

El Dorado County Traffic Impact Mitigation (TIM) Fee Program Update Nexus & Funding Model

Board of Supervisors Meeting: October 20, 2020

NOTE:

All data entries in BLUE are copied from external sources (see source in each table).

All other data is generated internally by the model.

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Section 1

New Development and Equivalent Dwelling Unit Projections

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Table 1: Existing and Future Land Use

Land Use		2018			2040			Growth, 2018-2040		
		House-holds	Dwelling Units	Share	House-holds	Dwelling Units	Share	House-holds	Dwelling Units	Share
Residential										
Single Family		48,778	54,739	89%	56,630	63,127	89%	7,852	8,388	85%
Multi-Family		6,143	6,666	11%	7,457	8,101	11%	1,314	1,435	15%
Total		54,921	61,404	100%	64,087	71,228	100%	9,166	9,822	100%
Nonresidential										
	Sq. Ft. per Job	Jobs	Building Sq. Ft.	Share	Jobs	Building Sq. Ft.	Share	Jobs	Building Sq. Ft.	Share
Commercial	500	8,653	4,327	26%	10,140	5,071	26%	1,487	744	29%
Office	275	16,195	4,454	27%	18,758	5,159	27%	2,563	705	28%
Medical	312	305	95	1%	1,270	396	2%	965	301	12%
Industrial / Other ¹	1,000	7,769	7,769	47%	8,549	8,549	45%	780	780	31%
Total		32,922	16,644	100%	38,717	19,175	100%	5,795	2,529	100%

Note: Negative growth results by traffic analysis zone are excluded assuming that growth does not occur on redeveloped parcels resulting in a fee credit.

¹ Includes "manufacturing/other" and "education" job categories in travel demand model.

Sources: Kimley-Horn and Associates, Inc., (land use data for travel demand model based on Matt Kowta, BAE Associates memorandum to Natalie Porter, El Dorado County, March 17, 2020).

Table 2: Growth Projections by Fee Zone (2018-2040)

	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6	Zone 7	Zone 8	Total
Residential	<i>(dwelling units)</i>								
Single Family									
Not Restricted	48	1,549	695	233	136	70	64	4,911	7,708
Age Restricted	-	50	50	-	-	-	-	580	680
Subtotal	48	1,599	745	233	136	70	64	5,491	8,388
Multi-family									
Not Restricted	-	755	64	-	2	-	-	1	823
Age Restricted	-	100	200	-	-	-	-	312	612
Subtotal	-	855	264	-	2	-	-	313	1,435
Total	48	2,454	1,009	233	139	70	64	5,804	9,822
Nonresidential	<i>(1,000 sq. ft.)</i>								
Commercial	-	304	144	4	97	-	-	195	744
Office	-	40	67	2	52	-	-	544	705
Medical	-	163	42	-	26	-	-	70	301
Industrial / Other	-	135	59	28	142	-	-	416	780
Total	-	642	312	34	317	-	-	1,224	2,529

Sources: Kimley-Horn and Associates, Inc. (land use inputs to El Dorado County travel demand model); Table 1 (employment densities).

Table 3: Land Use Categories, Trip Generation Rates & Preliminary EDU Factors

Land Use	Institute for Transportation Engineers Category	Unit	Trip Rate ¹	New Trip Ends	Average Trip Length ²	New VMT ³ per Unit	Preliminary EDU Rate ⁴
Residential							
SFD Not Restricted							
Less than 1,000 SqFt	210: Single Family Detached	Dwelling Unit	EDU rates adjusted for persons per household by unit size.				0.82
1,000 to 1,499 SqFt	210: Single Family Detached	Dwelling Unit					0.89
1,500 to 1,999 SqFt	210: Single Family Detached	Dwelling Unit					0.95
2,000 to 2,999 SqFt	210: Single Family Detached	Dwelling Unit	0.99	100%	5.0	4.95	1.00
3,000 to 3,999 SqFt	210: Single Family Detached	Dwelling Unit	EDU rates adjusted for persons per household by unit size.				1.06
4,000 SqFt or more	210: Single Family Detached	Dwelling Unit					1.10
MFD Not Restricted	220: Apartment	Dwelling Unit	0.56	100%	5.0	2.80	0.57
SFD Age Restricted	251: Senior Adult - Detached	Dwelling Unit	0.30	100%	5.0	1.50	0.30
MFD Age Restricted	252: Senior Adult - Attached	Dwelling Unit	0.26	100%	5.0	1.30	0.26
Nonresidential							
Commercial	820: Shopping Center	1,000 SqFt	6.51	47%	2.5	7.65	1.55
Hotel / Motel / B&B	320: Motel	Room	0.38	58%	6.4	1.41	0.28
Church	560: Church	1,000 SqFt	0.49	64%	3.9	1.22	0.25
Office	710: General Office	1,000 SqFt	1.15	77%	5.1	4.52	0.91
Medical	720: Medical-Dental Office	1,000 SqFt	3.46	60%	5.1	10.59	2.14
Industrial / Other	110: General Light Industrial	1,000 SqFt	0.63	79%	5.1	2.54	0.51
<p>¹ Rates for evening peak hour. Commercial trip rate based on a 50,000 square foot building.</p> <p>² Average trip length reflects trip length within El Dorado County. Factors are similar to those used by other Sacramento region communities for transportation planning.</p> <p>³ VMT = vehicle miles travelled.</p> <p>⁴ The preliminary equivalent dwelling unit (EDU) rate is new VMT normalized so one single family unit, 2,000 to 2,999 square feet in size, is 1.00 EDU.</p> <p>Sources: Institute of Transportation Engineers (ITE), <i>Trip Generation 10th Edition</i>, Sept. 2017 (for trip rates); San Diego Association of Governments, <i>Brief Guide of Vehicular Trip Generation Rates</i>, April 2002 (for new trip ends factor); John P. Long, P.E. (for average trip length); John P. Long, P.E., memorandum to Rafael Martinez, El Dorado County Director of Transportation, August 4, 2020 (see Board of Supervisors agenda, August 25, 2020, item, 41) (for single family dwelling EDU rates by dwelling unit size).</p>							

Table 4: Final Equivalent Dwelling Units (EDU) Factors

Land Use	Units	Preliminary EDU Rates and 2015 EDUs			Revised EDU Rates Based on Local Serving Employment				Final EDU Rates and 2015 EDUs	
		2015 Development	Preliminary EDU Rate ¹	2015 Preliminary EDU	Local Serving Employment Share	EDU Shift For Local Serving Business ²	2015 Revised EDU	Revised EDU Rate ¹	Final EDU Rate ^{1,3}	2015 Final EDU
Residential										
SFD Not Restricted	Dwelling Units	54,739	1.00	54,739	NA	9,413	64,152	1.17	1.00	54,739
MFD Not Restricted	Dwelling Units	6,666	0.57	3,799	NA	653	4,452	0.67	0.57	3,799
SFD Age Restricted	Dwelling Units	NA	0.30	NA	NA	NA	NA	0.35	0.30	NA
MFD Age Restricted	Dwelling Units	NA	0.26	NA	NA	NA	NA	0.31	0.26	NA
Total	Dwelling Units	61,404		58,538	NA	10,066	68,604			58,538
Nonresidential										
Commercial	1,000 SqFt	4,327	1.55	6,706	79%	(5,298)	1,408	0.33	0.28	1,211
Hotel / Motel / B&B	Rooms	NA	0.28	NA	NA	NA	NA	NA	0.05	NA
Church	1,000 SqFt	NA	0.25	NA	NA	NA	NA	NA	0.05	NA
Office / Medical	1,000 SqFt	4,549	0.94	4,256	72%	(3,064)	1,192	0.26	0.22	1,001
Office	1,000 SqFt	4,454	0.91	NA	NA	NA	NA	NA	NA	NA
Medical	1,000 SqFt	95	2.14	NA	NA	NA	NA	NA	NA	NA
Industrial / Other	1,000 SqFt	7,769	0.51	3,962	43%	(1,704)	2,258	0.29	0.25	1,942
Total	1,000 SqFt	16,644		14,924	67%	(10,066)	4,858			4,154
Total Equivalent Dwelling Units (EDU)				73,462		-	73,462			62,692

Note: Preliminary EDU rates for land use categories without development data (age-restricted housing, hotel / motel / B&B, and church) are adjusted based on the final versus preliminary rate for the related land use category, e.g. age-restricted housing rates are adjusted based on the change in the not restricted housing rates, and the two nonresidential rates are adjusted based the change in the commercial rate.

¹ EDU rate for Office / Medical is the average for the Office and Medical categories, weighted by amount of 2015 development.

² Shift local serving share of nonresidential EDUs to residential EDUs. The remaining nonresidential EDUs are associated with export-based businesses (providing products and services outside the El Dorado County western slope unincorporated area).

³ Final EDU rates are converted from revised EDU rates so that one single family dwelling equals 1.0 EDU.

Sources: U.S. Census Bureau, On The Map (<http://onthemap.ces.census.gov>) (2017 employment data); Urban Economics (local employment share); Tables 1 and 3.

Table 5: New Equivalent Dwelling Units (2018-2040)

	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6	Zone 7	Zone 8	Total
Residential									
SFD Not Restricted	48	1,549	695	233	136	70	64	4,911	7,708
MFD Not Restricted	-	430	36	-	1	-	-	1	469
SFD Age Restricted	-	15	15	-	-	-	-	174	204
MFD Age Restricted	-	26	52	-	-	-	-	81	159
Subtotal	48	2,021	798	233	138	70	64	5,167	8,540
Nonresidential									
Commercial	-	85	40	1	27	-	-	54	208
Office / Medical	-	45	24	0	17	-	-	135	221
Industrial	-	34	15	7	36	-	-	104	195
Subtotal	-	164	79	9	80	-	-	293	624
Total EDU, 2015-2035	48	2,184	877	242	217	70	64	5,461	9,164
Total EDU, 2015									62,692
Total EDU, 2035									71,856
Growth Share									12.75%

Sources: Tables 2 and 4.

Section 2

TIM Fee CIP Cost Estimates and Cost Allocation By Zone

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Table 6: Bridge Replacement Projects

River	Crossing	Cost
Indian Creek	Green Valley Rd	\$ 5,663,000
Mound Springs Creek	Green Valley Rd	6,225,000
Weber Creek	Green Valley Rd	11,999,000
South Fork American River	Salmon Falls Rd	25,000,000
Weber Creek	Cedar Ravine Rd	3,248,000
Carson Creek	White Rock Rd	5,050,000
North Fork Cosumnes River	Mt. Aukum Rd	5,050,000
North Fork Cosumnes River	Bucks Bar Rd	8,658,000
South Fork Weber Creek	Newtown Rd	5,846,000
New York Creek	Malcolm Dixon Rd	<u>4,500,000</u>
Total		\$ 81,239,000
New Development Share¹		<u>11.47%</u>
TIM Fee Program Share		\$ 9,318,000

¹ Development share based on federal funding for 88.53 percent of total costs. Developer share is less than could be allocated based on growth as a share of total development at the planning horizon (see Table 5).

Sources: County of El Dorado.

Table 7: Intersection Improvements

Type of Deficiency	Cost per Intersection¹	New Development Share²	New Development Cost per Intersection	Number of Intersections	Cost
Tier 1 - Existing Deficiency	\$ 2,200,000	12.75%	\$ 281,000	2	\$ 562,000
Tier 2 - Future Deficiency	2,200,000	100.00%	2,200,000	18	39,600,000
TIM Fee Program Share					\$ 40,162,000

¹ Based on \$350,000 for signal equipment plus \$1,850,000 for channelization and other costs. Includes intelligent transportation systems (ITS).

² For existing deficiencies, TIM Fee program share is equal to new development as a share of total development at the planning horizon (see Table 5).

Sources: County of El Dorado; Table 5.

Table 8: Transit Capital Projects

Capital Project	Source	No.	Unit Cost	Total Cost	New Development Share ¹	TIM Fee Program Share
Bus Stop Improvements	Short-range Capital Plan			\$ 13,000	12.75%	\$ 2,000
Missouri Flat Transfer Point Expansion	Short-range Capital Plan			310,000	100.00%	310,000
Cambridge Park-and-Ride Improvements	Short-range Capital Plan			200,000	12.75%	26,000
Operations and Maintenance Facility Improvements	Short-range Capital Plan			40,000	12.75%	5,000
Fleet Expansion						
Paratransit Van	Short-range Capital Plan	1	\$ 67,000	\$ 67,000		
Dial-A-Ride Vans	Long-range Capital Plan	5	42,000	210,000		
Local Route Buses	Long-range Capital Plan	2	504,000	1,008,000		
Subtotal				\$ 1,285,000	100.00%	1,285,000
Cambridge Park-and-Ride Improvements	Long-range Capital Plan			\$ 2,725,000	12.75%	347,000
County Line Transit Center	Long-range Capital Plan					
Land				\$ 1,406,000		
Construction				7,117,000		
Subtotal				\$ 8,523,000	12.75%	\$1,087,000
Total				\$ 13,096,000		\$ 3,062,000

Notes:
 Costs do not include planned transition to zero emission vehicle fleet.
 Costs exclude projects within the City of Placerville.
 Bass Lake Hills Park and Ride improvements are anticipated to be funded directly by nearby development projects.

¹ For capital projects not directly related to growth, TIM Fee program share is equal to new development as a share of total development at the planning horizon (see Table 5).

Sources: El Dorado County Transportation Commission, *Western El Dorado County 2019 Short and Long Range Transit Plan*, prepared by LSC Consultants, Inc. November 20, 2019, pp. 165-167, 173-174; El Dorado Transit staff (cost estimates for fleet vehicles and County Line Transit Center); Table 5 (this model).

Table 9: Program Administration

Task	Unit Cost	Frequency	Total 20-yr. Program	
			Units	Cost
Annual program updates ¹	45,000	Annually	20	900,000
Major program updates	1,000,000	Every 5 Years	4	4,000,000
Travel demand model updates	330,000	Every 5 Years	4	<u>1,320,000</u>
Total				6,220,000
¹ Includes periodic minor technical (transportation analysis) updates. Sources: County of El Dorado.				

Table 10: TIM Fee Capital Improvement Program Costs

Map ID	CIP Acct.	Project No.	Project Name	From	To	Total Cost	Other Funding ¹	Net Cost
Hwy 50 Auxiliary Lanes								
A-1	Hwy 50	53115	Auxiliary Lane Westbound	El Dorado Hills Blvd IC	County Line	\$ 3,100,000	\$ 10,000	\$ 3,090,000
			Subtotal			\$ 3,100,000	\$ 10,000	\$ 3,090,000
Hwy 50 Interchanges Projects								
I-1	EDH	71323	El Dorado Hills Blvd	NA	NA	\$ 9,517,000	\$ 550,000	\$ 8,967,000
I-2	SV IC	71345, 71368	Silva Valley Pkwy-Phases 1&2	NA	NA	10,793,000	76,000	10,717,000
I-3	Hwy 50	71330	Bass Lake Rd	NA	NA	5,001,000	22,000	4,979,000
I-4	Hwy 50	71332	Cambridge Rd	NA	NA	9,664,000	39,000	9,625,000
I-5	Hwy 50	72361	Cameron Park Dr	NA	NA	22,837,000	1,410,000	21,427,000
I-6	Hwy 50	71333, 71338, 71339	Ponderosa Rd	NA	NA	42,722,000	1,321,000	41,401,000
I-7	Hwy 50	71347	El Dorado Rd	NA	NA	5,627,000	181,000	5,446,000
			Subtotal			\$ 106,161,000	\$ 3,599,000	\$ 102,562,000
Roadway Improvements								
R-1	Zn 1-7	72143	Cameron Park Dr	Palmer Dr	Toronto Rd	\$ 3,621,000	\$ 105,000	\$ 3,516,000
R-2	EDH	72376	Green Valley Rd Widening	County Line	Sophia Pkwy	Under Construction - See Table 14		
R-3	EDH	GP178	Green Valley Rd Widening	Francisco Dr	E. of Silva Valley Pkwy	14,498,000	-	14,498,000
R-4	EDH	72374	White Rock Rd Widening	Post St	S. of Silva Valley Pkwy	9,467,000	5,000	9,462,000
R-5	Zn 1-7	72142	Missouri Flat Rd	China Garden Rd	State Route 49	7,629,000	-	7,629,000
R-6	EDH	GP147	Saratoga Way Extension-Phs 2	Wilson Blvd	El Dorado Hills Blvd	13,290,000	-	13,290,000
R-7	EDH	72377	Country Club Dr Extension	El Dorado Hills Blvd	Silva Valley Pkwy	21,190,000	-	21,190,000
R-8	EDH	71362	Country Club Dr Extension	Silva Valley Pkwy	Tong Rd	11,703,000	-	11,703,000
R-9	EDH	71361	Country Club Dr Extension	Tong Rd	Bass Lake Rd	17,923,000	-	17,923,000
R-10	Zn 1-7	71360	Country Club Dr Realignment	Bass Lake Rd	Tierre de Dios Dr	Under Const. - See Reimb. Agmts & Table 14		
R-11	Zn 1-7	72334	Diamond Springs Pkwy	Missouri Flat Rd	State Route 49	28,293,000	10,384,000	17,909,000
R-12	EDH	66116	Latrobe Connection	County Line	Golden Foothill Pkwy	2,874,000	350,000	2,524,000
R-13	Zn 1-7	71375	Headington Rd Extension	El Dorado Rd	Missouri Flat Rd	14,899,000	704,000	14,195,000
R-14	EDH	72BASS	Bass Lake Rd	Hwy 50	Country Club Dr	1,654,000	-	1,654,000
R-15	EDH	72LATROBE	Latrobe Rd Widening	Investment Blvd	Golden Foothill Pkwy (S	Deleted - Not Deficient		
R-16	EDH	72381	White Rock Rd Widening	Windfield Way	County Line	11,765,000	313,000	11,452,000
R-17	EDH	NA	Latrobe Rd Widening	Golden Foothill Pkwy (N	White Rock Rd	5,865,000	-	5,865,000
R-18	Zn 1-7	NA	Pleasant Valley Rd	SR 49	Toyman Dr	409,000	-	409,000
			Subtotal			\$ 165,080,000	\$ 11,861,000	\$ 153,219,000

Table 10: TIM Fee Capital Improvement Program Costs

Map ID	CIP Acct.	Project No.	Project Name	From	To	Total Cost	Other Funding ¹	Net Cost
Reimbursement Agreements								
R-6	EDH	71324	Saratoga Way Extension-Phs 1	County Line	El Dorado Hills Blvd	\$ 10,958,000	NA	\$ 10,958,000
R-10	EDH	71360	Country Club Dr Realignment	Bass Lake Rd	Tierre de Dios Dr	4,381,000	NA	4,381,000
R-10	Zn 1-7	71360	Country Club Dr Realignment	Bass Lake Rd	Tierre de Dios Dr	7,256,000	NA	7,256,000
R-10	Hwy 50	71360	Country Club Dr Realignment	Bass Lake Rd	Tierre de Dios Dr	148,000	NA	148,000
R-12	EDH	66116	Latrobe Connection	County Line	Golden Foothill Pkwy	55,000	NA	55,000
I-2	SV IC	71328	Silva Valley Interchange			193,000	NA	193,000
I-2	SV IC	71328	Silva Valley Interchange-Design			5,602,000	NA	5,602,000
NA	EDH	71353	Bass Lake Rd (SIA)			1,477,000	NA	1,477,000
NA	Zn 1-7	76107	Silver Springs Pkwy	South of Green Valley Rd Intersection		2,127,000	NA	2,127,000
NA	Zn 1-7	76108	Silver Springs Pkwy	Offsite (South Segment to Bass Lake Rd)		4,274,000	NA	4,274,000
NA	Zn 1-7	76114	Deer Valley Rd			70,000	NA	70,000
			Subtotal			\$ 36,541,000	NA	\$ 36,471,000
Other Programs								
NA	Local TIM Fee	NA	Bridge Replacement			\$ 9,318,000	\$ -	\$ 9,318,000
NA	Local TIM Fee	NA	Intersection Improvements			40,162,000	-	40,162,000
NA	Local TIM Fee	53118	Transit			3,062,000	-	3,062,000
NA	Local TIM Fee	NA	Fee Program Admin			6,220,000	-	6,220,000
			Subtotal			\$ 58,762,000	\$ -	\$ 58,762,000
			Total			\$ 369,644,000	\$ 15,470,000	\$ 354,174,000
						100%	4%	96%

¹ Amounts represents amounts spent through June 30, 2020, plus \$5,321,000 for Diamond Springs Parkway (R-11) from Caltrans funds that are not included in Table 13 estimates.

Sources: Quincy Engineering; El Dorado County, Department of Transportation, *Adopted 2020 Capital Improvement Program, June 9, 2020*; El Dorado County, Department of Transportation staff; Tables 6, 7, 8, and 9.

Table 11: Trip Allocation By Zone

Map ID	Project Name	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6	Zone 7	Zone 8	Internal Subtotal	External ¹	Total
Hwy 50 Auxiliary Lanes												
A-1	Auxiliary Lane Westbound	1.42%	37.23%	8.89%	5.45%	4.85%	2.86%	2.12%	28.09%	90.92%	9.08%	100.00%
	Subtotal	1.42%	37.23%	8.89%	5.45%	4.85%	2.86%	2.12%	28.09%	90.92%	9.08%	100.00%
Hwy 50 Interchanges Projects												
I-1	El Dorado Hills Blvd	0.01%	1.95%	0.35%	1.65%	0.09%	0.03%	0.81%	93.34%	98.21%	1.79%	100.00%
I-2	Silva Valley Pkwy-Phases 1&2	0.11%	17.08%	3.27%	1.42%	0.82%	0.33%	0.44%	76.04%	99.50%	0.50%	100.00%
I-3	Bass Lake Rd	0.01%	41.18%	1.38%	0.16%	0.23%	0.07%	0.19%	56.79%	100.00%	0.00%	100.00%
I-4	Cambridge Rd	0.02%	85.26%	1.99%	0.38%	0.34%	0.12%	0.23%	11.65%	100.00%	0.00%	100.00%
I-5	Cameron Park Dr	0.05%	86.09%	3.53%	0.38%	0.78%	0.29%	0.27%	8.60%	100.00%	0.00%	100.00%
I-6	Ponderosa Rd	0.21%	63.63%	12.52%	11.09%	0.90%	0.13%	4.49%	6.80%	99.77%	0.23%	100.00%
I-7	El Dorado Rd	0.16%	9.28%	79.77%	1.92%	4.92%	0.78%	0.37%	2.40%	99.61%	0.39%	100.00%
	Subtotal	0.12%	56.12%	10.65%	4.99%	0.92%	0.21%	2.03%	24.63%	99.68%	0.32%	100.00%
Roadway Improvements												
R-1	Cameron Park Dr	0.02%	38.55%	2.67%	0.19%	0.44%	0.14%	0.24%	57.75%	100.00%	0.00%	100.00%
R-2	Green Valley Rd Widening	Under Construction - See Table 14										
R-3	Green Valley Rd Widening	0.08%	28.99%	0.34%	14.09%	0.07%	0.02%	0.02%	50.70%	94.30%	5.70%	100.00%
R-4	White Rock Rd Widening	0.14%	10.40%	2.12%	0.68%	0.64%	0.29%	0.71%	84.44%	99.41%	0.59%	100.00%
R-5	Missouri Flat Rd	1.24%	5.75%	70.31%	0.91%	0.55%	9.73%	6.02%	2.20%	96.71%	3.29%	100.00%
R-6	Saratoga Way Extension-Phs 2	0.00%	0.34%	0.00%	1.99%	0.00%	0.00%	0.05%	96.31%	98.69%	1.31%	100.00%
R-7	Country Club Dr Extension	0.05%	18.59%	2.83%	0.65%	0.66%	0.24%	0.20%	76.78%	100.00%	0.00%	100.00%
R-8	Country Club Dr Extension	0.00%	34.41%	0.00%	0.13%	0.00%	0.00%	0.07%	65.39%	100.00%	0.00%	100.00%
R-9	Country Club Dr Extension	0.00%	17.11%	0.00%	0.10%	0.00%	0.00%	0.07%	82.72%	100.00%	0.00%	100.00%
R-10	Country Club Dr Realignment	Under Construction - See Tables 9 and 14										
R-11	Diamond Springs Pkwy	2.24%	8.92%	58.91%	0.76%	1.06%	12.89%	8.36%	3.76%	96.89%	3.11%	100.00%
R-12	Latrobe Connection	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	5.97%	83.74%	89.71%	10.29%	100.00%
R-13	Headington Rd Extension	0.03%	12.08%	82.51%	0.13%	0.39%	0.90%	0.49%	3.47%	100.00%	0.00%	100.00%
R-14	Bass Lake Rd	0.02%	38.55%	2.67%	0.19%	0.44%	0.14%	0.24%	57.75%	100.00%	0.00%	100.00%
R-15	Latrobe Rd Widening	Deleted - Not Deficient in 2020 TIM Fee Update										
R-16	White Rock Rd Widening	0.11%	2.75%	0.63%	0.52%	0.25%	0.14%	3.57%	85.76%	93.72%	6.28%	100.00%
R-17	Latrobe Rd Widening	0.02%	5.33%	1.01%	0.40%	0.27%	0.10%	2.80%	87.43%	97.36%	2.64%	100.00%
R-18	Pleasant Valley Rd	2.22%	8.26%	50.05%	0.89%	1.43%	22.45%	9.10%	2.61%	97.00%	3.00%	100.00%
	Subtotal	0.36%	14.80%	18.89%	1.87%	0.37%	2.21%	1.92%	57.62%	98.04%	1.96%	100.00%

Table 11: Trip Allocation By Zone

Map ID	Project Name	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6	Zone 7	Zone 8	Internal Subtotal	External ¹	Total
Reimbursement Agreements												
R-6	Saratoga Way Extension-Phs 1	0.00%	0.34%	0.00%	2.02%	0.00%	0.00%	0.05%	97.59%	100.00%	0.00%	100.00%
R-10	Country Club Dr Realignment	0.00%	71.87%	0.00%	0.04%	0.00%	0.00%	0.09%	28.01%	100.00%	0.00%	100.00%
R-10	Country Club Dr Realignment	0.00%	71.87%	0.00%	0.04%	0.00%	0.00%	0.09%	28.01%	100.00%	0.00%	100.00%
R-10	Country Club Dr Realignment	0.00%	71.87%	0.00%	0.04%	0.00%	0.00%	0.09%	28.01%	100.00%	0.00%	100.00%
R-12	Latrobe Connection	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	6.65%	93.35%	100.00%	0.00%	100.00%
I-2	Silva Valley Interchange	0.11%	17.17%	3.28%	1.43%	0.83%	0.33%	0.44%	76.42%	100.00%	0.00%	100.00%
I-2	Silva Valley Interchange-Design	0.11%	17.17%	3.28%	1.43%	0.83%	0.33%	0.44%	76.42%	100.00%	0.00%	100.00%
NA	Bass Lake Rd (SIA)	0.02%	38.55%	2.67%	0.19%	0.44%	0.14%	0.24%	57.75%	100.00%	0.00%	100.00%
NA	Silver Springs Pkwy	0.00%	17.21%	0.00%	0.79%	0.00%	0.00%	0.03%	81.97%	100.00%	0.00%	100.00%
NA	Silver Springs Pkwy	0.00%	17.21%	0.00%	0.79%	0.00%	0.00%	0.03%	81.97%	100.00%	0.00%	100.00%
NA	Deer Valley Rd	0.08%	30.75%	0.36%	14.94%	0.07%	0.02%	0.02%	53.76%	100.00%	0.00%	100.00%
	Subtotal	0.02%	30.64%	0.63%	1.02%	0.15%	0.06%	0.14%	67.35%	100.00%	0.00%	100.00%
Programs²												
NA	Bridge Replacement	0.28%	17.35%	14.34%	1.71%	0.35%	1.67%	1.51%	62.78%	100.00%	0.00%	100.00%
NA	Intersection Improvements	0.28%	17.35%	14.34%	1.71%	0.35%	1.67%	1.51%	62.78%	100.00%	0.00%	100.00%
NA	Transit	0.28%	17.35%	14.34%	1.71%	0.35%	1.67%	1.51%	62.78%	100.00%	0.00%	100.00%
NA	Fee Program Admin	0.28%	17.35%	14.34%	1.71%	0.35%	1.67%	1.51%	62.78%	100.00%	0.00%	100.00%
	Subtotal	0.28%	17.35%	14.34%	1.71%	0.35%	1.67%	1.51%	62.78%	100.00%	0.00%	100.00%
Total Program Costs												
	Total	0.25%	29.02%	13.78%	2.69%	0.54%	1.32%	1.70%	49.67%	98.98%	1.02%	100.00%
	Hwy 50 TIM Fee ²	0.18%	65.97%	12.56%	5.80%	1.16%	0.31%	2.36%	11.21%	99.54%	0.46%	100.00%
	Local TIM Fee ³	0.28%	17.15%	14.17%	1.69%	0.35%	1.65%	1.49%	62.02%	98.80%	1.20%	100.00%

¹ Reimbursement agreements and programs have no external share to ensure full funding.

² Programs are allocated by zone based on cost shares by zone for all Local TIM Fee projects.

Sources: Kimley-Horn and Associates, Inc.

Table 12: Cost Allocation By Zone

Map ID	Project Name	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6	Zone 7	Zone 8	Internal Subtotal
Hwy 50 Auxiliary Lanes										
A-1	Auxiliary Lane Westbound	43,905	1,150,451	274,838	168,418	149,801	88,459	65,454	868,107	2,809,433
	Subtotal	43,905	1,150,451	274,838	168,418	149,801	88,459	65,454	868,107	2,809,433
Hwy 50 Interchanges Projects										
I-1	El Dorado Hills Blvd	593	174,525	31,627	147,568	7,809	2,922	72,207	8,369,605	8,806,856
I-2	Silva Valley Pkwy-Phases 1&2	11,374	1,830,556	349,966	152,535	88,331	35,139	47,080	8,148,764	10,663,744
I-3	Bass Lake Rd	363	2,050,297	68,573	7,934	11,300	3,626	9,406	2,827,499	4,979,000
I-4	Cambridge Rd	1,449	8,206,595	191,656	36,404	33,193	11,552	22,366	1,121,785	9,625,000
I-5	Cameron Park Dr	10,357	18,446,919	756,622	82,150	167,462	61,923	57,889	1,843,677	21,427,000
I-6	Ponderosa Rd	87,225	26,341,773	5,183,395	4,591,216	372,524	55,840	1,857,146	2,816,722	41,305,843
I-7	El Dorado Rd	8,867	505,553	4,344,223	104,816	268,029	42,327	20,214	130,914	5,424,942
	Subtotal	120,228	57,556,218	10,926,062	5,122,623	948,648	213,330	2,086,308	25,258,967	102,232,384
Roadway Improvements										
R-1	Cameron Park Dr	652	1,355,338	93,953	6,538	15,530	4,954	8,507	2,030,528	3,516,000
R-2	Green Valley Rd Widening	Under Construction - See Table 13								
R-3	Green Valley Rd Widening	11,218	4,203,528	49,250	2,042,745	9,677	3,174	2,496	7,349,888	13,671,977
R-4	White Rock Rd Widening	13,467	983,809	200,201	64,031	60,870	27,155	67,240	7,989,795	9,406,568
R-5	Missouri Flat Rd	94,247	438,780	5,364,258	69,345	42,145	741,970	459,336	167,778	7,377,859
R-6	Saratoga Way Extension-Phs 2	-	44,931	-	264,543	-	-	6,556	12,799,469	13,115,499
R-7	Country Club Dr Extension	10,564	3,938,793	599,175	137,751	140,075	51,340	41,621	16,270,682	21,190,000
R-8	Country Club Dr Extension	-	4,026,621	-	15,134	-	-	8,465	7,652,780	11,703,000
R-9	Country Club Dr Extension	-	3,066,864	-	17,118	-	-	13,291	14,825,727	17,923,000
R-10	Country Club Dr Realignment	Under Construction - See Tables 9 and 13								
R-11	Diamond Springs Pkwy	401,351	1,598,158	10,550,477	135,669	189,407	2,307,716	1,496,464	673,530	17,352,772
R-12	Latrobe Connection	-	-	-	-	-	-	150,565	2,113,655	2,264,220
R-13	Headington Rd Extension	3,588	1,714,869	11,711,721	19,138	55,192	128,154	69,716	492,623	14,195,000
R-14	Bass Lake Rd	307	637,579	44,197	3,076	7,306	2,330	4,002	955,203	1,654,000
R-15	Latrobe Rd Widening	Deleted - Not Deficient in TIM Fee 2020 Update								
R-16	White Rock Rd Widening	12,064	314,860	71,988	59,262	28,704	15,789	408,688	9,821,635	10,732,990
R-17	Latrobe Rd Widening	1,454	312,511	59,178	23,341	15,663	5,855	164,271	5,127,875	5,710,148
R-18	Pleasant Valley Rd	9,072	33,767	204,686	3,661	5,830	91,804	37,218	10,677	396,714
	Subtotal	557,984	22,670,409	28,949,083	2,861,351	570,399	3,380,241	2,938,436	88,281,844	150,209,747

Table 12: Cost Allocation By Zone

Map ID	Project Name	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6	Zone 7	Zone 8	Internal Subtotal
Reimbursements										
R-6	Saratoga Way Extension-Phs 1	-	37,540	-	221,026	-	-	5,477	10,693,957	10,958,000
R-10	Country Club Dr Realignment	-	3,148,637	-	1,537	-	-	3,796	1,227,030	4,381,000
R-10	Country Club Dr Realignment	-	5,214,907	-	2,546	-	-	6,287	2,032,260	7,256,000
R-10	Country Club Dr Realignment	-	106,368	-	52	-	-	128	41,452	148,000
R-12	Latrobe Connection	-	-	-	-	-	-	3,657	51,343	55,000
I-2	Silva Valley Interchange	206	33,131	6,334	2,761	1,599	636	852	147,482	193,000
I-2	Silva Valley Interchange-Design	5,975	961,649	183,848	80,132	46,403	18,459	24,733	4,280,802	5,602,000
NA	Bass Lake Rd (SIA)	274	569,350	39,468	2,747	6,524	2,081	3,574	852,984	1,477,000
NA	Silver Springs Pkwy	-	366,087	-	16,699	-	-	653	1,743,561	2,127,000
NA	Silver Springs Pkwy	-	735,617	-	33,554	-	-	1,313	3,503,516	4,274,000
NA	Deer Valley Rd	57	21,522	252	10,459	50	16	13	37,631	70,000
	Subtotal	6,512	11,194,808	229,902	371,512	54,575	21,193	50,483	24,612,016	36,541,000
Programs¹										
NA	Bridge Replacement	26,066	1,617,134	1,336,638	159,747	32,607	155,523	140,538	5,849,747	9,318,000
NA	Intersection Imps.	112,348	6,970,096	5,761,113	688,536	140,539	670,329	605,739	25,213,300	40,162,000
NA	Transit	8,566	531,409	439,234	52,495	10,715	51,107	46,182	1,922,293	3,062,000
NA	Fee Program Admin	17,400	1,079,478	892,240	106,635	21,766	103,816	93,812	3,904,854	6,220,000
	Subtotal	164,379	10,198,117	8,429,225	1,007,413	205,626	980,775	886,271	36,890,193	58,762,000
Total Program Costs										
	Total	893,007	102,770,002	48,809,110	9,531,317	1,929,050	4,683,998	6,026,953	175,911,127	350,554,564
	Hwy 50 TIM Fee ²	152,167	56,807,956	10,819,307	4,990,991	1,002,309	263,728	2,032,603	9,650,157	85,719,218
	Local TIM Fee ³	740,841	45,962,046	37,989,803	4,540,327	926,741	4,420,269	3,994,349	166,260,970	264,835,346

¹ Programs are allocated by zone based on cost shares by zone for all other TIM Fee Program costs except reimbursement agreements.

² Highway 50 TIM Fee component includes all Highway 50 auxilliary lands and all interchanges except the El Dorado Hills Boulevard and Silva Valley Parkway interchanges.

³ Local TIM Fee component includes all roadway improvements, reimbursements, and programs, plus El Dorado Hills Boulevard and Silva Valley Parkwa interchanges.

Sources: Tables 10 and 11.

Table 12: Cost Allocation By Zone

Map ID	Project Name	External	Total
Hwy 50 Auxiliary Lanes			
A-1	Auxiliary Lane Westbound	280,567	3,090,000
	Subtotal	280,567	3,090,000
Hwy 50 Interchanges Projects			
I-1	El Dorado Hills Blvd	160,144	8,967,000
I-2	Silva Valley Pkwy-Phases 1&2	53,256	10,717,000
I-3	Bass Lake Rd	-	4,979,000
I-4	Cambridge Rd	-	9,625,000
I-5	Cameron Park Dr	-	21,427,000
I-6	Ponderosa Rd	95,157	41,401,000
I-7	El Dorado Rd	21,058	5,446,000
	Subtotal	329,616	102,562,000
Roadway Improvements			
R-1	Cameron Park Dr	-	3,516,000
R-2	Green Valley Rd Widening		
R-3	Green Valley Rd Widening	826,023	14,498,000
R-4	White Rock Rd Widening	55,432	9,462,000
R-5	Missouri Flat Rd	251,141	7,629,000
R-6	Saratoga Way Extension-Phs 2	174,501	13,290,000
R-7	Country Club Dr Extension	-	21,190,000
R-8	Country Club Dr Extension	-	11,703,000
R-9	Country Club Dr Extension	-	17,923,000
R-10	Country Club Dr Realignment		
R-11	Diamond Springs Pkwy	556,228	17,909,000
R-12	Latrobe Connection	259,780	2,524,000
R-13	Headington Rd Extension	-	14,195,000
R-14	Bass Lake Rd	-	1,654,000
R-15	Latrobe Rd Widening		
R-16	White Rock Rd Widening	719,010	11,452,000
R-17	Latrobe Rd Widening	154,852	5,865,000
R-18	Pleasant Valley Rd	12,286	409,000
	Subtotal	3,009,253	153,219,000

Table 12: Cost Allocation By Zone

Map ID	Project Name	External	Total
Reimbursements			
R-6	Saratoga Way Extension-Phs 1	-	10,958,000
R-10	Country Club Dr Realignment	-	4,381,000
R-10	Country Club Dr Realignment	-	7,256,000
R-10	Country Club Dr Realignment	-	148,000
R-12	Latrobe Connection	-	55,000
I-2	Silva Valley Interchange	-	193,000
I-2	Silva Valley Interchange-Design	-	5,602,000
NA	Bass Lake Rd (SIA)	-	1,477,000
NA	Silver Springs Pkwy	-	2,127,000
NA	Silver Springs Pkwy	-	4,274,000
NA	Deer Valley Rd	-	70,000
	Subtotal	-	36,541,000
Programs¹			
NA	Bridge Replacement	-	9,318,000
NA	Intersection Imps.	-	40,162,000
NA	Transit	-	3,062,000
NA	Fee Program Admin	-	6,220,000
	Subtotal	-	58,762,000
Total Program Costs			
	Total	3,619,436	354,174,000
	Hwy 50 TIM Fee ²	396,782	86,116,000
	Local TIM Fee ³	3,222,654	268,058,000
¹ Programs are allocated by zone based on cost ² Highway 50 TIM Fee component includes all H ³ Local TIM Fee component includes all roadway Sources: Tables 10 and 11.			

Section 3

Non-TIM Fee Funding Estimates

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Table 13: Ongoing State & Federal Funding for TIM Fee Program

Funding Source	Federal / State Funding Distribution Method	Estimated Annual EDCTC Funding	El Dorado County Allocation	TIM Fee Program 20-Year Funding (2019 \$) ¹
Federal				
Congestion Mitigation and Air Quality (CMAQ)	Competitive ²	\$1,588,088	\$ 619,354	\$ 12,387,080
Urban Surface Transportation Block Grant (Urban STBGP)	Formula	860,274	860,274	17,205,480
Highway Infrastructure Program (HIP)	Formula ³	522,678	422,322	8,446,440
Subtotal		\$2,971,040	\$1,901,950	\$ 38,039,000
State				
State Transportation Improvement Program (STIP)	Competitive ⁴	6,044,000	2,115,400	42,308,000
Exchange Surface Transportation Block Grant (Rural STBGP)	Formula	831,597	548,437	10,968,740
Subtotal		\$6,875,597	\$2,663,837	\$ 53,276,740
Total		\$9,846,637	\$ 4,565,787	\$ 91,315,740

Note: EDCTC is the El Dorado County Transportation Commission.

Note: Funding sources included represent those that would likely be applicable to TIM fee projects. Excluded sources that TIM fee projects would unlikely be eligible for such as funding for active transportation (bicycle and pedestrian), roadways maintenance, transit, and airport projects. Transit funding sources excluded because TIM fee transit projects costs represent the TIM fee share only.

Note: Excluded funding sources that could apply to TIM fee projects but are too speculative or competitive to rely on for funding, such as SB 1 Local Partnership Program.

Note: Missouri Flats Master Circulation & Financing Plan (MC&FP) funding is not included because funds are restricted to specific projects not included in TIM fee program.

¹ Assume TIM fee program can utilize 100 percent of El Dorado County allocation.

² CMAQ funding allocated through competitive process, approximately every three years. Funding estimate based on the County's historical share of CMAQ funding (39 percent) since 2009/10.

³ HIP is a new funding source for EDCTC and currently not allocated by formula or competitive process. Currently funds are allocated to the City of Placerville to complete a specific project (WPI phases 2 and 2.2). Assume funds in the future are allocated using the same formula as the Exchange STBGP.

⁴ STIP is programmed to regionally significant projects by the EDCTC and the California Transportation Commission. Funding based on the County's historical share of STIP funding since 2000.

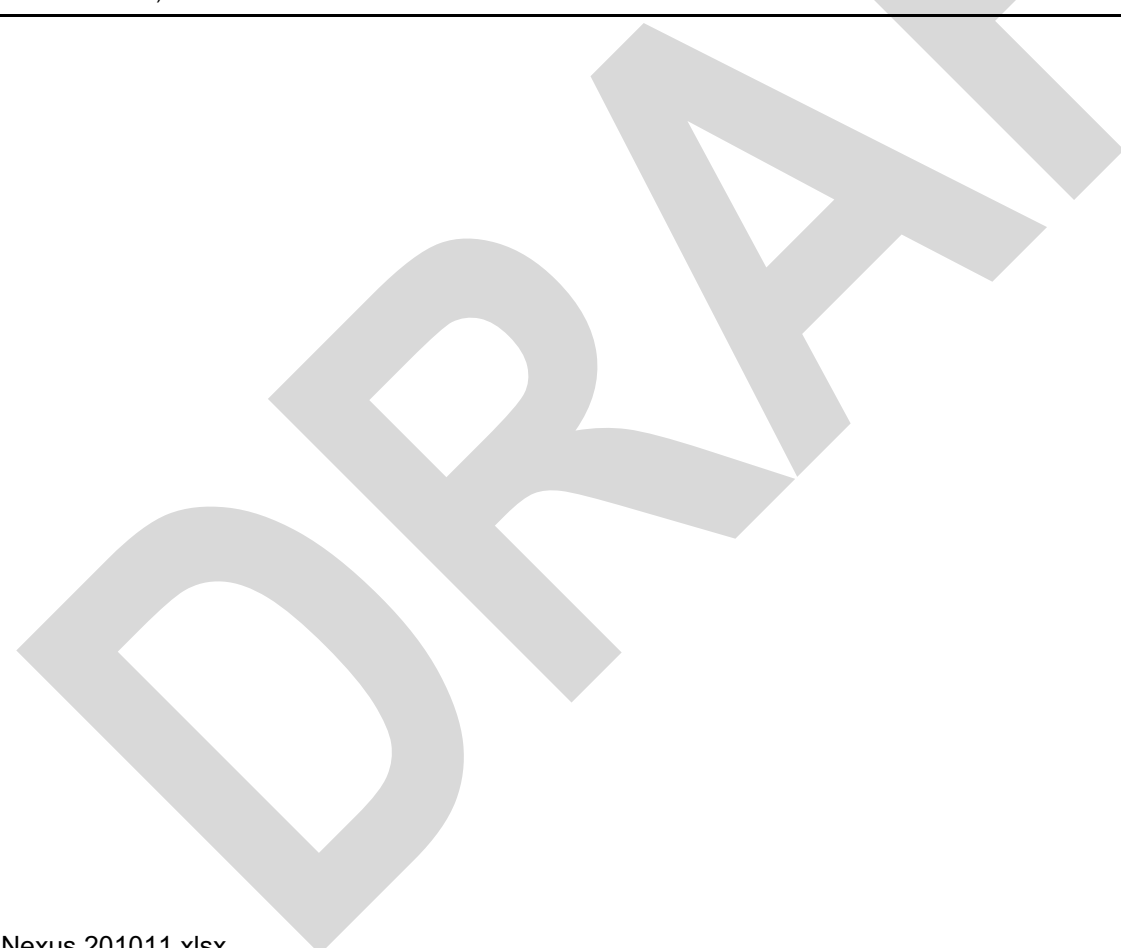
Source: El Dorado County Transportation Commission.

Table 14: TIM Fee Program Fund Balances

	Map ID	Project No.		
EDH TIM Fee Zone 8 & Silva Valley Interchange Set-aside				
EDH TIM Fee Zone 8 Fund Balance 6/30/2020				15,954,847
Silva Valley Interchange Set-aside Fund Balance 6/30/2020				2,226,950
Subtotal				18,181,797
Remaining Costs for Projects Under Construction				
Saratoga Way Extension - Phase 1	R-6	71324	120,000	
Country Club Dr Realignment	R-10	71360	24,000	
Green Valley Rd Widening (County line to Sophia Pkwy)	R-2	72376	17,389	
White Rock Rd Widening (Windfield Way to County Line)	R-16	72381	30,000	
Subtotal				191,389
Available EDH TIM Fee Zone 8 Fund Balance				\$ 17,990,408
TIM Fee Zones 1-7				
TIM Fee Zones 1-7 Fund Balance 6/30/2020				\$ 10,262,968
Remaining Costs for Projects Under Construction				
Country Club Dr Realignment	R-10	71360	24,000	
Missouri Flat Rd Widening - Plaza Dr to Headington Rd	NA	71374	41,500	
Enterprise Dr Signalization	NA	73365	301,893	
Silver Springs Pkwy Offsite (south segment to Bass Lake Rd)	NA	76108	57,680	
Deer Valley Rd (reimbursement agreement)	NA	76114	69,889	
Green Valley Rd at Weber Creek - Bridge Replacement	NA	77114	36,000	
Bucks Bar Rd at N. Fork Consumnes River - Bridge Replacement	NA	77116	838,077	
Green Valley Rd at Indian Creek - Bridge Replacement	NA	77127	441,538	
Green Valley Rd at Mound Springs Creek - Bridge Replacement	NA	77136	441,538	
Cedar Ravine Rd at Weber Creek - Bridge Rehabilitation	NA	77142	232,489	
Subtotal				2,484,604
Available TIM Fee Zones 1-7 Fund Balance				\$ 7,778,364
Hwy 50 TIM Fee Zones 1-8 & Hwy 50 TIM-Blackstone				
Hwy 50 TIM Fee Fund Balance 6/30/2020				\$ 16,193,833
Hwy 50 TIM Fee-Blackstone Fund Balance 6/30/2020		53115		7,109,683
Subtotal				23,303,516

Table 14: TIM Fee Program Fund Balances

	Map ID	Project No.		
Remaining Costs for Projects Under Construction				
U.S. 50 / Bass Lake Rd Eb Offramp Signalization		73367	686,560	
Subtotal				686,560
Available Hwy 50 TIM Fee Fund Balance				\$ 22,616,956
Total Available TIM Fee Program Fund Balances				\$ 48,385,728
Sources: El Dorado County, Chief Fiscal Officer (fund balances); El Dorado County, Department of Transportation, <i>Adopted 2020 Capital Improvement Program</i> , June 9, 2020 (project cost estimates).				



Section 4

TIM Fee Schedules and Budget Summaries

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Table 15: Hwy 50 TIM Fee Cost Per Equivalent Dwelling Unit - 2016 Update

	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6	Zone 7	Zone 8	Total
TIM Fee Program Cost									
Hwy 50 TIM Fee Cost Share	152,167	56,807,956	10,819,307	4,990,991	1,002,309	263,728	2,032,603	9,650,157	85,719,218
Fund Balances (6/30/2020) ¹	(40,149)	(14,988,740)	(2,854,667)	(1,316,869)	(264,459)	(69,585)	(536,301)	(2,546,187)	(22,616,956)
State & Federal Funding	-	-	-	-	-	-	-	-	-
Net TIM Fee Program Cost	112,018	41,819,216	7,964,640	3,674,121	737,850	194,144	1,496,302	7,103,970	63,102,262
Equivalent Dwelling Units									
Residential	48	2,021	798	233	138	70	64	5,167	8,540
Nonresidential	-	164	79	9	80	-	-	293	624
Total	48	2,184	877	242	217	70	64	5,461	9,164
Cost per EDU									
Residential	2,324	16,262	16,262	15,204	3,395	2,755	23,238	1,301	
Nonresidential Offset ²	47%	47%	47%	47%	47%	47%	47%	47%	
Nonresidential	1,240	8,680	8,680	8,116	1,812	1,470	12,405	694	
Revenue									
TIM Fee Residential	112,018	32,857,190	12,980,955	3,544,227	466,895	194,144	1,496,302	6,722,143	58,373,872
TIM Fee Nonresidential	-	1,420,066	686,155	69,338	144,636	-	-	203,819	2,524,014
Subtotal TIM Fee Program	112,018	34,277,256	13,667,110	3,613,564	611,531	194,144	1,496,302	6,925,962	60,897,887
Fund Balances (6/30/2020) ¹	40,149	14,988,740	2,854,667	1,316,869	264,459	69,585	536,301	2,546,187	22,616,956
State & Federal Funding	-	-	-	-	-	-	-	-	-
Nonresidential Offset	-	1,240,230	599,261	60,557	126,320	-	-	178,007	2,204,375
Total TIM Fee Cost	152,167	50,506,226	17,121,038	4,990,991	1,002,309	263,728	2,032,603	9,650,157	85,719,218

¹ Fund balance allocated based on total cost shares by zone.

² "Nonresidential Offset" is the share of the nonresidential cost per EDU allocated to other funding, resulting in a reduction in the nonresidential TIM fee.

Sources: Tables 5, 12, and 14.

Table 16: Local Roads TIM Fee Cost Per Equivalent Dwelling Unit - 2016 Update

	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6	Zone 7	Zone 8	Total
TIM Fee Program Cost									
Local TIM Fee Cost Share	740,841	45,962,046	37,989,803	4,540,327	926,741	4,420,269	3,994,349	166,260,970	264,835,346
Fund Balances (6/30/2020) ¹	(58,459)	(3,626,800)	(2,997,721)	(358,271)	(73,128)	(348,797)	(315,188)	(17,990,408)	(25,768,772)
State & Federal Funding	-	-	-	-	-	-	-	-	-
Net TIM Fee Program Cost	682,382	42,335,246	34,992,082	4,182,056	853,613	4,071,472	3,679,161	148,270,562	239,066,574
Equivalent Dwelling Units									
Residential	48	2,021	798	233	138	70	64	5,167	8,540
Nonresidential	-	164	79	9	80	-	-	293	624
Total	48	2,184	877	242	217	70	64	5,461	9,164
Cost per EDU									
Residential	14,155	25,259	25,259	17,306	3,928	57,768	57,139	27,153	
Nonresidential Offset ²	47%	47%	47%	47%	47%	47%	47%	47%	
Nonresidential	7,556	13,483	13,483	9,238	2,097	30,836	30,501	14,494	
Revenue									
TIM Fee Residential	682,382	51,035,794	20,162,812	4,034,204	540,147	4,071,472	3,679,161	140,301,269	224,507,241
TIM Fee Nonresidential	-	2,205,734	1,065,778	78,923	167,328	-	-	4,254,009	7,771,772
Subtotal TIM Fee Program	682,382	53,241,528	21,228,590	4,113,127	707,475	4,071,472	3,679,161	144,555,278	232,279,013
Fund Balances (6/30/2020) ¹	58,459	3,626,800	2,997,721	358,271	73,128	348,797	315,188	17,990,408	25,768,772
State & Federal Funding	-	-	-	-	-	-	-	-	-
Nonresidential Offset	-	1,926,401	930,809	68,929	146,138	-	-	3,715,284	6,787,561
Total TIM Fee Cost	740,841	58,794,729	25,157,120	4,540,327	926,741	4,420,269	3,994,349	166,260,970	264,835,346

¹ TIM Fee Zones 1-7 fund balance allocated based on zones 1-7 total cost shares by zone. EDH TIM Fee Zone 8 fund balance allocated to zone 8.

² "Nonresidential Offset" is the share of the nonresidential cost per EDU allocated to other funding, resulting in a reduction in the nonresidential TIM fee.

Sources: Tables 5, 12, and 14.

Table 17: Hwy 50 TIM Fee Schedule - 2016 Update

	EDU Rate ¹	Fee per:	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6	Zone 7	Zone 8
Residential		<i>Cost per EDU¹ >></i>	2,324	16,262	16,262	15,204	3,395	2,755	23,238	1,301
SFD Not Age Restricted										
Less than 1,000 SqFt	0.82	Dwelling Unit	1,905	13,335	13,335	12,467	2,784	2,259	19,055	1,067
1,000 to 1,499 SqFt	0.89	Dwelling Unit	2,068	14,473	14,473	13,531	3,022	2,452	20,682	1,158
1,500 to 1,999 SqFt	0.95	Dwelling Unit	2,208	15,449	15,449	14,444	3,226	2,617	22,076	1,236
2,000 to 2,999 SqFt	1.00	Dwelling Unit	2,324	16,262	16,262	15,204	3,395	2,755	23,238	1,301
3,000 to 3,999 SqFt	1.06	Dwelling Unit	2,463	17,237	17,237	16,116	3,599	2,920	24,633	1,379
4,000 SqFt or more	1.10	Dwelling Unit	2,556	17,888	17,888	16,724	3,735	3,030	25,562	1,431
MFD Not Age Restricted	0.57	Dwelling Unit	1,325	9,269	9,269	8,666	1,935	1,570	13,246	742
SFD Age Restricted	0.30	Dwelling Unit	NA	4,878	4,878	NA	NA	NA	NA	390
MFD Age Restricted	0.26	Dwelling Unit	NA	4,228	4,228	NA	NA	NA	NA	338
Nonresidential		<i>Cost per EDU¹ >></i>	1,240	8,680	8,680	8,116	1,812	1,470	12,405	694
General Commercial	0.28	Bldg. Sq. Ft.	0.35	2.43	2.43	2.27	0.51	0.41	3.47	0.19
Hotel/Motel/B&B	0.05	Room	62	434	434	406	91	74	620	35
Church	0.05	Bldg. Sq. Ft.	0.06	0.43	0.43	0.41	0.09	0.07	0.62	0.03
Office/Medical	0.22	Bldg. Sq. Ft.	0.27	1.91	1.91	1.79	0.40	0.32	2.73	0.15
Industrial/Warehouse	0.25	Bldg. Sq. Ft.	0.31	2.17	2.17	2.03	0.45	0.37	3.10	0.17

¹ "EDU" (equivalent dwelling unit) equals the demand placed on the transportation network relative to one single family detached dwelling unit. EDU factors are expressed per dwelling unit for residential development, per room for hotel/motel/B&B, and per 1,000 square feet for all other nonresidential development.

Sources: Tables 4 and 15.

Table 18: Local Roads TIM Fee Schedule - 2016 Update

	EDU Rate ¹	Fee per:	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6	Zone 7	Zone 8
Residential		<i>Cost per EDU¹ >></i>	14,155	25,259	25,259	17,306	3,928	57,768	57,139	27,153
SFD Not Age Restricted										
Less than 1,000 SqFt	0.82	Dwelling Unit	11,607	20,712	20,712	14,191	3,221	47,369	46,854	22,265
1,000 to 1,499 SqFt	0.89	Dwelling Unit	12,598	22,480	22,480	15,402	3,496	51,413	50,854	24,166
1,500 to 1,999 SqFt	0.95	Dwelling Unit	13,448	23,996	23,996	16,441	3,732	54,879	54,282	25,795
2,000 to 2,999 SqFt	1.00	Dwelling Unit	14,155	25,259	25,259	17,306	3,928	57,768	57,139	27,153
3,000 to 3,999 SqFt	1.06	Dwelling Unit	15,005	26,774	26,774	18,344	4,164	61,234	60,568	28,782
4,000 SqFt or more	1.10	Dwelling Unit	15,571	27,784	27,784	19,036	4,321	63,544	62,853	29,868
MFD Not Age Restricted	0.57	Dwelling Unit	8,069	14,397	14,397	9,864	2,239	32,928	32,569	15,477
SFD Age Restricted	0.30	Dwelling Unit	NA	7,578	7,578	NA	NA	NA	NA	8,146
MFD Age Restricted	0.26	Dwelling Unit	NA	6,567	6,567	NA	NA	NA	NA	7,060
Nonresidential		<i>Cost per EDU¹ >></i>	7,556	13,483	13,483	9,238	2,097	30,836	30,501	14,494
General Commercial	0.28	Bldg. Sq. Ft.	2.12	3.78	3.78	2.59	0.59	8.63	8.54	4.06
Hotel/Motel/B&B	0.05	Room	378	674	674	462	105	1,542	1,525	725
Church	0.05	Bldg. Sq. Ft.	0.38	0.67	0.67	0.46	0.10	1.54	1.53	0.72
Office/Medical	0.22	Bldg. Sq. Ft.	1.66	2.97	2.97	2.03	0.46	6.78	6.71	3.19
Industrial/Warehouse	0.25	Bldg. Sq. Ft.	1.89	3.37	3.37	2.31	0.52	7.71	7.63	3.62

¹ "EDU" (equivalent dwelling unit) equals the demand placed on the transportation network relative to one single family detached dwelling unit. EDU factors are expressed per dwelling unit for residential development, per room for hotel/motel/B&B, and per 1,000 square feet for all other nonresidential development.

Sources: Tables 4 and 16.

Table 19: Total TIM Fee Schedule - 2016 Update

	EDU Rate ¹	Fee per:	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6	Zone 7	Zone 8
Residential		<i>Cost per EDU¹ >></i>	16,479	41,520	41,520	32,510	7,324	60,522	80,378	28,454
SFD Not Age Restricted										
Less than 1,000 SqFt	0.82	Dwelling Unit	13,512	34,047	34,047	26,658	6,005	49,628	65,909	23,332
1,000 to 1,499 SqFt	0.89	Dwelling Unit	14,666	36,953	36,953	28,933	6,518	53,865	71,536	25,324
1,500 to 1,999 SqFt	0.95	Dwelling Unit	15,656	39,445	39,445	30,885	6,958	57,496	76,358	27,031
2,000 to 2,999 SqFt	1.00	Dwelling Unit	16,479	41,521	41,521	32,510	7,323	60,523	80,377	28,454
3,000 to 3,999 SqFt	1.06	Dwelling Unit	17,468	44,011	44,011	34,460	7,763	64,154	85,201	30,161
4,000 SqFt or more	1.10	Dwelling Unit	18,127	45,672	45,672	35,760	8,056	66,574	88,415	31,299
MFD Not Age Restricted	0.57	Dwelling Unit	9,394	23,666	23,666	18,530	4,174	34,498	45,815	16,219
SFD Age Restricted	0.30	Dwelling Unit	NA	12,456	12,456	NA	NA	NA	NA	8,536
MFD Age Restricted	0.26	Dwelling Unit	NA	10,795	10,795	NA	NA	NA	NA	7,398
Nonresidential		<i>Cost per EDU¹ >></i>	8,797	22,163	22,163	17,354	3,909	32,307	42,906	15,189
General Commercial	0.28	Bldg. Sq. Ft.	2.47	6.21	6.21	4.86	1.10	9.04	12.01	4.25
Hotel/Motel/B&B	0.05	Room	440	1,108	1,108	868	196	1,616	2,145	760
Church	0.05	Bldg. Sq. Ft.	0.44	1.10	1.10	0.87	0.19	1.61	2.15	0.75
Office/Medical	0.22	Bldg. Sq. Ft.	1.93	4.88	4.88	3.82	0.86	7.10	9.44	3.34
Industrial/Warehouse	0.25	Bldg. Sq. Ft.	2.20	5.54	5.54	4.34	0.97	8.08	10.73	3.79

¹ "EDU" (equivalent dwelling unit) equals the demand placed on the transportation network relative to one single family detached dwelling unit. EDU factors are expressed per dwelling unit for residential development, per room for hotel/motel/B&B, and per 1,000 square feet for all other nonresidential development.

Sources: Tables 17 and 18.

Table 20: Allocation of Ongoing State & Federal Funding

		Share
Allocation of State & Federal Funding		
Total State & Federal Funding (Table 13) ¹	\$ 91,315,740	100%
TIM Fee Program Allocation		
External Trip Share (Table 12)	\$ 3,619,436	4%
Affordable Housing Subsidy ²	20,000,000	22%
TIM Fee Subsidy		
Hwy. 50 TIM Fee (Table 15)	\$ -	0%
Local TIM Fee (Table 16)	<u>-</u>	<u>0%</u>
Subtotal TIM Fee Subsidy	\$ -	0%
Nonresidential Offset		
Hwy. 50 TIM Fee (Table 15)	\$ 2,204,375	2%
Local TIM Fee (Table 16)	<u>6,787,561</u>	<u>7%</u>
Subtotal Nonresidential Offset	\$ 8,991,937	10%
Total TIM Fee Program Allocation	<u>32,611,373</u>	<u>36%</u>
Net Available Funding After TIM Fee Program Allocation	\$ 58,704,367	64%
Ongoing State & Federal Funding Share of TIM Fee Program Costs		
Total TIM Fee Program Costs (Table 10)	\$ 369,644,000	100%
Prior Year Funding (Table 10)	10,149,000	3%
State & Federal Funding		
One-time Funding (Table 10) ³	5,321,000	1%
Ongoing Funding (this table) ²	<u>12,611,373</u>	<u>3%</u>
Subtotal	17,932,373	5%
Fund Balances (Tables 15 and 16)	<u>48,385,728</u>	<u>13%</u>
TIM Fee Program Revenue Requirement	293,176,899	79%
¹ Excludes grant funding sources that are restricted to uses that do not overlap with TIM Fee Program projects. ² Affordable housing subsidy used to fully offset TIM Fees on affordable housing and is based on 20-year estimate of future affordable housing units. Subsidy does not reduce total required TIM fee program revenue so is not included in ongoing state and federal funding shown in bottom half of table. The affordable housing subsidy only replaces TIM fees that would be owed by affordable housing projects. ³ Diamond Springs Parkway (see Table 10).		
Source: Tables 10, 12, 13, 15, and 16.		

Table 21: TIM Fee Program Budget Summary

		Share
TIM Fee Cost Allocation by Revenue Source		
TIM Fee CIP Total Costs (Table 10)	\$ 369,644,000	100%
Existing Alternative Funding		
Other Funding (Table 10)	\$ 15,470,000	4%
Fund Balances (6/30/2015) (Table 14)	<u>48,385,728</u>	<u>13%</u>
Subtotal	63,855,728	17%
Ongoing State & Federal Funding ¹		
External Trip Share (Table 12)	\$ 3,619,436	1%
TIM Fee Subsidy (Tables 15 & 16)	-	0%
Nonresidential Fee Offset (Table 20)	<u>8,991,937</u>	<u>2%</u>
Subtotal	<u>12,611,373</u>	<u>3%</u>
Required TIM Fee Revenue	\$ 293,176,899	79%
TIM Fee Revenue Requirement by Fee & Land Use		
Hwy 50 TIM Fee (Table 15)		
Residential	\$ 58,373,872	20%
Nonresidential	<u>2,524,014</u>	<u>1%</u>
Subtotal	\$ 60,897,887	21%
Local Roads TIM Fee (Table 16)		
Residential	\$ 224,507,241	77%
Nonresidential	<u>7,771,772</u>	<u>3%</u>
Subtotal	<u>232,279,013</u>	<u>79%</u>
Total TIM Fee Revenue Requirement	\$ 293,176,899	100%
Residential (Hwy 50 + Local Roads)	282,881,113	96%
Nonresidential (Hwy 50 + Local Roads)	10,295,787	4%
¹ The affordable housing subsidy shown in Table 20 does not reduce total required TIM fee program revenue so is not included here. The affordable housing subsidy only replaces TIM fees that would be owed by affordable housing projects.		
Source: Tables 10, 12, 14, 15, 16, and 20.		

Table 22: 2020 Update TIM Fee and Current (FY 2020-21) Schedules

		EDU Rate	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6	Zone 7	Zone 8
2020 Update TIM Fee										
Residential	<i>Cost per EDU >></i>		16,479	41,520	41,520	32,510	7,324	60,522	80,378	28,454
SFD Not Age Restricted	Dwelling Unit	1.00	16,479	41,521	41,521	32,510	7,323	60,523	80,377	28,454
MFD Not Age Restricted	Dwelling Unit	0.57	9,394	23,666	23,666	18,530	4,174	34,498	45,815	16,219
SFD Age Restricted	Dwelling Unit	0.30	NA	12,456	12,456	N/A	N/A	N/A	N/A	8,536
MFD Age Restricted	Dwelling Unit	0.26	NA	10,795	10,795	N/A	N/A	N/A	N/A	7,398
Nonresidential	<i>Cost per EDU >></i>		8,797	22,163	22,163	17,354	3,909	32,307	42,906	15,189
General Commercial	Bldg. Sq. Ft.	0.28	2.47	6.21	6.21	4.86	1.10	9.04	12.01	4.25
Hotel/Motel/B&B	Room	0.05	440	1,108	1,108	868	196	1,616	2,145	760
Church	Bldg. Sq. Ft.	0.05	0.44	1.10	1.10	0.87	0.19	1.61	2.15	0.75
Office/Medical	Bldg. Sq. Ft.	0.22	1.93	4.88	4.88	3.82	0.86	7.10	9.44	3.34
Industrial/Warehouse	Bldg. Sq. Ft.	0.25	2.20	5.54	5.54	4.34	0.97	8.08	10.73	3.79
FY 2020-21 TIM Fee										
Residential	<i>Cost per EDU >></i>		4,765	21,216	21,216	4,835	4,809	7,755	12,030	30,472
SFD Not Age Restricted	Dwelling Unit	1.00	4,765	21,216	21,216	4,835	4,809	7,755	12,030	30,472
MFD Not Age Restricted	Dwelling Unit	0.62	2,954	13,154	13,154	2,997	2,982	4,808	7,459	18,892
SFD Age Restricted	Dwelling Unit	0.27	N/A	5,728	5,728	N/A	N/A	N/A	N/A	8,228
MFD Age Restricted	Dwelling Unit	0.25	N/A	5,304	5,304	N/A	N/A	N/A	N/A	7,618
Nonresidential	<i>Cost per EDU >></i>		2,764	12,306	12,306	2,805	2,789	4,498	6,977	17,674
General Commercial	Bldg. Sq. Ft.	0.51	1.41	6.28	6.28	1.43	1.42	2.30	3.56	9.01
Hotel/Motel/B&B	Room	0.08	221	984	984	224	223	360	558	1,414
Church	Bldg. Sq. Ft.	0.10	0.28	1.23	1.23	0.28	0.28	0.45	0.70	1.77
Office/Medical	Bldg. Sq. Ft.	0.33	0.91	4.60	4.06	0.93	0.92	1.48	2.30	5.84
Industrial/Warehouse	Bldg. Sq. Ft.	0.23	0.64	2.83	2.83	0.65	0.64	1.03	1.60	4.06

Sources: Tables 4 and 19.

Table 23: Difference Between 2020 Update TIM Fee and Current (FY 2020-21) TIM Fee

		Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6	Zone 7	Zone 8	
Difference - Amount										
Residential	<i>Cost per EDU >></i>	11,714	20,304	20,304	27,675	2,515	52,767	68,348	(2,018)	
SFD Not Age Restricted	Dwelling Unit	\$11,714	\$20,305	\$20,305	\$27,675	\$2,514	\$52,768	\$68,347	\$(2,018)	
MFD Not Age Restricted	Dwelling Unit	6,440	10,512	10,512	15,533	1,192	29,690	38,356	(2,673)	
SFD Age Restricted	Dwelling Unit	N/A	6,728	6,728	N/A	N/A	N/A	N/A	308	
MFD Age Restricted	Dwelling Unit	N/A	5,491	5,491	N/A	N/A	N/A	N/A	(220)	
Nonresidential										
	<i>Cost per EDU >></i>	6,033	9,857	9,857	14,549	1,120	27,809	35,929	(2,485)	
General Commercial	Bldg. Sq. Ft.	1.06	(0.07)	(0.07)	3.43	(0.32)	6.74	8.45	(4.76)	
Hotel/Motel/B&B	Room	219	124	124	644	(27)	1,256	1,587	(654)	
Church	Bldg. Sq. Ft.	0.16	(0.13)	(0.13)	0.59	(0.09)	1.16	1.45	(1.02)	
Office/Medical	Bldg. Sq. Ft.	1.02	0.28	0.82	2.89	(0.06)	5.62	7.14	(2.50)	
Industrial/Warehouse	Bldg. Sq. Ft.	1.56	2.71	2.71	3.69	0.33	7.05	9.13	(0.27)	
Difference - Percent										
Residential	<i>Cost per EDU >></i>	246%	96%	96%	572%	52%	680%	568%	(7%)	
SFD Not Age Restricted	Dwelling Unit	246%	96%	96%	572%	52%	680%	568%	(7%)	
MFD Not Age Restricted	Dwelling Unit	218%	80%	80%	518%	40%	618%	514%	(14%)	
SFD Age Restricted	Dwelling Unit	N/A	117%	117%	N/A	N/A	N/A	N/A	4%	
MFD Age Restricted	Dwelling Unit	N/A	104%	104%	N/A	N/A	N/A	N/A	(3%)	
Nonresidential										
	<i>Cost per EDU >></i>	218%	80%	80%	519%	40%	618%	515%	(14%)	
General Commercial	Bldg. Sq. Ft.	75%	(1%)	(1%)	240%	(23%)	293%	237%	(53%)	
Hotel/Motel/B&B	Room	99%	13%	13%	287%	(12%)	349%	284%	(46%)	
Church	Bldg. Sq. Ft.	57%	(11%)	(11%)	211%	(32%)	258%	207%	(58%)	
Office/Medical	Bldg. Sq. Ft.	112%	6%	20%	311%	(7%)	380%	310%	(43%)	
Industrial/Warehouse	Bldg. Sq. Ft.	244%	96%	96%	568%	52%	684%	571%	(7%)	

Sources: Table 22.