

**RULES COMPLIANCE . . . THE
KEY TO ACCIDENT PREVENTION**

TERMINAL SUPERINTENDENTS

E. R. LAW Roseville
E. A. VOTAW Ogden

ASST. TERMINAL SUPERINTENDENTS

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L. F. WRIGHT Roseville
G. L. GRACE Roseville
R. S. BUNTING Sacramento
C. R. URBICK Ogden

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K. W. DIXON Sacramento
T. G. NOVI Roseville
J. E. CODY Sparks
L. J. McHUGH Carlin
C. E. ALWARD Redding

ASSISTANT TRAINMASTERS

V. E. BELL Ogden
W. P. FISHER Carlin

ROAD FOREMEN OF ENGINES

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K. C. CARSTENSON Roseville
C. E. NOVAK Roseville
H. H. HUGHES Sparks
D. J. KLOCK Carlin
L. C. WRIGHT Ogden

ASSISTANT ROAD FOREMAN OF ENGINES

R. K. COOL Dunsmuir
R. R. PARK Roseville

CHIEF TRAIN DISPATCHER

C. L. KENNEDY Roseville

**SOUTHERN PACIFIC
TRANSPORTATION
COMPANY**



**SACRAMENTO
DIVISION
TIMETABLE
13**

EFFECTIVE SUNDAY, JUNE 11, 1972

AT 12:01 A. M.

PACIFIC STANDARD TIME

**FOR THE GOVERNMENT AND INFORMATION
OF EMPLOYEES ONLY, WHO MUST ALSO
CARRY COPY OF CURRENT ISSUE
OF SPECIAL INSTRUCTIONS**

R. L. KING,
General Manager.

W. J. LACY,
Assistant General Manager.

J. J. WILLIS,
General Superintendent of Transportation.

O. D. GOODWILL,
*Assistant General Superintendent
of Transportation.*

R. R. ROBINSON,
Superintendent.

**R. V. WILLS,
H. J. KERINS,**
Assistant Superintendents.

SACRAMENTO DIVISION TIMETABLE No. 13, JUNE 11, 1972

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WEST VALLEY SUBDIVISION

EASTWARD				Mile Post Location	STATIONS SIDING CAPACITIES AND FACILITIES	Station Number	Distance from Dunsmuir	WESTWARD			
FIRST CLASS								11	377	FIRST CLASS	
14	378	376	366					Passenger	Pacific Coast Expediter	11	377
Passenger	Pacific Coast Expediter	Starpacer	Advance Starpacer		TO-R		Passenger	Pacific Coast Expediter			
Leave Sun., Wed. & Fri.	Leave Daily	Leave Daily	Leave Daily		N-4000 Yd. Lmts.		Arrive Sun., Tue. & Fri.	Arrive Daily			
PM 10.30	AM 12.30			75.6	TO-R DAVIS KIYPQ	23323	AM 6.30	PM 8.00			
10.36	12.35			80.7	4985 MERRITT	21510	6.12	7.10			
10.41	12.39			84.9	4895 Yd. Lmts. TO-R WOODLAND BKPQ	21340	6.06	7.01			
				89.9	1910 YOLO	21330					
10.51	12.50			95.8	5235 ZAMORA P	21320	5.54	6.45			
11.02	1.02			108.3	5360 HARRINGTON P	21305	5.43	6.30			
				124.2	2375 WILLIAMS P	21255					
11.20	1.22			129.1	5065 CORTENA P	21248	5.25	6.04			
11.30	1.33			138.3	5015 DELAVAN P	21237	5.15	5.52			
11.40	1.46			149.9	5495 Yd. Lmts. WILLOWS P	21222	5.03	5.40			
PM 11.54	2.02			165.4	Yd. Lmts. TO-R ORLAND PQ	21204		5.20			
				167.0	1535 WYO YP	21030	4.48				
AM 12.06	2.16			178.5	2015 CORNING P	21025		5.05			
12.14	2.28	PM 3.15	AM 10.30	186.3	TEHAMA YP	21025	4.29	4.55			
12.17				211.7	Yd. Lmts. GERBER P	20195	4.25				
				213.8	8305 RAWSON P	20178					
				218.9	TO-R RED BLUFF BKPQ	20173					
				223.4	8345 BLUNT P	20165					
				228.9	8200 DRAPER P	20160					
				236.5	8445 CULP P	20152					
				244.2	9245 GIRVAN P	20140					
				253.5	10820 REDDING BKPQ	20110	s 3.36				
s 1.05				258.2	5290 SILVERTHORN P	20067					
				263.0	5095 CENTRAL VALLEY P	20063					
				266.3	5095 GRAY ROCKS P	20058					
				270.4	6120 O'BRIEN P	20055					
				277.6	5095 MEAD P	20051					
				281.2	5125 LAKEHEAD YP	20045					
				285.7	5255 DELTA P	20033					
				289.8	5570 LAMOINE P	20029					
				296.7	4970 GIBSON P	20025					
				300.2	5380 SIMS P	20019					
				304.0	5385 CONANT P	20014					
				309.4	5805 CASTLE CRAG P	20005					
				313.1	DUNSMUIR YARD BKP	07255		1.30 PM			
				318.3	TO DUNSMUIR BKYPQ	07250	2.00 AM				
	5.45 AM	6.25 PM	1.40 PM	321.2							
s 3.00 AM				322.1							
Arrive Mon. Thur. & Sat.	Arrive Daily	Arrive Daily	Arrive Daily		(214.2)		Leave Sun., Tue. & Fri.	Leave Daily			
14	378	376	366				11	377			

RULE 5. Time at Tehama applies at junction switch.
Time for eastward first-class trains at Davis via West Valley Subdivision applies at east switch north siding.

SACRAMENTO DIVISION TIMETABLE No. 13, JUNE 11, 1972

WEST VALLEY SUBDIVISION

EAST- WARD	Mile Post Location	Colusa Branch STATIONS SIDING CAPACITIES AND FACILITIES	Station Number	WEST- WARD	Distance
	108.3	5360 R HARRINGTON P	21305		72.1
	120.8	Yd. Lmts. GRIMES P	21171		59.6
	133.0	COLUSA	21156		47.4
	150.4	CODORA	21137		30.0
	170.0	2855 Yd. Lmts. HAMILTON P	21113		10.4
	180.4	1535 R Yd. Lmts. WYO YP	21030		0.0
(72.1)					
Knights Landing Branch					
	84.9	4895 TO-R WOODLAND BKPQ	21340		15.5
	87.7	Yd. Lmts. R SUGARFIELD	21404		12.7
	94.0	KNIGHTS LANDING	21411		6.4
	100.4	ROBBINS	21419		0.0
(15.5)					
Matheson Branch					
	258.2	Yd. Lmts. R REDDING BKPQ	20110		10.7
	261.0	MIDDLE CREEK P	20120		7.9
	263.2	KETT P	20125		5.7
	268.9	MATHESON P	20130		0.0
	267.2				
(10.7)					

ADDITIONAL STATIONS

Capacity and Direction of entry into Spurs	Mile Post	NAME	Station Number
Davis-Dunsmuir Line			
1175W ..	92.1	Dufour..... (Spur)	21325
835W P	103.2	Dunnigan..... (Spur)	21312
1125E ..	106.4	Hershey..... (Spur)	21308
1470E ..	113.5	Arbuckle..... (Spur)	21266
1470E ..	117.6	Genevra..... (Spur)	21261
590E ..	126.8	Delphos..... (Spur)	21251
1370E ..	133.0	Maxwell..... (Spur)	21243
3235E ..	156.8	Artois..... (Spur)	21214
635W ..	162.0	Greenwood..... (Spur)	21208
390E P	181.6	Richfield..... (Spur)	21020
..	215.8	Proberta.....	20182
..	224.5	Glade.....	20170
1960 ..	240.4	Cottonwood.....	20157
2645 ..	247.1	Anderson.....	20148
880W P	316.1	Dirigo..... (Spur)	20009
Colusa Branch			
930W ..	112.3	College City..... (Spur)	21182
590E ..	116.0	Graino..... (Spur)	21177
640E ..	143.2	Stegeman..... (Spur)	21145
930E ..	162.1	Ordbend..... (Spur)	21123
1960 P	178.6	Cory.....	21103

ADDITIONAL STATIONS

Capacity and Direction of entry into spurs	Mile Post	NAME	Station Number	Capacity and Direction of entry into spurs	Mile Post	NAME	Station Number
Roseville-Tehama Line							
2450 P	118.4	Clayton.....	22572	..	R	147.6	Yuba City Branch
2745 ..	121.0	Ewing.....	22569	..	..	152.2	Yuba City.....
..	131.2	Erle.....	22551	440W ..	..	153.4	Oswald.....
1325W ..	138.9	Rupert..... (Spur)	22541	..	..	153.4	Blue Anchor..... (Spur)
685E ..	149.8	Sunset..... (Spur)	22242	1420E ..	..	188.3	Stirling City Branch
1570 P	151.5	Live Oak..... (Spur)	22239	930 ..	..	198.2	Butte Creek..... (Spur)
2400 P	161.4	Biggs.....	22228	..	..	198.2	Paradise.....
295E ..	164.1	Riceon..... (Spur)	22224	245W ..	..	143.0	Dantoni Branch
1125E P	191.3	Nord..... (Spur)	22023	143.0	Linda..... (Spur)
1370 P	209.7	Los Molinos.....	22003	143.0	

EAST VALLEY SUBDIVISION

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EASTWARD		Mile Post Location	STATIONS SIDING CAPACITIES AND FACILITIES	Station Number	WEST- WARD	Distance
FIRST CLASS						
376	366					
Starpacer	Advance Starpacer					
Leave Daily	Leave Daily					
PM 1.15	AM 8.30	106.6	TO-R ROSEVILLE BKIYPQ	23000	105.1	
		112.8	8370 SUNSET- WHITNEY RANCH P	22579	98.9	
		117.0	LINCOLN P	22574	94.7	
		122.1	8260 BROCK P	22567	89.6	
		128.1	WHEATLAND P	22560	83.6	
		134.2	8350 OSTROM P	22547	77.5	
		139.8	DANTONI JCT. P	22531	71.9	
		140.8	MARYSVILLE BKPKQ	22500	70.9	
		141.8	BINNEY JCT. YP	22404	69.9	
		144.7	8450 BERG P	22249	67.0	
		155.9	8420 FAGAN P	22235	55.8	
		158.0	GRIDLEY P	22232	53.7	
		167.4	8185 RICHVALE P	22220	44.3	
		178.1	DURHAM P	22207	33.6	
		184.2	8540 CHICO BKYPQ	22030	27.5	
		193.6	8370 ANITA P	22019	18.1	
		203.0	8200 VINA P	22011	8.7	
		211.7	TEHAMA P	20195	0.0	
			(105.1)			
3.15 PM	10.30 AM					
Arrive Daily	Arrive Daily					
376	366					

141.8		BINNEY JCT. P	22404	
147.9		(Via WPRR) OROVILLE	22430	
Oroville Branch				
147.9	Yd. Lmts.	OROVILLE	22420	0.0
144.5		VILLA VERONA	22410	3.4
(3.4)				
Stirling City Branch				
184.2	Yd. Lmts. It	CHICO BKYPQ	22030	31.2
215.4		STIRLING CITY Y	22140	0.0
(31.2)				
Yuba City Branch				
144.7	Yd. Lmts.	8450 BERG P	22249	12.4
144.4		TUDOR	22319	0.0
156.8				
(12.4)				
Dantoni Branch				
139.8	Yd. Lmts.	DANTONI JCT. P	22531	4.4
144.2		DANTONI	22539	0.0
(4.4)				

SACRAMENTO DIVISION TIMETABLE No. 13, JUNE 11, 1972

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ROSEVILLE SUBDIVISION

EASTWARD			Mile Post Location	Station Number	STATIONS SIDING CAPACITIES AND FACILITIES	Distance from Sacramento
FIRST CLASS						
6 Passenger	375 Starpacer	365 Advance Starpacer				
Leave Daily	Leave Daily	Leave Daily				
AM 11.20			89.0 88.9	23050	TO-R SACRAMENTO BKIYPQ	0.0
			90.0	23040		SACRAMENTO (15th St.) IYPQ	1.1
	AM 11.57	AM 7.32	91.8	23037	ELVAS P	2.9
			94.9	23021	BENALI P	6.0
11.40	PM 12.10	7.45	102.8	23008	ANTELOPE BKIYPQ	13.9
AM 11.47	12.25 PM	8.00 AM	106.6	23000	TO-R ROSEVILLE BKIYPQ	17.7
			110.6	16480	ROCKLIN P	21.7
			120.2	16450	Yd. Lmts. NEWCASTLE P	31.3
			124.2	16440	AUBURN, NEVADA ST. P	35.3
			129.1	16425	E-4800 BOWMAN P	40.2
PM 12.35			141.7	16300	E-6400 Yd. Lmts. TO-R COLFAX BKYPQ	52.8
			146.1 146.0	16270	CAPE HORN P	57.2
			152.2	16259	E-6400 GOLD RUN P	63.4
			160.7	16242	M-5375 MIDAS P	71.9
			165.5 166.6	16234	BLUE CANON P	76.7
1.32			171.4	16229	M-5575 Yd. Lmts. EMIGRANT GAP IYPQ	81.5
			179.0	16220	SHED 10 IP	89.1
			180.3	16217	CISCO P	90.4
			185.5	16211	TROY P	95.6
2.15			192.0	16190	E-6495 TO-R NORDEN BKIYPQ	102.1
			197.3 198.7	16175	SHED 47 IP	107.4
2.45			208.0	16160	E-5020 Yd. Lmts. TO-R TRUCKEE BKIYPQ	116.7
			222.4	16148	FLORISTON P	131.1
			231.8	16133	VERDI P	140.5
3.55			242.9	16110	RENO P	151.6
4.15 PM			246.2	16105	Vd. Lmts. TO-R SPARKS BKYPQ	154.9
Arrive Daily	Arrive Daily	Arrive Daily			(154.9)	
6	375	365				

Automatic Block Signal System

EASTWARD		Mile Post Location	WESTWARD	
FIRST CLASS			Station Number	Distance from Elvas
375 Starpacer	365 Advance Starpacer			
Leave Daily	Leave Daily			
AM 11.50	AM 7.25	132.0		
		133.2		
11.57 AM	7.32 AM	136.2		
Arrive Daily	Arrive Daily			
375	365			

STATIONS SIDING CAPACITIES AND FACILITIES		Station Number	Distance from Elvas
POLK IP	7400	23113	4.2
BRIGHTON IP	W-4350	23110	3.0
ELVAS QIYP	(4.2)	23037	0.0

ADDITIONAL STATIONS			
Capacity and Direction of entry into spurs	Mile Post	NAME	Station Number
Roseville-Sparks No. 1 Track			
490E	241.0	West Reno..... (Spur)	16122
1125E	238.0	Lawton..... (Spur)	16125
..	200.9	Andover.....	16172
..	197.7	Eder.....	16176
880E	193.0	Summit..... (Spur)	16181
..	177.9	Crystal Lake.....	16221
880E	157.2	Towle..... (Spur)	16247
..	148.9	Magra.....	16265
Roseville-Sparks No. 2 Track			
540W	126.5	Foothill..... (Spur)	16430
..	148.5	Magra.....	16265
..	156.8	Towle.....	16247
..	177.9	Crystal Lake.....	16221
..	197.7	Eder.....	16176
..	200.9	Andover.....	16172
835W	216.3	Boca..... (Spur)	16154
..	238.0	Lawton.....	16125
..	241.0	West Reno.....	16122

SACRAMENTO DIVISION TIMETABLE No. 13, JUNE 11, 1972

6 SPARKS SUBDIVISION

EAST-WARD FIRST CLASS	Mile Post Location	STATIONS SIDING CAPACITIES AND FACILITIES	Station Number	Distance from Carlin	WEST-WARD FIRST CLASS
6 Passenger					5 Passenger
Leave Daily					Arrive Daily
PM 4.40	246.2	Yd. Lmts. TO-R SPARKS BKYPQ	16105	288.3	AM 6.50
	249.1	VISTA P	16055	285.4	
	253.1	5990 HAFED P	16049	281.4	
	257.3	5875 PATRICK P	16043	277.2	
	262.1	5745 CLARK P	16035	272.4	
	266.2	9600 THISBE P	16030	268.3	
	276.1	10100 FERNLEY YPQ	16020	258.4	
	284.5	9400 DARWIN P	16010	250.0	
	288.1	6500 HAZEN P	14160	246.4	
	292.5	6185 MASSIE P	14157	242.0	
	302.0	10200 UPSAL P	14148	232.5	
	311.7	9600 PARRAN P	14137	222.8	
	320.0	9860 OCALA P	14129	214.5	
	328.4	9620 TOY P	14121	206.1	
	336.8	9940 GRANITE POINT P	14110	197.7	
	340.5	PERTH P	14090	194.0	
	344.3	W-6450 E-6075 LOVELOCK P	14082	190.2	
	357.8	OREANA P	14067	176.7	
	366.0	M-6200 RYE PATCH P	14059	168.5	
	377.0	HUMBOLDT P	14048	157.3	
	384.1	IMLAY P	14041	150.2	
	388.7	MILL CITY P	14035	145.6	
	397.0	M-6200 COSGRAVE P	14027	137.3	
	406.6	ROSE CREEK P	14016	127.7	
	406.8				
	417.3	6950 TO-R WINNEMUCCA IPQ	14005	117.2	
7.20	420.9	WESO (WP Conn.) IP	12198	113.6	3.54
	422.8	TULE P	12194	111.7	
	439.3	PREBLE (WP Conn.) P	12185	95.2	
	448.1	6050 IRON POINT P	12180	86.4	3.29
	466.3	7550 MOTE P	12171	68.2	3.13
	475.8	6500 TO BATTLE MOUNTAIN PQ	12162	58.7	3.05
	492.9	7580 MOSEL P	12156	41.6	2.50
	508.2	7100 TO BEOWAWE (WP Conn.) P	12145	26.3	2.37
	520.3	BARTH (WP Conn.) P	12137	14.2	2.26
s 9.10 PM	534.5	Yd. Lmts. TO-R CARLIN (WP Conn.) BKYPQ	12129	0.0	2.10 AM
Arrive Daily		(288.3)			Leave Daily
6					5

EAST-WARD	Mile Post Location	STATIONS SIDING CAPACITIES AND FACILITIES	Station Number	Distance from Flanigan	WEST-WARD
	358.7	Yd. Lmts. TO-R WENDEL BKYPQ	08398	22.3	
	349.8	HERLONG I	08510	13.4	
	336.4	ABS FLANIGAN IP } DT	08540	0-0	
		(22.3)			

Oregon Division stations Herlong and Wendel shown for information only.

Mina Branch				
288.1	Yd. Lmts. TO	HAZEN P	14160	128.9
307.0	3070	APPIAN P	14320	110.0
328.0	4025 TO	WABUSKA P	14341	89.0
354.2	3130	SCHURZ P	14367	62.8
384.4	2200 TO	THORNE P	14370	32.6
408.2		LUNING P	14380	8.8
417.0	Yd. Lmts. TO-R	MINA BKYP	14395	0.0
		(128.9)		

Fallon Branch				
288.1	Yd. Lmts. R	HAZEN P	14160	15.8
303.9		FALLON YP	14210	0.0
		(15.8)		

ADDITIONAL STATIONS				
Capacity and Direction of entry into Spurs	Mile Post	NAME	Station Number	
1715W P	260.2	Wunotoo . (Spur)	16038	
590E P	348.7	Kodak . . (Spur)	14077	
4210 } P	350.1	Colado . . (Spur)	14075	
2550E } P				
980W } P				
1325W } P				
1640E P	434.0	Golconda . (Spur)	12189	
245E P	461.3	Valmy . . (Spur)	12175	
3185E P	487.7	Argenta . (Spur)	12159	
245E P	517.0	Harney . . (Spur)	12141	
2790E P	525.7	Palisade . (Spur)	12134	
Mina Branch				
615 P	313.8	Weeks	14327	
1772W ..	330.8	Fort Churchill .	14343	
.. ..	331.9	Lux	14345	
.. ..	347.7	Reservation . . .	14361	

Time shown for eastward first class trains at Weso and Carlin for information only. See Western Pacific Railroad timetable for eastward train movements between Weso and Carlin.

OGDEN SUBDIVISION

EASTWARD FIRST CLASS				Mile Post Location	STATIONS SIDING CAPACITIES AND FACILITIES			Station Number	Distance from Ogden	WESTWARD FIRST CLASS			
6 Passenger					Automatic Block Signal System	Yd. Lmts. TO-R	Yd. Lmts. TO			P	BKY PQ	5 Passenger	
Leave Daily				CTC				DT	CTC			P	AM	Arrive Daily
			PM 9.20		534.5	} No. 2 Track	} No. 1 Track			} Double Track	} Centralized Traffic Control		
			f 9.42	554.3	WEST ELKO (WP Conn.)			12129	248.6			s 2.00	
				556.2	ELKO	12120	226.9	f 1.30					
				576.7	HALLECK	12112	206.4						
				589.6	DEETH	12109	193.5						
				591.1	WPRR Connection	12107	192.0						
			10.30 PM	603.6	ALAZON (WP Conn.)	12101	179.5	12.38 AM					
				607.5	WELLS	10190	175.6						
				616.4	MOOR	10185	166.7						
				624.6	HOLBORN	10180	159.0						
				632.5	PEQUOP	10172	151.3						
				640.6	VALLEY PASS	10164	142.5						
				644.8	COBRE	10160	138.3						
				661.9	MONTELLO	10149	121.2						
				669.3	TECOMA	10142	114.8						
				679.8	LUCIN	10131	102.5						
				685.1	PIGEON	10125	97.2						
				693.7	JACKSON	10116	88.6						
				702.1	LEMAY	10108	80.2						
				711.1	GROOME	10099	71.2						
				720.7	HOGUP	10089	61.6						
				729.5	STRONGKNOE	10078	52.8						
				734.6	LAKESIDE	10072	47.7						
				739.7	TRESEND	10067	42.6						
				745.2	MIDLAKE	10061	37.1						
				752.9	BRIDGE	10053	29.4						
				755.2	SALINE	10050	27.1						
				767.2	LITTLE MOUNTAIN	10039	15.1						
				776.3	WEST WEBER	10037	6.0						
			s 2.15 AM	782.3	OGDEN	10000	0.0	9.45 PM					
			Arrive Daily		(247.8 Eastward) (248.6 Westward)			Leave Daily					
			6					5					

Time shown for eastward first class trains at Carlin and Elko for information only. See Western Pacific Railroad timetable for eastward train movements between Carlin and Alazon.

ADDITIONAL STATIONS			
Capacity and Direction of entry into Spurs	Mile Post	NAME	Station Number
2350E P	544.7	Moleen	12124
P	564.8	Osino (Spur)	12118
P	568.4	Ryndon	12117
P	573.1	Elburz (W.P. Conn.)	12116
P	758.5	Promontory Pt.	10045

RULE 10-I

Oral authorization and acknowledgments between Foremen and Engineers for trains to pass "Red Conditional Stop" signs must be worded in the following forms:

SP FOREMAN AT MP CALLING SP (Train No.)

(After train answers giving his identification): (i. e.) **SP Train**

Foreman's Response

"THIS IS SP FOREMAN . . . IN CHARGE OF THE WORK BETWEEN MP AND MP SP TRAIN ORDER NO. . . . WE ARE IN THE CLEAR AND YOU MAY PROCEED PAST THE RED CONDITIONAL STOP SIGN AND THROUGH THE LIMITS OF ORDER AT . . . MPH, REPEAT . . . MPH"*

Engineer's Response

"THIS IS ENGINEER SP TRAIN I MAY PROCEED PAST THE RED CONDITIONAL STOP SIGN AND THROUGH THE LIMITS OF ORDER NO. . . . BETWEEN MP AND MP AT (Speed). REPEAT (Speed) MILES PER HOUR."

Foreman must acknowledge Engineer's response as follows:

SP TRAIN ORDER NO. . . . , BETWEEN MP AND MP MPH* OK."

*When no speed restriction account above Form "Y" Train Order, tell train engineer "At Maximum Authorized Speed."

"Foreman's oral authorization for train to pass "Red Conditional Stop" sign in multiple main track territory on which trains may be authorized to operate in either direction must designate main track on which authority applies, worded in the following form:

FOREMAN'S RESPONSE

THIS IS SP FOREMAN . . . IN CHARGE OF THE WORK BETWEEN MP . . . AND MP . . SP TRAIN ORDER NO. . . WE ARE IN THE CLEAR OF TRACK . . . AND YOU MAY PROCEED PAST THE RED CONDITIONAL STOP SIGN ON TRACK . . . AND THROUGH THE LIMITS OF ORDER AT . . . MPH, REPEAT . . . MPH

"Engineer's response and foreman's acknowledgement must indicate main track on which movement is authorized."

SPEED TABLE

TIME PER MILE	MILES PER HOUR
36"	100
37"	97.3
38"	94.7
39"	92.3
40"	90
41"	87.8
42"	85.7
43"	83.7
44"	81.8
45"	80
46"	78.3
47"	76.6
48"	75
49"	73.5
50"	72
51"	70.6
52"	69.2
53"	67.9
54"	66.7
55"	65.5
56"	64.3
57"	63.2
58"	62.1
59"	61
1'00"	60
1'01"	59
1'02"	58.1
1'03"	57.1
1'04"	56.2
1'05"	55.4
1'06"	54.5
1'07"	53.7
1'08"	52.9
1'09"	52.2
1'10"	51.4
1'11"	50.7
1'12"	50
1'13"	49.3
1'14"	48.6
1'15"	48
1'16"	47.4
1'17"	46.8
1'18"	46.2
1'19"	45.6
1'20"	45
1'25"	42.4
1'30"	40
1'35"	37.9
1'40"	36
1'45"	34.3
1'50"	32.7
1'55"	31.3
2'00"	30
2'15"	26.7
2'30"	24
2'45"	21.8
3'00"	20
3'30"	17.1
4'00"	15
5'00"	12
6'00"	10
7'00"	8.6
7'30"	8
8'00"	7.5
10'00"	6