.17	11.27	7.25		
Fresno Hard Ard IP	9.4	5 1.25	208.6	BIOLA JCT.	2.6	3.00	11.10	7.08		
BKWP	9.5 AM	5 1.35 AM	211.2	TO-R FRESNO YARD	0.0	2.50 AM	11.00 AM	7.00 PM		
	Arrive Da		1	(18.2)		Leave Daily	Leave Daily	Leave Daily		
	(0.40) 27.30	(0.40) 27.30		Time over District		(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. will be governed by interlocking signals between Biola Jct. and west switch No. 1 drill track Fresno yard, and will use No. 1 drill track to enter or leave Fresno yard.

ADDITIONAL STAT	TIONS					
NAME Mile Capac						
Biola line West Acres	206.0	4				

			LATHE	OP SUBDIV	VISION			13
	EAST- WARD	Timetable No. 241	WEST- WARD			EAST- WARD	Timetable No. 241	WEST WARI
Capacity of sidings in car lengths	Mile Post Location	June 2, 1946	Distance from Kentucky House		Capacity of sidings	Post Hon	June 2, 1946	Distance from Woodbridge
an cut longtha	Mile	Lodi Branch	ılstan		in car lengths	Mile Post Location	Lodi Branch	tanc
		STATIONS	_				STATIONS	N N
Yard Limits BKWOYP	103.3	TO-R LODI	39.3	Xd.Lmts.I	вкиочр	103.3	TO-R LODI	2.5
11	105.2	1.9 ROMA	37.4	<u>Yd.1</u>		105.8	WOODBRIDGE	0.0
33 P	110.7	LOCKEFORD	31.9				(2.5)	
Yard Limits 7 P	130.2	TO VALLEY SPRING	12.4					
Yard Limits YWP	142.6	KENTUCKY HOUSE	0.0					
		(39.3)		=		 		,
	EAST-	,	WEST-			EAST- V WARD	Timetable No. 241	WEST WARE
	WARD	Timetable No. 241	WARD		Capacity of sidings in car lengths	ost ion	June 2, 1946	Distance from Montpellier
Capacity of sidings in car lengths	Post Hon	ј ипе 2, 1946	Distance from Ione			Mile Post Location	Oakdale Branch	stance
-	Mile Post Location	Ione Branch	stanc	_			STATIONS	ig M
		STATIONS	Ä		Stockton yard BKWOITYP	90.9	TO-R STOCKTON	48.9
Yard Limits 175 WYP	111.7	TO-R GALT	27.1		28 Y P	103.8	PETERS	36.0
	116.7	CCTCo Crossing	22.1		Yard Limits WP	122.4	TO-R OAKDALE	17.4
Yard Limits WTP	138.8	TO-R 22.1 IONE	† 0.0		34 P	139.8	17.4 MONTPELLIER	0.0

ADDITIONAL STA	TIONS	
NAME	Mile Post	Capac- ity
Lodi Branch Victor Clements Wallace Helisma Norval(Spur) 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
Oakdale Branch Orford. (Spur) Holden. (Spur) Farmington. Gotri. (Spur) Valley Home. Adela. (Spur) Claribel. Waterford. Hickman.	$108.2 \\ 111.5 \\ 116.7$	5 13 P 15 P 15 P 18 46 50 P 42 P
Ione Branch Clay Carbondale Lignite (Spur) Edwin (Spur) Clarksona (Spur) Dagon (Spur)	122.0 132.3 133.0 134.8 135.2 137.7	38 P 5 27 13 14

14					LATH	ROP S	UBDIV	/ISION						
	EASTWARD THIRD GLASS SECOND FIRST CLASS													
	TH	IIRD CLA	SS	CLASS		FII	RST GLA	55		拨ㅁ		Timetable No. 241		[rom
Capacity of sidings in car lengths	421 Freight	425 Freight	423 Freight	402 B. M.	261 Passenger	53 Sacramento Daylight	56 Passenger	52 San Joaquin Daylight	59 West Coast	Mile Post Location		June 2, 1946		Distance from Tracy
	Leave Daily	Leave Daily	Leave Daily	Leave Daily Ex. Monday	Leave Daily	Leave Daily	Leave Daily	Leave Daily	Leave Daily			STATIONS		
Tracy yard BKWOTYP				AM 12.01	PM 6.15	PM 5.00	PM 1.25	AM 10.24		70.8		TO-R TRACY		0.0
IP										78.3		7.5 San Joaquin River Drawb'ge		7.5
Yard Limits WY W79 Fresno 83 IP	PM 11.25	PM 2.45	AM 7.20	12.20 AM	s 6.32	5:20 5:50	s 1.41 PM	10.38 AM	AM 6.35	81.5		R LATHROP 6.2	Double	10.7
I Jard									0.647	87.7		TSRy Crossing		16.9
BKWOITYP IP	PM 11.50	3.10	7.40		s 7.00	s 6.05			s 6.47 7.00	90.9	4	TO-R STOCKTON	Track	20.1
IP IP										92.3		STOCKTON TOWER No. 4	1	21.5
w										93.9		1.6 AKERS 1.1		23.1
P										95.0		End of Double Track 1.6 CASTLE	الر	24.2
125 P					<u>f</u>					96.6	System	CASTLE 3.6 ARMSTRONG		25.8
125 P Yard Limits					f					100.2	Block 8	3.1		29.4
129 BKWOYP					s 7.30	s 6.23			s 7.20	103.3		LODI 2.9 ACAMPO	Cent	32.5
125 P	ļ				s					106.2	Automatic	3.3 FOREST LAKE	Centralized	35.4 38.7
126 P Yard Limits					f				25			GALT	1 Traffic	40.9
175 WYP			<u></u>		s 7.55	6.35			s 7.35	111.7		3.8 NEED	fie C	44.7
125 P					f					119.5		4.0 McCONNELL	Control	48.7
128 P					s 8.15				7.52	122.9		ELK GROVE		52.1
135 P					6 0.13				7.52	125.7		MEADOWS		54.9
137 WP					f 8.35				8.01	129.0	11	3.3 FLORIN		58.2
					5 0.00					132.0		3.0 POLK		61.2
Table Min (138 Wib)	1.05 AM	4.30 PM	8.55 AM		f 8.45 PM	7.10 PM			8.10 AM	133.2		BRIGHTON		62.4
		See	Sacramen	Time to Division	at Sacram timetable	ento and I for train n	Elvas for in novements	nformation between S	only. Sacramento	and Br	ighto	on.		

		200			•						
					PM 8.50	РМ 7.15			AM 8.17	ELVAS	
					2.00	7.25			8.30 AM	SACRAMENTO	
:	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily Ex. Monday	Arrive Daily	(62.4)					
	(1.40) 31.20	(1.45) 29.54	(1.35) 32.65	(0.19) 33.78	(2.30) 24.96	(2.10) 28.80	(0.16) 40.12	(0.14) 45.85	(1.35) 32.65	Time over District	

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

AD	ADDITIONAL FLAG STOPS TO RECEIVE OR DISCHARGE REVENUE PASSENGERS									
Train	At	Receive To (or Beyond)	Discharge From (or Beyond)	Frequency						
59 261	Any Station	Sacramento Any Station	Fresno Any Station	Daily Daily						

No. 59 reduce speed to 15 MPH at Acampo and Elk Grove to dispatch mail.

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

No. 261 stop at French Camp and Acampo daily except Sunday and Holidays to exchange mail.

				LATH	ROP S	UBDIV	/ISION	1					15
					-		WE	ESTWA	RD				
	Timetable No. 241			FI	RST CLA	ss				THIRD	CLASS		
Mile Post Location	June 2, 1946	Distance from Brighton	262	54	55	51	60	420	426				
Mu		Dist	Passenger	Sacramento Daylight	Passenger	San Joaquin Daylight	West Coast	Freight	Freight				
	STATIONS		Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily				
70.8	TO-R TRACY 7.5	62.4	AM s 10.00	AM s 11.05	PM s 3.47	PM s 5.55	**************************************						
78.3	San Joaquin River Drawb'ge 3.2	54.9				3.00							
81.5	R LATHROP 6.2 TSRy Crossing 3.2	51.7	s 9.40	10.50 10.25	3.31 PM	5.40 PM	PM 9.26	AM 10.55	PM 6.45				
90.9	TSRy Crossing 3.2 TO-R STOCKTON	45.5											
92.3	TO-R STOCKTON 1.4 STOCKTON TOWER No. 4	1	s 9.25	s 10.05			s 9.14	10.35	6.25				
93.9	1.6 AKERS	40.9 39.3											
95.0	End of Double Track	38.2											
96.6	E CASTLE	36.6											
	ARMSTRONG	33.0											
103.3		29.9	s 8.45	s 9.41			s 8.47						
106.2	2.9 Centralized ACAMPO 3.3 FOREST LAKE	27.0	f				- 0.1.						
109.5	FOREST LAKE 2,2	23.7	f										
111.7	GALT 3.8 NEED	21.5	s 8.23				8.32						
115.5	NEED 4.0	17.7	f										
119.5	4.0 Control 3.4	13.7	f										
122.9	ELK GROVE 2.8	10.3	s 8.02				8.18						
125.7	MEADOWS 3.3	7.5											
129.0	FLORIN 3.0	4.2	s 7.52	9.06			8.11						
133.2	POLK 1.2	1.2											
133.2	BRIGHTON	0.0	7.45 AM	9.00 AM			8.05 PM	9.15 AM	5.00 PM				
	See Sa	acramen	Time to Division	at Sacram timetable	ento and I for train r	Elvas for in novements	formation between S	only. Sacramento	and Brigi	nton.			
	ELVAS		AM 7.40	AM 8.55			РМ 7.58				1	1	
	SACRAMENTO		7.30 AM	8.45 AM			7.58 7.45 PM						
	(62.4)		Leave Daily	Leave Daily	Leave Daily	Leave Daily	Leave Daily	Leave Daily	Leave Daily				—
	Time over District		(2.15) 27.73	(2.05) 29.90	(0.16) 40.72	(0.15) 42.80	(1.21) 38.29	(1.40) 31.20	(1.45) 29.54				

No. 60 will not stop at station at Lathrop but will use east leg of wye to Merced Subdivision.

ADDITIONAL FLAG STOPS TO RECEIVE OR DISCHARGE REVENUE PASSENGERS									
Train	At	Receive To (or Beyond)	Discharge From (or Beyond)	Frequency					
60 2 62	Any Station	Modesto	Sacramento Any Station	Daily Daily					

No. 60 reduce speed to 15 MPH at Elk Grove to dispatch mail. No. 55 stop at Banta, when necessary, to exchange mail. No. 262 stop at Acampo and French Camp daily except Sunday and Holidays to exchange mail.

16			M	ERCED SUBDIV	ISION				
			EASTWARI	D					
	THIR	D CLASS	SECOND CLASS	FIRST CLAS	ss		n st	Timetable No. 241	rom P
Capacity of sid		420	402	60	56	52	Mile Post Location	June 2, 1946	Distance from Lathrop
in car length	s Freigh	Freight	В. М	West Coast	Passenger	San Joaquin Daylight			Di
	Leave Da	ly Leave Daily	Leave Daily Ex. Monday	Leave Daily	Leave Daily	Leave Daily		STATIONS	
ri Fresno 53 W	PM 6.4	AM 5 10.55	AM 12.20	PM 9.26	PM 1.42	AM 10.38	92.9	TO-R LATHROP	0.0
Xq.I.	IP						93.8	WPRR Crossing	0.9
72	P 6.5	3 11.03	12.28	f 9.34	s 1.52		96.8	TO MANTECA	3.9
112	Р 6.5	11.08		9.37	1.56	10.54	99.4	CALLA	6.5
79	P 7.0	5 11.15	12.37	9.41	s 2.03		103.3	TO RIPON 3.1	10.4
79	P 7.1	11.22	12.43	9.45	s 2.10		106.4	SALIDA 6.7	13.5
Nos. 1-98, 2-110, Yd. Lmts. BKW	3-125 OYP 7.2	11.35	1.05	s 10.00	s 2.30	s11.11	113.1	TO-R MODESTO	20.2
	IP						114.7	TSRy Crossing	21.8
66	P 7.3		1.14	10.06	s 2.37	11.17	117.4	2.7 CERES 3.4	24.5
67	P 7.4			10.10	f 2.43		120.8	3.4 KEYES 5.4	27.9
Yard Limit 78	P 7.5	PM 12.03	1.26	s 10.19	s 2.56	s 11.28	126.2	TO TURLOCK	33.3
91	P 8.0	3 12.13		10.26	f 3.03		131.9	5.7 DELHI 4.5	39.0
80	WP 8.1	12.21	1.42	f 10.34	s 3.13	11.38	136.4	TO LIVINGSTON 6.8	43.5
70	P 8.2	12.31		f 10.42	f 3.24		143.2	TO ATWATER 4.2 FERGUS	50.3
125 Yard Limit	P 8.3		2.00	10.48	3.30	AM	147.4	3.1	54.5
147 BKWC	TP 8.5	12.50 1.10	2.28	s 11.05	s 3.55	s 1 1.54 PM	150.5	TO-R MERCED	57.6
71	P 9.10	1.22	2.43	11.15	f 4.03	12.01	156.6	LINGARD 3.9 ATHLONE	63.7
74	P 9.20	1.31		11.20	f 4.15		160.5	ATHLONE 6.4 MINTURN	67.6
78	P 9.3	1.43	3.00	11.27	f 4.24	12.11	166.9	1.3	74.0
W	YP				s 4.30		168.2	TO CHOWCHILLA 4.8 FAIRMEAD	75.3
73	P 9.4	1.54		11.36	f 4.37		173.0	FAIRMEAD 3.5 BERENDA	80.1
70 V	TP 9.5	2.02			f 4.43	12.20	176.5	BERENDA 2.7 NOTARB	83.6
98 Yard Limit	P 10.0	2.10	3.20	11.42 PM	4.48		179.2	4.7	86.3
139	P 10.1			s 11.52			183.9	TO MADERA 6.3 IRRIGOSA	91.0
77	P 10.2	2.31		AM 12.01		12.37	i .	IRRIGOSA 5.4 HERNDON	97.3
78	P 10.3	2.41	3.50	12.08	f 5.18	12.43	195.6	HERNDON 3.6 BIOLA JCT.	102.7
yard	IP 10.4	5 2.55	4.00 AM				199.2	2.6	106.3
1 2	WP 10.4	5 2.55 FM	AM	12.16 8 12.28	5.28 s 5.40	12.50 s 1.00 PM	201.8	TO-R FRESNO YARD	108.9 112.6
E L BKWO'	Arrive Da	ily Arrive Daily	Arrive Daily			Arrive Daily	205.5	(112.6)	112.0
			Ma. Monday					Time over District	
	(4.00) 27.31	(4.00) 27.31	(3.40) 30.70	(3.02) 37.12	(3.58) 28.39	(2.22) 47.57		Average 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 ST	ATIONS	ADDITIONAL STATIONS					
NAME	Mile Post	Capac- ity	NAME	Mile Post	Capac- ity		
Fresno line Coronet (Spur) Covell (Alcant (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		

A	DDITIONAL FLAG STOPS TO RECE	EIVE OR DISCHA	RGE REVENUE P	ASSENGERS
Train	AT	Receive To (or Beyond)	Discharge From (or Beyond)	Frequency
60	Any Station		Stockton	Daily

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 to receive mail.

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 but will use east leg of wye to Lathrop Subdivision.

No. 59 reduce speed to 30 MPH at Chowchilla to dispatch mail. No. 55 make an additional stop on flag at mail crane 1650 feet east of station building Keyes, to exchange mail.

18	NILES SUBDIVISION										
	E	CASTWARD									
	Т	THIRD CLASS			SECONI	D CLASS	# 4	Timetable No. 241	[E z		
Capacity of sidings		408	406	472	402	444	Mile Post Location	June 2, 1946	Distance from Redwood Jct.		
in car lengths		Freight	Freight	Freight	В. М.	C. C. M.	MJ		Dist		
		Leave Daily	Leave Daily	Leave Daily	Leave Daily Ex. Sunday	Leave Daily Ex. Sunday	/ '	STATIONS	i		
WIYP		AM 9.30		AM 1.20	PM 8.40	PM 8.00	26.2	TO-R REDWOOD JCT.	0.0		
Yd.Lmts MIAb			<u> </u>				27.5	End of Double Track	1.3		
64 P		9.37	<u> </u>	1.27	8.47		29.5	HENDERSON	3.3		
51 P		9.45		1.34	8.54	.[]	33.9	DUMBARTON	7.7		
Yard Limits 100 WIYP		10.05	AM 6.05	1.55	9.20	8.20	37.2	TO-R NEWARK	11.0		
51 P		10.15	6.10	2.00	9.25		40.1	CENTERVILLE	13.9		
21 80 P		10.25	6.25	2.03	9.28	8.26	41.7	1.6 SHINN 0.7	15.5		
Athermal Park IND		10.27	6.30	2.05	9.30	8.28 PM	42.4 43.0		16.2		
	1	10.30		2.07	9.32	.[]	29.6	NILES JCT.	16.8		
76 P	1	10.35		2.12	9.37	[]		FARWELL	18.9		
91 P		10.46		2,22	9.47		35.6	SUNOL	22.8		
73 P	<i></i>	10.57	7.00	2.33	9.58	—	40.9	1.1	28.1		
is IYP					 	1	42.0	TO RADUM	29.2		
Yard Limits	<i></i>	11.01	7.04	2,37	10.02		43.0	8.9 ELIOT	30.2		
1-79, 2-80 BKWP		11.10		2.46	10.11		46.9	TO-R LIVERMORE	34.1		
72 P	<u> </u>	11.17	7.19	2.53	10.18		50.5	ULMAR 4.5	37.7		
88 WTP	<u> </u>	11.30	7.29	3.05	10.30		55.0	TO ALTAMONT	42.2		
72 P	<i>i</i> ————————————————————————————————————	11.40 AM	7.40	3.17	10.42		59.5	CAYLEY 3,6 MIDWAY	46.7		
Tracy yard BKWOTYP		11.52 12.05 PM	7.52 8.10 AM	3.30 3.45 AM	10.55 11.10 PM		63.1	7.7	50.3		
ВКЖОТУР		PM Arrive Daily	-	AM Arrive Daily		Arrive Daily Ex. Sunday	70.8	(58.0)	58.0		
		(2.35) 22.45	(2.05) 22.56	(2.25) 24.00	(2.30) 23.20	(0.28) 34.71		Time over District			

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

Schedule time and train-order time on Elmhurst-Santa Clara line at Newark apply at siding east of station building. Siding extends from initial switch at east end to crossover only.

West end of house track at Newark, between crossover 300 feet west of station building and west switch is designated Passenger siding for use by passenger trains when authorized by train order, and must be left clear.

Siding of Centerville-Redwood Jct. line at Newark is west of crossing of Elmhurst-Santa Clara line.

Schedule time and train-order time for eastward trains having authority to main track at Eliot apply at crossover designated as California link.

California link.

Schedule time and train-order time for westward trains at Livermore apply at west end siding No. 1, and for eastward trains apply at east end siding No. 2. Westward trains taking siding will use siding No. 2 and eastward trains taking siding will use siding No. 2 and eastward trains taking siding will use siding No. 1 unless otherwise instructed. Siding No. 1 extends from station building westward 4600 feet, and siding No. 2 extends from switch 2000 feet east of station building eastward 4000 feet. Connection between siding No. 1 and siding No. 2 must be left clear.

MERCED SUBDIVISION

-13175-71			21222
	EAST- WARD	Timetable No. 241	WEST- WARD
Capacity of sidings in car lengths	ost	June 2, 1946	from B
III Cai Tongsus	Mile Post Location	Berenda Branch	nce
	Z,i	STATIONS	Distance from Daulton
70 WTP	176.5	R BERENDA	11.4
I	179.8	TO KISMET TOWER	8.1
12	183.8	TALBOT	4.1
	187.9	DAULTON	0.0
		(11.4)	

Capacity of sidings in car lengths	WARD Fost Post Post Post Post Post Post Post P	Timetable No. 241 June 2, 1946 Chowchilla Branch STATIONS	Distance from Dairyland
WYP	168.2	TO CHOWCHILLA	10.1
	178.3	DAIRYLAND	0.0
		(10.1)	

ADDITIONAL ST	ATIONS	
NAME	Mile Post	Capac- ity
Chowchilla Branch	172.6	
Tillman(Spur)	175.3 177.2	5

							NILJ	ES SU	BDIVI	SION		***************************************			NILES SUBDIVISION 19										
										WF	ESTWA	RD													
		Time	table No	o. 241						TH	IIRD CLA	SS	P												
Mile Post Location	i		une 2, 194	-	Distance from Tracy	401	429	409	433	413	437														
Log Mei		-	,		Distar Tr	401 Freight	429 Freight	409 Freight	433 Freight	413 Freight	437 Freight		: 												
	 				┨		-		<u> </u>					-											
26.2	Tr		NOITATE		58.0	Arrive Dally AM	Arrive Daily		Arrive Daily	Arrive Daily PM	Arrive Daily														
27.5	-		1.3 of Double	լ,	7	3.10		AM 10.55		6.40			***************************************												
29.5	-		2.0 IENDERSOI	J	54.7	3.04		10.49		6.34				<u> </u>											
33.9	-		4.4 UMBARTO		50.3	2.56		10.49		6.26				,											
37.2	TC	O-R	3.3 NEWARK		47.0	2.49		10.34		6.19				<u> </u>											
40.1	-	CF	2.9 ENTERVILI	LE	44.1	2.43		10.28		6.13															
41.7	-		SHINN		42.5	2.40	1	10.25		6.10															
42.4		O-R NI	0.7	ER	41.8	2.38	AM	10.23	AM	6.08	PM														
43.0 29.6	System	····	0.6 NILES JCT 2.1		41.2	2.37	3.08	10.22	11.05 11.04	6.07	6.38 6.37			 											
31.7	ock Sy	-	FARWELL 3.9	,	39.1	2.33	3.03	10.18	11.00	6.03	6.33			-											
	lie Bile		SUNOL 5.3		35.2	2.22	2.53	10.08	10.46	5.53	6.23			-											
40.9	TC TTC	O PI	LEASANTO	N	29.9	2.12	2.42	9.57	10.30	5.42	6.12														
42.0	TO	5	RADUM 1.0		28.8		-							 											
43.0			ELIOT 3.9		27.8	2.08	2.37	9.53	10.26	5.38	6.08														
46.9	TC	O-R L	IVERMOR	E	23.9	2.00	2.30	9.45	10.18	5.30	6.00														
50.5	-	****	ULMAR 4.5		20.3	1.53	2.23	9.38	10.11	5.23	5.53														
55.0	TO	5 A	ALTAMONY 4.5	r	15.8	1.42	2.12	9.27	10.00	5.12	5.42														
59.5			CAYLEY 3.6	····	11.3	1.32	2.02	9.17	9.47	5.02	5.32														
63.1			MIDWAY 7.7		7.7	1.20	1.50	9.05	9.35	4.50	5.20		·	1 .											
70.8	TC	O-R	TRACY		0.0	1.00 AM	1.30 AM	8.45 AM	9.15 AM	4.30 PM	5.00 PM														
			(58.0)			Leave Daily		Leave Daily	Leave Daily	Leave Daily	Leave Daily														
	A	Time	e over Dis e Speed pe	trict		(2.10) 26.76	(1.38) 25.69	(2.10) 26.76	(1.50) 22.80	(2.10) 26.76	(1.38) 25.69														
					11 11		20.00	20								==									
		EA	STWA	RD							WEST	WARD													
				HIRD CLAS	35	Mile Post Location	i	etable No		2.5	SECOND	CLASS													
	y of sidi		437	433	429	Mile	J	June 2, 1940	6	Distance i San Jose 1	444]									
	2010	' I	Freight Leave Daily	Freight Leave Daily	Freight Leave Daily		-	STATIONS			C. C. M. Arrive Daily		Г												
<u></u>					100.0		<u> </u>		<u> </u>	╬═	Ex. Sunday			ADDITIONAL S	TATIONS										
Yd.Lmts.		WYP	PM	AM	AM 3.08	29.2	TO-R	0.6		18.5	8.30 8.28 PM			NAME	Mile Post	Capac-									
		IYP	6.38	11.05		29.8		ILES TOWE		17.9	PM		T	Cracy line	20.0										
33		P	6.48		3.18	32.8	4)	RVINGTON		14.9			Ravenswood			15 39									
37		P P	7.08	11.35	3.38	40.7	, '	MILPITAS		7.0 4.4				10		P									
San J	ose yar KWOIT		7.30 PM	11.57 AM	4.00 AM	43.3	R SAN	WAYNE		0.0															
1	CWOIL	TIF	Arrive Daily		Arrive Daily	47.7	(K 3An	(18.5)	KU		Leave Daily Ex. Sunday														
i			(0.52) 21.60	(0.52) 21.60	(0.52) 21.60			e over Dist		1	(0.02)														
			21.60	21.60	21.60	d [[.	Average	3 Speed pe	r Hour		15.00														

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

schedule time and train-order time on Elmhurst-Santa Clara line at Newark apply at siding east of station building. Siding extends from initial switch at east end to crossover only.

West end of house track at Newark, between crossover 300 feet west of station building and west switch is designated Passenger siding for use by passenger trains when authorized by train order, and must be left clar and must be left clear.

Siding of Centerville-Redwood Jct. line at Newark is west of crossing of Elmhurst-Santa Clara line.

Schedule time and train-order time for eastward trains having authority to main track at Eliot apply at crossover designated as California link.

Schedule time and train-order time for westward trains at Liver-Schedule time and train-order time for westward trains at Livermore apply at west end siding No. 1, and for eastward trains apply at east end siding No. 2. Westward trains taking siding will use siding No. 2 and eastward trains taking siding will use siding No. 1 unless otherwise instructed. Siding No. 1 extends from station building westward 4600 feet, and siding No. 2 extends from switch 2000 feet east of station building eastward 4000 feet. Connection between siding No. 1 and siding No. 2 must be left clear.

NILES SUBDIVISION

EASTWARD THIRD GLASS FIRST CLASS Capacity of sidings in car lengths Teight Freight Freight Freight C. M. E. Passenger Passe	Distance from
Capacity of sidings in car lengths 422 418 Freight Freight Freight Cakland C. M. E. Passenger P	Distance from Oakland Pier
Freight Freight Lark C. M. E. Passenger Passenger Passenger	Distance for Oakland P
	-ll i
Leave Daily Ex. Sunday Leave Daily Ex. Sat., Sun. Leave Daily Leave Daily Leave Daily Leave Daily Leave Daily STATIONS	
PM 8.00 PM AM AM 8.00 SAN FRANCISCO 3	Oakland
	and
PM	0.0
BKWOITYP PM 8.45 9.00 PM 7.30 4.9 TO-R WEST OAKLAND	1.4
IP 4.48 9.48 5.9 MAGNOLIA TOWER	2.4
DEWOITT	Double Track
YIP s 8.50 s 7.48 9.7 FRUITVALE	6.2
WP 9.30 9.25 8.55 7.50 7.53 13.4 ₹ TO-R ELMHURST	9.9
	16.7
70 WP 9.44 10.00 9.05 8.01 8.02 20.2 0 RUSSELL	21.8
10:10 7am 5:19 0:12 S 6:16 30.0 10-10 NEWARK	27.1
80 P 10.20 9.24 8.52 8.24 34.1 ALBRAE	30.6
P 9.30 8.30 39.1 ALVISO	35.6
53 P 10.38 f 9.35 9.05 8.34 41.7 TO AGNEW	38.2
San Jose yard 10.45 9.40 9.15 8.40 44.8 TO-R SANTA CLARA	41.3

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

			2.50				8,45 XM ⁵	SAN JOSE	
	Arrive Daily	Arrive Daily Ex. Sunday	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	(1.45) 22.80	(0.08) 18.00	(0.08) 18.00	(1.15) 33.04	Time over District	

E	ASTWARD				WEST	WARD
Capacity of sidings in car lengths		Mile Post Location		Timetable No. 241 June 2, 1946	Distance from Niles Jct.	SECOND CLASS 444
		L Mi		STATIONS	Dista Nii	C. C. M. Arrive Daily Ex. Sunday
Oakland	WP	13.4		TO-R ELMHURST	16.2	РМ 9.08
o ak	P	14.8	em	TO SAN LEANDRO	14.8	
3!	5 P	17.5	System	LORENZO	12.1	
100	0 P	20.1	Block	TO HAYWARD	9.5	8.52
32	2 P	26.5	atic	DECOTO	3.1	
Yard Limits	70 KWYP	29.2	Automatic	TO-R NILES	0.4	8.30 PM
EX		29.6 43.0		NILES JCT.	0.0	
				(16.2)		Leave Daily Ex. Sunday
				Time over District Average Speed per Hour		(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.

RULE 5. Schedule time and train-order time on Elmhurst-Santa Clara line at Newark apply at siding east of station building. Siding extends from initial switch at east end to crossover only.

West end of house track at Newark, between crossover 300 feet west of station building and west switch is designated Passenger siding, for use by passenger trains when authorized by train order, and must be left clear. Passenger siding at Newark has capacity of engine and 13 passenger cars.

Siding of Centerville-Redwood Jct. line at Newark is west of

crossing of Elmhurst-Santa Clara line.

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							
Santa Clara line									
East Oakland	8.3	P							
Mulford	15.5	20 P							
Robert	17.8	20 P							
Mt. Eden	21.5	21 P							
Baumberg(Spur)	23.0	10							
Hall(Spur)	26.2	9 P							
Drawbridge	36.5	P							
Niles line									
Estudillo	16.5	35 P							
Halvern	24.0	l							
Pabrico (Spur)	27.6	11							

NILES	SURD	IVISION	J
TITLE	עעטט	TATOTOL	ŧ

				NIL	ES SU	BDIVI	SION					2
							WE	ESTWARD				
ost	Timetable No. 241	FIRST CLASS SECOND CLAS					SECOND CLASS		THIRD	CLASS	CLASS	
Mile Post Location	June 2, 1946	Distance from Santa Clara	39 W. P.	335 Oakland	73 Oakland	1 W. P.	255 Passenger	444 c. c. m.	419 Freight	407 Freight	417	
	STATIONS		Passenger Arrive Daily	C. M. W. Arrive Daily Ex. Sun., Mon	Lark Arrive Daily	Passenger Arrive Daily	Arrive Daily	Arrive Daily Ex. Sunday		Arrive Daily	Freight Arrive Daily Ex. Sunday	
0.0	SAN FRANCISCO	44.8	AM 8.50		AM 9.50	PM 5.20	PM 6.50					
3.5	OAKLAND PIER	41.3	8.30		9.30	5.00	6.50 6.30					
3.5	TO-R OAKLAND PIER	41.3	AM s 8.05		aM s 9.20	PM s 4.40	PM s 6.28					
4.9	TO-R WEST OAKLAND	39.9		AM 8.50			- 0.20	РМ 9.30	AM 5.30		PM 5.50	
5.9	MAGNOLIA TOWER 0.8 0.8	38.9	7.55 AM			4.28 PM			0.00		3.30	
6.7	3.0	38.1			s 9.05		s 6.18					
· .	3.7	35.1			s 8.50		s 6.06					
	TO-R ELMHURST 6.8 RUSSELL	31.4		8.20	8.42		5.56	2.08 FM	5.00		5.25	
20.2	5.1	24.6		8.02	8.33		5.46		4.45		4.50	
	TO ALVARADO 5.3 TO-R NEWARK	19.5		7.48	8.27		5.39		4.35		4.30	
34.1	3.5 ALBRAE	14.2		7.39	8.18		5.31		4.20	AM 6.05	3.30 PM	
39.1	5.0 ALVISO	10.7 5.7		7.32	8.06 f 8.01		5.24		4.00	5.58		
41.7	TO AGNEW	3.1		7.20	f 7.57		5.14		2.40	- E AP		
44.8	3.1 TO-R SANTA CLARA	0.0							3.40	5.47		
				7.15 AM	7,52	informati	5.10 PM		3.30 AM	5.40 AM	<u> </u>	

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

SAN JOSE		7.10 AM	74 ⁷		5,Q5					
 (41.3)	Leave Daily	Leave Daily Ex.Sun.,Mon	Leave Daily	Leave Daily	Leave Daily	Leave Daily Ex. Sunday	Leave Daily	Leave Daily	Leave Daily Ex. Sunday	
Average Speed per Hour	(0.10) 14.40	(1.35) 25.20	(1.28) 28.14	(0.12) 12.00	(1.18) 31.75	(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. Siding extends from initial switch at east end to crossover only.

West end of house track at Newark, between crossover 300 feet west of station building and west switch is designated Passenger siding, for use by passenger trains when authorized by train order, and must be left clear. Passenger siding at Newark has capacity of

engine and 13 passenger cars.

Siding of Centerville-Redwood Jct. line at Newark is west of crossing of Elmhurst-Santa Clara line.

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.

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 phonted 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.

	EAST- WARD	Timetable No. 241	WEST- WARD
Capacity of sidings in car lengths	ost	June 2, 1946	Distance from Stonehurst
	Mile Post Location	Stonehurst Branch	istance fro Stonehurst
	E 1	STATIONS	Dist.
Oakland yard AM	13.4	TO ELMHURST	0.9
Oak y	14.3	STONEHURST	0.0
		(0.9)	

RULE 2. Watch inspectors: S. A. Pope, Manager of Time Service, 65 Market St., San Francisco. S. A. Pope, Manager of Time Service, 65 Market St., San Francisco.

San Francisco.

E. J. Land, 745 Third St.
San Francisco.

I. S. Preston, 357 Phelan Bldg.
Oakland.

E. W. Becker, 3357 E. 14th St.
Oakland.

L. L. Hoffman, 740 Broadway
Oakland.

E. S. Griffin, 214 Easton Bldg.
Oakland.

Don J. Allphin, 5836 Foothill Blvd.
Alameda.

A. O. Gott
Berkeley.

Service & Post, 2179 Shattuck Ave.
Berkeley.

Ernest L. Dorrett, 1823 Solano Ave.
Richmond.

O. A. Poulsen. 1317 McDonald Ave. Berkeley Service & Fost, 2179 Shattuck Ave.
Berkeley Ernest L. Dorrett, 1823 Solano Ave.
Richmond O. A. Poulsen, 1317 McDonald Ave.
Stockton C. Mantele, 129 N. Sutter St.
Lodi John Shulie
Benicia Curt S. Appe
Vallejo G. E. Bangle Co.
Calistoga A. J. Sorini
Winters C. E. Wyatt
Sacramento H. T. Harger, 1028 K St.
Roseville W. F. Sugden
Martinez John G. Beard
Pittsburg Messrs. H. A. Minasian & H. A. Clark
Tracy L. H. Jolley
Livermore C. Harlie Power
San Jose Kochers, 160 So. First St.
Newman Ernest Beall
Los Banos John B. Machado
Fresno C. P. Clayton, Room 215, Pacific Southwest Bldg.
Maderad W. McElbergon Madera. J. W. Brooks
Merced. W. McElherron
Modesto. W. P. Shoemake
Turlock. D. F. Hall

RULE 2 (A). Watches subject to inspection must be presented 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 (H). Where yellow signals are displayed within limits of a length of track over which a maximum speed is designated as the state of the stat nated in train-order or timetable bulletin and no maximum speed is otherwise specified for the particular section of track protected by these yellow signals, trains must not exceed 15 MPH thereover.

RULE 10 (J). Certain slow boards have the word "SIGNAL" above the figures. Such slow 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 slow board, unless distant signal can plainly be seen to be displaying proceed indication; and such slow boards in approach to a home signal indicate the speed that must not be exceeded while approaching home signal three-fourths mile beyond the slow board, until indication of home signal can plainly be seen.

RULE 15. Second paragraph is changed to read as follows: "The explosion of two torpedoes is a signal to proceed with caution for not less than one mile."

RULE 17. Mars signal light on engines shall be used when engine is moving at night, and in foggy or stormy weather. It must be dimmed or extinguished approaching passenger stations, and at other points as prescribed by rules.

RULE 26 is revised to read as follows:

"A blue signal or sign reading 'Men at Work' displayed on engineer's side of cab of an engine, or at one or both ends of a car, cut of cars, or at the rear of a train, indicates that workmen are under or about same and the engine, car, cut of cars, or train must not be coupled to nor moved by any method, nor other equipment placed so as to obstruct the view of the blue signal or sign.

"Blue signal or sign must not be removed by any person except

the one placing the signal or sign, or someone authorized by him

to do so.

"On designated tracks (repair, cleaning, servicing, etc.) where employes work, a sign reading "Stop—Men at Work" must be placed on the track and switches leading to such track locked; and from sunset to sunrise a blue light must also be displayed. Employes placing such sign and locking switches, only are authorized to

change same.

"When repair work is to be done under or about an engine or
"When repair work is to be done under or about an engine or cars in a train, where movement of same would endanger employes engaged in such work, and a blue signal or sign is not available, the enginemen of engine handling train must be notified by employe engaged in such work and a complete understanding had to prevent movement. After work is completed the same employe must notify

enginemen."

RULE 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. Third, fourth and sixth paragraphs are changed to

read as follows:

"If recalled from a point less than one-half mile from rear of his train, he must, if safety to train requires, leave lighted fusee at proper intervals and, if conditions warrant, also place two torpedoes

on the rail three rail-lengths apart.

"If not recalled, one-half mile from rear of train he must place one torpedo on the rail; one mile from rear of train, or when recalled, if one-half mile or more from rear of train, he must place two torpedoes on the rail three rail-lengths apart. If conditions such as curves, foggy or stormy weather or descending grade require, he must continue back a greater distance, placing two additional torpedoes.

"When flagman has reached the required flagging distance and has placed torpedoes as required, he may then return to the single torpedo where he must remain until relieved by another flagman or recalled. When recalled, he may remove the single torpedo and return, leaving lighted fusee at such intervals as conditions warrant."

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 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. Abbreviations used for sidings: "E" for eastward, "W" for westward, "M" for middle.

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 210 is modified to provide that when using revised Train Order Form CS-2600, which has the words "Repeated and Complete" printed at bottom of the form, operator will write or typewrite the time and his or her last name in the space provided on the order, after it has been made complete by train dispatcher.

RULE 221. First sentence of third paragraph is amended as follows:

"When a train-order is to be delivered to an approaching train, or orders are held for any other train in the same direction, except those originating, the operator must not clear the signal." RULE 271 is revised to read as follows:

"Automatic block signals will bear number plates attached to signal masts. Automatic semaphore home signal arms will be painted red and will be distinguished by white stripe near end of semaphore arm.

"The number plate on a distant light signal will bear the

prefix 'D'.
"Interlocking signals will not bear number plates.

"Absolute signals will not bear number plates, but will have plates bearing the letter 'A'

"Interlocking and absolute semaphore home signal arms will

be painted red.

Aspects as illustrated or referred to in these rules are shown by the position of semaphore arms or color of lights, or both, as seen from an approaching train. Other combinations may be used."

RULE 295 is revised to read as follows:

"Interlocking or absolute signals may be made part of the automatic block system adjoining interlocking or centralized traffic control limits. When so arranged they will be designated 'semi-automatic' and distinguished by a plate bearing the letters 'SA'. Trains stopped by such signals must observe interlocking or centralized traffic control rules within the interlocking or centralized traffic control limits, and Rule 509, 509 (F), or 509 (J), as the case may be, within the interlocking or centralized traffic control limits, and Rule 509, 509 (F), or 509 (J), as the case may be, within the automatic portion of the block beyond interlocking or centralized traffic control limits."

RULE 297. Following paragraph is added: "A train, if delayed in the block, must proceed with caution to the next signal."

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 time-release 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.

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 interlocking plants, when route lined is not to be used, following signal will be sounded by engineers: 0 0 - 0 0.

RULES 705 and 707 are revised to read as follows: "LETTER TYPE INDICATORS

"705. Within block system limits, at locations specified in timetable, letter type indicators may be used. These indicators will be attached to an automatic block signal, and will display indications by illuminated letters, which will supersede the superiority of trains within defined limits.

"S—Take siding (Fig. 1).
"M—Proceed on main track (Fig. 2).

"Other letters, or combinations of letters may be used.
"S-707. When the letter 'M' is displayed, train is thereby given superiority over all trains to the fouling point of the switch at which an opposing train may enter siding or receiving track, and will hold main track at the station, but must observe any restrictions

"D-707. When the letter 'M' is displayed approaching a siding, or at the initial switch of a siding, train will hold main track; when displayed on a siding near the leaving end of siding, train will enter main track and in either case train is thereby given superiority over all following trains to the point designated in timetable but must observe any restriction that may be imposed by automatic block or other signals."

GENERAL REGULATIONS

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

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 837. Fifth paragraph is revised to read as follows: "Cars standing on grade must not be coupled onto, in descending direction, without knowing sufficient hand brakes are set to prevent uncontrolled movement of any such cars should coupling fail or cars not be securely coupled together."

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

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.

AIR BRAKE RULES

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

MISCELLANEOUS

4. 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 behind 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. When yard engine is used on head end to help a train between Port Costa and Bahia, it must be coupled behind road engine. 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

to clear Upper Crossover to cut pusher engine off.
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 siding between clearance points is based on an average car length of 49 feet not including engines 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

connection with military and navai 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

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.

A PARTIE AND A STANDARD CONTRACTOR OF THE STANDA

SPEED RESTRICTIONS

*List of CCB (cross counter-balanced) engines:

All P-8 class, except eng. 2470; F-1 class: 3611, 3612, 3615, 3616, 3617, 3619, 3620, 3625, 3629, 3634, 3636, 3638, 3643, 3647, 3652;

3634, 3636, 3638, 3643, 3647, 3652;
F-3 class: 3653, 3654, 3655, 3656, 3657, 3658, 3660, 3661, 3662, 3663, 3664, 3665, 3666, 3667;
F-4 class: 3668, 3670, 3671, 3672, 3674, 3675, 3676, 3677, 3678, 3679, 3681, 3682, 3683, 3684, 3685, 3686, 3687, 3688, 3689, 3699, 3693, 3695, 3696, 3697, 3698, 3699, 3701, 3702, 3703, 3704, 3705, 3706, 3707, 3709, 3711, 3715, 3716, 3717;
F-5 class: 3718, 3720, 3721, 3722, 3723, 3727, 3728, 3732, 3734, 3737, 3742, 3752, 3753, 3755, 3760, 3762, 3763, 3764, 3765, 3766, 3767, 3768

3768, 3769;

AC-6 class: 4126, 4127, 4128, 4130, 4131, 4132, 4133, 4135, 4136, 4137, 4138, 4139, 4140, 4141, 4142, 4143, 4144, 4146, 4147, 4148, 4149, 4150.

MAXIMUM SPEED PERMITTED CERTAIN ENGINES

Maximum speed for C-15-17-32, Mk-10-11 and MM-3 class engines

35 MPH when handling freight and mixed trains.

Maximum speed for gas-electric cars running light forward, 50 MPH, but must not exceed speed permitted when handling passenger trains.

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

Engines backing must not exceed 20 MPH on all curves, and when approaching highway crossings at grade.

Engines coupled tender to tender must not exceed speed per-

Diesel electric switch engines running forward, with train or

mitted 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.

light, may make maximum speed as shown below, except must not exceed speed permitted freight and mixed trains. These engines when backing may make speed shown below, except must not exceed speed permitted E class engines backing where such permitted speed is less than 30 MPH:

		Running F	'orward	Running Backwa	
(Classification	With Train	Light	With Train or Lig	ght
	200 1 to 7—100 to 107		30 40	30 40	

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

1	When all weight has been removed from any one pair
	of drivers
	When all weight has been removed from only one wheel
	from any pair of drivers30 MPH
	When engine truck is removed
	When main rod only is removed30 MPH
	When side rod only is removed
	When both main and side rods are removed20 MPH
	When hauled in train with all rods on30 MPH

MAXIMUM SPEED PERMITTED WITH

CERTAIN EQUIPMENT	MPI
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	35 25 25
Trains handling locomotive cranes with boom disconnected and light end forward (must not be handled in this manner except in emergency):	
On tangent main tracks On curves and on branch tracks Trains handling locomotive cranes with boom in place, either end forward (to be handled in work train when practicable):	20 15
On tangent main tracks On curves and on branch tracks Trains handling steel pille-drivers may make maximum freight train speed. Trains handling relief outfit with steam derrick:	25 15
On tangent main tracks	35 25 10
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 slow boards in place, 5 MPH less than shown on slow boards, except where speed indicated is 15 MPH or less be governed by slow boards.	

Passenger trains handling steel wheel box cars in series 5810 to 5874, and foreign line steel wheel box cars equipped for movement in passenger trains, but 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 exceed 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, 6083, 6085.

Maximum speed of deadhead equipment or passenger trains with standard caboose is 50 MPH.

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.

Trains consisting of engine and caboose only restricted to freight train speed.

RULE 10 (J). Round yellow slow 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 ...

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 1	AP .		East MP
	Oakland	(Martinez line)	17.35
	***	(Niles line)	15.82
	"	(Alvarado line)	14.01
27.97	Port Costa		39.24
	- "	(Benicia spur)	End track
	"	(Tracy line)	37.08
47.05	Suisun-Fair	field	52.45
-1.00	Suisuil'i all	(Napa Jct. line)	45.75
74.20	Domia	(Napa sca mie)	77.37
14.40	Davis	······································	11.01
05 54		(Tehama line)	76.94
85.51	Sacramento).,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	95.35
131.60	CONTRACTOR CONTRACTOR	(Stockton line)	136.33
39.53	Port Chicag	go	42.93
46.31	Pittsburg.		51.68
80.70	Tracy	(Martinez-Los Banos line)	85.64
69.19	"	(Niles-Lathrop line)	74.37
39.14	Napa Jct.	(Creston-Calistoga line)	38.21
	""	(Schellville line)	38.86
	66	(Vallejo line)	36.37
44.34	Napa		
and the second second			
70.82			End track
47.72	Schellville	(Lombard-Ignacio line)	38.94
		(Sonoma line)	49.70
31.81	Vallejo		End track

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 not less than ten feet, nor more than fifty feet from the following crossings and send flagman ahead who must ascertain that no movement is approaching on intersecting line before giving signal to proceed:

Oakland. AT&SFRy crossing of yard track at 20th & Kirkham Sts.

Oakland. AT&SFRy crossing of Surryne drill track, east of Santa Fe interchange.

Oakland. OTRy crossing of SP lead to Santa Fe interchange at 34th & Wood Sts.

Oakland. AT&SFRy two crossings of SP connection to OTRy interchange at 34th & Wood Sts.

Berkeley. Shipyard Ry crossing of yard track at 9th & Parker Sts.

Berkeley. Key System crossing yard track at Ward St. and Shattuck Ave.

Richmond. AT&SFRy crossing of SP and PMCorp leads at 27th St. & Seaver Ave. at Shipyard No. 2.

Richmond. AT&SFRy shipyard lead from Santa Fe 8th St. yard, crossing two Seaver Ave. drill tracks, near 14th St.

Stop clear of derails at the following crossings and send flagman ahead who must ascertain that no movement is approaching on intersecting line, then operate derail lever to close derails before giving signal to proceed. Restore derails after each movement over crossing.

Berkeley. Shipyard Ry crossings of two drill tracks at 9th & Harrison Sts. Derails are electrically locked. Obtain key from locked box.

Stege. Shipyard Ry crossings of Dump track.

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.

Vallejo. Approach crossing of Delano Ave. with caution. Crossing not protected by automatic crossing signal.

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, member of crew must protect crossing.

RULE 104. The normal position of rigid switches at the end of

Napa Jct.Schellville line, for Westward siding.

Napa Jct.Schellville line, for Calistoga-Vallejo line at MP 37.35.

Napa Jct. Suisun-Fairfield line, for Vallejo line, at MP 37.25. Union Crossover 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 and to be used by eastward trains; westward siding is first track north of westward main track and leaves westward main track 3000 feet west of MP 50 and to be used by westward trains; such trains will enter this siding at crossover just west of freight house.

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

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 Signal 66SA or 68SA indicates 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:

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 Nos. 262 and 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 instructions.

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 con-

trol limits some special protective device: Eastward Signals	Westward Signals
P-374 Spring switch, Napa Jet	
P-356 P-358 Spring switch, Mococo	P-359

error fait account of the class of being stated and entitle

RULE 516. Overlap posts:

Los Medanos (250 feet west of Signal 509).. Westward trains.

RULE 535. SPRING SWITCHES

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

Location	Normal Position	MPH Facing Trailing
MococoEnd double track	Westward track.	35 35

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

Normal Position Facing Trailing Martinez...Junction switch....... Bridge line 25 Napa Jct... West end big balloon... Suisun-Fairfield main track.... 15 15

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 Santa Fe interchange to Oakland Pier, -.

To Santa Fe 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).

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 building, 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 of tower.

Whistle signals:

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

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.

AUTOMATIC INTERLOCKING

Stege. Shipyard Ry double track crossing of Stauffer Chemical

spur and both legs of wye.

Stop at interlocking signal and if switch indicator indicates intersecting line clear, operate push-button to obtain proceed indication in signal. Signals automatically return to stop indication after each movement over crossing.

RULE 705. LETTER TYPE INDICATORS

Indicators located as follows:

Illuminated Letter		Approaching	Authorizes and Requires Movement as Follows	
s	767		siding. Applies to freight trai	ins
w	945	only	7. ed to Shellmound.	
S	245	.PinoleEnter	siding.	

GENERAL REGULATIONS

RULE 824. Tracy. Before engine is detached from train from Martinez line not less than four hand brakes must be set on west end.

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 inspec-tion, 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

Creek

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 Oak-

land, 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.

MISCELLANEOUS

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.

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 on drivers	.Cordelia—Winery spur. Napa Jct.—Calistoga line wye. .Ramal—Beyond stock chute on corral.
Engines over 135,000 pounds on drivers Engines over 162,000 pounds	.Vacaville—Other than main track.
on drivers	.Dixon—Alfalfa meal track.
P, and Eng. 2371	.Tremont—Corral track.
P, and Eng. 2371	.Newlove—Spur. Tracy — Brewery track; Holly

Load limit (car and contents):
Napa Br., between Suisun and Yountville210,000 pounds
Napa Br., between Yountville and Calistoga169,000 pounds
Union Br
Winters Br., between Elmira and Winters210,000 pounds
Winters Br., between Winters and Esparto169,000 pounds
San Ramon Br., between Avon and San Ramon169,000 pounds
San Ramon Br., between San Ramon and Radum210,000 pounds
Schellville and Vallejo Branches210,000 pounds
Union Br

Sugar spur.

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

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

Post	At or Near	Description
	OAKLAN	D PIER-SACRAMENTO
3.5	Oakland PierPo	osts supporting trainshedSide
6.6	Emeryville W	. U. pole line, near Park AveSide
14.5	Richmond A	C&SFRy overhead bridge Overhead
16.0	San Pahlo A	L&SFRy overhead bridge. Overhead and side
16.6	Can Dable W	estward water columnSide
22.1	Di	estwaru water columnside
	Pinole	ock bluff, eastward trackSide
23.7	Herculesn	dustrial Ry overhead bridgeOverhead
24.4	HerculesRo	ock bluff, eastward trackSide
26.7	Oleum	nnel No. 1Overhead and side
27.7	SelbyTu	innel No. 2Overhead and side
31.2	Port CostaW	ater column, eastward trackSide
34.7	Martinez Al	hambra slough bridgeSide tisun Bay bridge, vertical pipesSide
33.3	Martinez Su	isun Bay bridge, vertical pipesSide
37.2	BahiaW	agon bridge, westward trackOverhead
38.0	BahiaW	ater tank spout, eastward trackSide
59.4	ElmiraW	ater column, eastward trackSide
75.8	Davis Si	ater column, eastward trackSide gnal bridge, Woodland lineOverhead
88.5	Washington Sa	cramento River drawbridgeSide
		INTERS BRANCH
63.6	Vacaville III	atis Creek bridgeSide
75.8	Winters Dr	tah Creek bridgeSide
76.0	Winters	ater tank spoutSide
10.0		
	re <u>tur</u> e returna e como e conserva e con-	NAPA BRANCH
46.5	ThomassonSu	isun Creek bridgeSide
46.0	ThomassonTu	innel
67.5	BaleW	ater tank spoutSide
69.5	MapleNa	pa River bridgeSide
		ARTINEZ - TRACY
37.9	AvonPa	checo slough bridgeSide
43.1	Nichols W	agon bridge Overhead and side
43.2	Nichols A'	C&SFRy overhead bridge. Overhead and side
48.8	PittsburgSig	gnal bridgeOverhead
		ELLVILLE BRANCH
40.7	Brozos Dr	awbridge over Napa RiverSide
TU. 1		
	SAN	RAMON BRANCH
42.5	ConcordW	ater tankSide
44.6	HookstonW	alnut Creek bridgeOverhead and side
45.8	Las JuantasSN	Ry trolley wiresOverhead
49.2	Walnut CreekSa	n Řamon Čreek bridgeOverhead and side
57.0	San RamonSa	n Ramon Creek bridge Overhead and side
٦ .	Windows of occupied	passenger cars must be kept closed, and
passe	ngers warned of cl	ose clearance when passing over Brazos
River	drawbridge.	
		With Caution
	SPEED RE	STRICTIONS Not Exceeding
	FOR OTHER THA	AN MAIN TRACKS MPH
m1		
THEO	ugu siumgs, yaru and	other side-tracks, crossovers,
_ tur	nouts and slip switch	nes, except:
Port	Costa and MP 28, on	working track
Shell	mound to Richmond,	on yard track 1
Los I	ledanos, on Camp Sto	oneman spur, except 15
_On	Stoneman wye with	engine backing 10
	MAXIMI	M SPEED PERMITTED
		INC CERTAIN FOUTDMENT

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.

When electro-pneumatic brakes are not functioning on Nos. 101 and 102, and necessary to handle train with automatic air brakes, speed must not exceed 90 MPH in territory where maximum speed is shown as 95 MPH.

Nos. 51 and 52 when handled by P-7-8-10 class engines which have been cross counter-balanced, may run not to exceed 65 MPH in territory where maximum speed of 60 MPH is authorized in Speed Restrictions.

SPEED RESTRICTIONS: Maximum speed of Passenger trains must not exceed 50 MPH and Freight and Mixed trains 35 MPH except as otherwise provided for herein, or by bulletin, train order or fixed signal.

Maximum speed of any train with an engine not shown in Speed Restriction table, 35 MPH, and is further restricted to maximum speed shown for Freight and Mixed trains if less than 35 MPH.

			- 100 - 100	w			NGER	MAHAG	FORWARD		r ()	LIGHT	ENGINE	E RUNNING FO	JRWARD	WITH T	BACKING RAIN OR HT
Page No.	TERRITORY	STREAM- LINER DIESEL POWER UNIT	P-8 (if CGB*) P-7- 10-12 GS Mt	E A P-1-3- 4-5-8- 11 P-8 (if not CCB*)	E. J. C. 1888	AC-4-5- 7-8-9- 10-11- 12 AC-6 (if CCB*)	T-1-8-9- 23-28-31- 36-57-58 Mk-5-6-7- 8-9 F (if CCB*) SP Gas-elec. cars	AM-2	C-2-4-5-8-9- 10-18-19-28- 27-28-29 Mk-2-4 TW F (if not CCB*) AC-1-2-3-6 (if not CCB*)	C-15-17- 32 Mk-10- 11 MM-3	FREIGHT AND MIXED	E P A Mt GS	T-26- 32-37- 40 F (if CCB*)	M T-1-8-9-23-28- 31-36-57-58 C-2-4-5-8-9- 10-18-19-26- 27-28-29 Mk-5-6-7-8-9 F (if not CCB*) SP	TW Mk-2-4- 10-11 AC	E Mk A F T Mt P GS C SP TW	M AC AM-2 MM-3 Gas- elec. cars
2-3-4 5-6-7	Between Oakland Pier and MP 17.3, except. Across freight leads to West Oakland On both leads to West Oakland across main tracks MP 16-MP 17. Between MP 17.3 and MP 27.9, except. MP 21.5-MP 27.9 on tangents MP 21.5-MP 27.9 on curves. Between MP 27.9 and MP 35.3, except. Passing Port Costa station building. *Over grade crossings Martinez city limits, except. *Eastward trains via Suisun Bay bridge. Over Span No. 12 (lift span) Suisun Bay bridge 33.3 Between MP 35.3 and MP 85.5, except. MP 35.3-MP 47.0. MP 47.0-MP 49.0. Over crossings east and west of passenger station Dixon. MP 74.2-MP 77.3. Davis passenger station-MP 76.69 on Woodland line Between MP 85.5 and Sacramento, except. Over SNRy crossing, Mikon. MP 87.8-Sacramento River drawbridge. Over Sacramento River drawbridge.	30 80 60 45 45 45 15 20 30 95 75 45	45 20 15 30 65 50 40 45 40 15 20 30 70 60 45 40 45 40 45 40 45 15 15 15 15 15 15 15 15 15 15 15 15 15	45 20 15 30 65 50 40 45 40 15 20 30 65 60 45 40 45 40 45 10	45 20 15 30 60 50 40 45 40 15 20 30 60 60 45 60 40 45 40 45 40 40 45 40 40 40 40 40 40 40 40 40 40 40 40 40	45 20 15 30 55 50 40 45 40 15 20 30 55 55 45 40 45 40 45 40 45 40 45 40 45 40 55 55 55 55 50 50 50 50 50 50 50 50 50	45 20 15 30 50 50 40 45 40 15 20 30 50 50 45 45 40 45 40 45 40 45 40 45 40 45 40 45 40 40 45 40 40 40 40 40 40 40 40 40 40 40 40 40	45 20 15 30 45 45 40 15 20 30 30 45 40 45 40 45 40 45 40 45 40 40 45 40 40 45 40 40 40 40 40 40 40 40 40 40 40 40 40	40 20 15 30 40 40 40 40 40 15 20 30 40 40 40 40 40 40 40 40 40 40 40 40 40	35 20 15 30 35 35 35 35 35 35 35 35 35 35 35 35 35	30 20 15 30 40 40 35 30 20 15 30 30 40 40 40 35 30 30 40 40 40 40 40 40 40 40 40 40 40 40 40	45 20 15 30 45 45 40 45 40 15 20 30 45 45 45 40 45 40 45 45 45 40 15 20 30 45 45 45 45 45 45 45 45 45 45 45 45 45	40 20 15 30 40 40 40 40 15 20 30 40 40 40 40 40 40 40 40 40 40 40 40 40	35 20 15 30 35 35 35 35 35 36 15 20 30 35 35 35 35 35 35 35	30 20 15 30 30 30 30 30 30 30 30 30 30 30 30 30	30 20 15 30 20 20 20 20 20 20 30 30 20 20 30 20	25 20 15 25 20 20 20 20 20 20 20 20 20 20 20 25 20 20 20 20 20 20 20 20 20 20 20 20 20
10 ,	Between Elmira and Winters. Between Winters and Esparto. Between Suisun-Fairfield and Cordelia. Between Cordelia and Napa Jct. Between Napa Jct. and MP 53.5, except. MP 39.75-MP 40.25. Over highway crossing, Rocktram *MP 45.2-MP 47.1, city limits, Napa. Between MP 53.5 and Calistoga Between Charter Oak and Fulton Sts., St. Helena Between Napa Jct. and Vallejo, except. Over Tennessee St. crossing, Vallejo Between Napa Jct. and Schellville, except. Over Brazos drawbridge, and on Schellville wye. Between Union and West Napa.		25 40 35	25 40 35 	25 40 35 	40 35	25 40 35 	25 40 35 	25 40 35	25 35 35 25 10	25 15 25 25 25 15 10 25 20 20 25 15 10 8	25 30 35 	25 30 35	25 30 35 35 	25 30 30 30 25 10	20 15 20 15 15 15 15 15 15 15 15 15 15 15 15 15	15 20 20 15 15 15 10 15 15 15 15 15 15 15 15 15 15 15 15 15
8-9	Martinez to Mococo on eastward track. Mococo to Martinez on westward track. Between Mococo and MP 41.0 Between MP 41.0 and MP 80.7, except. *Over Railroad Ave., Pittsburg.		30	45 30 60 65 25	60	45 30 55 55 25	45 30 50 50 25	45 30 45 45 25	40 30 40 40 25	35 30 35 35 25	30 20 40 40 25	45 30 45 45 25	40 30 40 40 25	35 30 35 35 25	30 30 30 30 30 25	20 20 20 30 25	20 20 20 25 25
8-9-11 14-15 18-19	Between yard limit signs at Tracy on Martinez, Niles and Los Banos lines, and overpass east of puzzle switch on Lathrop line, except		45	45	45	45	45	45	40	35	30	45	40	35	30	30	25
8	Over bridges 44.64, 49.22 and 56.99.		10 	10 15 10	10 15 10	10	10 15 10	10 15 10	10 15 10	10 15 10	10 15 10	10 15 10	10 15 10	10 15 10	10 	10 15 10	10 15 10

RATING OF ENGINES—In Ms of 1000 lbs. Back of Tender.

	KATING OF ENGINES—III	1 10		JACK OI I	-				
NOMINAL CLASS	ENGINE NUMBERS	Oakland and Martinez Martinez and Tracy	Martinez to Bridge Summil	Bridge Summit to Sacramento	Sacramento to Martinez	Suisun-Fairfield to Napa Jot.	Napa Jct. to Suisun-Fairfield	Napa Jct. and Larkmead	Larkmead and Calistoga Union and West Napa
DES-1, 2, 3, 4, 5, 6, 7 DES-100 to 107 E-23 M-4 M-6, 8 M-9, 11 M-11	7 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.	4500 3350 4450 5250	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.	2750 5500 4800 6000 6150	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	6100 6500 6800 6800	2050 2150 2400 2550 2800 2850 3050 2250 2900	4300 4300 4750 5350 5700 5900 5900 4550 6000	4000 4000 4400 4950 5450 5550 5550 4350 5750	1150 1200 1350 1500 1600 1300	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 2926 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
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	pranches.	NOTE 2371 not 1 to engines , 3213, 3214 7, 3241, 324 6, 3268, 3271 Napa Jct. 2 to operate (-2, 4, 5, 60	permitted o	
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	Bridge 45. (C) Mk 7,8, operate be (D) P-1,3,4 not permi	. 62. . 9 Class engi eyond Napa l, 5 and Mk- itted to oper	ines not pern River Bridg 10, 11 Class rate beyond	nitted to e 45.62. engines Yount-
Underloaded Cars	Less than 45 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

ENGINES FOR WHICH NO RATING IS SHOWN IN THE RATING OF ENGINES TABLE WILL NOT BE PERMITTED TO OPERATE IN THAT TERRITORY UNLESS AUTHORIZED BY SUPERINTENDENT.

A CLIFF

MARTINEZ SUBDIVISION

RATING OF ENGINES—In Ms of 1000 lbs. Back of Tender.

NOMINAL CLASS	ENGINE NUMBERS	Napa Jct. to Schellville Napa Jct. to Vallejo San Ramon to Radum	Scheliville to Napa Jct.	Vallejo to Napa Jct. Elmira to Winters	Winters to Elmira	Winters and Esparto	Radum to San Ramon	Avon to San Ramon	San Ramon 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	4000 4950 	1890 2500 2970 3100 3250	1230 1680 2000 2100 2200	404 530
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 	450 327 480
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 6330	1990 2090 2180 2490 2660 2150	2240 2460 	2520 2770 		2780 2910 3050 3460 3690 3000		•••
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 1950 1540 1450 2150	780 504 620 600 480 460 664
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	4700 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.						NOT es. (371 not es. (3, 8, 9 and M except engine 1,3213,3214, 1241, 3247, 3214, 1268, 3271, 32 to operate 1 , San Ramon inters.	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.					3266, 3 mitted Vallejo and W	to operate to San Ramon inters.	72 and 327 petween Fl and Radu	14 not posden
Allowance for Empty and Inderloaded Cars	Less than 45 Ms							\$7.3 5 N	

ENGINES FOR WHICH NO RATING IS SHOWN IN THE RATING OF ENGINES TABLE WILL NOT BE PERMITTED TO OPERATE IN THAT TERRITORY UNLESS AUTHORIZED BY SUPERINTENDENT.

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, — — — — 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. Ingle Trains on Riverdale line.

RULE 83 (A). Only trains originating or terminating will register at Los Banos, Ingle and Fresno yard. Only extra trains will register at Kerman,

RULE 83 (B). Extra trains may register by ticket at Kerman.

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

West M	IP	F	East MP
	Tracy		85.64
69.19	"	(Niles-Lathrop line)	74.37
139.61	Los Ban	ios	142.01
192.46	Kerman	l	194.53
206.04	Fresno	(Pratton-Selma line)	210.81
208.44	4	(Biola-Exeter line)	208.15
199.07	"	(Merced-Clovis line)	209.60

Fresno. Trains moving between Tulare St. and Merced St. (east and west of passenger station) must receive proceed signal from yardman (green flag or green light) between those points.

Westward trains via Pratton line must receive proceed signal

from yardman (green flag or green light) before passing Divisadero Street.

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.

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.

Kerman Biola line, for Pratton line.

Fresno Yard End double track, for eastward 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.

RULE 221. Fresno yard is a train-order office for trains originating only.

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 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 leads.

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 au-

thorized 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 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.

MISCELLANEOUS

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	Tracy—Brewery; Holly Sugar spur.
" "	Patterson—Patterson Ranch spur.
"	Crows Landing—Yancey Lbr. spur.
4	Newman—Golden State Creamery spur; Lumber Co. spur.
"	Gustine—California Milk spur and Carnation Co. loading tracks.
	Los Banos — Builders Lbr. spur:
	Union Oil spur; Golden State Creamery spur.

and Eng. 2371..... Los Banos—Wye. LOCATION OF OVERHEAD AND SIDE STRUCTURES NOT

PIVIA	DARD	CLEAR	WINCE O	N MAIN	INACK	AND 5	MINING
iile							
ost A	At or N	ear		Des	cription		
'ost A	At or N	ear		Des	cription		

TRACY - FRESNO 140.2 Los Banos.....Warehouse opposite east leg of wye....Side SPEED RESTRICTIONS: Maximum speed of Passenger trains must not exceed 50 MPH and Freight and Mixed trains 35 MPH except as otherwise provided for herein, or by bulletin, train order or fixed signal.

Maximum speed of any train with an engine not shown in Speed Restriction table, 35 MPH, and is further restricted to maximum speed shown for Freight and Mixed trains if less than 35 MPH.

				WI	TH TRAI	N — ENGIN	E RUN	NING FORWA	RD		LIGH	ITENGIN	E RUNNING FO	RWARD		BACKIN
					P	ASSENG	ER								WITH	TRAIN O
Page No.		CCB*)	E A P-1-3- 4-5-6- 11 P-8 (if not CCB*)	-26 -32 -37 -40	AC-4-5- 7-8-9- 10-11- 12 AC-6 (if CCB*)	T-1-8-9- 23-28-31- 36-57-58 Mk-5-6-7- 8-9 F (if CCB*) SP Gas-elec. cars	AM-2	C-2-4-5-8-9- 10-18-19-26- 27-28-29 Mk-2-4 TW F (if not CCB*) AC-1-2-3-6 (if not CCB*)	C-15-17- 32 Mk-10- 11 MM-3	FREIGHT AND MIXED	E P A Mt GS	T-26- 32-37- 40 F (if CGB*)	M T-1-8-9-23-28- 31-36-57-58 C-2-4-5-8-9- 10-18-19-26- 27-28-29 Mk-5-6-7-8-9 F (if not CCB*) SP	17-32 TW Mk-2-4- 10-11 AC AM-2	E Mk A F T Mt P GS C SP TW	M AC AM-2 MM-3 Gas- elec. cars
8-9-11 14-15 18-19	Between yard limit signs at Tracy on Martinez, Niles and Los Banos lines, and overpass east of puzzle switch on Lathrop line, except. Between C St. crossing on Martinez and Niles line and end double track on Lathrop line and MP 83 on Los Banos line	A 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	45	45	45	45	45	40	35	30	45	40	35	30	30	25
	double track on Lathrop line and MP 83 on Los Banos line	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
11-12	Between Tracy and Fresno, except. Over WPRR crossing, Lyoth. Within Los Banos yard limits. *Along or across street crossings, Los Banos. Between Kerman and Biola Jct., except. Through junction switch and crossover to Biola line.	55 40 45 20 30 25	55 40 45 20 30 25	55 40 45 20 30 25	55 40 45 20 30 25	50 40 45 20 30 25	45 40 45 20 30 25	40 40 40 20 30 25	35 35 35 20 30 25	40 25 30 20 30 25	45 40 45 12 30 25	40 40 40 12 30 25	35 35 35 12 30 25	30 30 30 12 30 25	30 20 30 12 20 20	25 20 25 12 20 20

*Regulated by city ordinance.

SPEED RESTRICTIONS UNLESS OTHERWISE FURTHER RESTRICTED

MAXIMUM SPEED PERMITTED CERTAIN ENGINES

Class of Engine	Station—Territory—Track or Structure	MPH
GS-6	Between MP 93.5 and MP 98.0. Los Banos	
	line Between MP 108.0 and MP 120.0, Los Banos line	EΩ
	Between MP 126.9 and MP 131.3, Los	-^
GS-6	Between MP 176.0 and MP 177.0, Los Banos line	

SPEED RESTRICTIONS With Caution Not Exceeding MPH

10

Through sidings,	yard and other	side-tracks.	crossovers.
turnouts and s	lip-switches		

RATING OF ENGINES—In Ms of 1000 lbs. Back of Tender.

NOMINAL CLASS	ENGINE NUMBERS	Tracy and Fresno Kerman and Biola Jct.
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
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-8, 10 P-11 P-12	\$\ \begin{array}{cccccccccccccccccccccccccccccccccccc	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	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 10200 12950
Allowance for Empty and Underloaded Cars	(Less than 45 Ms. 45 Ms to 55 Ms. (More than 55 Ms.	6 3 0

ENGINES FOR WHICH NO RATING IS SHOWN IN THE RATING OF ENGINES TABLE WILL NOT BE PERMITTED TO OPERATE IN THAT TERRITORY UNLESS AUTHORIZED BY SUPERINTENDENT.

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

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 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.

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.

RULE 83. Sections of No. 60 having received their authority at Stockton, or east of Stockton, need not ascertain that preceding sections of the same schedule have left Lathrop.

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 and Lath-

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

Only extra trains originating or terminating will register at Oakdale.

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:

LathropAll trains on Lathrop Subdivision and Merced Subdivision trains originating or terminating using west leg of

wve. 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	ſΡ		East MP
80.70 69.19	Tracy	(Martinez-Los Banos line)(Niles-Lathrop line)	85.64 74.37
80.56	Lathrop	(Tracy-Stockton line)(Merced line)	. 83.04
85.07	Stockton	(Oakdale line)	. 93.72
120.23	Oakdale.	······································	122.92
101.57	Lodi	(Victor line)	104.25 104.45
111.10	Galt	(Ione line)	113.21
85.51	Sacramen	to	95.35
131.60	***	(Stockton line)	136.33
129.04	Valley Sp	ring	130.50
141.94 138.28	Kentucky	HouseE	nd track

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

92.0. LodiCCTCo., crossing of Brighton line at MP 103.2.
LodiCCTCo., crossing of Woodbridge line. Stop clear of the following crossings, then proceed if no move-

ment approaching on intersecting line: LodiCCTCo., crossing of yard tracks west of sta-

tion building. Roma......CCTCo., crossing of Valley Spring line. Oakdale......AT&SFRy, crossing of Oakdale Branch. MP 116.7 on

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

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.

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.....Ione line, 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 and to be used by westward trains.

Fresno siding leaves eastward main track at extreme west end of Lathrop yard and enters Merced Subdivision main track at Signal 932 and to be used by trains to or from Merced Subdivision.

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 Stock-Light will not be displayed in train-order signals on Oakdale

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.

and Lodi Branches, except when train-order operator is on duty.

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.

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

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 crossing.

Speed of 25 MPH must not be exceeded through switches of East zone and 15 MPH through switches of West zone.

French Camp Tower - Tidewater Southern Ry. crossing 1.6 miles east of French Camp. Signal operator on duty 6:00 PM to 10:00 PM and 11:00 PM to 3:00 AM daily except Sundays and holidays days. 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, 0 — —.
Old siding, — — 0 0.
Gauns track, 0 — 0.
Houser-Haines track, 0 0 — 0.
One short sound of tower siren (0) will be signal for all train movements to stop.

Two short sounds repeated several times (00 00 00) will be signal for yard and train crews to clear the plant at once.

Stockton Tower No. 3—Western Pacific R. R. 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, -- 0 -

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.

RULE 763. Revised to read as follows: "Train indicators, signals and markers must be displayed through centralized traffic control limits. Rule S-17, Fig. 7 of Rule 19, and Rule 10 (A) will not apply an centralled siding?" and Rule 19 (A) will not apply on controlled sidings.

GENERAL REGULATIONS

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 occupied.

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 Santa Fe wye at Oakdale, operating over Sierra Railway main track from Oakdale to Santa Fe Junction, being governed by current Sierra Railway timetable (copy may be procured from SP agent), and will procure clearance from Sierra Railway operator when on duty, before leaving Oakdale; and be governed by Special Rule No. 3, Sierra Railway timetable reading as

"All trains will approach yard limits of stations shown with trains under full control, expecting to find main track obstructed. This does not give switching engines right over any train."

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

10. Engines listed must not operate on tracks shown below:

Restricted Tracks

Class of Engine Mk, Mt, GS, F, SP, AM, MM, AC,
P, and Eng. 2371......Tracy—Brewery; Holly Sugar spur.
Mt-2, GS, F, SP, AM, MM, AC,
and Eng. 2371......Lathrop—Tracks leading to Lend-Lease. Mk, Mt, GS, F, SP, AM, MM, AC,

P, and Eng. 2371..... Lathrop—Fresno No. 2 track; beet track; slop track.

Stockton—Tracks 2 and 3 (except to pick up or set out); west end of tracks 2, 3 and 4 in classification yard.

GS, F, SP, AM, MM, AC.....Stockton—Turntable lead.
Mk, Mt, GS, F, SP, AM, MM, AC,
P, and Eng. 2371.....Lodi—Tracks 5 and 6; crossover between tracks 3 and 5; west end of track 5 to Walnut St.

Mt-2, GS, F, SP, AM, MM, AC, and Eng. 2371.....Lodi—Wye (no restriction on west end of wye between siding and

oil column). .. Urgon-Spur.

alt — Crossover between controlled siding and oil track; wye.

Mk, Mt, GS, F, SP, AM, MM, AC, P, and Eng. 2371.......Elk Grove — Elk Grove Winery ...

Florin—Florin Fruit Growers spur. Polk—Tracks 1 and 2, U. S. Army Signal Depot.

Earl Fruit track Lodi must not be used beyond 500 ft. from east end and 775 ft. from west end.
Load limit (car and contents):

Seventh Streets, Sacramento, without receiving signal from switch-tender to proceed (green flag by day and green light by night) and must move with caution between Sacramento River bridge and Seventh Street.

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

At or Near	Description
Ī	RACY - BRIGHTON
Stockton Wat	ter column, westward trackSide
Lodi Mol	kelumne River bridgeSide
	ter tank spoutSide
1779 1981 1982 1983	LODI BRANCH
LockefordBrid	ck platform at Locke warehouseSide
	IONE BRANCH
Carbondale Clay	7 shedSide
	er Creek bridgeOverhead and side
	Stockton Wat Lodi Mol Florin Wat Lockeford Brid Carbondale Clay

SPEED RESTRICTIONS UNLESS OTHERWISE FURTHER RESTRICTED MAXIMUM SPEED PERMITTED CERTAIN ENGINES

Class of Engine	Station—Territory— Track or Structure	мрн
GS, F, AC, Mt-2	Bridge 76.57, on Tracy-Lathrop line	25
GS, F, AC, Mt-2	Bridge 104.38, Mokelumne River	25
GS, F, AC, Mt-2	Bridge 119.14, Consumnes River	25
GS-6	Westward track, MP 93.9 to MP 92.8 on	
the State of the S	Tracy-Brighton line	50

	SPEED	REST	RICTIO	NS	With Caution Not Exceeding
FOR				TRACKS	MPH
turnouts Through co	and slip-s ntrolled si	witches, dings in	, except 1 C.T.C.	tracks, crosso	10 25

★Regulated by city ordinance.

MAXIMUM SPEED PERMITTED WHEN HANDLING CERTAIN EQUIPMENT

Nos. 51 and 52 when handled by P-7-8-10 class engines which have been cross counter-balanced may run not to exceed 65 MPH in territory where maximum speed of 60 MPH is authorized in Speed Restrictions table.

SPEED RESTRICTIONS: Maximum speed of Passenger trains must not exceed 50 MPH and Freight and Mixed trains 35 MPH except as otherwise provided for herein, or by bulletin, train order or fixed signal.

Maximum speed of any train with an engine not shown in Speed Restriction table, 35 MPH, and is further restricted to maximum speed shown for Freight and Mixed trains if less than 35 MPH.

					P	ASSENG	ER						1	1	WITH T	RAIN O
Page No.		P-8 (if CCB*) P-7- 10-12 GS Mt	E A P-1-3- 4-5-6- 11 P-8 (if not CCB*)	T -26 -32 -37 -40	AC-4-5- 7-8-9- 10-11- 12 AC-6 (if CCB*)	T-1-8-9- 23-28-31- 36-57-58 Mk-5-8-7- 8-9 F (if CCB*) SP Gas-elec. cars		C-2-4-6-8-9- 10-18-19-26- 27-28-29 Mk-2-4 TW F (if not CCB*) AC-1-2-3-6 (if not CCB*)	C-15-17- 32 Mk-10- 11 MM-3	FREIGHT AND MIXED	E P A Mt GS	T-26- 32-37- 40 F (if CCB*)	27-28-29	17-32 TW Mk-2-4- 10-11	E Mk A F T Mt P GS C SP	M AC AM-2 MM-3 Gas- elec. cars
-9-11 4-15 8-19	Between yard limit signs at Tracy on Martinez, Niles and Los Banos lines, and overpass east of puzzle switch on Lathrop line, except. Between C St. crossing on Martinez and Niles line and end double track on Lathrop line and MP 83 on Los Banos line.	45	45 10	45 10	45 10	45 10	45 10	40 10	35 10	30 10	45 10	40 10	35 10	30 10	30 10	25 10
14-15 *	Between Tracy and Lathrop, except. Over San Joaquin River Drawbridge. Between Lathrop and French Camp Tower. Between French Camp Tower and Stockton Tower No. 4, except *MP 88.7 - MP 92.0 (city limits), Stockton. Between Stockton Tower No. 4 and end double track, MP 95.0. Through turnout, end double track, MP 95.0. Between MP 95.0 and MP 102.0. Between MP 102.0 and MP 104.0 Between MP 104.0 and MP 131.7. Between MP 131.7 and Brighton.	20 55 25 65 30 65 40	60 40 55 45 20 55 25 65 30 65 40	60 40 55 45 20 55 25 60 30 60 40	55 40 55 45 20 55 25 55 30 55 40	50 40 50 45 20 50 25 50 30 50 40	45 40 45 45 20 45 25 45 30 45 40	40 40 40 40 20 40 25 40 30 40 40	35 35 35 20 35 25 35 30 35 35	40 40 40 30 20 35 20 35 30 35 35	45 40 45 45 20 45 25 45 30 45 40	40 40 40 20 40 25 40 30 40 40	35 35 35 35 20 35 25 35 35 35 35 35	30 30 30 30 20 30 25 30 30 30 30	30 20 30 30 20 30 20 30 30 30 30	25 20 25 25 20 25 20 25 25 25 25 25
13	Between Galt and Ione, except									30 8 10 10 25 20					20 15 15 20 8 10 10 15 15 15 15	20 15 15 20 8 10 10 15 15 15
6-17	Between Lathrop, on west leg of wye and SA signal east of WPRR Crossing. On east leg of outer wye, Lathrop. Between MP 93.9 and Biola Jct., except. MP 113.6-MP 130.5; MP 160.3-MP 194.6. West end No. 2 siding - East end No. 3 siding, Modesto. Over TSRy crossing, MP 114.7. Signal 1252 - Signal 1263, Turlock. Entering intersections at Olive St., Marshall St., and Main St., Turlock. Over Merced River bridge 134.84, except. with GS, F, AC, Mt-2 Class engines. Signal 1498 - Signal 1513, Merced. Fresno River bridge Madera - East end siding Madera. Between west interlocking limit Biola Jct. and Fresno, except.	30 15 65 60 45 40 45 30 50 25	30 15 65 60 45 40 45 30 50 45 45	30 15 55 55 45 40 45 30 50 45 45 45	30 15 55 55 45 40 45 30 25 45 45 45	30 15 50 50 45 40 45 30 50 25 45 45	30 15 45 45 45 40 45 30 45 45 45	30 15 40 40 40 40 40 40 25 40 40 40	30 15 35 35 35 35 35 35 35 35 35 35	20 15 40 40 30 25 30 35 25 30 35 25 30	30 15 45 40 40 40 40 30 45 25 40 40	30 15 40 40 40 40 40 40 40 40 40 40 40 40 40	30 15 35 35 35 35 35 35 35 35 35 35 35 35 35	30 15 30 30 30 30 30 30 30 30 30 30 30 30 30	20 15 30 30 30 30 30 30 30 30 30 30 25 30	20 15 25 25 25 25 25 25 25 25 25 25 25 25 25
18	Over switch end double track MP 201.9 Fresno Yard eastward *Along or across street crossings, Fresno. Between Berenda and Daulton. Between Chowchilla and Ash. Between Ash and Dairyland.	25 20	25 20	25 20 	25 20 	25 20 	25 20 	25 20 	25 20 	25 20 20 20 20 10	25 12 	25 12 	25 12	25 12 	20 12 15 20 10	20 12 15 20 10

LATHROP SUBDIVISION

RATING OF ENGINES—In Ms of 1000 lbs. Back of Tender.

NOMINAL CLASS	ENGINE NUMBERS	Tracy and Brighton	Stockton and Montpellier	Lodi to Wallace Toyon to Macnider	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	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-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	3350 4000 	3850 4200 					
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	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	1350(B) 1550(C) 1350 1350 1300	2550(B) 2850(C) 2430 2350	3800(B) 4300(C) 3650 3500	7500(B) 8400(C) 7100 6800	8400(B 9450(C 8000 7650
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				NOTES: (A) Engine 2371 not permitted on these branches. (B) Applies to Engines 3201, 3203 to 3206, 3211, 3213, 3214, 3224, 3227, 3229, 3236 and 3237 only.			
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		20 pr		and 3237 only. (C) Applies to Engines 3241, 3247, 3251, 3: 3255, 3259, 3266, 3268, 3271, 3272 and 3 only.			351, 3253, and 3274
Allowance for Empty and Underloaded Cars	(Less than 45 Ms	6 3 0	6 3 0						

ENGINES FOR WHICH NO RATING IS SHOWN IN THE RATING OF ENGINES TABLE WILL NOT BE PERMITTED TO OPERATE IN THAT TERRITORY UNLESS AUTHORIZED BY SUPERINTENDENT.

RATING OF ENGINES—In Ms of 1000 lbs. Back of Tender.

NOMINAL CLASS	ENGINE NUMBERS	Galt to Edwin	Edwin to lone	lone to Edwin	Edwin to Galt	Lathrop and Fresno	Chowchilla 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.	1190 1620 1900 2040 2120	1190 1620	4040 5300	4040 5300 6200 6550 6820	3200 4500 3350 4450 5250 5500 5700	3990 5250	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 4750	1750 1240 2520 2200 2790 2830(A) 1880 2530 2280	4500 3270 6500 5730 7170 7300(4 4800 6500 5880
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.	2430 1570 1950 2270 2360 1870 1500 1400 2060	1570 1400	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 3036, 3052 and 3057 3000 to 3003 3201 to 3240 3241 to 3277 3300 to 3324 3295 3297 and 3298	2720(B) 3100(C) 2650 2550	1 200 FIS 1220 FIS 1220 FIS 1 200 FIS		8800(B) 10000(C) 8450 8100	3900 3900 4800 7650 8450 9200 7100 6800		3430(B) 3900(C) 3320 3190	8800(10000(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	NOTES: (A) Engine 2371 not pe on these branches. (B) Applies to Engines 320 to 3206, 3211, 3213, 321-3229, 3226, and 322 (C) Applies to Engines 324-3251, 3253, 3255, 3255, 326 3271, 3272 and 3274 only		
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			3241, 324 9, 3266, 326 l only.
Allowance for Empty and Underloaded Cars	(Less than 45 Ms	1200 3				6 3 0			

ENGINES FOR WHICH NO RATING IS SHOWN IN THE RATING OF ENGINES TABLE WILL NOT BE PERMITTED TO OPERATE IN THAT TERRITORY UNLESS AUTHORIZED BY SUPERINTENDENT.

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, ---- will be 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 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.

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.

RULE 83. Sections of No. 60 having received their authority at Stockton, or east of Stockton, need not ascertain that preceding sections of the same schedule have left Lathrop.

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).

After receiving check of register for westward first-class train leaving Fresno, westward inferior trains may leave Fresno Yard not less than 15 minutes after registered departure time of such first-class train from Fresno and may run ahead of such first-class train from Fresno Yard to Notarb. A first-class train passing Fresno Yard 15 minutes or more after registered departure time from Fresno will run expecting to find a train running ahead Fresno Yard to Notarb.

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

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.

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

West M	IP		East MP
80.56	Lathrop "	(Tracy-Stockton line)(Merced line)	
109.94	Modesto		
124.98	Turlock		127 32
149.55	Merced.		151.42
182.67	Madera.		185.38
206.04	Fresno	(Pratton-Selma line)	210.81
208.44	- 66	(Biola-Exeter line)	208 15
199.07	n Tariffe States	(Merced-Clovis line)	209.60

Fresno. Trains moving between Tulare St. and Merced St. (east and west of passenger station) must receive proceed signal from yardman (green flag or green light) between those points.

Westward trains via Pratton line must receive proceed signal

from yardman (green flag or green light) before passing Divisadero Street.

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

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 eastward track.

Fresno Pratton line, for eastward main track.

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

Fresno siding leaves eastward main track at extreme west end of Lathrop yard and enters Merced Subdivision main track at Signal 932 and to be used by trains to or from Merced Subdivision.

Modesto. Siding No. 1 leaves main track 1740 feet east of MP 110 and enters main track 1800 feet east of MP 111 and to be used by eastward trains.

Siding No. 2 leaves main track 2000 feet east of MP 111 and enters main track 2243 feet east of MP 112, and must not be blocked without the authority of the conductor of the Modesto switcher crew while that crew is on duty at Modesto unless otherwise provided.

Siding No. 3 leaves main track 3432 feet east of MP 113 and

enters main track 2112 feet east of MP 112 and to be used by west-

ward trains.

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. Fresno Yard is train-order office for trains originating only.

Trains must obtain clearance before leaving Merced and 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

crossing. Speed of 25 MPH must not be exceeded through switches of East zone and 15 MPH through switches of West zone.

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 move-

ment to Biola line.

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.

MISCELLANEOUS

1. When stopping to take water at Modesto, eastward freight trains leave train clear of L St., and westward trains clear of G St. 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 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.

Engines over 163,000 pounds on drivers

.Turlock — Track opposite peanut shed.

Atwater-Industry track north of highway.

Mk, Mt, GS, F, SP, AM, MM, AC, P, and Eng. 2371..... Livingston—Spur to Shed 101.

Engines over 135,000 pounds on drivers

.Minturn—House track. Berenda—Corral track.

Engines 2371, 2400, 2403 to 2407 inc., 2415, P-6, 7, 8, 10, 11, 12, 14, Mt, GS, F, SP, AM, MM, AC, and Mk over 210,000

pounds on drivers......Madera—Winery spur.

Load limit (car and contents): Berenda and Chowchilla Branches....210,000 pounds

The state of the s

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

Mile Post

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 UNLESS OTHERWISE FURTHER RESTRICTED MAXIMUM SPEED PERMITTED CERTAIN ENGINES

Class of Engine	Station—Territory— Track or Structure	MPH
GS, F, AC, Mt-2	Bridge 113.92, Tuolumne River	25 25*
GS, F, AC, Mt-2	Bridge 194.52, San Joaquin River west of Herndon	25*

*Two engines of these classes must not operate double-headed over these structures.

FOR		RESTRICTIONS THAN MAIN TRACKS	Not Exceeding MPH
turnouts	and slip-s	l and other side-tracks, crosso witches, except:	10

to generally growth white the control has a control of the con-

garjat kan ga kangan ka salamat berna mangalah kanala sanas dalah kanala sa Configuration of the properties.

The disjustation of the properties at Both RO will deploy are

Company Managhan India

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, —————— will be indication 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 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 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.

Only extra trains will register at Niles Tower and Niles. Trains originating or terminating San Jose yard will register at Santa Clara.

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

Elmhurst.....Regular trains,
NilesAll trains,
Niles Tower...All trains,
Redwood Jct...All trains,
Newark....Nos. 407 and 406.

Santa Clara All trains at Santa Clara Tower.

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 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	MP	E.	ast MP
	Oakland	(Martinez line)	17.35
		(Niles line)	15.82
	• •	(Alvarado line)	14.01
80.70	Tracy	(Martinez-Los Banos line)	85.64
69.19		(Niles-Lathrop line)	74.37
24.44	Redwood Jct.	(San Mateo-Newark line)	28.22
	16 16	(Palo Alto line)	27.17
35.36	Newark	(Centerville-Redwood Jct. line)	38.51
28.79	"	(Alvarado-Santa Clara line)	32.25
41.29	Niles	(Tracy-Redwood Jct. line)	30.67
27.37	- 66	(Hayward-Milpitas line)	30.95
41.70	Eliot	·····	45.40
		(San Ramon line)	63.25
45.89	Livermore		48.66
43.47	San Jose	(Palo Alto-Coyote line)	56.00
44.85	7.77	(Milpitas line)	00.00
43.74		(Alviso line)	

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 Elm-hurst.

RULE 98. Railroad crossings at grade not interlocked:

Stop not less than ten feet, nor more than fifty feet from the following crossings and send flagman ahead in each direction on intersecting track sufficient distance to stop any movement in either direction, after which movement may be made over crossing:

Oakland. WPRR crossing of yard track at 3rd and Fallon Sts.

Oakland. WPRR crossing of yard track at 42nd Ave.

Stop not less than ten feet, nor more than fifty feet from the following crossings and send flagman ahead who must ascertain that no movement is approaching on intersecting line before giving signal to proceed:

Oakland. WPRR crossing on Stonehurst Branch.

Stop clear of derails at the following crossings and send flagman ahead who must ascertain that no movement is approaching on intersecting line, then operate derail lever to close derails before giving signal to proceed. Restore derails after each movement over crossing:

East Oakland. WPRR crossing of Kaiser lead near 7th Ave. Stop clear of the following crossings, then proceed if no movement approaching on intersecting line:

Alameda. Belt Line Ry, crossing yard track between Alameda & Pacific Ave.

Alameda. Belt Line Ry, crossing yard track between Eagle Ave. & Tynan St.

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:

Alameda. A.A.F. In-transit Depot, Government Ry crossing of yard track leading to United Engineering Co.

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

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.
Whistle signals: For Alvarado line, o — -

For Niles line, — o —. For Stonehurst line, o — o.

Niles Niles 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
Signal 287.

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

Tracy...... 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.

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

inating only.

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,

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.

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		Westward Signals
P-526	Spring switch, Shinn	P-423 P-543

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 must not be exceeded while passing over them in facing movement, or in trailing through them:

		M	PH
Location	Normal Position	Facing	Trailing
Redwood JctEnd double trac	kWestward track.	. 25	25
Shinn East end siding.	Main track	. 15	15

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.

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

Three the adult a very and added a design and a commercial to the commercial to the

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.

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 San Jose, 0 — —
To Centerville, — 0 —.
To Niles, 0 — 0.

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, —.

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

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 limits.

GENERAL REGULATIONS

RULE 824. Tracy. Before engine is detached from train from Niles line not less than three hand brakes must be set on cut west of C St., and four 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.

MISCELLANEOUS

P, and Eng. 2371.................Ravenswood—Spurs.
Newark—Hillard, Leslie and
Morton Salt spurs; Westvaco Chemical spur.

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

Mile Post	At or Near	Description
		REDWOOD JCT TRACY
28.9	Henderson	.Highway underpassSide
32.5	Dumbarton	San Francisco Bay drawbridgeSide
34.5	Dumbarton	Newark Slough drawbridgeSide
42.9	Niles Jct	Highway underpassSide
30.8	Dresser	Alameda Creek bridgeSide
31.5	Farwell	Alameda Creek bridgeOverhead and side
38.3	Pleasanton	WPRR overhead bridge Overhead
55.4	Altamont	.Highway overhead bridgeOverhead and side
57.9	Altamont	.Tunnel
••••		ELMHURST - NILES
18.2	Loronzo	San Lorenzo Creek bridge. Overhead and side
24.2	Liolyown	WPRR overhead bridgeOverhead
29.4	Nilog	Highway underpassSide
49.¥		
		LAND PIER-SANTA CLARA
_3.5	Qakland Pier.	Posts supporting trainshedSide
36.2	Drawbridge	.Warm Springs Slough bridgeSide
36.8		.Coyote Creek bridgeSide
		NILES-SAN JOSE YARD
29.4	Niles Tower	.Street underpassSide

SPEED RESTRICTIONS UNLESS OTHERWISE FURTHER RESTRICTED MAXIMUM SPEED PERMITTED CERTAIN ENGINES

Class of Engine	Station—Territory— Track or Structure	MPH
GS, F, AC, Mt-2Bridge	31.56, Alameda Creek, west o	f . 25*
GS, F, AC, Mt-2Bridge GS, F, AC, Mt-2Bridge	36.87, Sunol Creek, east of Suno 18.16, San Lorenzo Creek, Nile	S
line		. 25*

*Two engines of these classes must not operate double-headed over these structures.

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

turnouts and slip-switches, except:....

Ravenswood, on spur.....

	With Caution
SPEED RESTRICTIONS	Not Exceeding
FOR OTHER THAN MAIN TRACKS	MPH
Through sidings, yard and other side-tracks, crossov	ers,

SPEED RESTRICTIONS: Maximum speed of Passenger trains must not exceed 50 MPH and Freight and Mixed trains 35 MPH except as otherwise provided for herein, or by bulletin, train order or fixed signal.

Maximum speed of any train with an engine not shown in Speed Restriction table, 35 MPH, and is further restricted to maximum speed shown for Freight and Mixed trains if less than 35 MPH.

						ASSENG		NING FORWA	HD	<u> </u>	LIGHT ENGINE RUNNING FO			LIGHT	LIGHT ENGINE RUNNING FORWAR			LIGHT ENGINE RUNNING FOR				BACKIN RAIN OF BHT
Page No.	TERRITORY	P-8 (if CGB*) P-7- 10-12 GS Mt	E A P-1-3- 4-5-6- 11 P-8 (if not CGB*)	T -26 -32 -37 -40	AC-4-5- 7-8-9- 10-11- 12 AC-6 (if CCB*)		M AM-2	C-2-4-5-8-9- 10-18-19-28- 27-28-29 TW Mk-2-4 F (if not CCB*) AC-1-2-3-8 (if not CCB*)	C-15-17- 32 Mk-10- 11 MM-3		E P A Mt GS	T-26- 32-37- 40 F (if CCB*)	M T-1-8-9-23-28- 31-36-57-58 C-2-4-5-8-9- 10-18-19-26- 27-28-29 Mk-5-6-7-8-9 F (if not CCB*) SP	TW Mk-2-4- 10-11 AC AM-2	E Mk A F T Mt P GS C SP	M AC AM-2 MM-3 Gas- elec. cars						
18-19	Between Redwood Jct. and Niles Jct., except Between MP 31.51 and MP 33.0, San Francisco Bay Bridge. Over Newark Slough Drawbridge and approaches, MP 34.53 Between Niles Jct. and Tracy, except Niles Jct MP 37.1. Within Eliot yard limits on Niles JctTracy line. *MP 46.1 - MP 47.6 (city limits) Livermore MP 52.0 - MP 63.0	25	50 30 20 35 25 20 25 25 25	50 30 20 35 25 20 25 25 25	50 30 20 35 25 20 25 25 25	50 30 20 35 25 20 25 25 25	45 30 20 35 25 20 25 25 25	40 30 20 35 25 20 25 25 25	35 30 20 35 25 20 25 25 25	40 30 20 35 25 20 20 20	45 30 20 35 25 20 20 25	40 30 20 35 25 20 20 20 25	35 30 20 35 25 20 20 20 25	30 30 20 30 25 20 20 25	20 20 20 20 20 20 20 20 20	20 20 20 20 20 20 20 20 20 20						
3-9-11 14-15 18-19	Between yard limit signs at Tracy on Martinez, Niles and Los Banos lines, and overpass east of puzzle switch on Lathrop line, except. Between C St. crossing on Martinez and Niles line and end double track on Lathrop line and MP 83 on Los Banos line. Between Niles and San Jose Yard, except. With GS, Mt, AC or F class engines. Passing Niles Tower, and within San Jose yard limits	,,,	45 10 40 	45 10 40 	45 10 40 15 15	45 10 40 15 15	45 10 40 	40 10 40 15 15	35 10 35 15	30 10 25 15 15	45 10 40 15 15	40 10 40 15 15	35 10 35 15 15	30 10 30 15 15	30 10 20 15 15	25 10 20 15 15						
20-21	Between Oakland Pier and MP 10.5, except. On curve west of and across freight leads West Oakland. On both leads to West Oakland across main tracks. Over Adeline St. crossing, Oakland. *Between Market St. and Oak St. Oakland. Between MP 10.5 and Elmhurst. Over Junction switch Elmhurst. Between Elmhurst and MP 25.0 (Alvarado line), except. On curve at MP 13.5. Between MP 25.0 and east switch Newark, except. On curve at MP 29.2 Within Newark yard limits. Between east switch Newark and MP 43.7, except. MP 36.0 - east end of bridge 36.83. On curve at MP 39.2 Between MP 43.7 and Santa Clara. *Over Stockton Ave., and Emory St., San Jose, 10:00 PM to 6:00 AM. Between Elmhurst and MP 29.6, Niles Jct. except.	15 20 15 25 15 60* 35 50* 40 60 25 40 50	30 20 15 20 15 25 15 60 35 50 40 40 60 25 40 50	30 20 15 20 15 25 15 55 35 50 40 40 55 25 40 50 50 12 25	30 20 15 20 15 25 15 55 35 50 40 40 55 25 40 50	30 20 15 20 15 25 15 50 35 50 40 40 50 25 40 50	30 20 15 20 15 25 15 45 45 40 40 45 25 40 45 25	30 20 15 20 15 25 15 40 35 40 40 40 40 40 40 25 40	30 20 15 20 15 25 15 35 35 35 35 35 35 35 35 35	30 20 15 20 15 25 15 35 25 35 35 25 35 35 25 35 25 35	30 20 15 20 15 25 15 45 45 40 40 45 25 40 45 25 40 45 25 40 45 25 45	30 20 15 20 15 25 40 40 40 40 40 40 40 40 40	30 20 15 20 15 25 15 35 35 35 35 35 35 35 35 35	30 20 15 20 15 25 15 25 30 30 30 30 30 30 30 30	30 20 15 20 15 25 30 25 30 30 15 30 25 30 25 30 25 30 25	25 20 15 20 15 25 15 25 25 25 25 25 25 25 25 25 25 25 25 25						

^{*}GS and Mt class engines restricted to 45 MPH.
*Regulated by city ordinance.

NILES SUBDIVISION

RATING OF ENGINES—In Ms of 1000 lbs. Back of Tender.

NOMINAL CLASS	ENGINE NUMBERS	Oakland and Santa Clara	Oakland and San Jose Yard via Niles	Niles and Redwood Jct.	Tracy to Niles	Niles to Tracy
DES-1,2,3,4,5,6,7	1000 to 1022.	3200	1950	3200	800	850
DES-100 to 107	1300 to 1395.	4500	3100	4500	1250	1350
E-23	1500 and 1502.	3350	2600	4000	1000	1050
M-4	1617 to 1713.	4450	3450	5250	1400	1500
M-6, 8	1721 to 1803, 1823 to 1825.	5250	4100	6150	1650	1750
M-9, 11	1804 to 1822, 1826 to 1831 and 1836.	5500	4300	6500	1750	1850
M-11	1832 to 1835.	5700	4450	6800	1800	1900
T-1	2242 to 2271	3800	2950	4500	1150	1250
T-8, 9	2161, 2174 and 2178	2750	2100	3250	830	880
T-23	2301 to 2310	5500	4300	6450	1750	1850
T-26	2283 to 2299	4800	3750	5550	1500	1600
T-28, 31	2311 to 2362	6000	4700	7100	1900	2000
T-32, 40	2363 to 2384	6150	4800	7100	1950	2050
T-36	2103	4050	3150	4800	1300	1350
T-37	2105 and 2106	5450	4250	6500	1700	1800
T-57, 58	2385 and 2386	4950	3850	5850	1550	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.	4950 4950 5450 6100 6500 6800 6800 5250 6900	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	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	5150	7850	2100	2200
C-15, 32		4250	3300	5050	1350	1400
C-17		5200	4050	6200	1700	1800
C-18		6050	4750	7200	1950	2050
C-19		6300	4950	7500	2000	2150
TW-1		5050	3950	6000	1600	1700
TW-2, 3		4050	3150	4800	1250	1350
TW-4, 6		3850	3000	4600	1200	1250
TW-8		5550	4350	6600	1750	1850
A-3	3029. 3025, 3036, 3052 and 3057. 3000 to 3003. 3201 to 3240. 3241 to 3277. 3300 to 3324. 3295. 3297 and 3298.	3900	3050	4400	1150	1200
A-3		3900	3300	4400	1150	1200
A-6		4800	4050	5400	1450	1550
Mk-2, 4		7650	5950	9100	2400	2550
Mk-5, 6		8450	6600	9950	2700	2850
Mk-7, 8, 9		9200	7200	10900	2950	3150
Mk-10		7100	5550	8450	2300	2400
Mk-11		6800	5300	8050	2200	2300
F-1	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	7500	11400	3050	3250
F-3		11000	8600	13100	3550	3750
F-4, 5		11000	9150	13100	3550	3750
AM-2		10900	8500	12900	3500	3700
MM-3		12800	10000	15200	3950	4300
AC-1, 2, 3		13300	10400	15800	4300	4550
AC-4, 5		17300	13500	18500	5600	5950
AC-6 to 12		18300	14300	18500	5900	6200
Mt-1, 3, 4, 5	4300 to 4376.	9000	7450	10550	2800	3000
Mt-2	4385 to 4390.	9750	7600	11500	3050	3250
GS-1, 2	4400 to 4415.	9600	7800	11250	3000	3150
GS-3, 4, 5, 6	4416 to 4469.	10200	8000	12000	3100	3300
SP-1, 2, 3	5000 to 5048.	12950	10150	15350	4150	4400
Allowance for	Less than 45 Ms.	6	6	6	3	3
Empty and		3	3	3	3	3
Inderloaded Cars		0	0	0	0	0

ENGINES FOR WHICH NO RATING IS SHOWN IN THE RATING OF ENGINES TABLE WILL NOT BE PERMITTED TO OPERATE IN THAT TERRITORY UNLESS AUTHORIZED BY SUPERINTENDENT.

DIVISION MILEAGE

First Main Track: MAIN LINES	
Oakland Pier to Washington	84.65
Davis to end of division S P P P	87.21 1.45
Martinez to Tracy. S. P. R. R. Oakland Pier to Tracy via Niles. C. P. Ry. Tracy to Polk. C. P. Ry.	47.62
Oakland Pier to Tracy via Niles	66.97
Tracy to Fresho via Kerman S P R P	60.74 124.18
Lathrop to Biola Jet	106.45
Elmhurst to Santa Clara	30.26
Redwood Jet. to Niles Tower C. P. Ry Niles to San Jose	15.51
Niles to San Jose	14.52
Total First Main Track	
Second Main Track:	
Oakland Pier to Washington	87.34
Martinez to Mococo	96
Oakland Fier to Elmhurst	9,17
Tracy to Akers	23.85
Total Second Main Track	
Total Main Lines	691.64
BRANCH LINES	
Richmond spur. San Pablo to Richmond Transfer. S. P. R. R	2.06
Napa Suisun-Fairfield to Calistoga S. P. R. R	47.34 7.13
VallejoNapa Jct. to VallejoS. P. R. RSchellvilleNapa Jct. to SchellvilleS. P. R. R	11.30
Union. Union to West Napa. S. P. R. R. Winters. Elmira to Esparto. S. P. R. R.	2.01
San Ramon Avon to Radum S. P. R. R	30.74 29.85
Oakdale Stockton to Montpellier S. P. R. R	49.33
San Ramon	
Lodi to Kentucky House S. P. R. R 26.67	41.91
Ione	26.91
they caudic	.25
Chowchilla	10,23 11.90
Madaga anna Madaga ta and af anna C D D D	9 00
Elmhurst Elmhurst to Stonehurst S. P. R. R	.75
Total Branches	275.60
Total Western Division	967.24

SPEED TABLE

	STEED	TABLE	
TIME PER MILE			MILES PER HOUR
36" 37" 38" 39"			. 100 . 97.3 . 94.7 . 92.3
40" 41" 42" 43"			90 87.8 85.7 83.7
44" 45" 46" 47"			81.8 80 78.3 76.6
48" 49" 50"			. 75 . 73.5 . 72 . 70.6
52" 53" 54" 55"			69.2 67.9 66.6 65.4
56" 57" 58" 59" 1'00"			64.2 63.1 62 61 60
1'01" 1'02" 1'03" 1'04" 1'05"			59 58 57.1 56.2 55.3
1'06" 1'07" 1'08" 1'09" 1'10"			54.5 53.7 52.9 52.1 51.4
1'11" 1'12" 1'13" 1'14" 1'15"			50,7 50 49.3 48.6 48
1'16" 1'17" 1'18" 1'19" 1'20"			47.3 46.7 46 45.5 45
1'25" 1'30" 1'35" 1'40" 1'45"			42.3 40 37.9 36 34.3
1'50" 1'55" 2'00" 2'15" 2'30"			32.7 31.3 30 26.6 24
2'45" 3'00" 3'30" 4'00" 5'00"			21.8 20 17.1 15 12
6'00" 7'00" 7'30" 8'00" 10'00"			10 8.6 8 7.5 6