ORDINANCE NO. 1986

AN ORDINANCE OF THE CITY OF SANTA CLARA, CALIFORNIA, AMENDING SECTION 17.15.330 OF "THE CODE OF THE CITY OF SANTA CLARA, CALIFORNIA" RELATED TO TRAFFIC IMPACT FEES

BE IT ORDAINED BY THE CITY OF SANTA CLARA AS FOLLOWS:

WHEREAS, Section 17.15.330 of the Code of the City of Santa Clara, California, authorizes the City Council to designate areas of the City within which a "Traffic Impact Fee" will be imposed upon new development;

WHEREAS, the Traffic Impact Fee currently applies to new office, industrial, hotel and motel uses;

WHEREAS, in 2017, the City contracted with Hexagon Transportation Consultants, Inc. to complete a comprehensive review and analysis of the City's existing Traffic Mitigation Program;

WHEREAS, the Department of Public Works has prepared a report entitled "SANTA CLARA TRAFFIC IMPACT FEE NEXUS STUDY" (the "Study"), which includes the updated report prepared by Hexagon Transportation Consultants, Inc., and is on file in the Office of the City Clerk, available for public inspection, and incorporated herein by this reference; WHEREAS, the Study proposed expanding the uses for which the fee applies to include retail, single-family residential, and multi-family residential;

WHEREAS, the Study recommends fee levels be adjusted annually in order to keep up with construction costs and inflation;

WHEREAS, the Study recommends certain development projects be exempt from paying the traffic impact fee;

WHEREAS, on July 17, 2018, the City of Santa Clara adopted Resolution No. 18-8584 making findings in accordance with Government Code 66000 et seq., and adopting the Study and setting the traffic impact fees; and,

WHEREAS, the City desires to update the City Code in order to implement the recommendations in the Report.

NOW THEREFORE, BE IT FURTHER ORDAINED BY THE CITY OF SANTA CLARA, AS

SECTION 1: That Subsections 17.15.330(b)(8) through 17.15.330(b)(13) of Section 17.15.330 ("Traffic Impact Fees") of Chapter 17.15 ("Property Developments") of Title 17 ("Development") of "The Code of the City of Santa Clara, California" ("SCCC") are hereby replaced with new Subsections 17.15.330(b)(8) through 17.15.330(b)(16) to read as follows:

"(8) "Office/R&D use," in general, means any structure or portion thereof intended for occupancy by a business entity which will primarily provide clerical, professional or business services, and/or research and development activities for the business itself, or which will primarily provide clerical, professional or business services, and/or research and development activities to the public or other business entities. The structure or portion thereof may also include light fabrication areas in the manner of conducting business. The determination will be made from the uses identified as an Office/R&D use in the traffic impact fee schedule.

(9) "Peak traffic hours" means 4:00 P.M. to 7:00 P.M.

(10) "Person" means any individual, domestic stock company, partnership of any kind, joint venture, club, business or common law trust, society, legal entity, or any other manner of owning property or conducting business.

(11) "Retail use" means an establishment that buys and sells commodities and services with off-street parking provided on the site. This includes a group of establishments that is planned, developed, owned and managed as a unit.

(12) "Residential use, Multi-family" means a building or portion thereof used and designed as a residence for two or more families living independently of each other, including apartment houses, apartment hotels, and flats, but not including automobile courts, motels, hotels, or boarding houses. Each unit in the structure is separated from other units by one or more common, fire-resistant walls.

(13) "Residential use, Single-Family" means a detached building, including sleeping, eating, cooking and sanitation facilities, which constitutes an independent housekeeping unit on an individual lot designed for and/or occupied by one household.

(14) "Square feet" or "square footage" means the square feet on each floor of a building, measured to the outside surfaces of exterior walls, and will include, but not be limited to, rooms, offices, work areas, restrooms, halls, stairways, elevator shafts, service and mechanical equipment rooms, basement, closet, cellar or attic areas. Parking facilities accessory to a permitted or conditional use and located on the same site are excluded from gross square footage calculations.

(15) "Traffic impact fee schedule" refers to the document, as amended from time to time, on file in the City's Public Works Department used to determine applicability of the traffic impact fees to particular land uses. If a proposed building use, or use within a portion of the building, does not fall under a use listed in said schedule, but, in the Director of Public Works or City Engineer's opinion, closely corresponds to a use listed in said schedule, the traffic impact fees will be imposed.

(16) "Warehousing, Utilities and Communications use" means any structure or portion thereof primarily used for the storage of materials or containing electromechanical and/or industrial space/equipment or facilities used for radio, cellular, television, radar transmissions or any similar technology development yet unforeseen. This includes data centers."

SECTION 2: That Subsection 17.15.330(c)(1) ("Imposition of Fee") of Subsection 17.15.330(c) ("Imposition of Traffic Impact Fees") of Section 17.15.330 ("Traffic Impact Fees") of Chapter 17.15 ("Property Developments") of Title 17 ("Development") of "The Code of the City of Santa Clara, California" ("SCCC") is hereby amended to read as follows:

"(1) Imposition of Fee. Traffic impact fees, for the area(s) designated by resolution of the City Council and at the rates set forth by resolution of the City Council, are hereby imposed upon every person (person having equitable or legal title, or other interest as owner, lessee, or otherwise) who causes new development, as defined hereinabove, to be used for office/R&D; warehousing, utilities and communications; industrial;, hotel or motel; retail; single-family residential; or multi-family residential usage, as each is defined herein.

Mixed uses within a building or on a particular floor will have the traffic impact fees imposed on the area devoted to each use category of the traffic impact fee schedule as determined by the City Engineer. The floor space not in actual use, i.e., restrooms, hallways, etc., will be prorated for imposition of traffic impact fees on the basis of the mixed-use situation existing in the remainder of the building or on the floor."

SECTION 3: That Subsection 17.15.330(c)(2) ("Exceptions") of Subsection 17.15.330(c) ("Imposition of Traffic Impact Fees") of Section 17.15.330 ("Traffic Impact Fees") of Chapter 17.15 ("Property Developments") of Title 17 ("Development") of "The Code of the City of Santa Clara, California" ("SCCC") is hereby amended to add subsection (C) to read as follows:

"(C) Other uses exempted by City Council resolution."

SECTION 4: That Subsection 17.15.330(c)(4) ("Periodic Adjustments to Traffic Impact Fees") of Subsection 17.15.330(c) ("Imposition of Traffic Impact Fees") of Section 17.15.330 ("Traffic Impact Fees") of Chapter 17.15 ("Property Developments") of Title 17 ("Development") of "The Code of the City of Santa Clara, California" ("SCCC") is hereby amended to read as follows:

"(A) Periodic Adjustments to Traffic Impact Fees. The traffic impact fees shall be adjusted periodically to reflect the current status of traffic impact requirements, projected development square footage, construction and land costs, and other factors. The Director of Public Works or City Engineer shall make an annual review, or more frequent review if he/she deems it necessary, of the traffic mitigation program and make recommendations for amendment, if any. Among the purposes of said periodic review will be the adjustment of the traffic impact fee schedule in light of the traffic mitigation program scope and costs. The review will be submitted with recommendations to the City Council. After receiving said report and making it available for public distribution and review, the City Council shall give notice and no less than ten days after public notice has been given, conduct a public hearing in which it shall consider these reports, receive testimony and information from any interested members of the public, and receive such other evidence as it may deem necessary. At the conclusion of that hearing, the City Council shall determine what changes, if any, are to be made to the traffic mitigation program with respect to projections of new development, the traffic system projects proposed, the estimated cost of construction, and/or adjustments to the traffic impact fees.

(B) Annual Escalator. Unless otherwise modified by the City Council, traffic impact fees will automatically adjust for inflation annually at the start of each fiscal year, using the latest Construction Cost Index for San Francisco, published by Engineering News Record (ENR). If this index ceases to exist, the Director of Public Works shall substitute another construction cost index, which in his or her judgment is as nearly equivalent to the original index as possible. The automatic fee adjustment will occur when the City conducts its annual update of the municipal fee schedule, unless it is otherwise modified by the City Council during their approval of the municipal fee schedule."

SECTION 5: **Savings clause**. The changes provided for in this ordinance shall not affect any offense or act committed or done or any penalty or forfeiture incurred or any right established or accruing before the effective date of this ordinance; nor shall it affect any prosecution, suit or proceeding pending or any judgment rendered prior to the effective date of this ordinance. All fee schedules shall remain in force until superseded by the fee schedules adopted by the City Council. **SECTION 6**: **Effective date**. This ordinance shall take effect thirty (30) days after its final adoption; however, prior to its final adoption it shall be published in accordance with the requirements of Section 808 and 812 of "The Charter of the City of Santa Clara, California." PASSED FOR THE PURPOSE OF PUBLICATION this 17th day of JULY, 2018, by the following vote:

AYES:

Davis, Kolstad, Mahan, O'Neill, and Watanabe and Mayor Gillmor

NOES: ABSENT:

ABSTAINED:

COUNCILORS:

COUNCILORS:

COUNCILORS:

COUNCILORS:

None

None

None

ATTEST:

JENNIFER YAMAGUMA ACTING CITY CLERK CITY OF SANTA CLARA

Attachments incorporated by reference:

1. Santa Clara Traffic Impact Fee Nexus Study





Santa Clara Traffic Impact Fee Nexus Study

AB 1600 Traffic Mitigation Program Update

Prepared for:

July 5, 2018

City of Santa Clara



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Hexagon Transportation Consultants, Inc.

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Executive Summary

This report presents the results of an AB 1600 nexus study prepared to update the City of Santa Clara's existing traffic impact fee program. The City of Santa Clara established its Traffic Mitigation Program, including impact fees, in 1988, and has revised it several times since then. This revision will be referred to as Phase D of that program. The purpose of this study is to allow the City to make the necessary findings in accordance with AB 1600 in order to revise its Traffic Mitigation Program (TMP).

The City currently only charges traffic impact fees in the portion of the City that is north of the Caltrain tracks. The most recent modification to the fees charged in the Traffic Mitigation Program was in 2010. The rates approved at that time and still in effect today are as follows:

- Office and R&D: \$1.00 per square foot
- Industrial: \$0.67 per square foot
- Warehousing, Utilities and Communications: \$0.20 per square foot
- Hotel/Motel: \$400.00 per room

Projected Growth and Its Impacts

The source of this study's projections of future growth, the number of PM peak hour trips that would be generated by that growth, and the transportation impacts resulting from that growth is the *City Place Santa Clara Final Environmental Impact Report* ("City Place EIR") published in April 2016. This nexus study is based on the Cumulative Plus Project scenario of that EIR, which includes growth projections for the year 2040 for the entire region, including all of Santa Clara, as well as the City Place project. The travel demand forecasting model used in the City Place EIR projected an additional 31,520 PM peak hour trips with origins and/or destinations in Santa Clara, compared with existing conditions.

This nexus study presents the level of service analysis for 60 signalized study intersections from the City Place EIR. Of the 60 intersections, there are 38 intersections that would operate at an unacceptable level of service. Of those 38 intersections, City Place is 100% responsible for implementing or paying for the mitigation measures that have been identified for 17 of them. Thus, there will be no need to use impact fees for improvements at those 17 intersections.

Traffic Impact Fee Improvements

The City has proposed a very broad range of improvements in its list of projects to mitigate or offset, to the extent feasible, the impacts of increased congestion caused by future growth. Projects that were previously included in the City's Traffic Mitigation Program but have not yet been completed are carried



forward and included on the list. New projects include capacity enhancements at specific locations, projects that would improve traffic operations, and improvements designed to improve bicycle and pedestrian facilities and increase alternative mode use. The development of a balanced multimodal transportation network is consistent with the City's General Plan and Climate Action Plan.

Improvements proposed for funding through the City's Multimodal Improvement Plan (MIP), which is being prepared in parallel with this nexus study and contemplates establishing a separate impact fee, are not included in the TMP project list.

The total cost of the improvements is \$59,989,268, and the amount to be funded with TMP impact fees could be up to \$52,289,075, which leaves a minimum of \$7,700,193 to be funded by the City. After deducting the impact fees that have already been expended on these projects and the current balance of traffic impact fees held by the City, the amount needed from future impact fees in order to complete the projects is up to \$37,223,018.

Options for Phase D Traffic Mitigation Program

The basis of Santa Clara's traffic impact fee is the number of net new PM peak hour vehicle trips generated by new development. Those additional trips result in the traffic impacts the fee is intended to mitigate. The fee is calculated by dividing the total cost of the projects in the Traffic Mitigation Program by the number of additional PM peak hour trips generated by new development, which results in a "per PM peak hour trip" fee amount.

This nexus study examines the following five options for revising the Traffic Mitigation Program:

Option 1: Status Quo. Continue to charge a TIF only north of the Caltrain tracks and on the same land uses that are currently subject to the fee. No expansion of area or land uses subject to the TIF.

Option 2: Same area plus residential and retail. Continue to charge the TIF only north of the Caltrain tracks. Expand the land uses subject to the TIF to include residential and retail development.

Option 3: Citywide and existing land uses only. Expand the area subject to the TIF to the entire city, but continue to exempt both residential and retail uses from the TIF.

Option 4: Citywide plus residential. Expand the area subject to the TIF to the entire city, and expand the land uses subject to the TIF to include residential development.

Option 5: Citywide plus residential and retail. Expand the area subject to the TIF to the entire city, and expand the land uses subject to the TIF to include residential and retail development.

Using the travel demand forecasting model that was used in the City Place EIR, the number of PM peak hour trips associated with each of the five options was estimated. Table ES-1 presents the number of additional PM peak hour trips associated with each of the five impact fee options under consideration. The impact fee amount "per PM peak hour trip" was calculated based on Option 5, which establishes a citywide nexus between the number of trips and the cost of improvements. If the impact fee is charged to only a subset of land uses or in just part of the City, the amount collected would be less, and the City share of the improvement costs would increase.



Table ES-1Impact Fees per PM Peak Hour Trip for Five Options

	Net New PM Peak Hour	Impact Fee per	Fees	City	
Impact Fee Option	Trips	PM Peak Hour Trip ¹	Collected	Share	Total
1 Status Quo: Same area, same land uses	12,639	\$1,181	\$14,926,659	\$29,996,552	\$44,923,211
2 Same area, add residential and retail	24,851	\$1,181	\$29,349,031	\$15,574,180	\$44,923,211
3 Expand area, same land uses	16,031	\$1,181	\$18,932,611	\$25,990,600	\$44,923,211
4 Expand area, add residential	23,037	\$1,181	\$27,206,697	\$17,716,514	\$44,923,211
5 Expand area, add residential and retail	31,520	\$1,181	\$37,223,018	\$7,700,193	\$44,923,211
es					

Proposed Impact Fee Program

For simplicity of application, the City has chosen in the past to convert the amount of the per PM peak hour trip fee to a fee per square foot, per hotel room, or per dwelling unit, based on the trip generation rates in the ITE *Trip Generation Manual*. A new edition of the ITE *Trip Generation Manual* was published in 2017 with revised rates for many land uses, based on recent traffic studies, and these rates have been applied to the "per trip" amounts associated with each of the five fee options.

Therefore, the changes in fees, when compared to the existing fees, are due to multiple factors: the changes in ITE trip generation rates, the amount to be funded through the impact fee, and the number of PM peak hour trips associated with each option. Table ES-2 presents the calculated impact fees associated with each of the five options under consideration.

Other recommendations presented for Santa Clara's Traffic Mitigation Program include:

• **Retail Use Fees**: If the City is interested in including at least some retail uses in its impact fee program (Options 2 and 5), it may wish to consider exempting smaller neighborhood-serving stores from the proposed TIF (e.g. individual retail establishments under 50,000 s.f.). Because the trip generation rate during the PM peak hour for retail uses is high, the calculated fees for

Table ES 2Impact Fees for Common Land Uses for Five Options

	ITE	ITE Trip Generation	Unit of	Current			TIF Options		
Land Use	Category	Rate ¹	Measure	Impact Fee	1	2	3	4	5
Impact Fee per PM Peak Hour Trip					\$1,181	\$1,181	\$1,181	\$1,181	\$1,181
Office/R&D	710	1.15	s.f.	\$1.00	\$1.36	\$1.36	\$1.36	\$1.36	\$1.36
Industrial	110	0.63	s.f.	\$0.67	\$0.74	\$0.74	\$0.74	\$0.74	\$0.74
Warehousing, Utilities, Communications	150	0.19	s.f.	\$0.20	\$0.22	\$0.22	\$0.22	\$0.22	\$0.22
Hotel/Motel	310	0.60	Room	\$400.00	\$708.60	\$708.60	\$708.60	\$708.60	\$708.60
Multi-Family Residential ²	221	0.44	d.u.	n.a.	n.a.	\$519.64	n.a.	\$519.64	\$519.64
Single-Family Residential	210	0.99	d.u.	n.a.	n.a.	\$1,169.19	n.a.	\$1,169.19	\$1,169.19
Retail ³	820	3.81	s.f.	n.a.	n.a.	\$4.50	n.a.	n.a.	\$4.50
City Share				\$33,383,000	\$29,995,000	\$15,578,000	\$25,992,000	\$17,721,000	\$7,700,000
Notes:									
(1) All trip generation rates are average rate	ates for the F	PM peak hour f	from Institute	of Transportati	on Engineers, T	rip Generation Ma	nual, 10th Edition	(2017).	
Rates for offices (710), industrial (110)), warehousi	ng (150), and i	retail (820) ar	e per thousand	square feet. Fe	ee levels for these	uses are provided	d per square foot	
for ease of comparison with the City's	0								
(2) The City may exempt affordable hous				and BMR units	in excess of the	City's requirement	t) from this fee.		
(3) The City may exempt retail projects u	inder 50,000	s.f. from this f	ee.						

retail (as shown in Table ES-2) are correspondingly high. Because neighborhood-serving retail typically reduces Vehicle Miles Traveled (VMT) despite its high trip generation rate, and because retail generates sales tax for the City, Hexagon recommends an exemption for individual retail establishments below 50,000 s.f.. Many other cities in the region provide a similar exemption for smaller retail projects or reduce the impact fee rate that is charged on retail developments.

- Exempting Affordable Housing from the TIF: If the city is interested in including residential uses in the impact fee program (Options 2, 4, and 5), it may wish to consider an exemption for any affordable housing units built as part of a development as defined by City Code Section 17.40. The purpose of this exemption would be to encourage construction of affordable housing units in Santa Clara.
- Indexing the TIF: Since all of the improvements to be funded with the TIF are capital projects for which cost estimates will increase with time, indexing the TIF would allow the fees collected to also increase over time in order to keep up with construction costs. Without annual adjustments to keep pace with inflation, the impact fees collected over the years will not be sufficient to implement the Phase D projects without preparing a new nexus study to raise the rates. It is strongly recommended that the impact fee levels be automatically adjusted annually, subject to City Council approval prior to the start of each fiscal year, in line with the Construction Cost Index. Many other cities in the region adjust their traffic impact fees in accordance with the Construction Cost Index at the start of each fiscal year when they adopt a revised fee schedule for other municipal purposes.
- Applying the TIF to Vacant Parcels and on Changing Land Uses: If a site has been vacant for at least two years, then it is recommended that any new development project on that site be subject to the appropriate TIF, and that no credit for existing uses be given when calculating the TMP impact fee. Hexagon also recommends that the TIF be applied when the land use on a given parcel changes, due to the wide variation in trip generation rates for different uses. The TIF for changing land uses would be triggered when a permit for construction, a zoning change, or a conditional use permit is required.
- Meeting AB 1600 Requirements: The City should continue to follow the requirements of the Mitigation Fee Act (AB 1600) with regard to reporting annually on expenditures from the TIF fund (Fund 525 in the City Capital Improvement Budget) and making findings regarding a continuing need for any funds that are unexpended and uncommitted five or more years after deposit of such fees.



1. Introduction

This report presents the results of a nexus study prepared to update the City of Santa Clara's existing traffic impact fee program. Development impact fees are commonly used throughout California to require new development to pay for the needs that it creates. The City of Santa Clara currently charges six development impact fees, for such purposes as traffic mitigation, sanitary sewers, storm drains, and parkland. The purpose of this study is to allow the City to make the necessary findings in order to revise its existing Traffic Mitigation Program.

Development Impact Fees in California

The Mitigation Fee Act (Government Code Sections 66000-66025) was originally enacted through Assembly Bill 1600 in 1987 and requires that a reasonable relationship (nexus) be established between the projects or mitigations to be funded by an impact fee and the impacts caused by new development. Impact fees are one-time fees that are charged by a local government agency and are distinct from taxes and special assessments. When imposing an impact fee as a condition of approval of a development project, a local agency must make the following findings:

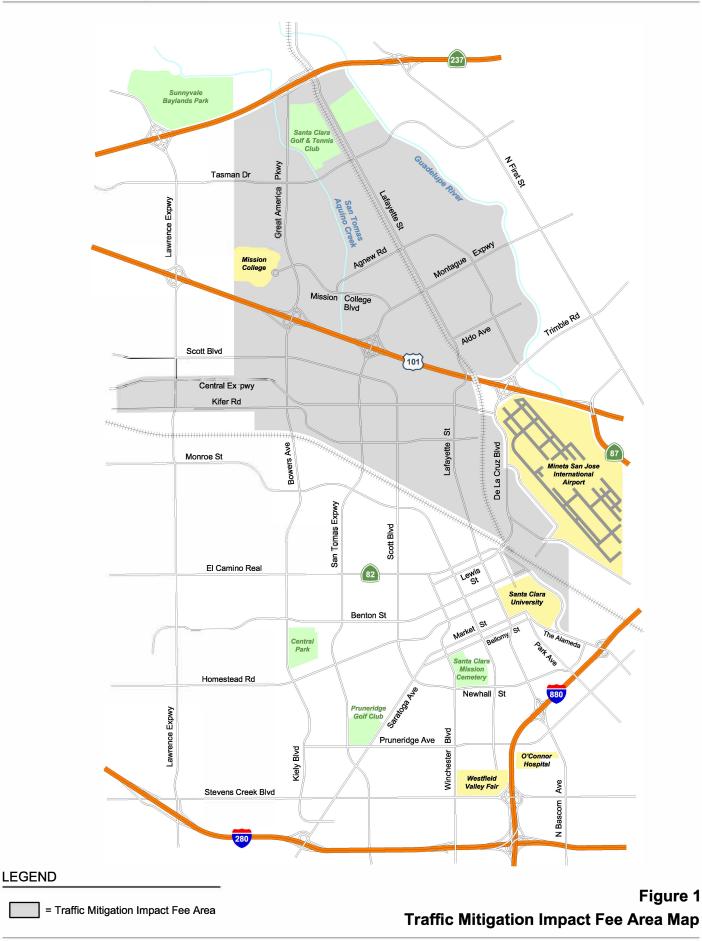
- Identify the purpose of the fee;
- Identify the use to which the fee is to be put;
- Determine how there is a reasonable relationship between the need for the public facility and the type of development project on which the fee is imposed;
- Determine how there is a reasonable relationship between the amount of the fee and the cost of the public facility or portion of the public facility attributable to the development on which the fee is imposed.

This study provides the necessary evidentiary basis to support these findings.

Traffic Mitigation Program History

The City of Santa Clara established a Traffic Mitigation Program (TMP) in 1988 in order to finance traffic improvements resulting from current and projected traffic demands. The initial phase of the TMP, known as Phase A, included two financing mechanisms. An assessment district was created to fund the share of traffic improvement costs associated with existing development (60 percent), while an impact fee was established to fund the share of traffic improvement costs associated with existing development (60 percent), while an impact fee was established to fund the share of traffic improvement costs associated with new development (40 percent). The traffic mitigation assessment district and impact fees were applied to the City's primary growth area, which is north of the Caltrain tracks. Because of their beneficial effect on traffic conditions in the northern part of the City, residential and retail uses were not subject to traffic impact fees. The area subject to the City's traffic impact fees, both in 1988 and today, is shown in Figure 1.









In 1997, the City Council approved Phase B of the TMP, which continued the collection of impact fees at the same rates as established in Phase A in 1988. Assessment district levies were discontinued in Phase B as new development was expected to account for all of the traffic growth and associated needs for improvements.

In February 2009, the City Council approved Phase C of the TMP, which continued the imposition of traffic mitigation impact fees on new development at rates equal to those established in the previous phases. The City planned to use other sources of funding, such as fair share contributions from developers and local, state, and/or federal grants, to complete the funding of project costs.

In 2010, the City Council modified the impact fee rates charged to some land uses in order to be consistent with updated trip generation rates in the Institute of Transportation Engineers' *Trip Generation Manual*, 8th Edition, 2008. The rates approved at that time and still in effect today are as follows:

- Office and R&D: \$1.00 per square foot
- Industrial: \$0.67 per square foot
- Warehousing, Utilities and Communications: \$0.20 per square foot
- Hotel/Motel: \$400.00 per room

The City may modify the Traffic Mitigation Program from time to time to increase or decrease fees, alter project schedules, modify, phase, delete or expand projects and modify the Program boundaries.

As required by AB 1600, the City prepares an annual report on its development impact fees every year. According to the "AB 1600 Report on Development Impact Fees for Fiscal Year Ended June 30, 2017," the ending balance in Fund 525 (where traffic impact fees are held) as of 6/30/2017 was \$8,711,428.

The city's annual report for fiscal year ended 6/30/17 also noted that \$2,404,289 had been held for over five years, but that those funds were committed to projects identified on the Traffic Mitigation Fee project list. AB 1600 requires cities to refund impact fees that are still unexpended or uncommitted five or more fiscal years after deposit of such fees. Because all of the traffic impact fees held more than five years have been appropriated to specific projects, those funds may be retained by the City.

Report Organization

The remainder of this report addresses the following steps in order to make the necessary findings for updating the City's traffic impact fee program:

- 1. The level of future growth in Santa Clara in terms of residential dwelling units and new jobs is projected;
- 2. The number of PM peak hour vehicle trips that would be generated by that growth is estimated;
- 3. The transportation impacts or deficiencies caused by those additional PM peak hour trips are identified;
- 4. Projects that would mitigate or offset those impacts or deficiencies to the extent feasible are identified;
- 5. The cost of those projects is estimated;
- 6. A proposed impact fee to be charged to future growth is calculated.



The source of this study's projections of future growth, the number of PM peak hour trips that would be generated by that growth, and the transportation impacts resulting from that growth is the *City Place Santa Clara Final Environmental Impact Report* ("City Place EIR") published in April 2016.

Subsequent chapters address the following topics:

Chapter 2 covers the City's projected growth, the trips it would generate, and the projected impacts resulting from those additional trips.

Chapter 3 presents the improvements and projects that would mitigate or offset those impacts that are proposed for funding with the traffic impact fee.

Chapter 4 examines five different options for the traffic impact fee. The five options present variations based on expanding the area subject to the fee from the current area north of the Caltrain tracks to a citywide basis and/or expanding the land uses subject to fee to include residential and retail uses. The fee level for per PM peak hour trip for each option is calculated.

Chapter 5 presents the fee levels for common land uses for each of the five options, based on their respective per PM peak hour trip amounts. Recommendations for the impact fee program, such as a policy on indexing the fee to the Construction Cost Index, are also included.

2. Projected Growth and Its Impacts

This chapter describes the level of growth projected to occur in Santa Clara through the horizon year of 2040, the number of PM peak hour vehicle trips expected to be generated by that growth, and the transportation impacts resulting from those additional motor vehicle trips.

Projected Development and Increase in Peak Hour Vehicle Trips

The basis of this nexus study is the City Place EIR, which was comprehensive in scope and included a total of 125 study intersections in Santa Clara and adjacent jurisdictions. The projections of future conditions in that EIR were made with the VTA travel demand forecasting model, which is the best tool available for developing long-range traffic forecasts for Santa Clara and the surrounding jurisdictions, especially for very large projects such as City Place. The Cumulative with Project conditions scenario in the City Place EIR includes 2040 traffic volumes based on build-out of Santa Clara's General Plan, build-out of the City Place project, ABAG 2040 land use projections, and the planned and funded transportation system improvements for 2040 in VTA's Valley Transportation Plan. Existing conditions in the City Place EIR are represented by the year 2015, so the projected increases in residents, jobs, and vehicle trips are the difference between 2040 conditions and 2015 conditions.

The travel demand forecasting model estimated that there would be 22,846 new housing units, housing 61,394 new residents, and 63,897 new jobs in the City of Santa Clara under the Cumulative with Project scenario in the City Place EIR. The model projected an additional 31,520 PM peak hour trips with origins and/or destinations in Santa Clara, compared with existing conditions. These peak hour trip numbers include the additional trips attributable to the City Place project, as well as other future development projects within Santa Clara. These projections do not include trips for which both the origin and the destination are outside Santa Clara and are "pass through" trips of a regional nature.

Level of Service Standards

Traffic conditions at intersections are evaluated using level of service (LOS), which is a qualitative description of operating conditions ranging from LOS A, or free-flow conditions with little or no delay, to LOS F, or jammed conditions with excessive delays.

The City of Santa Clara's level of service standard for City-controlled signalized intersections that are not a part of the Congestion Management Program (CMP) network is LOS D or better. The standard for CMP intersections and intersections controlled by the Santa Clara County Department of Roads and



Airports (expressway intersections) is LOS E. The City has not adopted an LOS standard for unsignalized intersections.

Existing and Future Intersection Levels of Service

The level of service analysis under existing and future traffic conditions at 64 of the 125 study intersections included in the City Place EIR are summarized in Table 1. All data presented in Table 1 is taken from Appendix 5.1, "Updated Transportation Tables" to the City Place Final EIR, Table 3.3-49 "Cumulative with Project Signalized Intersection LOS Results" and Table 3.3-51 "Cumulative with Project Unsignalized Intersection LOS Results." For ease of reference, the study intersection number used in the City Place EIR is shown in Table 1.

The 64 intersections (60 signalized and 4 unsignalized) shown in Table 1 were chosen for inclusion in this nexus study based on the following criteria:

- Santa Clara location: Intersections outside Santa Clara were excluded since impact fees are
 intended to be spent on local improvements within Santa Clara. Intersections that are on a city
 boundary are included because the City may choose to use impact fees for its share of any
 improvements costs. Of the 125 study intersections in the City Place EIR, 78 are located wholly
 or partially in Santa Clara.
- **Currently existing intersections**: The City Place EIR included seven intersections that will be located at the site of future driveways. These future intersections do not currently exist and are not included here.
- Not subject of a Multimodal Improvement Plan: The City of Santa Clara is currently preparing a Multimodal Improvement Plan (MIP), as required by VTA, for seven CMP intersections that were identified as having significant and unavoidable impacts in the City Place EIR. Because these intersections will be included in the MIP and a separate impact fee will be developed for them, the following seven intersections are not included in Table 1.
 - Great America Parkway and Tasman Drive
 - o Great America Parkway and Mission College Boulevard
 - o Agnew Road/De La Cruz Boulevard and Montague Expressway
 - Scott Boulevard and Central Expressway
 - De La Cruz Boulevard and Central Expressway
 - San Tomas Expressway and Monroe Street
 - o Lafayette Street and El Camino Real

Intersections that include a County expressway are included in Table 1 since the City may choose to use impact fees to fund the required local match for expressway improvements or for improvements to the local approaches to expressway facilities. Four unsignalized intersections in Santa Clara are also included, since the City has chosen to use impact fees in the past to signalize intersections.

As shown in Table 1, there are two intersections that currently operate at unacceptable levels of service during at least one peak hour:

- Lawrence Expressway and Reed Avenue-Monroe Street: LOS F in AM peak hour
- Lawrence Expressway and Benton Street: LOS F in AM peak hour

All of the other intersections currently operate at acceptable levels of service under existing conditions. According to state law, impact fees may not be used to remedy existing transportation deficiencies.



Existing and Future Intersection Levels of Service

			Ex	isting	Cumu	lative ¹
EIR		Peak	Avg.		Avg.	
#	Intersections	Hour	Del.	LOS	Del.	LOS
Siar	alized Intersections					
<u> 6</u>	Patrick Henry Drive & Tasman Drive	AM	12.1	в	24.0	С
0	r allek henry blive & rasilian blive	PM	13.2	В	24.0	c
7	Old Ironside Drive & Tasman Drive	AM	13.2	B	21.0	C
		PM	12.7	В	25.5	C
9	Convention Center & Tasman Drive	AM	16.2	B	131.0	F
		PM	20.2	С	163.4	F
11	Centennial Blvd & Tasman Drive	AM	19.8	В	167.9	F
		PM	19.8	В	>180	F
13	Calle Del Sol & Tasman Drive	AM	10.6	В	127.1	F
		PM	17.5	В	100.4	F
14	Lick Mill Blvd & Tasman Drive	AM	22.1	С	>180	F
		PM	24.4	С	>180	F
21	Mission College Blvd & Montague Expwy*	AM	79.5	Е	>180	F
		PM	76.1	E	175.0	F
23	Lick Mill Blvd & Montague Expwy	AM	21.4	С	65.8	E
		PM	22.0	С	103.5	F
51	Lawrence Expwy & Kifer Road	AM	27.7	C	92.0	F
= 0		PM	50.5	D	106.8	F
52	Lawrence Expwy & Reed Ave-Monroe St*	AM	98.2	F	>180	F
50		PM	76.2	E	>180	F
53	Lawrence Expwy & Cabrillo Ave	AM	44.0	D	115.3	F
F 4	Lauranaa Evalus 8 Dantas Ct	PM	47.1	D	125.9	F
54	Lawrence Expwy & Benton St	AM PM	80.6 47.3	F D	141.9 140.2	F
55	Lawrence Expwy & Homestead Rd*	AM	73.5	E	140.2	F
55	Lawrence Expwy & Homestead Ru	PM	73.3 56.7	E	>180	F
56	Lawrence Expwy & Pruneridge Ave	AM	62.5	E	110.2	F
00		PM	48.5	D	159.5	F
58	Great America Pkwy & SR 237 Eastbound Ramps*	AM	10.9	В	61.7	E
		PM	8.6	Ā	27.4	c
59	Great America Pkwy & Yerba Buena Way	AM	27.0	С	76.9	E
		PM	31.4	С	165.9	F
60	Great America Pkwy & Old Mountain View-Alviso Rd	AM	19.2	В	91.0	F
		PM	26.6	С	113.1	F
63	Great America Pkwy & Bunker Hill Lane	AM	12.9	В	13.7	В
		PM	15.6	В	18.9	В
64	Great America Pkwy & Old Glory Lane	AM	20.1	С	168.3	F
		PM	24.4	С	>180	F
65	Great America Pkwy & Patrick Henry Dr	AM	19.7	В	65.1	Е
		PM	25.2	С	>180	F
67	Great America Pkwy-Bowers Ave & US 101	AM	18.7	В	18.8	В
	Northbound Ramps*	PM	12.6	В	15.4	В
68	Bowers Ave & US 101 Southbound Ramps*	AM	23.7	С	27.0	С
		PM	8.3	A	12.7	B
69	Bowers Ave & Augustine Drive	AM	31.5	С	43.0	D
70		PM	44.6	D	123.1	F
70	Bowers Ave & Scott Blvd*	AM	31.6	С	80.4	F
		PM	35.1	D	93.7	F



Table 1 (continued)Existing and Future Intersection Levels of Service

			Ex	isting	Cumu	lative ¹
EIR		Peak	Avg.		Avg.	
#	Intersections	Hour	Del.	LOS	Del.	LOS
71	Bowers Ave & Central Expwy*	AM	49.9	D	>180	F
		PM	64.6	Е	>180	F
72	Bowers Ave & Kifer Rd-Walsh Ave	AM	20.5	С	43.6	D
		PM	25.4	С	84.0	F
73	Bowers Ave & Monroe St	AM	33.2	С	37.1	D
74		PM	38.8	D	172.9	F
74	Bowers Ave & El Camino Real*	AM	30.4	С	81.1	F
75		PM	35.5	D	82.6	F
75	San Tomas Expwy & Scott Blvd*	AM	58.4	E	>180	F
76	San Tamaa Evour 8 Walah Ava	PM	66.2 60.2	E	111.8 >180	F
76	San Tomas Expwy & Walsh Ave	AM PM	48.0	D	137.1	F
78	San Tomas Expwy & El Camino Real*	AM	48.0 71.9	E	>180	F
10	San Tomas Expwy & El Camillo Real	PM	57.3	E	126.9	F
79	San Tomas Expwy & Benton St	AM	41.9	D	126.9	F
19	San Tomas Expwy & Benion St	PM	37.8	D	58.3	E
80	San Tomas Expwy & Homestead Rd*	AM	53.0	D	167.3	F
00	Call Tomas Explay & Homestead Nu	PM	57.9	E	120.4	F
81	San Tomas Expwy & Forbes Ave	AM	26.4	C	29.2	C
01	Call Tollias Expline a Tolbes Ave	PM	24.3	c	35.2	D
82	San Tomas Expwy & Pruneridge Ave	AM	69.1	E	>180	F
02		PM	50.8	D	87.5	F
83	San Tomas Expwy & Saratoga Ave*	AM	73.7	E	132.1	F
		PM	55.4	E	130.7	F
90	Lafayette Street & Calle De Luna	AM	15.5	В	105.5	F
		PM	19.2	В	26.4	С
91	Lafayette Street & Hogan Drive	AM	9.8	А	13.0	В
	, 3	PM	10.5	В	12.7	В
92	Lafayette Street & Eisenhower Drive	AM	10.4	В	34.9	С
		PM	8.1	А	9.5	А
93	Lafayette Street & Hope Drive	AM	20.5	С	29.6	С
		PM	13.7	В	29.1	С
94	Lafayette Street & Agnew Drive	AM	38.7	D	51.0	D
		PM	41.0	D	87.0	F
95	Lafayette Street & Palm Drive	AM	7.2	А	12.6	В
		PM	14.3	В	12.0	В
96		AM	34.1	С	111.5	F
	Ramps	PM	26.1	С	37.7	D
97	, , , , , , , , , , , , , , , , , , , ,	AM	14.0	В	13.2	В
	Ramps	PM	13.0	В	12.3	В
98	Lafayette Street & Central Expressway*	AM	60.5	E	>180	F
		PM	63.5	E	127.0	F
99	Lafayette Street & Walsh Ave	AM	12.7	В	16.1	B
100	Lafavetta Otract & Martin Ave	PM	19.2	B	21.9	C
100	Lafayette Street & Martin Ave	AM	20.0	B	24.9	C
104	Lafavotta Streat & Mathew St Manazav Dr	PM	19.6	B	26.4	C
101	Lafayette Street & Mathew St-Memorex Dr	AM	9.7	A	18.1	B
		PM	10.1	В	12.4	В



Table 1 (continued)

Existing and Future Intersection Levels of Service

Peak Hour AM PM AM PM AM PM AM PM AM PM AM PM	Avg. Del. 9.5 37.2 18.4 17.1 10.2 10.9 34.3 28.3 13.8 10.1	LOS A D B B B B C C C B	Avg. Del. 8.0 141.2 17.5 18.3 10.3 10.3 39.8 41.6	LOS A F B B B B B D
PM AM PM AM PM AM PM AM PM AM	37.2 18.4 17.1 10.2 10.9 34.3 28.3 13.8	D B B B C C	141.2 17.5 18.3 10.3 10.3 39.8	F B B B
AM PM AM PM AM PM AM PM AM	18.4 17.1 10.2 10.9 34.3 28.3 13.8	B B B C C	17.5 18.3 10.3 10.3 39.8	B B B B
PM AM PM AM PM AM PM AM	17.1 10.2 10.9 34.3 28.3 13.8	B B C C	18.3 10.3 10.3 39.8	B B B
AM PM AM PM AM PM	10.2 10.9 34.3 28.3 13.8	B B C C	10.3 10.3 39.8	B B
PM AM PM AM PM AM	10.9 34.3 28.3 13.8	B C C	10.3 39.8	В
AM PM AM PM AM	34.3 28.3 13.8	C C	39.8	
PM AM PM AM	28.3 13.8	С		D
AM PM AM	13.8		416	
PM AM		В		D
AM	10.1		13.4	В
	00.0	В	10.3	B
	26.6	С	23.6	С
PM	23.6	С	36.0	D
AM	10.4	В	10.6	В
				B
				A
				A
				B E
				F
				F
				F
				F
PM	59.9	E	147.8	F
ΔМ	96	Δ	46.8	D
				D
				F
				F
AM				В
				В
		В		В
PM	14.0	B	21.4	C
	PM AM PM AM PM AM PM AM PM AM PM AM PM AM PM AM PM	PM 17.4 AM 9.3 PM 8.2 AM 16.5 PM 16.0 AM 15.9 PM 16.7 AM 12.2 PM 14.3 AM 63.5 PM 59.9 AM 12.1 AM 14.1 PM 12.7 AM 13.8 PM 21.3 AM 12.9 PM 14.0	PM 17.4 B AM 9.3 A PM 8.2 A AM 16.5 B PM 16.0 B AM 15.9 B PM 16.7 B AM 12.2 B PM 14.3 B AM 63.5 E PM 59.9 E AM 9.6 A PM 21.1 C AM 14.1 B PM 12.7 B AM 13.8 B PM 21.3 C AM 12.9 B PM 14.0 B	PM 17.4 B 15.1 AM 9.3 A 7.4 PM 8.2 A 6.9 AM 16.5 B 16.7 PM 16.0 B 66.0 AM 15.9 B >180 PM 16.7 B >180 PM 16.7 B >180 PM 16.7 B >180 PM 16.7 B >180 PM 14.3 B 91.5 AM 63.5 E >180 PM 59.9 E 147.8 O AM 63.5 E >180 PM 59.9 E 147.8 50 AM 9.6 A 46.8 90.0 AM 12.7 B >150 AM 13.8 B 13.6 PM 21.3 C 12.3 AM 12.9 B 13.5

Of the 60 existing signalized intersections included in Table 1, there are 22 that would continue to operate at an acceptable level of service in the future. There are 38 signalized intersections that would operate at an unacceptable level of service. Of those 38 intersections, City Place is 100% responsible for implementing or paying for the mitigation measures that have been identified for 17 of them. Thus, there will be no need to use impact fees for improvements at those 17 intersections.



3. Traffic Impact Fee Improvements

This chapter presents the improvements proposed by the City to mitigate or offset to the extent feasible the impacts of increased congestion caused by future growth. The growth in demand for the transportation system will be accommodated by the development of a safe, efficient, and environmentally sensitive multimodal transportation system.

The City has proposed a very broad range of improvements in its list of projects to be funded through its Traffic Impact Fee. Projects that were previously included in the City's Traffic Mitigation Program but have not yet been completed are carried forward and included on the list. New projects include capacity enhancements at specific locations, projects that would improve traffic operations, and improvements designed to improve bicycle and pedestrian facilities and increase alternative mode use. By including numerous projects that will enhance the City's existing bicycle and pedestrian facilities and provide greater connectivity in the sidewalk and bikeways networks, the Traffic Mitigation Program seeks to provide infrastructure so that bicycling and walking become more attractive, safe, cost-competitive, and time-competitive choices. The development of a balanced multimodal transportation network is consistent with the City's General Plan and Climate Action Plan.

However, improvements proposed for funding through the City's Multimodal Improvement Plan (MIP), which is being prepared in parallel with this nexus study, are not included here. The Multimodal Improvement Plan also proposes a broad range of projects, and identifies a subset of those projects to be funded through a separate impact fee that would be imposed on development projects that generate trips that would use any of the seven deficient intersections for which Multimodal Mini-Plans are being prepared. As currently envisioned, there would be two separate transportation-related impact fees in the City of Santa Clara. One would be a continuation of the existing Traffic Mitigation Program (the subject of this report and referred to as the Phase D TMP impact fee) and one would be a new impact fee that would be charged only to development projects with trips that would go through one or more of the seven intersections included in the MIP (referred to as the MIP impact fee).

To avoid double-charging a developer for the same improvements, there is no overlap between the list of projects to be funded through the TMP Impact Fee and the list of projects to be funded through the MIP impact fee. The TMP list, as shown in Table 2, includes three projects related to two of the MIP intersections (Great America Parkway / Mission College Blvd. and Lafayette Street / El Camino Real) because these projects were included in previous phases of the City's Traffic Mitigation Program. The specific improvements included in these projects (CIP project numbers 2621, 2630, and 2660, as shown on Table 2) are not included in the MIP impact fee project list.



Table 2 lists the improvements that will be funded through the TMP impact fee, the estimated cost of each improvement, and an estimate of the percentage and amount to be funded by the TMP impact fee. In some cases, the project cost estimates shown in Table 2 are greater than the current project appropriations in the City's current Capital Improvement Program Budget, because the values in Table 2 reflect the total project cost, including future year appropriations. The amount of impact fees that have been expended through 6/30/17 is also shown, as well as the remaining cost to be funded with impact fees. The total remaining cost to be funded with impact fees is used as the basis for calculating the proposed future impact fee amounts. All data in Table 2 are taken from the City of Santa Clara's "FY 2017-18 Capital Improvement Program Budget", the City's "AB 1600 Report on Development Impact Fees for Fiscal Year Ended 6/30/2017", or information provided by City staff.

As shown in Table 2, the total cost of the improvements is \$59,989,268, and the amount that could be funded with TMP impact fees is \$52,289,075. The difference of \$7,700,193 will be funded by sources other than the TIF. These sources include assessment districts, grants, and state and federal funding.

After deducting the impact fees that have already been expended on these projects and the current balance of traffic impact fees held by the City, the amount needed from future impact fees in order to complete the projects is \$37,223,018.

For those projects that will be funded by less than 100% impact fees, the balance may come from federal, state, county, or City funding. Direct developer funding will also fund a portion of the cost for a few of the listed improvement projects. The direct developer funding is generally set forth in individual development agreements and is intended to reflect a fair-share contribution towards significant project impacts. Fair share payments towards improvements that are included in the City's impact fee program are credited towards the project's TIF payment, in order to avoid double-charging developers for planned improvements. No credit is given for off-site improvements that are not included in the impact fee expenditure plan.

Table 2Traffic Mitigation Program Improvements: Phase D

america Bus Turn-Out ements - Great America Parkway in Avenue Widening 1 Off-ramp widening at GA Pkway College Blvd/ GAP Improvements ik Installation Program ce Expwy / Monroe St Improvements studies & Signal Needs Assessment ino Real / San Tomas Improvements Studies & Signal Needs Assessment ino Real / Lafayette Improvements Control Traffic Signal Upgrade Street / Chromite Dr Traffic Signal Sidewalks on San Tomas Expwy Pre-Emptors Signal Enhancements ian and Bicycle Facility Enhancements	Install last remaining bus turnout along GA Pkway At Mission College Blvd: Add 3rd WBLT, 3rd NBLT, SB thru Add third SB travel lane between Brokaw and City limits Widen SB and NB Hwy 101 off-ramps to GA Pkway Construct WBRT lane; increase LT pocket lengths on MCB Install missing sidewalk segments in residential and industrial areas Phase B: Provide additional WB travel lane Phase B: Add 2nd EBLT Needs assessment/upgrade of existing signal system Phase B: Add 2nd EBLT and 2nd WBLT on ECR Phase B: Add 2nd EBLT on ECR Upgrade signal system for surveillance and coordination Install traffic signal Install sidewalks on west side of expressway Design & install emergency vehicle pre-emptors Install new signals and video detection Construct sidewalks and bicycle facilities	* * * * * * * * * * * * * * * * * * * *	225,000 2,601,000 390,000 5,256,086 1,089,579 300,000 548,470 700,000 2,843,588 1,250,000 2,370,649 400,000 183,000 1,445,259	40% 40% 39% 40% 42% 90% 100% 59% 94% 88% 100% 67% 100%	\$\$\$\$\$\$\$	74,332 156,000 2,200,000 980,621 300,000 494,000 700,000 1,683,590 1,171,250	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	3,438 430,973 79 1,436 593,292 30,208 12,500 494,000 151,701 1,683,590 3,590	\$ 609,42 \$ 74,25 \$ 154,56 \$ 1,606,70 \$ 950,41 \$ 287,50 \$ - \$ 548,29 \$ - \$ 1,167,66
ements - Great America Parkway in Avenue Widening 1 Off-ramp widening at GA Pkway College Blvd/ GAP Improvements Ik Installation Program ce Expwy / Monroe St Improvements mas Expwy / Homestead Rd Improvements Studies & Signal Needs Assessment ino Real / San Tomas Improvements Control Traffic Signal Upgrade Street / Chromite Dr Traffic Signal Sidewalks on San Tomas Expwy Pre-Emptors Signal Enhancements	At Mission College Blvd: Add 3rd WBLT, 3rd NBLT, SB thru Add third SB travel lane between Brokaw and City limits Widen SB and NB Hwy 101 off-ramps to GA Pkway Construct WBRT lane; increase LT pocket lengths on MCB Install missing sidewalk segments in residential and industrial areas Phase B: Provide additional WB travel lane Phase B: Add 2nd EBLT Needs assessment/upgrade of existing signal system Phase B: Add 2nd EBLT and 2nd WBLT on ECR Phase B: Add 2nd EBLT on ECR Upgrade signal system for surveillance and coordination Install traffic signal Install sidewalks on west side of expressway Design & install emergency vehicle pre-emptors Install new signals and video detection	*****	2,601,000 190,000 390,000 5,256,086 1,089,579 300,000 548,470 700,000 2,843,588 1,250,000 2,370,649 400,000 183,000	40% 39% 40% 42% 90% 100% 59% 94% 88% 100% 67%	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,040,400 74,332 156,000 2,200,000 980,621 300,000 494,000 700,000 1,683,590 1,171,250 2,096,720	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	430,973 79 1,436 593,292 30,208 12,500 494,000 151,701 1,683,590 3,590	\$ 609,42 \$ 74,25 \$ 154,56 \$ 1,606,70 \$ 950,41 \$ 287,50 \$ - \$ 548,29 \$ - \$ 1,167,66
n Avenue Widening 1 Off-ramp widening at GA Pkway College Blvd/ GAP Improvements Ik Installation Program ce Expwy / Monroe St Improvements mas Expwy / Homestead Rd Improvements Studies & Signal Needs Assessment ino Real / San Tomas Improvements Control Traffic Signal Upgrade Street / Chromite Dr Traffic Signal Sidewalks on San Tomas Expwy Pre-Emptors Signal Enhancements	Add third SB travel lane between Brokaw and City limits Widen SB and NB Hwy 101 off-ramps to GA Pkway Construct WBRT lane; increase LT pocket lengths on MCB Install missing sidewalk segments in residential and industrial areas Phase B: Provide additional WB travel lane Phase B: Add 2nd EBLT Needs assessment/upgrade of existing signal system Phase B: Add 2nd EBLT and 2nd WBLT on ECR Phase B: Add 2nd EBLT on ECR Upgrade signal system for surveillance and coordination Install traffic signal Install sidewalks on west side of expressway Design & install emergency vehicle pre-emptors Install new signals and video detection	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	190,000 390,000 5,256,086 1,089,579 300,000 548,470 700,000 2,843,588 1,250,000 2,370,649 400,000 183,000	39% 40% 42% 90% 100% 59% 94% 88% 100% 67%	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	74,332 156,000 2,200,000 980,621 300,000 494,000 700,000 1,683,590 1,171,250 2,096,720	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	79 1,436 593,292 30,208 12,500 494,000 151,701 1,683,590 3,590	\$ 74,25 \$ 154,56 \$ 1,606,70 \$ 950,41 \$ 287,50 \$ - \$ 548,29 \$ - \$ 1,167,66
1 Off-ramp widening at GA Pkway College Blvd/ GAP Improvements Ik Installation Program ce Expwy / Monroe St Improvements Studies & Signal Needs Assessment ino Real / San Tomas Improvements ino Real / Lafayette Improvements Control Traffic Signal Upgrade Street / Chromite Dr Traffic Signal Sidewalks on San Tomas Expwy Pre-Emptors Signal Enhancements	Widen SB and NB Hwy 101 off-ramps to GA Pkway Construct WBRT lane; increase LT pocket lengths on MCB Install missing sidewalk segments in residential and industrial areas Phase B: Provide additional WB travel lane Phase B: Add 2nd EBLT Needs assessment/upgrade of existing signal system Phase B: Add 2nd EBLT and 2nd WBLT on ECR Phase B: Add 2nd EBLT on ECR Upgrade signal system for surveillance and coordination Install traffic signal Install sidewalks on west side of expressway Design & install emergency vehicle pre-emptors Install new signals and video detection	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	390,000 5,256,086 1,089,579 300,000 548,470 700,000 2,843,588 1,250,000 2,370,649 400,000 183,000	40% 42% 90% 100% 59% 94% 88% 100% 67%	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	156,000 2,200,000 980,621 300,000 494,000 700,000 1,683,590 1,171,250 2,096,720	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,436 593,292 30,208 12,500 494,000 151,701 1,683,590 3,590	\$ 154,56 \$ 1,606,70 \$ 950,41 \$ 287,50 \$ - \$ 548,29 \$ - \$ 1,167,66
College Blvd/ GAP Improvements Ik Installation Program ce Expwy / Monroe St Improvements studies & Signal Needs Assessment ino Real / San Tomas Improvements ino Real / Lafayette Improvements Control Traffic Signal Upgrade Street / Chromite Dr Traffic Signal Sidewalks on San Tomas Expwy Pre-Emptors Signal Enhancements	Construct WBRT lane; increase LT pocket lengths on MCB Install missing sidewalk segments in residential and industrial areas Phase B: Provide additional WB travel lane Phase B: Add 2nd EBLT Needs assessment/upgrade of existing signal system Phase B: Add 2nd EBLT and 2nd WBLT on ECR Phase B: Add 2nd EBLT on ECR Upgrade signal system for surveillance and coordination Install traffic signal Install sidewalks on west side of expressway Design & install emergency vehicle pre-emptors Install new signals and video detection	* * * * * * * * * * * * * * * * * * *	5,256,086 1,089,579 300,000 548,470 700,000 2,843,588 1,250,000 2,370,649 400,000 183,000	42% 90% 100% 90% 59% 94% 88% 100% 67%	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,200,000 980,621 300,000 494,000 700,000 1,683,590 1,171,250 2,096,720	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	593,292 30,208 12,500 494,000 151,701 1,683,590 3,590	\$ 1,606,70 \$ 950,41 \$ 287,50 \$ - \$ 548,29 \$ - \$ 1,167,66
Ik Installation Program ce Expwy / Monroe St Improvements mas Expwy / Homestead Rd Improvements Studies & Signal Needs Assessment ino Real / San Tomas Improvements ino Real / Lafayette Improvements Control Traffic Signal Upgrade Street / Chromite Dr Traffic Signal Sidewalks on San Tomas Expwy Pre-Emptors Signal Enhancements	Install missing sidewalk segments in residential and industrial areas Phase B: Provide additional WB travel lane Phase B: Add 2nd EBLT Needs assessment/upgrade of existing signal system Phase B: Add 2nd EBLT and 2nd WBLT on ECR Phase B: Add 2nd EBLT on ECR Upgrade signal system for surveillance and coordination Install traffic signal Install sidewalks on west side of expressway Design & install emergency vehicle pre-emptors Install new signals and video detection	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,089,579 300,000 548,470 700,000 2,843,588 1,250,000 2,370,649 400,000 183,000	90% 100% 90% 100% 59% 94% 88% 100% 67%	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	980,621 300,000 494,000 700,000 1,683,590 1,171,250 2,096,720	\$ \$ \$ \$ \$ \$ \$	30,208 12,500 494,000 151,701 1,683,590 3,590	\$ 950,41 \$ 287,50 \$ - \$ 548,29 \$ - \$ 1,167,66
ce Expwy / Monroe St Improvements mas Expwy / Homestead Rd Improvements Studies & Signal Needs Assessment ino Real / San Tomas Improvements ino Real / Lafayette Improvements Control Traffic Signal Upgrade Street / Chromite Dr Traffic Signal Sidewalks on San Tomas Expwy Pre-Emptors Signal Enhancements	areas Phase B: Provide additional WB travel lane Phase B: Add 2nd EBLT Needs assessment/upgrade of existing signal system Phase B: Add 2nd EBLT and 2nd WBLT on ECR Phase B: Add 2nd EBLT on ECR Upgrade signal system for surveillance and coordination Install traffic signal Install sidewalks on west side of expressway Design & install emergency vehicle pre-emptors Install new signals and video detection	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	300,000 548,470 700,000 2,843,588 1,250,000 2,370,649 400,000 183,000	100% 90% 100% 59% 94% 88% 100% 67%	\$ \$ \$ \$ \$ \$ \$ \$	300,000 494,000 700,000 1,683,590 1,171,250 2,096,720	\$ \$ \$ \$ \$ \$ \$	12,500 494,000 151,701 1,683,590 3,590	\$ 287,50 \$ - \$ 548,29 \$ - \$ 1,167,66
mas Expwy / Homestead Rd Improvements Studies & Signal Needs Assessment ino Real / San Tomas Improvements ino Real / Lafayette Improvements Control Traffic Signal Upgrade Street / Chromite Dr Traffic Signal Sidewalks on San Tomas Expwy Pre-Emptors Signal Enhancements	Phase B: Add 2nd EBLT Needs assessment/upgrade of existing signal system Phase B: Add 2nd EBLT and 2nd WBLT on ECR Phase B: Add 2nd EBLT on ECR Upgrade signal system for surveillance and coordination Install traffic signal Install sidewalks on west side of expressway Design & install emergency vehicle pre-emptors Install new signals and video detection	\$ \$ \$ \$ \$ \$ \$ \$ \$	548,470 700,000 2,843,588 1,250,000 2,370,649 400,000 183,000	90% 100% 59% 94% 88% 100% 67%	\$ \$ \$ \$ \$ \$	494,000 700,000 1,683,590 1,171,250 2,096,720	\$ \$ \$ \$	494,000 151,701 1,683,590 3,590	\$ - \$ 548,29 \$ - \$ 1,167,66
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ino Real / Lafayette Improvements Control Traffic Signal Upgrade Street / Chromite Dr Traffic Signal Sidewalks on San Tomas Expwy Pre-Emptors Signal Enhancements	Phase B: Add 2nd EBLT on ECR Upgrade signal system for surveillance and coordination Install traffic signal Install sidewalks on west side of expressway Design & install emergency vehicle pre-emptors Install new signals and video detection	\$ \$ \$ \$	1,250,000 2,370,649 400,000 183,000	94% 88% 100% 67%	\$ \$ \$	1,171,250 2,096,720	\$	3,590	\$ 1,167,66
Control Traffic Signal Upgrade Street / Chromite Dr Traffic Signal Sidewalks on San Tomas Expwy Pre-Emptors Signal Enhancements	Upgrade signal system for surveillance and coordination Install traffic signal Install sidewalks on west side of expressway Design & install emergency vehicle pre-emptors Install new signals and video detection	\$ \$ \$ \$	2,370,649 400,000 183,000	88% 100% 67%	\$ \$	2,096,720		,	
Street / Chromite Dr Traffic Signal Sidewalks on San Tomas Expwy Pre-Emptors Signal Enhancements	Install traffic signal Install sidewalks on west side of expressway Design & install emergency vehicle pre-emptors Install new signals and video detection	\$ \$ \$	400,000 183,000	100% 67%	\$, , -	\$	200 042	A 4 6 6 6 6 7
Sidewalks on San Tomas Expwy Pre-Emptors Signal Enhancements	Install sidewalks on west side of expressway Design & install emergency vehicle pre-emptors Install new signals and video detection	\$ \$	183,000	67%		400,000		399,842	\$ 1,696,87
Pre-Emptors Signal Enhancements	Design & install emergency vehicle pre-emptors Install new signals and video detection	\$			\$		\$	-	\$ 400,00
Signal Enhancements	Install new signals and video detection		1,445,259	100%		122,882	\$	122,882	\$-
5	5	¢			\$	1,445,259	\$	517,512	\$ 927,74
ian and Bicycle Facility Enhancements	Construct sidewalks and bicycle facilities	\$	1,400,000	100%	\$	1,400,000	\$	474,717	\$ 925,28
		\$	1,815,637	100%	\$	1,815,637	\$	1,037,431	\$ 778,20
rails Expansion Master Plan	Calabazas Cr, Saratoga Cr, & Hetch Hetchy ROW trails	\$	291,500	100%	\$	291,500	\$	291,500	\$-
Monitoring at Various Locations	Install video cameras for traffic monitoring	\$	624,500	100%	\$	624,500	\$	105,938	\$ 518,56
ible Pedestrian Signal Installation	Replace existing signals with new ADA-compliant signals	\$	700,000	100%	\$	700,000	\$	-	\$ 700,00
Signal Controller Replacement	Replace existing signal software, controllers & cabinets	\$	500,000	100%	\$	500,000	\$	-	\$ 500,00
ement of Signals in downtown area	New signal poles, cabinets, communications, timing plans	\$	1,515,000	50%	\$	757,500	\$	-	\$ 757,50
lvd / San Tomas Expwy Improvement	Provide additional WBRT lane	\$	260,000	100%	\$	260,000	\$	-	\$ 260,00
ead / Lawrence Expwy Improvement	Provide additional EB through lane on Homestead	\$	520,000	100%	\$	520,000	\$	-	\$ 520,00
St / Lawrence Expwy Improvement	Provide additional WBLT lane	\$	520,000	100%	\$	520,000	\$	-	\$ 520,00
ce Expwy Access Restrictions	Close median at Lochinvar. RT access only at 6 side streets	\$	300,000	100%	\$	300,000	\$	-	\$ 300,00
ian Crosswalk Sensors	Install pedestrian crosswalk radar sensors at signals	\$	450,000	100%	\$	450,000	\$	-	\$ 450,00
Ave / Scott Blvd Improvement	Add a second SB LT lane	\$	415,000	91%	\$	377,390	\$	-	\$ 377,39
Ave / Kifer Rd- Walsh Ave Improvement	Add a second EB LT lane	\$	45,000	95%	\$	42,971	\$	-	\$ 42,97
Ave / El Camino Real Improvement	Add a second EB LT lane	\$	1,550,000	99%	\$	1,526,882	\$	-	\$ 1,526,88
Cruz Blvd / Aldo Ave Improvement	Add an EB overlap phase	\$	140,000	70%	\$	97,641			\$ 97,64
nd Bike Lanes	Provide 40 miles of trails and bike lanes	-	,	100%					\$ 18.000.00
Demand Model Development	Develop and maintain forecasting model	\$	250,000	100%	\$	-,,	•		\$ 250,00
Signal Interconnect Upgrade		\$	1,900,000	100%		,		-	\$ 1,900,00
	Upgrade City's traffic signals to smarter traffic signals	\$	6,000,000	100%	· ·				\$ 6,000,00
iancements	Design & construct new signals at locations throughout City	\$	3,000,000	100%		-,,			\$ 3,000,00
nancements Signal Installation	тот/	AL \$	59,989,268		\$	52,289,075	\$	-,,	\$ 45,934,44
	Traffic Impact Fee Delense	47							\$ 8,711,42 \$ 27,222,04
	•								\$ 37,223,01
nc De Się	I Bike Lanes mand Model Development gnal Interconnect Upgrade ncements	I Bike Lanes Provide 40 miles of trails and bike lanes mand Model Development Develop and maintain forecasting model gnal Interconnect Upgrade Upgrade GAP & Tasman corridor to fiber ncements Upgrade City's traffic signals to smarter traffic signals gnal Installation Design & construct new signals at locations throughout City	I Bike Lanes Provide 40 miles of trails and bike lanes \$ I Bike Lanes Provide 40 miles of trails and bike lanes \$ I mand Model Development Develop and maintain forecasting model \$ gnal Interconnect Upgrade Upgrade GAP & Tasman corridor to fiber \$ ncements Upgrade City's traffic signals to smarter traffic signals \$ gnal Installation Design & construct new signals at locations throughout City \$ TOTAL \$	I Bike Lanes Provide 40 miles of trails and bike lanes \$ 18,000,000 Imand Model Development Develop and maintain forecasting model \$ 250,000 gnal Interconnect Upgrade Upgrade GAP & Tasman corridor to fiber \$ 1,900,000 ncements Upgrade City's traffic signals to smarter traffic signals \$ 6,000,000 gnal Installation Design & construct new signals at locations throughout City \$ 3,000,000 TOTAL \$ 59,989,268	I Bike LanesProvide 40 miles of trails and bike lanes\$ 18,000,000100%Imand Model DevelopmentDevelop and maintain forecasting model\$ 250,000100%gnal Interconnect UpgradeUpgrade GAP & Tasman corridor to fiber\$ 1,900,000100%IncementsUpgrade City's traffic signals to smarter traffic signals\$ 6,000,000100%gnal InstallationDesign & construct new signals at locations throughout City\$ 3,000,000100%	I Bike Lanes Provide 40 miles of trails and bike lanes \$ 18,000,000 100% \$ I Bike Lanes Provide 40 miles of trails and bike lanes \$ 18,000,000 100% \$ I Bike Lanes Develop and maintain forecasting model \$ 250,000 100% \$ I Bike Lanes Upgrade GAP & Tasman corridor to fiber \$ 1,900,000 100% \$ Incements Upgrade City's traffic signals to smarter traffic signals \$ 6,000,000 100% \$ gnal Installation Design & construct new signals at locations throughout City \$ 3,000,000 100% \$ Traffic Impact Fee Balance as of 6/30/2017	I Bike LanesProvide 40 miles of trails and bike lanes\$ 18,000,000100%\$ 18,000,000Imand Model DevelopmentDevelop and maintain forecasting model\$ 250,000100%\$ 250,000gnal Interconnect UpgradeUpgrade GAP & Tasman corridor to fiber\$ 1,900,000100%\$ 1,900,000incementsUpgrade City's traffic signals to smarter traffic signals\$ 6,000,000100%\$ 6,000,000gnal InstallationDesign & construct new signals at locations throughout City\$ 3,000,000100%\$ 3,000,000TOTAL \$ 59,989,268\$ 52,289,075	I Bike Lanes Provide 40 miles of trails and bike lanes \$ 18,000,000 \$ 19,000,000 \$ 18,000,000 \$ 19,000,000 \$ 19,000,000 \$ 19,000,000 \$ 19,000,000 \$ 0	I Bike Lanes Provide 40 miles of trails and bike lanes \$ 18,000,000 \$ 18,000,000 \$ - I Bike Lanes Develop and maintain forecasting model \$ 250,000 100% \$ 250,000 \$ - I gnal Interconnect Upgrade Upgrade GAP & Tasman corridor to fiber \$ 1,900,000 \$ 1,900,000 \$ - Incements Upgrade City's traffic signals to smarter traffic signals \$ 6,000,000 100% \$ 6,000,000 \$ - I Installation Design & construct new signals at locations throughout City \$ 3,000,000 \$ 3,000,000 \$ - TOTAL \$ 59,989,268 \$ 52,289,075 \$ 6,354,629



4. Options for Phase D Program

The City's Traffic Mitigation Program establishes transportation improvements required to meet the City's level of service policy. Without the Traffic Mitigation Program improvements, levels of service at several intersections would degrade from their current acceptable levels to substandard levels. The need for these improvements is a result of traffic added by new development. It is reasonable, then, to require new development in Santa Clara to provide most or all of the funding for these mitigation improvements.

The basis of Santa Clara's traffic impact fee is the number of net new PM peak hour vehicle trips generated by new development, because those additional trips result in the traffic impacts the fee is intended to mitigate. The increase in PM peak hour trips has been used as the basis of the fee in the past because the PM peak hour is typically more congested than the AM peak hour.

The fee is calculated by dividing the total cost of the projects in the Traffic Mitigation Program by the number of additional PM peak hour trips generated by new development, which results in a "per PM peak hour trip" fee amount. To facilitate implementation, this fee per trip has then been converted to an equivalent fee per square foot for office and industrial uses and per room for hotel/motel uses by applying the trip generation rates for those uses from the most recent version of the Institute of Transportation Engineers' *Trip Generation Manual*. This conversion process is explained further in Chapter 5.

Options for Phase D of the Traffic Mitigation Program

As described in Chapter 1, Santa Clara's current Traffic Impact Fee is charged in only a portion of the city and only on specified land uses. The area of the City that is subject to the fee is north of the Caltrain tracks, as was shown in Figure 1. The land uses that are subject to the fee and their rates are as follows:

- Office/R&D: \$1.00 per square foot
- Industrial: \$0.67 per square foot
- Warehousing/Utilities/Communications: \$0.20 per square foot
- Hotel/Motel: \$400.00 per room

Both residential and retail uses are currently exempt from the TIF. When the rates above were approved in 2010, the underlying nexus study indicated that higher fees could be charged based on the number of net new PM peak hour trips projected and the cost of the projects identified to mitigate the



impact of the additional traffic volumes. The City Council approved rates lower than the levels that could be justified by the nexus study and indicated that the shortfall in funding for the TMP projects would be made up by federal, state and local grants, as well as by direct contributions from developers as fair share contributions towards improvements necessary to mitigate any significant project impacts identified in an EIR.

This nexus study examines the following options for revising the Traffic Mitigation Program:

Option 1: Status Quo. Continue to charge a TIF only north of the Caltrain tracks and on the same land uses that are currently subject to the fee. No expansion of area or land uses subject to the TIF.

Option 2: Same area plus residential and retail. Continue to charge the TIF only north of the Caltrain tracks. Expand the land uses subject to the TIF to include residential and retail development.

Option 3: Citywide and existing land uses only. Expand the area subject to the TIF to the entire city, but continue to exempt both residential and retail uses from the TIF.

Option 4: Citywide plus residential. Expand the area subject to the TIF to the entire city, and expand the land uses subject to the TIF to include residential development.

Option 5: Citywide plus residential and retail. Expand the area subject to the TIF to the entire city, and expand the land uses subject to the TIF to include residential and retail development.

In order to determine the amount of money that could be collected in each of these options, it is necessary to estimate the number of net new PM peak hour trips that would be generated under each of the options. The travel demand forecasting model from the City Place EIR was used to estimate the additional PM peak hour trips that would be generated north of the Caltrain tracks and south of the Caltrain tracks by the year 2040. The model's Travel Analysis Zones (TAZs) north and south of the Caltrain tracks were used as the basis for the geographic areas identified in the TIF options.

As shown in Table 3, the model projects an additional 31,520 PM peak hour trips in the year 2040, based on the difference between the Existing Conditions (2015) scenario and the Cumulative Plus Project (i.e., Cumulative Plus City Place) scenario. Of these net new trips, 24,851 would be generated by new development north of the Caltrain tracks and 6,669 would be generated by new development south of the Caltrain tracks.

The forecasting model provides estimates of how many new residential units and how many new jobs are projected by the year 2040, and it also provides an estimate of how many of the total new jobs would be retail jobs. However, the forecasting model's output provides only the total number of additional trips that would be generated by all new development in a given TAZ, but it does not specify how many trips would be generated by different land uses. Since the five options under consideration require a projection of the trips that would be generated by residential growth, by retail growth, and by non-retail job growth, Hexagon developed estimates of the new trips generated by those land uses by using average PM peak hour trip rates from the recently published Institute of Transportation Engineers' *Trip Generation Manual*, *10th Edition* (2017). By considering the number of new residential units, new retail jobs, and all other jobs projected by the model in combination with the ITE trip generation rates for those three uses, Hexagon developed projections of the number of trips that would be generated by the model in combination with the ITE trip generated by each of those uses.

Hexagon used the ITE land use category that best represents the three types of development identified in the five TIF options: new residential development, retail development, and non-retail development.



For example, for residential land uses, the analysis uses the trip rate for mid-rise multi-family housing (ITE category 221), which covers residential developments with between three and ten floors. Most recent housing developments in Santa Clara have been multi-family projects with more than two stories. Thus, even though there will likely also be some new single-family developments or low-rise multi-family developments in the future, it was determined that land use category 221 likely best represents the majority of new residential development included in the travel demand forecasting model projections. An estimate was developed of the number of trips that would be generated by new retail jobs in Santa Clara using the general Shopping Center trip rate (ITE category 820). A trip estimate was also developed for the new non-retail jobs using the General Offices trip rate (ITE category 710) as a proxy for this group of land uses. The resulting trip projections were then factored to correspond to the model's trip projections for the two areas of the city, north and south of the Caltrain tracks.

Table 3

Projected Increase in PM Peak-Hour Trips

	Net New PM Peak Hour Trips						
	North of	South of					
Land Use	Caltrain Tracks	Caltrain Tracks	Citywide				
Employment-based uses (except retail)	12,639	3,392	16,031				
Retail	6,689	1,795	8,483				
Residential	5,523	1,482	7,006				
Total of all land uses	24,851	6,669	31,520				

Trips for the land use categories are based on average PM peak hour trip rates in Institute of Transportation Engineers'

Trip Generation Manual, 10th Edition (2017).

For employment-based uses: General office (710), PM pk hr trips per employee, General urban/suburban setting.

For retail: General shopping center (820), PM pk hr trips per GLA, General urban/suburban setting.

For residential: Mid-rise multifamily housing (221), PM pk hr trips per dwelling unit, General urban/suburban setting.

Based on Table 3, the following summarizes the number of PM peak hour trips associated with each of the five impact fee options under consideration:

Option 1: Status Quo. 12,639 PM peak hour trips

Option 2: Only north of Caltrain tracks, plus residential and retail. 24,851 PM peak hour trips

Option 3: Citywide and existing land uses only. 16,031 PM peak hour trips

Option 4: Citywide plus residential. 23,037 PM peak hour trips

Option 5: Citywide plus residential and retail. 31,520 PM peak hour trips

Calculation of the Impact Fee Amounts for the Five Options

The proposed amount of the Phase D TMP impact fee has been calculated by dividing the cost of the improvements to be funded by the TMP TIF by the number of additional PM peak hour vehicle trips included in Option 5. Option 5 establishes a citywide nexus between the trips associated with new development and the cost of necessary improvements. The other options would collect less money because they would exempt parts of the City or exempt certain land uses. The amount of future TMP



impact fee funding needed to fund the Phase D TMP project list, as was shown in Table 2, is \$37,223,018. The impact fee per PM peak hour trip is calculated by dividing \$37,223,018 by the number of PM peak hour trips associated with Option 5.

Table 4 shows the amount the City would collect in impact fees under each Option.

Table 4

Impact Fees per PM Peak Hour Trip

	Net New PM Peak Hour	Impact Fee per	Fees	City	
Impact Fee Option	Trips	PM Peak Hour Trip ¹	Collected	Share	Total
1 Status Quo: Same area, same land uses	12,639	\$1,181	\$14,926,659	\$29,996,552	\$44,923,211
2 Same area, add residential and retail	24,851	\$1,181	\$29,349,031	\$15,574,180	\$44,923,211
3 Expand area, same land uses	16,031	\$1,181	\$18,932,611	\$25,990,600	\$44,923,211
4 Expand area, add residential	23,037	\$1,181	\$27,206,697	\$17,716,514	\$44,923,211
5 Expand area, add residential and retail	31,520	\$1,181	\$37,223,018	\$7,700,193	\$44,923,211
otes					
L) The impact fee per PM peak hour trip is calculated n the Phase D TMP Project list (\$37,223,018) by the n	, 0	1, 2	ects		

5. Proposed Impact Fee Program

For simplicity of application, the City has chosen in the past to convert the amount of the per PM peak hour trip fee to a fee per square foot, per hotel room, or per dwelling unit, based on the trip generation rates in the ITE *Trip Generation Manual*. A new edition of the ITE *Trip Generation Manual* was published in 2017 with revised rates for many land uses, based on recent traffic studies, and these rates have been applied to the "per trip" amounts associated with each of the five fee options.

Therefore, the changes in fees, when compared to the existing fees, are due to multiple factors: the changes in ITE trip generation rates, the amount to be funded through the impact fee (from Table 2), and the number of PM peak hour trips associated with each option. Table 5 presents the impact fees associated with each of the five options under consideration.

The methodology for converting the "per PM peak hour trip" amount to the amount that would be charged for a given land use is the same for all land uses. The TIF per PM peak hour trip is multiplied by the appropriate ITE PM peak hour trip generation rate. For uses where the ITE rate is given per 1,000 square feet, the result is divided by 1,000 to obtain the fee per square foot.

Sometimes unique uses may be proposed that do not fit within the land use categories for which TMP impact fees have been established. In these cases, the trip generation rate for the use and the "per trip" fee amount can be used to calculate an appropriate fee for the use. Trip generation rates may be obtained from the most recent ITE *Trip Generation Manual* or other documented source of such rates. For unique uses for which no published rates are available, trip generation rates may be calculated using direct measurement of similar uses that are in operation elsewhere or through a rational analysis based on number of employees, residents, visitors, or other factors that affect trip generation.

Retail Use Fees

Two of the options include a fee on retail uses: Option 2 would charge a TIF on retail uses north of the Caltrain tracks and Option 5 would charge a TIF on retail uses citywide. As shown in Table 5, the calculated fee per square foot for retail is much higher than the calculated fee for other commercial uses. This is because the ITE PM peak hour trip generation rate for retail (3.81) is more than three times higher than the next-highest rate, which is 1.15 for office uses. The resulting rate for retail uses of \$4.50 per s.f. is sufficiently high that it may function as a disincentive to future retail development in the City. Note that the rate does not account for pass-by trips or other reductions that are allowed by VTA when a traffic study is conducted.



If the City is interested in including at least some retail uses in its impact fee program, it may wish to consider setting the rate at a lower level than the calculated amount shown in Table 5 or exempting individual stores under a certain size threshold, such as 50,000 s.f. There are several reasons the City may wish to exempt smaller, neighborhood-serving retail projects from the TIF. One reason is that many retail trips are made by drivers passing by the retail site on their way to or from another location (referred to as "pass-by trips") and are not separate vehicle trips on the roadway network. Thus, many retail trips have a lower traffic impact since they do not represent additional vehicle trips made solely for the purpose of shopping. The latest edition of the ITE Trip Generation Handbook (3rd Edition, 2017) states that the average PM peak hour pass-by rate for retail uses (ITE category 820) is 34%. Thus, approximately one-third of the trips generated by retail uses are not "new" trips on the roadway network, but are trips that would have been made anyway.

Another rationale for exempting relatively small retail projects from the TIF is that even though retail projects have high trip generation rates, the traffic impacts of neighborhood-serving retail can be fairly low because of short trip lengths. Depending on where a retail project is located, it may serve to reduce vehicle miles traveled, if its location allows some people to drive shorter distances than they otherwise would to a shopping destination. Shorter trips are also more likely to be made by walking or bicycling. Retail projects also generate sales tax revenue for a municipality. Thus, if the City is interested in including retail in the TIF program, it may wish to consider an exemption for individual retail establishments below a certain size (e.g., 50,000 s.f.) or reducing the TIF for neighborhood-serving retail projects.

Table 5

Impact Fee Amounts for Common Land Uses Under Five TIF Options

ITE ITE TripTIF Options										
Land Use	Land Use Category	Generation Rate ¹	Unit of Measure	Current Impact Fee	1	2	3	4	5	
Impact Fee per PM Peak Hour Trip					\$1,181	\$1,181	\$1,181	\$1,181	\$1,181	
Office/R&D	710	1.15	s.f.	\$1.00	\$1.36	\$1.36	\$1.36	\$1.36	\$1.36	
Industrial	110	0.63	s.f.	\$0.67	\$0.74	\$0.74	\$0.74	\$0.74	\$0.74	
Warehousing,Utilities,Communications	150	0.19	s.f.	\$0.20	\$0.22	\$0.22	\$0.22	\$0.22	\$0.22	
Hotel/Motel	310	0.60	Room	\$400.00	\$708.60	\$708.60	\$708.60	\$708.60	\$708.60	
Multi-Family Residential ²	221	0.44	d.u.	n.a.	n.a.	\$519.64	n.a.	\$519.64	\$519.64	
Single-Family Residential	210	0.99	d.u.	n.a.	n.a.	\$1,169.19	n.a.	\$1,169.19	\$1,169.19	
Retail ³	820	3.81	s.f.	n.a.	n.a.	\$4.50	n.a.	n.a.	\$4.50	
City Share				\$33,383,000	\$29,995,000	\$15,578,000	\$25,992,000	\$17,721,000	\$7,700,000	
Notes:										
(1) All trip generation rates are average rate	ates for the F	PM peak hour f	from Institute	of Transportati	on Engineers, T	rip Generation Ma	nual, 10th Edition	(2017).		
Rates for offices (710), industrial (110)		0 ().	retail (820) ar	e per thousand	square feet. Fe	ee levels for these	uses are provide	d per square foot		
for ease of comparison with the City's	0									
(2) The City may exempt affordable hous	• • •			and BMR units	in excess of the	City's requirement	nt) from this fee.			
(3) The City may exempt retail projects u	nder 50,000	s.f. from this f	ee.							

Indexing the TIF

Many cities in the Bay Area adjust their transportation-related impact fees annually in order to reflect inflation. The Construction Cost Index, published by Engineering News Record, is commonly used to adjust the amount of traffic impact fees at the start of each fiscal year. Since all of the improvements to be funded with the TIF are capital projects for which cost estimates will increase with time, indexing the TIF will allow the fees collected to also increase over time in order to keep up with construction costs. Without annual adjustments to keep pace with inflation, the impact fees collected over the years will not be sufficient to implement the Phase D projects without preparing a new nexus study to raise the rates.

It is therefore strongly recommended that fee levels be automatically adjusted annually, subject to City Council approval prior to the start of each fiscal year, in line with the Construction Cost Index. Many other cities increase their TIF rates annually as part of adopting a revised fee schedule for other municipal purposes.

Exemption for Affordable Housing

If the city is interested in including residential uses in the impact fee program (Options 2, 4, and 5), it may wish to consider an exemption for any affordable housing units built as part of a development as defined by City Code Section 17.40. The purpose of this exemption would be to encourage construction of affordable housing units in Santa Clara.

Applying the TIF to Vacant Parcels and on Changing Land Uses

If a site has been vacant for at least two years, then it is recommended that any new development project on that site be subject to the appropriate TIF, and that no credit for existing uses be given when calculating the TMP impact fee. The rationale for this is that the project would generate new trips compared to recent and existing conditions, regardless of the site's historical use. The rationale for two years as the minimum period of vacancy is that it is consistent with VTA's TIA Guidelines requiring traffic studies to use traffic counts that are no more than two years old.

Hexagon also recommends that the TIF be applied when the land use on a given parcel changes, due to the wide variation in trip generation rates for different uses. The TIF for changing land uses would be triggered when a permit for construction, a zoning change, or a conditional use permit is required.

Meeting AB 1600 Requirements

The City should continue to follow the requirements of the Mitigation Fee Act (AB 1600) with regard to reporting annually on expenditures from the TIF fund (Fund 525 in the City Capital Improvement Budget) and making findings regarding a continuing need for any funds that are unexpended and uncommitted five or more years after deposit of such fees. The City has been including such findings in its annual "AB 1600 Report on Development Impact Fees" after each fiscal year, and should continue to do so.