

California Passenger Rail NETWORK SCHEMATICS

April 2016



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April 2016

This booklet includes schematic drawings of California's heavy rail corridors that are used for the operation of state intercity and commuter passenger rail service. The contents are conceptual only and were prepared for the convenience of reference. Drawings are not to scale and they should not be relied upon as representation express or implied, of the actual length, location or dimensions of any rail service or subdivision.

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California Department of Transportation
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Sacramento, CA 95814



prepared by
SMA Rail Consulting + IT, Corp.
www.sma-usa.com

with
Jacobs
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In partnership with



HAVE FEEDBACK?

The production team strove to provide the most accurate information in this first release of the expanded and reformatted California Passenger Rail Network Schematics booklet. In the event that you discover any errors in the schematics, please let us know by using the envelope link that appears at the bottom of each page. This data will be used to update the schematics in order to maintain the integrity of future releases.

You can also email us at schematics@sma-usa.com.



HYPERLINK INSTRUCTIONS

For convenience and ease of use, this PDF booklet includes hyperlinks. By clicking on the hyperlink a user's view will jump to the corresponding linked location. Detailed below are the locations where you will find hyperlinks in this document and how to use them.

LEGEND PAGE

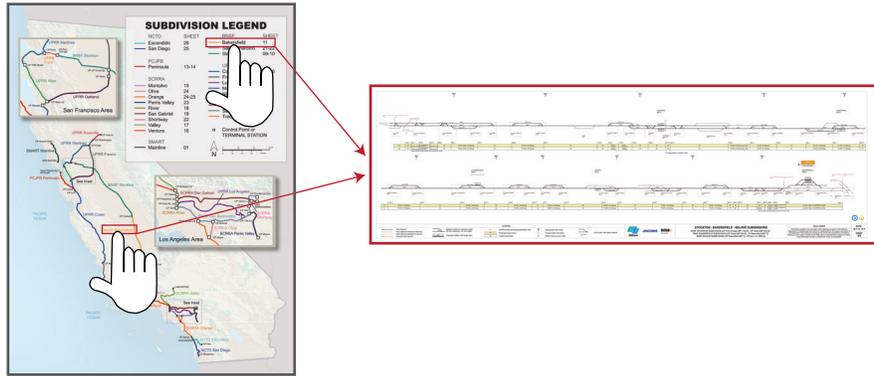
Hyperlinks are embedded in the subdivision names on both the map and legend list

Both links direct the user to the corresponding subdivision schematic sheet



The home icon located on the bottom right of each schematic page links the user back to the legend page

Legend Page linked to Bakersfield Subdivision (Sheet 11)

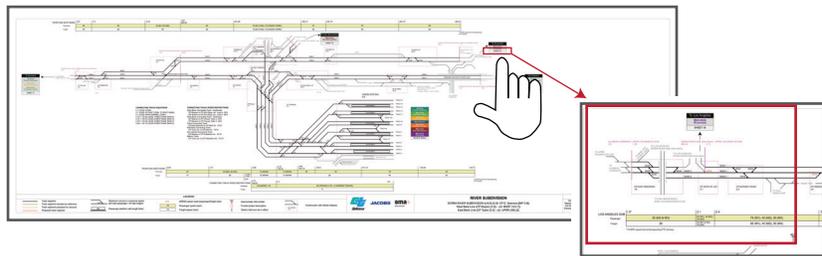


SERVICE ROUTE BOX

Hyperlinks are embedded in service route continuation boxes

These links direct the user to the subdivision where the service continues

River Subdivision (Sheet 16) linked to Los Angeles Subdivision (Sheet 20)

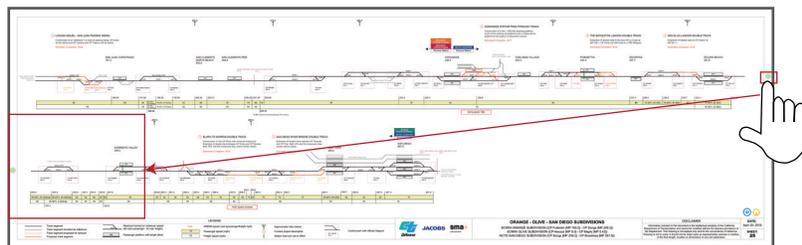


JUMP TO NEXT LINE OR PAGE

Hyperlinks are embedded in the arrow symbols at the end and start of the line and page breaks in a subdivision

These links direct the user to the next or previous line or page

Orange-Olive-San Diego Subdivisions (Sheet 25) link to next line



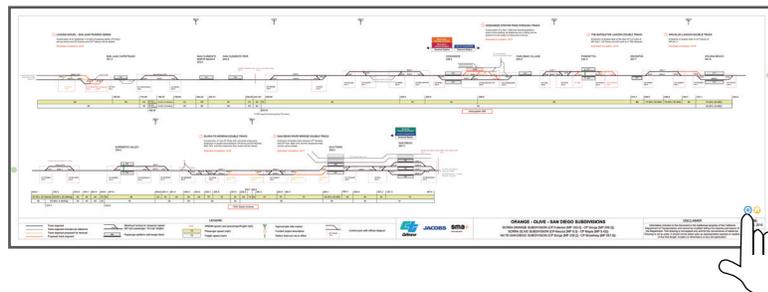
EMAIL FEEDBACK



Hyperlinks are embedded in the envelope icon at the bottom right of each page

These links launch a new message in the user's default email client for comments to be sent directly to the production team

Orange-Olive-San Diego Subdivisions (Sheet 25) link to email

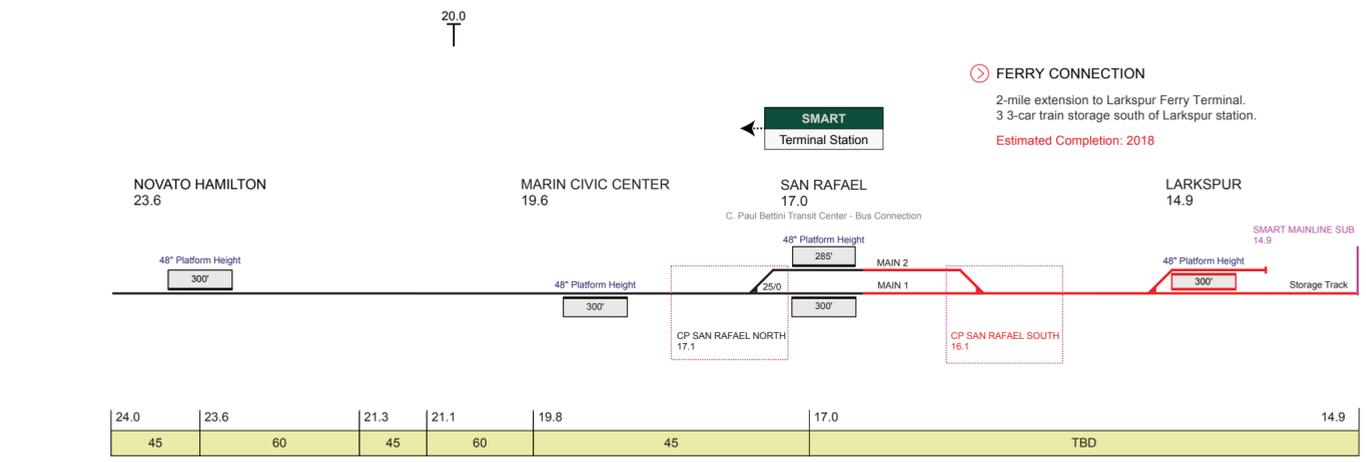
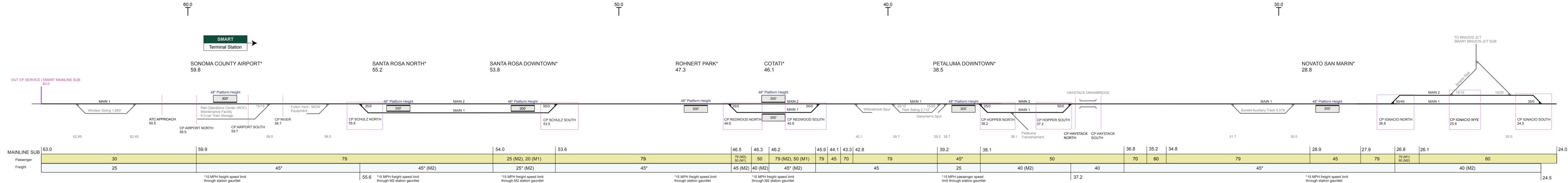


SUBDIVISION LEGEND

NCTD		SHEET		BNSF		SHEET	
	Escondido	27			Bakersfield	11	
	San Diego	26			San Bernardino	22 - 23	
					Stockton	09 - 10	
PCJPB				UPRR			
	Peninsula	13 - 14			Coast	05 - 06	
					Fresno	07	
SCRRRA							
	Montalvo	15			Los Angeles	21	
	Olive	25			Martinez	03	
	Orange	25 - 26			Niles	04	
	Perris Valley	24			Oakland	12	
	River	18			Roseville	02	
	San Gabriel	19 - 20			Santa Barbara	15	
	Shortway	23			Tracy	08	
	Valley	17					
	Ventura	16					
SMART							
	Mainline	01					

Control Point or
TERMINAL STATION





FERRY CONNECTION
 2-mile extension to Larkspur Ferry Terminal.
 3 3-car train storage south of Larkspur station.
 Estimated Completion: 2018

LEGEND

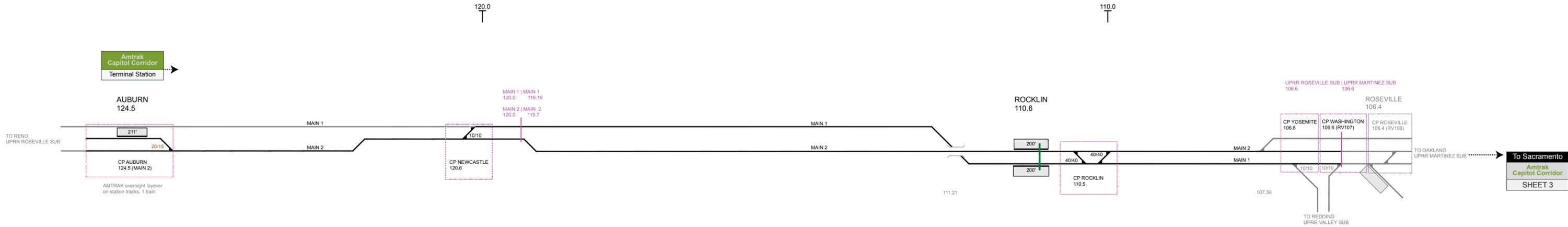
	Track segment		AREMA speed used (passenger/freight mph)		Approximate mile marker		Control point with official milepost
	Track segment included as reference		Maximum turnout or crossover speed (60 mph passenger / 40 mph freight)		Station hold-out rule in effect		
	Track segment proposed for removal		Passenger platform with length (feet)		Passenger speed (mph)		
	Proposed track segment		Passenger platform with length (feet)		Freight speed (mph)		



SMART MAINLINE SUBDIVISION
 SMART MAINLINE SUBDIVISION (Cloverdale [MP 63.0]- Larkspur [MP 14.9])

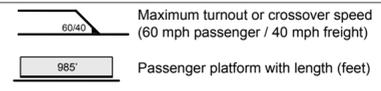
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DATE:
July 26, 2016
SHEET:
1



ROSEVILLE SUB	125.0	118.5	118.4	115.1	111.0	106.6
Passenger	30 (M1), 50 (M2)		25 (M1), 50 (M2)	30 (M1), 50 (M2)	40 (M1), 50 (M2)	40
Freight	25 (M1), 40 (M2)	30 (M1), 40 (M2)	25 (M1), 40 (M2)	30 (M1), 40 (M2)	35 (M1), 40 (M2)	40
	121.7					

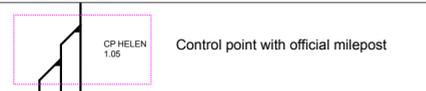
- Track segment
- Track segment included as reference
- Track segment proposed for removal
- Proposed track segment



LEGEND

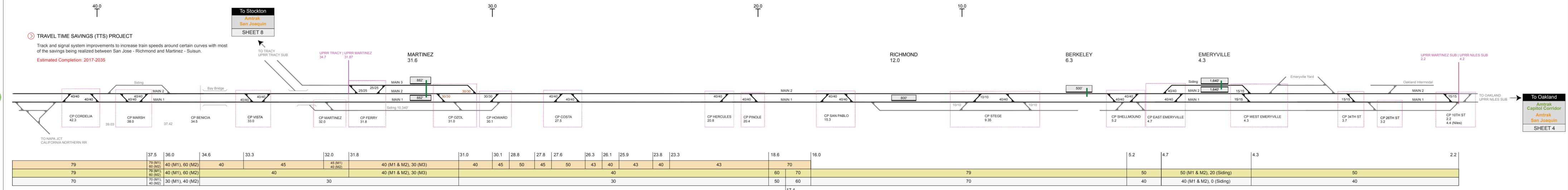
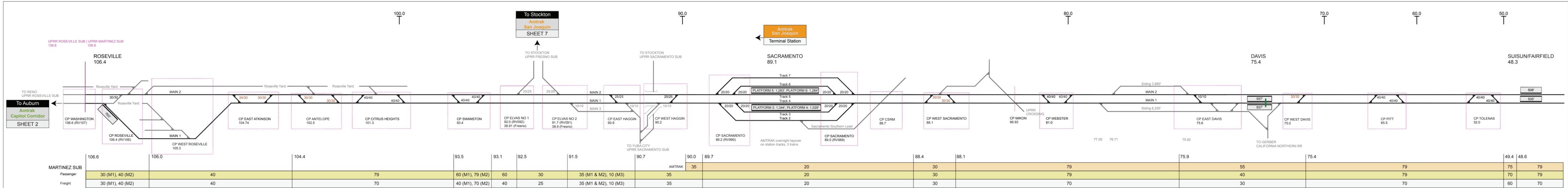
45/40	AREMA speed used (passenger/freight mph)
79	Passenger speed (mph)
70	Freight speed (mph)

- Approximate mile marker
- Funded project description
- Station hold-out rule in effect



ROSEVILLE SUBDIVISION
 UPRR ROSEVILLE SUBDIVISION (CP Auburn [MP 124.5] - CP Washington [MP 106.6])

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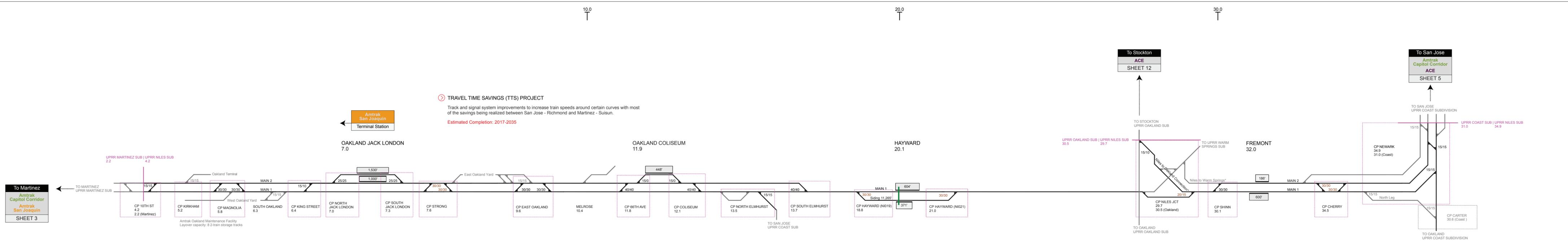
LEGEND

- Track segment
- Track segment included as reference
- Track segment proposed for removal
- Proposed track segment
- Maximum turnout or crossover speed (60 mph passenger / 40 mph freight)
- Passenger platform with length (feet)
- AREMA speed used (passenger/freight mph)
- Passenger speed (mph)
- Freight speed (mph)
- Approximate mile marker
- Funded project description
- Station hold-out rule in effect
- Control point with official milepost

MARTINEZ SUBDIVISION
UPRR MARTINEZ SUBDIVISION (CP Washington [MP 106.6] - CP 10th St. [MP 2.2])

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DATE: April 25, 2016
SHEET: 3



TRAVEL TIME SAVINGS (TTS) PROJECT
 Track and signal system improvements to increase train speeds around certain curves with most of the savings being realized between San Jose - Richmond and Martinez - Suisun.
 Estimated Completion: 2017-2035

NILES SUB	4.2	5.9	7.6	11.8	12.1	13.5	13.7	18.8	21.0	29.2	29.7	30.1	31.9	32.2	34.5	34.9
Passenger	50	25	79	79 (M1 & M2), 15 (Siding)	79	79 (M1), 30 (M2)	79	79 (M1), 30 (Siding)	79	35	15	79	45	79	15	
Freight	40	15	60	60 (M1 & M2), 0 (Siding)	60	60 (M1), 30 (M2)	50	50 (M1), 30 (Siding)	50	10	45	10				

*15/10 Niles to Oakland Connection
 10/10 Niles to Warm Springs

LEGEND

- Track segment
- Track segment included as reference
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- Proposed track segment
- Maximum turnout or crossover speed (60 mph passenger / 40 mph freight)
- Passenger platform with length (feet)
- AREMA speed used (passenger/freight mph)
- Passenger speed (mph)
- Freight speed (mph)
- Approximate mile marker
- Funded project description
- Station hold-out rule in effect
- Control point with official milepost

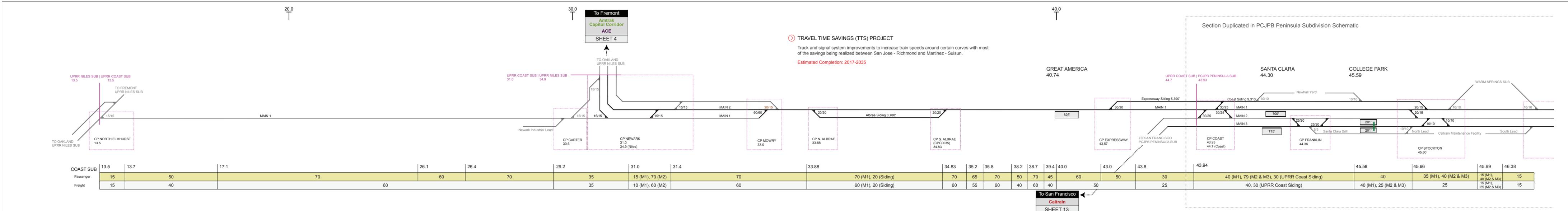
NILES SUBDIVISION
 UPRR NILES SUBDIVISION (CP 10th St. [MP 4.2] - CP Newark [MP 34.9])

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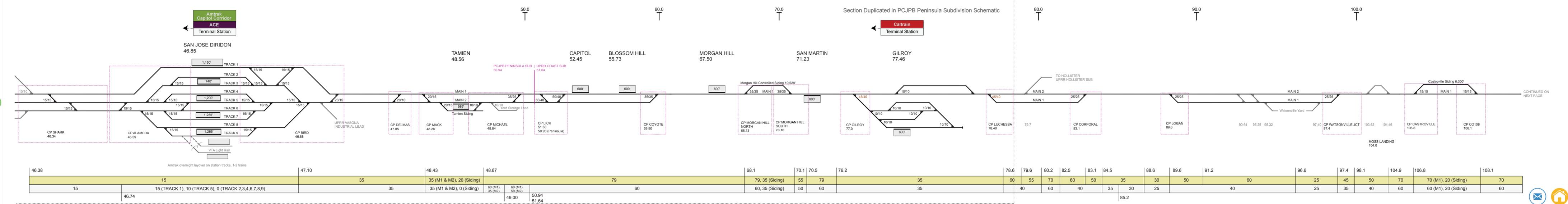
DATE:
April 25, 2016

SHEET:
4





COAST SUB	13.5	13.7		17.1		26.1	26.4		29.2	31.0	31.4		33.88		34.83	35.2	35.8		38.2	38.7	39.4	40.0		43.0	43.8		43.94		45.58	45.66		45.99	46.38
Passenger	15	50		70		60	70		35	15 (M1), 70 (M2)	70		70 (M1), 20 (Siding)		70	65	70		50	70	45	60		50	30		40 (M1), 79 (M2 & M3), 30 (UPRR Coast Siding)		40	35 (M1), 40 (M2 & M3)	15 (M1), 40 (M2 & M3)	15	
Freight	15	40				60			35	10 (M1), 60 (M2)	60		60 (M1), 20 (Siding)		60	55	60		40	60	40	50		25		40, 30 (UPRR Coast Siding)		40 (M1), 25 (M2 & M3)	25	15 (M1), 25 (M2 & M3)	15		



46.38		47.10		48.43		48.67		68.1	70.1	70.5	76.2		78.6	79.6	80.2	82.5	83.1	84.5		88.6	89.6		91.2		96.6	97.4	98.1	104.9	106.8	108.1
15	15 (TRACK 1), 10 (TRACK 5), 0 (TRACK 2,3,4,6,7,8,9)	35	35	35 (M1 & M2), 20 (Siding)	60 (M1), 35 (M2)	60 (M1), 50 (M2)	79	60	55	79	76.2		35	60	55	70	60	50	35	30	25		40	60	25	45	50	70	70 (M1), 20 (Siding)	70
46.74			49.00	50.94	51.64								85.2																	

LEGEND

- Track segment
- Track segment included as reference
- Track segment proposed for removal
- Proposed track segment
- Maximum turnout or crossover speed (60 mph passenger / 40 mph freight)
- Passenger platform with length (feet)
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- Passenger speed (mph)
- Freight speed (mph)
- Approximate mile marker
- Funded project description
- Station hold-out rule in effect
- Control point with official milepost

COAST SUBDIVISION

UPRR COAST SUBDIVISION (CP North Elmhurst [MP 13.5] - CP North San Luis Obispo [MP 248.5])
 PCJPB PENINSULA SUBDIVISION (CP Coast [MP 44.7] - CP Lick [MP 51.63])

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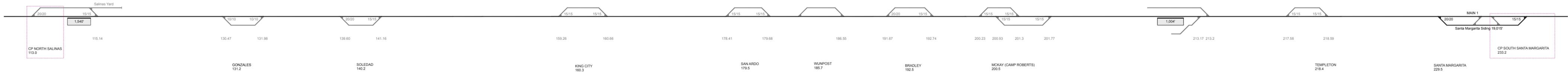
SHEET:
5

120.0 130.0 140.0 150.0 160.0 170.0 180.0 190.0 200.0 210.0 220.0 230.0

SALINAS
114.9

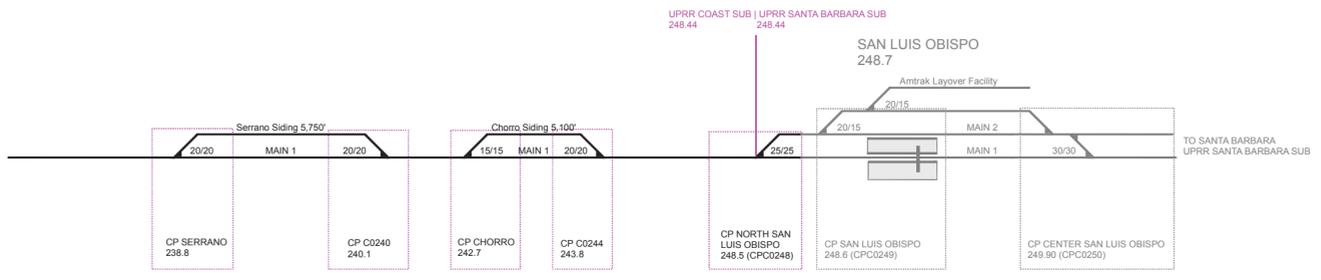
PASO ROBLES
212.9

CONTINUED FROM
PREVIOUS PAGE



	113.0	114.6	115.14	115.6		130.47	131.98	139.6	141.16	144.3	146.0	149.5	150.7	152.2	154.5		159.7	160.6	164.0	165.4		182.1	182.8	184.8	185.0	190.3	190.5	191.0	191.6	192.8		205.6	208.5	208.8		213.7	216.6	223.8	228.0	229.5	231.7	233.2	233.4
70	70 (M1), 20 (Siding)	60 (M1), 20 (Siding)	60	70	70 (M1), 10 (Siding)	70	70 (M1), 20 (Siding)	70	40	45	40	50	65	70	60	70	45	70	50	60	45	55	20	30	55	55 (M1), 20 (Siding)	55	50	45	55	40	50	40	50	40	55	55 (M1), 20 (Siding)	35 (M1), 20 (Siding)	35	30			
60	60 (M1), 20 (Siding)	40 (M1), 20 (Siding)	40	60	60 (M1), 10 (Siding)	60	60 (M1), 20 (Siding)	60	35	40	35	40	55	60	60	40	60	40	60	40	60	40	20	25	40	40 (M1), 20 (Siding)	40	40	45	55	35	40	40	40	35	40	35	40	40 (M1), 20 (Siding)	35 (M1), 20 (Siding)	35	25	

240.0



	236.6	238.8	240.1	242.7	243.8	244.6	246.0	248.1	248.5
30	25	25 (M1), 20 (Siding)	25	25 (M1), 20 (Siding)	25	30	40	25	
25	20	20 (M1), 20 (Siding)	20	20 (M1), 20 (Siding)	20	25	40	25	

LEGEND

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- Approximate mile marker
- Funded project description
- Station hold-out rule in effect
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COAST SUBDIVISION

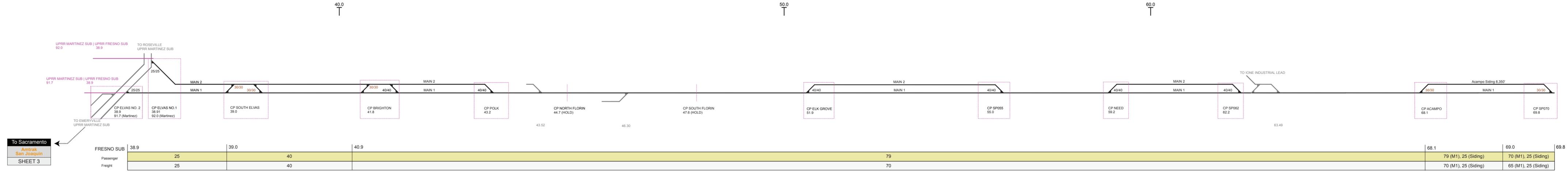
UPRR COAST SUBDIVISION (CP North Elmhurst [MP 13.5] - CP North San Luis Obispo [MP 248.5])
PCJPB PENINSULA SUBDIVISION (CP Coast [MP 44.7] - CP Lick [MP 51.63])

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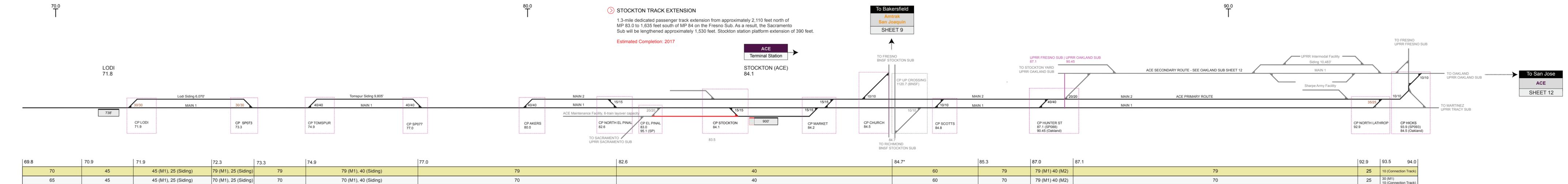
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	38.9	39.0	40.9												68.1	69.0	69.8
Passenger		25	40													79 (M1), 25 (Siding)	70 (M1), 25 (Siding)
Freight		25	40													70 (M1), 25 (Siding)	65 (M1), 25 (Siding)



69.8	70.9	71.9	72.3	73.3	74.9	77.0	82.6	84.7*	85.3	87.0	87.1	92.9	93.5	94.0
70	45	45 (M1), 25 (Siding)	79 (M1), 25 (Siding)	79	79 (M1), 40 (Siding)	79	40	60	79	79 (M1) 40 (M2)	79	25	10 (Connection Track)	
65	45	45 (M1), 25 (Siding)	70 (M1), 25 (Siding)	70	70 (M1), 40 (Siding)	70	40	60	70	79 (M1) 40 (M2)	70	25	30 (M1) 10 (Connection Tracks)	

*Speed through Crossing: 30/30

LEGEND

- Track segment
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- Maximum turnout or crossover speed (60 mph passenger / 40 mph freight)
- Passenger platform with length (feet)
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- Freight speed (mph)
- Approximate mile marker
- Funded project description
- Station hold-out rule in effect
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FRESNO SUBDIVISION
UPRR FRESNO SUBDIVISION (CP Elvas No. 2 [MP 38.9] - CP Hunter St. [MP 87.1])

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DATE:
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SHEET:
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40.0



TRACY SUB	34.5	34.7	34.8	36.0	40.8
Passenger	40 (M2)	35 (M1), 40 (M2)	40		79
Freight	30 (M2)	25 (M1), 30 (M2)	30		60

- Track segment
- Track segment included as reference
- Track segment proposed for removal
- Proposed track segment

- Maximum turnout or crossover speed (60 mph passenger / 40 mph freight)
- Passenger platform with length (feet)

- LEGEND**
- AREMA speed used (passenger/freight mph)
 - Passenger speed (mph)
 - Freight speed (mph)

- Approximate mile marker
- Funded project description
- Station hold-out rule in effect

- Control point with official milepost



TRACY SUBDIVISION
UPRR TRACY SUBDIVISION (CP Ferry [MP 34.5] - CP Port Chicago [MP 40.8])

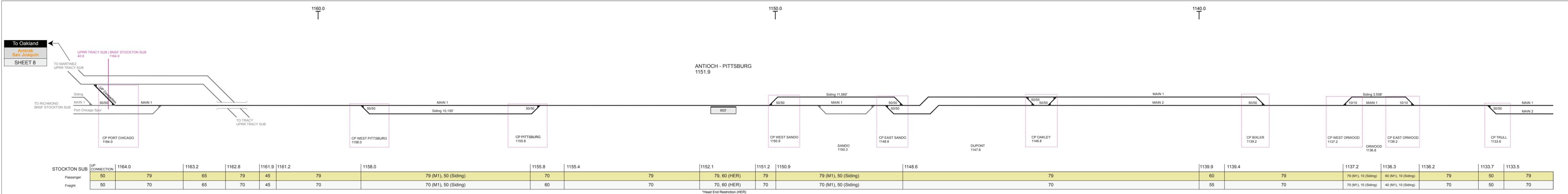
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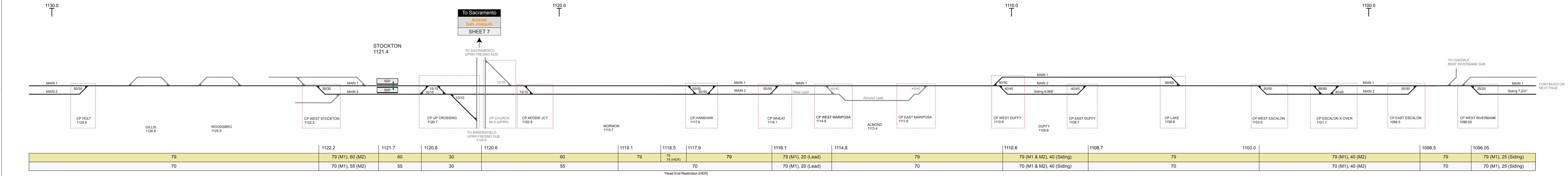


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April 25, 2016

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STOCKTON SUB	UP CONNECTION	1164.0	1163.2	1162.8	1161.9	1161.2	1158.0	1155.8	1155.4	1152.1	1151.2	1150.9	1148.6	1139.9	1139.4	1137.2	1136.3	1136.2	1133.7	1133.5
Passenger	50	79	65	79	45	79	79 (M1), 50 (Siding)	70	79	79, 60 (HER)	79	79 (M1), 50 (Siding)	79	60	79	79 (M1), 10 (Siding)	60 (M1), 10 (Siding)	79	50	79
Freight	50	70	65	70	45	70	70 (M1), 50 (Siding)	60	70	70, 60 (HER)	70	70 (M1), 50 (Siding)	70	55	70	70 (M1), 10 (Siding)	40 (M1), 10 (Siding)	70	50	70



			1122.2	1121.7	1120.8	1120.6	1119.1	1118.5	1117.9	1116.1	1114.8	1110.6	1108.7	1103.0	1098.5	1096.05
			79	79 (M1), 60 (M2)	60	30	60	79	79	79 (M1), 20 (Lead)	79	79 (M1 & M2), 40 (Siding)	79	79	79 (M1), 40 (M2)	79
			70	70 (M1), 55 (M2)	55	30	55	70	70	70 (M1), 20 (Lead)	70	70 (M1 & M2), 40 (Siding)	70	70	70 (M1), 40 (M2)	70 (M1), 25 (Siding)

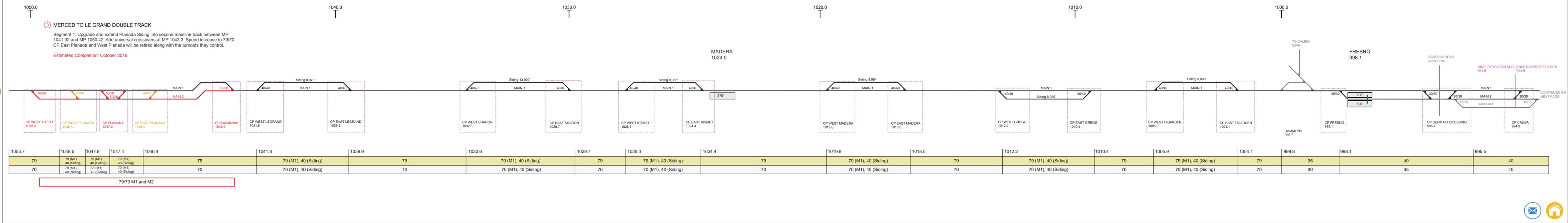
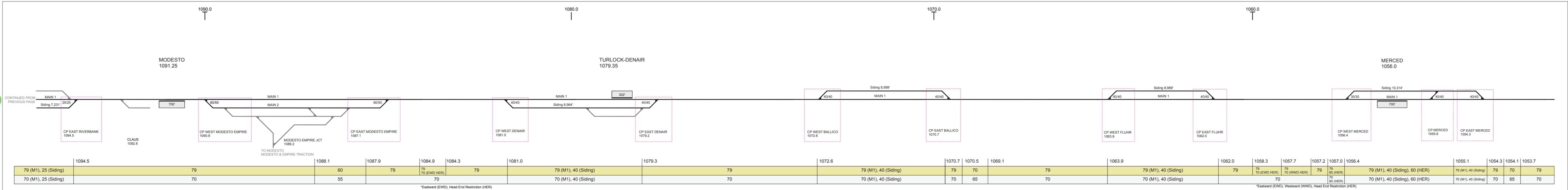
LEGEND

- Track segment
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- Maximum turnout or crossover speed (60 mph passenger / 40 mph freight)
- Passenger platform with length (feet)
- AREMA speed used (passenger/freight mph)
- Passenger speed (mph)
- Freight speed (mph)
- Approximate mile marker
- Funded project description
- Station hold-out rule in effect
- Control point with official milepost

STOCKTON - BAKERSFIELD - MOJAVE SUBDIVISIONS
 BNSF STOCKTON SUBDIVISION (CP Port Chicago [MP 1164.0] - CP Calwa [MP 994.9])
 BNSF BAKERSFIELD SUBDIVISION (CP Calwa [MP 994.9] - CP Bakersfield [887.7])
 BNSF MOJAVE SUBDIVISION (CP Bakersfield [887.7] - CP Kern Jct. [885.2])

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DATE: April 25, 2016
SHEET: 9



LEGEND

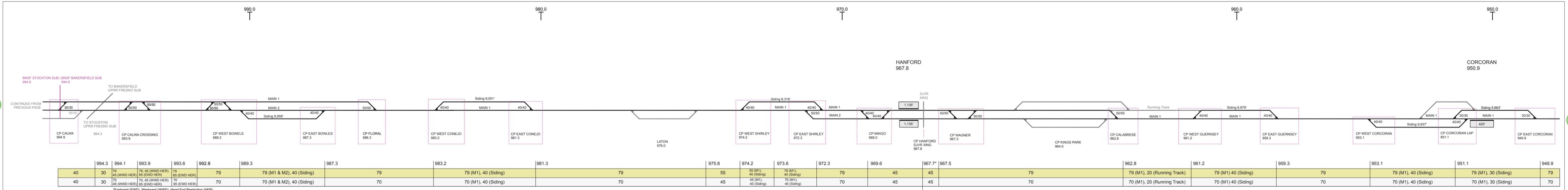
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STOCKTON - BAKERSFIELD - MOJAVE SUBDIVISIONS
 BNSF STOCKTON SUBDIVISION (CP Port Chicago [MP 1164.0] - CP Calwa [MP 994.9])
 BNSF BAKERSFIELD SUBDIVISION (CP Calwa [MP 994.9] - CP Bakersfield [887.7])
 BNSF MOJAVE SUBDIVISION (CP Bakersfield [887.7] - CP Kern Jct. [885.2])

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DATE:
April 25, 2016

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994.3	994.1	993.9	993.6	992.8	989.3	987.3	983.2	981.3	975.8	974.2	973.6	972.3	969.6	967.7	967.5	962.8	961.2	959.3	953.1	951.1	949.9
40	30	79 45 (WWD HER)	79 45 (WWD HER)	79	79 (M1 & M2), 40 (Siding)	79	79 (M1), 40 (Siding)	79	55	55 (M1) 40 (Siding)	79 (M1) 40 (Siding)	79	45	45	79	79 (M1), 20 (Running Track)	79 (M1) 40 (Siding)	79	79 (M1), 40 (Siding)	79 (M1), 30 (Siding)	79
40	30	70 45 (WWD HER)	70 45 (WWD HER)	70	70 (M1 & M2), 40 (Siding)	70	70 (M1), 40 (Siding)	70	45	45 (M1) 40 (Siding)	70 (M1) 40 (Siding)	70	45	45	70	70 (M1), 20 (Running Track)	70 (M1) 40 (Siding)	70	70 (M1), 40 (Siding)	70 (M1), 30 (Siding)	70



942.8	940.9	933.2	931.4	925.6	923.7	920.1	918.2	912.4	911.0	905.0	902.7	898.7	896.8	893.4	892.9	890.1	889.8	889.5	889.3	888.0	885.2
79	79 (M1), 40 (Siding)	79	79 (M1), 40 (Siding)	79 (M1), 40 (Siding)	79	70	79	60	79	60 (M1) 40 (M2)	79 EWD, 55 WWD (M1) 40 (M2)	20 (M1 & M2), 20 (AMTRAK LEAD)	885.2								
70	70 (M1), 40 (Siding)	70	70 (M1), 40 (Siding)	70 (M1), 40 (Siding)	70	65	70	55 (M1) 50 (M2)	70	55 (M1) 30 (M2)	70 EWD, 55 WWD (M1) 40 (M2)	20 (M1 & M2), 20 (AMTRAK LEAD)	885.2								

LEGEND

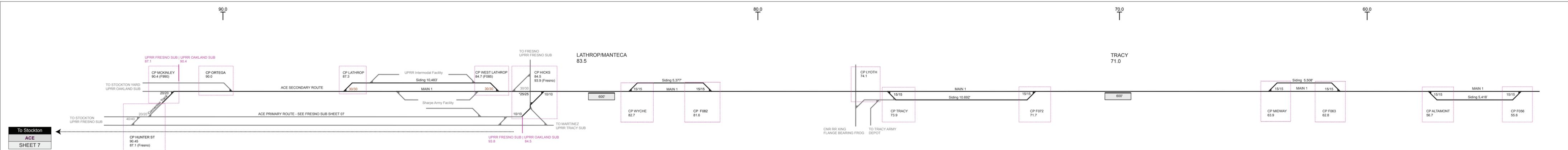
- Track segment
- Track segment included as reference
- Track segment proposed for removal
- Proposed track segment
- Maximum turnout or crossover speed (60 mph passenger / 40 mph freight)
- Passenger platform with length (feet)
- AREMA speed used (passenger/freight mph)
- Passenger speed (mph)
- Freight speed (mph)
- Approximate mile marker
- Funded project description
- Station hold-out rule in effect
- Control point with official milepost

STOCKTON - BAKERSFIELD - MOJAVE SUBDIVISIONS
 BNSF STOCKTON SUBDIVISION (CP Port Chicago [MP 1164.0] - CP Calwa [MP 994.9])
 BNSF BAKERSFIELD SUBDIVISION (CP Calwa [MP 994.9] - CP Bakersfield [887.7])
 BNSF MOJAVE SUBDIVISION (CP Bakersfield [887.7] - CP Kern Jct. [885.2])

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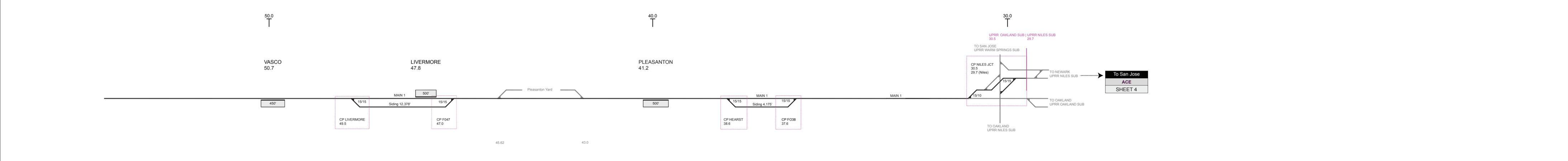
DATE:
April 25, 2016

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OAKLAND SUB	90.45	90.4	90.0		87.3		84.7	84.5*		82.7	82.0	81.6	80.2	79.9		73.9		72.2	71.8	71.7		67.0	66.1	65.6	63.9	63.4	62.8	62.1	61.8	60.5	59.5	58.2	57.4	56.7	56.1	55.6	55.1	
Passenger	20	20		79		79 (M1), 30 (Siding)	79	79		60 (M1), 20 (Siding)	79 (M1), 20 (Siding)	79	70	79.9		79		79 (M1), 30 (Siding)	70 (M1), 30 (Siding)	79 (M1), 30 (Siding)		60	40	45	40	40 (M1), 20 (Siding)	60 (M1), 20 (Siding)	60	45	60	45	40	35	40	40 (M1), 20 (Siding)	35 (M1), 20 (Siding)	35	25
Freight	20	20		60		60 (M1), 30 (Siding)	60	60		60 (M1), 20 (Siding)			60	60		60 (M1), 30 (Siding)		60 (M1), 30 (Siding)				35	40	35	35	40 (M1), 20 (Siding)	40	35	40	35		30	30 (M1), 20 (Siding)	30	20			

*Connection Track *Through speed at crossing: 25/25



	54.9	53.3	52.9	52.3	51.5		49.5	47.9	47.0		42.9	41.9	41.6	40.3	39.9	38.8	38.6		37.6		33.0	32.0	30.6	30.5
Passenger	35	40	35	55		60	60 (M1), 20 (Siding)	79 (M1), 20 (Siding)	79		70	45	60	45	60	40	40 (M1), 20 (Siding)		40		25	40	15	
Freight	30					50	50 (M1), 20 (Siding)	60 (M1), 20 (Siding)	60		40	35	35 (M1), 20 (Siding)		35		35		35		25	35	15	

LEGEND

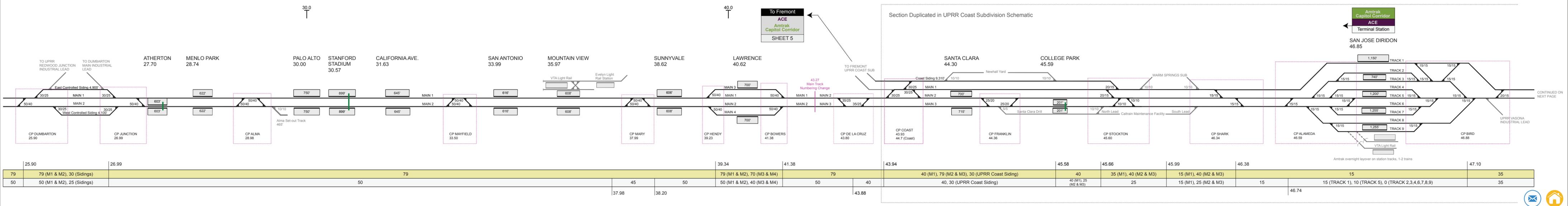
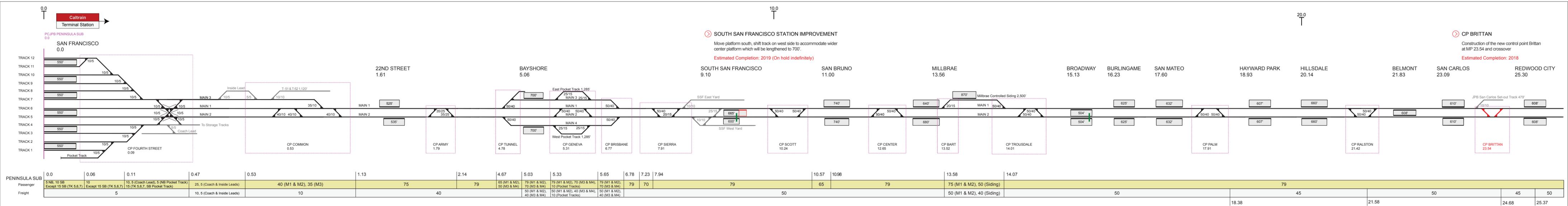
- Track segment
- Track segment included as reference
- Track segment proposed for removal
- Proposed track segment
- Maximum turnout or crossover speed (60 mph passenger / 40 mph freight)
- Passenger platform with length (feet)
- AREMA speed used (passenger/freight mph)
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- Station hold-out rule in effect
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OAKLAND SUBDIVISION
UPRR OAKLAND SUBDIVISION (CP Hunter Street [MP 90.45] - CP Niles Jct [MP 30.6])
*Note: CP Hunter Street is on UPRR Fresno Subdivision

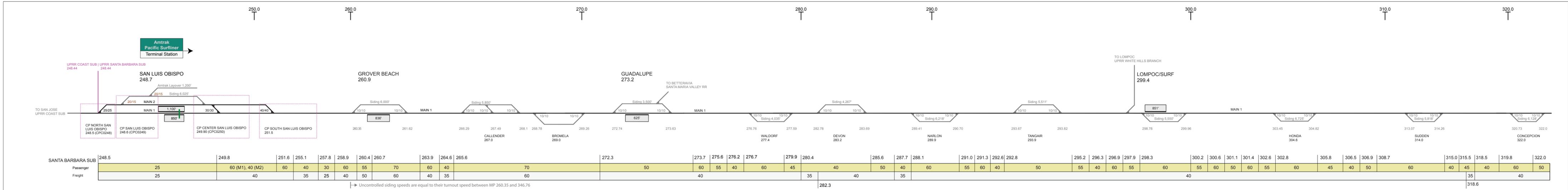
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DATE:
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<ul style="list-style-type: none"> Track segment Track segment included as reference Track segment proposed for removal Proposed track segment 	<ul style="list-style-type: none"> Maximum turnout or crossover speed (60 mph passenger / 40 mph freight) Passenger platform with length (feet) 	<ul style="list-style-type: none"> AREMA speed used (passenger/freight mph) Passenger speed (mph) Freight speed (mph) Approximate mile marker Funded project description Station hold-out rule in effect 	<ul style="list-style-type: none"> Control point with official milepost 		<p>PENINSULA SUBDIVISION</p> <p>PCJPB PENINSULA SUBDIVISION (San Francisco Station [0.0]- CP Lick [MP 50.93]) UPRR COAST SUBDIVISION (CP Lick [MP 51.63] - CP Luchessa [MP 78.40])</p>	<p>DISCLAIMER</p> <p>Information included in this document is the intellectual property of the California Department of Transportation and cannot be modified without the express permission of the Department. This drawing is conceptual only and for the convenience of reference. Drawing is not to scale. It should not be relied upon as representation express or implied, of the final length, location or dimensions of any rail subdivision.</p>	<p>DATE: Aug. 12, 2016</p> <p>SHEET: 13</p>
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SANTA BARBARA SUB	248.5	249.8	251.6	255.1	257.8	258.9	260.4	260.7	263.9	264.6	265.6	272.3	273.7	275.6	276.2	276.7	279.9	280.4	285.6	287.7	288.1	291.0	291.3	292.6	292.8	295.2	296.3	296.9	297.9	298.3	300.2	300.6	301.1	301.4	302.6	302.8	305.8	306.5	306.9	308.7	315.0	315.5	318.5	319.8	322.0
Passenger	25	60 (M1), 40 (M2)	60	40	30	60	55	70	60	40	70	50	60	55	40	60	45	40	50	40	60	55	60	40	50	55	40	60	55	60	55	60	45	40	50	60	45	40	60	40	45	40	60	50	
Freight	25	40	35	25	40	50	60	40	35	40	35	40	35	40	35	40	35	40	35	40	35	40	35	40	35	40	35	40	35	40	35	40	35	40	35	40	35	40	35	40	35	40	35	40	

Uncontrolled siding speeds are equal to their turnout speed between MP 260.35 and 346.76



322.4	325.8	326.4	328.3	328.6	329.7	330.0	331.8	332.8	335.1	335.4	338.6	341.4	342.7	344.8	345.5	353.5	354.2	354.5	355.8	357.6	363.8	365.0	366.7	367.1	368.6	369.6	371.9	378.6	380.6	382.1	383.3	383.8	384.4	385.3	386.3	387.5	387.9	393.3	393.6	394.8	394.9	396.2	397.2	398.8	399.1	401.9	402.3	404.0	404.7	405.6	411.5	412.0	414.8	418.1	420.6	423.1
60	55	60	55	60	55	60	40	75	55	79	65	50	45	40	45	75	70	55	79	79 (M1), 40 (Siding)	79	60	40 (M1), 60 (M2)	40	45	60	50	55	50	55	45	40	60	60 (M1), 40 (Siding)	60	40	60	40	40	50	50	55	65	55	79	45 (M1), 30 (Siding)	60 (M1), 30 (Siding)	79	45 (M1), 30 (Siding)	60	50	55	79 (M1), 40 (Siding)	70	75	70

Uncontrolled siding speeds are equal to their turnout speed between MP 260.35 and 346.76

LEGEND

- Track segment
- Track segment included as reference
- Track segment proposed for removal
- Proposed track segment
- Maximum turnout or crossover speed (60 mph passenger / 40 mph freight)
- Passenger platform with length (feet)
- AREMA speed used (passenger/freight mph)
- Passenger speed (mph)
- Freight speed (mph)
- Approximate mile marker
- Funded project description
- Station hold-out rule in effect
- Control point with official milepost

SANTA BARBARA - MONTALVO SUBDIVISIONS

UPRR SANTA BARBARA SUBDIVISION (CP North San Luis Obispo [MP 248.5] - CP Las Posas [MP 423.1])

SCRRA MONTALVO SUBDIVISION (East Line: CP South Montalvo [403.1] - CP Wye [403.5] & West Line: CP North Montalvo [402.8] - Bristol [404.5])

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DATE:
April 25, 2016

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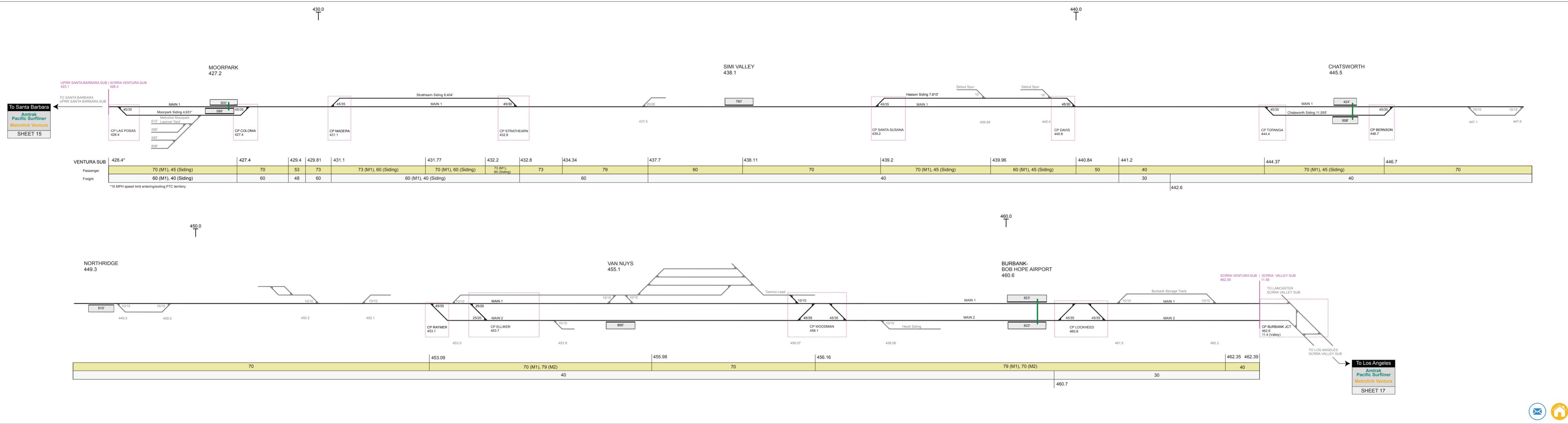
SANTA BARBARA - MONTALVO SUBDIVISIONS

UPRR SANTA BARBARA SUBDIVISION (CP North San Luis Obispo [MP 248.5] - CP Las Posas [MP 423.1])

SCRRA MONTALVO SUBDIVISION (East Line: CP South Montalvo [403.1] - CP Wye [403.5] & West Line: CP North Montalvo [402.8] - Bristol [404.5])

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VENTURA SUB	426.4*	427.4	429.4	429.81	431.1	431.77	432.2	432.8	434.34	437.7	438.11	439.2	439.96	440.84	441.2	444.37	446.7
Passenger	70 (M1), 45 (Siding)	70	53	73	73 (M1), 60 (Siding)	70 (M1), 60 (Siding)	73 (M1), 60 (Siding)	73	79	60	70	70 (M1), 45 (Siding)	60 (M1), 45 (Siding)	50	40	70 (M1), 45 (Siding)	70
Freight	60 (M1), 40 (Siding)	60	48	60	60 (M1), 40 (Siding)	60 (M1), 40 (Siding)	60	60	60	60	60	40	40	30	40	40	40
*15 MPH speed limit entering/exiting PTC territory																	
442.6																	

	449.3	450.0	450.2	452.1	453.5	453.9	455.98	456.16	461.5	462.2	462.35	462.39
	70	70	70	70	70 (M1), 79 (M2)	70	70	79 (M1), 70 (M2)	70	40	40	40
460.7												

LEGEND

- Track segment
- Track segment included as reference
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- Proposed track segment
- Maximum turnout or crossover speed (60 mph passenger / 40 mph freight)
- Passenger platform with length (feet)
- AREMA speed used (passenger/freight mph)
- Passenger speed (mph)
- Freight speed (mph)
- Approximate mile marker
- Funded project description
- Station hold-out rule in effect
- Control point with official milepost

VENTURA SUBDIVISION
 SCRRA VENTURA SUBDIVISION (CP Las Posas [426.4] - CP Burbank Jct. [462.6])

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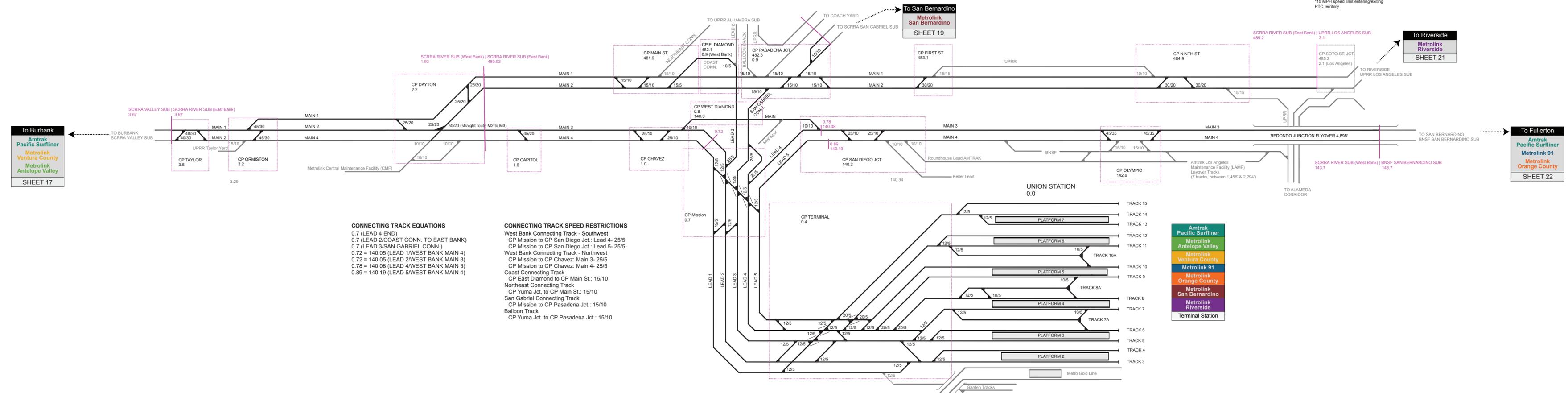
SHEET:
16

To Santa Barbara
 Amtrak
 Pacific Surfliner
 Metrolink Ventura
 SHEET 15

To Los Angeles
 Amtrak
 Pacific Surfliner
 Metrolink Ventura
 SHEET 17

RIVER SUB (EAST BANK)	3.67	3.3	2.25	1.93 480.93	481.86	482.37	483.16	484.75	485.21
Passenger	50	50	30 (M1) 25 (M2)	25	15 (M1 & M2), 15 (COAST CONN.)	27	70	30	
Freight	40	25	20	20	10 (M1 & M2), 10 (COAST CONN.)	20	30	20	

*15 MPH speed limit entering/exiting PTC territory



CONNECTING TRACK EQUATIONS
 0.7 (LEAD 4 END)
 0.7 (LEAD 2/COAST CONN. TO EAST BANK)
 0.7 (LEAD 3/SAN GABRIEL CONN.)
 0.72 = 140.05 (LEAD 1/WEST BANK MAIN 4)
 0.72 = 140.05 (LEAD 2/WEST BANK MAIN 3)
 0.78 = 140.08 (LEAD 4/WEST BANK MAIN 3)
 0.89 = 140.19 (LEAD 5/WEST BANK MAIN 4)

CONNECTING TRACK SPEED RESTRICTIONS
 West Bank Connecting Track - Southwest
 CP Mission to CP San Diego Jct.: Lead 4- 25/5
 CP Mission to CP San Diego Jct.: Lead 5- 25/5
 West Bank Connecting Track - Northwest
 CP Mission to CP Chavez: Main 3- 25/5
 CP Mission to CP Chavez: Main 4- 25/5
 Coast Connecting Track
 CP East Diamond to CP Main St.: 15/10
 Northeast Connecting Track
 CP Yuma Jct. to CP Main St.: 15/10
 San Gabriel Connecting Track
 CP Mission to CP Pasadena Jct.: 15/10
 Balloon Track
 CP Yuma Jct. to CP Pasadena Jct.: 15/10

RIVER SUB (WEST BANK)	2.08	1.37	0.86	0.72 140.07	0.89 140.19	140.8	141.14	142.84	143.71
Passenger	50	30 (M3), 25 (M4)	15 (MAIN)	15 (MAIN)	35	45	79	44	
Freight	15	20	20 (M3), 5 (M4)	10 (MAIN)	10 (MAIN)	25	40	20	

CONNECTING TRACK SPEED RESTRICTIONS	0.91	0.72 140.07	0.4	0.0
Passenger		25 (LEADS 1-5)	20 (TRACKS 3-15) , 5 (GARDEN TRACKS)	
Freight			5	

*15 MPH speed limit entering/exiting PTC territory

LEGEND

- Track segment
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- Freight speed (mph)
- Approximate mile marker
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RIVER SUBDIVISION
 SCRRR RIVER SUBDIVISION (LAUS [0.0]- CP E. Diamond [MP 0.9])
 West Bank Line (CP Dayton [2.2]) - Jct. BNSF [143.7])
 East Bank Line (CP Taylor [3.5] - Jct. UPRR [485.2])

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DATE:
April 25, 2016

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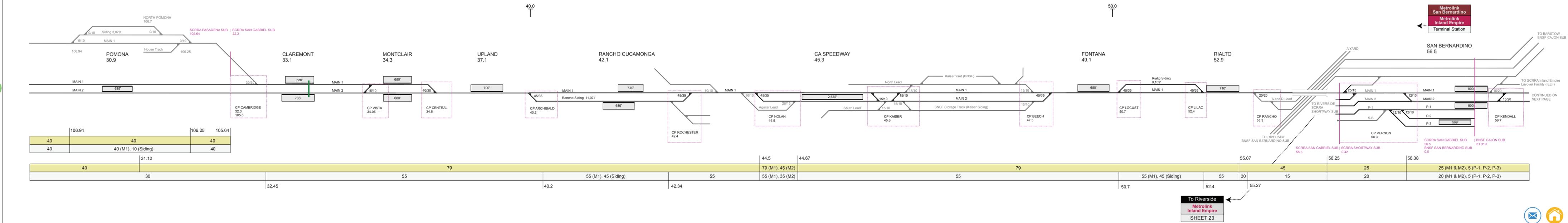
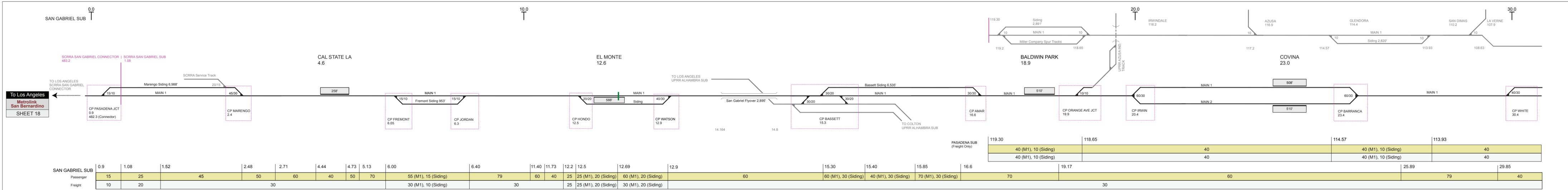
To Burbank
 Amtrak Pacific Surfliner
 Metrolink Ventura County
 Metrolink Antelope Valley
 SHEET 17

To San Bernardino
 Metrolink San Bernardino
 SHEET 19

To Riverside
 Metrolink Riverside
 SHEET 21

To Fullerton
 Amtrak Pacific Surfliner
 Metrolink 91
 Metrolink Orange County
 SHEET 22





LEGEND

	Track segment		Maximum turnout or crossover speed (60 mph passenger / 40 mph freight)		AREMA speed used (passenger/freight mph)		Approximate mile marker		Control point with official milepost
	Track segment included as reference		Passenger platform with length (feet)		Passenger speed (mph)		Funded project description		Station hold-out rule in effect
	Track segment proposed for removal				Freight speed (mph)				
	Proposed track segment								



SAN GABRIEL - PASADENA SUBDIVISIONS
 SCRRA SAN GABRIEL SUBDIVISION (CP Pasadena Jct [MP 0.9] - San Bernardino Transit Center [MP 57.6])
 SCRRA PASADENA SUB (Freight Only) (CP Cambridge [MP 105.6] - Irwindale [MP 119.35])

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DATE:
July 26, 2016

SHEET:
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**SAN BERNARDINO
TRANSIT CENTER
57.6**

SCRRA SAN GABRIEL SUB | BNSF REDLANDS BRANCH
57.66 57.66

CONTINUED FROM
PREVIOUS PAGE



	57.4		57.66
25	25 (M1 & M2), 10 (TC-1 & TC-2)		
20	20 (M1 & M2), 10 (TC-1 & TC-2)		

LEGEND

	Track segment		Maximum turnout or crossover speed (60 mph passenger / 40 mph freight)		AREMA speed used (passenger/freight mph)		Approximate mile marker		Control point with official milepost
	Track segment included as reference		Passenger platform with length (feet)		Passenger speed (mph)		Funded project description		
	Track segment proposed for removal				Freight speed (mph)		Station hold-out rule in effect		
	Proposed track segment								



SAN GABRIEL - PASADENA SUBDIVISIONS
 SCRRA SAN GABRIEL SUBDIVISION (CP Pasadena Jct [MP 0.9] - San Bernardino Transit Center [MP 57.6])
 SCRRA PASADENA SUB (Freight Only) (CP Cambridge [MP 105.6] - Irwindale [MP 119.35])

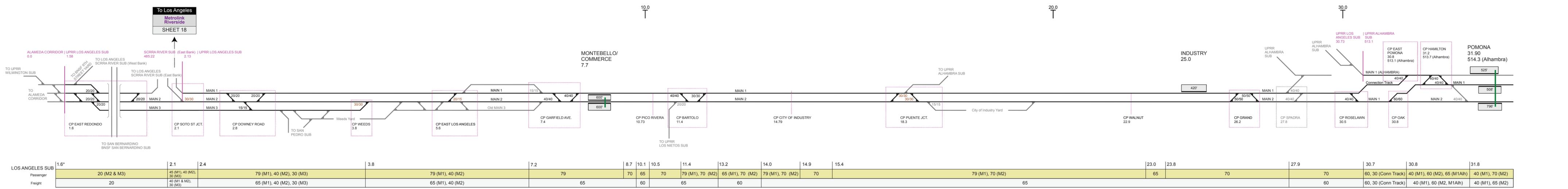
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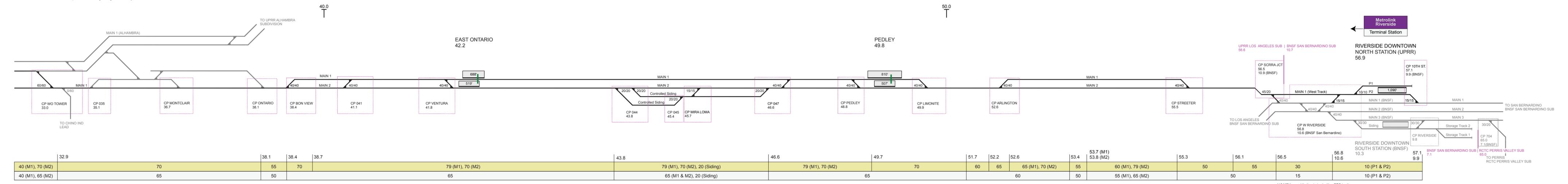


To Los Angeles
Metrolink
Riverside
SHEET 18



LOS ANGELES SUB	1.6*	2.1	2.4	3.8	7.2	8.7	10.1	10.5	11.4	13.2	14.0	14.9	15.4	23.0	23.8	27.9	30.7	30.8	31.8
Passenger	20 (M2 & M3)	45 (M1), 40 (M2), 30 (M3)	79 (M1), 40 (M2), 30 (M3)	79 (M1), 40 (M2)	79	70	65	70	79 (M1), 70 (M2)	65 (M1), 70 (M2)	79 (M1), 70 (M2)	70	79 (M1), 70 (M2)	65	70	70	60, 30 (Conn Track)	40 (M1), 60 (M2), 65 (M1A)h	40 (M1), 70 (M2)
Freight	20	40 (M1 & M2), 30 (M3)	65 (M1), 40 (M2), 30 (M3)	65 (M1), 40 (M2)	65	60	65	60	65	60	79 (M1), 70 (M2)	65	65	65	70	60, 30 (Conn Track)	40 (M1), 60 (M2), M1A)h	40 (M1), 65 (M2)	

*15 MPH speed limit entering/exiting PTC territory



40 (M1), 70 (M2)	32.9	70	38.1	38.4	38.7	43.8	46.6	49.7	51.7	52.2	52.6	53.4	53.7 (M1) 53.8 (M2)	55.3	56.1	56.5	56.8	56.8	57.1
40 (M1), 65 (M2)	65	65	50	70	79 (M1), 70 (M2)	65	79 (M1), 70 (M2), 20 (Siding)	79 (M1), 70 (M2)	65	70	60	65	65 (M1), 70 (M2)	55	50	55	30	10 (P1 & P2)	10 (P1 & P2)
					65 (M1 & M2), 20 (Siding)								55 (M1), 65 (M2)			15			

*15 MPH speed limit entering/exiting PTC territory

LEGEND

- Track segment
- Track segment included as reference
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- Approximate mile marker
- Funded project description
- Station hold-out rule in effect
- Control point with official milepost



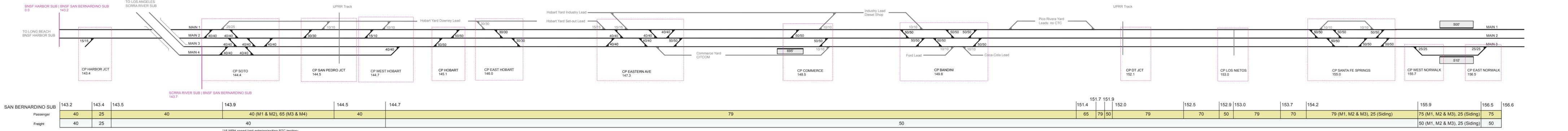
LOS ANGELES SUBDIVISION
 UPRR LOS ANGELES SUBDIVISION (CP East Redondo [MP 1.6] - CP 10th St. [MP 57.1])
 UPRR ALHAMBRA SUBDIVISION (CP East Pomona [MP 513.1] - Pomona Station [MP 514.3])

DISCLAIMER

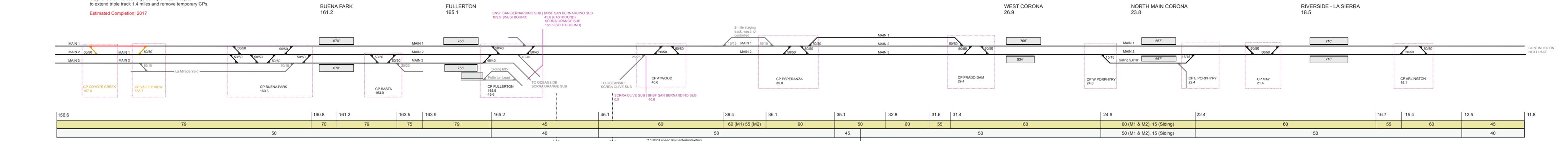
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To Los Angeles
 Amtrak
 Pacific Surfliner
 Metrolink 91
 Metrolink
 Orange County
 SHEET 18



LOS ANGELES TRIPLE TRACK
 Segment 8 of the Los Angeles Triple Track Project to extend triple track 1.4 miles and remove temporary CPs.
 Estimated Completion: 2017



To Oceanside
 Amtrak
 Pacific Surfliner
 Metrolink
 Orange County
 SHEET 25

LEGEND

- Track segment
- Track segment included as reference
- Track segment proposed for removal
- Proposed track segment
- Maximum turnout or crossover speed (60 mph passenger / 40 mph freight)
- Passenger platform with length (feet)
- AREMA speed used (passenger/freight mph)
- Passenger speed (mph)
- Freight speed (mph)
- Approximate mile marker
- Funded project description
- Station hold-out rule in effect
- Control point with official milepost

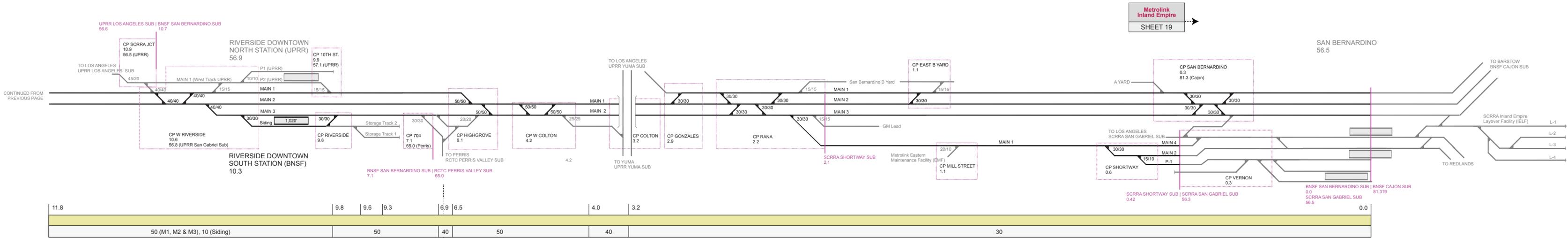
SAN BERNARDINO - SHORTWAY SUBDIVISIONS
 BNSF SAN BERNARDINO SUBDIVISION (CP Soto [MP 144.4] - CP San Bernardino [MP 0.3])
 SCRRA SHORTWAY SUBDIVISION (CP Rana [MP 2.2] - CP Vernon [MP 0.3])

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SAN BERNARDINO SUB 10.0

0.0



To Perris
Metrolink 91
 SHEET 24

SHORTWAY SUB	2.1*			
Passenger		0.7	0.6	0.42
Freight		30	25 (M2 & M4), 10 (P-1)	20 (M2 & M4), 10 (P-1)

*15 MPH speed limit entering/exiting PTC territory

LEGEND

- Track segment
- Track segment included as reference
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- Proposed track segment
- Maximum turnout or crossover speed (60 mph passenger / 40 mph freight)
- Passenger platform with length (feet)
- AREMA speed used (passenger/freight mph)
- Passenger speed (mph)
- Freight speed (mph)
- Approximate mile marker
- Funded project description
- Station hold-out rule in effect
- Control point with official milepost

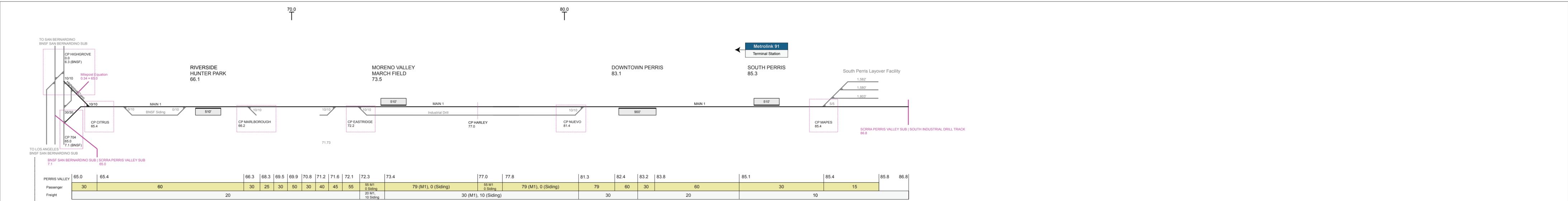
SAN BERNARDINO - SHORTWAY SUBDIVISIONS
 BNSF SAN BERNARDINO SUBDIVISION (CP Soto [MP 144.4] - CP San Bernardino [MP 0.3])
 SCRR SHORTWAY SUBDIVISION (CP Rana [MP 2.2] - CP Vernon [MP 0.3])

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	65.0	65.4	66.3	68.3	69.5	69.9	70.8	71.2	71.6	72.1	72.3	73.4	77.0	77.8	81.3	82.4	83.2	83.8	85.1	85.4	85.8	86.8
Passenger	30	60	30	25	30	50	30	40	45	55	55 M1 0 Siding	79 (M1), 0 (Siding)	55 M1 0 Siding	79 (M1), 0 (Siding)	79	60	30	60	30	15		
Freight		20									20 M1, 10 Siding	30 (M1), 10 (Siding)			30		20		10			

To Riverside
Metrolink 91
SHEET 23

LEGEND	
	Track segment
	Track segment included as reference
	Track segment proposed for removal
	Proposed track segment
	Maximum turnout or crossover speed (60 mph passenger / 40 mph freight)
	Passenger platform with length (feet)
	AREMA speed used (passenger/freight mph)
	Passenger speed (mph)
	Freight speed (mph)
	Approximate mile marker
	Funded project description
	Station hold-out rule in effect
	Control point with official milepost



PERRIS VALLEY SUBDIVISION
METROLINK PERRIS VALLEY SUBDIVISION (CP 704 [MP 65.0] - CP Mapes [MP 85.4])

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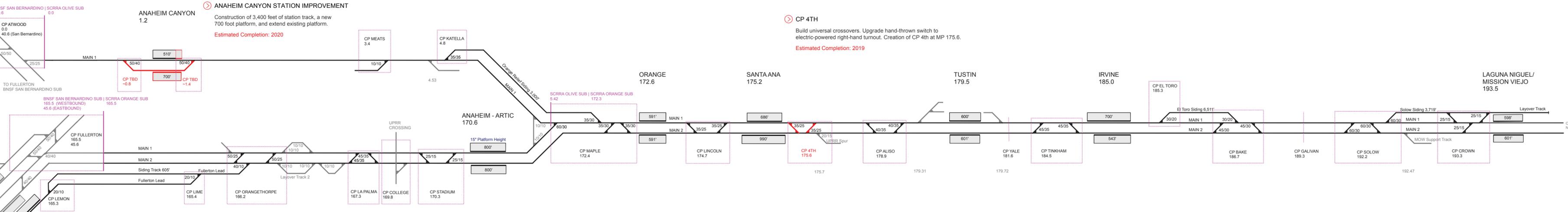


To San Bernardino
Metrolink 91
Metrolink Inland Empire
SHEET 22

To Los Angeles
Amtrak Pacific Surfliner
Metrolink 91
Metrolink Orange County
SHEET 22



OLIVE SUB	0.0	1.81	4.56	4.80	5.42
Passenger	40	70	60	60 (M1), 35 (Siding)	
Freight	25	40		40 (M1), 35 (Siding)	



ORANGE & SAN DIEGO SUBS	165.55	165.93	169.2	170.44	171.99	172.29	173.19	173.79	174.68	176.12	177.49	185.37	186.61	192.2	193.4
Passenger	55	79	70	79	35	60	40	79	50	79	90	90 (M1 & M2), 30 (Siding)	90	90 (M1 & M2), 60 (Siding)	90
Freight	40		50			30	40	55	40		55	55 (M1 & M2), 20 (Siding)	55	55 (M1 & M2), 30 (Siding)	55

FULLERTON LEAD	165.1	165.5	166.1
Passenger	20	40	
Freight	10		

LEGEND

- Track segment
- Track segment included as reference
- Track segment proposed for removal
- Proposed track segment
- Maximum turnout or crossover speed (60 mph passenger / 40 mph freight)
- Passenger platform with length (feet)
- AREMA speed used (passenger/freight mph)
- Passenger speed (mph)
- Freight speed (mph)
- Approximate mile marker
- Funded project description
- Station hold-out rule in effect
- Control point with official milepost



ORANGE - OLIVE - SAN DIEGO SUBDIVISIONS

SCRRA ORANGE SUBDIVISION (CP Fullerton [MP 165.5] - CP Songs [MP 209.2])
 SCRRA OLIVE SUBDIVISION (CP Atwood [MP 0.0] - CP Maple [MP 5.42])
 NCTD SAN DIEGO SUBDIVISION (CP Songs [MP 209.2] - CP Broadway [MP 267.6])

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LAGUNA NIGUEL - SAN JUAN PASSING SIDING

Construction of an additional 1.8 miles of passing siding. CP Avery will be retired and CP Camino and CP Trabuco will be added.

Estimated Completion: 2019

OCEANSIDE STATION PASS-THROUGH TRACK

Construction of a new 1,000-foot boarding platform south of the existing rail platforms and a siding will be added from the station to Wisconsin Avenue.

Estimated Completion: 2017

THE BATIQUITOS LAGOON DOUBLE TRACK

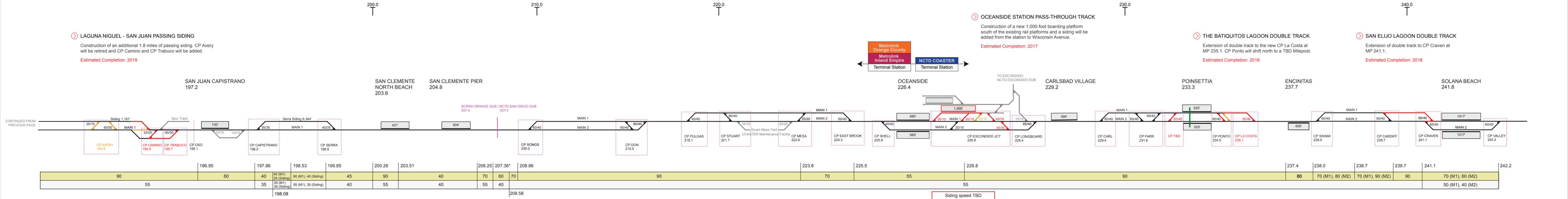
Extension of double track to the new CP La Costa at MP 235.1. CP Ponto will shift north to a TBD Milepost.

Estimated Completion: 2019

SAN ELIJO LAGOON DOUBLE TRACK

Extension of double track to CP Craven at MP 241.1.

Estimated Completion: 2018



ELVIRA TO MORENA DOUBLE TRACK

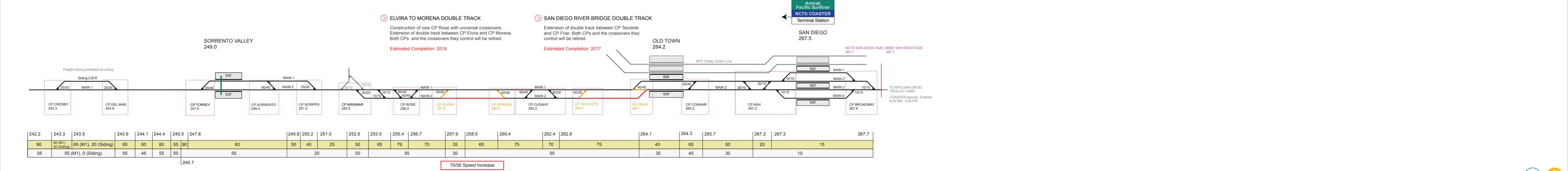
Construction of new CP Rose with universal crossovers. Extension of double track between CP Elvira and CP Morena. Both CPs and the crossovers they control will be retired.

Estimated Completion: 2018

SAN DIEGO RIVER BRIDGE DOUBLE TRACK

Extension of double track between CP Tecolote and CP Friar. Both CPs and the crossovers they control will be retired.

Estimated Completion: 2017



70/50 Speed Increase

LEGEND

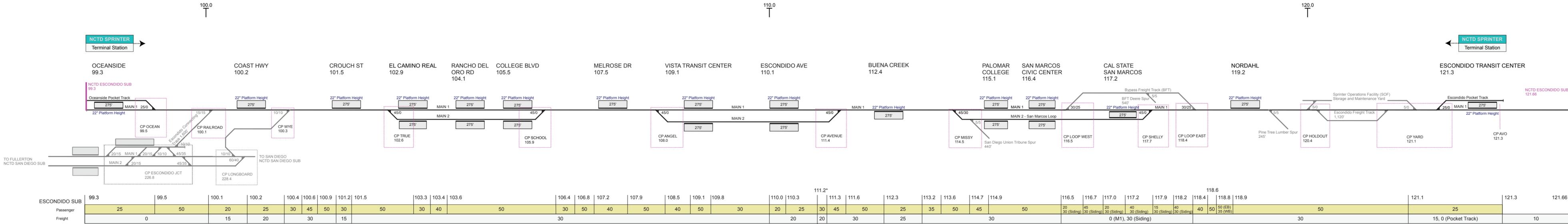
	Track segment		Maximum turnout or crossover speed (60 mph passenger / 40 mph freight)		AREMA speed used (passenger/freight mph)		Approximate mile marker		Control point with official milepost
	Track segment included as reference		Passenger platform with length (feet)		Passenger speed (mph)		Funded project description		
	Track segment proposed for removal				Freight speed (mph)		Station hold-out rule in effect		
	Proposed track segment								



ORANGE - OLIVE - SAN DIEGO SUBDIVISIONS
 SCRRA ORANGE SUBDIVISION (CP Fullerton [MP 165.5] - CP Songs [MP 209.2])
 SCRRA OLIVE SUBDIVISION (CP Atwood [MP 0.0] - CP Maple [MP 5.42])
 NCTD SAN DIEGO SUBDIVISION (CP Songs [MP 209.2] - CP Broadway [MP 267.6])

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ESCONDIDO SUB	99.3	99.5	100.1	100.2	100.4	100.6	100.9	101.2	101.5	103.3	103.4	103.6	106.4	106.8	107.2	107.9	108.5	109.1	109.8	110.0	110.3	111.2*	111.3	111.6	112.3	113.2	113.6	114.7	114.9	116.5	116.7	117.0	117.2	117.9	118.2	118.4	118.6	118.8	118.9	121.1	121.3	121.66			
Passenger	25	50	20	25	30	45	50	30	50	30	40	50	30	50	40	50	40	50	30	20	25	30	45	50	25	35	50	45	50	20	45	20	40	15	40	30	40	50	50 (EB) 35 (WB)	50	25	10			
Freight	0		15	20	30		15						30								20	20	30																		30		15, 0 (Pocket Track)		10

*25 mph through grade crossing

LEGEND

- Track segment
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- Proposed track segment
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- AREMA speed used (passenger/freight mph)
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ESCONDIDO SUBDIVISION
 NCTD ESCONDIDO SUBDIVISION (Oceanside Station [MP 99.3] - CP Avo [MP 121.3])

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