

Appendix M

Transportation Project Evaluation Criteria and Rankings

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Introduction

An extensive effort to update the transportation project evaluation criteria was undertaken during the development of San Diego Forward: The 2015 Regional Plan (2015 Regional Plan). The process, which included a comprehensive review of the 2050 Regional Transportation Plan criteria; efforts to streamline the criteria, incorporate new goals and policy objectives, input from the public; and a peer review panel is documented in [Appendix M of the 2015 Regional Plan](#). The project rankings from the 2015 Regional Plan were carried forward for use in San Diego Forward: The 2019 Federal Regional Transportation Plan (2019 Federal RTP) and are included in this appendix. This appendix also includes information on the screening criteria for the regional arterial system. The transportation network from the 2015 Regional Plan was carried forward in the 2019 Federal RTP, with adjustments made to project phasing.

Highway Corridors

The 37 unconstrained highway corridors were evaluated for the 2015 Regional Plan utilizing the criteria shown in Table M.1 and the project rankings were carried forward for use in development of the 2019 Federal RTP. The projects are listed in priority order in Table M.2.

The prioritized list of highway projects was used as a tool in assembling logical transportation networks of highway projects that complement transit and arterial projects. Priority order was not necessarily strictly followed. Rather, emphasis was placed upon developing meaningful networks in accordance with the plan goals and objectives.

Table M.1
Project Evaluation Criteria Highway Corridors

No.	Criteria	Description	Calculation	Max Score	Total Percent	Policy Objectives
<i>Innovative Mobility & Planning</i>						
1	Provides Congestion Relief	A) What is the number of daily person-hours saved from implementing the project?*	Change in daily person-hours saved	10	35	Mobility Choices
		B) What is the number of daily person-hours saved for disadvantaged communities?	Change in daily person-hours saved for disadvantaged communities population	5		
2	Project Safety	How does the project compare against the statewide average for collisions?*	Project percentage of collisions measured against statewide average	5		Preservation and Safety of the Transportation System
3	Provides Access to Evacuation Routes	How will the project provide evacuation access for regional hazard areas?	Proximity analysis of hazard areas (dam failure, earthquake, flood, landslide, liquefaction, tsunami, and wildfire), weighted by population and employment	5		Preservation and Safety of the Transportation System, Partnerships and Collaboration, Binational Collaboration with Baja California
4	Facilitates FasTrak/ Carpool/Transit, Pedestrian and Bike Mobility	How will the project facilitate FasTrak/carpool/Managed Lane facilities and/or regional or corridor transit services and/or pedestrian and bike access?	Projects will receive points if they include FasTrak/carpool/Managed Lane facility, and/or regional or corridor transit services, and/or pedestrian and bike facilities, which is then weighted by combined carpool person volume + transit person volume	10		Mobility Choices, Complete Communities

Table M.1 (continued)
Project Evaluation Criteria Highway Corridors

No.	Criteria	Description	Calculation	Max Score	Total Percent	Policy Objectives
<i>Healthy Environment & Communities</i>						
5	Minimizes Habitat and Residential Impacts	How will the project minimize negative habitat and residential impacts?*	Proximity analysis of preserve areas, native habitats, and housing (more than two dwelling units per acre)	5	30	Habitat and Open Space Preservation, Environmental Stewardship
6	Greenhouse gas and Pollutant Emissions	A) What is the reduction in CO ₂ emissions from implementing the project?*	Reduction in CO ₂ emissions	5		Environmental Stewardship, Energy and Climate Change Mitigation and Adaptation
		B) What is the reduction in smog forming pollutants from implementing the project?*	Reduction in smog-forming pollutants	5		
7	Serves RCP Smart Growth Areas	What is the share of trips on the facility serving RCP Smart Growth Areas (Metropolitan Center, Urban Center, and Special Use Center)?*	Share of trips on facility serving existing/planned or potential Metropolitan Center, Urban Center, and Special Use Center is calculated, using select link analysis	10		Complete Communities, Regional Economic Prosperity, Habitat and Open Space Preservation
8	Physical Activity	What is the increase in physical activity?	Increase in time engaged in moderate transportation-related physical activity	5		Mobility Choices, Complete Communities

Table M.1 (continued)

Project Evaluation Criteria Highway Corridors

No.	Criteria	Description	Calculation	Max Score	Total Percent	Policy Objectives
<i>Vibrant Economy</i>						
9	Accessibility	A) What is the improved access to jobs and schools?	Weighted average number of jobs and school enrollment accessible in 30 minutes by auto	4	35	Mobility Choices, Regional Economic Prosperity
		B) How will the project support access to recreational areas and beaches?	Acres of parkland/recreational areas and beaches within 1/4 mile of project	4		Complete Communities, Habitat and Open Space Preservation
		C) What percentage of users of the project access Indian reservations?	Select link used to determine origins and destinations served, total trips to/from Indian reservation areas	2		Mobility Choices, Partnerships and Collaboration
10	Serves Goods Movement and Relieves Freight System Bottlenecks/ Capacity Constraints	What is the improved average travel time for freight?*	Total travel time savings for medium and heavy truck classes	5		Mobility Choices, Regional Economic Prosperity, Binational Collaboration with Baja California
11	Project Cost-Effectiveness	What is the cost-effectiveness of the project?*	Enhanced cost-effectiveness measure incorporates the following components: - Project cost - Generalized delay costs - Fuel costs - Greenhouse gas emissions - Smog-forming pollutants - Physical activity - Safety	20		Mobility Choices, Regional Economic Prosperity, Complete Communities, Binational Collaboration with Baja California, Preservation and Safety of the Transportation System, Environmental Stewardship, Energy and Climate Change Mitigation and Adaptation

* Provides dual evaluation for both passenger vehicles and trucks.

Table M.2
Highway Corridor Project Rankings

<i>TransNet</i> , Early Action Program (EAP)	Freeway/ Highway	From	To	Existing	With Improvements	Unconstrained Cost (\$2014) (millions) ¹	Total Score	Regional Plan Project Rank
EAP (Env)	I-5	La Jolla Village Dr	Vandegrift	8F/10F+2HOV	8F/10F+4ML	\$3,045.2	57.7	1
EAP (Transit/Env)	I-805	SR 905	Carroll Canyon Rd	8F+2HOV	8F+2ML/8F+4ML	\$3,419.0	54.1	2
<i>TransNet</i>	SR 78	I-5	I-15	6F	6F+2ML/Operational	\$959.5	51.4	3
<i>TransNet</i>	I-5	SR 905	SR 15	8F	8F/10F+2HOV	\$651.5	45.2	4
n/a	SR 15	SR 94	I-805	6F	6F+2HOV	\$30.3	45.0	5
<i>TransNet</i>	SR 54	I-5	SR 125	6F	6F/8F+2HOV	\$232.3	37.2	6
<i>TransNet</i>	I-5	I-8	La Jolla Village Dr	8F/10F	8F/10F+2HOV	\$555.5	36.7	7
<i>TransNet</i>	I-5	SR 15	I-8	8F	8F+Operational	\$1,176.7	33.2	8
EAP (Transit)	I-15	I-8	SR 163	8F	8F+2HOV	\$55.6	31.6	9
EAP (Transit)	SR 94	I-5	I-805	8F	8F+2HOV	\$484.8	31.3	10
n/a	I-8	Los Coches	Dunbar Rd	4F/6F	6F	\$131.3	30.5	11
<i>TransNet</i>	SR 94	I-805	SR 125	8F	8F/10F+2ML	\$469.7	30.5	11
n/a	SR 76	I-15	Couser Canyon	2C	4C/6C+Operational	\$131.3	29.8	13
<i>TransNet</i>	I-8	2nd St	Los Coches	4F/6F	6F	\$35.4	29.2	14
<i>TransNet</i>	SR 125	SR 54	SR 94	6F	8F+2HOV	\$146.5	29.2	14
n/a	SR 125	SR 94	I-8	8F	10F+2HOV	\$292.9	29.1	16
n/a	I-8	SR 125	2nd St	6F/8F	6F/8F+Operational	\$166.7	28.9	17
n/a	I-15	Viaduct		8F	8F+2HOV	\$843.4	28.1	18

¹ Project costs for the 2015 Regional Plan were included in \$2014. Updated project costs were prepared in \$2019 for the 2019 Federal RTP.

Table M.2 (continued)

Highway Corridor Project Rankings

<i>TransNet</i> , Early Action Program (EAP)	Freeway/ Highway	From	To	Existing	With Improvements	Unconstrained Cost (\$2014) (millions)	Total Score	Regional Plan Project Rank
<i>TransNet</i>	SR 94	SR 125	Avocado Blvd	4F	6F	\$111.1	27.5	19
n/a	SR 52	I-5	I-805	4F	6F	\$111.1	26.5	20
n/a	SR 15	I-5	SR 94	6F	8F+2HOV	\$136.4	26.3	21
n/a	SR 163	I-805	I-15	8F	8F+2HOV	\$333.3	25.9	22
n/a	SR 52	SR 125	SR 67	4F	6F	\$252.5	25.8	23
n/a	SR 125	SR 905	SR 54	4F	8F	\$232.3	25.2	24
n/a	SR 76	Couser Canyon	SR 79	2C	2C+Operational	\$632.8	25.1	25
n/a	SR 125	I-8	SR 52	6F	6F+2HOV	\$262.6	24.8	26
<i>TransNet</i>	SR 94	Avocado Blvd	Melody Ln	4C/2C	6C/2C+Operational	\$419.2	24.2	27
n/a	SR 905	I-5	I-805	4F	8F	\$156.6	23.6	28
<i>TransNet</i>	SR 56	I-5	I-15	4F	6F+2HOV	\$303.0	23.4	29
n/a	SR 15	Lake Hodges	SR 78	8F/10F	10F	\$232.3	21.7	30
<i>TransNet</i>	SR 67	Mapleview St	Dye Rd	2C/4C	4C	\$575.7	21.1	31
n/a	I-8	I-5	SR 125	8F/10F	8F/10F+Operational	\$666.6	20.7	32
n/a	SR 76	I-5	Melrose Dr	4E	6E	\$232.3	20.6	33
n/a	SR 52	I-805	I-15	6F	6F+2HOV	\$90.9	20.2	34
n/a	SR 67	I-8	Mapleview St	4F/6F	6F/8F	\$141.4	19.2	35
<i>TransNet</i> (2ML(R))	SR 52	I-15	SR 125	4F/6F	6F+3ML(R)	\$454.5	14.5	36
n/a	SR 905	I-805	Mexico	6F	8F	\$202.0	13.5	37

Table M.2 Legend

C = Conventional Highway Lanes

F = Freeway Lanes

HOV = High Occupancy Vehicle Lanes

ML = Managed Lanes

ML(R) = Managed Lanes (Reversible)

T = Toll Lanes

Transit Services

Table M.3 includes the detailed criteria and weighting for prioritizing transit service projects. The 51 unconstrained transit routes evaluated for the 2015 Regional Plan and utilized in development of the 2019 Federal RTP are listed in priority order in Table M.4.

Table M.3
Project Evaluation Criteria Transit Services

No.	Criteria	Description	Calculation	Max Score	Total Percent	Policy Objectives
<i>Innovative Mobility & Planning</i>						
1	Provides Time Competitive/ Reliable Transit Service	What is the percentage of the route located in priority treatment?	Analysis of percentage of transit route within dedicated transit guideway; dedicated arterial lane, interrupted rail, or Managed Lane; or HOV lane or arterial spot treatment	10	35	Mobility Choices, Complete Communities
2	Serves Daily Trips	What is the number of additional daily transit trips resulting from the project?	Change in daily transit linked trips	15		Mobility Choices, Complete Communities
3	Provides Access to Evacuation Routes	How will the project provide evacuation access for regional hazards?	Proximity analysis of hazard areas (dam failure, earthquake, flood, landslide, liquefaction, tsunami, and wildfire), weighted by population and employment	5		Mobility Choices, Partnerships and Collaboration, Binational Collaboration with Baja California, Preservation and Safety of the Transportation System
4	Daily System Utilization	What is the daily transit utilization?	Daily passenger miles/ daily service seat miles (system wide)	5		Mobility Choices, Complete Communities

Table M.3 (continued)

Project Evaluation Criteria Transit Services

No.	Criteria	Description	Calculation	Max Score	Total Percent	Policy Objectives
<i>Healthy Environment & Communities</i>						
5	Greenhouse gas and Pollutant Emissions	A) What is the reduction in CO ₂ emissions from implementing the project?	Reduction in CO ₂ emissions	5	30	Environmental Stewardship, Energy and Climate Change Mitigation and Adaptation
		B) What is the reduction in smog forming pollutants from implementing the project?	Reduction in smog forming pollutants	5		
6	Serves RCP Smart Growth Areas	What is the share of trips on the transit service serving RCP Smart Growth areas?	Share of trips on transit service serving all existing/planned or potential Smart Growth Areas is calculated, using select link analysis	10		Complete Communities, Regional Economic Prosperity, Habitat and Open Space Preservation
7	Physical Activity	What is the increase in physical activity?	Increase in time engaged in moderate transportation-related physical activity	10		Mobility Choices, Complete Communities
<i>Vibrant Economy</i>						
8	Accessibility	A) What is the increase in job and school trips by transit?	Change in daily transit linked work and school trips	4	35	Mobility Choices, Regional Economic Prosperity
		B) How will the project support access to recreational areas and beaches?	Acres of parkland/ recreational areas and beaches within 1/4 mile of project	3		

Table M.3 (continued)

Project Evaluation Criteria Transit Services

No.	Criteria	Description	Calculation	Max Score	Total Percent	Policy Objectives
<i>Vibrant Economy (continued)</i>						
		C) What is the increase in transit trips by disadvantaged communities?	Change in total transit trips by disadvantaged communities' population	3		Mobility Choices, Partnerships and Collaboration
		D) How will the project facilitate pedestrian and bike access?	Project located within 1/4 mile of pedestrian and bike facilities	3		Mobility Choices, Complete Communities
		E) What is the increase in transit trips to federally recognized Indian reservations?	Change in total transit trips to/from Indian reservations	2		Mobility Choices, Partnerships and Collaboration
9	Project Cost-Effectiveness	What is the cost-effectiveness of the project?	Enhanced cost-effectiveness measure incorporates the following components: <ul style="list-style-type: none"> - Project cost - Fuel costs - Greenhouse gas emissions - Smog forming pollutants - Physical activity - Safety 	20		Mobility Choices, Regional Economic Prosperity, Binational Collaboration with Baja California, Preservation and Safety of the Transportation System, Environmental Stewardship, Energy and Climate Change Mitigation and Adaptation

**Table M.4
Transit Service Project Rankings**

<i>TransNet/ Early Action Program (EAP)</i>	Service	Route	Project Description	Unconstrained Cost (\$2014) (millions) ²	Total Score	Regional Plan Project Rank
	Trolley	562	Carmel Valley to San Ysidro via Kearny Mesa	\$2,632.5	95.9	1
	Trolley	550	SDSU to Palomar Station via East San Diego, SE San Diego, National City	\$1,581.5	65.2	2
	Trolley	560	SDSU to Downtown via El Cajon Blvd/Mid-City (transition of Mid-City <i>Rapid</i> to LRT)	\$2,389.9	64.5	3
<i>TransNet/ EAP</i>	COASTER	398	Double Tracking (includes all COASTER improvements, positive train control, extension to National City, and Camp Pendleton)	\$2,901.6	63.7	4
	Trolley	563	Pacific Beach to El Cajon Transit Center via Kearny Mesa, Mission Valley, SDSU	\$1,297.7	61.9	5
	BRT	650	Chula Vista to Palomar Airport Rd Business Park via I-805/I-5 (peak only)	\$81.9	51.6	6
<i>TransNet</i>	SPRINTER	399	Double Tracking (includes all SPRINTER improvements and extension to South Escondido)	\$945.5	51.5	7
	<i>Rapid</i>	28	Point Loma to Kearny Mesa via Old Town, Linda Vista	\$49.8	49.4	8
	<i>Rapid</i>	103	Solana Beach to Sabre Springs BRT station via Carmel Valley	\$66.8	47.4	9
	<i>Rapid</i>	10	La Mesa to Ocean Beach via Mid-City, Hillcrest, Old Town	\$87.7	44.9	10
	Trolley	561	UTC to Mira Mesa via Sorrento Mesa/Carroll Cyn (extension of route 510). Includes connection with COASTER at Scranton Rd	\$1,167.4	42.1	11

² Project costs for the 2015 Regional Plan were included in \$2014. Updated project costs were prepared in \$2019 for the 2019 Federal RTP.

Table M.4 (continued)

Transit Service Project Rankings

<i>TransNet/ Early Action Program (EAP)</i>	Service	Route	Project Description	Unconstrained Cost (\$2014) (millions)	Total Score	Regional Plan Project Rank
<i>TransNet</i>	BRT	680	Otay Mesa/San Ysidro to Sorrento Mesa via I-805 Corridor, Otay Ranch/Millenia, National City, Southeastern San Diego, Mid-City, Kearny Mesa	\$457.9	42.0	12
	Trolley	522	Orange Line Express - El Cajon to ITC/Airport	\$197.2	41.6	13
	<i>Rapid</i>	30	Old Town to Sorrento Mesa via Pacific Beach, La Jolla, UTC	\$104.9	40.6	14
	Trolley	564	Otay Mesa East Border Crossing to Western Chula Vista via Otay Ranch/Millenia	\$1,000.7	40.5	15
	<i>Rapid</i>	41	Fashion Valley to VA Hospital via SR 163, Genesee, La Jolla Village Dr	\$55.4	40.2	16
	BRT	940	Oceanside to Sorrento Mesa via I-5, Carlsbad, Encinitas (peak only)	\$39.0	40.0	17
	<i>Rapid</i>	473	Oceanside TC to UC San Diego via Pacific Hwy, Del Mar Heights, El Camino Real and UTC	\$129.7	38.4	18
	Trolley	540	Blue Line Express - Santa Fe Depot to San Ysidro via Downtown	\$390.6	38.3	19
	<i>Rapid</i>	2	North Park to Downtown San Diego via 30th St / Broadway	\$38.9	35.6	20
	Trolley	566	Palomar St Trolley Station to UTC via Mid-City, Kearny Mesa (Route 562 Express)	\$334.9	35.5	21
	<i>Rapid</i>	477	East Camp Pendleton to Carlsbad Village via Vandergrift, College Blvd, Plaza Camino Real	\$80.0	33.7	22
	BRT	430	Oceanside to Escondido via SR 78	\$239.6	33.3	23
	<i>Rapid</i>	910	Coronado to Downtown via Coronado Bridge	\$25.7	31.9	24
	<i>Rapid</i>	11	Spring Valley to SDSU via SE San Diego, Downtown, Hillcrest, Mid-City	\$113.2	31.5	25

Table M.4 (continued)

Transit Service Project Rankings

<i>TransNet/ Early Action Program (EAP)</i>	Service	Route	Project Description	Unconstrained Cost (\$2014) (millions)	Total Score	Regional Plan Project Rank
	BRT	905 ³	Iris Trolley Station to East Otay Mesa via Otay Mesa	\$0.00	30.6	26
	Streetcar	553	Downtown San Diego: Little Italy to East Village	\$139.4	30.6	26
	Streetcar	554	Hillcrest/Balboa Park/Downtown San Diego Loop	\$285.2	30.3	28
	<i>Rapid</i>	440	Carlsbad Pointsettia to Escondido TC to UC San Diego via Palomar Airport Rd, San Marcos Blvd, Mission Rd	\$51.3	30.3	28
	SPRINTER	588	SPRINTER Express. Escondido Transit Center - Oceanside Transit Center	\$243.9	30.2	30
	BRT	652	Downtown to UTC via Kearny Mesa Guideway/I-805	\$2.8	29.7	31
	BRT	653	Mid-City to Palomar Airport Rd via Kearny Mesa/I-805/I-5	\$10.5	29.4	32
	Streetcar	565	Mission Beach to La Jolla via Pacific Beach	\$246.0	29.0	33
	<i>Rapid</i>	709	H St Trolley to Millenia via H St Corridor, Southwestern College	\$37.0	28.2	34
	Streetcar	555	30th St to Downtown San Diego via North Park/Golden Hill	\$256.1	28.1	35
	<i>Rapid</i>	120	Kearny Mesa to Downtown via SR 163/Fashion Valley – No guideway	\$77.9	27.9	36
	<i>Rapid</i>	635	Eastlake/EUC to Palomar Trolley Station via Main St Corridor	\$55.3	27.4	37
	Streetcar	557	El Cajon Downtown	\$164.5	26.7	38
	<i>Rapid</i>	639	Iris Trolley Station to North Island via Imperial Beach and Silver Strand, Coronado	\$54.2	26.2	39

³ Included as *Rapid* 950 in the 2019 Federal RTP as an extension of service from the Iris Trolley Station to Otay Mesa with new service to Imperial Beach.

Table M.4 (continued)

Transit Service Project Rankings

<i>TransNet/ Early Action Program (EAP)</i>	Service	Route	Project Description	Unconstrained Cost (\$2014) (millions)	Total Score	Regional Plan Project Rank
	<i>Rapid</i>	636	SDSU to Spring Valley via East San Diego, Lemon Grove, Skyline	\$39.5	25.1	40
	<i>Rapid</i>	637	North Park to 32nd St Trolley via Golden Hill	\$32.6	24.9	41
	BRT	870	El Cajon to Campus Point via Santee, SR 52, I-805	\$7.7	24.4	42
	<i>Rapid</i>	471	Downtown Escondido to East Escondido	\$31.7	24.3	43
	<i>Rapid</i>	474	Oceanside to Vista via Mission Ave/Santa Fe Rd Corridor	\$50.4	23.8	44
	BRT	692	Grossmont Center to Otay Town Center/Millenia via Southwest College, SR 125, Spring Valley	\$4.5	23.4	45
	BRT	890	El Cajon to Sorrento Mesa via SR 52, Kearny Mesa	\$12.7	23.1	46
	Streetcar	551	Chula Vista Downtown	\$137.8	22.5	47
	Streetcar	558	Escondido Downtown	\$51.2	22.4	48
	<i>Rapid</i>	638	Iris Trolley to Otay Mesa via Otay, SR 905 Corridor	\$38.2	21.6	49
	Streetcar	559	Oceanside Downtown	\$45.7	21.4	50
	Streetcar	552	National City Downtown	\$41.2	21.3	51

Active Transportation

Project priorities from *Riding to 2050: The San Diego Regional Bike Plan* and its associated Early Action Program were utilized to prioritize active transportation projects. A list of ranked active transportation projects can be seen in Table M.5.

Table M.5

Regional Bike Plan Network Corridor Rankings

EAP Priority	Project	Jurisdiction(s)	Funding Through Project Phase	Cost (\$2014) ⁴
<i>Early Action Program (EAP)</i>				
1	Uptown - Fashion Valley to Downtown San Diego	San Diego	Const.	\$22,889,000
2	Uptown - Old Town to Hillcrest	San Diego	Const.	\$17,979,000
3	Uptown - Hillcrest to Balboa Park	San Diego	Const.	\$2,579,000
4	North Park - Mid-City - Hillcrest to Kensington	San Diego	Const.	\$5,727,000
5	North Park - Mid-City - Hillcrest to City Heights (Hillcrest-El Cajon Corridor)	San Diego	Const.	\$5,775,000
6	North Park - Mid-City - City Heights	San Diego	Const.	\$2,688,000
7	North Park - Mid-City - Hillcrest to City Heights (City Heights - Old Town Corridor)	San Diego	Const.	\$4,869,000
8	North Park - Mid-City - City Heights to Rolando	San Diego	Const.	\$4,319,000
9	San Diego River Trail - Qualcomm Stadium	San Diego	Const.	\$829,000
10	San Diego River Trail - Father Junipero Serra Trail to Santee	Santee	ROW	\$2,816,000
11	Coastal Rail Trail San Diego - Rose Creek	San Diego	Const.	\$20,636,000
12	Bayshore Bikeway - Main St to Palomar	Chula Vista/ Imperial Beach	Const.	\$2,959,000
13	Coastal Rail Trail Encinitas - Chesterfield to G	Encinitas	Const.	\$6,885,000
14	Coastal Rail Trail Encinitas - Chesterfield to Solana Beach	Encinitas	Eng.	\$100,000
15 to 18	Inland Rail Trail (combination of four projects)	San Marcos, Vista, County of San Diego	Const.	\$32,691,000
19	Coastal Rail Trail Oceanside - Wisconsin to Oceanside Blvd.	Oceanside	Const.	\$200,000
20	Plaza Bonita Bike Path	National City	Const.	\$400,000
21	Bayshore Bikeway - National City Marina to 32nd St	San Diego/ National City	Const.	\$1,503,000
22	I-15 Mid-City - Adams Ave to Camino Del Rio S	San Diego	Const.	\$9,341,000
23	Bayshore Bikeway - Barrio Logan	San Diego	ROW	\$4,604,000
24	Pershing and El Prado - North Park to Downtown San Diego	San Diego	Const.	\$7,282,000
25	Pershing and El Prado - Cross-Park	San Diego	Const.	\$613,000

⁴ Project costs for the 2015 Regional Plan were included in \$2014. Updated project costs were prepared in \$2019 for the 2019 Federal RTP.

Table M.5 (continued)

Regional Bike Plan Network Corridor Rankings

EAP Priority	Project	Jurisdiction(s)	Funding Through Project Phase	Cost (\$2014)
<i>Early Action Program (EAP) (continued)</i>				
26	Downtown to Southeast connections - East Village	San Diego	ROW	\$787,000
27	Downtown to Southeast connections - Downtown San Diego to Encanto	San Diego	ROW	\$3,045,000
28	Downtown to Southeast connections - Downtown San Diego to Golden Hill	San Diego	ROW	\$2,825,000
29	San Ysidro to Imperial Beach - Bayshore Bikeway Connection (Border Access)	Imperial Beach/ San Diego	ROW	\$1,726,000
30	San Ysidro to Imperial Beach - Bayshore Bikeway Connection (Imperial Beach Connector)	Imperial Beach/ San Diego	ROW	\$860,000
31	Terrace Dr/Central Ave - Adams to Wightman	San Diego	Const.	\$1,407,000
32	San Diego River Trail - I-805 to Fenton	San Diego	Const.	\$1,741,000
33	San Diego River Trail - Short gap connections	San Diego	Const.	\$1,370,000
34	Coastal Rail Trail Encinitas - Leucadia to G St	Encinitas	Const.	\$4,763,000
35	Coastal Rail Trail San Diego - UTC	San Diego	ROW	\$791,000
36	Coastal Rail Trail San Diego - Rose Canyon	San Diego	ROW	\$2,508,000
37	Coastal Rail Trail San Diego - Pacific Hwy (W. Washington St to Laurel St)	San Diego	Const.	\$4,050,000
38	Coastal Rail Trail San Diego - Pacific Hwy (Laurel St to Santa Fe Depot)	San Diego	Const.	\$7,628,000
39	Coastal Rail Trail San Diego - Encinitas Chesterfield to Solana Beach	Encinitas	Const.	\$127,000
40	Coastal Rail Trail San Diego – Pacific Hwy (Taylor St to W. Washington St)	San Diego	Const.	\$3,994,000
41	San Ysidro to Imperial Beach - Bayshore Bikeway Connection	Imperial Beach/ San Diego	Const.	\$6,204,000
42	Coastal Rail Trail San Diego - Pacific Hwy (Fiesta Island Rd to Taylor St)	San Diego	Const.	\$7,270,000
43	San Diego River Trail - Father Junipero Serra Trail to Santee	Santee	Const.	\$7,412,000
44	Bayshore Bikeway - Barrio Logan	San Diego	Const.	\$13,591,000
45	Downtown to Southeast connections	San Diego	Const.	\$17,015,000
46	Coastal Rail Trail San Diego - UTC	San Diego	Const.	\$2,691,000
47	City Heights /Encanto/Lemon Grove	Lemon Grove/ San Diego	Const.	\$7,045,000
48	City Heights/Fairmount Corridor	San Diego	Const.	\$12,216,000

Table M.5 (continued)

Regional Bike Plan Network Corridor Rankings

EAP Priority	Project	Jurisdiction(s)	Funding Through Project Phase	Cost (\$2014)
<i>Early Action Program (EAP) (continued)</i>				
49	Rolando to Grossmont/La Mesa	La Mesa/ El Cajon/ San Diego	Const.	\$2,469,000
50	La Mesa/Lemon Grove/El Cajon connections	Lemon Grove/ La Mesa	Const.	\$5,458,000
51	Coastal Rail Trail - Rose Canyon	San Diego	Const.	\$8,433,000
52	San Diego River Trail - Qualcomm Stadium to Ward Rd	San Diego	Const.	\$1,568,000
53	San Diego River Trail - Rancho Mission Road to Camino Del Rio North	San Diego	Const.	\$263,000
54	Coastal Rail Trail San Diego - Rose Creek Mission Bay Connection	San Diego	Const.	\$3,990,000
55	Coastal Rail Trail Carlsbad - Reach 4 Cannon to Palomar Airport Rd	Carlsbad	Const.	\$5,084,000
56	Coastal Rail Trail Carlsbad - Reach 5 Palomar Airport Rd to Poinsettia Station	Carlsbad	Const.	\$2,738,000
57	Coastal Rail Trail Encinitas - Carlsbad to Leucadia	Encinitas	Const.	\$6,634,000
58	Coastal Rail Trail Del Mar	Del Mar	Const.	\$396,000
59	Coastal Rail Trail San Diego - Del Mar to Sorrento via Carmel Valley	Del Mar/ San Diego	Const.	\$411,000
60	Coastal Rail Trail San Diego - Carmel Valley to Roselle via Sorrento	San Diego	Const.	\$867,000
61	Coastal Rail Trail San Diego - Roselle Canyon	San Diego	Const.	\$4,958,000
62	Chula Vista National City connections	Chula Vista/ National City	Const.	\$10,516,000
63	Pacific Beach to Mission Beach	San Diego	Const.	\$9,509,000
64	Ocean Beach to Mission Bay	San Diego	Const.	\$23,815,000
65	San Diego River Trail - Bridge connection (Sefton Field to Mission Valley YMCA)	San Diego	Const.	\$7,259,000
66	San Diego River Trail - Mast Park to Lakeside baseball park	Santee	Const.	\$10,335,000
67	I-8 Flyover (Camino del Rio South to Camino del Rio North)	San Diego	Const.	\$9,914,000
68	Coastal Rail Trail Oceanside - Broadway to Eaton	Oceanside	Const.	\$445,000
69	El Cajon - Santee connections	El Cajon/ La Mesa/ Santee	Const.	\$12,289,000
70	San Diego River Trail - Father JS Trail to West Hills Parkway	San Diego	Const.	\$2,883,000

Table M.5 (continued)

Regional Bike Plan Network Corridor Rankings

EAP Priority	Project	Jurisdiction(s)	Funding Through Project Phase	Cost (\$2014)
<i>Early Action Program (EAP) (continued)</i>				
71	Inland Rail Trail Oceanside	Oceanside	Const.	\$18,786,000
72	Coastal Rail Trail Carlsbad - Reach 3 Tamarack to Cannon	Carlsbad	Const.	\$4,814,000
73	Clairemont Dr (Mission Bay to Burgener)	San Diego	Const.	\$7,688,000
74	Harbor Dr (Downtown to Ocean Beach)	San Diego	Const.	\$6,980,000
75	Mira Mesa Bike Blvd	San Diego	Const.	\$3,751,000
76	Sweetwater River Bikeway Ramps	National City	Const.	\$8,883,000
77	Coastal Rail Trail Oceanside - Alta Loma Marsh bridge	Oceanside	Const.	\$4,684,000
78	Coastal Rail Trail San Diego - Mission Bay (Clairemont to Tecolote)	San Diego	Const.	\$3,092,000
79	Bayshore Bikeway Coronado - Golf course adjacent	Coronado	Const.	\$2,817,000

Non-Early Action Program (EAP)

Non-EAP Priority	Corridor	Corridor Limits	Jurisdiction
80	Coastal Rail Trail	Del Mar segments	Del Mar
81	Central Coast Corridor	Coastal Rail Trail, Del Mar to Bayshore Bikeway	Del Mar, San Diego
82	Kearny Mesa-Beaches Corridor	Central Coast Corridor, Pacific Beach to I-15 Bikeway	San Diego
83	San Diego River Bikeway	Segments west of I-805	San Diego
84	SR 125 Corridor	San Diego River Bikeway, Santee to Otay Mesa Border Crossing	Santee, County, San Diego, Chula Vista
85	Mira Mesa Corridor	Coastal Rail Trail to I-15 Bikeway	San Diego
86	Mid-County Bikeway	Coastal Rail Trail, Del Mar to Inland Rail Trail	Del Mar, County, Escondido
87	Bay to Ranch Bikeway	Bayshore Bikeway to Chula Vista Greenbelt	Chula Vista
88	Escondido Creek Bikeway	I-15 Bikeway, Escondido to Valley Centre Rd	Escondido
89	Chula Vista Greenbelt	Bayshore Bikeway, San Diego to SR 125 Corridor	Chula Vista
90	SR 52 Bikeway	Coastal Rail Trail to San Diego River Bikeway	San Diego

Table M.5 (continued)

Regional Bike Plan Network Corridor Rankings

Non-EAP Priority	Corridor	Corridor Limits	Jurisdiction
<i>Non-Early Action Program (EAP) (continued)</i>			
91	Sweetwater River Bikeway	Bayshore Bikeway to SR 125 Corridor	National City, Chula Vista
92	Vista Way Connector	San Luis Rey River Trail to Inland Rail Trail	Vista, County
93	SR 905 Corridor	Border Access Corridor to Future SR 11 Border Crossing	San Diego, County
94	Carlsbad-San Marcos Corridor	Coastal Rail Trail, Carlsbad to Inland Rail Trail,	94
95	I-15 Bikeway	Northern boundary of County to City Heights - Old Town Corridor	Escondido, City of San Diego
96	San Luis Rey River Trail	Coastal Rail Trail Oceanside to I-15 Bikeway (County)	Oceanside, County
97	Camp Pendleton Trail	Northern boundary of County to San Luis Rey River Trail	USMC
98	Encinitas - San Marcos Corridor	Coastal Rail Trail, Inland Rail Trail	Encinitas, San Marcos
99	I-8 Corridor	SR 125 Corridor to Japatul Valley Rd	County of San Diego
100	SR 56 Bikeway	Coastal Rail Trail to I-15 Bikeway	San Diego
101	El Camino Real	San Luis Rey River Trail to Coastal Rail Trail, Encinitas	Oceanside, Carlsbad, Encinitas
102	East County Northern Loop	SR 125 Corridor, La Mesa to SR 125 Corridor, County	El Cajon, La Mesa, County
103	East County Southern Loop	East County Northern Loop, El Cajon to SR 125 Corridor	County
Bike Plan EAP Estimated Cost (Priorities 1-79)			\$460.5 M
Regional Bike Plan Non-EAP Estimated Cost (Priorities 80-103)			\$276.7 M
Regional Bike Plan Estimated Cost			\$737.2 M

Managed Lane Connectors

Managed Lane connectors will facilitate direct Managed Lane to Managed Lane access and allow for continuous movement on the HOV or Managed Lanes network. The six criteria and weighting for the Managed Lanes Connectors are shown in Table M.6. The 22 Managed Lane connectors are listed in priority order by pairs in Table M.7.

Table M.6
Project Evaluation Criteria Managed Lane Connector

No.	Criteria	Description	Calculation	Max Score	Total Percent	Policy Objectives
<i>Innovative Mobility & Planning</i>						
1	Provides Congestion Relief	What is the number of daily person-hours saved from implementing the project?	Change in daily person-hours saved	15	35	Mobility Choices
2	Provides Access to Evacuation Routes	How will the project provide evacuation access for regional hazard areas?	Proximity analysis of hazard areas (dam failure, earthquake, flood, landslide, liquefaction, tsunami, and wildfire), weighted by population and employment	5		Preservation and Safety of the Transportation System, Partnerships and Collaboration, Binational Collaboration with Baja California
3	Facilitates FasTrak/Carpool/Transit, Pedestrian and Bike Mobility	How will the project facilitate FasTrak/ carpool/Managed Lane facilities and/or regional or corridor transit services and/or pedestrian and bike access?	Projects will receive points if they include FasTrak/carpool/ Managed Lane facility, and/or regional or corridor transit services, and/or pedestrian and bike facilities, which is then weighted by combined carpool person volume + transit person volume	15		Mobility, Complete Communities

Table M.6 (continued)

Project Evaluation Criteria Managed Lane Connector

No.	Criteria	Description	Calculation	Max Score	Total Percent	Policy Objectives
<i>Healthy Environment & Communities</i>						
4	Minimizes Habitat and Residential Impacts	How will the project minimize negative habitat and residential impacts?	Proximity analysis of preserve areas, native habitats, and housing (more than two dwelling units per acre)	15	30	Habitat and Open Space Preservation, Environmental Stewardship
5	Greenhouse gas and Pollutant Emissions	A) What is the reduction in CO ₂ emissions from implementing the project?	Reduction in CO ₂ emissions	10		Environmental Stewardship, Energy and Climate Change Mitigation and Adaptation
		B) What is the reduction in smog forming pollutants from implementing the project?	Reduction in smog forming pollutants	5		
<i>Vibrant Economy</i>						
6	Project Cost-Effectiveness	What is the cost-effectiveness of the project?	Enhanced cost-effectiveness measure incorporates the following components: <ul style="list-style-type: none"> - Project cost - Generalized delay costs - Fuel costs - Greenhouse gas emissions - Smog forming pollutants - Physical activity - Safety 	35	35	Mobility Choices, Regional Economic Prosperity, Binational Collaboration with Baja California, Preservation and Safety of the Transportation System, Environmental Stewardship, Energy and Climate Change Mitigation and Adaptation

Table M.7

Managed Lane Connector Project Rankings

<i>TransNet</i>	Freeway/ Highway	Intersecting Freeway/ Highway	Movement	Unconstrained Cost (\$2014) (millions) ⁵	Total Score	2015 Regional Plan Project Rank
<i>TransNet</i>	I-15	SR 78	East to South and North to West	\$106	62.4	1
<i>TransNet</i>	I-5	I-805	North to North and South to South	\$101	61.6	2
	I-805	SR 52	West to North and South to East	\$91	56.8	3
	SR 15	I-805	North to North and South to South	\$81	53.2	4
	I-5	SR 15	North to North and South to South	\$197	52.4	5
	I-15	SR 52	West to North and South to East	\$131	49.5	6
	I-15	SR 56	East to North and South to West	\$172	48.4	7
	I-5	SR 78	South to East and West to North, North to East and West to South	\$253	47.8	8
	I-805	SR 94	North to West and East to South	\$101	46.1	9
	I-5	SR 56	South to East and West to North	\$177	41.1	10
	I-15	SR 163	North to North and South to South	\$162	40.5	11
	I-805	SR 94	West to South and North to East	\$217	37.4	12
	SR 94	SR 125	North to North and South to South	\$146	37.3	13
	I-5	SR 56	North to East and West to South	\$152	35.3	14
	I-805	SR 163	North to North and South to South	\$192	33.5	15
	I-15	SR 52	West to South and North to East	\$141	33.0	16
	I-805	SR 54	North to West and East to South	\$157	30.6	17
	I-805	SR 94	East to North and South to East	\$212	26.4	18
	I-5	SR 54	West to South and North to East	\$121	24.8	19
	SR 52	SR 125	North to West and East to South	\$111	23.4	20
	I-5	SR 54	South to East and West to North	\$121	22.3	21
<i>TransNet</i>	SR 15	SR 94	South to West and East to North	\$71	16.1	22

⁵ Project costs for the 2015 Regional Plan were included in \$2014. Updated project costs were prepared in \$2019 for the 2019 Federal RTP.

Freeway-to-Freeway Connectors

Freeway Connectors provide “missing link” connections between freeways. Many of the criteria from the highway corridor criteria are also utilized in this category. There are seven criteria for the Freeway Connectors, which are shown in Table M.8. The list of seven freeway-to-freeway connector projects can be seen in Table M.9 in priority order.

Table M.8
Project Evaluation Criteria Freeway Connector

No.	Criteria	Description	Calculation	Max Score	Total Percent	Policy Objectives
<i>Innovative Mobility & Planning</i>						
1	Provides Congestion Relief	What is the number of daily person-hours saved from implementing the project?*	Change in daily person-hours saved	20	35	Mobility Choices
2	Project Safety	How does the project compare against the statewide average for collisions?*	Project percentage of crash rates measured against statewide averages	5		Preservation and Safety of the Transportation System
3	Provides Access to Evacuation Routes	How will the project provide evacuation access for regional hazard areas?	Proximity analysis of hazard areas (dam failure, earthquake, flood, landslide, liquefaction, tsunami, and wildfire), weighted by population and employment	10		Preservation and Safety of the Transportation System, Partnerships and Collaboration, Binational Collaboration with Baja California
<i>Healthy Environment & Communities</i>						
4	Minimizes Habitat and Residential Impacts	How will the project minimize negative habitat and residential impacts?*	Proximity analysis of preserve areas, native habitats, and housing (more than two dwelling units per acre)	15	30	Habitat and Open Space Preservation, Environmental Stewardship
5	Greenhouse gas and Pollutant Emissions	A) What is the reduction in CO ₂ emissions from implementing the project?*	Reduction in CO ₂ emissions	10		Environmental Stewardship, Energy and Climate Change Mitigation and Adaptation
		B) What is the reduction in smog forming pollutants from implementing the project?*	Reduction in smog forming pollutants	5		

Table M.8 (continued)

Project Evaluation Criteria Freeway Connector

No.	Criteria	Description	Calculation	Max Score	Total Percent	Policy Objectives
<i>Vibrant Economy</i>						
6	Serves Goods Movement and Relieves Freight System Bottlenecks/Capacity Constraints	What is the improved average travel time for freight?*	Total travel time savings for medium and heavy truck classes	15	35	Mobility Choices, Regional Economic Prosperity, Binational Collaboration with Baja California
7	Project Cost-Effectiveness	What is the cost-effectiveness of the project?*	Enhanced cost-effectiveness measure incorporates the following components: <ul style="list-style-type: none"> - Project cost - Generalized delay costs - Fuel costs - Greenhouse gas emissions - Smog forming pollutants - Physical activity - Safety 	20		Mobility Choices, Regional Economic Prosperity, Binational Collaboration with Baja California, Preservation and Safety of the Transportation System, Environmental Stewardship, Energy and Climate Change Mitigation and Adaptation

* Provides dual evaluation for both passenger vehicles and trucks.

Table M.9

Freeway Connector Project Rankings

<i>TransNet</i>	Freeway/ Highway	Intersecting Freeway/ Highway	Movement	Unconstrained Cost (\$2014) (millions)	Total Score	2015 Regional Plan Project Rank
	I-5	I-8	East to North and South to West	\$326	88.4	1
<i>TransNet</i>	I-5	SR 78	South to East and West to South	\$275	50.1	2
<i>TransNet</i>	SR 94	SR 125	South to East	\$61	46.4	3
<i>TransNet</i>	SR 94	SR 125	West to North	\$82	34.2	4
<i>TransNet</i>	I-5	SR 56	West to North and South to East	\$275	32.7	5
	I-5	SR 94	North to East	\$133	27.6	6
	I-15	SR 56	North to West	\$102	19.0	7

Rail Grade Separation Criteria

The evaluation criteria and weightings for rail grade separation projects are shown in Table M.10. The final rankings are included in Table M.11.

Table M.10
Project Evaluation Criteria

San Diego Forward: The Regional Plan Goals	No.	Criteria	Description	Calculation	Max Score	Total Percent	Policy Objectives
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Rail Grade Separations

Innovative Mobility & Planning	1	Peak-Period Exposure Index (PPEI) Factor	Product of the existing high directional traffic and the total measured blocking delay during the same three hours of the day experiencing the highest congestion at the crossing	Calculation based on vehicle traffic during a selected three-hour period, total blocking delay during same period, and mathematical constant for time period	11	34	Mobility Choices
	2	Peak-Day Total Delay Exposure Index (PDEI) Factor	Product of the existing average daily traffic (ADT), the total number of trains, and an average train crossing delay time factor	Calculation based on average daily traffic, total number of trains, train crossing delay factor, and mathematical constant	11		
	3	Pedestrian and Bike/Disadvantaged Communities Benefits	A) Number of pedestrians and people biking served in top 4 hours	Grade separation pedestrian bike crossing counts	4		Mobility Choices, Complete Communities
			B) What is the share of disadvantaged communities population in the proximity of the project?	Ratio of disadvantaged communities share of population within 1/2 mile of project compared to disadvantaged communities share of regional population			Mobility Choices, Partnerships and Collaboration
	4	Bus Operations Benefits	Number of buses served an hour, as well as proximity to transit center	Number of buses served by the grade separation	4		Mobility Choices, Complete Communities
5	Benefit to Emergency Services	Proximity to emergency service provider and lack of nearby alternative grade-separated crossing	Proximity analysis based on emergency service providers and alternative grade separation crossing	4		Mobility Choices, Complete Communities	

Table M.10 (continued)

Project Evaluation Criteria

San Diego Forward: The Regional Plan Goals	No.	Criteria	Description	Calculation	Max Score	Total Percent	Policy Objectives
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Rail Grade Separations (continued)

Healthy Environment & Communities	6	Accident History	Accident history in the past five years	Number of qualifying accidents involving vehicles, pedestrians, and bikes with trains, not including accidents involved in attempted suicides	11	26	Mobility Choices, Preservation and Safety of the Transportation System
	7	Proximity to Noise Sensitive Receptors	Proximity to sensitive receptors	Proximity analysis based on rail crossing located within 200-500 feet of sensitive receptors	4		Complete Communities, Partnerships and Collaboration
	8	Greenhouse gas Emissions	What is the reduction in CO ₂ emissions from implementing the project?	Reduction in CO ₂ emissions	4		Environmental Stewardship, Energy and Climate Change Mitigation and Adaptation
	9	Serves RCP Smart Growth Areas	Is the project located near RCP Smart Growth Areas?	Population and employment in all smart growth areas within 1/4 mile distance of project	7		Complete Communities, Regional Economic Prosperity, Habitat and Open Space Preservation

Table M.10 (continued)

Project Evaluation Criteria

San Diego Forward: The Regional Plan Goals	No.	Criteria	Description	Calculation	Max Score	Total Percent	Policy Objectives
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Rail Grade Separations (continued)

Vibrant Economy	10	Truck Freight Operations	Percentage of daily truck traffic	Percentage of daily traffic of Class 4-Class 13 (as defined by FHWA)	3	15	Mobility Choices, Regional Economic Prosperity, Binational Collaboration with Baja California Partnerships and Collaboration
	11	Funding Request	Percentage of total project costs contributed by the local agency including funds already committed from state, federal, or other source	Percentage of local contribution	4		
	12	Project Cost-Effectiveness	What is the cost-effectiveness of the project?	Enhanced cost-effectiveness measure incorporates the following components: - Number of trains per day - AADT - Gate down time - Percent truck traffic - Safety	8		

Table M.10 (continued)

Project Evaluation Criteria

San Diego Forward: The Regional Plan Goals	No.	Criteria	Description	Calculation	Max Score	Total Percent	Policy Objectives
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Rail Grade Separations (continued)

Regional Housing Needs Assessment (RHNA)	13	Regional Housing Needs Assessment (RHNA) (per Board Policy No. 033 adopted January 2012)	RHNA-related criteria as described in Board Policy No. 033. Eligibility for Policy 33 points requires housing element compliance and submittal of Annual Housing Element Progress Reports to SANDAG.	Based on Board Policy No. 033 Criteria: RHNA Share Taken; Regional Share of Cumulative Total of Lower-Income Units Produced; Total Number of Affordable Housing Units; Percent of Lower Income Households	25	25	Complete Communities, Partnerships and Collaboration
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Table M.11
Rail Grade Separation Project Rankings

Name	City	Unconstrained Cost (\$2014) (millions) ⁶	Average Daily Traffic	Trains Per Day	Total Score	Regional Plan Rank	Rail Designation
Palomar St	Chula Vista	\$41	44,364	206	62.63	1	Light Rail
Broadway/ Lemon Grove Ave	Lemon Grove	\$82	40,403	144	60.19	2	Light Rail
Ash St	San Diego	\$103	30,575	195	59.81	3	Light Rail
H St	Chula Vista	\$41	41,861	206	59.63	4	Light Rail
Washington St	San Diego	\$41	30,345	195	58.81	5	Light Rail
E St	Chula Vista	\$41	39,783	206	58.63	6	Light Rail
Broadway	San Diego	\$113	27,845	150	55.81	7	Light Rail
Taylor St	San Diego	\$113	42,670	195	55.81	7	Light/Heavy Rail
Euclid Ave	San Diego	\$41	37,000	144	50.81	9	Light Rail
28th St	San Diego	\$41	33,225	206	49.81	10	Light Rail
32nd St	San Diego	\$41	32,470	206	46.81	11	Light Rail
Civic Center Dr	Vista	\$41	34,916	68	44.44	12	Light Rail
Auto Parkway and Mission Ave	Escondido	\$36	27,623	68	42.13	13	Light Rail
Sorrento Valley Blvd	San Diego	\$134	37,990	51	40.81	14	Heavy Rail
Allison Ave/University Ave	La Mesa	\$103	24,700	144	40.50	15	Light Rail
North Dr	Vista	\$31	8,793	68	39.94	16	Light Rail
Vista Village Dr/Main St	Vista	\$62	24,927	68	39.44	17	Light Rail
Severin Dr	La Mesa	\$41	8,311	288	37.94	18	Light Rail
El Camino Real	Oceanside	\$41	38,000	68	36.06	19	Light Rail
Grand Ave/ Carlsbad Village Dr	Carlsbad	\$113	21,113	51	35.00	20	Heavy Rail
Melrose Dr	Vista	\$41	25,921	68	31.94	21	Light Rail
Mar Vista Dr	Vista	\$31	9,665	68	29.94	22	Light Rail
Los Angeles Dr	Vista	\$31	4,291	68	29.94	22	Light Rail
Guajome St	Vista	\$31	4,152	68	26.94	24	Light Rail
Leucadia Blvd	Encinitas	\$93	34,000	51	18.50	25	Heavy Rail
Tamarack Ave	Carlsbad	\$93	10,568	51	18.00	26	Heavy Rail
Cannon Road	Carlsbad	\$93	6,416	51	12.00	27	Heavy Rail

* Downtown heavy rail trench in San Diego (Washington, Laurel, Hawthorn, Ash and Broadway Streets) excluded from rankings due to construction feasibility issues.

⁶ Project costs for the 2015 Regional Plan were included in \$2014.

Regional Arterial System

The Regional Arterial System (RAS) constitutes that part of the local street and road network which, in conjunction with the system of highways and transit services, provides for a significant amount of mobility throughout the region. The RAS includes roads eligible for the Regional Transportation Congestion Improvement Program (RTCIP) included in the *TransNet* Ordinance and other funding. The RAS was last updated through an extensive process as part of the 2030 RTP. Minor adjustments were requested by some local jurisdictions and incorporated in subsequent Regional Plans and the 2019 Federal RTP. A Regional Arterial System has been included as part of the Regional Transportation Plan (RTP) since 1989 and includes 1,090 miles of roads.

Regional arterials are considered to be longer contiguous routes that provide accessibility between communities within the region and which may also allow subregional trips to avoid freeway travel. Regional Plan RAS modifications and additions to the RAS are shown in bold in Table M.12.

Regional arterial system screening criteria

In order to qualify for the updated RAS, arterials must meet at least one of four approved criteria shown below. The first criterion is that the arterial is already included in the existing RAS. Any additions to the network must meet one of the remaining three criteria:

- Provides parallel capacity in high-volume corridors to supplement freeways, state highways, and/or other regional arterials (Corridor)
- Provides capacity and a direct connection between freeways or other regional arterials, ensuring continuity of the freeway, state highways, and arterial network throughout the region without duplicating other regional facilities (Cross-corridor)
- Provides all or part of the route for existing or planned regional and/or corridor transit service that provides headways of 15 minutes or less during the peak-period.

There are certain design characteristics that can help facilitate regional trip movements on the RAS. These characteristics can help to facilitate trip movement and include:

- Interconnection and systems management of traffic signals
- Raised or striped medians
- Limitation and separation of left-turn movements
- Limited driveway access and other access controls
- Grade separations at rail crossings
- Shoulders and bikeways to accommodate bike movement
- Pedestrian treatments at intersections
- Priority traffic signal systems for transit service
- Bypass or “queue-jumper” lanes for transit service at critical intersections
- Enhanced transit stops
- Pedestrian facilities designed according to the Regional Pedestrian Design Guidelines
- Modern roundabouts and alternate intersection design where appropriate
- Freeway interchange modifications in accordance with Caltrans standards

A complete listing of the Regional Arterial System is provided in Table M.12 and shown in Figure M.1. All freeway interchanges are considered part of the Regional Arterial System.

Table M.12
Regional Arterials by Jurisdiction

Arterial	Limits	Jurisdiction	
1	Alga Rd	El Camino Real to Melrose Dr	Carlsbad
2	Aviara Pkwy	Palomar Airport Rd to El Camino Real	Carlsbad
3	Cannon Rd	Carlsbad Blvd to College Blvd.	Carlsbad
4	Carlsbad Blvd	Eaton St to La Costa Ave	Carlsbad
5	Carlsbad Village Dr	Interstate 5 to Coast Blvd/Coast Highway	Carlsbad
6	College Blvd	City of Oceanside city limits to Palomar Airport Rd	Carlsbad
7	El Camino Real (S-11)	State Route 78 to Olivenhain	Carlsbad
8	Faraday Ave	Melrose Dr to College Blvd	Carlsbad
9	La Costa Ave	Interstate 5 to El Camino Real	Carlsbad
10	Melrose Dr	City of Vista city limits to Rancho Santa Fe Rd	Carlsbad
11	Olivenhain Rd	Los Pinos Circle to Rancho Santa Fe Rd	Carlsbad
12	Palomar Airport Rd	Carlsbad Blvd to Business Park Dr	Carlsbad
13	Poinsettia Lane	Carlsbad Blvd to Melrose Dr	Carlsbad
14	Rancho Santa Fe Rd	Melrose Dr to Olivenhain Rd	Carlsbad
15	Bay Blvd	E St to Stella St	Chula Vista
16	Beyer Way	Main St to City of San Diego city limits	Chula Vista
17	Bonita Rd	1st Ave to Interstate 805	Chula Vista
18	Broadway	C St to Main St	Chula Vista
19	E St	H St to Bonita Rd	Chula Vista
20	East H St	Hilltop Dr to Mount Miguel Rd	Chula Vista
21	H St	E St to Hilltop Dr	Chula Vista
22	Hunte Parkway	Proctor Valley R to Eastlake Parkway	Chula Vista
23	J St	Marina Parkway to Broadway	Chula Vista
24	L St	Bay Blvd to Interstate 805	Chula Vista
25	La Media Rd	Telegraph Canyon Rd to Main St	Chula Vista
26	Main St	West City limits to Eastlake Parkway	Chula Vista
27	Marina Parkway	H St to J St	Chula Vista
28	Olympic Parkway	Interstate 805 to Hunte Parkway	Chula Vista
29	Orange Ave	Palomar St to Interstate 805	Chula Vista

Table M.12 (continued)

Regional Arterials by Jurisdiction

Arterial	Limits	Jurisdiction	
30	Otay Lakes Rd	Bonita Rd to Wueste Rd	Chula Vista
31	Otay Valley Rd	Main St to East of State Route 125	Chula Vista
32	Palomar St	Bay Blvd to Orange Ave	Chula Vista
33	Paseo Ranchero (Heritage Rd)	East H St to City of San Diego city limits	Chula Vista
34	Proctor Valley Rd	Mt. Miguel Rd to Hunte Parkway	Chula Vista
35	Telegraph Canyon Rd	Interstate 805 to Otay Lakes Rd	Chula Vista
36	Willow St	Sweetwater Rd to Bonita Rd	Chula Vista
37	State Route 75	City of San Diego city limits to City of Imperial Beach city limits	Coronado
38	Via de la Valle	Highway 101 to Jimmy Durante Blvd	Del Mar
39	2nd St	Greenfield Dr to Main St	El Cajon
40	Avocado Ave	Main St to Chase Ave	El Cajon
41	Avocado Blvd	Chase Ave to Dewitt Court	El Cajon
42	Ballantyne St	Broadway to Main St	El Cajon
43	Bradley Ave	Cuyamaca St to County of San Diego limits	El Cajon
44	Broadway	State Route 67 to East Main St	El Cajon
45	Chase Ave	El Cajon Blvd to Rancho Valle Court	El Cajon
46	Cuyamaca St	City of Santee city limits to Marshall Ave	El Cajon
47	E Main St	Broadway to Lavala Lane	El Cajon
48	El Cajon Blvd	Chase Ave to West Main St	El Cajon
49	Fletcher Parkway	City of La Mesa city limits to State Route 67	El Cajon
50	Greenfield Dr	Ballantyne St to Interstate 8	El Cajon
51	Jamacha Rd	Main St to Grove Rd	El Cajon
52	Marshall Ave	Cuyamaca St to Fletcher Parkway	El Cajon
53	Marshall Ave	Fletcher Parkway to West Main St	El Cajon
54	Marshall Ave	West Main St to Washington Ave	El Cajon
55	Navajo Rd	State Route 125 to Fletcher Parkway	El Cajon
56	Washington Ave	El Cajon Blvd to Granite Hills Dr	El Cajon
57	West Main St	Interstate 8 to Marshall Ave	El Cajon
58	Coast Highway	City of Carlsbad to City of Solana Beach	Encinitas
59	El Camino Real	Olivenhain to Manchester Ave	Encinitas

Table M.12 (continued)

Regional Arterials by Jurisdiction

Arterial	Limits	Jurisdiction
60 Encinitas Blvd	Coast Highway 101 to El Camino Real	Encinitas
61 La Costa Ave	Coast Highway 101 to Interstate 5	Encinitas
62 Leucadia Blvd	Coast Highway 101 to El Camino Real	Encinitas
63 Manchester Ave	El Camino Real to Interstate 5	Encinitas
64 Olivenhain Rd	El Camino Real to Los Pinos Circle	Encinitas
65 Barham Dr	City of San Marcos city limits to Mission Rd	Escondido
66 Centre City Parkway	Country Club Lane (Interstate 15) to South Escondido Blvd/South Centre City Parkway (Interstate 15)	Escondido
67 Citracado Parkway	Centre City Parkway to State Route 78	Escondido
68 East Valley Parkway	Broadway to Valley Center Rd	Escondido
69 East Via Rancho Parkway/Bear Valley Parkway	East Valley Parkway to Sunset Dr	Escondido
70 El Norte Parkway	Nordahl Rd to East Valley Parkway	Escondido
71 El Norte Parkway	Woodland Parkway to Rees Rd	Escondido
72 Felicita/17th Ave	Interstate 15 to State Route 78	Escondido
73 Grand Ave/2nd Ave/Valley Blvd	West Valley Parkway to East Valley Parkway	Escondido
74 Hale Ave	Washington Ave to Interstate 15	Escondido
75 Lincoln/Ash Parkway	Broadway to Washington Ave	Escondido
76 Mission Ave	Andreason Dr to Centre City Parkway	Escondido
77 Mission Rd	Barham Dr to Andreason Dr	Escondido
78 Via Rancho Parkway	Del Dios Highway to Sunset Dr	Escondido
79 Washington Ave	Mission Rd to East Valley Parkway	Escondido
80 West Valley Parkway	Claudan Rd to Broadway	Escondido
81 Valley Center Rd	East Valley Pkwy to County of San Diego limits	
82 State Route 75	City of Coronado city limits to City of San Diego city limits	Imperial Beach
83 70th St	University Ave to Colony Rd	La Mesa
84 70th St	Saranac St to Interstate 8	La Mesa
85 El Cajon Blvd	73rd St to Interstate 8	La Mesa
86 Fletcher Parkway	Interstate 8 to City of El Cajon city limits	La Mesa
87 Grossmont Center Dr	Interstate 8 to Fletcher Parkway	La Mesa
88 Jackson Dr	La Mesa Blvd to North City limits	La Mesa

Table M.12 (continued)

Regional Arterials by Jurisdiction

Arterial	Limits	Jurisdiction
89 La Mesa Blvd	University Ave to Interstate 8	La Mesa
90 Lake Murray	Interstate 8 to Dallas St	La Mesa
91 Massachusetts Ave	State Route 94 to University Ave	La Mesa
92 Spring St	Interstate 8 to State Route 125	La Mesa
93 University Ave	69th St to La Mesa Blvd	La Mesa
94 Broadway	Spring St to Lemon Grove Ave	Lemon Grove
95 College Ave	Livingston St to Federal Blvd	Lemon Grove
96 Federal Blvd	College Ave to State Route 94	Lemon Grove
97 Lemon Grove Ave	Viewcrest Dr to State Route 94	Lemon Grove
98 Massachusetts Ave	Broadway to State Route 94	Lemon Grove
99 Massachusetts Ave	Lemon Grove Ave to Broadway	Lemon Grove
100 Sweetwater Rd	Broadway to Troy St	Lemon Grove
101 30th St	National City Blvd to 2nd St	National City
102 Euclid Ave	Cervantes Ave to Sweetwater Rd	National City
103 Harbor Dr	City of San Diego city limits to Interstate 5	National City
104 National City Blvd	Division St to 30th St	National City
105 Palm Ave	Interstate 805 to 18th St	National City
106 Paradise Valley Rd	8th St to Plaza Blvd	National City
107 Plaza Blvd	National City Blvd to 8th St	National City
108 Sweetwater Rd	2nd St to Plaza Bonita Center Way	National City
109 Coast Highway	Interstate 5 to Eaton St	Oceanside
110 College Blvd	North River Rd to City of Carlsbad city limits	Oceanside
111 El Camino Real	Douglas Dr to State Route 78	Oceanside
112 Melrose Dr	State Route 76 to W. Bobier Drive	Oceanside
113 Mission Ave	Coast Highway to Frazee Rd	Oceanside
114 North River Rd	Douglas Dr to State Route 76	Oceanside
115 North Santa Fe Ave	State Route 76 to Melrose Dr	Oceanside
116 Oceanside Blvd	Coast Highway to Melrose Dr	Oceanside
117 Rancho del Oro Dr	State Route 78 to State Route 76	Oceanside
118 Vandegrift Blvd	North River Rd to Camp Pendleton	Oceanside
119 West Vista Way	Jefferson St to Thunder Dr	Oceanside

Table M.12 (continued)**Regional Arterials by Jurisdiction**

Arterial	Limits	Jurisdiction
120 Camino del Norte	World Trade Dr to Pomerado Rd	Poway
121 Community Rd	Twin Peaks Rd to Scripps Poway Parkway	Poway
122 Espola Rd	Summerfield Lane to Poway Rd	Poway
123 Pomerado Rd	Stonemill Dr to Gateway Park Rd	Poway
124 Poway Rd	Springhurst Dr to State Route 67	Poway
125 Scripps Poway Parkway	Springbrook Dr to Sycamore Canyon Rd	Poway
126 Ted Williams Parkway	Pomerado Rd to Twin Peaks Rd	Poway
127 Twin Peaks Rd	Pomerado Rd to Espola Rd	Poway
128 1st Ave	Harbor Dr to Interstate 5	San Diego City
129 4th Ave	Market St to Washington St	San Diego City
130 5th Ave	Market St to Washington St	San Diego City
131 6th Ave	Ash St to State Route 163	San Diego City
132 10th Ave	State Route 163 to Park Blvd	San Diego City
133 11th Ave	G St to State Route 163	San Diego City
134 28th St	Interstate 5 to Harbor Dr	San Diego City
135 32nd St	Harbor Dr to Wabash Blvd	San Diego City
136 43rd St	Meade Ave to Thorn St	San Diego City
137 47th St	Fairmont Ave to Interstate 805	San Diego City
138 54th St	Collwood Blvd to Euclid Ave	San Diego City
139 70th St	Colony Rd to Saranac St	San Diego City
140 A St	11th Ave to Kettner Blvd	San Diego City
141 Adams Ave	Park Blvd to Interstate 15	San Diego City
142 Aero Dr	Heritage Rd to State Route 905	San Diego City
143 Airway Rd	Caliente Ave to State Route 125	San Diego City
144 Ash St	Harbor Dr to 10th Ave	San Diego City
145 Auto Circle	Camino del Rio North to Camino del Rio South	San Diego City
146 Balboa Ave	Mission Bay Dr to Interstate 15	San Diego City
147 Balboa Ave	Grand Ave to Garnet Ave	San Diego City
148 Barnett Ave	Lytton St to Pacific Highway	San Diego City
149 Bernardo Center Dr	Dove Canyon Rd to Interstate 15	San Diego City
150 Beyer Blvd	City of Chula Vista city limits to East Beyer Blvd	San Diego City

Table M.12 (continued)**Regional Arterials by Jurisdiction**

Arterial	Limits	Jurisdiction
151 Beyer Way	4th Ave to Picador Blvd	San Diego City
152 Britannia Blvd	Otay Mesa Rd to Siempre Viva Rd	San Diego City
153 Black Mountain Rd	Carmel Valley Rd to Carroll Canyon Rd	San Diego City
154 Broadway	Harbor Dr to 11th Ave	San Diego City
155 Cabrillo Memorial Dr	Cochran St to Cabrillo National Monument	San Diego City
156 Camino del Norte	Rancho Bernardo Rd to World Trade Dr	San Diego City
157 Camino de la Reina	Mission Center Rd to Qualcomm Wy	San Diego City
158 Camino del Rio North	Mission Center Rd to Mission Gorge Rd	San Diego City
159 Camino de Rio West	Rosecrans St to Interstate 8	San Diego City
160 Camino Ruiz	Mira Mesa Blvd to Miramar Rd	San Diego City
161 Camino Ruiz	State Route 56 to Camino del Norte	San Diego City
162 Camino Santa Fe	Sorrento Valley Blvd to Miramar Rd	San Diego City
163 Canon St	Rosecrans St to Catalina Blvd	San Diego City
164 Carmel Mountain Rd	Camino del Norte to Rancho Peñasquitos Blvd	San Diego City
165 Carmel Mountain Rd	Sorrento Valley Rd to El Camino Real	San Diego City
166 Carmel Valley Rd	Del Mar Heights Rd to Dove Canyon Rd	San Diego City
167 Carmel Valley Rd	Del Mar Heights Rd to Dove Canyon Rd	San Diego City
168 Catalina Blvd	Canon St to Cochran St	San Diego City
169 Clairemont Dr	Clairemont Mesa Blvd to W Mission Bay Dr	San Diego City
170 Clairemont Mesa Blvd	Interstate 15 to Regents Rd	San Diego City
171 College Ave	Navajo Rd to Livingston St	San Diego City
172 Collwood Blvd	Montezuma Rd to 54th St	San Diego City
173 Convoy St	Linda Vista Rd to State Route 52	San Diego City
174 Cesar E. Chavez Parkway	Interstate 5 to Harbor Dr	San Diego City
175 Dairy Mart Rd	State Route 905 to Interstate 5	San Diego City
176 Del Mar Heights Rd	Interstate 5 to Carmel Valley Rd	San Diego City
177 El Cajon Blvd	Park Blvd to 73rd St	San Diego City
178 El Camino Real	Via de la Valle to Carmel Mountain Rd	San Diego City
179 Euclid Ave	54th St to Cervantes Ave	San Diego City
180 F St	State Route 94 to 10th Ave	San Diego City
181 Fairmount Ave	Mission Gorge Rd to 47th St	San Diego City

Table M.12 (continued)**Regional Arterials by Jurisdiction**

Arterial	Limits	Jurisdiction
182 Friars Rd	Sea World Dr to Mission Gorge Rd	San Diego City
183 Front St	Interstate 5 to Market St	San Diego City
184 G St	State Route 94 to 10th Ave	San Diego City
185 Garnet Ave	Balboa Ave to Interstate 5	San Diego City
186 Genesee Ave	North Torrey Pines Rd to State Route 163	San Diego City
187 Gilman Dr	La Jolla Village Dr to Interstate 5	San Diego City
188 Girard Ave	Pearly St to Torrey Pines Rd	San Diego City
189 Grand Ave	Mission Blvd to Mission Bay Dr	San Diego City
190 Governor Dr	Interstate 805 to Regents Rd	San Diego City
191 Grape St	North Harbor Dr to Interstate 5	San Diego City
192 Harbor Dr	Pacific Highway to City of National City	San Diego City
193 Hawthorn St	Interstate 5 to North Harbor Dr	San Diego City
194 Heritage Rd	Otay Mesa Rd to Siempre Viva Rd	San Diego City
195 India St	Laurel St to Interstate 5	San Diego City
196 Imperial Ave	Park Blvd to Lemon Grove Ave	San Diego City
197 Ingraham St	W Mission Bay Dr to Grand Ave	San Diego City
198 Jackson Dr	Mission Gorge Rd to Dallas Rd	San Diego City
199 Kearny Villa Rd	Carrol Canyon Rd to Interstate 805	San Diego City
200 Kettner Blvd	Interstate 5 to India St	San Diego City
201 La Jolla Blvd	Pearl St to Turquoise St	San Diego City
202 La Jolla Parkway	Torrey Pines Rd to Interstate 5	San Diego City
203 La Jolla Shores Dr	Torrey Pines Rd to North Torrey Pines Rd	San Diego City
204 La Jolla Village Dr	North Torrey Pines Rd to Interstate 805	San Diego City
205 La Media Rd	Lone Star Rd to Siempre Viva Rd	San Diego City
206 Lake Murray Blvd	Dallas St to Navajo Rd	San Diego City
207 Laurel St	North Harbor Dr to India St	San Diego City
208 Lemon Grove Ave	Lisbon St to Viewcrest Dr	San Diego City
209 Linda Vista Rd	Morena Blvd to Convoy St	San Diego City
210 Lone Star Rd	La Media Rd to City of San Diego/County Boundary	San Diego City
211 Lytton St	Rosecrans St to Barnett Ave	San Diego City
212 Market St	Harbor Dr to Euclid Ave	San Diego City

Table M.12 (continued)

Regional Arterials by Jurisdiction

Arterial	Limits	Jurisdiction	
213	Mercy Rd	Black Mountain Rd to Interstate 15	San Diego City
214	Mesa College Dr	Interstate 805 to Armstrong Dr	San Diego City
215	Midway Dr	West Point Loma Blvd to Barnett Ave	San Diego City
216	Mira Mesa Blvd	Interstate 805 to Interstate 15	San Diego City
217	Miramar Rd	Interstate 805 to Interstate 15	San Diego City
218	Mission Blvd	Loring St to West Mission Bay Dr	San Diego City
219	Mission Bay Dr	Grand Av to Interstate 5	San Diego City
220	Mission Center Rd	Camino del Rio North to Friars Rd	San Diego City
221	Mission Gorge Rd	Fairmont Ave to Highridge Rd	San Diego City
222	Montezuma Rd	Fairmount Ave to El Cajon Blvd	San Diego City
223	Morena Blvd	Balboa Ave to W Morena Blvd (north split)	San Diego City
224	Morena Blvd	W Morena Blvd (south split) to Taylor St	San Diego City
225	Navajo Rd	Waring Rd to State Route 125	San Diego City
226	Nimitz Blvd	Interstate 8 to Harbor Dr	San Diego City
227	Nobel Dr	Interstate 5 to Miramar Rd	San Diego City
228	Normal St	Polk Ave to Park Blvd	San Diego City
229	North Harbor Dr	Rosecrans St to Grape St	San Diego City
230	North Torrey Pines Rd (S-21)	Carmel Valley Rd to La Jolla Village Dr	San Diego City
231	Ocean View Hills Parkway	Interstate 805 to Dennery Rd to Otay Mesa Rd	San Diego City
232	Otay Mesa Rd	Ocean View Hills Pkwy to City of San Diego/County Boundary	San Diego City
233	Otay Valley Rd	Heritage Rd to Datsono Rd	San Diego City
234	Pacific Highway	Sea World Dr to Harbor Dr	San Diego City
235	Palm Ave	13th St to Dennery Rd	San Diego City
236	Paradise Valley Rd	Munda Rd to Meadowbrook Dr	San Diego City
237	Park Blvd	Imperial Ave to Adams Ave	San Diego City
238	Pearl St	La Jolla Blvd to Girard Ave	San Diego City
239	Picador Blvd	Beyer Wy to Interstate 905	San Diego City
240	Pomerado Rd	Interstate 15 (north) to Bernardo Heights Pkwy	San Diego City
241	Pomerado Rd	Stonemill Dr to Interstate 15 (south)	San Diego City
242	Poway Rd	Interstate 15 to Springhurst Dr	San Diego City

Table M.12 (continued)**Regional Arterials by Jurisdiction**

Arterial	Limits	Jurisdiction
243 Qualcomm Way	Intestate 8 to Friars Rd	San Diego City
244 Rancho Bernardo Rd	Camino Del Sur to Summerfield Lane	San Diego City
245 Rancho Carmel Dr	Carmel Mountain Rd to Ted Williams Parkway	San Diego City
246 Rancho Peñasquitos Blvd	State Route 56 to Interstate 15	San Diego City
247 Regents Rd	Genesee Ave to Rose Canyon	San Diego City
248 Regents Rd	Rose Canyon to Clairemont Mesa Blvd	San Diego City
249 Rosecrans St	Pacific Hwy to Canon St	San Diego City
250 Ruffin Rd	Kearny Villa Rd to Aero Dr	San Diego City
251 Sabre Springs Parkway	Ted Williams Parkway to Poway Rd	San Diego City
252 San Diego Mission Rd	Mission Village Dr to Fairmount Ave	San Diego City
253 San Ysidro Blvd	Dairy Mart Rd to East Beyer Blvd	San Diego City
254 Scripps Poway Parkway	Interstate 15 to Springbrook Dr	San Diego City
255 Sea World Dr	West Mission Bay Dr to Morena Blvd	San Diego City
256 Siempre Viva Rd	Heritage Rd to Enrico Fermi Dr	San Diego City
257 Sorrento Valley Blvd	Sorrento Valley Rd to Camino Santa Fe	San Diego City
258 Sorrento Valley Rd	Carmel Mountain Rd to Sorrento Valley Blvd	San Diego City
259 Sports Arena Blvd	Interstate 8 to Rosecrans St	San Diego City
260 Sunset Cliffs Blvd	Interstate 8 to West Mission Bay Dr	San Diego City
261 Taylor St	Pacific Hwy to Morena Blvd	San Diego City
262 Ted Williams Parkway	Interstate 15 to Pomerado Rd	San Diego City
263 Texas St	Interstate 8 to University Ave	San Diego City
264 Torrey Pines Rd	Girard Ave to La Jolla Parkway	San Diego City
265 Twain Ave	Fairmount Ave to Mission Gorge Rd	San Diego City
266 University Ave	State Route 163 to City of La Mesa	San Diego City
267 Valencia Parkway	Market St to Imperial Ave	San Diego City
268 Via de la Valle	Jimmy Durante Blvd to El Camino Real	San Diego City
269 Vista Sorrento Parkway	Mira Mesa Blvd to Carmel Mountain Rd	San Diego City
270 Washington St	Pacific Highway to Park Blvd	San Diego City
271 Waring Rd	College Ave to Interstate 8	San Diego City
272 West Bernardo Dr	Interstate 15 to Bernardo Center Dr	San Diego City
273 West Mission Bay Dr	Mission Blvd to Interstate 8	San Diego City

Table M.12 (continued)**Regional Arterials by Jurisdiction**

Arterial	Limits	Jurisdiction
274 West Morena Blvd	Morena Blvd (north split) to Morena Blvd (south split)	San Diego City
275 Woodman St	State Route 54 to Imperial Ave	San Diego City
276 Alpine Blvd	Interstate 8/Dunbar Lane to Interstate 8/Willows Rd	San Diego County
277 Ashwood St	Lake Jennings Park Rd to Willow Rd/Wildcat Canyon Rd	San Diego County
278 Avocado Blvd	Dewitt Court to State Route 94	San Diego County
279 Bear Valley Parkway	City of Escondido (north) city limits to City of Escondido (south) city limits	San Diego County
280 Bonita Rd	Interstate 805 to San Miguel Rd	San Diego County
281 Borrego Springs/Yaqui Pass Rd (S-3)	Palm Canyon Dr (S-22) to State Route 78	San Diego County
282 Bradley Ave	Wing Ave to Winter Garden Blvd	San Diego County
283 Buckman Springs/Sunrise Highway (S-1)	State Route 94 to State Route 79	San Diego County
284 Buena Creek Rd	South Santa Fe Ave to Twin Oaks Valley Rd	San Diego County
285 Camino del Norte	Rancho Bernardo Rd to City of San Diego city limits	San Diego County
286 Campo Rd	Spring St to Sweetwater Springs/State Route 54	San Diego County
287 Citracado Parkway	Greenwood Place to Interstate 15	San Diego County
288 Cole Grade Rd	State Route 76 to Valley Center Rd	San Diego County
289 Deer Springs Rd	Twin Oaks Valley Rd to Interstate 15	San Diego County
290 Dehesa Rd	Jamacha Rd to Harbison Canyon Rd	San Diego County
291 Dehesa Rd*	Harbison Canyon Rd to Sycuan Rd	San Diego County
292 Del Dios Highway	Via Rancho Parkway to Paseo de Delicias	San Diego County
293 Dye Rd	State Route 67 to San Vicente Rd	San Diego County
294 Dye St	State Route 67 to Dye Rd	San Diego County
295 East Vista Way	State Route 76 to City of Vista city limits	San Diego County
296 El Norte Parkway	Rees Rd to Nordahl Rd	San Diego County
297 Euclid Ave	City of National City limits to City of National City limits	San Diego County
298 Gamble Lane	Eucalyptus Ave to City of Escondido city limits	San Diego County
299 Gopher Canyon Rd	East Vista Way to Old Highway 395	San Diego County
300 Jamacha Rd	City of El Cajon city limits to State Route 94	San Diego County
301 Jamacha Rd	State Route 125 to State Route 94	San Diego County

Table M.12 (continued)**Regional Arterials by Jurisdiction**

Arterial	Limits	Jurisdiction	
302	Keyes Rd (Southern Traffic Bypass)	Dye Rd to State Route 78 (Julian Rd)	San Diego County
303	Lake Jennings Park Rd	State Route 67 to Interstate 8	San Diego County
304	Lake Wohlford Rd	Valley Center Rd (north) to Valley Center Rd (south)	San Diego County
305	Las Posas Rd	City of San Marcos city limits to Buena Creek Rd	San Diego County
306	Lone Star Rd	City of San Diego city limits to Siempre Viva Rd	San Diego County
307	Mapleview St	State Route 67 to Lake Jennings Rd	San Diego County
308	Mar Vista Drive	City of Oceanside city limits to City of Vista city limits	San Diego County
309	Melrose Dr	City of Oceanside city limits to City of Vista city limits	San Diego County
310	Mission Rd (S-13)	Interstate 15 to State Route 76	San Diego County
311	Mountain Meadow Rd	Interstate 15/Deer Springs Rd to Valley Center Rd	San Diego County
312	Montezuma Valley/Palm Canyon (S-22)	State Route 79 to Imperial County Line	San Diego County
313	Nordahl Rd	El Norte to City of San Marcos city limits	San Diego County
314	Old Highway 80	Buckman Springs Rd to Interstate 8 (In-ko-pah)	San Diego County
315	Old Highway 80	State Route 79 to Sunrise Highway	San Diego County
316	Old Highway 395/Champagne/ North Centre City	East Mission Rd to City of Escondido	San Diego County
317	Otay Lakes Rd	Wueste Rd to State Route 94	San Diego County
318	Otay Mesa Rd	City of San Diego city limits to Lone Star Rd	San Diego County
319	Pala Temecula Rd	State Route 76 to Riverside County limits	San Diego County
320	Paradise Valley Rd	City of San Diego city limits to Sweetwater Rd	San Diego County
321	Paseo Delicias	El Camino del Norte to Via de la Valle	San Diego County
322	Rancho Bernardo Rd	City of San Diego (west) city limits to City of San Diego (east) city limits	San Diego County
323	San Felipe Rd/Overland Route (S-2)	County Route S-22 to Imperial County Line	San Diego County
324	San Vicente Rd/10th St	State Route 67 (Main St) to Wildcat Canyon Rd	San Diego County
325	Scripps Poway Parkway	Sycamore Canyon Rd to State Route 67	San Diego County
326	Siempre Viva Rd	City of San Diego city limits to Lone Star Rd	San Diego County
327	South Santa Fe Ave	City of Vista city limits to City of San Marcos city limits	San Diego County
328	Sunrise Highway	State Route 79 to Interstate 8	San Diego County
329	Sweetwater Rd (Bonita)	Willow St to City of National City limits	San Diego County
330	Sweetwater Rd (Spring Valley)	Jamacha Blvd to Broadway	San Diego County

Table M.12 (continued)

Regional Arterials by Jurisdiction

Arterial	Limits	Jurisdiction
331 Sweetwater Springs Blvd	Jamacha Blvd to State Route 94	San Diego County
332 Valley Center Rd	State Route 76 to City of Escondido city limits	San Diego County
333 Valley Center New Northern E to W Rd	Cole Grade Rd to Old Highway 395	San Diego County
334 Via de la Valle	City of San Diego city limits to Paseo Delicias	San Diego County
335 Via Rancho Parkway	Del Dios Highway to City of Escondido city limits	San Diego County
336 Wildcat Canyon Rd*	Ashwood St to San Vicente Rd	San Diego County
337 Willow Glen Dr	Jamacha Rd to Dehesa Rd	San Diego County
338 Willows Rd	Interstate 8 to Viejas Casino	San Diego County
339 Winter Gardens Blvd	State Route 67 to 2nd St	San Diego County
340 Barham Dr	Twin Oaks Valley Rd to Los Amigos	San Marcos
341 Borden Rd	Las Posas Rd to Woodland Parkway	San Marcos
342 Buena Creek Rd	Twin Oaks Valley Rd to Sunny Vista Lane	San Marcos
343 Discovery St	San Marcos Blvd to Twin Oaks Valley Rd	San Marcos
344 Las Posas Rd	West San Marcos Blvd to North City Limits	San Marcos
345 Mission Rd	Pacific St to Barham Dr	San Marcos
346 San Elijo Rd	Twin Oaks Valley Rd to Rancho Santa Fe Rd	San Marcos
347 Rancho Santa Fe Rd	Mission Rd to Melrose Dr	San Marcos
348 San Marcos Blvd	Business Park Dr to Mission Rd	San Marcos
349 South Santa Fe Ave	Smilax Rd to Pacific St	San Marcos
350 Twin Oaks Valley Rd	Deer Springs Rd to Questhaven Rd	San Marcos
351 Woodland Parkway	Barham Dr to El Norte Parkway	San Marcos
352 Cuyamaca St	Mission Gorge Rd to City of El Cajon city limits	Santee
353 Magnolia Ave	Mast Blvd to Prospect Ave/State Route 67	Santee
354 Mast Blvd	State Route 52 to Magnolia Ave	Santee
355 Mission Gorge Rd	City of San Diego city limits to Magnolia Ave	Santee
356 Woodside Ave	Magnolia Ave to State Route 67	Santee
357 Coast Highway	City of Encinitas city limits to City of Del Mar city limits	Solana Beach
358 Lomas Santa Fe Ave	Interstate 5 to Coast Highway	Solana Beach
359 Bobier Dr	North Melrose Dr to East Vista Way (S-13)	Vista
360 Branding Iron Dr	South Melrose Dr to State Route 78	Vista

Table M.12 (continued)

Regional Arterials by Jurisdiction

Arterial	Limits	Jurisdiction
361 Business Park Dr	Sycamore Ave to Palomar Airport Dr/San Marcos Blvd	Vista
362 Cannon Rd (Mar Vista Dr)	County of San Diego limits to State Route 78	Vista
363 Civic Center Dr	State Route 78 to East Vista Way (S-13)	Vista
364 East Vista Way	Civic Center Dr to County of San Diego limits	Vista
365 Emerald Dr	Hacienda Dr to State Route 78	Vista
366 Emerald Dr	State Route 78 to Olive Ave	Vista
367 Hacienda Dr	City of Oceanside city limits to Vista Village Dr	Vista
368 North Melrose Dr	State Route 78 to Bobier Dr	Vista
369 North Santa Fe Ave (S-14)	Main St to North Melrose Dr	Vista
370 Olive Ave	Emerald Dr to Vista Village Dr (S-13)	Vista
371 Shadowridge Dr	City of Oceanside city limits/Cannon Rd to Sycamore Ave	Vista
372 South Melrose Dr	City of Carlsbad to State Route 78	Vista
373 South Santa Fe Ave	Main St to County of San Diego	Vista
374 Sycamore Ave	South Santa Fe Ave to South Melrose Dr	Vista
375 Thibodo Rd	Mar Vista Dr (Cannon Rd) to Sycamore Ave	Vista
376 Vista Village Dr	State Route 78 to Escondido Ave	Vista
377 Vista Village Dr (S-13)	Hacienda Dr to State Route 78	Vista
378 West Vista Way	Thunder Dr to Vista Village Dr	Vista

* Included in the RAS contingent upon being designated as a four-lane arterial by the County of San Diego.



Figure M.1
Regional Arterial System
 October 2019

— Freeways and Highways
 — Regional Arterials

MILES
 0 3 6
 KILOMETERS
 0 4 8



Federal Guidance

The 2019 Federal RTP considers projects and strategies that support the ten areas described in 23 U.S. §134(h). Many of these topics have been incorporated into the evaluation criteria as highlighted in the sections below. Additional consideration is included in the performance measures which are discussed in Appendix N and federal performance management measures detailed in Appendix D.

Economic Vitality

Each project category includes a project cost-effectiveness criterion. The transit, highway, and connector cost-effectiveness criterion compare the project cost to the monetized benefits/dis-benefits of: fuel costs, greenhouse gas emissions, smog-forming pollutants, physical activity, safety, generalized delay costs (highway and connectors), as well as the value of jobs created by the construction of the project.

Transportation Safety

The evaluation of transportation safety is included in the Highway Corridor criteria where the percentage of collisions is compared against the statewide average. This approach is consistent with the California Strategic Highway Safety Plan. The value of the reduction or increase in injury and fatal accidents is also included in the cost-effectiveness criterion in the Highway Corridor, Transit Services, Freeway and HOV Connectors criteria, and is also incorporated into the Rail Grade Separations criteria.

Transportation Security

Transportation security is specifically addressed under the evaluation of proximity analysis of hazard areas (dam failure, earthquake, flood, landslide, liquefaction, tsunami, and wildfire), weighted by population and employment. This criterion is included under both the Highway Corridor and Transit Services project evaluation.

Accessibility and Mobility

Accessibility and mobility are incorporated into several project evaluation criteria. Accessibility to jobs, school, recreational areas and beach, and Indian reservations is evaluated. Travel time savings is also included in the highway and connector criteria. The active transportation and transit criteria evaluate the system wide increase in the respective active transportation or transit trips resulting from the project.

Environment and Quality of Life

Preservation of the environment is incorporated into a number of criteria including reduction in greenhouse gas and smog forming pollutants, and minimizing habitat and residential impacts. The value of greenhouse gas and smog forming pollutants emissions are also monetized and included in the cost-effectiveness criterion.

The criteria also awards points to projects which serve smart growth areas as identified in the Regional Comprehensive Plan. For the first time, a specific measure for public health was integrated into the evaluation criteria, which measures the increase in time engaged in moderate transportation-related physical activity. Access to jobs and amenities, cleaner air and preserved habitats, travel time savings, and physical activity all help to improve the quality of life in the San Diego region.

Integration and Connectivity

The project evaluation criteria evaluates enhanced integration of the transportation system for both people and freight. A goods movement criterion quantifies the total travel time savings for medium and heavy trucks for highway and freeway connector projects.

Multimodal integration of the transportation system for people is also evaluated by the project's provision of access to other transit, highway, rail grade separation, or active transportation projects.

Promote efficient System Management

The 2019 Federal RTP strives to provide an efficient transportation system for the movement of people and goods. Criteria are included which quantify the travel time savings for people and goods and also award points for highway projects which include Managed Lanes, which can be optimally operated to serve transit, carpools, and, when capacity is available, single occupant vehicles (for a fee). The 2019 Federal RTP also funds projects and programs including Transportation Systems Management and other strategies to assure efficient management and operation of the transportation system. Additional information and funding levels for these and all transportation projects can be viewed in Chapter 3.

Preserve Existing Transportation System

The 2019 Federal RTP funds projects and programs to assure the maintenance and operation of the transportation system. Additional information and funding levels for these and all transportation projects can be viewed in Chapter 3.

Improve Resiliency and Reliability

The 2019 Federal RTP includes evaluation of proximity analysis of hazard areas (dam failure, earthquake, flood, landslide, liquefaction, tsunami, and wildfire), weighted by population and employment. This criterion awards points to highway and transit projects which provide evacuation access to hazard areas. The evaluation criteria also includes points to highway, transit, connector, and rail grade separation projects which reduce greenhouse gas and smog forming pollutants and minimize habitat impacts. Additional information on regional efforts to improve the resiliency and reliability of transportation and reduce and mitigate stormwater impacts of surface transportation can be viewed in Appendix I.

Enhance Travel and Tourism

With miles of beaches, theme parks, multiple sports venues, and a temperate climate the San Diego region is a popular visitor destination. Criteria are included which award points for projects which support access to recreational areas and beaches and Indian reservations, some which contain gaming facilities, shopping, and entertainment venues. Additional information on travel and tourism can be viewed in Appendix Q.