

CALIFORNIA HIGH SPEED TRAIN PROJECT  
APPENDIX A4 -- EQUIPMENT CYCLES (DRAFT)  
FULL BUILD SERVICE PLAN WITH SERVICE TO SACRAMENTO, SAN DIEGO AND IRVINE (Version 2)

Set	ID	OverlScheme	Dir	Consist	Pattern	Train Type	LARunThru	Orig	OrigTime	Dest	DestTime	RunTime	MinLay	Avail	Layover	Excess	DestArr	DestDep	T	TrnMi	SetMi	Wkend	Source	O-N Yd	Mid Yd	Disp	O-N Yd	Mid Yd
1	1	Night	SB	4	SF-LA-SD All-Stop		X	SFT	4:18	SAN	9:22	5:04	40	10:02	5:11	271	9:22	14:33		476.9	476.9	476.9	Yard	SF		Layover		SD
1	216	Reg	NB	4	SF-LA-SD All-Stop		X	SAN	14:33	SFT	19:39	5:06	30	20:09	--	--	19:39	--		476.9	476.9	476.9	Layover		SD	Yard	SF	
2	2	Reg	SB	1	Bay Area-San Diego Limited		X	SFT	5:00	SAN	9:29	4:29	40	10:09	5:58	318	9:29	15:27		476.9	476.9	476.9	Yard	SF		Layover		SD
2	221	PM PEAK	NB	35	Sacramento-SD Ltd Exp		X	SAN	15:27	SAC	19:41	4:14	40	20:21	--	--	19:41	--		0	0	0	Layover		SD	Yard	SAC	
3	3	Peak O/T	SB	29	SF-San Diego Limited		X	SFT	5:03	SAN	9:53	4:50	40	10:33	0:36	(4)	9:53	10:29		0	0	0	Yard	SF				
3	199	Reg	NB	4	SF-LA-SD All-Stop		X	SAN	10:29	SFT	15:35	5:06	30	16:05	0:33	3	15:35	16:08		476.9	476.9	476.9						
3	88	Peak O/T	SB	28	SF-San Diego Limited		X	SFT	16:08	SAN	21:11	5:03	40	21:51	0:39	(1)	21:11	21:50		0	0	0						
3	247	Night	NB	41	Los Angeles-San Diego All-Stop			SAN	21:50	LAU	23:34	1:44	40	0:14	--	--	23:34	--		0	0	0				Yard	LA	
4	4	Peak O/T	SB	28	SF-San Diego Limited		X	SFT	5:08	SAN	10:13	5:05	40	10:53	0:42	2	10:13	10:55		0	0	0	Yard	SF				
4	201	Peak O/T	NB	27	SF-San Diego Limited		X	SAN	10:55	SFT	15:49	4:54	30	16:19	0:38	8	15:49	16:27		0	0	0						
4	90	Reg	SB	39	SF-Sacramento Limited			SFT	16:27	SAC	18:32	2:05	40	19:12	--	--	18:32	--		0	0	0				Yard	SAC	
5	5	Peak O/T	SB	4	SF-LA-SD All-Stop		X	SFT	5:14	SAN	10:18	5:04	40	10:58	5:15	275	10:18	15:33		476.9	476.9	476.9	Yard	SF		Layover		SD
5	222	Peak O/T	NB	4	SF-LA-SD All-Stop		X	SAN	15:33	SFT	20:38	5:05	30	21:08	--	--	20:38	--		476.9	476.9	476.9	Layover		SD	Yard	SF	
6	6	Reg	SB	2	SF-LA-Irvine Express		X	SFT	5:30	IRV	8:46	3:16	40	9:26	0:42	2	8:46	9:28		446.6	446.6	0	Yard	SF				
6	268	Reg	NB	16	SF-Irvine Limited		X	IRV	9:28	SFT	13:15	3:47	30	13:45	0:45	15	13:15	14:00		446.6	446.6	0						
6	71	Reg	SB	1	Bay Area-San Diego Limited		X	SFT	14:00	SAN	18:29	4:29	40	19:09	0:55	15	18:29	19:24		476.9	476.9	476.9						
6	242	Reg	NB	1	Bay Area-San Diego Limited		X	SAN	19:24	SFT	23:53	4:29	30	0:23	--	--	23:53	--		476.9	476.9	476.9				Yard	SF	
7	7	Peak O/T	SB	21	SF-Irvine Limited		X	SFT	5:33	IRV	9:23	3:50	40	10:03	0:47	7	9:23	10:10		446.6	446.6	446.6	Yard	SF				
7	270	Reg	NB	15	Sacramento-Irvine All-Stop		X	IRV	10:10	SAC	13:55	3:45	40	14:35	0:45	5	13:55	14:40		161.2	161.2	161.2						
7	319	Reg	NB	14	SF-Sacramento All-Stop			SAC	14:40	SFT	17:05	2:25	30	17:35	0:28	(2)	17:05	17:33		354.3	354.3	354.3						
7	101	Peak O/T	SB	21	SF-Irvine Limited		X	SFT	17:33	IRV	21:19	3:46	40	21:59	--	--	21:19	--		446.6	446.6	446.6				Yard	ANA	
8	8	Peak O/T	SB	18	SF-Irvine Limited		X	SFT	5:37	IRV	9:27	3:50	40	10:07	5:04	264	9:27	14:31		446.6	446.6	446.6	Yard	SF		Layover		ANA
8	284	Peak O/T	NB	18	SF-Irvine Limited		X	IRV	14:31	SFT	18:15	3:44	30	18:45	0:35	5	18:15	18:50		446.6	446.6	446.6						
8	108	Reg	SB	14	SF-Sacramento All-Stop			SFT	18:50	SAC	21:15	2:25	40	21:55	--	--	21:15	--		354.3	354.3	354.3				Yard	SAC	
9	9	Reg	SB	14	SF-Sacramento All-Stop			SFT	5:50	SAC	8:15	2:25	40	8:55	0:49	9	8:15	9:04		354.3	354.3	354.3	Yard	SF				
9	130	Reg	SB	15	Sacramento-Irvine All-Stop		X	SAC	9:04	IRV	12:57	3:53	40	13:37	0:38	(2)	12:57	13:35		161.2	161.2	161.2						
9	281	Reg	NB	17	SF-Irvine Limited		X	IRV	13:35	SFT	17:19	3:44	30	17:49	0:31	1	17:19	17:50		446.6	446.6	446.6						
9	103	Reg	SB	14	SF-Sacramento All-Stop			SFT	17:50	SAC	20:15	2:25	40	20:55	--	--	20:15	--		354.3	354.3	354.3				Yard	SAC	
10	10	Reg	SB	1	Bay Area-San Diego Limited		X	SFT	6:00	SAN	10:29	4:29	40	11:09	0:55	15	10:29	11:24		476.9	476.9	476.9	Yard	SF				
10	202	Reg	NB	1	Bay Area-San Diego Limited		X	SAN	11:24	SFT	15:53	4:29	30	16:23	0:37	7	15:53	16:30		476.9	476.9	476.9						
10	91	Reg	SB	2	SF-LA-Irvine Express		X	SFT	16:30	IRV	19:46	3:16	40	20:26	--	--	19:46	--		446.6	446.6	0				Yard	ANA	
11	11	Peak O/T	SB	29	SF-San Diego Limited		X	SFT	6:03	SAN	10:53	4:50	40	11:33	4:45	245	10:53	15:38		0	0	0	Yard	SF		Layover		SD
11	223	Night	NB	41	Los Angeles-San Diego All-Stop			SAN	15:38	LAU	17:22	1:44	40	18:02	--	--	17:22	--		0	0	0	Layover		SD	Yard	LA	
12	12	Peak O/T	SB	28	SF-San Diego Limited		X	SFT	6:08	SAN	11:13	5:05	40	11:53	0:42	2	11:13	11:55		0	0	0	Yard	SF				
12	205	Peak O/T	NB	27	SF-San Diego Limited		X	SAN	11:55	SFT	16:49	4:54	30	17:19	0:38	8	16:49	17:27		0	0	0						
12	99	Reg	SB	39	SF-Sacramento Limited			SFT	17:27	SAC	19:32	2:05	40	20:12	0:46	6	19:32	20:18		0	0	0						
12	147	Reg	SB	15	Sacramento-Irvine All-Stop		X	SAC	20:18	IRV	0:11	3:53	40	0:51	--	--	0:11	--		161.2	161.2	161.2				Yard	ANA	
13	13	Peak O/T	SB	4	SF-LA-SD All-Stop		X	SFT	6:14	SAN	11:18	5:04	40	11:58	5:09	269	11:18	16:27		476.9	476.9	476.9	Yard	SF		Layover		SD
13	228	PM PEAK	NB	35	Sacramento-SD Ltd Exp		X	SAN	16:27	SAC	20:41	4:14	40	21:21	--	--	20:41	--		0	0	0	Layover		SD	Yard	SAC	
14	14	Reg	SB	2	SF-LA-Irvine Express		X	SFT	6:30	IRV	9:46	3:16	40	10:26	0:49	9	9:46	10:35		446.6	446.6	0	Yard	SF				
14	272	Reg	NB	17	SF-Irvine Limited		X	IRV	10:35	SFT	14:19	3:44	30	14:49	0:45	15	14:19	15:04		446.6	446.6	446.6						
14	79	PM Peak	SB	29	SF-San Diego Limited		X	SFT	15:04	SAN	20:00	4:56	40	20:40	--	--	20:00	--		0	0	0				Yard	SD	
15	15	Peak O/T	SB	21	SF-Irvine Limited		X	SFT	6:33	IRV	10:23	3:50	40	11:03	0:47	7	10:23	11:10		446.6	446.6	446.6	Yard	SF				
15	273	Reg	NB	15	Sacramento-Irvine All-Stop		X	IRV	11:10	SAC	14:55	3:45	40	15:35	0:45	5	14:55	15:40		161.2	161.2	161.2						
15	320	Reg	NB	14	SF-Sacramento All-Stop			SAC	15:40	SFT	18:05	2:25	30	18:35	--	--	18:05	--		354.3	354.3	354.3				Yard	SF	
16	16	Peak O/T	SB	18	SF-Irvine Limited		X	SFT	6:37	IRV	10:27	3:50	40	11:07	5:04	264	10:27	15:31		446.6	446.6	446.6	Yard	SF		Layover		ANA
16	289	Peak O/T	NB	18	SF-Irvine Limited		X	IRV	15:31	SFT	19:15	3:44	30	19:45	0:35	5	19:15	19:50		446.6	446.6	446.6						
16	113	Reg	SB	14	SF-Sacramento All-Stop			SFT	19:50	SAC	22:15	2:25	40	22:55	--	--	22:15	--		354.3	354.3	354.3				Yard	SAC	
17	17	Reg	SB	39	SF-Sacramento Limited			SFT	6:48	SAC	8:53	2:05	40	9:33	6:51	371	8:53	15:44		0	0	0	Yard	SF		Layover		SAC
17	138	Reg	SB	25	Sacramento-Irvine Limited		X	SAC	15:44	IRV	19:14	3:30	40	19:54	0:40	0	19:14	19:54		0	0	0	Layover		SAC			
17	304		NB	43	Irvine-Los Angeles Shuttle			IRV	19:54	LAU	20:28	0:34	40	21:08	--	--	20:28	--		0	0	0				Yard	LA	
18	18	Reg	SB	14	SF-Sacramento All-Stop			SFT	6:52	SAC	9:17	2:25	40	9:57	0:47	7	9:17	10:04		354.3	354.3	354.3	Yard	SF				
18	131	Reg	SB	15	Sacramento-Irvine All-Stop		X	SAC	10:04	IRV	13:57	3:53	40	14:37	0:43	3	13:57	14:40		161.2	161.2	161.2						
18	285	PM PEAK	NB	25	Sacramento-Irvine Limited		X	IRV	14:40	SAC	18:14	3:34	40	18:54	--	--	18:14	--		0	0	0				Yard	SAC	
19	19	Reg	SB	1	Bay Area-San Diego Limited		X	SFT	7:00	SAN	11:29	4:29	40	12:09	0:55	15	11:29	12:24		476.9	476.9	476.9	Yard	SF				
19	206	Reg	NB	1	Bay Area-San Diego Limited		X	SAN	12:24	SFT	16:53	4:29	30	17:23	0:37	7	16:53	17:30		476.9	476.9	476.9						
19	100	Reg	SB	2	SF-LA-Irvine Express		X	SFT	17:30	IRV	20:46	3:16	40	21:26	--	--	20:46	--		446.6	446.6	0				Yard	ANA	
20	20	Peak O/T	SB	29	SF-San Diego Limited		X	SFT	7:03	SAN	11:53	4:50	40	12:33	0:36	(4)	11:53	12:29		0	0	0	Yard	SF				
20	207	Reg	NB	4	SF-LA-SD All-Stop		X	SAN	12:29																			

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FULL BUILD SERVICE PLAN WITH SERVICE TO SACRAMENTO, SAN DIEGO AND IRVINE (Version 2)

Set	ID	OverlScheme	Dir	Consist	Pattern	Train Type	LARunThru	Orig	OrigTime	Dest	DestTime	RunTime	MinLay	Avail	Layover	Excess	DestArr	DestDep	T	TrnMi	SetMi	Wkend	Source	O-N Yd	Mid Yd	Disp	O-N Yd	Mid Yd
21	106	Reg	SB	17	SF-Irvine Limited		X	SFT	18:33	IRV	22:17	3:44	40	22:57	--	--	22:17	--		446.6	446.6	446.6				Yard	ANA	
22	22	Peak O/T	SB	4	SF-LA-SD All-Stop		X	SFT	7:14	SAN	12:18	5:04	40	12:58	1:06	26	12:18	13:24		476.9	476.9	476.9	Yard	SF				
22	210	Reg	NB	1	Bay Area-San Diego Limited		X	SAN	13:24	SFT	17:53	4:29	30	18:23	--	--	17:53	--		476.9	476.9	476.9				Yard	SF	
23	24	Peak O/T	SB	21	SF-Irvine Limited		X	SFT	7:33	IRV	11:23	3:50	40	12:03	5:08	268	11:23	16:31		446.6	446.6	446.6	Yard	SF		Layover	ANA	
23	294	Peak O/T	NB	18	SF-Irvine Limited		X	IRV	16:31	SFT	20:15	3:44	30	20:45	0:35	5	20:15	20:50		446.6	446.6	446.6						
23	116	Reg	SB	14	SF-Sacramento All-Stop			SFT	20:50	SAC	23:15	2:25	40	23:55	--	--	23:15	--		354.3	354.3	354.3				Yard	SAC	
24	25	Peak O/T	SB	18	SF-Irvine Limited		X	SFT	7:37	IRV	11:27	3:50	40	12:07	0:43	3	11:27	12:10		446.6	446.6	446.6	Yard	SF				
24	276	Reg	NB	15	Sacramento-Irvine All-Stop		X	IRV	12:10	SAC	15:55	3:45	40	16:35	0:45	5	15:55	16:40		161.2	161.2	161.2						
24	322	Reg	NB	14	SF-Sacramento All-Stop			SAC	16:40	SFT	19:05	2:25	30	19:35	--	--	19:05	--		354.3	354.3	354.3				Yard	SF	
25	26	Reg	SB	39	SF-Sacramento Limited			SFT	7:48	SAC	9:53	2:05	40	10:33	6:51	371	9:53	16:44		0	0	0	Yard	SF		Layover	SAC	
25	141	Reg	SB	25	Sacramento-Irvine Limited		X	SAC	16:44	IRV	20:14	3:30	40	20:54	--	--	20:14	--		0	0	0	Layover		SAC	Yard	ANA	
26	28	Reg	SB	1	Bay Area-San Diego Limited		X	SFT	8:00	SAN	12:29	4:29	40	13:09	1:04	24	12:29	13:33		476.9	476.9	476.9	Yard	SF				
26	211	Reg	NB	4	SF-LA-SD All-Stop		X	SAN	13:33	SFT	18:39	5:06	30	19:09	--	--	18:39	--		476.9	476.9	476.9				Yard	SF	
27	29	Peak O/T	SB	27	SF-San Diego Limited		X	SFT	8:03	SAN	12:57	4:54	40	13:37	0:47	7	12:57	13:44		0	0	0	Yard	SF				
27	212	Peak O/T	NB	7	SF-San Diego Limited		X	SAN	13:44	SFT	18:40	4:56	30	19:10	0:30	0	18:40	19:10		476.9	476.9	0						
27	110	Peak O/T	SB	27	SF-San Diego Limited		X	SFT	19:10	SAN	0:04	4:54	40	0:44	--	--	0:04	--		0	0	0				Yard	SD	
28	30	Peak O/T	SB	26	SF-San Diego Limited		X	SFT	8:08	SAN	13:05	4:57	40	13:45	0:44	4	13:05	13:49		0	0	0	Yard	SF				
28	213	Peak O/T	NB	9	SF-San Diego Limited		X	SAN	13:49	SFT	18:49	5:00	30	19:19	0:26	(4)	18:49	19:15		446.6	446.6	0						
28	111	Night	SB	4	SF-LA-SD All-Stop			SFT	19:15	LAU	22:41	3:26	40	23:21	--	--	22:41	--		476.9	476.9	476.9				Yard	LA	
29	36	Reg	SB	1	Bay Area-San Diego Limited		X	SFT	9:00	SAN	13:29	4:29	40	14:09	0:58	18	13:29	14:27		476.9	476.9	476.9	Yard	SF				
29	215	PM PEAK	NB	35	Sacramento-SD Ltd Exp		X	SAN	14:27	SAC	18:41	4:14	40	19:21	--	--	18:41	--		0	0	0				Yard	SAC	
30	37	Peak O/T	SB	27	SF-San Diego Limited		X	SFT	9:03	SAN	13:57	4:54	40	14:37	0:47	7	13:57	14:44		0	0	0	Yard	SF				
30	217	Peak O/T	NB	7	SF-San Diego Limited		X	SAN	14:44	SFT	19:43	4:59	30	20:13	0:32	2	19:43	20:15		476.9	476.9	0						
30	115	Night	SB	4	SF-LA-SD All-Stop			SFT	20:15	LAU	23:41	3:26	40	0:21	--	--	23:41	--		476.9	476.9	476.9				Yard	LA	
40	148	Night	SB	15	Sacramento-Irvine All-Stop		X	MCD	5:07	IRV	7:53	2:46	40	8:33	0:42	2	7:53	8:35		161.2	161.2	161.2	Yard	Merced				
40	266	Reg	NB	17	SF-Irvine Limited		X	IRV	8:35	SFT	12:19	3:44	30	12:49	0:44	14	12:19	13:03		446.6	446.6	446.6						
40	65	Peak O/T	SB	27	SF-San Diego Limited		X	SFT	13:03	SAN	17:57	4:54	40	18:37	0:32	(8)	17:57	18:29		0	0	0						
40	240	Reg	NB	4	SF-LA-SD All-Stop		X	SAN	18:29	SFT	23:35	5:06	30	0:05	--	--	23:35	--		476.9	476.9	476.9				Yard	SF	
41	120	Peak O/T	SB	15	Sacramento-Irvine All-Stop		X	SAC	5:12	IRV	9:06	3:54	40	9:46	0:29	(11)	9:06	9:35		161.2	161.2	161.2	Yard	SAC				
41	269	Reg	NB	17	SF-Irvine Limited		X	IRV	9:35	SFT	13:19	3:44	30	13:49	0:44	14	13:19	14:03		446.6	446.6	446.6						
41	72	Peak O/T	SB	27	SF-San Diego Limited		X	SFT	14:03	SAN	18:57	4:54	40	19:37	--	--	18:57	--		0	0	0				Yard	SD	
42	121	Reg	SB	35	Sacramento-SD Ltd Exp		X	SAC	5:35	SAN	9:59	4:24	40	10:39	0:48	8	9:59	10:47		0	0	0	Yard	SAC				
42	200	Peak O/T	NB	26	SF-San Diego Limited		X	SAN	10:47	SFT	15:43	4:56	30	16:13	0:32	2	15:43	16:15		0	0	0						
42	89	Peak O/T	SB	4	SF-LA-SD All-Stop		X	SFT	16:15	SAN	21:19	5:04	40	21:59	--	--	21:19	--		476.9	476.9	476.9				Yard	SD	
43	122	Reg	SB	25	Sacramento-Irvine Limited		X	SAC	6:10	IRV	9:40	3:30	40	10:20	0:48	8	9:40	10:28		0	0	0	Yard	SAC				
43	271	Reg	NB	16	SF-Irvine Limited		X	IRV	10:28	SFT	14:15	3:47	30	14:45	0:45	15	14:15	15:00		446.6	446.6	0						
43	78	Reg	SB	1	Bay Area-San Diego Limited		X	SFT	15:00	SAN	19:29	4:29	40	20:09	0:55	15	19:29	20:24		476.9	476.9	476.9						
43	245	Reg	NB	1	Bay Area-San Diego Limited			SAN	20:24	LAU	21:58	1:34	30	22:28	--	--	21:58	--		476.9	476.9	476.9				Yard	LA	
44	123	Peak O/T	SB	15	Sacramento-Irvine All-Stop		X	SAC	6:12	IRV	10:06	3:54	40	10:46	5:14	274	10:06	15:20		161.2	161.2	161.2	Yard	SAC		Layover	ANA	
44	288	Peak O/T	NB	19	SF-Irvine Limited		X	IRV	15:20	SFT	19:05	3:45	30	19:35	0:30	0	19:05	19:35		446.6	446.6	446.6						
44	112	Reg	SB	16	SF-Irvine Limited		X	SFT	19:35	IRV	23:22	3:47	40	0:02	--	--	23:22	--		446.6	446.6	0				Yard	ANA	
45	124	Reg	SB	35	Sacramento-SD Ltd Exp		X	SAC	6:35	SAN	10:59	4:24	40	11:39	0:48	8	10:59	11:47		0	0	0	Yard	SAC				
45	204	Peak O/T	NB	26	SF-San Diego Limited		X	SAN	11:47	SFT	16:43	4:56	30	17:13	0:32	2	16:43	17:15		0	0	0						
45	98	Peak O/T	SB	4	SF-LA-SD All-Stop		X	SFT	17:15	SAN	22:19	5:04	40	22:59	--	--	22:19	--		476.9	476.9	476.9				Yard	SD	
46	125	Reg	SB	25	Sacramento-Irvine Limited		X	SAC	7:10	IRV	10:40	3:30	40	11:20	0:48	8	10:40	11:28		0	0	0	Yard	SAC				
46	274	Reg	NB	16	SF-Irvine Limited		X	IRV	11:28	SFT	15:15	3:47	30	15:45	0:35	5	15:15	15:50		446.6	446.6	0						
46	85	Reg	SB	14	SF-Sacramento All-Stop			SFT	15:50	SAC	18:15	2:25	40	18:55	0:49	9	18:15	19:04		354.3	354.3	354.3						
46	146	Reg	SB	15	Sacramento-Irvine All-Stop		X	SAC	19:04	IRV	22:57	3:53	40	23:37	--	--	22:57	--		161.2	161.2	161.2				Yard	ANA	
47	126	Peak O/T	SB	15	Sacramento-Irvine All-Stop		X	SAC	7:12	IRV	11:06	3:54	40	11:46	5:14	274	11:06	16:20		161.2	161.2	161.2	Yard	SAC		Layover	ANA	
47	293	Peak O/T	NB	19	SF-Irvine Limited		X	IRV	16:20	SFT	20:05	3:45	30	20:35	--	--	20:05	--		446.6	446.6	446.6				Yard	SF	
48	127	Reg	SB	35	Sacramento-SD Ltd Exp		X	SAC	7:35	SAN	11:59	4:24	40	12:39	0:48	8	11:59	12:47		0	0	0	Yard	SAC				
48	208	Peak O/T	NB	26	SF-San Diego Limited		X	SAN	12:47	SFT	17:43	4:56	30	18:13	0:32	2	17:43	18:15		0	0	0						
48	105	Reg	SB	4	SF-LA-SD All-Stop		X	SFT	18:15	SAN	23:20	5:05	40	0:00	--	--	23:20	--		476.9	476.9	476.9				Yard	SD	
49	128	Reg	SB	15	Sacramento-Irvine All-Stop		X	SAC	8:04	IRV	11:57	3:53	40	12:37	0:38	(2)	11:57	12:35		161.2	161.2	161.2	Yard	SAC				
49	278	Reg	NB	17	SF-Irvine Limited		X	IRV	12:35	SFT	16:19	3:44	30	16:49	0:41	11	16:19	17:00		446.6	446.6	446.6						
49	95	Reg	SB	1	Bay Area-San Diego Limited		X	SFT	17:00	SAN	21:29	4:29	40	22:09	--	--	21:29	--		476.9	476.9	476.9				Yard	SD	
50	129	Reg	SB	25	Sacramento-Irvine Limited		X	SAC	8:10	IRV	11:40	3:30	40	12:20	0:48	8	11:40	12:28		0	0	0	Yard	SAC				
50	277	Reg	NB	16	SF-Irvine Limited		X	IRV	12:28	SFT	16:15	3:47	30	16:45	0:35	5	16:15	16:50		446.6	446.6	0						
50	94	Reg	SB	14	SF-Sacramento All-Stop			SFT</																				

CALIFORNIA HIGH SPEED TRAIN PROJECT  
APPENDIX A4 -- EQUIPMENT CYCLES (DRAFT)  
FULL BUILD SERVICE PLAN WITH SERVICE TO SACRAMENTO, SAN DIEGO AND IRVINE (Version 2)

Set	ID	OverlScheme	Dir	Consist	Pattern	Train Type	LARunThru	Orig	OrigTime	Dest	DestTime	RunTime	MinLay	Avail	Layover	Excess	DestArr	DestDep	T	TrnMi	SetMi	Wkend	Source	O-N Yd	Mid Yd	Disp	O-N Yd	Mid Yd	
51	86	Reg	SB	1		Bay Area-San Diego Limited	X	SFT	16:00	SAN	20:29	4:29	40	21:09	--	--	20:29	--		476.9	476.9	476.9				Yard		SD	
52	307	Reg	NB	39		SF-Sacramento Limited		SAC	5:20	SFT	7:24	2:04	30	7:54	0:28	(2)	7:24	7:52		0	0	0	Yard	SAC					
52	27	Reg	SB	14		SF-Sacramento All-Stop		SFT	7:52	SAC	10:17	2:25	40	10:57	0:47	7	10:17	11:04		354.3	354.3	354.3							
52	132	Reg	SB	15		Sacramento-Irvine All-Stop	X	SAC	11:04	IRV	14:57	3:53	40	15:37	0:43	3	14:57	15:40		161.2	161.2	161.2				Yard		SAC	
52	290	PM PEAK	NB	25		Sacramento-Irvine Limited	X	IRV	15:40	SAC	19:14	3:34	40	19:54	--	--	19:14	--		0	0	0				Yard		SAC	
53	308	Reg	NB	14		SF-Sacramento All-Stop		SAC	5:40	SFT	8:05	2:25	30	8:35	0:33	3	8:05	8:38		354.3	354.3	354.3	Yard	SAC					
53	33	Reg	SB	16		SF-Irvine Limited	X	SFT	8:38	IRV	12:25	3:47	40	13:05	1:03	23	12:25	13:28		446.6	446.6	0							
53	280	Reg	NB	16		SF-Irvine Limited	X	IRV	13:28	SFT	17:15	3:47	30	17:45	0:22	(8)	17:15	17:37		446.6	446.6	0							
53	102	Peak O/T	SB	20		SF-Irvine Limited	X	SFT	17:37	IRV	21:25	3:48	40	22:05	--	--	21:25	--		446.6	446.6	446.6				Yard		ANA	
54	309	Reg	NB	39		SF-Sacramento Limited		SAC	6:20	SFT	8:24	2:04	30	8:54	0:28	(2)	8:24	8:52		0	0	0	Yard	SAC					
54	35	Reg	SB	14		SF-Sacramento All-Stop		SFT	8:52	SAC	11:17	2:25	40	11:57	0:47	7	11:17	12:04		354.3	354.3	354.3							
54	133	Reg	SB	15		Sacramento-Irvine All-Stop	X	SAC	12:04	IRV	15:57	3:53	40	16:37	0:43	3	15:57	16:40		161.2	161.2	161.2				Yard		SAC	
54	295	PM PEAK	NB	25		Sacramento-Irvine Limited	X	IRV	16:40	SAC	20:14	3:34	40	20:54	--	--	20:14	--		0	0	0				Yard		SAC	
55	310	Reg	NB	14		SF-Sacramento All-Stop		SAC	6:40	SFT	9:05	2:25	30	9:35	6:59	389	9:05	16:04		354.3	354.3	354.3	Yard	SAC		Yard	Layover	SF	
55	87	PM Peak	SB	29		SF-San Diego Limited	X	SFT	16:04	SAN	21:00	4:56	40	21:40	--	--	21:00	--		0	0	0	Layover		SF	Yard		SD	
56	311	Reg	NB	39		SF-Sacramento Limited		SAC	7:20	SFT	9:24	2:04	30	9:54	0:39	9	9:24	10:03		0	0	0	Yard	SAC					
56	44	Peak O/T	SB	27		SF-San Diego Limited	X	SFT	10:03	SAN	14:57	4:54	40	15:37	0:47	7	14:57	15:44		0	0	0							
56	224	Peak O/T	NB	7		SF-San Diego Limited	X	SAN	15:44	SFT	20:43	4:59	30	21:13	0:32	2	20:43	21:15		476.9	476.9	0							
56	118	Reg	SB	4		SF-LA-SD All-Stop		SFT	21:15	BFD	23:30	2:15	40	0:10	--	--	23:30	--		476.9	476.9	476.9				Yard		BFD	
57	312	Reg	NB	14		SF-Sacramento All-Stop		SAC	7:40	SFT	10:05	2:25	30	10:35	0:45	15	10:05	10:50		354.3	354.3	354.3	Yard	SAC					
57	49	Reg	SB	14		SF-Sacramento All-Stop		SFT	10:50	SAC	13:15	2:25	40	13:55	0:49	9	13:15	14:04		354.3	354.3	354.3							
57	135	Reg	SB	15		Sacramento-Irvine All-Stop	X	SAC	14:04	IRV	17:57	3:53	40	18:37	0:30	(10)	17:57	18:27		161.2	161.2	161.2				Yard		LA	
57	301	Reg	NB	43		Irvine-Los Angeles Shuttle		IRV	18:27	LAU	19:01	0:34	40	19:41	--	--	19:01	--		0	0	0				Yard		LA	
58	313	Reg	NB	14		SF-Sacramento All-Stop		SAC	8:40	SFT	11:05	2:25	30	11:35	0:45	15	11:05	11:50		354.3	354.3	354.3	Yard	SAC					
58	56	Reg	SB	14		SF-Sacramento All-Stop		SFT	11:50	SAC	14:15	2:25	40	14:55	0:49	9	14:15	15:04		354.3	354.3	354.3							
58	136	PM Peak	SB	15		Sacramento-Irvine All-Stop	X	SAC	15:04	IRV	18:57	3:53	40	19:37	--	--	18:57	--		161.2	161.2	161.2				Yard		ANA	
61	168	Peak O/T	NB	7		SF-San Diego Limited	X	SAN	4:47	SFT	9:43	4:56	30	10:13	0:32	2	9:43	10:15		476.9	476.9	0	Yard	SD					
61	46	Reg	SB	4		SF-LA-SD All-Stop	X	SFT	10:15	SAN	15:20	5:05	40	16:00	0:57	17	15:20	16:17		476.9	476.9	476.9							
61	226	Night	NB	42		Los Angeles-San Diego Express		SAN	16:17	LAU	17:42	1:25	40	18:22	--	--	17:42	--		0	0	0				Yard		LA	
62	169	AM PEAK	NB	35		Sacramento-SD Ltd Exp	X	SAN	5:16	SAC	9:30	4:14	40	10:10	5:57	317	9:30	15:27		0	0	0	Yard	SD		Yard	Layover	SAC	
62	137	Reg	SB	35		Sacramento-SD Ltd Exp	X	SAC	15:27	SAN	19:53	4:26	40	20:33	--	--	19:53	--		0	0	0	Layover		SAC	Yard		SD	
63	170	Reg	NB	1		Bay Area-San Diego Limited	X	SAN	5:24	SFT	9:53	4:29	30	10:23	0:40	10	9:53	10:33		476.9	476.9	476.9	Yard	SD					
63	47	Reg	SB	17		SF-Irvine Limited	X	SFT	10:33	IRV	14:17	3:44	40	14:57	0:36	(4)	14:17	14:53		446.6	446.6	446.6							
63	286	Reg	NB	2		SF-LA-Irvine Express	X	IRV	14:53	SFT	18:10	3:17	30	18:40	0:32	2	18:10	18:42		446.6	446.6	0							
63	107	Reg	SB	39		SF-Sacramento Limited		SFT	18:42	SAC	20:47	2:05	40	21:27	--	--	20:47	--		0	0	0				Yard		SAC	
64	171	Peak O/T	NB	4		SF-LA-SD All-Stop	X	SAN	5:33	SFT	10:38	5:05	30	11:08	0:30	0	10:38	11:08		476.9	476.9	476.9	Yard	SD					
64	52	Peak O/T	SB	26		SF-San Diego Limited	X	SFT	11:08	SAN	16:05	4:57	40	16:45	0:42	2	16:05	16:47		0	0	0							
64	231	Peak O/T	NB	26		SF-San Diego Limited	X	SAN	16:47	SFT	21:43	4:56	30	22:13	--	--	21:43	--		0	0	0				Yard		SF	
65	172	Peak O/T	NB	7		SF-San Diego Limited	X	SAN	5:47	SFT	10:43	4:56	30	11:13	0:32	2	10:43	11:15		476.9	476.9	0	Yard	SD					
65	53	Reg	SB	4		SF-LA-SD All-Stop	X	SFT	11:15	SAN	16:20	5:05	40	17:00	0:35	(5)	16:20	16:55		476.9	476.9	476.9							
65	232	Peak O/T	NB	27		SF-San Diego Limited	X	SAN	16:55	SFT	21:49	4:54	30	22:19	--	--	21:49	--		0	0	0				Yard		SF	
66	173	Night	NB	41		Los Angeles-San Diego All-Stop		SAN	5:55	LAU	7:39	1:44	40	8:19	0:28	(12)	7:39	8:07		0	0	0	Yard	SD					
66	164	Night	SB	42		Los Angeles-San Diego Express		LAU	8:07	SAN	9:32	1:25	40	10:12	0:52	12	9:32	10:24		0	0	0							
66	198	Reg	NB	1		Bay Area-San Diego Limited	X	SAN	10:24	SFT	14:53	4:29	30	15:23	0:40	10	14:53	15:33		476.9	476.9	476.9							
66	83	Peak O/T	SB	21		SF-Irvine Limited	X	SFT	15:33	IRV	19:19	3:46	40	19:59	--	--	19:19	--		446.6	446.6	446.6				Yard		ANA	
67	174	AM PEAK	NB	35		Sacramento-SD Ltd Exp	X	SAN	6:16	SAC	10:30	4:14	40	11:10	5:57	317	10:30	16:27		0	0	0	Yard	SD		Yard	Layover	SAC	
67	140	Reg	SB	35		Sacramento-SD Ltd Exp	X	SAC	16:27	SAN	20:53	4:26	40	21:33	--	--	20:53	--		0	0	0	Layover		SAC	Yard		SD	
68	175	Night	NB	42		Los Angeles-San Diego Express		SAN	6:17	LAU	7:42	1:25	40	8:22	1:18	38	7:42	9:00		0	0	0	Yard	SD					
68	156	Night	SB	41		Los Angeles-San Diego All-Stop		LAU	9:00	SAN	10:44	1:44	40	11:24	0:45	5	10:44	11:29		0	0	0							
68	203	Reg	NB	4		SF-LA-SD All-Stop	X	SAN	11:29	SFT	16:35	5:06	30	17:05	0:33	3	16:35	17:08		476.9	476.9	476.9							
68	97	Peak O/T	SB	28		SF-San Diego Limited	X	SFT																					

CALIFORNIA HIGH SPEED TRAIN PROJECT  
APPENDIX A4 -- EQUIPMENT CYCLES (DRAFT)  
FULL BUILD SERVICE PLAN WITH SERVICE TO SACRAMENTO, SAN DIEGO AND IRVINE (Version 2)

Set	ID	OverlScheme	Dir	Consist	Pattern	Train Type	LARunThru	Orig	OrigTime	Dest	DestTime	RunTime	MinLay	Avail	Layover	Excess	DestArr	DestDep	T	TrnMi	SetMi	Wkend	Source	O-N Yd	Mid Yd	Disp	O-N Yd	Mid Yd
72	60	Reg	SB	4		SF-LA-SD All-Stop	X	SFT	12:15	SAN	17:20	5:05	40	18:00	0:35	(5)	17:20	17:55		476.9	476.9	476.9						
72	237	Peak O/T	NB	27		SF-San Diego Limited	X	SAN	17:55	SFT	22:49	4:54	30	23:19	--	--	22:49	--		0	0	0				Yard	SF	
73	180	Peak O/T	NB	27		SF-San Diego Limited	X	SAN	6:55	SFT	11:49	4:54	30	12:19	0:44	14	11:49	12:33		0	0	0	Yard	SD				
73	61	Reg	SB	17		SF-Irvine Limited	X	SFT	12:33	IRV	16:17	3:44	40	16:57	0:36	(4)	16:17	16:53		446.6	446.6	446.6						
73	296	Reg	NB	2		SF-LA-Irvine Express	X	IRV	16:53	SFT	20:10	3:17	30	20:40	--	--	20:10	--		446.6	446.6	0				Yard	SF	
74	181	SPECIAL	NB	35		Sacramento-SD Ltd Exp	X	SAN	7:16	SAC	11:32	4:16	40	12:12	5:55	315	11:32	17:27		0	0	0	Yard	SD		Layover	SAC	
74	143	Reg	SB	35		Sacramento-SD Ltd Exp	X	SAC	17:27	SAN	21:53	4:26	40	22:33	--	--	21:53	--		0	0	0	Layover		SAC	Yard	SD	
75	182	Night	NB	42		Los Angeles-San Diego Express		SAN	7:17	LAU	8:42	1:25	40	9:22	6:48	368	8:42	15:30		0	0	0	Yard	SD		Layover	LA	
75	157	Night	SB	41		Los Angeles-San Diego All-Stop		LAU	15:30	SAN	17:14	1:44	40	17:54	0:33	(7)	17:14	17:47		0	0	0						
75	236	Peak O/T	NB	26		SF-San Diego Limited	X	SAN	17:47	SFT	22:43	4:56	30	23:13	--	--	22:43	--		0	0	0				Yard	SF	
76	183	Reg	NB	1		Bay Area-San Diego Limited	X	SAN	7:24	SFT	11:53	4:29	30	12:23	0:45	15	11:53	12:38		476.9	476.9	476.9	Yard	SD				
76	62	Reg	SB	16		SF-Irvine Limited	X	SFT	12:38	IRV	16:25	3:47	40	17:05	0:45	5	16:25	17:10		446.6	446.6	0						
76	297	PM PEAK	NB	15		Sacramento-Irvine All-Stop	X	IRV	17:10	SAC	20:58	3:48	40	21:38	--	--	20:58	--		161.2	161.2	161.2				Yard	SAC	
77	184	Peak O/T	NB	4		SF-LA-SD All-Stop	X	SAN	7:29	SFT	12:34	5:05	30	13:04	0:34	4	12:34	13:08		476.9	476.9	476.9	Yard	SD				
77	66	Peak O/T	SB	26		SF-San Diego Limited	X	SFT	13:08	SAN	18:05	4:57	40	18:45	0:42	2	18:05	18:47		0	0	0						
77	241	Peak O/T	NB	26		SF-San Diego Limited	X	SAN	18:47	SFT	23:43	4:56	30	0:13	--	--	23:43	--		0	0	0				Yard	SF	
78	186	Peak O/T	NB	26		SF-San Diego Limited	X	SAN	7:47	SFT	12:43	4:56	30	13:13	0:32	2	12:43	13:15		0	0	0	Yard	SD				
78	67	Reg	SB	4		SF-LA-SD All-Stop	X	SFT	13:15	SAN	18:20	5:05	40	19:00	--	--	18:20	--		476.9	476.9	476.9				Yard	SD	
79	187	Peak O/T	NB	27		SF-San Diego Limited	X	SAN	7:55	SFT	12:49	4:54	30	13:19	0:44	14	12:49	13:33		0	0	0	Yard	SD				
79	68	Reg	SB	17		SF-Irvine Limited	X	SFT	13:33	IRV	17:17	3:44	40	17:57	0:37	(3)	17:17	17:54		446.6	446.6	446.6						
79	299		NB	43		Irvine-Los Angeles Shuttle		IRV	17:54	LAU	18:28	0:34	40	19:08	--	--	18:28	--		0	0	0				Yard	LA	
80	191	Night	NB	41		Los Angeles-San Diego All-Stop		SAN	8:35	LAU	10:19	1:44	40	10:59	6:48	368	10:19	17:07		0	0	0	Yard	SD		Layover	LA	
80	167	Night	SB	42		Los Angeles-San Diego Express		LAU	17:07	SAN	18:32	1:25	40	19:12	0:57	17	18:32	19:29		0	0	0						
80	243	Night	NB	4		SF-LA-SD All-Stop	X	SAN	19:29	SFT	0:30	5:01	30	1:00	--	--	0:30	--		476.9	476.9	476.9				Yard	SF	
81	192	Peak O/T	NB	26		SF-San Diego Limited	X	SAN	8:47	SFT	13:43	4:56	30	14:13	0:32	2	13:43	14:15		0	0	0	Yard	SD				
81	74	Reg	SB	4		SF-LA-SD All-Stop	X	SFT	14:15	SAN	19:20	5:05	40	20:00	--	--	19:20	--		476.9	476.9	476.9				Yard	SD	
82	229	Peak O/T	NB	4		SF-LA-SD All-Stop	X	SAN	16:33	SFT	21:38	5:05	30	22:08	--	--	21:38	--		476.9	476.9	476.9	Yard	SD		Yard	SF	
101	248	Reg	NB	2		SF-LA-Irvine Express	X	IRV	4:53	SFT	8:10	3:17	30	8:40	0:38	8	8:10	8:48		446.6	446.6	0	Yard	ANA				
101	34	Reg	SB	39		SF-Sacramento Limited		SFT	8:48	SAC	10:53	2:05	40	11:33	6:51	371	10:53	17:44		0	0	0				Layover	SAC	
101	144	Reg	SB	25		Sacramento-Irvine Limited	X	SAC	17:44	IRV	21:14	3:30	40	21:54	--	--	21:14	--		0	0	0	Layover		SAC	Yard	ANA	
102	249	Peak O/T	NB	15		Sacramento-Irvine All-Stop	X	IRV	5:09	SAC	8:56	3:47	40	9:36	0:44	4	8:56	9:40		161.2	161.2	161.2	Yard	ANA				
102	314	Reg	NB	14		SF-Sacramento All-Stop		SAC	9:40	SFT	12:05	2:25	30	12:35	0:45	15	12:05	12:50		354.3	354.3	354.3						
102	63	Reg	SB	14		SF-Sacramento All-Stop		SFT	12:50	SAC	15:15	2:25	40	15:55	0:49	9	15:15	16:04		354.3	354.3	354.3						
102	139	PM Peak	SB	15		Sacramento-Irvine All-Stop	X	SAC	16:04	IRV	19:57	3:53	40	20:37	--	--	19:57	--		161.2	161.2	161.2				Yard	ANA	
103	250	Peak O/T	NB	19		SF-Irvine Limited	X	IRV	5:27	SFT	9:05	3:38	30	9:35	0:33	3	9:05	9:38		446.6	446.6	446.6	Yard	ANA				
103	41	Reg	SB	16		SF-Irvine Limited	X	SFT	9:38	IRV	13:25	3:47	40	14:05	1:02	22	13:25	14:27		446.6	446.6	0						
103	283	Peak O/T	NB	19		SF-Irvine Limited	X	IRV	14:27	SFT	18:09	3:42	30	18:39	--	--	18:09	--		446.6	446.6	446.6				Yard	SF	
104	251	AM Pk Spl	NB	18		SF-Irvine Limited	X	IRV	5:31	SFT	9:19	3:48	30	9:49	0:41	11	9:19	10:00		446.6	446.6	446.6	Yard	ANA				
104	43	Reg	SB	1		Bay Area-San Diego Limited	X	SFT	10:00	SAN	14:29	4:29	40	15:09	0:55	15	14:29	15:24		476.9	476.9	476.9						
104	220	Reg	NB	1		Bay Area-San Diego Limited	X	SAN	15:24	SFT	19:53	4:29	30	20:23	--	--	19:53	--		476.9	476.9	476.9				Yard	SF	
105	252	AM PEAK	NB	25		Sacramento-Irvine Limited	X	IRV	5:40	SAC	9:14	3:34	40	9:54	7:05	385	9:14	16:19		0	0	0	Yard	ANA		Layover	SAC	
105	321	Reg	NB	39		SF-Sacramento Limited		SAC	16:19	SFT	18:23	2:04	30	18:53	0:37	7	18:23	19:00		0	0	0						
105	109	Reg	SB	1		Bay Area-San Diego Limited	X	SFT	19:00	SAN	23:29	4:29	40	0:09	--	--	23:29	--		476.9	476.9	476.9				Yard	SD	
106	253	Reg	NB	2		SF-LA-Irvine Express	X	IRV	5:53	SFT	9:10	3:17	30	9:40	0:40	10	9:10	9:50		446.6	446.6	0	Yard	ANA				
106	42	Reg	SB	14		SF-Sacramento All-Stop		SFT	9:50	SAC	12:15	2:25	40	12:55	0:49	9	12:15	13:04		354.3	354.3	354.3						
106	134	Reg	SB	15		Sacramento-Irvine All-Stop	X	SAC	13:04	IRV	16:57	3:53	40	17:37	0:33	(7)	16:57	17:30		161.2	161.2	161.2						
106	298		NB	43		Irvine-Los Angeles Shuttle		IRV	17:30	LAU	18:04	0:34	40	18:44	--	--	18:04	--		0	0	0				Yard	LA	
107	254	Peak O/T	NB	15		Sacramento-Irvine All-Stop	X	IRV	6:09	SAC	9:56	3:47	40	10:36	0:44	4	9:56	10:40		161.2	161.2	161.2	Yard	ANA				
107	315	Reg	NB	14		SF-Sacramento All-Stop		SAC	10:40	SFT	13:05	2:25	30	13:35	0:45	15	13:05	13:50		354.3	354.3	354.3						
107	70	Reg	SB	14		SF-Sacramento All-Stop		SFT	13:50	SAC	16:15	2:25	40	16:55	0:49	9	16:15	17:04		354.3	354.3	354.3						
107	142	PM Peak	SB	15		Sacramento-Irvine All-Stop	X	SAC	17:04	IRV	20:57	3:53	40	21:37	--	--	20:57	--		161.2	161.2	161.2				Yard	ANA	
108	255	Peak O/T	NB	19		SF-Irvine Limited	X	IRV	6:27	SFT	10:05	3:38	30	10:35	0:33	3	10:05	10:38		446.6	446.6	446.6	Yard	ANA				
108	48	Reg	SB	16		SF-Irvine Limited	X	SFT	10:38	IRV	14:25	3:47	40	15:05	0:45	5	14:25	15:10		446.6	446.6	0						
108	287	PM PEAK	NB	15		Sacramento-Irvine All-Stop	X	IRV	15:10	SAC	18:58	3:48	40	19:38	0:42	2	18:58	19:40		161.2	161.2	161.2						
108	327	Reg	NB	14		SF-Sacramento All-Stop		SAC	19:40	SFT	22:05	2:25	30	22:35	--	--	22:05	--		354.3	354.3	354.3				Yard	SF	
109	256	AM Pk Spl	NB	18		SF-Irvine Limited	X	IRV	6:31	SFT	10:19	3:48	30	10:49	0:44	14	10:19	11:03		446.6	446.6	446.6	Yard	ANA				
109	51	Peak O/T	SB	27		SF-San Diego Limited	X	SFT	11:03	SAN	15:57	4:54	40	16:37	0:41	1	15:57	16:38		0	0	0						
109	230	Night	NB	41		Los Angeles-San Diego All-Stop		SAN	16:38	LAU	18:22	1:44	40	19:02	--	--	18:22	--		0	0	0				Yard	LA	
110	257	AM PEAK	NB	25		Sacramento-Irvine Limited	X	IRV	6:40																			

CALIFORNIA HIGH SPEED TRAIN PROJECT  
APPENDIX A4 -- EQUIPMENT CYCLES (DRAFT)  
FULL BUILD SERVICE PLAN WITH SERVICE TO SACRAMENTO, SAN DIEGO AND IRVINE (Version 2)

Set	ID	OverlScheme	Dir	Consist	Pattern	Train Type	LARunThru	Orig	OrigTime	Dest	DestTime	RunTime	MinLay	Avail	Layover	Excess	DestArr	DestDep	T	TrnMi	SetMi	Wkend	Source	O-N Yd	Mid Yd	Disp	O-N Yd	Mid Yd
111	50	Reg	SB	1		Bay Area-San Diego Limited	X	SFT	11:00	SAN	15:29	4:29	40	16:09	0:55	15	15:29	16:24		476.9	476.9	476.9						
111	227	Reg	NB	1		Bay Area-San Diego Limited	X	SAN	16:24	SFT	20:53	4:29	30	21:23	--	--	20:53	--		476.9	476.9	476.9				Yard	SF	
112	259	Peak O/T	NB	21		SF-Irvine Limited	X	IRV	6:59	SFT	10:50	3:51	30	11:20	0:43	13	10:50	11:33		446.6	446.6	446.6	Yard	ANA				
112	54	Reg	SB	17		SF-Irvine Limited	X	SFT	11:33	IRV	15:17	3:44	40	15:57	0:36	(4)	15:17	15:53		446.6	446.6	446.6						
112	291	Reg	NB	2		SF-LA-Irvine Express	X	IRV	15:53	SFT	19:10	3:17	30	19:40	--	--	19:10	--		446.6	446.6	0				Yard	SF	
113	260	Peak O/T	NB	15		Sacramento-Irvine All-Stop	X	IRV	7:08	SAC	10:57	3:49	40	11:37	0:43	3	10:57	11:40		161.2	161.2	161.2	Yard	ANA				
113	316	Reg	NB	14		SF-Sacramento All-Stop		SAC	11:40	SFT	14:05	2:25	30	14:35	0:45	15	14:05	14:50		354.3	354.3	354.3						
113	77	Reg	SB	14		SF-Sacramento All-Stop		SFT	14:50	SAC	17:15	2:25	40	17:55	0:49	9	17:15	18:04		354.3	354.3	354.3						
113	145	Reg	SB	15		Sacramento-Irvine All-Stop	X	SAC	18:04	IRV	21:57	3:53	40	22:37	--	--	21:57	--		161.2	161.2	161.2				Yard	ANA	
114	261	Reg	NB	16		SF-Irvine Limited	X	IRV	7:28	SFT	11:15	3:47	30	11:45	0:45	15	11:15	12:00		446.6	446.6	0	Yard	ANA				
114	57	Reg	SB	1		Bay Area-San Diego Limited	X	SFT	12:00	SAN	16:29	4:29	40	17:09	0:48	8	16:29	17:17		476.9	476.9	476.9						
114	238	Night	NB	42		Los Angeles-San Diego Express		SAN	17:17	LAU	18:42	1:25	40	19:22	--	--	18:42	--		0	0	0				Yard	LA	
115	262	Reg	NB	17		SF-Irvine Limited	X	IRV	7:35	SFT	11:19	3:44	30	11:49	0:44	14	11:19	12:03		446.6	446.6	446.6	Yard	ANA				
115	58	Peak O/T	SB	27		SF-San Diego Limited	X	SFT	12:03	SAN	16:57	4:54	40	17:37	0:32	(8)	16:57	17:29		0	0	0						
115	234	Peak O/T	NB	4		SF-LA-SD All-Stop	X	SAN	17:29	SFT	22:34	5:05	30	23:04	--	--	22:34	--		476.9	476.9	476.9				Yard	SF	
117	264	Peak O/T	NB	15		Sacramento-Irvine All-Stop	X	IRV	8:08	SAC	11:57	3:49	40	12:37	0:43	3	11:57	12:40		161.2	161.2	161.2	Yard	ANA				
117	317	Reg	NB	14		SF-Sacramento All-Stop		SAC	12:40	SFT	15:05	2:25	30	15:35	0:32	2	15:05	15:37		354.3	354.3	354.3						
117	84	Peak O/T	SB	20		SF-Irvine Limited	X	SFT	15:37	IRV	19:25	3:48	40	20:05	0:43	3	19:25	20:08		446.6	446.6	446.6						
117	305	Night	NB	15		Sacramento-Irvine All-Stop	X	IRV	20:08	SAC	23:55	3:47	40	0:35	--	--	23:55	--		161.2	161.2	161.2				Yard	SAC	
118	265	Reg	NB	16		SF-Irvine Limited	X	IRV	8:28	SFT	12:15	3:47	30	12:45	0:45	15	12:15	13:00		446.6	446.6	0	Yard	ANA				
118	64	Reg	SB	1		Bay Area-San Diego Limited	X	SFT	13:00	SAN	17:29	4:29	40	18:09	0:48	8	17:29	18:17		476.9	476.9	476.9						
118	238	Night	NB	42		Los Angeles-San Diego Express		SAN	18:17	LAU	19:42	1:25	40	20:22	1:28	48	19:42	21:10		0	0	0						
118	160	Night	SB	41		Los Angeles-San Diego All-Stop		LAU	21:10	SAN	22:54	1:44	40	23:34	--	--	22:54	--		0	0	0				Yard	SD	
130	336	Peak O/T	NB	4		SF-LA-SD All-Stop		BFD	5:30	SFT	7:45	2:15	30	8:15	0:30	0	7:45	8:15		476.9	476.9	476.9	Yard	BFD				
130	31	Reg	SB	4		SF-LA-SD All-Stop	X	SFT	8:15	SAN	13:20	5:05	40	14:00	1:04	24	13:20	14:24		476.9	476.9	476.9						
130	214	Reg	NB	1		Bay Area-San Diego Limited	X	SAN	14:24	SFT	18:53	4:29	30	19:23	--	--	18:53	--		476.9	476.9	476.9				Yard	SF	
131	329	Reg	NB	1		Bay Area-San Diego Limited		LAU	5:00	SFT	7:53	2:53	30	8:23	0:40	10	7:53	8:33		476.9	476.9	476.9	Yard	LA				
131	32	Reg	SB	17		SF-Irvine Limited	X	SFT	8:33	IRV	12:17	3:44	40	12:57	0:53	13	12:17	13:10		446.6	446.6	446.6						
131	279	Reg	NB	15		Sacramento-Irvine All-Stop	X	IRV	13:10	SAC	16:55	3:45	40	17:35	0:45	5	16:55	17:40		161.2	161.2	161.2						
131	324	Reg	NB	14		SF-Sacramento All-Stop		SAC	17:40	SFT	20:05	2:25	30	20:35	--	--	20:05	--		354.3	354.3	354.3				Yard	SF	
132	330	Peak O/T	NB	4		SF-LA-SD All-Stop		LAU	5:10	SFT	8:39	3:29	30	9:09	0:29	(1)	8:39	9:08		476.9	476.9	476.9	Yard	LA				
132	38	Peak O/T	SB	26		SF-San Diego Limited	X	SFT	9:08	SAN	14:05	4:57	40	14:45	0:44	4	14:05	14:49		0	0	0						
132	218	Peak O/T	NB	9		SF-San Diego Limited	X	SAN	14:49	SFT	19:49	5:00	30	20:19	--	--	19:49	--		446.6	446.6	0				Yard	SF	
133	331	Peak O/T	NB	20		SF-Irvine Limited	X	LAU	5:33	SFT	8:43	3:10	30	9:13	0:32	2	8:43	9:15		446.6	446.6	446.6	Yard	LA				
133	39	Reg	SB	4		SF-LA-SD All-Stop	X	SFT	9:15	SAN	14:20	5:05	40	15:00	0:57	17	14:20	15:17		476.9	476.9	476.9						
133	219	Night	NB	42		Los Angeles-San Diego Express		SAN	15:17	LAU	16:42	1:25	40	17:22	0:48	8	16:42	17:30		0	0	0						
133	159	Night	SB	41		Los Angeles-San Diego All-Stop		LAU	17:30	SAN	19:14	1:44	40	19:54	--	--	19:14	--		0	0	0				Yard	SD	
134	332	Peak O/T	NB	21		SF-Irvine Limited	X	LAU	5:35	SFT	9:49	4:14	30	10:19	6:44	374	9:49	16:33		446.6	446.6	446.6	Yard	LA		Layover	SF	
134	92	Peak O/T	SB	21		SF-Irvine Limited	X	SFT	16:33	IRV	20:19	3:46	40	20:59	--	--	20:19	--		446.6	446.6	446.6	Layover		SF	Yard	ANA	
135	333	Reg	NB	1		Bay Area-San Diego Limited		LAU	6:00	SFT	8:53	2:53	30	9:23	0:40	10	8:53	9:33		476.9	476.9	476.9	Yard	LA				
135	40	Reg	SB	17		SF-Irvine Limited	X	SFT	9:33	IRV	13:17	3:44	40	13:57	0:53	13	13:17	14:10		446.6	446.6	446.6						
135	282	Reg	NB	15		Sacramento-Irvine All-Stop	X	IRV	14:10	SAC	17:55	3:45	40	18:35	0:45	5	17:55	18:40		161.2	161.2	161.2						
135	326	Reg	NB	14		SF-Sacramento All-Stop		SAC	18:40	SFT	21:05	2:25	30	21:35	0:45	15	21:05	21:50		354.3	354.3	354.3						
135	119	Reg	SB	14		SF-Sacramento All-Stop		SFT	21:50	MCD	23:21	1:31	40	0:01	--	--	23:21	--		354.3	354.3	354.3				Yard	Merced	
136	334	Peak O/T	NB	4		SF-LA-SD All-Stop		LAU	6:10	SFT	9:39	3:29	30	10:09	0:29	(1)	9:39	10:08		476.9	476.9	476.9	Yard	LA				
136	45	Peak O/T	SB	26		SF-San Diego Limited	X	SFT	10:08	SAN	15:05	4:57	40	15:45	0:44	4	15:05	15:49		0	0	0						
136	225	Peak O/T	NB	9		SF-San Diego Limited	X	SAN	15:49	SFT	20:49	5:00	30	21:19	--	--	20:49	--		446.6	446.6	0				Yard	SF	
137	335	Peak O/T	NB	21		SF-Irvine Limited	X	LAU	6:35	SFT	9:50	3:15	30	10:20	7:14	404	9:50	17:04		446.6	446.6	446.6	Yard	LA		Layover	SF	
137	96	PM Peak	SB	29		SF-San Diego Limited	X	SFT	17:04	SAN	22:00	4:56	40	22:40	--	--	22:00	--		0	0	0	Layover		SF	Yard	SD	
141	152	Night	SB	41		Los Angeles-San Diego All-Stop		LAU	5:10	SAN	6:54	1:44	40	7:34	0:41	1	6:54	7:35		0	0	0	Yard	LA				
141	185	Night	NB	41		Los Angeles-San Diego All-Stop		SAN	7:35	LAU	9:19	1:44	40	9:59	6:48	368	9:19	16:07		0	0	0				Layover	LA	
141	166	Night	SB	42		Los Angeles-San Diego Express		LAU	16:07	SAN	17:32	1:25	40	18:12	0:52	12	17:32	18:24		0	0	0						
141	239	Reg	NB	1		Bay Area-San Diego Limited	X	SAN	18:24	SFT	22:53	4:29	30	23:23	--	--	22:53	--		476.9	476.9	476.9				Yard	SF	
142	153	Night	SB	41		Los Angeles-San Diego All-Stop		LAU	5:40	SAN	7:24	1:44	40	8:04	0:53	13	7:24	8:17		0	0	0	Yard	LA				
142	188	Night	NB	42		Los Angeles-San Diego Express		SAN	8:17	LAU	9:42	1:25	40	10:22	6:48	368	9:42	16:30		0	0	0				Layover	LA	
142	158	Night	SB	41		Los Angeles-San Diego All-Stop		LAU	16:30	SAN	18:14	1:44	40	18:54	--	--	18:14	--		0	0	0				Yard	SD	
143	162	Night	SB	42		Los Angeles-San Diego Express		LAU	6:07	SAN	7:32	1:25	40	8:12	0:52	12	7:32	8:24		0	0	0	Yard	LA				
143	189	Reg	NB	1		Bay Area-San Diego Limited	X	SAN	8:24	SFT	12:53	4:29	30	13:23	0:45	15	12:53	13:38		476.9	476.9	476.9						
143	69	Reg	SB	16		SF-Irvine Limited	X	SFT	13:38	IRV	17:25	3:47	40	18:05	0:45	5	17											

CALIFORNIA HIGH SPEED TRAIN PROJECT  
 APPENDIX A4 -- EQUIPMENT CYCLES (DRAFT)  
 FULL BUILD SERVICE PLAN WITH SERVICE TO SACRAMENTO, SAN DIEGO AND IRVINE (Version 2)

Set	ID	OverlScheme	Dir	Consist	Pattern	Train Type	LARunThru	Orig	OrigTime	Dest	DestTime	RunTime	MinLay	Avail	Layover	Excess	DestArr	DestDep	T	TrnMi	SetMi	Wkend	Source	O-N Yd	Mid Yd	Disp	O-N Yd	Mid Yd
144	73	Peak O/T	SB	26	SF-San Diego Limited		X	SFT	14:08	SAN	19:05	4:57	40	19:45	0:45	5	19:05	19:50		0	0	0						
144	244	Night	NB	41	Los Angeles-San Diego All-Stop			SAN	19:50	LAU	21:34	1:44	40	22:14	--	--	21:34	--		0	0	0				Yard	LA	
145	154	Night	SB	41	Los Angeles-San Diego All-Stop			LAU	6:30	SAN	8:14	1:44	40	8:54	0:41	1	8:14	8:55		0	0	0	Yard	LA				
145	193	Peak O/T	NB	27	SF-San Diego Limited		X	SAN	8:55	SFT	13:49	4:54	30	14:19	0:44	14	13:49	14:33		0	0	0						
145	75	Reg	SB	17	SF-Irvine Limited		X	SFT	14:33	IRV	18:17	3:44	40	18:57	0:37	(3)	18:17	18:54		446.6	446.6	446.6						
145	302		NB	43	Irvine-Los Angeles Shuttle			IRV	18:54	LAU	19:28	0:34	40	20:08	--	--	19:28	--		0	0	0				Yard	LA	
146	151	Night	SB	4	SF-LA-SD All-Stop			LAU	6:48	SAN	8:22	1:34	40	9:02	1:02	22	8:22	9:24		476.9	476.9	476.9	Yard	LA				
146	194	Reg	NB	1	Bay Area-San Diego Limited		X	SAN	9:24	SFT	13:53	4:29	30	14:23	0:45	15	13:53	14:38		476.9	476.9	476.9						
146	76	Reg	SB	16	SF-Irvine Limited		X	SFT	14:38	IRV	18:25	3:47	40	19:05	0:43	3	18:25	19:08		446.6	446.6	0						
146	303	Night	NB	15	Sacramento-Irvine All-Stop		X	IRV	19:08	SAC	22:55	3:47	40	23:35	--	--	22:55	--		161.2	161.2	161.2				Yard	SAC	
147	163	Night	SB	42	Los Angeles-San Diego Express			LAU	7:07	SAN	8:32	1:25	40	9:12	0:57	17	8:32	9:29		0	0	0	Yard	LA				
147	195	Reg	NB	4	SF-LA-SD All-Stop		X	SAN	9:29	SFT	14:35	5:06	30	15:05	0:33	3	14:35	15:08		476.9	476.9	476.9						
147	80	Peak O/T	SB	28	SF-San Diego Limited		X	SFT	15:08	SAN	20:11	5:03	40	20:51	0:39	(1)	20:11	20:50		0	0	0						
147	246	Night	NB	41	Los Angeles-San Diego All-Stop			SAN	20:50	LAU	22:34	1:44	40	23:14	--	--	22:34	--		0	0	0				Yard	LA	
148	150	Reg	SB	1	Bay Area-San Diego Limited			LAU	7:10	SAN	8:44	1:34	40	9:24	1:03	23	8:44	9:47		476.9	476.9	476.9	Yard	LA				
148	196	Peak O/T	NB	26	SF-San Diego Limited		X	SAN	9:47	SFT	14:43	4:56	30	15:13	0:32	2	14:43	15:15		0	0	0						
148	81	Peak O/T	SB	4	SF-LA-SD All-Stop		X	SFT	15:15	SAN	20:19	5:04	40	20:59	--	--	20:19	--		476.9	476.9	476.9				Yard	SD	
149	155	Night	SB	41	Los Angeles-San Diego All-Stop			LAU	7:30	SAN	9:14	1:44	40	9:54	0:41	1	9:14	9:55		0	0	0	Yard	LA				
149	197	Peak O/T	NB	27	SF-San Diego Limited		X	SAN	9:55	SFT	14:49	4:54	30	15:19	0:41	11	14:49	15:30		0	0	0						
149	82	Reg	SB	2	SF-LA-Irvine Express		X	SFT	15:30	IRV	18:46	3:16	40	19:26	--	--	18:46	--		446.6	446.6	0				Yard	ANA	
150	229		SB	43	Irvine-Los Angeles Shuttle			LAU	6:26	IRV	7:00	0:34	40	7:40	0:40	0	7:00	7:40		0	0	0	Yard	LA				
150	263	SPECIAL	NB	25	Sacramento-Irvine Limited		X	IRV	7:40	SAC	11:09	3:29	40	11:49	7:10	390	11:09	18:19		0	0	0				Layover	SAC	
150	325	Reg	NB	39	SF-Sacramento Limited			SAC	18:19	SFT	20:23	2:04	30	20:53	0:37	7	20:23	21:00		0	0	0						
150	117	Reg	SB	1	Bay Area-San Diego Limited			SFT	21:00	LAU	23:53	2:53	40	0:33	--	--	23:53	--		476.9	476.9	476.9				Yard	LA	
151	229		SB	43	Irvine-Los Angeles Shuttle			LAU	7:51	IRV	8:25	0:34	40	9:05	0:45	5	8:25	9:10		0	0	0	Yard	LA				
151	267	PM PEAK	NB	15	Sacramento-Irvine All-Stop		X	IRV	9:10	SAC	12:58	3:48	40	13:38	0:42	2	12:58	13:40		161.2	161.2	161.2						
151	318	Reg	NB	14	SF-Sacramento All-Stop			SAC	13:40	SFT	16:05	2:25	30	16:35	0:32	2	16:05	16:37		354.3	354.3	354.3						
151	93	Peak O/T	SB	20	SF-Irvine Limited		X	SFT	16:37	IRV	20:25	3:48	40	21:05	0:43	3	20:25	21:08		446.6	446.6	446.6						
151	306	Night	NB	15	Sacramento-Irvine All-Stop		X	IRV	21:08	MCD	23:56	2:48	40	0:36	--	--	23:56	--		161.2	161.2	161.2				Yard	Merced	

Pattern Counts:	Train Counts:	Run Thru	Orig	Dest
1	37	LAU	119	119
2	12	LAU	50	50
4	37		2	2
7	5		1	1
9	3		27	27
14	34		59	59
15	34		81	81
16	15			
17	15			
18	8			
19	5			
20	4			
21	9			
25	12			
26	17			
27	17			
28	6			
29	6			
35	12			
39	12			
41	19			
42	13			
43	7			
Total	339	240	339	339

	107		107	
YARDS:	O/N	Midday	O/N	Midday
SF	30	3	30	3
SAC	17	6	17	9
Merced	2	0	2	0
BFD	1	0	1	0
LA	18	0	18	5
ANA	17	0	17	5
SD	22	5	22	5
Total	107	14	107	27