

WORK SAFELY TODAY

EACH RULE VIOLATION IS A
POTENTIAL ACCIDENT

ASS	SISTANT	SUPERIN	NTENDE	NT
E McDO	NALD	ALL STREET		Sacramen

TRAINMASTERS

W. G	. HOWELL			×		ij,	ú											Stockton
J. J.	McNALLY.	y	·			¥				٠.	è		,	,		ŀ	,	Oroville
P. F.	PRENTISS			٠.,				i.				 	i				,	 .Keddie

TERMINAL TRAINMASTERS

H. E.	STAPP	 	 	 Oakland
J. G.	NOLTE	 	 	 Stockton

ROAD FOREMEN OF ENGINES

HUGH ALLEN	á					ĕ			ě	÷		×	٠,		·	ı		è	Stockton
R. McILVEEN	,	i.	. ,	i.	i	ı	.,	. ,					 			i	ď		Stockton
T. D. HUNTER				·						. ,		٠,		ï		i.	,	į.	 Oroville
N. F. ROBERT	S			į.								٠.	ı.						Oroville

ASSISTANT TRAINMASTERS

Stockton	٠.,											s	N	A	EV	H.	G.	
. Sacramento					٠,		 ٠	 		٠,	-	Y	R	N	HE	A.	L.	
Table												NT-	677	1	ATI	62	n	

ASSISTANT TERMINAL TRAINMASTER

LEROY	FOSTER	 A CONTRACT OF THE PARTY OF THE	Oakland

CHIEF TRAIN DISPATCHER

R.	I. BIII.I.	JER	 	acromento
B-244			 	MALE MARKETINE STATE

ASSISTANT CHIEF TRAIN DISPATCHER

L. C. JASKALA.....Sacramento

NIGHT CHIEF TRAIN DISPATCHERS

W. S. GRAHAM		acramento
P. JOSSERAND	S	acramento



WESTERN PACIFIC RAILROAD CO.



WESTERN DIVISION TIMETABLE

37

AT 12:01 A. M.
PACIFIC STANDARD TIME

FOR THE GOVERNMENT AND INFORMATION
OF EMPLOYES ONLY

H. A. MITCHELL.

Vice-President and General Manager.

E. T. GALLAGHER,

Superintendent of Transportation.

G. W. CURTIS.

Superintendent.

- 10 min 10 min end subjection.

(A Try (C) (A)

(Additional supplementations.) · ·

SPEED TABLE

TIME PER MILE	MILES PER HOUR
36" 37" 38" 39"	. 100 . 97.3 . 94.7 . 92.3 . 90
41" 42" 43" 44"	. 87.8 . 85.7 . 83.7 . 81.8
46" 47" 48" 49"	78.3 76.6 75 73.5
51" 52" 53" 54"	70.6 69.2 67.9 66.7 65.5
56" 57" 58" 59" 1'00"	. 64.3 . 63.2 . 62.1 . 61
1'01" 1'02" 1'03" 1'04" 1'05"	. 59 . 58.1 . 57.1 . 56.2 . 55.4
1'06" 1'07" 1'08" 1'09"	54.5 53.7 52.9 52.2 51.4
1'11" 1'12" 1'13" 1'14"	50.7 50 49.3 48.6 48
1'16" 1'17" 1'18" 1'19"	 . 47.4 . 46.8 . 46.2 . 45.6 . 45
1'25" 1'30" 1'35" 1'40"	. 42.4 . 40 . 37.9 . 36 . 34.3
1'50"	32.7 31.3 30 26.7
2'45" 3'00" 3'30" 4'00" 5'00"	. 21.8 . 20 . 17.1 . 15 . 12
6′00″	. 10 . 8.6 . 8 . 7.5 . 6

2	EASTWARD FIRST CLASS FIRST CLASS FIRST CLASS FIRST CLASS											
SECOND CLASS FIRST CLASS Timetable No. 37 October 10, 1948 T												
			Ills	SEC	OND C	LASS		FIRST CL	ASS	from	Timetable No. 37	from
	Symbols, tule 6 (A).	r Capacity of Sidings	raph Office Ca	21		Fast	Fast			Distance San France	October 10, 1948	Distance Oakland
	н	Ca	Telegr			Leave Daily	Leave Daily		Leave Daily		STATIONS	
		-	==		_		7		PM 6.00	0.0	SAN FRANCISCO	0.450
		-	Go		_				6.20 PM	3.5	OAKLAND PIER	
		100	0						PM 6.30	3.5	TO OAKLAND PIER (SP)	
-	RBKW	Vard				PM 9.00	AM 5.20		Via	4.7		0.0
		Tara	Ma			7.00				5.8	SP Crossing	1.1
	-	1,000				9.05	5.25		6.38	5.9		1.2
	R	1.7	Ak			9.10	5.30		s 6.45	6.6	TO OAKLAND	1.9
Vard		1.7	-					4		7.2	SP Crossing	2.5
Yard Limits	I	1779				9.14	5.34		6.49	7.7	CLINTON (SP X'Ing.)	3.0
		111				9.22	5.41		6.57	9.6	FRUITVALE	4.9
	1									10.6	MELROSE (SP X'ing.)	5.9
	P	69				9.30	5.48		7.02	11.3	KOHLER 2.4	6.
	IP					9.38	5.54			13.7	ELMHURST (SP X'ing.)	9.
	P		Dr			9.41	5.58		7.09	14.8	TO SAN LEANDRO	10.
	P	84	Ну		TI.	9.55	6.10		7.16	19.8	TO HAYWARD	15.
[WP	83	Cn			10.25	6.40		7.30	29.7	TO NILES	25.
Yard Limits	I	2.7		economic de la constanta de la	Y F					30.3	0.6 SP Crossing	25.
	YP	1 0								30.5	NILES JUNCTION	Absolute 30.
	P	77		A PERSONAL PROPERTY OF THE PERSON OF THE PER		10.43	7.00		7.40	35.6		
	P	⇒ 76	Tn			10.58	7.17		7.48	40.8	PLEASANTON	Automatic 38.
	I									42.7	1.9 SP Crossing 0.3	38.
	I									43.0		Block 38.
	WP	76	Vn			11.14	7.40		7.58	47.2	LIVERMORE 9.0 ALTAMONT	System 51.
	YP	95		verse que e		11.41	8.05		8.12	56.2	ALTAMONT 7.1 MIDWAY	
	P	103		And a second		PM 11.58	8.20		8.22	63.3	TO CARBONA	58.
Yard Limits	WYP	115	Cb			12.16	8.37		8.34	72.3	TO CARBONA 1.1 LYOTH	67
	Р.	117	Ку	A CONTRACTOR OF THE PARTY OF TH		12.19	8.41			73.4	0.6	68
	1	le.		gradinests.						74.0	SP Crossing	69
	P	89				12.25	8.47		8.41	76.7	7.75 SP Crossing	72
	I									84.45	1.28	79
	P	108		merce de la como	- 1	12.44	9.06		8.54	85.73	LATHROP 4.57	81
	P					1.00	0.05		9.00	90.3	ORTEGA	85
Yard Limits	RBKW FTPO	Yard	Sn	THERMA CONT.		1.00 AM	9.25 AM		9.05	92.0	TO STOCKTON YARD 1.2 AT&SF Crossing	87
Limits	I	- Fa							s 9.10	93.2	0.6	88
	RKR		Fe						s 9.10	93.8	TO . STOCKTON	89
				*****	1115	Arrive Daily	Arrive Daily		Arrive Daily	-		-
						54	62		40			

Special instructions on pages 2 and 3 will apply to both pages where applicable.

No. 39 will stop at Livermore, Pleasanton, Niles and Haywards to discharge revenue passengers from Oroville and east.

No. 40 will stop on advance notice at Hayward, Niles, Pleasanton and Livermore to receive revenue passengers for Oroville and east.

				W.	ESTWA	RD	
BC0	Timetable No. 37	E .	FIRST CL	ASS	SEC	OND CL	ASS
Distance from San Francisco	October 10, 1948	Distance from Stockton	39 Exposition Flyer		Fast Freight	77 Fast Freight	53 Fast Freight
	STATIONS		Arrive Daily		Arrive Daily	Arrive Daily	Arrive Dail;
0.0	SAN FRANCISCO	93.8	AM 8.50			DESIR I	EF.71
3.5	SAN FRANCISCO 3.5 OAKLAND PIER OAKLAND	90.3	8.30 AM				
3.5	TO OAKLAND PIER (SP)	90.3	AM s 8.15			DE BOLL	er.iis
4.7	TO GAKLAND YARD (WP)	89.1			AM 7.55	PM 2.45	PM 10.00
5.8	SP Crossing	88.0	Via SP		1.55		10.00
5.9	CHESTNUT JCT. (SP Conn.)	87.9	AM 8.03		7.50	2.40	9.55
6.6	TO OAKLAND	87.2	s 8.00		7.45	2.35	9.50
7.2	SP Crossing	86.6					
7.7	CLINTON (SP X'ing.)	86.1	7.51		7.40	2.30	9.45
9.6	FRUITVALE	84.2	7.46		7.33	2.21	9.37
10.6	MELROSE (SP X'ing.)	83.2	0.01			CELEUN	0861
11.3	KOHLER 2.4	82.5	7.41		7.26	2.14	9.30
13.7	ELMHURST (SP X'ing.)	80.1	20.01		7.18	2.08	9.22
14.8	TO SAN LEANDRO	79.0	7.33		7.13	2.02	9.17
19.8	TO HAYWARD	74.0	7.26		7.01	1.50	9.05
29.7	TO NILES	64.1	7.11		6.40	1.30	8.45
30.3	SP Crossing	63.5					
30.5	NILES JUNCTION	63.3		_			-
35.6	SUNOL 5.2	58.2	7.00		6.22	1.07	8.27
40.8	PLEASANTON	53.0	6.50		6.10	12.55	8.15
42.7	5.1 SUNOL 5.2 PLEASANTON 1.9 SP Crossing 0.3 SP Crossing	51.1					
43.0	SP Crossing	50.8					68.8
47.2	LIVERMORE	46.6	6.40		5.55	12.40	7.58
56.2	9. 0 ALTAMONT 7. 1	37.6	6.25		5.30	12.15 PM	7.35
63.3	MIDWAY 9.0	30.5	6.14		4.55	11.40 AM	7.10
72.3	TO CARBONA	21.5	6.01		4.19	10.50	6.45
73.4	LYOTH 0.6	20.4			4.07	10.40	6.37
74.0	SP Crossing	19.8	H. H.				DE-A
76.7	FITZ 7.75	17.1	5.53		4.01	10.30	6.31
84.45	SP Crossing	9.35					TAKE
85.73	LATHROP 4.57	8.07	5.40		3.44	10.15	6.14
90.3	ORTEGA 1.7	3.5		-		C- THESE	CLUT 1991.
92.0	TO STOCKTON YARD	1.8	5.30		3.30 AM	10.00 AM	6.00 PM
93.2	AT&SF Crossing	0.6			AM	Airi	- IVI
93.8	TO STOCKTON	0.0	5.25 AM				
Laite	of the lone should be to be a	No.	Leave Daily	Ţ.	Leave Daily	Leave Daily	Leave Daily
			39		61	77	53
-			00		1 01	11	00

Special instructions on pages 2 and 3 will apply to both pages where applicable.

Absolute Automatic Block System. See pages 24 and 25 for special instructions.

Tunnel Signals. See page 13.

Between Chestnut Jct. and Oakland Pier, trains will be governed by SP timetable and rules and regulations of the Transportation Department.

A train register for WP trains only is provided at Oakland Pier. In addition to their SP registration, WP trains will register on this register in accordance with their identity on the WP arriving or departing Chestnut Jct. using actual arrival or expected departure time at Chestnut Jct.

When crews of sections of first-class trains terminating at Chestnut Jct. tie up at Oakland Yard, registration will be made at that point and operators at Oakland Yard immediately will telephone such registration to telegraph operators at SP Oakland Pier for entry on WP train register.

Eastward WP trains originating at Oakland Pier must obtain WP clearance card at Oakland Pier and will not require clearance card at Chestnut Jct.

Chestnut Jct. is initial station for eastward first-class trains.

Oakland is register station for first-class trains only.

Eastward first-class trains must not leave Oakland without a clearance card. Other trains will not require a clearance card unless train orders are received.

RULE 83. Eastward first-class trains need not check departure of other eastward first-class trains at Chestnut Jct. When departure of sections of eastward first-class trains has been checked on WP register at Oakland Pier following sections will not require additional check at Chestnut Jct. but must have check before leaving Oakland.

When trains meet at Clinton, the north track may be used between Clinton and Chestnut Jct. by train taking siding. See instructions on page 18 under Clinton for signal arrangement at east switch to north track.

Westward first-class trains will register by ticket at Stockton Yard.

Eastward first-class trains will not register at Stockton Yard, except when crew changes on sections of eastward first-class trains are made there. Conductor going off duty will register in and make notation in extreme left hand column of train register reading "Crew Change Sn Yd." Outgoing conductor will register departure with same notation.

Operator at Stockton will transmit registration of eastward first-class trains to operator at Stockton Yard, who will enter on register with notation in extreme left hand column reading "Stockton Psgr Station" and immediately verify with dispatcher, for information of trains originating at Stockton Yard.

Nos. 39 and 40 register by ticket at Stockton.

4						SECO	ND SUE	BDIVISION			
. Tex.	ont Dirth	hrin.	lin.	historial in	EASTWA	RD	CHAY	TREET			
And help	gange on	The second	alls	recteding a	SECOND CL	ASS	is amogra	FIRST CLASS	rom	Timetable No. 37	from
	Symbols, Rule 6 (A).	ar Capacity of Sidings	Telegraph Office Calls	mali restriction des principal	78 Fast Freight	62 Fast Freight	54 Fast Freight	40 Exposition Flyer	Distance from San Francisco	October 10, 1948	Distance from Stockton Yard
Beitre	A M = W	0	Tele	Lynda il ce	Leave Daily	Leave Daily	Leave Daily	Leave Daily		STATIONS "	
	RBKW FTPO	Yard	Sn	mil se tra	PM 6.00	AM 11.45	AM 3.20		92.0	TO STOCKTON YARD	0.0
tiples to	I	la la	11/2		med's				93.2	AT&SF Crossing	1.2
Yard Limits	RKIP -	1, 160	Fc	The state of	6.10	11.55	3.30	PM 9.15	93.8	TO STOCKTON (SP X'Ing.)	1.8
la rort	P	Yard		office the	6.13	AM 11.58	3.33	9.18	94.3	FLORA STREET	2.3
.115	I	777 m	17.7	m minist	SP Outland				95.1	SP Crossing	3.1
	P	87			6.20	PM 12.04	3.39	9.24	98.1	HAMMER LANE	6.1
	P	76	Di	bijawa injeli.	6.32	12.16	3.51	9.31	104.6	TO KINGDON	12.6
	YP	34						-	105.5	TERMINOUS JUNCTION	13.5
	WP	76	Nh		6.45	12.39	4.14	s 9.44	113.9	TO THORNTON	21.9
	P	77			6.55	12.49	4.24	9.52	119.0	GLANNVALE	27.0
	P	76			7.05	12.59	4.37	9.58	124.4	FRANKLIN	32.4
	P	103		the second	7.20	1.20	4.55	10.07	132.4	POLLOCK	40.4
	RKWF P	Yard	Jу	hall co	7.55	2.00	5.40	10.20	136.5	TO SOUTH SACRAMENTO	44.5
	I						.016		137.5	CCT and SN Crossing	45.5
Yard Limits	RI				design tour	4-1	Deal 1	0.5.7	138.0	0.5 SP Crossing	46.0
nio ibu	куро	100	Sr Ra Ds		8.05	2.10	5.50	s 10.35	138.6	TO SACRAMENTO	46.6
	I	01 75		alaso at v	surface A III				139.2	0.6 SN Crossing	47.2
No.	I		10	u Lipiti ou	d lune tool				140.8	1.6 SN Crossing	48.8
	P	76			8.20	2.30	6.19	10.45	143.8	DEL PASO	51.8
	P	75		Market St.	8.32	2.42	6.31	10.52	150.6	COUNSMAN	58.6
	I	16.15.0			in plant vit -				152.5	SN Crossing	60.5
	WP	75	Gv		8.44	2.55	6.42	10.59	156.4	TO PLEASANT GROVE	64.4
	P	83			8.54	3.06	6.53	11.06	161.5	TROWBRIDGE	69.5
	P	76	1	uladeal I o	9.14	3.28	7.12	11.20	172.5	EAST ARBOGA	80.5
Yard Limits	RWIP	110	Ms	STORY DE NO.	9.35	3.55	7.40	s 11.35	178.8	Joint (TO MARYSVILLE	86.8
15 20	I	1-1,88		Marie I Control	7 150	era il	odol, m	10.6.1	180.2	SP Crossing	88.2
	P	76			9.51	4.16	7.55	11.43	186.0	TAMBO	94.0
- Day of	P	76		hal your to	10.05	4.30	8.09	11.51	193.0	CRAIG	101.0
	P	97		OF A STATE OF THE	10.17	4.43	8.22	PM 11.59	199.3	PALERMO	107.3
Yard	RBKWF		Yd	ofoets if a	10.25 PM	4.55 PM	8.30 AM	AM 12.05	202.9		
Limits {	RBKIP	50	Vi	Alcill Edition	y acti	FI.e I	dial bi	s 12.10	205.1	TO OROVILLE YARD TO OROVILLE	113.
Brillian	maulé	Last		20091301	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily		169719	-
-Lifty is	Land In	(SIGN)	=	u totl. Jul.	78	62	54	40		THE WARRANT PROPERTY OF	
				or in more son	10	UL.	04	40	THE T	pellered plants	

 Second-class and extra trains, Second Subdivision, respect time of first-class trains on the First Subdivision between Stockton and Stockton Yard.

Stockton is register station for first-class trains only.

Operator at Stockton will transmit registration of eastward first-class trains to operator at Stockton Yard, who will enter on register with notation in extreme left hand column reading "Stockton Psgr Station" and immediately verify with dispatcher, for information of trains originating at Stockton Yard.

Second-class and extra trains originating or terminating at Stockton Yard will not require clearance card at Stockton unless train orders are received.

At Flora Street, Track 7, located on north side of main track, west switch at Park Street, east switch immediately west of Harding Way, will be used as siding.

Stockton, South Sacramento, "R" Street Tower, MP 138 Sacramento, and Marysville are register stations for first-class trains only. Nos. 39 and 40 register by ticket at Stockton, South Sacramento, "R" Street Tower Sacramento, Marysville and Oroville Yard.

For movement between Oroville Yard and Oroville see pages 26 and 27 for special instructions.

Special Instructions on pages 4 and 5 will apply to both pages where applicable.

	1	ď	SECOND	SUBDIVISION							
					WE	ESTWAI	RD				
from	Timetable No. 37	from	FIRST CLASS		0.83	Lio allos	SECON	D CLASS	fel .		
Distance from San Francisco	October 10, 1948	Distance from Oroville	39 Exposition Flyer	77 Fast Freight	53 Fast Freight	Fast Freight	Ad Alla	50			
	STATIONS		Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily	of Francisco	Policy.	A		
92.0	TO STOCKTON YARD	113.1		AM 9.30	PM 5.05	AM 1.55	29%	0.29		THE WATER	
93.2	AT&SF Crossing	111.9	office and a	9.30	3.05	1.55				OTHER W	
93.8	TO STOCKTON (SP X'ing.)	111.3	s 5.20	9.20	4.55	1.44			100	-	
94.3	FLORA STREET	110.8	5.17	9.17	4.52	1.41					
95.1	SP Crossing	110.0	1000	100000							
98.1	HAMMER LANE	107.0	5.11	9.09	4.44	1.34		-			
104.6	TO KINGDON	100.5	5.04	8.58	4.35	1.23					
105.5	TERMINOUS JUNCTION	99.6		-							
113.9	TO THORNTON	91.2	s 4.52	8.43	4.20	1.10					
119.0	GLANNVALE 5.4	86.1	4.43	8.33	4.10	12.59					
124.4	FRANKLIN 8.0	80.7	4.37	8.23	4.00	12.49	JU BIN				
132.4	POLLOCK 4.1	72.7	4.28	8.00	3.40	12.35	A Para	-	_		
136.5	TO SOUTH SACRAMENTO	68.6	4.21	7.50	3.30	12.25 AM		-			
137.5	CCT and SN Crossing	67.6		-		AM	_				
138.0	SP Crossing	67.1			(99)	DILL/5/49					
138.6	TO SACRAMENTO 0.6	66.5	s 4.05	7.05	2.45	11.55 PM		-			
139.2	SN Crossing	65.9		7101		PM		-			
140.8	1.6 SN Crossing	64.3									
143.8	DEL PASO	61.3	3.53	6.44	2.30	11.40		-		-	
150.6	COUNSMAN	54.5	3.45	6.31	2.18	11.29	-500			11.04	THE REAL PROPERTY.
152.5	1.9 SN Crossing	52.6							_		
156.4	TO PLEASANT GROVE	48.7	3.37	6.19	2.08	11.18	lighter be				
161.5	TROWBRIDGE	43.6	3.30	6.08	1.57	11.06	M EV				
172.5	EAST ARBOGA	32.6	3.17	5.49	1.38	10.35	7				
178.8	Joint (TO MARYSVILLE	26.3	s 3.08	5.35	1.20	10.20	N 1077 W				
180.2	Track (1.4 SP Crossing	24.9		3.33		10.20	-				
186.0	5.8 TAMBO	19.1	2.57	5.10	12.55	9.51			W1 1 191	100	
193.0	7.0 CRAIG	12.1	2.48	4.55	12.55	9.35	1/40			-	
199.3	6.3 PALERMO	5.8	2.40	4.40	12.41						
202.9	3.6 TO OROVILLE YARD		2.35			9.20					bury
205.1	TO OROVILLE YARD 2.2 TO OROVILLE	0.0		4.30 AM	12.20 PM	9.10 PM			A STATE		
-			2.30 AM								
			Leave Daily	Leave Daily	Leave Daily	Leave Daily		150			
			39	77	53	61					

SOUTH SACRAMENTO

RULES 221 and 221 (A). Color-light type, electrically-operated train order signal located at South Sacramento.

Passenger trains or freight trains not stopping will not call for or answer train order signal but must obtain clearance card if signal

or answer train order signal but must obtain clearance card if signal is in STOP position or shows green aspect when first seen.

Freight trains stopping will not call for train order signal but must obtain clearance card before leaving if signal is in STOP position or if it shows green aspect when first seen.

Train order delivery machine attached to signal mast. Two upper hoops are for delivery to enginemen, lower hoop for conductors. When flagman receives copies of orders and train has only one engine middle hoop is for enginemen, top hoop for conductor one engine middle hoop is for enginemen, top hoop for conductor and lower hoop for flagman.

At South Sacramento and Sacramento, engine whistle should be used only when necessary and then kept as soft as possible consistent with the particular requirement.

RULE 83 (D). Only first-class trains need obtain clearance card at Sacramento.

Joint Track, Marysville. See page 15 for special instructions. Automatic Block Signals. See page 13.

No. 40 will stop daily clear of cross-over in front of yard office, South Sacramento, to pick up RPO car.

Special Instructions on pages 4 and 5 will apply to both pages where applicable.

6	An I						THIE	RD SUB	DIVISION			II .	II.
					EA	STWA	RD						
			lls	Bekto.	SEC	OND CL	ASS		FIRST CL	ASS	SCO III	Timetable No. 37	EP
	Symbols, Rule 6 (A).	Car Capacity of Sidings	Telegraph Office Calls	62 Fast Freight	54 Fast Freight	94 Local Freight	96 Local Freight	78 Fast Freight		40 Exposition Flyer	Distance from San Francisco	October 10, 1948	Distance from
		3	Teleg	Leave Daily	Leave Daily	Leave Tues., Thurs., Sat.	Leave Mon., Wed., Fri.	Leave Daily		Leave Daily		STATIONS	
Yard	RBKWF ITYPO	Yard	Yd	PM 6.30	AM 10.30	la fi	AM 7.30	AM 2.00			202.9	TO OROVILLE YARD	0.0
Limits	RBKIP	50	Vi	0.00						12.20	205.1	IIIO ONOVILLE	2.2
	P	87						0.20		12.27	209.3	QUARTZ	6.4
	P	91								12.32	212.9	BIDWELL	10.0
	P	86								12.41	217.6	BLOOMER	14.7
	WP	93			Schedule	s showr	for fir	st		12.56	224.1	BERRY CREEK	21.2
	P	96						er		1.09	231.2	DAVID	28.3
	P	79					1-1-1	or	-	1.17	235.2	4.0 POE	32.3
	WFP	84	-					ut		s 1.28	239.3	PULGA	36.4
	P	82	1					ns		1.39	243.5	CRESTA	40.6
	WP	76	-			-		es		1.49	247.6	MERLIN	44.7
	P	58	_		or sectio					s 2.03	253.1	TOBIN	50.2
	P	86	_			Also see	J1.	08.7		2.08	255.3	CAMP RODGERS	52.4
	WP	97	Bn			S. Rule	790)			s 2.20	260.1	TO BELDEN	G 57.2
	P	76	- 1		0.1.0	S. Ruie	100)			2.31	264.6	RICH BAR	57.2 61.7 67.3 70.8
	WP	78	-					led V		2.45	270.2	VIRGILIA	ed 67.3
	P	88	-							2.54	273.7	TWAIN	70.8
	P	87	-							3.02	277.3	PAXTON	Control 74.4
Yard	RKW		Ke	PM 11.30	PM 3.30	8.30	12.30 PM	AM 7.00		s 3.20	281.5	TO KEDDIE	78.6
Limits	P *	Yard 87	Ke	11.30	3.30	8.30	FIVI	1 7.00		3.28	284.5	SIERRA	81.6
	-	-	-							s 3.45	287.9	TO QUINCY JUNCTION	85.0
	P	79	Rt				for secon			3.55	292.6	MASSACK	89.7
	P	86	-				not conf whether			s 4.04		SPRING GARDEN	93.5
	WP	95	-				erative as					TO SLOAT	98.7
	P	88	So				e operate			s 4.16		TWO RIVERS	102.5
	P	88	-		on these					4.23	1	5.0	107.5
	WP	101	Ba		shown a	re for i	nformatio	on		s 4.35		3.4 CLIO	110.9
	·P	93	-		only.					4.45		4.9 MABIE	
-	P	85	-							4.57	318.7	1.34	115.8
Yard Limits	RBKW FTYPO		-	1.30 AM	5.30 PM	11.30 AM	Total	9.00		s 5.05	320.04	DELLEKER 1.36 TO PORTOLA	117.1
	FTYPO	Yard	Ki	AM Arrive Daily		Arrive Tues				Arrive Daily		TORTOLA	110.0
			-				-			40			
		-		62	. 54	94	96	78		40			

Extra trains originating or terminating at Oroville Yard will not require clearance card at Oroville unless train orders are received.

Oroville is register station for first-class trains only.

Keddie is register station for extra trains originating and terminating at Keddie only.

Switch point derail located on NCE lead Keddie Yard between the two crossovers from NCE lead to west end of No. 1 track.

When first-class trains meet at Portola, pocket track in front of depot, will be the siding.

No. 39 and No. 40 will stop on flag at any station to receive or discharge revenue passengers, U. S. mail or express.

discharge revenue passengers, U. S. mail or express.

Nos. 93, 94, 95 and 96 may carry WP employes and/or their families traveling on WP trip or annual passes only.

Slide Detector Fences. See section (H), C.T.C. instructions, page 28.

Centralized Traffic Control. See page 28 for special instructions.

Oroville. For movement between Oroville and Oroville Yard see pages 26 and 27 for special instructions.

Portola. For movement between Delleker and Portola passenger station see page 29 for special instructions.

Special Instructions on pages 6 and 7 will apply to both pages where applicable.

					W	ESTWA	RD				
from	Timetable No. 37	E C	FIRST CL	iss		11.00	SECON	D CLASS			
Distance from San Francisco	October 10, 1948	Distance from Portola	39 Exposition Flyer	53 Fast Freigh	93 Local Freight	95 Local Freight	61 Fast Freight	77 Fast Freight			
	STATIONS		Arrive Daily	Arrive Da	Arrive Mo Wed., Fr	n. Arrive Tues.					
202.9	TO OROVILLE YARD	118.5	-	AM 11.0		PM 12.50	PM 7.00				-
205.1	TO OROVILLE	118.5 116.3	AM S 2020	11.0	01	12.50	7.00	2.25		-	1
209.3	QUARTZ 3.6	112.1	s 2.20 2.11								
212.9	BIDWELL 4.7	108.5	2.05			• • • • • • •					
217.6	BLOOMER	103.8	1.56								
224.1	BERRY CREEK	97.3	1.42								
231.2	7.1 DAVID	90.2	1.26			Sched	lules sh	own for f	irst		
235.2	4.0 POE	86.2	1.17			class	trains d	lo not con	fer		
239.3	PULGA	82.1	s 1.05			any s	uperiorit	y whether	or		
243.5	4.2 CRESTA	77.9	12.53					operative			
247.6	4.1 MERLIN	73.8	12.43					cted by tra			
53.1	5.5 TOBIN	68.3	s 12.29					uch schedu			
55.3	CAMP RODGERS	66.1	12.23				tions the				
260.1	4.8	_					(Also s	ee			
64.6	4.5 RICH BAR	61.3 56.8	s 12.12			C.		ule 780)			
70.2	5.6 VIRGILIA	51.2	11.59 PM								
73.7	3.5 TWAIN	100	11.47								
77.3	3.6	47.7	11.38								
	PAXTON 4.2	44.1	11.30								
81.5	10 REDDIE 3.0	39.9	s 11.20	7.0 AM	11.30	8.00 AM	3.00 PM	10.30 PM			
84.5	SIERRA 3.4	36.9	11.08		00.01	162					
87.9	TO QUINCY JUNCTION 4.7	33.5	s 11.01								
92.6	MASSACK 3.8	28.8	10.51					wn for seco			
96.4	SPRING GARDEN	25.0	s 10.44					o not con			
01.6	TO SLOAT	19.8	10.33			not C	TC ic	y whether operative a			
05.4	TWO RIVERS	16.0	10.26		• • • • • • • •	trains	must no	t be operative a	ted ····		• • • • •
10.4	TO BLAIRSDEN	11.0	s 10.18			on the	se sched	lules. Tin	nes ····		
13.8	CLIO 4.9	7.6	10.08	1 110				informat			
18.7	MABIE	2.7	10.01			· · only.					
20.04	DELLEKER	1.36									
21.4	TO PORTOLA	0.0	9.55 PM	5.00 AM	7.30		1.00 PM	8.25 PM		7 0000	
THE P	and one programme when I sha	100	Leave Daily	Leave Dai	Lasva Mon		PM Leave Daily	Leave Daily		of High vo	THE R
											0
			39	53	93	95	61	77			

The following will govern use of retainers on westward freight trains, Portola to Bloomer:

When the gross weight of train does not exceed 33 tons per car, turn up retainer valves on first fifteen cars back of engine. When gross weight of train exceeds 33 tons and is less than 45 tons per car, turn up retainer valves on first twenty cars back of engine. When gross weight of train exceeds 45 tons per car, turn up retainer valves on first twenty-five cars back of engine.

Retainer valves are to be used in low pressure position which is horizontal. Should wheels show tendency to heat, retainers will be alternated. If, in judgment of engineer, number of retainers unsatisfactory, engineer may instruct the brakeman to add or subtract as required to keep slack bunched and control train at safe speed while brake pipe pressure is being fully recharged.

Use of dynamic brake on freight trains being handled by Diesel freight engines does not modify requirements pertaining to use of retainers, except when Diesel freight engines, 904 to 912 inclusive are handling westward freight trains of 5000 tons or less with dynamic brake operative, retainers need not be used unless requested by engineer.

Special Instructions on pages 6 and 7 will apply to both pages where applicable.

8						FOUR	TH SUE	BDIVISION			
					EASTWA	RD			1	1	
			8	ESASS ORG	SECOND CLAS	ss		FIRST CLASS	ESE	Timetable No. 37	ш
	Symbols, Rule 6 (A).	Car Capacity of Sidings	Telegraph Office Calls		178 Western Pacific Fast Freight	154 Western Pacific Fast Freight	546 Southern Pacific Local Freight	0.	Distance from San Francisco (Via NCE Conn.)	October 10, 1948	Distance from Keddie
			Tele		Leave Daily	Leave Daily	Leave Daily Ex. Sunday	The second very second		STATIONS	
Yard Limits	RBKW FTYP	Yard	Kd		PM 10.40	PM 3.30	1001141		280.8	TO KEDDIE	0.0
-	P	89			11.05	3.55		- POR -	287.0	MOCCASIN	6.2
	P	16	Cm		11.11	4.01		100	289.4	TO CRESCENT MILLS	8.6
	WP	89	Gi		11.25	4.15	Section .		295.5	TO GREENVILLE	14.7
		89	-		PM 11.35	4.25			298.3	COHALA	17.5
4.01 11 1 0 0	WYP	89			11.35 AM 12.15	4.59	Take Co.		306.2	ALMANOR	25.4
		89		La trong D T	12.15	5.25			313.2	LASSEN VIEW	32.4
Yard	P	89		100	12.45	5.35	11/11/11/2		316.0	CLEAR CREEK JCT. (ARR Conn.)	35.2
Yard Yard	RBK WFYP	** -4	-		1.20	6.10	AM 9.15		320.2	4.2	39.4
Limits		Yard	Wd		1.35	6.25	9.30 AM		324.3	TO WESTWOOD 4.1 TO MASON (SP Conn.)	43.5
11.	RP	89	Mn		1.37	6.27			324.9	ROBBERS CREEK	44.1
	P	-	-			6.57			333.3	NORVELL	52.5
10000	PY	89	-		2.07	7.25			343.7	LODGEPOLE	62.9
Yard	P	89			2.30	8.00			357.2	TO HALLS FLAT	76.4
Limits	WYP	89	Hf		3.10				365.0	JELLICO	84.2
	P	89	-		3.30	8.20			371.0	WILLOW SPRINGS	90.2
197.55	P Wat MP	89	-		3.48	8.38	140	11-11	375.6	LITTLE VALLEY	94.8
	96.0 P	89	-		4.10				381.7	DIXIE	100.9
-	P	89	-		4.35	9.25	-		390.3	PIT RIVER	109.5
Yard	PRBKW	89	-		5.00 5.10 AM	9.50 10.00 PM			392.6	TO BIEBER	111.8
Limits	FYPO	Yard	В	Consultation (Co.)	Arrive Daily		Arrive Daily		392.0		
		:	-		178	154	546	E Brand	0.45	Markey Service R	17119

Western Pacific trains may carry passengers.

On passenger trains, before descending grades Almanor to Greenville and Halls Flat to Little Valley, understanding must be had between conductor and engineer as to number of retainers necessary to control train.

On eastward freight trains before leaving Halls Flat and on westward freight trains before leaving Almanor, enginemen must be notified as to number of loads, empties and tons in train and whether all air brakes are cut in and operative.

All retainer valves will be turned up on westward freight trains between Almanor and Greenville.

On westward freight trains between Dixie and Little Valley, between Norvell and Almanor and between Moccasin and Keddie and on eastward freight trains between Dixie and Pit River, an understanding must be had between conductor and engineer as to number of retainers necessary to control train and they must be used accordingly.

On eastward freight trains between Halls Flat and Little Valley, if gross weight of train does not exceed 33 tons per car, turn up retainer valves on the first 20 cars back of engine. If gross weight of train exceeds 33 tons per car and is less than 45 tons per car, turn up retainer valves on first 25 cars back of engine. If gross weight of train exceeds 45 tons per car, turn up retainer valves on first 30 cars back of engine.

When retainer valves are turned up, handle will be placed in low pressure position, which is horizontal, and should wheels show tendency to heat, retainers must be alternated. If, in the judgment of the engineer, number of retainers are unsatisfactory, engineer may instruct the brakeman to add or subtract, as required, to keep slack bunched and to control train at safe speed while brake pipe pressure is being fully recharged.

Use of dynamic brake on freight trains being handled by Diesel freight engines does not in any way modify requirements pertaining to use of retainers, except between Halls Flat and Little Valley when Diesel freight engines with dynamic brake operative are handling eastward freight trains of 3400 tons or less, retainers need not be used unless requested by engineer.

Special Instructions on pages 8 and 9 will apply to both pages where applicable.

maintain to word one where the government of

FOURTH SUBDIVISION

					WE	STWAR	D				1-1-1
# o #	Timetable No. 37	8	FIRST CLASS			S	ECOND	CLASS			
Distance from San Francisco (Via NCE Conn.)	October 10, 1948	* Distance from Bleber		153 Western Pacific Fast Freight	545 Southern Pacific Local Freight	177 Western Pacific Fast Freight					
	STATIONS			Arrive Daily	Arrive Daily Ex. Sunday	Arrive Daily					
280.8	TO KEDDIE 6.2	111.8	a dall distance	AM 7.00	OMA	PM 2.30					
287.0	MOCCASIN 2.4	105.6	The state of the s	6.36		2.30					
289.4	TO CRESCENT MILLS	103.2		6.29		1.58					
295.5	TO GREENVILLE	97.1	WARR SERVICE	6.18		1.45	100				
298.3	COHALA 7.9	94.3		6.00		1.25				7,000	
306.2	ALMANOR 7.0	86.4		5.40		1.05	DLAY	CLEVE			
313.2	LASSEN VIEW	79.4	Time this was 37	5.10	Takali	12.37	FREID	mw out no	Fairm		
316.0	CLEAR CREEK JCT. (ARR Conn.)	76.6		5.00		12.30	Kat	1-11	Tel 13	[Gar	
320.2	CTO WESTWOOD	72.4		4.50	8.50	12.20					
324.3	4.1 TO MASON (SP Conn.)	68.3		4.30	8.35 AM	12.01 PM					
324.9	ROBBERS CREEK 8.4	67.7	SKUSTA W.	4.28		11.58 AM					reserve
333.3	NORVELL 10.4	59.3		4.05		11.35	SE SI			A Here	A tour
343.7	LODGEPOLE 13.5	48.9	er myselfication	3.40		11.10	Dr.KJ.			1 11	
357.2	TO HALLS FLAT	35.4	tor o evert	3.10		10.40	gO, I	3	To the	T II	
365.0	JELLICO 6.0	27.6	and the same	2.25		9.55	al. C		1 1 9		
371.0	WILLOW SPRINGS	21.6	navituus	1.58		9.28	RE J				
375.6	LITTLE VALLEY	17.0	dayidan -	1.45	TE THE	9.15	TE.1		2	+	t d
381.7	DIXIE 8.6	10.9	a pary letter	1.25		8.40	016		21,000		
390.3	PIT RIVER	2.3	A SOUR East Town Char St.	12.45		8.15	00.3				
392.6	TO BIEBER	0.0	ansy liles age	12.30 AM		8.00 AM	" WA		all form		
		2.0	Particular Section	Leave Daily	Leave Daily Ex. Sunday	Leave Daily					
		3.5	Target And Attribution	153	545	177				1	ellu.

In Bieber Yard trains will be governed by Great Northern timetable and transportation rules. Rule 93, Great Northern Transportation Rules, reads as follows: "Within yard limits the main track may be used, clearing first-class trains when due to leave the last station where time is shown, but not less than five minutes. In case of failure to clear the main track, protection must be given as prescribed by Rule 99. Within yard limits the main track may be used without protecting against second and inferior class, extra trains and engines. Second and inferior class, extra trains and engines must move within yard limits at restricted speed. When running against the current of traffic or on a portion of two or more tracks used as a single track, all trains and engines must move within yard limits at restricted speed."

Southern Pacific and Fruit Growers Supply Co. trains will be governed by Western Pacific timetable and rules and regulations of the Transportation Department.

Keddie. Normal position of switch leading from east leg of wye to Fourth Subdivision, lined for east leg of wye. Single switch indicator located at this switch.

Switch point derail located on NCE lead Keddie Yard between the two crossovers from NCE lead to west end of No. 1 track.

Automatic Block Signals. See page 13.

Clear Creek Junction. Normal position junction switch lined for Western Pacific main track.

Westwood. Nos. 153, 154, 177 and 178 register by ticket. Track 4 will be used as siding, but must not be blocked between 6:01 AM and 7:30 AM. Mason. Dispatchers may, when necessary, issue train orders to westward trains at Mason restricting them at Robbers Creek. Westward trains finding train order signal at Mason in STOP position will not pass fouling point west switch Robbers Creek until ascertain reason for signal being in stop position. See Rule 221.

Train order signal governs all trains except westward Southern Pacific trains. Westward Southern Pacific trains must obtain clearance card.

Register station for Nos. 545 and 546 only. Nos. 545 and 546 may register by ticket when there is an operator on duty.

Westward second-class and extra trains need not check register for Southern Pacific train No. 545.

Nos. 153 and 177 need not check register for Southern Pacific train No. 546.

Western Pacific trains will approach junction switch under control, being sure switch is right and that Southern Pacific trains are clear of junction switch before using. Normal position junction switch is lined for Western Pacific main track.

Special Instructions on pages 8 and 9 will apply to both pages where applicable.

First Subdivision "A"-SAN JOSE BRANCH

				EASTWARD	The state of the s	00.8		TWIT	WES'	TWARD	
			alls	SECOND CLASS	FIRST CLASS	Hol	Timetable No. 37	em reight	FIRST CLASS	SECOND C	CLASS
	Symbols, Rule 6(A).	ar Capacity of Sidings	Telegraph Office Calls	254 Freight	02,81	Distance from Niles Junction	October 10, 1948	Distance from Alameda St. Freight Station		253 Freight	
		5	Tele	Leave Daily	majira majira	THE LET	STATIONS		- present stoy	Arrive Daily	1 1111
Yard	RWP	83	Cn	AM 12.30	real transfer	4,05	TO NILES		22277	PM 10.45 10.25	Pine
Limits	YP			12.40	181.11	0.0	NILES JUNCTION	23.0			
	P	29		1.00	0.001	3.3	IRVINGTON	19.7	ASPERTAL PROPERTY.	10.10	FAM
		Spur 1W		1.15	Beign 17 T	6.8	WARM SPRINGS	16.2	Tabula.	9.55	0.000
		Spur 1E		1.22	ALL I	8.0	CURTNER	15.0	- all water to	9.50	
	P	31		1.35	CHAT IT	10.9	MILPITAS	12.1		9.40	
		Spur 1E 10		1.45	(44 E.)	14.1	BERRYESSA	8.9		9.25	1.64
				2.00	(2.14)	16.9	SAN JOSE (East Santa Clara St.)	6.1		9.10	Eliq.
	RBKW FTPO	Yard	Sx	2.00 2.10 AM		17.5	TO SAN JOSE YARD	5.5	2000	9.00 PM	100
						19.5	SP TRANSFER	3.5			
Yard Limits						19.6	VALBRICK (SP X'Ing.)	3.4			
	1					20.2	SP Crossing	2.8			
100	I					22.3	SP Crossing	0.7	Market Contract		
1657	Cryxda	Yard		appaid at another t	mande to unforce les	23.0	SAN JOSE (Alameda St. Fr't. St'n.)	0.0	Carry sogurar	Dan William	Prop ()
maly	our lim	District.		Arrive Daily			Sent read process story	MINE.	Charles To Hill	Leave Daily	
C tree!	1000 100			254			The second second second		HERO MINOR	253	

Visit Cover Section. Wormed position jurisfice cultil from the start of the first start of the s

San Jose Branch trains have no timetable superiority between Niles Junction and Niles. Their movement between these points will be in accordance with Rule 93 and A.A.B.S. signals and rules. Time shown at Niles is for information only.

First Subdivision "B"—CARBONA BRANCH

	data 90	EAS	ST	WARD	201	+	the increased after rear	foun le	WESTWAR	RD
	Symbols, Rule 6 (A).	Car Capacity of Sidings	Telegraph Office Calls	one bay depend and the second	Distance from Carbona		Timetable No. 37 October 10, 1948	Distance from Moy	distriction of the control of the co	
Yard Limits	WYP	115	Cb	u 20000	0.0	то	CARBONA	4.2	no idira d'ant	116
	न्य कि पुरु	66	90		1.7		KERLINGER	2.5	e ego ser na ouese e el Saul de gol son	rtana
	РО			The State of the section	3.4		RIVER ROCK	0.8	ent programa	hd.
	2001	No Siding		Correct be Circum	4.2		0.8 MOY	0.0	When train	4

Derails located on main track 60 feet west of Tracy Rock and Gravel Company switch, MP 3.3 and 240 feet west and 885 feet east of Stock Yards Moy. Cars on main track east of River Rock not protected.

RULE 201. Train order authority will not be required on Carbona Branch and all movements will be in accordance with provisions of Transportation Rule 93.

Second Subdivision "A"-TERMINOUS BRANCH

	les option	EA	STV	WARD	+	to points, not included to		WESTWARD
	Symbols, Rule 6(A).	Car Capacity of Sidings	Telegraph Office Calls	MILETT - THE LEGISLE OF THE PROPERTY OF THE PR	Distance from Terminous Jct.	Timetable No. 37 October 10, 1948	Distance from Terminous	I pre to ret (in al get to get to the obtained to the obtained to
	Dept. Dig		-	on on at also a	i II mian	STATIONS	4	
	YP	34	10	minuben is a you	0.0	TERMINOUS JCT.	7.8	and length count
	tona sar	19		Exercise of Supplies	3.5	GARDEN	4.3	
Yard J		6	bin	MENNSON DE	6.6	GRASS	1.2	Condend of Special
Yard Limits	WY	Yard	Us	E stratt for be	7.8	TERMINOUS	1 0.0	son no hi milant

Terminous Branch main track now ends opposite east end of packing shed No. 2 (geographical south end) and barricade has been erected across track at that point.

GENERAL

- RULE 2 (A). Modified to the extent that watches subject to inspection need be presented to an authorized inspector only once per month. Such inspection must be made between the 1st and 15th of each month except at points covered by traveling inspectors.
- RULE 6 (A). Symbol TO to left of station name indicates Train Order Office.
- RULE 10 (J). On Western Division slow boards, when used, will be placed one-half (1/2) mile from structure or track over which speed of train must be reduced. "Resume speed" boards, when used, will be located at point where speed may be increased after rear of train has passed.
- RULE 11. Second paragraph reading "Outside of block system or signal dispatching limits, a train finding a fusee burning on or near its track must stop and not proceed until it has burned out" applies at all points on Western Division except in C.T.C. Territory between Oroville and Delleker and in A.A.B.S. territory on First Subdivision.
- RULE 11 (A). Outside block system limits and on Third Sub-division fusees may be placed between rails of track when necessary to avoid danger of fire. If train overruns a lighted fusee, it must be removed from under train at once. On Third Subdivision, freight trains finding burning fusee between rails must stop and have fusee removed at once before proceeding under first paragraph Rule 11.
- RULE 16 (f). When train order is received indicating that main track is out of service and that trains are to be detoured through a siding or other track, or over a shoofly, necessitating a reduction in normal train speed, signal 16 (f) must be sounded on passenger trains one mile before reaching point where train must reduce speed, which must be acknowledged by whistle signal 14 (g).

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

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

RULES 17, 17(C) and S-17. Except as otherwise provided in Rules 17, 17(C) and S-17, enginemen operating locomotives in passenger or freight service, or running light will display headlights during daylight hours as well as night hours.

RULES S-17 and 99. Figures indicating "Car Capacity of Sidings" are number of cars, based on an average allowance of 48 feet per car, that tracks will hold between clearance points, not including engines and cabooses. Due to increased number of 50 foot and longer cars being handled, trains may find sidings inadequate between clearance points. Care must be taken to see that flag protection is furnished when taking siding to meet trains and headlights must not be extinguished until it is known that train is clear of the main track. The conductor or brakeman at rear end must see that proper signal, day or night, is given to head end when train is clear of main track.

After train comes to rest in the siding, the head end must receive a stop signal from the rear end indicating that train is clear of the main track. Until such signal has been received by head end, head-light will be displayed and flag protection provided.

- RULE 17 (D). In light engine movements between Oakland Roundhouse and Chestnut Junction in either direction in connection with moves to or from Southern Pacific Oakland Pier white light (lantern) may be displayed on rear of tender instead of red light.
- RULE S-72. WESTWARD TRAINS ARE SUPERIOR TO EASTWARD TRAINS OF THE SAME CLASS.
- RULE 104 (C). Switches at various locations near road crossings are equipped with Safety Switch Locks. To use any switch so equipped unlock both standard switch stand and safety switch lock and step on treadle to release safety device. When use of switch is complete, both switch stand and safety switch lock must be locked.
- RULE 104 (G). Double or triple loads must not be kicked or dropped. Open-top cars on which load is likely to shift must not be kicked or dropped against other cars.

- RULE 221. Telegraphers must not signal trains in connection with delivery of train orders. If there is no restriction at that station, telegrapher may hand up the orders without stopping train, but should not signal the train to come down the main track either by raising and lowering the train order signal or by hand signals.
- RULE 509. An automatic block signal with a triangular number plate bearing the letter "P" in addition to signal number or an absolute signal equipped with triangular letter plate bearing the letter "P", is also actuated by some special protective device.

Block signals or absolute signals so equipped include in their

circuits protective devices known as "Slide Detector Fences".

When these signals indicate STOP such additional inspection as necessary to insure safety of proceeding must be made of slide detector fences and tracks in their vicinity. When circumstances require train must be preceded by flagman.

RULE 834. Following signals will be used to notify crews of passing trains of defective conditions:

Hot Journals..... By Day-Nose held with one hand with other hand pointing toward track.

By Night—Stop Signal.

Brakes Sticking . . . By Day—Hands shoved in sliding motion out from body. By Night-Stop Signal.

Broken Wheels Defective Truck
Dragging Brake Connection Stop Signal. Lading shifted over Side or End of Car Swinging Car Door or Other Dangerous Condition.

RULE 835. Cabooses must not be kicked or dropped against other cars, nor other cars kicked or dropped against them.

When a caboose is kicked or dropped, a member of the crew must ride it. Hand brake must be tested before movement is started.

When coupling to a caboose, or coupling a caboose to other cars, movement must be stopped about ten feet from coupling and then moved slowly to a coupling.

If practicable, occupants of caboose must be warned in advance of impending couplings.

Persons occupying cabooses must brace themselves and remain

seated while coupling is being made. Switching at terminals with a caboose between engine and cars or with cars and caboose ahead of engine is prohibited except a cut of cars may be pulled with caboose to point where caboose is to be set over.

RULE 838. The use of helper engines behind cabooses is prohibited except in emergency when it may be impossible to handle otherwise.

RULE 882. No person will be permitted to ride on an engine without a written order from the Vice President and General Manager, except employes in the discharge of their duties and those holding transportation endorsed to that effect.

RULE 927-TRAIN INSPECTION. When conditions are favorable and in judgment of conductor it is safe to do so, run may be made for train inspection on freight and mixed trains on First and Second Subdivisions, from one water stop to next water stop, except a maximum distance of 70 miles must not be exceeded between inspections. When conditions are favorable and in judgment of conductor it is safe to do so, run may be made on freight and mixed trains on Third and Fourth Subdivisions without stopping for train inspection for a maximum distance of 45 miles, except a standing or rolling inspection must be made on westward freight and mixed trains at Blairsden, Two Rivers or Sloat and at Halls Flat, Westwood, Almanor and Greenville and on eastward freight and mixed trains at Keddie or at some point between Keddie and Spring Garden and at Westwood and Halls Flat.

Trains containing carload shipments of TNT, bombs, loaded projectiles and other such articles of a highly sensitive nature must be stopped for inspection at intervals of not to exceed 50 miles unless all such cars are loaded less than 65 percent of marked capacity.

AIR BRAKE RULES

RULE 24-B. On passenger trains at points where terminal tests are made, when the continuity of the brake pipe is not disturbed, or motive power not changed, the incoming engineman, after making station stop as prescribed by the rules, must apply the train brakes with a 15 pound brake pipe reduction immediately after stopping and without waiting for a signal.

The brake pipe leakage must be noted, then the reduction increased to a total of 20 pounds. The incoming engineman will notify

the outgoing engineman the amount of brake pipe leakage.

Release of the train brakes will be made upon receiving the

proper release signal.

RULES 43-A and 43-B. Freight trains originating or picking up and setting out cars at South Sacramento will make air test under these rules.

RULE 43-B. On trains originating at Keddie, rear end test will be made under this rule.

RULE 44. Running brake test will be made on eastward passenger trains leaving Oakland Pier or Oakland Yard and on westward passenger trains not less than two or more than three miles before reaching SP Crossing MP 13.7.

Running brake test other than above will not be required for

crossings between MP 5.8 and MP 13.7 inclusive.

AUTOMATIC BLOCK SIGNALS

Marysville. See special instructions page 15 under Joint Track Marysville.

Oroville Yard. See special instructions governing movements between Oroville Yard and West End C.T.C., pages 26 and 27 for location and limits.

Keddie. Fourth Subdivision:

Eastward: Two-position color-light signal at west portal Tunnel 1.

Westward: Three-position color-light signal 45 feet east of Tunnel 2.

Two-position color-light signal 60 feet east of east wye switch.

TUNNEL SIGNALS

Two-position, color-light, automatic block signals located 1680 feet west of west portal Tunnel 1 and 50 feet east of east portal Tunnel 2 for protection through tunnels.

DRAWBRIDGE SIGNALS

San Joaquin River Drawbridge MP 80.28. Interlocked. Home signals 650 feet east and 600 feet west of bridge are twoposition, color-light, semi-automatic (SA) signals and indicate posi-

Three-position, color-light, automatic block signals 823, located 9300 feet east of east home signal, and 786, located 8100 feet west of west home signal, are approach signals for westward and eastward trains.

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Oakland. Street Crossing at Third and Broadway must not be blocked.

A westward first-class train finding an eastward first-class train at passenger station will not pass Franklin St. until eastward train leaves station. An eastward first-class train finding a westward first-class train at passenger station will not pass Clay St. until westward train leaves station.

Joint WP and SP drill track between Melrose and Elmhurst must not be used for meeting or passing trains. Crossover between drill track and west end of Elmhurst siding must not be used by road crews. Normal position at west end of crossover lined for drill track and at east end lined for crossover.

Kohler. Seminary Avenue crossing is protected by flashing light signals, but trains and yard engines using this siding must cut crossing when blocked more than five minutes.

85th Avenue, Oakland. Any engines or cars moving over spur serving California Packing Corporation must be under control and highway traffic protected by member of crew.

Hayward. Freight trains doing switching will leave train outside of limits of bonded rails operating crossing bells at "A," "B" and "C" Streets and will use engine whistle and bell only when necessary to comply with the rules.

Dispatcher's telephone installed in baggage room.

Niles. Look out for gravel trucks using crossing over main track, siding and back track just west of station.

Tunnel 1. Markers must be burning through Tunnel 1.

Sunol. Cars must not be left on house track spur within 75 feet of either side of Crossing No. 4-36.0.

Altamont. Under no circumstances may cars be left on either leg of wye.

Carbona. Normal position of all switches leading from siding is lined for the siding. Normal position of the east house track switch and of the two inside crossover switches east of depot is for east leg of wye and storage track. When not in use these switches must be left lined for the normal route. Track on north side of main track may be used as an auxiliary siding. (See paragraph (P) page 24.)

Engines must move with extreme caution not exceeding 3 MPH while moving over frogs and switches and around curves on Tomato Spurs.

Army Supply Depot. A tail track, capacity 54 cars, is connected with switching track at west end. Normal position of all switches in switching track or tail track is lined for switching track. Do not exceed 10 miles per hour on interchange trackage with Army Supply Depot. (See paragraph (S) page 25.)

Ortega. Siding is a storage track. It must not be used by road crews as entrance or departure track to or from Stockton Yard.

Stockton Yard. Forty car siding on south side of main track between MP 92.09 and MP 92.54 will be known as "Diner Siding Stockton Yard." Trains may meet or be restricted at this siding by train order. Unless otherwise specified as above, timetable and train order times of first-class trains at Stockton Yard will apply at lead switches MP 91 and Charter Way.

Stockton Yard. Westward freight trains will enter Stockton Yard at lead switch immediately west of Charter Way, MP 92.7.

Stockton. Engines and cars must be brought to a stop at Country Club Highway crossing on North Channel Line and must be preceded by flagman over crossing.

Bridge over Smith Canal, North Channel Line, will not clear man on top of high car.

Terminous Jct. Road Crossing No. 4-105.7 must not be blocked more than five minutes. When a train stops at Terminous Jct. and there are three brakemen in crew, one brakeman must protect this crossing during time train is not cut.

South Sacramento. The first street crossing west of South Sacramento, Sutterville Road, must not be blocked by freight trains taking water, oil, or doing work. Eastward freight trains will, when necessary to avoid blocking this crossing, leave train west of crossing while taking water or oil, or switching.

Sacramento. Trains or engines must not exceed eight miles per hour over street crossing at 5th and "R" Streets.

Westward passenger engines and trains must not leave depot until engineer knows that wigwag on "K" Street is in motion and eastward passenger engines and trains must not leave depot until engineer knows that wigwag on "J" Street is in motion. If wigwag fails to operate a member of crew must precede engine or train over crossing.

When road engines are detached from eastward passenger trains to permit yard engine to perform switching, road engine must move beyond alley between "G" and "H" Streets. This will actuate crossing signals at "H" Street on return movement westward after yard engine is into clear with switch closed.

Marysville. Spur track known as Cliff House Spur will not hold more than ten cars.

Joint Track Marysville. Sacramento Northern freight trains operate over Western Pacific main track between junction switch 355 feet west of Bridge 178.18, Yuba River and west siding switch and over WP siding between west switch and switch leading to Sacramento Northern track opposite Western Pacific passenger station, Marysville. These tracks are designated as Joint Tracks.

Derail switch on siding 193 feet east of switch, pipe connected and operated with main track switch.

Junction switch west of Bridge 178.18 must be locked for Western Pacific main track and junction switch on siding must be locked for siding when not in use.

Movement of Trains over Joint Track will be governed by Rule 663 and made in accordance with indication of signals regardless of superiority. All trains of both railroads must approach and pass through limits of Joint Track with caution, not exceeding 25 miles per hour. In using Joint Track freight trains should avoid delays to other trains of either railroad.

Automatic Interlocking signals (color light type) govern Joint Track operation as follows:

Eastward. Distant signal MP 177.2, 4528 feet west of home signal. Home signal 777 feet west of Bridge 178.18. Semi-automatic (SA) Home Signal located 45 feet west of SN junction switch east of Bridge 178.18.

Westward. Home signal 722 feet east of Bridge 178.18.

Double Switch Indicators.

SN junction switches east and west of Bridge 178.18. West siding switch.

West switch interchange track.

Automatic Block Signals (color light type) located as follows:

Eastward. Signal 1772, which is interlocking distant signal, is also three-position automatic block home signal for eastward trains. All trains must approach this signal prepared to stop if indication displayed per Rule 501, Fig. 5. Signal is approach lighted; length of approach circuit 4022 feet. Sign reading "ABS one mile" located one mile west of signal.

Home signal MP 178.8. Home signal MP 179.4, 255 feet west of east siding switch. This signal also indicates position of west inter-

locking home signal Binney Jct.

Dwarf signal between main track and siding 223 feet west of east siding switch governs movements eastward from siding to main track and also indicates position of west interlocking home signal Binney Junction when switch lined for movement. Signal aspect does not change until three minutes after switch is lined for movement. Double switch indicator located at east siding switch.

Westward. Home signals MP 179.5 and MP 178.9.

Double Switch Indicators.

East switch interchange track.

Crossover near passenger station (governs both switches).

CARS REVOND THUS CORDT as cold lover breat at a point approximately for its advance of the relieve at placet of relieved at relieved at respect to the respect to the

Crossover MP 179 (governs both switches).

Switch of SP interchange track.

East siding switch.

East high line switch MP 179.7.

Markers must be burning through Tunnels 4, 5, 23, 33 and 35.

Land. Engines heavier than C-43 class must not use tracks 2, 3 and 4 except at west end of yard on tangent track.

C-43 and smaller class engines may use all tracks in entire yard at a moderate speed and may use east lead as far as a derail and a sign reading "WPRR engines must not go beyond this point" located 125 feet east of extreme east switch of interchange yard with the Feather River Railway Co.

No. 1 track, which is a crossover from siding to east end of yard, and No. 2 track used as a run around track, must be left clear. All classes of engines may use siding entire length.

Blinzig. Water may be obtained at Blinzig, MP 228.6.

Camp Rodgers. West connected switch to tracks serving PG&E Co. located in siding 1472 feet east of west siding switch. Hayes derail to prevent cars running out on siding is on lead track 200 feet east of connecting switch. Cars must not be left on grade on lead track between connecting switch and switch-back 550 feet from east end of lead track. Unless some portion of train is left on Camp Rodgers siding derail must be set in derailing position while engine is on PG&E tracks and thereafter siding must not be entered without permission of dispatcher (See Rule 772). See instructions in Sections (I) and (M), CTC Special Instructions, page 28, covering derail in siding.

Keddie. When calling in flagman from east on Fourth Subdivision enginemen will sound six long blasts of whistle.

Blairsden. Mallet and Mikado engines may use house track at Blairsden. Trains setting out or picking up on this track must have air cut through and operative.

Movement over Mill track between Blairsden and Graeagle must be made with air cut through and operative.

A sign reading "TRAINMEN PROHIBITED FROM RIDING CARS BEYOND THIS POINT" erected over tracks at a point approximately 60 feet in advance of log rollway at plant of California Fruit Exchange, Graeagle. Sign to be illuminated at night. Trainmen must obey this sign in interest of SAFETY.

On Graegle Spur do not exceed 8 MPH between main track switch and derail at switch leading to box factory and 4 MPH beyond this derail.

Crews spotting moulding mill at Graegle must hold onto nine cars including cars to be spotted.

Markers must be burning through Tunnels 1, 2, 3, 6 and 8.

Keddie. When calling in flagmen from east on Fourth Subdivision enginemen will sound six long blasts of whistle.

Box. Engines or cars must not be moved over highway crossing on Box Spur just east of Greenville without being brought to a stop and highway traffic protected in both directions by a member of crew.

Clear Creek Junction. The 33-car siding is the interchange track with Almanor Railroad Company and trackage between Western Pacific main track switch and yard limit board 2000 feet beyond end of the 33-car siding toward Chester is joint track for interchange purposes. Operation over this trackage is under transportation rules governing operations within yard limits. Switch point derail on Almanor RR main track 400 feet from junction switch.

Westwood. Following instructions govern movements over crossings at Veneer Plant and Third Street (east and west of passenger station):

Trains meeting at Westwood must not block these crossings. Trains or engines using main track over crossings will run prepared to stop before hitting anything on or about to use the crossings. Between the hours of

Between the hours of
7:20 a.m. and 7:30 a.m.
11:30 a.m. and 11:40 a.m.
12:20 p.m. and 12:30 p.m.
13:30 p.m. and 4:40 p.m.
13:30 p.m. and 4:40 p.m.
14:30 p.m. and 4:40 p.m.
15:20 p.m. and 15:30 p.m.
16:20 p.m. and 16:20 p.m.
17:20 p.m. and 16:20 p.m.
18:20 p.m. and 18:20 p.m.
19:20 p.m. and 18:20 p.m.
19

Any crossing must be cut immediately upon request of plant gate watchman for impending movement of ambulance or fire apparatus and kept clear until released by him.

Movements of trains or engines on any tracks other than main track over any crossings in yard must be preceded by flagman.

Derail on west end F. G. S. Co. electric siding must be kept in derail position when cars are on siding. East switch of F. G. S. Co. electric siding must be left lined for siding. Derails adjacent to main track on both legs of F. G. S. Co. wye. Switch leading from west end of house track to gravel bin spur must be left lined for gravel bin spur to serve as derail.

Little Valley. Water at MP 96.0, Little Valley, not suitable for human consumption. Water peddlers and gang water cars must not be filled at this point.

RULE 840. When cars are set out at Cohala, Jellico, Willow Springs or Little Valley, in addition to provisions of Rule 840, lower car must be chained to rail and Dispatcher notified.

INTERLOCKING PLANTS AND SIGNALS AND RAILROAD CROSSINGS NOT INTERLOCKED

MP 5.8—SP Crossing and MP 5.9—Chestnut Junction, Magnolia Tower. Interlocked.

Eastward: Two arm home signal 700 feet west of crossing; upper arm governs movement on main track; lower arm governs movement on main track to north track. Dwarf signal 490 feet west of crossing governs movement from siding eastward to main track or north track. No distant signals.

Westward: Home signals (on bracket mast) 750 feet east of crossing. Arm to right governs movement from north track over junction switch to SP or WP Yards. Arm to left governs movement from main track over junction switch to SP. Suspended home signal governs movement main track to WP Yards. No distant signals.

Eastward whistle signals: Old Yard to main track — one long; to north track — One long, one short and one long. No. 1 track old yard to main track — One short and one long; to north track — One short, one long and one short.

MP 7.2 SP Crossing. Main Track and North Track. Not interlocked. Protected by manually operated gates. When SP engines or cars are using SP track gates will be across both WP tracks and indicate "STOP" to movements on WP in either direction. Trains must approach under control and not proceed over this crossing unless it is known to be clear.

MP 7.7 Clinton, SP Crossing. Interlocked. Color-light type home signals 565 feet east and 440 feet west of crossing. Dwarf signal between main track and north track 240 feet west of crossing.

Color-light type Automatic Block Signal 83, 2000 feet east of east home signal and Automatic Block Signal 74, 1450 feet west of west home signal, are approach signals for westward and eastward trains on main track. No approach signal for eastward trains on north track.

Home signals west of crossing, both main track and north track are semi-automatic (SA) absolute block signals. When these signals indicate STOP trains will be governed by Rules 663 and 311.

Home signal east of crossing is a two-unit semi-automatic (SA) interlocking signal with "S" unit on mast. Upper unit governs movement over crossing to main track. Lower unit governs movement over crossing to north track after switch has been lined. When this signal indicates STOP trains will be governed by Rules 663 and 509. The "S" unit on mast is controlled by the train dispatcher and must be illuminated before switch is changed for entrance to north track on westward movement. After switch is changed lower unit on signal will display indication for move.

MP 10.6 and MP 10.7 Melrose Tower, SP Crossings. Interlocked. Home signals 450 feet west of crossing MP 10.6 and 685 feet east of crossing MP 10.7 are color-light type semi-automatic (SA) signals (not absolute block signals). Approach indication for eastward trains is provided on eastward absolute block signal MP 9.9 - 35th Avenue and approach indication for westward trains is provided on westward absolute block signals at east and west Kohler.

MP 13.7 Elmhurst, SP Crossing. Automatic interlocked. Home signals 523 feet east and 536 feet west of crossing are color-light type semi-automatic (SA) signals (not absolute block signals).

Color-light type Automatic Block Signal 126 located 4800 feet west of west home signal is approach signal for eastward trains. Approach indication for westward trains is provided on westward absolute block signal west end San Leandro.

East switch to Elmhurst siding is within home signal limits and movement over this switch to the main track is governed by a color-light dwarf semi-automatic (SA) home signal located at the clearance point.

For movement siding to main track stop train within 250 feet of dwarf signal. Call train dispatcher and when given permission by him in accordance with Rule 317 open door on electric lock and proceed according to instructions posted therein.

For movement from main track to siding, stop train between home signals and at least 50 feet east of switch points. Call train dispatcher and when given permission by him open door on electric lock and proceed according to instructions posted therein.

Electric lock is not equipped with an emergency release. If lock does not release west siding switch should be used. If main track home signal indicates STOP upon the approach of a train, or if dwarf home signal indicates STOP with switch in the reverse position, send flagman to crossing to follow instructions posted in WP time release housing. If the time release is operated and the signal continues to indicate STOP, be governed by Rules 663 and 509.

Cars left on Elmhurst siding must be placed at least 300 feet west of dwarf home signal to avoid occupying approach lighting circuit.

MP 30.3 Niles Tower, SP Crossing. Interlocked.

Home signals 450 feet east and west of crossing, are three-position, color-light, semi-automatic (SA) signals.

Approach indication for eastward trains to both eastward absolute block signal east Niles and home interlocking signal SP crossing is provided on eastward absolute block signal at west Niles. Approach indication for westward trains is provided on westward absolute block signal at east wye switch, Niles Jct.

MP 42.7 and MP 43.0 Radum Tower, SP Crossings. Interlocked.

Home signals 480 feet east of crossing MP 43.0 and 480 feet west of crossing MP 42.7, are two-position, color-light, semi-automatic (SA) signals.

Approach indication for eastward trains is provided on eastward Absolute Block Signal east Pleasanton. Three-position, colorlight, automatic block signal 445, located 7400 feet east of east home signal, is approach signal for westward trains.

Towerman on duty daily except Sundays and holidays. During hours towerman is off duty normal operation of signals on WP will be semi-automatic.

In order to avoid delay to trains on opposing route while doing work at Radum train must be left outside of interlocking plant circuit governed by home signals.

MP 74.0 Lyoth Tower, SP Crossing. Interlocked.

Home signal 700 feet west of crossing is three-position, colorlight signal.

Home signal 600 feet east of crossing is three-position, colorlight, two-unit signal. Upper unit governs main track and lower unit governs movement over crossing and into east end Lyoth siding.

Dwarf signal located between main track and siding governs movement from siding to main track.

All three signals are semi-automatic (SA) absolute block signals. Trains stopped by these signals will be governed by interlocking rules within the interlocking limits and A.A.B.S. rules for movements beyond interlocking home signals in main track blocks.

Approach indication for eastward trains is provided on eastward absolute block signals at east Carbona and for westward trains on westward absolute block signals west Fitz.

Following are whistle signals: Westward trains desiring to enter siding — one long, one short. Eastward trains desiring to leave siding — one short, one long.

In order to avoid delay to trains on opposing route while doing work at Lyoth train must be left outside of interlocking plant circuit governed by home signals.

MP 84.45 SP Crossing. Interlocked.

Home signal 650 feet east of crossing is two-position, color-light, semi-automatic (SA) signal and home signal 650 feet west of crossing is three-position, color-light, semi-automatic (SA) signal.

Three-position, color-light, Automatic Block Signal 828, located 8250 feet west of west home signal, is approach signal for eastward trains.

Approach indication for westward trains is provided on westward absolute block signals west Lathrop and on dwarf signal at crossover west end of Army Supply Depot track.

When switching is done on main track at east Quigley, west Lathrop or crossover west end of Army Supply Depot track, signal operator in SP depot Lathrop must be notified by telephone length of time to be used so signal lineup may be changed if necessary and must also be notified when switching is completed. Telephones located near east switch Quigley, at crossing, and in A.A.B.S. booths west Lathrop and crossover west end Army Supply Depot track.

Maximum speed head end of train between home signals, passenger trains 30 MPH, freight trains 25 MPH.

MP 90.5 Ortega Tower, SP Crossing. Interlocked with Hunter Street track.

Home signals 450 feet east and 230 feet west of crossing on

Hunter Street track. No distant signals.

Home signal 450 feet east of crossing is semi-automatic (SA) absolute block signal governing entrance to main track block on westward moves. Connecting switch to main track MP 90.42 must be thrown by hand. If this signal is in STOP position be governed by Rule 663 within interlocking limits and Rule 311 before fouling main track. Telephones for communicating with dispatcher located in tower and in booth adjacent to main track absolute block signals

Towerman on duty 6:00 p.m. to 3:00 a.m. daily except Sunday.

MP 93.2 AT&SF Tower, AT&SF Crossing. Interlocked. Home signal 450 feet east of crossing. No distant signal. Two-arm home signal 450 feet west of crossing, upper arm governs movement on Western Pacific main track, lower arm governs movement to and over AT&SF main tracks to interchange track. Reflectorized amber approach warning sign located on "RR Crossing One-half Mile" sign 2190 feet west of west home signal. Tower equipped with electric siren. Two short blasts repeated several times is warning to yard and trainmen to clear plant.

Whistle signals: For main track movement both directions one long. For movements to and from water front — three short

and one long.

MP 93.8 Weber Avenue Tower, SP Crossing. Interlocked. Main Track: Home signals 423 feet east and 315 feet west of crossing. No distant signals. Siding: Home signals 428 feet east and 73 feet west of crossing.

MP 95.1 El Pinal Tower, SP Crossing. Interlocked. Home signals 650 feet east and west of crossing. One distant signal 3000 feet east of east home signal.

MP 137.5 "X" Street, CCT and SN Crossing. Automatic interlocked. Home signals 450 feet east and west of crossing. Distant signal 1480 feet west of west home signal. Distant signal, permanently at caution, 1270 feet east of east home signal. If signals are in STOP position send flagman to crossing to operate time release inside box at crossing. Instructions for operation of time release inside of box. If signals remain in STOP position, be governed by Rule 663.

Hayes derail 171 feet east of west switch to interchange track is pipe-connected to main track switch stand and switch must not

be closed until rear of train has passed derail.

be closed until rear of train has passed derail.

Switch indicators at head block west switch to interchange track and at entrance switch to Sutton-Morf Tractor Company spur give warning of approach of trains on WP, CCT and SN. When these indicators show "block occupied" and no train or engine is seen or heard approaching, protection must be provided for movement over crossing per Rule 633 (c) after necessary protection has been provided on WP tracks for opening switch and movement made onto WP main track made onto WP main track.

MP 138.0 "R" Street Tower, SP Crossing. Interlocked. Two-arm semaphore type home signal 796 feet east of crossing. Upper arm governs main track; lower arm governs leg of wye. Two-unit color-light home signal 700 feet west of crossing. Upper unit governs main track; lower unit governs leg of wye. No distant signals.

Dwarf signal on east leg of wye 165 feet from main track switch governs movement from "R" Street line to main track.

Two-arm dwarf signal on west leg of wye 800 feet from main track switch. Upper arm governs movement from "R" Street line over crossing to WP main track; lower arm governs movement over crossing to California Builders' Supply spur.

Spur serving Valley Wholesale Grocery Co. connected with west leg of wye with switch facing west. Normal position of switch is

lined for spur. Indication on eastward home signal on main track is same for movements from main track to either "R" Street line or to spur. Crews desiring to enter spur must advise towerman. Switch cannot be changed while engine or cars are between home signals of plant. Two-position color-light signal on spur governs movements out of spur track.

Following are whistle signals: Main track to wye, either leg, one long, one short. Wye to main track, either leg, one short, one long.

MP 139.2 "C" Street, SN Crossing. Automatic interlocked. Home signals 480 feet east and 450 feet west of crossing. Distant signals, permanently at caution, 3190 feet east and 1584 feet west of home signals. If signals are in STOP position send flagman to crossing to operate time release in box at crossing. Instructions for operation of time release inside of box. If signals remain in STOP position be governed by Rule 663. Switch indicator at head block main track switch to Haggin transfer track gives warning of approach of trains

on WP and SN. Hand operated derail on Haggin transfer track 226 feet east of west main track switch.

MP 140.8 Globe, SN Crossing. Interlocked. Manual control twoposition color-light signals, approach lighted. Home signals 605 feet east and west of crossing. Distant signals 4200 feet east and 3032 feet west of home signals. Maximum speed head end of train between home signals, passenger trains 30 miles per hour, freight trains 25 miles per hour.

MP 152.5 Sankey, SN Crossing. Automatic interlocked. Home signals 600 feet east and west of crossing. Distant signals 3000 feet east and west of home signals. All signals color-light type approach lighted. If signals are in STOP position, send flagman to crossing to operate time release in box at crossing. Instructions for operation of time release inside of box. If signals remain in STOP position, be governed by Rule 663.

Joint Track Marysville. (See special instructions page 15, Second

Subdivision.)

MP 180.2 Binney Jct. Tower, SP Crossing. Interlocked. Home signal 680 feet west of crossing SP main track. Automatic Block Home Signal 1794, located 3722 feet west of home signal, and Dwarf

Signal 1796 on siding are also distant signals for Binney Jct.

Semi-Automatic (SA) home signal 644 feet east of crossing.

Distant Signal 1811, 4598 feet east of home signal, is also threeposition automatic block home signal for westward trains. All trains must approach this signal prepared to stop if indication displayed per Rule 501, Fig. 5. Signal is approach lighted; length of approach circuit 4039 feet. Sign reading "A.B.S. one mile", located one mile east of signal.

All signals are of color-light type.

San Jose Branch.

MP 19.6 SP Crossing. Not interlocked.

MP 20.2 Willow Glenn, SP Crossing. Interlocked. Semi-automatic (SA) home signals 225 feet east and west of crossing. No distant

MP 22.3 West San Jose, SP Crossing. Interlocked. Home signals

250 feet east and west of crossing. No distant signals.

All trains must come to STOP at home signals, Willow Glenn and West San Jose crossings and a member of crew go to crossing and carefully follow instructions pasted inside of derail lock box at each crossing before proceeding over either crossing.

SPECIAL INSTRUCTIONS—ALL SUBDIVISIONS

SPEED RESTRICTIONS

Speed restrictions in miles per hour will apply as follows:

el di	ppronch lighted. Home signals B	Pass	enger	Fre	eight
Page No.	BETWEEN	Maxi- mum	Restric- tion	Maxi- mum	Restri
2-3	First Subdivision	Tuesday.	- CO.	70.17	1
	Chestnut Jct. and Clinton	15		10	
	Washington and Franklin Sts.,	artela e	8	In a	
	Oakland	EEE PL	10		10
	MP 7.7 SP Crossing Clinton (see	zog mi	10	44.	10
		94.10	15		10
	Page 18) Clinton and E. Yard Limit		STORY STATE		1333
	Oakland MP 13.78	20		20	and:
	MP 9.5 just east 29th Avenue and MP 9.8 just east Fruitvale		Steven (See	2 12 1 4	100
	Avenue		10	of Des	10
- 1	MP 13.78 and Stockton	60	of 107	40	
	Bridge just west of San Leandro		mattrix i	7.790 m	THE STATE OF
	Depot and Williams Street, 5		20	The lim	15
	over "A" and "B" Streets,		20		10
	Hayward		45		30
	MP 23.93 and MP 24.31	1	45		30
	MP 29.4 on curve		40		30
	Niles and MP 37	• •	50		30
	Through Tunnels 1 and 2 MP 38.6 on curve SP underpass		40		30
	MP 40.0 on curve		55	or the first	
	City Limits Pleasanton	371	15		15
	City Limits Livermore		25		20
	MP 52 and MP 53 on curves		45		30
	MP 53 and MP 54 on curves MP 54 and MP 67 on curves		35 50		35
	MP 58.0 on curve at sink		45	1	30
	San Joaquin River Drawbridge	***	10	1519	
	MP 80.28	010.	20		15
	MP 84.45 SP Crossing (see Page		-00	Division of	0.
	MB 00 and MB 02 5 an aurus		30		25
	MP 90 and MP 92.5 on curves Charter Way and Stockton		45		00
	Depot, Main Track		20		20
	Other Tracks		8		8
	Over interlocking crossings		40	• • •	25
4-5	Second Subdivision				
	Stockton and MP 122	60		40	
	Stockton Depot and over Hard- ing Way, Main Track		20		90
	Other Tracks		8		20
	MP 116.07 Mokelumne River		- Cupt	mile	1
	Bridge		35		35
	Bradford Spur	÷		::	10
	MP 122 and MP 133.5 MP 133.5 and MP 155	50 60		35 40	
	Over and between Sutterville	00		40	
	Rd. and "C" St., Sacramento		15		15
	MP 140.8 SN Crossing (see Page				
	MD 170 7 GN Consider (ass Barre		30		25
	MP 152.5 SN Crossing (see Page		30	T. H.	25
	19)MP 155 and MP 171	50		35	-
	MP 171 and MP 185	60		40	
	On curve at Cleveland		50		35
-	Joint track Marysville (see Page		25		01
	15) MP 185 and MP 197	50	25	35	25
	MP 197 and Oroville	60	1::	40	1
	MP 201.8 on curve		40		25
- 10	Over interlocking crossings		40		25
6-7	Third Subdivision	***	de		
	Oroville and Bidwell Bidwell and Bloomer	50 40		35	
	Bloomer and MP 272.57 (Grays	40		30	
	Flat)	35		25	
	D 11 000 00		25		20
	Bridge 252.60	5.5	-		
	MP 272.57 and Quincy Jct	40		30	1 ::
	MP 272:57 and Quincy Jct Over Switch East end Tunnel 32 Quincy Jct. and Portola		20	30	20

SPEED RESTRICTIONS—Continued

Speed restrictions in miles per hour will apply as follows:

	attained in the speciment of the	Pass	enger	Fr	eight
Page No.	BETWEEN	Maxi- mum	Restric-	Maxi- mum	Restric-
8-9	Fourth Subdivision Keddie and Crescent Mills Crescent Mills and Greenville Greenville and Clear Creek Jct. Clear Creek Jct. and Mason	35 40 35 35		25 40 25 30	
	Clear Creek Jct. and Westwood, on curves	 40 35	25 20 	 40 25	25 20
	ourves. On curve west mile board Willow Springs. Pit River and Bieber.	40	25 25	30	15
10	San Jose Branch	30	iż	25 	iż
11	ings within city limits, San Jose Carbona Branch	iż	5	iż	5
	Terminous Jct. and Garden Garden and Terminous	20 15		20 15	

Passenger trains consisting of conventional passenger equipment or of mixed streamline and conventional equipment when handled by passenger diesel power will be governed by restrictions applying to steam powered passenger trains.

MAXIMUM SPEEDS:

On curved track Third Subdivision enginemen will reduce speed below the maximums provided where necessary to insure safety.

Engines backing-20 miles per hour on straight track. On curves and where track conditions are unfavorable speed must be reduced further to a rate consistent with safety.

Engines running light on main track or branches-speeds prescribed for freight trains.

M-80 Class engines, All Subdivisions-35 miles per hour.

GS-64-77 Class Engines (Nos. 481-486) must not exceed speeds indicated below over following bridges: Bridge 18.80.....45 MPH Bridge 39.40.....45 MPH 49.88.....45 20.87.....45

22.11.....45 35.09.....35 53.40 45 " " * ** 116.28.....45 " 37.12.....45 ** 204.82 30 37.36.....45

M-137-151 Class engines:

Handling passenger trains....speeds prescribed for freight trains
Over Bridge 317.43.....25 miles per hour in trains or light
Second Subdivision....30 " " " " " " " Second Subdivision.....30 Fourth Subdivision

Btw. Keddie and Greenville....25 Greenville and Almanor...20 Almanor and Westwood...25 44 44 66 " " Westwood and Halls Flat...30 "

Halls Flat and Bieber.....25 ** Halls Flat and Bieber, on curves descending grade.20 While engine passing through

crossovers or turnouts..... 5 Passenger trains with cabooses on rear or when handled by C-43, MK-60 or MK-60-71 engine—50 miles per hour.

Trains handling Southern Pacific scale test car will not exceed 40 MPH.

Trains handling steam derricks, steam shovels, cranes, rotary plows or pile drivers, 25 miles per hour First and Second Subdivisions, 20 miles per hour Third and Fourth Subdivisions.

Trains handling triple loads of poles, 20 miles per hour Third and Fourth Subdivisions and between Carbona and Oakland.

Trains handling logs, 25 miles per hour. When two trains meet, either of which are handling logs, the standing train will remain standing until other train has cleared or come to a stop unless necessary to saw by. Maximum speed of train passing, 15 miles per hour.

All trains or engines through turnouts, crossovers, sidings and other inside tracks, 10 MPH.

MISCELLANEOUS

Dead engines handled in trains must be placed approximately 10 cars behind train engine.

When steam derrick is handled with Mallet or D-225 engine, there must be at least two cars between engine and derrick.

DOUBLEHEADING. When D-225, M-80, M-137-151, GS-64-77, MK-60, MK-60-71 or MTP-44 engines are in a train with another engine of any class, either in service or dead, they must be spaced at least 10 cars apart, except MTP-44 engines may be doubleheaded with TP-29 engines; on Third Subdivision and between Stockton Yard and Altamont MTP-44 engines may be doubleheaded with C-43 engines may be doubleheaded with C-43 engines may be doubleheaded. gines; on First and Second Subdivisions MK-60 or MK-60-71 engines may be doubleheaded with TP-29 engines, and on Fourth Subdivision M-80, MK-60 or MK-60-71 engines may be doubleheaded with C-43 or TP-29 engines; also two M-80 engines, a D-225 and M-80 engine or an M-137-151 and M-80 engine may be doubleheaded between Bieber and Halls Flat.

In emergency D-176 Passenger Diesel engines may be double-headed with TP-29, C-43, MTP-44, MK-60, MK-60-71, M-80 or D-225 engines.

When a TP-29 engine is doubleheaded on a passenger train over a passenger district with another engine of greater pump capacity it should be placed next to train. When used as a helper over part of the passenger district it should be placed in the lead, except when train consists of more than 16 cars, in which case the TP-29 engine should be next to train unless emergency or other causes make it impossible to do so.

MK-60 or MK-60-71 engine being doubleheaded with TP-29 engine will not exceed 35 miles per hour over Bridges 24.31, 29.24, 35.09, 37.12, 38.69, 49.88, 53.40, 56.96, 64.43, 79.41, 80.37, 116.28, 116.37 and 166.25.

MTP-44 engine being doubleheaded with TP-29 engine, C-43 engine being doubleheaded with C-43 or TP-29 engine, or running light coupled, will not exceed 35 miles per hour over Bridge 64.43.

MTP-44 engine being doubleheaded with C-43 engine, or running light coupled, will not exceed 35 miles per hour over Bridges 56.96, 64.43, 79.41 and 80.37.

MK-60 or MK-60-71 engine and M-80 engine being doubleheaded with C-43 or TP-29 engine on Fourth Subdivision will not exceed 25 miles per hour over Bridges 9.04, 9.29, 9.45 and 9.79.

TRIPLEHEADING of locomotives of any class, running light or handling train, is prohibited.

DIESEL ENGINES. Diesel freight engines dead in train must have qualified messenger. In both cabs automatic brake valves must be cut out and brake valve handles locked in running position; independent brake valve handles locked in running position (locking pins are provided for this); dead engine features cut in; all isolation switches placed in "start" position; all switches at engineer's control stand locked in "off" position and main battery switches pulled; reverses locked in neutral position in all units. Messenger should watch brake cylinder pressure in cab nearest to locomotive handling train. Distributing valve pops must be set to 25 pounds pressure. Maximum speed 60 miles per hour.

Diesel switch engines dead in train must have qualified messenger. Automatic brake valve must be cut out and handle placed in running position; distributing valve pop set to 15 pounds pressure; dead engine feature cut in; main battery switch pulled and reversers locked in neutral position. Maximum speed 45 miles per hour.

During freezing weather engine water cooling system must be drained on any type Diesel engine being towed.

TONNAGE RATING

	1st	2nd	3rd		4th Subdivision	
Engine Class	Sub- division	Sub- division	Sub- division	Keddie to Greenville	Greenville to Almanor	Almanor to Bieber
Eastward	Lucipins	1 10	vued to	DEC.	Sport Louis	A Torkenberry
TP-29	1073	2200	812	585	401	585
MTP-44	1650	5000	1250	900	617	900
C-43	1650	5000	1250	900	617	900
MK-60	2500	6000	1800	1250	858	1250
MK-60-71	2700	6000	1800	1250	858	1250
GS-64-77	2800	6000	1900	1250	858	1250
M-80	3000	6000	2200	1690	1170	1690
M-137-151	5000	6000	4000	2800	1900	2800
D-176**	2800	6000	1900	1250	858	1250
D-225***	5800	6000	4000	3400	2000	3400
				Bieber to Halls Flat	Halls Flat to Keddie	
Westward				101	1010	
TP-29	910	2200	1 :	491	1040	symard,
MTP-44	1400	5000	1 :	756	1600	
C-43	1400	5000	1 :	756	1600	
MK-60	2350	6000	1	1051	2200	
MK-60-71	2500	6000	-	1051	2350 2450	mT hed Test
GS-64-77	2500	6000		1051	3500	
M-80	2600	6000	*	1427 2200	5500	P.C
M-137-151	4000	6000		1051	2450	
D-176** D-225***	2500 5000	6000		2800	6000	med Ston

*Descending grade, no tonnage limit.

**Reduce 33½ % of tonnage rating for each inoperative Diesel unit.

***Reduce 25% of tonnage rating for each inoperative Diesel unit.

Add five tons friction for each car over 30 cars.

Tonnage rating based on maximum grade each subdivision; between points where grades are less than maximum, greater tonnage can be handled.

Las Viona http://www.direction.com/directions.com/d

Bradford Wlevry MTP-44 or heavier Beyond keep

TRACKS ON WHICH ENGINE MOVEMENTS RESTRICTED

of Track	Class of Engine	Prohibited
Oakland, Kaiser Ready-Mix Spur	C-43 or heavier	Beyond frog
Balloon track	MTP-44 or heavier	000131-1719
San Leandro, L. A. Young Spring and		
Wire Spur	MTP-44	Beyond frog
Lady's Choice Food Spur	2 1001 1000 0000 1000 0000 0000	03-4-77. 2908 03-40
Caterpillar Tractor Calif. Pack.	MTP-44 or heavier	0.00
Corpn.	a a	"
Hyrup Spur	"	4 Luvren B
Hayward, Farm Produce Spur	a (CD)	a .
Poultry Prod.		
Spur		4
Niles, Transfer Track P.C.A. Gravel Plant	14 1000	On trestle
T.O.A. Graver Flant	All Classes	Beyond trestle
Goad Spur	All Classes	300 feet beyond switch
San Jose Branch	MTP-44 or heavier	On entire Branch from a point one-fourth mile east of Tail of Wye at Niles Jct.**
Radum	All Classes	Beyond frog on all tracks except 1 and 2
	MTP-44 or heavier	Beyond frog
Stock Track Altamont	MTP-44	Beyond frog either leg
	MTP-44, GS-64-77 M-137-151	Beyond frog
Carbona Branch (Main	MTP-44 or heavier	Beyond West Switch
Spur MP 0.5	4	Kerlinger
	u	Beyond frog
Kerlinger		Beyond frogs on siding and on boarding house spur
	C-43 or heavier	Beyond Moy Stock Yards
Lyoth, Standard Oil Spur	All Classes	Beyond sign 225 feet from switch
Stockton, North Channel Spur	MTP-44 or heavier	Beyond frog
	All Classes	Beyond Br. 100.56
Terminous Branch	MTP-44 or heavier	On entire Branch
Villinger Spur	MTP-44 or heavier	On No. 1 track beyond 165 feet from No. 2
	GS-64-77 or heavier MTP-44 or heavier	track switch Beyond frog
Glannvale, Stock Yard Spur		Beyond stock chute Beyond frog
	MTD 44 or bearing	Beyond frog
Bradford Winery	WIII-14 of heavier	Dejond nog
	will-44 or heavier	Beyond clearance point

Tracks on which engine movements restricted (continued)

Location and Description of Track	Class of Engine	Prohibited		
Sacramento, Old House Track (T&XSt) "R" Street Line	MTP-44 or heavier MK-60 or heavier	Beyond frog Beyond 17th Street		
Pleasant Grove, House	the interest of the	Despiration from		
Track	MTP-44 or heavier	Beyond depot		
Trowbridge, Rice Growers Elevator Spo Team Track	ır "	Beyond frog		
East Arboga, Outfit Spur	All Classes	Beyond 300 feet from		
East Arboga, Outilt Spur	I sit solvens at soil	frog		
		Beyond frog		
Cleveland Spur	MTP-44 or heavier	APTIM Inspired to bad		
Marysville, Old SN Frt. Conn.	All Classes	de la		
Old Frt. House				
and Sand Plant	MTP-44 or heavier	4		
Cliff House Spur		terit aleit ten metalä		
	MTP-44 or heavier	a		
High Line	WIII-H OI HEAVIEL	4		
Craig Spur	GS-64-77 or heavier	a		
Vista Robles Spur	GS-04-77 or heavier			
Adelaide Spur (Oroville Yard) Pond Track	MTP-44 or heavier All Classes	u u		
Oroville, High Sierra Pine Mills		Libitado parens 65-17 Imagani II a tam memo		
Spur	MTP-44 or heavier	Beyond clearance point		
SN Transfer Hokes Spur		"		
Mt. Ida Spur	"			
Ehman Spur Sunkist Spur	4	u u		
Land—See special instruction	ons page 16, under	"Third Subdivision"		
Bloomer, River Spur	MTP-44 or heavier	Beyond frog		
	(MTP-44 or heavier	Beyond clearance point		
Berry Creek, House Spur	(All Classes	Beyond water column		
Blinzig Spur	MTP-44 or heavier	Beyond clearance point		
Jarbo Spur	AL .C. A. M. W. MILEO	Beyond 500 ft. from frog		
Grizzly Spur	La restriction of the s	Beyond frog		
Rock Creek, Outfit Spur Highway Spur	a bendida	Beyond clearance point		
Tobin, River Spur No. 1	M-137-151	Beyond Culvert 253.01		
Belden, House Track Spur	MTP-44 or heavier All Classes	Beyond frog Beyond MP 260		
Rich Bar, Outfit Spur	MTP-44 or heavier	Beyond clearance poin		
Virgilia, River Spur	roithm# "roin" e	the broading mobilities not		
Twain, Outfit Spur	Samuel In the same	Beyond frog		
Paxton, House Track	the production	Beyond clearance poin		
Stoddard Spur	College swigs builty	Beyond frog		
Keddie, Kelly Spur	The state of the s	held the Control of the State of		
Depot Back Track Spur	a st laura wine -	Marie Control of the Control		
West Leg of Wye	All Classes	u de la company		
	Deriver Matheway Co	(Except C-43 or lighter may use in emergency)		

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od enteres of care much be cauting about of switch within the reviews of entered the care of the care

Tracks on which engine movements restricted (continued)

Location and Description of Track	Class of Engine	Prohibited
Spring Garden, Stock Track Back Track		West of Stock Chute Beyond frog
Sloat, Log Spur All Mill Tracks	u u	Beyond frog
Cromberg Siding	"	Beyond clearance point
Blairsden, Richfield Oil Spi	ır "	Beyond frog
Graeagle, All Tracks Log Unloading	Communication to	Beyond sign 1166 feet east of house track switch Blairsden
Track	All Classes	Beyond west end log unloading dock Beyond sign at begin- ning of 20 degree curve between west end box factory and moulding mill
Clio Spur	MTP-44 or heavier	Beyond frog
Crescent Mills, Standard Oil Spur	M-137-151 Class	Beyond frog
Box, Setzer Lbr. Co.	Curt Parley to	a mail land
MP K-21.03, Tunnel Spur		A saled mind many
Rollo Spur	the state of the	a or amount foundations of
Clear Creek Jct., Almanor RR	4	AND STATE OF THE PARTY OF THE P
and Standard Oil Spur***	D-225, MK-60, MK-60-71, M-80 and M-137-151 (also SP engines of similar weight and type)	Beyond frog***
Oil Spur off F.G.S. House	and type)	Beyond frog
Track	M-137-151	Beyond frog
Electric Siding	· "	West of crossover
Both Legs F.G.S. Wye All Mill Spurs	M-80 or heavier	Beyond frog
leading off of Track No. 4		a a second
Roundhouse lead	The Randblook Co.	4
Poison Lake, Spur off west leg of wye	All Classes	Beyond frog
Either Leg of Wye	M-137-151 and D-225	Beyond clearance point
Halls Flat, Logging Industry Track	M-137-151 or heavier	Beyond clearance point
West switch F. G. S. Wye at Camp		
Bunyon	M-80 or heavier	Beyond frog
ndian Head Lbr. Co. Spur	MTP-44, MK-60, MF 60-71 and M-137-151	Latterna Detroyers a second
	t least 4 cars to swit	Beyond frog

Track restrictions applying to MTP-44 or heavier engines, do not apply to 551-558 (S-57) and 581-585 (S-60) Class Diesel switch engines, except 581-585 (S-60) Class must be separated from any loaded cars by at least one empty car while handling cars over Smith Canal Drawbridge, North Channel Line, Stockton.

ABSOLUTE AUTOMATIC BLOCK SYSTEM—SPECIAL INSTRUC-TIONS

- (A) Absolute Automatic Block System extends between Clinton, MP 7.7, and entering crossover MP 91 Stockton Yard.
- (B) Trains will operate by timetable and train order authority over First Subdivision but within absolute automatic block system limits will be governed by signal indications which supersede the superiority of trains.
- (C) Trains will maintain their authorized identity, continue to display classification signals and regular trains will respect their timetable schedules through A.A.B.S. limits.
- (D) Signals within A.A.B.S. limits are color-light type. Those at entrance to sidings are located 300 feet beyond switch. As "line switch indicator" thereon may require that trains enter siding, stop should be made back of switch when such signals display STOP indication.
- (E) Telephones for communicating with train dispatcher are located adjacent to all absolute block signals.
- (F) RULE 105. Main track only is included in signal circuits. Sidings and other tracks are not included and trains entering and using such tracks must proceed with caution.
- (G) RULES 282 and 285. At Livermore and Pleasanton, when signal indications require reduction to medium speed, trains will be governed by the following within city limits:

	Between	Passenger	Freight
Livermore-MP 46	.84 and MP 48.3	25 MPH	20 MPH
Pleasanton—MP 41	.12 and MP 41.7	4 15 MPH	15 MPH

- (H) RULE 303. Rule 93 applies within A.A.B.S. limits and trains or engines using main track within yard limits by signal indication or by authority of train dispatcher need not provide flag protection except against first-class trains. Authority from train dispatcher is required to use main track for switching within yard limits same as at stations outside yard limits.
- (I) RULES 311 and 291. When a train is moving through a block under an A.A.B.S. clearance and finds an automatic block signal within the block in STOP position it will not be necessary to walk a flagman ahead but, after stopping, train may proceed at once with caution, not exceeding 12 miles per hour.
- (J) RULE 312. Is modified to the extent that switches not protected by electric locks or signals located between absolute signals at a station may be used for switching without obtaining authority from the train dispatcher provided a part of the train is on the main track within the block at all times. The train dispatcher should be advised when such switching is to be done.
 - (K) RULE 317. Electrically-locked switches located as follows: Elmhurst, east siding switch
 San Leandro, cannery track, east switch
 Niles Junction, west wye switch
 Goad
 Trevarno
 Redmond Cut, east and west switches
 Valpico, east and west switches
 French Camp, east and west switches
 Stockton Yard, Union Stockyards MP 90.3

Telephones for communicating with dispatcher are located in concrete telephone booths adjacent to switches. Instructions for operating electric locks posted in telephone booths adjacent thereto.

In order to release electric locks for entrance to electrically-locked switches (except at Stockton Yard, Union Stockyards) a part of engine or cars must be standing ahead of switch within the release circuit. Release circuit extends from a point approximately 50 feet ahead of switch points to a point approximately 130 feet ahead of switch points, except at Niles Junction. (See special instructions under Section (O) for release circuit at Niles Junction.)

(L) San Leandro. Eastward absolute block signal at west end of siding governs entrance of eastward trains to main track block or siding. Absolute block signal at east end of siding governs entrance of eastward trains to main track block. No signal located on main track at east end of siding and no signal is provided for westward trains to enter siding. Dispatcher may, when desired, instruct westward trains verbally to do so.

Approach indication for eastward trains is provided on eastward interlocking home signal MP 13.7 Elmhurst SP Crossing, which is a semi-automatic (SA) signal.

Cannery Track: East switch is electrically locked. West switch is not locked or signaled. Trains or engines must not clear main track on this track except by specific authority of the dispatcher. Thereafter Rule 310 applies in case of return to main track block through west switch.

Rule 312: Switching authority may be granted by dispatcher between home interlocking signal east of SP Crossing MP 13.7 Elmhurst and westward approach signal to absolute block signal at west end San Leandro.

(M) Hayward. Rule 221: When train order signal at Hayward is in stop position but absolute block signal displays indication permitting entrance into block eastward trains may pass east switch of new siding and proceed into block (or blocks) but must not leave Hayward without a clearance.

Old siding in service as an auxiliary siding or switching track. No signal is provided for eastward trains to enter this track. Dispatcher may, when desired, instruct eastward trains verbally to do so. Absolute block signals on old siding govern entrance of eastward or westward trains to main track block and westward absolute block signal on main track governs entrance of westward trains to old siding.

Inside switch at east end of new siding is normally lined for tail track. Inside signal at this location governs entrance to main track only and is not illuminated unless one or both crossover switches are lined. Instructions in Section (T) covering similar arrangements at Fitz, Army Supply Depot and Stockton Yard will also govern at this location.

Rule 312: Train dispatcher may grant switching authority under this rule between eastward automatic block approach signal to eastward absolute signal at west switch new siding and westward automatic block approach signal to westward absolute block signal at east switch old siding.

- (N) Niles. Crossover between main track and siding just east of house track switch is not electrically-locked and must not be used to enter main track block unless part of train already is on main track within the block.
- (O) Niles Junction. Absolute block signals at east wye switch govern movement to and from east leg of wye.

West wye switch electrically-locked and pipe-connected to switch to outfit spur off west leg of wye, which will serve as a derail. Release circuit extends from 50 feet west of switch points to home interlocking signal 450 feet east of SP crossing MP 30.3.

- (P) Carbona. The south siding is the designated track to be used for meeting or passing of trains. Permission from dispatcher is required to enter north siding after entering main track block by signal indication at east or west Carbona. Entrance from north siding to main track governed by signal indication. Dispatcher cannot clear entrance signals from north siding to main track when main track block is occupied and Rules 312 or 314 will apply under these circumstances.
- (Q) Lyoth. No signal is provided for eastward trains to take siding. Dispatcher may, when desired, instruct eastward trains to do so.

Absolute block signal on west end of siding governs entrance of westward trains to main track block. Movements to and from east end of siding are governed by interlocking signals, Lyoth crossing, which are also semi-automatic (SA) absolute block signals.

ABSOLUTE AUTOMATIC BLOCK SYSTEM—SPECIAL INSTRUC-TIONS (Continued)

Crossover between main track and siding is not electricallylocked and must not be used to enter main track block unless part of train already is on main track within the block.

- (R) Lathrop. Trains switching between west end of Lathrop or crossover west end of Army Supply Depot track and home interlocking signal east of Lathrop crossing, in addition to obtaining authority from train dispatcher must notify signal operator SP Lathrop before switching is commenced and after it is completed. Telephones for this purpose located in A.A.B.S. telephone booths west end Lathrop siding and crossover west end of Army Supply Depot tracks.
- (S) Army Supply Depot. No signals for movement from main track to Army Supply Depot tracks. Trains clearing main track on these tracks must notify dispatcher when they have done so.

Entrance to main track through crossover at west end is governed by dwarf signal. At east end, signal located just west of switch points inside switch governs entrance to main track from either No. 1 track or lead. Signal is not affected by position of inside switch.

(T) Fitz, Army Supply Depot and Stockton Yard. Inside switches of crossovers east Fitz, west end Army Supply Depot track and MP 90.4 and MP 91, Stockton Yard, normally lined for tail track or lead. Inside signals at these locations govern entrance to main track only. They are not illuminated unless one or both crossover switches are lined and do not affect movements on tail track or lead other than to main track.

The "S" unit on signal mast will be illuminated when dispatcher authorizes switches to be lined and signal will light when switches are changed. Neither switch to crossover may be changed unless "S" unit is illuminated.

Trains leaving main track at these locations must line both switches of crossover when "S" unit is illuminated on main track signal and return both switches to normal position when movement is completed.

(U) Stockton Yard. Westward Automatic Block Signal 921, located 6400 feet east of westward absolute block signal at MP 91, governs approach of trains to that signal.

Eastward Signal 910, located 300 feet east of entering crossover, in service as an automatic block signal (not absolute block signal) but is connected to A.A.B.S. control board and must be cleared by train dispatcher. When in STOP position Signal 910 must not be passed without first obtaining permission from the train dispatcher. Thereafter Rule 509 will apply. This signal is located at A.A.B.S. limits and does not supersede superiority of trains east of that point. Rule 93 applies between east A.A.B.S. limits and east yard limit sign.

When westward trains leaving Stockton Yard do not find the "S" illuminated on inside leaving signal at crossovers MP 90.4 or MP 91 member of crew must call dispatcher. Telephones located north side of main track opposite these signals.

Absolute block signals located at Ortega connection, MP 90.4. Eastward trains, caboose hops or light engines will be governed by signal indications entering Stockton Yard. Eastward trains which head in at MP 91 call yardmaster on telephone located near switch for track instructions. Eastward caboose hops and light engines which head in at MP 90.4 will proceed via No. 2 lead through crossover west of Bridge 90.97-C to No. 3 lead and No. 15 track to yard office and roundhouse track. Eastward trains which head in at MP 90.4 by signal indication stop at train yard lead MP 91 and call yardmaster for track instructions.

(V) Ortega - Hunter Street Line. See instructions on page 19 under Ortega Tower governing westward movement to main track. For movements main track to Hunter Street line indication first must be received on eastward absolute block signal MP 90.4 permitting entrance into block. Switch points are immediately east of signal and when switch is thrown signal will change to STOP. Under these conditions the absolute signal in STOP position may be passed without further authority.

A.A.B.S.—SPECIAL INSTRUCTIONS GOVERNING OPERATIONS BETWEEN CLINTON AND EAST YARD LIMIT, OAKLAND, MP 13.78

- (A) RULE 302. Rule 93 applies within A.A.B.S. limits. Second class and extra trains and yard engines must move with caution within yard limits, whether or not signals indicate PROCEED.
- (B) RULE 312. First paragraph will apply within above limits, with switching authority limited to not more than two blocks at any one time. Engine foreman must obtain authority from train dispatcher in accordance with first paragraph whenever switching is to be done in a block or blocks and, when switching is completed, engine foreman personally must release block or blocks to the train dispatcher.

When initially entering a block at a switch where there is no signal or electric lock no signal indication is required but permission must be obtained from the train dispatcher and three minutes must elapse after switch is opened before engine or cars foul main track.

(C) RULE 310. Switches in this territory are not electrically locked or signaled except Clinton, east and west siding switches Kohler and east switch Elmhurst siding. Yard engines may clear on any track and, if still holding authority to switch in the block under Rule 312, may return to the block without additional authority from the train dispatcher.

If block has been released to the train dispatcher, permission must again be obtained from him to enter or switch in the block and three minutes must elapse after switch is opened before engine or cars foul main track. Flag protection is not required except against first class trains when such permission has been obtained.

When practicable, switch crews using a block under switching authority should keep cars on main track or leave main track switch open with a man in charge.

- (D) Engine foreman must notify train dispatcher when leaving or intending to leave main track at an intermediate switch except when working under switching authority. A block must not be released to the train dispatcher in advance when switching authority has been granted but blocks must be released promptly when switching has been completed or specified time has expired in order to avoid delay to trains.
- (E) Train dispatcher must be notified when yard engines intend to enter A.A.B.S. on main track at Clinton and thereafter signal indications will govern. When moves are made from north track to main track at Clinton train dispatcher's permission must be obtained before switch is lined.
- (F) Absolute block signals at following locations west of MP 13.78:

Clinton, MP 7.7 MP 8.8, 22nd Ave. (no switches controlled) MP 9.9, 35th Ave. (no switches controlled) Kohler, east and west switches (designated siding)

(G) Telephones for communicating with the train dispatcher are located adjacent to absolute block signals and at following additional points:

Fruitvale, east and west siding switches Continental Can Co. Spur, MP 10.76 81st Ave., crossover to drill track Harvey Spur Gerber Spur, 98th Ave. MP 13.7, Elmhurst crossing

INSTRUCTIONS GOVERNING OPERATIONS BETWEEN OROVILLE YARD AND WEST END C. T. C.

- (A) Movement of trains and engines between west end of C.T.C. (MP 205.5) and east entrance switch to Oroville Yard (MP 203.8) is governed by interlocking signals under control of operator at Oroville passenger station. Interlocking signals on main track are located at east switch Oroville siding (westward signal, joint C. T. C. and interlocking), west switch Oroville siding and east entrance switch to Oroville train yard. Interlocking rules apply.
- (B) Switches are hand-operated except east siding switch, Oroville.
- (C) Trains must not exceed 25 miles per hour through interlocking limits.
- (D) Westward first-class trains will be authorized by clearance card or train order at Oroville. Train orders may be issued for extra trains to or from Oroville in connection with movement on Second Subdivision beyond Oroville Yard. Eastward first-class trains will be authorized at Oroville and eastward extra trains at Oroville Yard or Oroville by clearance card addressed as instructed by dispatcher, but must not leave until given permission by C. T. C. dispatcher after member of crew has advised him they are ready to leave.
- (E) When crew changes are made at Oroville on eastward trains, after permission to leave is obtained from C. T. C. dispatcher movement may be made with caution to eastward C. T. C. absolute leaving signal at east end of siding.
- (F) Westward absolute C. T. C. and interlocking signal at west end of C. T. C. is jointly controlled by C. T. C. dispatcher and signal operator, Oroville. C. T. C. rules apply as far as sign "End CTC" and interlocking rules beyond. Authority is required first from C. T. C. dispatcher and, second, from signal operator to pass this signal in stop position or to work with east siding switch in hand throw position.
- (G) Eastward absolute C. T. C. signals on main track and siding at east end of siding, Oroville, are under exclusive control of C. T. C. dispatcher and the east switch of siding is dual-control, poweroperated under his control.
- (H) RULE 105. Or oville is not a controlled siding. Tracks at Or oville, Or oville Yard and between, other than main track, are not included in signal circuits beyond clearance points from main track switches.
- (I) Eastward three-position color-light automatic block home signals, approach lighted, are located at MP 201.6 and MP 202.6 (west end of Oroville Yard). Approach circuit begins at MP 200.8, 4000 feet west of Signal 2016.
- (J) All signals are of color-light type and are single unit except westward C. T. C. and interlocking signal at east end Oroville siding and as listed herein.

Two-unit signals are located as follows:

Eastward: Leaving signal south side of No. 1 track at east entrance switch to Oroville train yard (MP 203.8).

West switch to siding, Oroville.

Westward: East entrance switch to Oroville train yard (MP 203.8).

Indications on two-unit signals are as follows:

Red over red -Stop.

Red over yellow-Proceed on diverging route with caution.

Yellow over red —Proceed prepared to stop at next home signal.

Green over red -Proceed except on diverging route.

(K) The two-unit signals listed above and, in addition, the west-ward single-unit dwarf leaving-siding signal at west end of siding, Oroville, have on the signal mast a unit, which when illuminated displays a letter "S" on a black background. When the "S" is illuminated it is an indication that signal operator desires the switch or switches to be lined. If the train is on the main track, switches are to be lined for the diverging route. If the train is on the siding

- at Oroville or on yard track in Oroville Yard switches are to be lined for movement to the main track. After switches are lined, the lamp in the "S" unit will be extinguished and the signal will show indication for movement over the route lined. When it is desired to make a movement at these locations requiring switches to be changed, signal operator first must be contacted, then when "S" is illuminated switches may be changed. They must not be changed unless the "S" is illuminated except when working over switch by permission of signal operator in accordance with Section (P) of these instructions.
- (L) Main track and crossover switches must be left lined for straight track after being used. It is not necessary to contact signal operator in connection with lining switches back.
- (M) When trains or engines are stopped by an interlocking signal and "S" is not illuminated at signals so equipped, signal operator must be contacted for instructions.
- (N) At east entrance switch to Oroville Yard train yard, the normal route for eastward trains leaving from any of the yard tracks is through crossover to main track. When switches are lined for movement eastward from yard tracks to main track, signal will indicate "Proceed prepared to stop at next home signal". When switches are lined for movement from train yard tracks eastward on drill track, signal will indicate "Proceed on diverging route with caution". See last paragraph Rule 104(C).
- (0) At east entrance switch to Oroville Yard train yard, westward main track signal is semi-automatic (SA). Interlocking limits extend to the eastward interlocking signal on cantilever and to eastward leaving signal from yard. The automatic portion of the block beyond the interlocking limits extends to "Block System Limit" sign at MP 202.7.

When this signal displays green over red or yellow over red aspect, trains are thereby given superiority over all trains to the "Block System Limit" sign at MP 202.7, and will hold main track at Oroville Yard, but when the yellow over red aspect is displayed all trains or engines must move with caution west of the interlocking limits.

(P) When switching is to be done over any switch within interlocking limits, FIRST obtain permission from the signal operator, after which movements may be made without regard to signal indications within the limits of the block or blocks. All movements must be made with caution when working under such permission. Signal operator must be notified when work is completed.

If signal operator specifies clock time during which block or blocks may be used, new authorization must be obtained if the work is not finished within the time specified. (Also see instructions in Section (S).

When signal operator gives such permission at east entrance switch to Oroville Yard train yard he can provide signal protection against eastward moves only within interlocking limits; therefore Rule 509 applies to all movements on main track west of the eastward interlocking signal on cantilever under this permission.

- (Q) RULE 670. It will not be necessary to secure permission from signal operator for each individual reverse movement provided permission has first been obtained for moves planned. When a reverse movement is made, trains or engines must move with caution until next signal in direction of movement is reached.
- (R) Main track switches at following locations are included in the circuits and entrance to main track is governed by indications of single-unit dwarf interlocking signals:

Dant & Russell Lumber Co. spur, MP 204.2. East switch to drill track, east end Oroville Yard, MP 204.3. SN transfer, MP 204.35. Mt. Ida spur, MP 204.45. Ehman spur, MP 204.5. House track, Oroville.

(S) When engines have entered tracks listed in Section (R), closed switch and left main track unoccupied, permission must be obtained from signal operator before again lining switch for movement to main track. This applies regardless of whether permission has been obtained from signal operator in accordance with Section (P).

INSTRUCTIONS GOVERNING OPERATIONS BETWEEN OROVILLE YARD AND WEST END C. T. C.—(Continued)

- (T) RULE 671. When necessary, running switches may be made over the switches listed in Section (R).
- (U) Howler, controlled by signal operator, is installed near Sacramento Northern transfer switch. When this howler is operated, main track must be cleared without delay.
- (V) Double switch indicators located at following main track switches:

Crossover switch, MP 202.65 (First switch east of Signal 2026, west end Oroville Yard).

Crossover switch to west train yard.

Adelaide spur.

West switch gravel pit track. East switch gravel pit track.

- (W) A double switch indicator is located also at west switch to west drill track. When entering main track at this point three minutes must elapse after switch is lined before main track is fouled and a member of crew must remain at switch during the interval.
- (X) Telephones for purpose of communicating with signal operator or C. T. C. dispatcher are in telephone booths adjacent to following locations:

East switch gravel pit track.
*East entrance switch to train yard, MP 203.8.

East drill track switch.

SN transfer switch.

West siding switch, Oroville.

*East end station platform, Oroville.

*House track switch.

*East siding switch, Oroville (Telephone in instrument house).

*Connected with either C. T. C. dispatcher or signal operator. Locations not so marked are connected only with signal operator.

CENTRALIZED TRAFFIC CONTROL—SPECIAL INSTRUCTIONS

- (A) Centralized Traffic Control extends from MP 320,035 (Delleker) to MP 205.5 (eastward absolute signals 252 feet west of east siding switch, Oroville, on main track and 183 feet west of east siding switch, Oroville, on siding).
- (B) Train movements between Portola passenger station and Delleker will be by signal indication and in accordance with special instructions; between Delleker and west end of C. T. C. by signal indication under C. T. C. rules; between west end of C. T. C. and Oroville Yard by signal indication under interlocking rules and in accordance with special instructions.
- (C) Signals within C. T. C. limits, at Portola and between Oroville and Oroville Yard are color-light type signals.
- (D) RULES 95 and 97. Oroville is the terminal for first-class trains and Oroville Yard the terminal for extra trains, Third Subdivision. First-class trains or sections thereof will be authorized at Portola or Oroville by clearance card, addressed as instructed by dispatcher. If sections are authorized clearance card will designate whether or not signals are to be displayed. Extra trains, including work extras, will be authorized at their initial station by clearance card, addressed as instructed by dispatcher, and will not require running orders for movement to Oroville Yard or Portola. All trains will register; also display signals in the usual manner.
- (E) RULE 83. Registers need not be checked in connection with movement of Third Subdivision trains, including movements between Oroville and Oroville Yard.
- (F) RULE 85. Within C. T. C. limits a section may pass and run ahead of another section of the same schedule without exchanging train orders, signals or numbers.
- (G) RULE 105. Owing to the fact that certain switches leading into controlled sidings are not electrically locked, particular attention is directed to fact that this rule applies on controlled sidings as well as on other tracks. See Rule 772(d).
 - (H) Slide detector fences located as follows:

	Signals Actuated By:			
Location	Eastward	Westward		
East portal Tunnel 7 West " " 8	P-2258	P-2295		
MP 236.2 to MP 237.33	{ P-2362 { P-2368	P-2371 P-2379		
West portal Tunnel 13 MP 265.0 MP 265.51	Abs. E. Cresta Abs. E. RichBar	P-2457 Abs. E. RichBar P-2675		

- (I) Camp Rodgers. Hand operated switch point derail at west end of siding. Normal position closed. Train or cars may be left on siding while switching is being performed on PG&E tracks provided that, in addition to observing provisions of Transportation Rule 840, derail is opened to derailing position and locked. Derail must be closed and locked after switching is completed and before train departs. See instructions on page 16 about switching on PG&E
- (J) Paxton. West connected crossover from main track to house track located 942 feet west of east end of 47-car house track spur. Both switches electrically locked. After lock is released main track switch must be opened before inside switch can be opened and inside switch must be closed before main track switch can be closed. Electric lock will stay released as long as door to electric lock is open.
- (K) At MP 280.34, switch leading to west leg of wye is electrically locked with ground throw stand. Electrically locked derail located on west leg of Wye 800 feet east of west switch (128 feet east of Bridge 280.51). When track is occupied on wye between this derail and west switch, block is held on main track Third Subdivision, and must not be occupied except in connection with through movements into or out of main track circuits.

Telephone for communicating with dispatcher is located on south side of main track at east end of Tunnel 32. Both electric locks may be released by dispatcher after door is opened on electric lock at

west leg of wye switch MP 280.48.

(L) Keddie Yard. All switches leading in or out of siding (No. 1 track), except inside switch to Upper Crossover, must be left lined for the siding. Derailing switch at west end of siding is dual-control, power-operated and when in power position works simultaneously with west siding switch. When west siding switch is in hand-operated position, derailing switch must also be hand operated.

Eastward dwarf absolute signal just west of inside crossover switch, Upper Crossover, will govern movement of eastward trains or engines from siding to main track, and from siding to tail track.

Both switches of west crossover between No. 1 track and N.C.E.

lead are included in circuits of eastward absolute entering signal west end Keddie siding. These switches must be left lined for No. 1

track and N.C.E. lead respectively when not in use.

Engines cannot take oil or water from east end of siding (No. 1 track) without fouling detector circuit which protects main track. Engines on siding requiring oil and water must not go beyond eastward dwarf absolute signal unless it shows indication per Rule 752, Fig. 6, or Rule 755, Fig. 6, with both switches of Upper Crossover lined for main track. If movement on main track prevents display of proceed signal to main track, engines may take oil and water by heading toward tail track. Trains or engines may be headed to tail track by making arrangements with C. T. C. dispatcher to release electric lock on switch to tail track (first inside switch east of Upper Crossover) and lining switch by hand. After reversing tail track witch and inside switch to Upper Crossover signal and track to the control of the switch and inside switch to Upper Crossover, signal will display indication per Rule 754, Fig. 2, for movement to tail track.

(M) Sidings shown on pages 6 and 7 are controlled sidings except Oroville Yard, Oroville and Portola.

East and west siding switches at these points are dual-control, power-operated. East siding switch at Oroville is dual-control, power-

operated.

Telephones for communicating with dispatcher are located just inside doors of instrument houses adjacent to switches. At west end of Belden there is an additional telephone for communicating with dispatcher in telephone booth opposite eastward absolute signal just west of Tunnel 22.

Cars must not be left on controlled sidings except in case of emergency and then only after notifying C. T. C. dispatcher except at Camp Rodgers as provided in Section (I) of these instructions.

- (N) All hand-operated switches in main track within C. T. C. limits are electrically locked. Instructions covering their operation and telephones for communicating with dispatcher are in small telephone booths adjacent to electric locks except at Delleker and Tobin, where they are in instrument houses.
- (O) Each hand-operated electrically-locked main track switch is protected by derail except Middle and Lower Crossover switches, Keddie. These derails are pipe connected to the main track switch stand and before lining switch care must be used to insure that all wheels have passed beyond derail.

East house track switch, Quincy Junction, operates derails on both east end house track and east end interchange track simul-

taneously.

(P) At Keddie, switch from tail track to roundhouse lead (first inside switch east of Upper Crossover) is electrically locked. Instructions and telephone are in instrument house across main track from lock. This switch is not protected by derail.

Hayes derail installed on tail track 75 feet east of inside switch

to upper crossover and pipe connected to that switch.

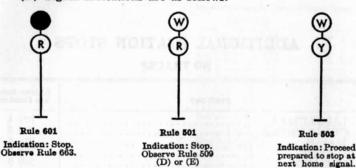
When lining rip track lead switch for tail track first have electric lock 126-A released and line switch for tail track, then line inside switch to upper crossover and pipe connected derail for tail track. Movement must not be made west of rip track lead switch or on tail track east of eastward dwarf absolute signal at inside switch to upper crossover until this is done.

After this lineup is made, rip track lead switch must not be lined back until engine or cars are clear of section of tail track between dwarf signal and derail. Main track absolute signals at west Sierra and east Keddie are thrown to STOP if rip lead switch is changed while this section of track is occupied.

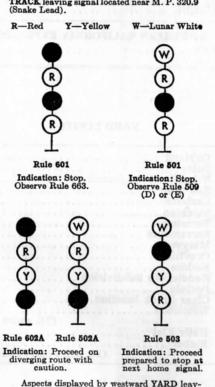
- (Q) Where train order signals are in service they must be respected in accordance with Rules 221 and 221(A) except that 9th, 10th, 12th and 13th paragraphs of Rule 221 do not apply within C. T. C. limits when C. T. C. system is operative.
- (R) Rules 14 (k), 72, S-72 (except as provided by Rule S-88), 73 and 92 (except as provided by C. T. C. S. Rule 780 and special instructions on pages 6 and 7) do not apply within C. T. C. limits.
- (S) Rules 14(n), 16(1), S-17, 19(A), S-71, 86, S-87, S-88, S-89, S-90, S-90(A), S-90(B), S-90(C), 91, 93, 93(A), 94 and 97 do not apply within C. T. C. limits when C. T. C. system is operative.

OPERATION OF TRAINS BETWEEN END OF CENTRALIZED TRAFFIC CONTROL AND PORTOLA PASSENGER STATION

- (A) Train and engine movements between East End of Centralized Traffic Control, MP 320.035 (Delleker) and MP 321.386 (Portola passenger station), will be made by block signal indication, and under block signal rules, except as otherwise provided by following rules and special instructions:
 - (B) Signal Indications are as follows:



Aspects displayed by westward MAIN TRACK leaving signal located near M. P. 320.9



Aspects displayed by westward YARD leaving signal located between tracks No. 1 and 3 near M. P. 320.9 (Snake Lead).

Y-Yellow W-Lunar White

(C) RULES S-71, 72, S-72, 73 and 83. Superiority of trains is abolished. Schedules shown in timetable are for the purpose of permitting compliance with Rule 780 (C. T. C. S.) and certain special instructions included herein.

(D) All movements in this territory must be made with caution, as prescribed by Rule 93, and will be governed by indication of block signals and switch indicators as follows:

1. Westward signals located at the Snake Lead are equipped with white markers in lieu of number plates. Aspects and indications peculiar to these signals are shown above.

Trains desiring to enter main track at this point are authorized to operate the crossover switches, provided the east indicator shows clear and the westward (yard) leaving signal displays aspect per Rule 502(A). After the switches have been properly set, the move may be made under the aspect then displayed.

- The eastward C. T. C. signal at Delleker governs train move-ments in the block extending eastward from the sign "END CTC" to Signal 3208. For the purpose of identification, a plate bearing the letters "SA" will be displayed on Eastward C. T. C. signal at Delleker, in addition to the letter "A". C. T. C. rules will govern west of the sign "END CTC".
- Westward signal located at clearance point of Lower No. 1 track is equipped with white marker light in lieu of number plate. Aspects and indications are as shown in left column, Section (B). When trains or engines desire to enter main track at this

point, member of crew will, if east and west indicators are clear, open box on indicator post and operate push button therein. After a time delay the white lights in the box and on the signal will be displayed provided C. T. C. signal at Delleker has not been cleared for an eastward train. After these white lights are displayed switch may be operated and move then made in accordance with signal aspect displayed.

4. All other signals in this area (except those listed in 1, 2 and 3 above) are automatic block signals bearing a number plate for identification.

(E) Rule 512(A) is modified to the extent that rear end protection is not required within these limits. This does not modify Rule 99-A. Trains carrying passengers must be fully protected.

(F) At Portola, yard engines, light engines, switch cuts and others moving within yard must clear main track when required to avoid delay to through trains entering or leaving C. T. C. limits. Howlers, controlled by dispatcher, are provided at following locations:

West roundhouse lead switch.

West train yard lead switch (snake lead). West switch to No. 10 track.

When these howlers are operated, main track must cleared without delay.

- (G) In addition, dispatcher will furnish information to telegrapher, Portola, as to times eastward regular passenger trains or sections thereof are expected to reach Portola. Employees in charge of switch engines, light engines and similar moves must ascertain from telegrapher whether these trains are due before occupying main track and not delay them.
- (H) Westward trains will be authorized by clearance at Portola but must not leave until given permission by C. T. C. Dispatcher after member of crew advises him they are ready to leave. Telephones for purpose of communicating with C. T. C. Dispatcher only are located as follows:

Booth on south side of No. 10 track opposite west wye switch.

West train yard lead switch (snake lead). East roundhouse lead switch (Booth just west of middle car inspectors' shanty).

- (I) Push button is located on signal mast, Signal 3208, for the purpose of clearing signal for eastward movements after a westward movement out of train yard. When eastward Signal 3208 indicates "Stop", after being passed on westward move, operate push button and if no train in block, signal will change in sixty seconds to indicate "proceed, prepared to stop at next home signal".
- (J) Telephones for communication within Portola Terminal are located as follows:

West train yard lead switch (snake lead).

West car inspectors' shanty (snake lead).

West roundhouse lead switch.

Middle car inspectors' shanty (at east roundhouse lead switch). East lead switch shanty.

- (K) Yard engines, light engines, switch cuts and other similar movements stopped by block signal or switch indicator indication which does not clear within three minutes, and for which reason is not known, will communicate with yardmaster who will arrange to have track cleared or appropriate arrangements made for the desired movement. If unable to contact yardmaster, will be governed by and proceed under Automatic Block Signal Rules.
- (L) Delleker. Entrance to spur is through electrically-locked, hand-operated switch. Obtain permission from C. T. C. dispatcher (by telephone in instrument house near switch) for movement in and
- (M) Derails on Delleker spur, West lead lower yard Portola and West end of west siding Portola Yard are pipe connected to main track switches. Switches must not be lined for main track until engines or cars have passed over derail.

SPURS AND COMMERCIAL TRACKS MAIN LINE

STATIONS	Distance from San Francisco	How Connected	Car Capacity
HUDSON	15.9	1 E	20
ESTUDILLO	16.5	1 E	13
ESTUDILLOALVARADO JUNCTION .(P)	24.9	Siding	39
DECOTO	26.6	Siding	18
PABRICO	27.8	1 E	16
EBERLY	28.9	Siding	20
GOAD (P)	32.1	1 E	25
RADUM (P)	43.4	Siding	33
TREVARNO(P)	49.0	1 W	24
REDMOND CUT(P)	59.3	Siding	33
VALPICO(P)	68.3	Siding	30
RHODES	75.6	Siding	26
OUICLEY (D)		1 W	95
QUIGLEY(P)	83.8		
ARMY SUPPLY DÉPOT(P)	85.76	Siding	130
FRENCH CAMP	88.35	Siding	29
HARTE	100.5	1 W	18
ALSCO	106.8	1 E	19
VILLINGER	107.8	1 W	13
LAS VINAS	109.5	Siding	50
BRADFORD	119.0	1 W	
ALBERT	127.2	1 W	9
RUNYON	128.7	1 E	20
BOMBAY	146.4	Siding	13
CLEVELAND	176.2	1 W	16
VISTA ROBLES	198.8	1 E	33
ADELAIDE	202.7	1 E	
LAND(P)	212.2	Siding	28
BRUSH (P)	227.4	1 W	3
BRUSH(P)BLINZIG(P) (W)	228.6	î W	11
JARBO(P)	236.1	1 E	17
GRIZZLY(P)	246.1	îĒ	îi
ROCK CREEK (P)	249.1	Siding	18
DALITE(P)	256.8	1 W	12
GRAY'S FLAT. (P)		1 W	74
" (PSGR STOP)	272.6	1 14	14
(100100101)	273.0	1 W	12
STODDARD(P)	279.3		15
CROMBERG(P)	303.2	Siding	31
FEATHER RIVER INN(P)	309.3	1 E	2
NORTHERN CALIFO	RNIA EXTE	NSION	
INDIAN CREEK. (P)	283.9	1 W	14
CHENEY LUMBER CO	294.7	îË	16
BOX(P)	296.3	1 W	34
ROLLO	302.4	i w	11
POISON LAKE (P)	351.1	Wye	
TOIDON LAKE (I)			.::.
INDIAN HEAD LBR. CO(P)	376.4	1 W	10

ADDITIONAL STATION STOPS

NO TRACKS

STATIONS	Distance from San Francisco
LAS PLUMAS	221.4
CHINO CREEK	229.5
ISAIAH	230.5
INTAKE	232.1
MAYARO	240.9
STORRIE	250.6
BURRO BAR	251.8
SPANISH CREEK.	285.4
NORTHERN CALIFORNIA EXTENSION WOLF CREEK	302.3

YARD LIMITS

West MP	CONTRACTOR OF THE PARTY OF THE	East MP
WP Mole	Oakland	13.78
28.50	Niles	31.38
	Niles, San Jose Branch	BR-0.61
BR-14.4	San Jose	.BR-23.0
70.14	Carbona	
89.34	Stockton	
MJ-6.0	TerminousEr	d of Branch
133.4	Sacramento	
177.62	Marysville	
201.44	Oroville	206.0
280.51	Keddie	
	Keddie, 4th Subdivision	
319.94	Portola	
K-34.89	Clear Creek Junction	
K-38.25	Westwood	
	(2½ miles wes	
K-75.17	Halls Flat	
K-111.2	Bieber (3.1 miles east of passer	.GN-86.5

RAILROAD SURGEONS

LOCATION	NAME	TITLE
San Francisco, Calif	Dr. A. R. Kilgore	Chief Surgeon
San Francisco, Calif	. Dr. C. E. Smith	Asst. Chief Surgeon
San Francisco, Calif	. Dr. G. F. Cushman	Division Surgeon
San Francisco, Calif	Dr. Ruth Fleming	Local Surgeon
San Francisco, Calif	Dr. A. J. Brinckerhoff	Oculist
San Francisco, Calif	Dr. Frank Hand	Aurist
San Francisco, Calif	Dr. F. D. Fellows	Aurist
Oakland, Calif	Dr. Robert R. Thomson	Local Surgeon
Oakland, Calif	Dr. Ray H. Fisher	Local Surgeon
Oakland, Calif	Dr. Fred D. Fisher	Local Surgeon
Oakland, Calif	Dr. Stanley S. Davis	Local Surgeon
Oakland, Calif	Dr. L. L. Coleman	
Oakland, Calif	Dr. John Paul Evans	Local Surgeon
Berkeley, Calif	Dr. M. C. Cheney	Asst. Local Surgeon Local Surgeon
Berkeley, Calif	Dr. W. B. McKnight	
Berkeley, Calif	Dr. C. M. Weseman	Local Surgeon
Berkeley, Calif	Dr. Raymond Johanson	Aurist
Alameda, Calif	Dr. D. D. Stafford	Oculist
San Rafael, Calif	Dr. D. D. Stanord	Local Surgeon
Hayward, Calif		Local Surgeon
Niles, Calif	Dr. H. C. Crockett	Local Surgeon
San Jose, Calif		Local Surgeon
San Jose, Calif		Local Surgeon
		Local Surgeon
Livermore, Calif		Local Surgeon
Fracy, Calif	Dr. Marion G. Weitz	Local Surgeon
Stockton, Calif	Dr. E. G. Hermosillo	Local Surgeon
Stockton, Calif	Dr. Henry F. Quinn	Local Surgeon
Stockton, Calif	Dr. Dewey Powell	Oculist and Aurist
Lodi, Calif	Dr. S. W. Leiske	Local Surgeon
odi, Calif	Dr. W. G. Fessler	Local Surgeon
acramento, Calif	Dr. J. V. Chambers	Local Surgeon
acramento, Calif		Local Surgeon
Sacramento, Calif	Dr. D. J. Engelberg	Local Surgeon
acramento, Calif	Dr. C. C. Gray	Oculist
Sacramento, Calif	Dr. John A. Berg	Oculist
Marysville, Calif	Dr. Philip B. Hoffman	Local Surgeon
Proville, Calif	Dr. Chas. Benninger	Local Surgeon
Proville, Calif	Dr. C. L. Craviotto	Local Surgeon
Proville, Calif	Dr. John E. Patrick	Local Surgeon
Quincy, Calif	Dr. Rex N. Carr	Local Surgeon
Quincy, Calif	Dr. D. I. Bleiberg	Local Surgeon
Greenville, Calif	Dr. Wilbur C. Batson	Local Surgeon
Vestwood, Calif	Dr. Herman G. Levin	Local Surgeon
Portola, Calif	Dr. J. D. Coulter	Division Surgeon
Portola, Calif	Dr. Joseph F. Narkevitz	Asst. Division Surgeon
	Sooph L. Lidikovita	Acce, Division ourgeon

WATCH INSPECTORS

LOCATION	NAME	TITLE	
San Francisco, Calif	S. A. Pope	Manager of Time Service	
San Francisco, Calif	E. J. Land	Watch Inspector	
Oakland, Calif	E. S. Griffin	Watch Inspector	
Oakland, Calif	E. W. Becker	Watch Inspector	
Oakland, Calif	Leroy D. Wertz	Watch Inspector	
Oakland, Calif	Don J. Allphin	Watch Inspector	
San Leandro, Calif	G. C. Foster	Watch Inspector	
San Jose, Calif	Kochers	Watch Inspector	
Livermore, Calif	C. Harlie Power	Watch Inspector	
Stockton, Calif	Conrad Mantele	Watch Inspector	
Sacramento, Calif	H. T. Harger	Watch Inspector	
Oroville, Calif	Philip K. Schmidt	Watch Inspector	
Quincy, Calif	W. H. Powell	Watch Inspector	
Portola, Calif	Wm. B. and Allan H. Lindsey	Watch Inspector	

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