

# Regional Transportation Mitigation Fee 2023 Nexus Study Update Final Report

Nevada County Transportation Commission

12 July 2023

#### GHD 380 2200 21st Street, Sacramento, California 95818, United States T 916-782-8688 | ghd.com

| Printed date     | 7/12/2023 6:24:00 PM  |
|------------------|---|
| Last saved date  | July 12, 2023   |
| File name        | https://ghdnet-<br>my.sharepoint.com/personal/rosanna_southern_ghd_com/Documents/Desktop/11230706-<br>RPT001-FinalRTMF.docx |
| Author           | Rosanna Southern, EIT<br>Don Hubbard, TE, AICP<br>Todd Tregenza, AICP   |
| Project manager  | Todd Tregenza, AICP   |
| Client name      | Nevada County Transportation Commission   |
| Project name     | WESTERN NEVADA CO RTMF  |
| Document title   | Regional Transportation Mitigation Fee 2023 Nexus Study Update   Final Report   |
| Revision version | Rev 8   |
| Project number   | 11230706  |

# **Executive summary**

The Mitigation Fee Act requires that mitigation fees be periodically updated. This is to ensure that the assumptions regarding future growth, the need for projects, their costs, etc. continue to provide a reasonable nexus between the impacts of new development and the fees charged. This report describes the methodology used in updating the nexus, the resulting recommended fee structure, and the revised forecast for Regional Transportation Mitigation Fee (RTMF) program revenues based on the new growth assumptions and recommended fees.

Since the previous RTMF nexus study was prepared in 2016, the effects of the global COVID-19 pandemic caused an economic slump which not only effected most industries but also affected travel patterns nationwide due to stay-athome orders, school closures, and a prolonged increase in employees being able to work from home. New forecasts for future development incorporate a slight increase in the existing base of households and employment, and a change in anticipated growth allocation, with lower future growth rates. These factors have resulted in lower reduced forecasts for future traffic congestion and a reduced need for roadway operational improvements. However, it also means that the cost of projects will be spread over fewer new units. Additionally, trip generation rates have been updated to reflect the most recent data presented in the Institute of Transportation Engineer's Trip Generation Manual, which results in some differences in the percentage change in the proposed fees.

Assembly Bill (AB) 602, signed into law January 1, 2022, imposed new requirements for fees on residential development (effective July 1, 2022). The law requires that the fee reflect a reasonable relationship to the size of the dwelling unit. This is explained further is Section 3.6.

Table ES.1.1 and Table ES.1.2 present the recommended revised fee structure for residential and non-residential developments, respectively, which take into account the factors described above.

| Typical Use  | Unit          | Current Fee per Unit | Proposed Fee per Unit | % Change in Fee |  |
|--|---------------|----------------------|-----------------------|-----------------|--|
| Single Family  |               |                      |                       |                 |  |
| Small (<1,500 sq.ft.)  | Dwelling Unit | \$4,621              | \$4,030               | -13%            |  |
| Medium (1,500-2,500 sq.ft.)  | Dwelling Unit | \$4,621              | \$4,868               | 5%              |  |
| Large (<2,500 sq.ft.)  | Dwelling Unit | \$4,621              | \$5,396               | 17%             |  |
| Multi-Family   |               |                      |                       |                 |  |
| Small (<1,500 sq.ft.)  | Dwelling Unit | \$3,199              | \$1,128               | -65%            |  |
| Medium (1,500-2,500 sq.ft.)  | Dwelling Unit | \$3,199              | \$1,363               | -57%            |  |
| Large (<2,500 sq.ft.)  | Dwelling Unit | \$3,199              | \$1,511               | -53%            |  |
| Mobile Home  |               |                      |                       |                 |  |
| Small (<1,500 sq.ft.)  | Dwelling Unit | \$2,422              | \$2,775               | 15%             |  |
| Medium (1,500-2,500 sq.ft.)  | Dwelling Unit | \$2,422              | \$3,352               | 38%             |  |
| Large (<2,500 sq.ft.)  | Dwelling Unit | \$2,422              | \$3,716               | 53%             |  |
| Senior Housing   |               |                      |                       |                 |  |
| Small (<1,500 sq.ft.)  | Dwelling Unit | \$1,728              | \$780                 | -55%            |  |
| Medium (1,500-2,500 sq.ft.)  | Dwelling Unit | \$1,728              | \$942                 | -45%            |  |
| Large (<2,500 sq.ft.)  | Dwelling Unit | \$1,728              | \$1,045               | -40%            |  |
| Accessory Dwelling Unit (ADU) - Calculated based on ratio of size to primary unit. See below for more information. |               |                      |                       |                 |  |

Table ES.1.1 Current and Recommended RTMF Fees – Residential Land Uses

i

| Typical Use             | Unit             | Current Fee | Proposed Fee | %<br>Change |
|-------------------------|------------------|-------------|--------------|-------------|
| Office                  | Thousand Sq. ft. | \$1,033     | \$755        | -27%        |
| Industrial              | Thousand Sq. ft. | \$457       | \$281        | -38%        |
| Warehouse               | Thousand Sq. ft. | \$305       | \$211        | -31%        |
| Retail/Service - Low    | Thousand Sq. ft. | \$2,047     | \$1,280      | -37%        |
| Retail/Service - Medium | Thousand Sq. ft. | \$4,373     | \$2,990      | -32%        |
| Retail/Service - High   | Thousand Sq. ft. | \$7,754     | \$5,443      | -30%        |
| Lodging                 | Room             | \$553       | \$249        | -55%        |
| Public & Quasi-Public   | Thousand Sq. ft. | Exempt      | Exempt       | N/A         |
| School K-8th Grade      | Student          | Exempt      | Exempt       | N/A         |
| School 9-12th Grade     | Student          | Exempt      | Exempt       | N/A         |
| Public College          | Student          | Exempt      | Exempt       | N/A         |

Table ES.1.2 Current and Recommended RTMF Fees – Non-Residential Land Uses

Senate Bill (SB) 13, passed in 2019, establishes a new system for assessing fees on accessory dwelling units (ADUs). The law states that ADUs less than 750 square feet are exempt from impact fees, and that ADUs larger than 750 square feet are charged the impact fee based on the ratio of its floor area in relation to the primary unit, multiplied by the fee that the primary unit would pay, if it was being built today (i.e., ADU sq.ft. / primary unit sq.ft. x RTMF for primary unit). This is explained further in Section 3.6.1.

The recommendation includes a slight increase in the residential fees (comparing single-family medium-sized unit as that is equal to one dwelling unit equivalent), and a larger decrease in non-residential fees. This is largely due to the removal of expensive projects to widen several sections of SR 49, which greatly lowered the costs that new development will be expected to bear. Although those projects are justifiable on technical grounds, the fee program would provide only a relatively small portion of the funds needed to complete the project, and there is no guarantee of obtaining State or Federal competitive grant funds to cover the remaining costs. Since State law precludes NCTC from collecting funds for projects that do not have a reasonable expectation of being implemented, these projects were removed from the RTMF project list.

The other factor in the recommended fee reduction was a reduction in the percentage of project costs attributable to new development. This applied especially to non-residential development. Analysis using NCTC's traffic model showed that, given the county's current jobs/housing imbalance, development of places for Nevada County residents to work and shop locally will reduce the need for some long trips out of the county. As a result, this type of localized development will have fewer traffic impacts than was previously forecast, which also leads to a lower impact fee.

The recommended fee schedule will continue to have residential fees in the lower range of foothill counties while nonresidential fees will be lower than peer counties. If the forecasts for future residential and non-residential development prove correct, then total revenues from the RTMF over the next twenty years will be approximately \$17.6M, which will provide approximately 28% of the total cost of the projects on the updated Capital Improvements Program (CIP). The remaining 72% of project costs are attributable to existing deficiencies and by law must be covered by some source other than impact fees. The other sources of project funding are identified in Section 3.10 of this report.

ii

# Contents

| 1. | Introc | luction   | 1  |
|----|--------|---|----|
|    | 1.1    | Background  | 1  |
|    | 1.2    | Program Experience to Date                              | 2  |
| 2. | Updat  | tes to Key Inputs                                       | 5  |
|    | 2.1    | Trip Generation Rates                                   | 5  |
|    | 2.2    | Growth Forecasts  | 7  |
|    | 2.3    | Funding from Other Sources                              | 10 |
|    | 2.4    | Updated Project Costs                                   | 11 |
| 3. | Updat  | tes to the Fee Calculation                              | 13 |
|    | 3.1    | Computation Methodology                                 | 13 |
|    | 3.2    | Existing & Future Deficiencies                          | 15 |
|    | 3.3    | Portion of Project Need Attributable to New Development | 17 |
|    | 3.4    | Determination of Amount Collectible through the RTMF    | 19 |
|    | 3.5    | Residential & Non-Residential Shares of Traffic Impacts | 21 |
|    | 3.6    | Consideration of Residential Floor Area                 | 22 |
|    |        | 3.6.1 Accessory Dwelling Units (ADUs)                   | 24 |
|    | 3.7    | Determination of Total Trips and Fee per Trip           | 24 |
|    | 3.8    | Recommended Fee by Land Use Category                    | 26 |
|    | 3.9    | Revenues Raised by the RTMF Program                     | 29 |
|    | 3.10   | Results in Terms of Project Funding                     | 30 |
| 4. | Mitiga | ation Fee Act Findings                                  | 32 |
|    | 4.1    | Purpose of the Fee                                      | 32 |
|    | 4.2    | Use of Fee Revenues                                     | 32 |
|    | 4.3    | Use/Type of Development Relationship                    | 32 |
|    | 4.4    | Need/Type of Development Relationship                   | 33 |
|    | 4.5    | Proportionality Relationship                            | 33 |

#### **Table index**

| Table ES.1.1 | Current and Recommended RTMF Fees – Residential Land Uses     | i  |
|--------------|---|----|
| Table ES.1.2 | Current and Recommended RTMF Fees – Non-Residential Land Uses | ii |
| Table 1.1    | RTMF Revenues, 2000 – 2021                                    | 2  |
| Table 1.2    | Projects that have Received RTMF Funds (2011-2022)            | 4  |
| Table 2.1    | Trip-Generation Rates by Land Use                             | 5  |
| Table 2.2    | Land Use Growth Forecast                                      | 10 |
| Table 2.3    | Funding Available from Other Sources                          | 11 |

| Table 3.1  | Existing & Future LOS at Proposed Project Locations                                   | 16 |
|------------|---|----|
| Table 3.2  | Percent of Project Need Attributable to New Development (Project LOS)                 | 18 |
| Table 3.3  | Amount Potentially Collectable Through RTMF between 2023 to 2040 (Project Costs)      | 20 |
| Table 3.4  | Percentage of VMT Growth Attributable to Residential & Non-Residential<br>Development | 21 |
| Table 3.5  | Computation of Average Trip Generation by Dwelling Size Category                      | 23 |
| Table 3.6  | Computation of Dwelling DUEs by Size and Dwelling Type                                | 24 |
| Table 3.7  | Total Trips by Land Use - Residential and Non-Residential Trips                       | 24 |
| Table 3.8  | Fee per Trip and DUE  | 26 |
| Table 3.9  | Revised Fee Levels – Residential Uses   | 27 |
| Table 3.10 | Revised Fee Levels – Non-Residential Uses   | 28 |
| Table 3.11 | Forecast of RTMF Revenues   | 30 |
| Table 3.12 | Proposed Allocation of RTMF Revenues to Projects                                      | 31 |

### Figure index

| Figure 1.1 | RTMF Revenues by Year & Jurisdiction                       | 3  |
|------------|--|----|
| Figure 2.1 | Housing Starts in California by Year                       | 7  |
| Figure 2.2 | US Employment by Year                                      | 8  |
| Figure 2.3 | Foothill Counties Population by Year                       | 9  |
| Figure 2.4 | Nevada County Population by Year - Actual & Forecasted     | 9  |
| Figure 2.5 | Caltrans' Construction Price Index, 1990-2022              | 12 |
| Figure 3.1 | Fee Computation Methodology Flowchart                      | 14 |
| Figure 3.2 | Percent Attributable Cases                                 | 17 |
| Figure 3.3 | Average Trip Length by Trip Purpose                        | 21 |
| Figure 3.4 | Residential Impact Fee Comparison - Foothills Counties     | 28 |
| Figure 3.5 | Non-Residential Impact Fee Comparison - Foothills Counties | 28 |

#### **Appendices**

Existing Traffic Volumes Forecasted Traffic Volumes Level of Service Worksheets

# 1. Introduction

The western Nevada County Regional Transportation Mitigation Free (RTMF) program was established in 2001 through a partnership of Nevada County, Nevada City, Grass Valley, and the Nevada County Transportation Commission (NCTC). The program provides a mechanism for new development to pay its fair share towards the cost of construction of the regional system of roads, streets, and highways needed to accommodate growth in western Nevada County.

#### 1.1 Background

The RTMF program operates pursuant to the Mitigation Fee Act, also known as California Assembly Bill 1600 (AB 1600) or California Government Code Sections 66000 et seq., which governs impact fees in California. The Mitigation Fee Act requires that all local agencies in California, including cities, counties, and special districts follow some basic principles when instituting impact fees as a condition of new development. Agencies must:

- 1. Identify the purpose of the fee. (Government Code Section 66001(a)(1))
- 2. Identify the use to which the fee is to be put. (Government Code Section 66001(a)(2))
- 3. Determine that there is a reasonable relationship between the fee's use and the type of development on which the fee is to be imposed. (Government Code Section 66001(a)(3))
- 4. 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 to be imposed. (Government Code Section 66001(a)(4))
- Discuss 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 to be imposed. (Government Code Section 66001(b))

These principles closely emulate two landmark U.S. Supreme Court rulings that each provide guidance on the application of impact fees. The first case, *Nollan v. California Coastal Commission* (1987) 107 S.Ct. 3141, established that local governments are not prohibited from imposing impact fees or dedications as conditions of project approval provided the local government establishes the existence of a "nexus" or link between the exaction and the state interest being advanced by that exaction. The *Nollan* ruling clarifies that once the adverse impacts of development have been quantified, the local government must then document the relationship between the project and the need for the conditions that mitigate those impacts. The ruling further clarifies that an exaction may be imposed on a development even if the development project itself will not benefit, provided the exaction is necessitated by the project's impacts on identifiable public resources.

The second case, *Dolan v. City of Tigard* (1994) 114 S.Ct. 2309, held that in addition to the *Nollan* standard of an essential nexus, there must be a "rough proportionality" between proposed exactions and the project impacts that the exactions are intended to allay. As part of the Dolan ruling, the U.S. Supreme Court advised that "*a term such as 'rough proportionality' best encapsulates what we hold to be the requirements of the Fifth Amendment. No precise mathematical calculation is required, but the city (or other local government) must make some sort of individualized determination that the required dedication is related both in nature and extent to the impact of the proposed development.*"

The combined effect of both rulings is the requirement that public exactions must be carefully documented and supported. This requirement is reiterated by the provisions of the Mitigation Fee Act and subsequent rulings in the California Supreme Court (*Ehrlich v. City of Culver City* (1996) 12 C4th 854) and the California Court of Appeals (*Loyola Marymount University v. Los Angeles Unified School District 45* (1996) Cal.App.4th 1256).

This Nexus Study report is intended to satisfy the requirements of the State of California Mitigation Fee Act. Specifically, this Nexus Study report will outline the purpose and use of the RTMF, the relationship between new development and impacts on the transportation system, the estimated cost to complete necessary improvements to the regional street system within western Nevada County, and the 'rough proportionality' or 'fair share' fee for differing development types.

In 2021, AB-602 was signed into law, which amended the Mitigation Fee Act to include new requirements regarding the contents (§66016.5(a)(4)) and timing (§66016.5(a)(8)) of nexus studies adopted after July 2022, and how fees for residential development are to be computed (§66016.5(a)(5)). Chapters 2 and 3 of this report fulfill the new requirement to describe changes in input assumptions that led to the changes in fees. Section 3.6 fulfills the new requirements regarding how fees for residential development is to be computed.

### 1.2 Program Experience to Date

From its inception in fiscal year 2000/2001 until the end of the second quarter of fiscal year 2022/23 a total of \$8.4M was collected in RTMF fees. Of this, 67% came from developments in unincorporated Nevada County, 31% from developments in Grass Valley, and 2% from developments in Nevada City (see Table 1.1 and Figure 1.1).

| Fiscal Year | Nevada County | City of Grass Valley | City of Nevada City | Total     |
|-------------|---------------|----------------------|---------------------|-----------|
| FY 2000/01  | \$0           | \$1,897              | \$0                 | \$1,897   |
| FY 2001/02  | \$75,183      | \$64,383             | \$0                 | \$139,565 |
| FY 2002/03  | \$108,576     | \$120,764            | \$8,664             | \$238,004 |
| FY 2003/04  | \$94,530      | \$156,887            | \$22,468            | \$273,885 |
| FY 2004/05  | \$72,575      | \$131,114            | \$28,028            | \$231,717 |
| FY 2005/06  | \$138,480     | \$234,399            | \$7,987             | \$380,866 |
| FY 2006/07  | \$63,253      | \$112,896            | \$1,890             | \$178,039 |
| FY 2007/08  | \$44,445      | \$156,834            | \$6,308             | \$207,587 |
| FY 2008/09  | \$111,937     | \$238,031            | \$2,499             | \$352,466 |
| FY 2009/10  | \$176,458     | \$84,370             | \$0                 | \$260,828 |
| FY 2010/11  | \$222,750     | \$8,459              | \$3,928             | \$235,138 |
| FY 2011/12  | \$170,155     | \$15,178             | \$0                 | \$185,333 |
| FY 2012/13  | \$168,255     | \$48,771             | \$4,201             | \$221,228 |
| FY 2013/14  | \$474,393     | \$284,987            | \$7,482             | \$766,863 |
| FY 2014/15  | \$355,081     | \$165,255            | \$23,842            | \$544,178 |
| FY 2015/16  | \$445,599     | \$24,798             | \$-                 | \$470,397 |
| FY 2016/17  | \$437,147     | \$13,622             | \$-                 | \$450,770 |

Table 1.1 RTMF Revenues, 2000 – 2021

| Fiscal Year      | Nevada County | City of Grass Valley | City of Nevada City | Total       |
|------------------|---------------|----------------------|---------------------|-------------|
| FY 2017/18       | \$369,707     | \$182,227            | \$2,563             | \$554,497   |
| FY 2018/19       | \$384,019     | \$150,821            | \$11,378            | \$546,218   |
| FY 2019/20       | \$621,779     | \$68,476             | \$21,961            | \$712,217   |
| FY 2020/21       | \$494,265     | \$253,690            | \$26,094            | \$774,049   |
| FY 2021/22       | \$420,561     | \$56,527             | \$26,862            | \$503,950   |
| FY 22/23 Q1, Q2  | \$355,081     | \$165,255            | \$23,842            | \$544,178   |
| Total            | \$5,623,024   | \$2,574,387          | \$206,154           | \$8,403,565 |
| Percentage Split | 67%           | 31%                  | 2%                  | 100%        |

Figure 1.1 RTMF Revenues by Year & Jurisdiction



Since the previous nexus study (in 2016), revenues have averaged \$569,000 per year, which is a significant increase from the period prior to the 2014 study, when the average was approximately \$337,000 per year. Despite the higher revenue collection, this was only 34% of the amount anticipated in the previous nexus study (\$1.7M/year). This was due to the suppressive effect of the Great Recession on real estate development and the 2009 housing market crash. On the other hand, NCTC had great success in securing other funds for projects on the Capital Improvement Program (CIP) including a \$19M grant for the Dorsey Drive Interchange which more than made up for the less-than-expected RTMF revenues.

The RTMF has used the revenues it has collected to fund a variety of improvement projects. These are listed in Table 1.2 below. Table 1.2 shows that the RTMF program is important not just for the funding it provides but also because the RTMF dollars are used as local matching funds to leverage funding from other sources.

#### Table 1.2Projects that have Received RTMF Funds (2011-2022)

| Project                                  | RTMF<br>Funding | Funding from Other<br>Sources | Total Funding |
|--|-----------------|-------------------------------|---------------|
| East Main/Idaho-Maryland Roundabout      | \$1,823,000     | \$777,000                     | \$2,600,000   |
| Dorsey Drive Interchange                 | \$214,020       | \$19,333,980                  | \$19,548,000  |
| Brunswick/Loma Rica                      | \$488,790       | \$536,865                     | \$1,025,655   |
| E Main/Bennett St                        | \$1,500,000     | \$0                           | \$1,500,000   |
| NCTC Admin Annual Administration Charges | \$37,158        | \$0                           | \$37,158      |
| RTMF Update Charges                      | \$221,244       | \$0                           | \$221,244     |
| Total Paid                               | \$4,284,212     | \$20,647,845                  | \$24,932,057  |
|  | 17%             | 83%                           | 100%          |

# 2. Updates to Key Inputs

#### 2.1 Trip Generation Rates

ITE's Trip Generation Manual has been updated with new survey material since the edition that was used in the previous nexus study. The trip generation rates have accordingly been updated to those of the latest (11th) edition.

Table 2.1 shows a detailed correspondence list between general land use categories, the ITE land use codes, and the derivation of the trip generation rate used for broad categories from the individual rates of the sub-categories.



| Land Use Category                   | Unit          | ITE Code | Weekday Trips<br>per Unit |
|-------------------------------------|---------------|----------|---------------------------|
| RESIDENTIAL                         |               |          |                           |
| Single Family Detached House        | Dwelling Unit | 210      | 9.43                      |
| Multi-Family                        |               |          |                           |
| Apartment                           | Dwelling Unit | 220      | 6.74                      |
| Low Rise Apartment                  | Dwelling Unit | 221      | 4.54                      |
| Residential Condominium/Townhouse   | Dwelling Unit | 230      | 3.44                      |
| Median for Multi-Family             |               |          | 4.54                      |
|                                     |               |          |                           |
| Mobile Home in Park                 | Dwelling Unit | 240      | 7.12                      |
| Senior Residential                  |               |          |                           |
| Senior Adult Housing - Detached     | Dwelling Unit | 251      | 4.31                      |
| Senior Adult Housing - Attached     | Dwelling Unit | 252      | 3.24                      |
| Median for Senior Residential       |               |          | 3.78                      |
| NON-RESIDENTIAL                     |               |          |                           |
| Office                              |               |          |                           |
| General Office                      | KSF           | 710      | 10.84                     |
| Single Tenant Office                | KSF           | 715      | 13.07                     |
| Office Park                         | KSF           | 750      | 11.07                     |
| Business Park                       | KSF           | 770      | 12.44                     |
| Clinic                              | KSF           | 630      | 37.60                     |
| Medical-Dentist Office              | KSF           | 720      | 36.00                     |
| Median for Office                   |               |          | 12.76                     |
| Industrial                          |               |          |                           |
| General Light Industry              | KSF           | 110      | 4.87                      |
| General Heavy Industry              | KSF           | 120      | 1.50                      |
| Industrial Park                     | KSF           | 130      | 3.37                      |
| Manufacturing                       | KSF           | 140      | 4.75                      |
| Median for Industrial               |               |          | 4.06                      |
| Warehousing                         | KSF           | 150      | 3.56                      |
| Retail/Service - Low                |               |          |                           |
| Building Materials and Lumber       | KSF           | 812      | 17.05                     |
| Hardware/Paint Store                | KSF           | 816      | 8.07                      |
| Furniture Store                     | KSF           | 890      | 6.30                      |
| Discount Home Furnishing Superstore | KSF           | 869      | 20.00                     |
| Lire Superstore                     | KSF           | 849      | 20.37                     |
| Department Store                    | KSF           | 8/5      | 22.88                     |

| Land Use Category                                       | Unit    | ITE Code       | Weekday Trips<br>per Unit |
|---|---------|----------------|---------------------------|
| Tire Store  | KSF     | 848            | 27.69                     |
| Factory Outlet Center                                   | KSF     | 823            | 26.59                     |
| Home Improvement Superstore                             | KSF     | 862            | 30.74                     |
| New Car Sales   | KSF     | 841            | 27.06                     |
| Median for Retail - Low                                 |         |                | 21.63                     |
| Retail/Service - Medium                                 |         |                |                           |
| Discount Club   | KSF     | 857            | 42.46                     |
| Shopping Center   | KSF     | 820            | 37.01                     |
| Electronics Superstore                                  | KSF     | 863            | 41.05                     |
| Discount Superstore                                     | KSF     | 813            | 50.52                     |
| Arts and Crafts Store                                   | KSF     | 879            | 56.55                     |
| Discount Store  | KSF     | 815            | 53.87                     |
| Auto Parts Store  | KSF     | 843            | 54.57                     |
| Speciality Retail Center                                | KSF     | 814            | 63.66<br>50.52            |
| Median for Relait - Medium                              |         |                | 50.52                     |
| Retail/Service - High                                   |         |                |                           |
| Nursery (Garden Center)                                 | KSF     | 817            | 68.10                     |
| Supermarket   | KSF     | 850            | 93.84                     |
| Apparel Store   | KSF     | 876            | 66.40                     |
| Pharmacy/Drugstore w/o Drive Through Window             | KSF     | 880            | 90.08                     |
| Pharmacy/Drugstore with Drive Through Window            | KSF     | 881            | 108.40                    |
| Drive-in Bank   | KSF     | 912            | 100.35                    |
| Quality Restaurant                                      | KSF     | 931            | 83.84                     |
| High Turnover (Sit-Down) Restaurant                     | KSF     | 932            | 107.20                    |
| Lodging<br>Hotel  | Room    | 310            | 7 99                      |
| All Suites Hotel  | Room    | 310            | 4 40                      |
| Business Hotel  | Room    | 312            | 4.40                      |
| Motel   | Room    | 320            | 3.35                      |
| Median for Lodging                                      |         | 020            | 4.21                      |
| Public & Quasi-Public                                   |         |                |                           |
| Military Base   | KSF     | 501            | 0.39                      |
| Library   | KSF     | 590            | 72.05                     |
| Government Office Building                              | KSF     | 730            | 22.59                     |
| State Motor Vehicles Department                         | KSF     | 731            | 11.21                     |
| United States Post Office                               | KSF     | 732            | 103.94                    |
| Government Office Complex                               | KSF     | 733            | 27.92                     |
| Median for Public Sector                                |         |                | 25.26                     |
| School K-8th Grade                                      | Student | 520 & 522      | 2.25                      |
| School 9th-12 Grade                                     | Student | 522 & 530      | 1.98                      |
| Junior/Community College                                | Student | 540            | 1.15                      |
| Other Non-Residential                                   |         |                |                           |
| All Port and Terminal Uses                              |         | 000-099        | The trip                  |
| All Recreational Uses                                   |         | 300-399        | generation for any        |
| All Private Institutional Uses (Public Institutions are |         | 500 500        | project in these          |
| Convenience Market                                      |         | 000-099<br>001 | categories shall be       |
| Convenience Market with Gasoline Pumps                  |         | 853            | the ITF daily trip-       |
| Fast Food Restaurant with Drive Through                 |         | 934            | generation rate for       |
| Coffee/Donut Shop with Drive Through                    |         | 937            | their land use type       |
| Coffee/Donut Shop Drive Through No Seating              |         | 938            | or, at the                |

| Land Use Category                                       | Unit | ITE Code | Weekday Trips<br>per Unit |
|---|------|----------|---------------------------|
| Gasoline/Service Station                                |      | 944      | discretion of             |
| Gasoline/Service Station with Convenience Market        |      | 945      | agency staff,             |
| Gasoline/Service Station with Convenience Market and Ca | r    |          | through a                 |
| Wash  |      | 946      | separate traffic          |
| Self-Service Car Wash                                   |      | 947      | study                     |
| Based on ITE Trip Generation Manual, 11th Ed.           |      |          |                           |
| KSF = 1,000 square feet                                 |      |          |                           |

### 2.2 Growth Forecasts

Assumptions regarding future growth are critical inputs for a traffic mitigation fee since they help determine both whether roadway deficiencies will develop and how many new homes or square feet of new commercial development will contribute towards the costs of mitigations. Since the RTMF is a long-term program, we must look at long-term trends to arrive forecast growth over the study horizon. Figure 2.1 shows the number of housing starts for California for the period 1954 to 2020.



Figure 2.1 Housing Starts in California by Year<sup>2</sup>

Figure 2.1 shows the unstable nature of the housing market in California, with five major "housing booms" and five "housing busts" occurring during this period. Several patterns are discernible, namely:

- The housing booms are occurring further and further apart. Five years elapsed between the peaks of the 1972 and 1977 booms, 9 years between the peaks of the 1977 and 1986 booms, and 18 years between the 1986 and 2004 booms. If this pattern continues it may be decades before the next peak occurs.
- The size of the booms is trending downwards. The 2004 boom was the smallest of the five, being only about 2/3rds the size of the previous boom.
- From the 1960's through the 1980's single-family and multi-family housing was being built in similar quantities in California. Multi-family housing production exceeded single-family housing in 3 of the 4 housing booms in this period. The period from 1990 to 2005, when single-family housing was produced at more than 2½ times the pace of multi-family, appears in retrospect to have been an aberration from the historical pattern. Since 2005, multi-family housing has returned to being about half of all new housing being built.

<sup>&</sup>lt;sup>2</sup> Source: California Building Industry Association

 The housing market crash in 2008 also affected housing production significantly, where housing production was the lowest it's been since before the 1950's. As shown, the market is on a gradual recovery from that.

The Great Recession was deeper and much longer than any previous recession since WWII (see Figure 2.2) and the collapse of the real estate market was at the heart of the recession. This was, hopefully, a one-off event unlikely to recur within the time horizon of the current study (to 2045). More recently the real estate market has been affected by inflation and construction costs due to supply limitations from COVID. Employment losses with the statewide shut-down were significantly deeper than even the Great Recession. However, employment has bounced back relatively swiftly almost to post-2001 recession levels. There have been long-term travel and housing changes resulting from COVID-19 due to employers implementing flexible schedules and more people working from home. Housing prices were affected, short-term, and there was an increased demand for senior housing due to people going into early retirement from the shut-down and layoffs.

Nevertheless, it seems unlikely that things will "go to back to normal" (i.e., to the conditions prevailing in the 1990-to-2005 period) in terms of real estate development; structural and demographic changes have occurred resulting in a new normal. Any assumptions regarding real estate development that were made based on pre-recession or pre-COVID data therefore need to be re-examined to determine if they remain valid.



Figure 2.2 US Employment by Year<sup>3</sup>

Scaling down from the state-wide level to the local level, data from the U.S. Census Bureau shows that in recent years the foothills counties have been growing slowly, if at all, apart from Placer County (see Figure 2.3).

<sup>&</sup>lt;sup>3</sup> Source: Federal Reserve Bank of Minneapolis





Population forecasts by Caltrans<sup>4</sup> suggests that only modest growth can be expected for the foreseeable future (see Figure 2.4). The DOF's most recent forecast is for slower growth than had been anticipated in the 2015 forecasts used for the NCTC Regional Transportation Plan (RTP).





The growth forecasts used in the previous nexus study, which began in 2012, were based on data collected in the construction boom leading up to the Great Recession. The forecasts used in the current study are based on an

<sup>&</sup>lt;sup>4</sup> California Department of Finance. Demographic Research Unit. Report P-2A: Total Population Projections, California Counties, 2010-2060 (Baseline 2019 Population Projections; Vintage 2020 Release). Sacramento, California. July 2021.

assumed lower growth rate and therefore the 2040 population in the current forecast is lower than the prior 2035 forecast used in the previous study.

The lower forecast for future population has several effects on the RTMF, most notably:

- Fewer new households mean less traffic impacts and therefore less need for roadway improvements as mitigation. Some projects may no longer be needed, and a smaller portion of the need will be attributable to new development.
- However, for those projects that are stilled needed, fewer new dwelling units means that each will have to pay a higher share of the cost.

These trends work in opposite directions; the first would tend to lower fees while the second would tend to raise them. The interaction of these opposing trends is discussed further in a later section of this report.

Based on the growth projections supplied by the local jurisdictions and using the land use categories described in, the growth forecast by land use type is shown in Table 2.2.

| Table 2.2 | Land Use | Growth Forecast |
|-----------|----------|-----------------|
|-----------|----------|-----------------|

| Land Use Category       |       | Entire RTMF Are | a         |        | % Growth |
|-------------------------|-------|-----------------|-----------|--------|----------|
| Description             | Unit  | Year 2018       | Year 2040 | Growth |          |
| Residential             |       |                 |           |        |          |
| Single-Family Dwelling  | DU    | 31,768          | 34,353    | 2,585  | 8%       |
| Multi-Family Dwelling   | DU    | 2,422           | 4,003     | 1,581  | 65%      |
| Mobile Home             | DU    | 1,540           | 1,791     | 251    | 16%      |
| Senior Housing          | DU    | 1,101           | 1,561     | 460    | 42%      |
|                         | Total | 36,831          | 41,708    | 4,877  | 13%      |
| Non-Residential         |       |                 |           |        |          |
| Retail/Service - Low    | KSF   | 1,670           | 1,925     | 255    | 15%      |
| Retail/Service - Medium | KSF   | 1,336           | 1,540     | 204    | 15%      |
| Retail/Service - High   | KSF   | 334             | 385       | 51     | 15%      |
| Office                  | KSF   | 1,256           | 1,772     | 516    | 41%      |
| Office-Medical          | KSF   | 284             | 337       | 53     | 19%      |
| Industrial              | KSF   | 1,924           | 4,086     | 2,162  | 112%     |
| Lodging                 | Rooms | 573             | 670       | 97     | 17%      |

### 2.3 Funding from Other Sources

When computing the amount of an impact fee, the amount of funding available from other sources must be deducted from the project cost estimates to ensure that new development is not paying more than the actual cost of the project to the agency. State and federal funds for transportation improvements are channeled through the State Transportation Improvement Program (STIP), which is administered by the California Transportation Commission (CTC). For the purposes of this study there are two key features of the STIP; namely: 1) that the CTC allocates a share of statewide funding to Nevada County which NCTC then allocates among individual projects, subject to later review by the CTC, and 2) that STIP funding is difficult to predict and varies widely from year to year depending on the budget situation on the state level. Under these circumstances the best way to estimate future funding from the STIP is to look at the long-term average of funding from this source. This is done in Table 2.3. Based on the historical

average of \$7.9M/year in STIP funding we estimate that \$158M will be available from this source over the next 20 years.

| Year                     | Project  | STIP Funding  |  |  |  |  |
|--------------------------|--|---------------|--|--|--|--|
| 2002                     | SR 267 Truckee Bypass                                | \$33,500,000  |  |  |  |  |
| 2012                     | SR 49/La Barr Meadows Road Intersection Improvements | \$40,500,000  |  |  |  |  |
| 2014                     | Dorsey Drive Interchange                             | \$17,000,000  |  |  |  |  |
| 2015                     | SR 89 Mousehole - Pedestrian/Bike Path               | \$6,400,000   |  |  |  |  |
| 2015                     | 015 SR 49 La Barr Project North to McKnight Widening |               |  |  |  |  |
| Total Over 14-Year Perio | od   | \$110,800,000 |  |  |  |  |
| Annual Average of 14-Y   | \$7,914,000  |               |  |  |  |  |
| Amount Available Over    | 20 Years, Based on 14-Year Annual Average            | \$158,280,000 |  |  |  |  |

 Table 2.3
 Funding Available from Other Sources

#### 2.4 Updated Project Costs

The cost of road construction has varied significantly over the course of the last decade, so it is important that this be factored into the fee structure for the RTMF.

Figure 2.5 shows Caltrans' construction price index for highway projects for the period from 1900 to 2022. As shown, there was a slow and stable rise in prices throughout the 1990's and early years of the 2000's. However, in 2004 a combination of a construction boom, rising land and fuel costs, and the effect of a weakening U.S. dollar on the cost of imported construction materials, caused construction prices to rise more in a single year then they had in the previous 15 years combined; it is still the highest single-year increase since Caltrans started the index. This was followed in 2005 by the third-highest single-year increase. The rapid increase was followed by a rapid decrease with the collapse of the housing market, which used many of the same construction inputs as Caltrans.

The Caltrans cost index is based on actual bid prices for projects done in the previous year. There is a second cost index, prepared by the Engineering News Record (ENR) that is computed based on the market prices for various major inputs to road projects (concrete, steel, aggregate, etc.). This index is less volatile than the Caltrans index because it does not include the effect of contractors' changing profit expectations in response to strong or weak market conditions. The two indices are compared in Figure 2.5. The Caltrans index over the past seven years (since 2015) has experienced an overall 16% increase, and a 39% increase between 2015 and 2020, while the ENR index for California cities has experienced a 34% increase, and the ENR overall index have only experienced a 29% increase. The impacts of the COVID-19 pandemic increased and then subsequently lowered the index.



#### Figure 2.5 Caltrans' Construction Price Index, 1990-2022

NCTC policy specifies that the ENR index for California Cities is to be used as the basis for cost adjustments for the RTMF. This decision was based in part on the relative stability of the ENR index, which makes the fee program more predictable for developers compared to the highly volatile Caltrans index. Therefore, since the ENR (CA) index has risen 34% since the last nexus study, for projects where no recent cost estimates are available, the project cost estimates were increased 34% from the estimates used in the previous nexus study.

# 3. Updates to the Fee Calculation

An overview of the methodology used to compute the RTMF is provided in the section below, followed by sections providing more in-depth discussion of the key components. These are followed by sections describing the resulting fees and the revenues that would be raised by the RTMF under the different sets of policy options.

### 3.1 Computation Methodology

The methodology used in the fee computation is outlined in Figure 3.1 below. The major steps include:

- 1. The starting point was a set of forecasts for residential and non-residential growth from NCTC, the City of Grass Valley, Nevada City, and Nevada County. The forecasts were described in Section 2.2.
- The growth forecasts were used as inputs into the NCTC traffic model, which was then used to forecast traffic volumes for 2040. Recent traffic counts were used to find current traffic volumes. The volumes were then used to determine the level of service (LOS) for each potential project site under 2022 and 2040 conditions.
- 3. Each jurisdiction sets its LOS standards through resolutions, usually as part of its General Plan.
- 4. The existing and future LOS were compared to the LOS standard to determine where deficiencies currently exist and where they may develop in the future. Potential projects were identified that would correct the deficiencies.
- 5. The outputs of Step 4 were used to determine the percentage of the need for each potential project that is attributable to new development.
- 6. The estimated cost for different projects come from a variety of sources, including engineering studies and planning-level estimates.
- 7. The project cost estimates were updated, if necessary, using the Engineering New Record construction cost index to reflect current prices. This was described in Section 2.4.
- 8. The outputs from steps 5 and 7 were used to determine the dollar cost for each project that is attributable to new development.
- 9. Next, any funding that may be available from other sources for the listed projects was identified. This was discussed in Section 2.3.
- 10. The amount of funding available from other sources was compared to the project costs to determine if it exceeded the amount attributable to existing deficiencies (i.e., not attributable to new development). If so, the surplus of other funds was used to reduce the amount needed from new development. The result was the maximum amount of funding allowable by law that could potentially be collected using the RTMF.
- 11. The NCTC traffic model was used to determine the percentage share of growth in vehicle-miles traveled (VMT) that will be associated with residential and non-residential development.
- 12. The results of Steps 10 and 11 were then combined to determine the portion of project costs that could be attributed to new residential and non-residential development.
- 13. Next, the trip generation rate was determined for each land use type. For residential land uses the unit of measurement was daily trips/dwelling unit, while for non-residential uses trip-generation was measured in terms of daily trips/thousand square feet of space, except for schools, where the unit was daily trips/student and lodging, where daily trips/room were used.
- 14. The number of new units for each development type was then multiplied by the trip generation rate to produce the total number of new trips associated with each type of land use development.
- 15. The project funding attributable to residential and non-residential developments (from Step 12) was then divided by the expected number of new residential and non-residential trips (from Step 14) to produce the potential impact fee per trip for each type of unit.
- 16. AB 602 introduced a requirement that unit size be taken into account when assessing impact fees on new residential development. Data from the American Housing Survey and the National Cooperative Highway

Research Program (NCHRP) were used to estimate trip generation rates for different sized residential units. This is described in Section 3.7.

- 17. AB 602 offers agencies several options for incorporating dwelling size into a fee program. The NCTC Technical Advisory Committee selected an option that divided new dwellings into small, medium, and large size categories and applies different rates for different types of dwellings. This is described in Section 3.7.
- 18. The policies from Step 17 were applied to take the fees per trip from Step 15 and combine them with the trip generation rates from Step 13 (for non-residential units) and Step 16 (for residential units) to compute the fee per unit.

The next sections describe several key steps in the process in more detail.





### 3.2 Existing & Future Deficiencies

Existing and future deficiencies were identified by comparing the existing and future LOS to the LOS standards adopted by the local jurisdictions. For unincorporated Nevada County the LOS standard is D in all locations. For Grass Valley, the General Plan calls for LOS D at most locations. However, in some locations LOS E is allowed in order to maintain the walkable character of the historic downtown area<sup>5</sup>. For Nevada City, the LOS standard is at LOS D.

Table 3.1 shows the existing and future LOS at the project locations listed in the previous nexus study. Existing and forecasted traffic volumes and the LOS worksheets are included in the Appendix. Several additional sites were identified as potentially requiring improvement; these were added to the bottom of the table.

The previous nexus study (2016) identified 11 projects for the fee program. Of these:

- 2 have been completed but not yet paid for. This includes the Dorsey Drive Interchange, which was financed through bonds that will be repaid through the RTMF program, and improvements at the East Main/Bennett/Richardson intersection, which the City of Grass Valley paid for and will be seeking reimbursement from NCTC.
- 1 is now deemed unnecessary, due to the new, lower growth expectations.
- 8 are recommended to be retained in the fee program.

In addition, two new locations were considered: SR-49 south of McKnight Way (PM 13.1 to PM 11.0), and SR 174/Colfax Highway at Brunswick Road. These two locations were identified as having a future deficiency and being eligible for inclusion in the RTMF program.

The proposed improvements identified for the fee program are listed below:

- 1. SR 49 Interchange at Dorsey Drive new interchange (already constructed, retain for reimbursement)
- E. Main Street at Bennett Street/Richardson Street install a traffic signal (constructed, retain for reimbursement)
- 3. SR 49 Southbound PM 13.1 to PM 11.0 widen to 2 lanes
- 4. SR 49 at McKnight Way Interchange improvement project
- 5. McCourtney Road at SR 20 Eastbound Ramps intersection improvements
- 6. SR 20/49 Northbound Ramps at Idaho-Maryland Road install traffic signal
- 7. SR 20/49 at Uren Street intersection improvements or traffic signal
- 8. Brunswick Road at SR 174/Colfax highway intersection improvements or traffic signal
- 9. SR 29 at Coyote Street intersection improvements

<sup>&</sup>lt;sup>5</sup> See City of Grass Valley Resolution 2013-33

| Project ID<br>(Prior | Project  |   | Traffic           | 1.05     | Previous I<br>Study (Exi     | lexus<br>sting) | Previous N<br>Study (20      | Nexus<br>D35) | Current No<br>Study (Exis    | exus<br>sting) | Current N<br>Study (20       | exus<br>040) |  |
|----------------------|----------|---|-------------------|----------|------------------------------|-----------------|------------------------------|---------------|------------------------------|----------------|------------------------------|--------------|--|
| 2015<br>Study)       | ID (New) | Intersection                                | Control           | Standard | Delay<br>(sec/veh)<br>or ADT | LOS             | Delay<br>(sec/veh)<br>or ADT | LOS           | Delay<br>(sec/veh)<br>or ADT | LOS            | Delay<br>(sec/veh)<br>or ADT | LOS          | Notes  |
| 1                    | 1        | SR 20/49 SB Ramps/Dorsey Dr                 | Signal            | D        | 10.8                         | В               | 40.4                         | D             | N/A                          |                | N/A                          |              | Improvements identified in the previous study have already been built - keep for   |
|                      |          | SR 20/49 NB Ramps/Dorsey Dr                 | Signal            | D        | 13.2                         | В               | 13.0                         | В             | N/A                          |                | N/A                          |              | reimbursement.   |
|                      | 2        | E. Main St/Bennett/Richardson               | Signal            | D        |                              |                 |                              |               | N/A                          |                | N/A                          |              | The improvements identified in the original RTMF study have already been built. Keep for<br>reimbursement.   |
|                      |          | SR-49: South of McKnight Way to PM 13.1     | 4-lane<br>Freeway | D        | 26,085                       | С               | 27,800                       | С             | 27,500                       | С              | 37,440                       | С            | Constructed. Split into 2 segments for 4-lane section where freeway/highway transitions.   |
|                      | 3        | SR-49: PM 13.1 to PM 11.0                   | 2-lane<br>Highway | D        |                              |                 |                              |               | 27,500                       | F              | 37,440                       | F            | Deficient for 2-lane highway section.  |
| 2                    |          | SR-49: South of La Barr Meadows Rd (SB)     | 1 lane            | D        | 11,604                       | F               | 12,050                       | F             | 12,400                       | F              | 16,470                       | F            | Has 2 lanes NB and 1 lane SB, so LOS is different for the two directions of travel. Deficiency   |
|                      |          | SR-49: South of La Barr Meadows Rd (NB)     | 2 lanes           | D        | 11,604                       | С               | 12,050                       | С             | 12,400                       | С              | 17,190                       | Е            | remains, however funding not identified and too costly to keep in program.   |
| 3                    |          | SR-49: South of Alta Sierra Dr (SB)         | 1 lane            | D        | 11,498                       | F               | 11,650                       | F             | 12,800                       | F              | 15,500                       | F            | Has 2 lanes NB and 1 lane SB, so LOS is different for the two directions of travel. Deficiency   |
| 0                    |          | SR-49: South of Alta Sierra Dr (NB)         | 2 lanes           | D        | 11,498                       | С               | 11,650                       | С             | 12,800                       | С              | 16,550                       | D            | remains, however funding not identified and too costly to keep in program.   |
| 4                    |          | SR-49: South of Wolf Creek                  |                   | D        | 27,852                       | F               | 28,300                       | F             | 23,300                       | F              | 31,490                       | F            | Deficiency remains, however funding not identified and too costly to keep in program.  |
|                      |          | SR-20/49: Bennett St to Idaho-Maryland Rd   |                   | D        |                              |                 | 54,400                       | С             | 39,500                       | D              | 46,840                       | D            | Reviewed at NCTC's request. No deficiency found.   |
|                      |          | McKnight Way/Taylorville Rd                 | SSSC              | D        | 13.3                         | В               | 14.5                         | В             | 12.1                         | В              | 13.6                         | В            | Deficient in both previous and current nexus study. An in-depth Intersection Control Evaluation  |
| 5                    | 4        | McKnight Way/SR 49 NB Ramps                 | Signal            | D        |                              | F               | 14.8                         | В             | 16.8                         | В              | 21.1                         | С            | (ICE) was performed in 2018/19, which determined that the complex turning movements in<br>these 4 closely-spaced intersections would always result in at least one intersection failing. |
| -                    |          | McKnight Way/SR 49 SB Ramps                 | Signal            | D        |                              | F               | 41.5                         | D             | 13.1                         | В              | 16.8                         | В            | The recommended solution was several roundabouts. The attribution to future development is   |
|                      |          | McKnight Way/S.Auburn St/La Barr Meadows Rd | SSSC              | D        | 13.3                         | В               | 14.5                         | В             | 20.4                         | С              | 106.3                        | F            | based on the change in entering volumes.   |
| 6                    | 5        | McCourtney Rd/SR 20 EB Ramps                | SSSC              | D        | 155.8                        | F               | 155.4                        | F             | 43.5                         | Е              | 127.3                        | F            | Deficiency remains.  |
| 7                    | 6        | SR 20/49 NB Ramps/Idaho Maryland Rd         | AWSC              | D        | 20.6                         | С               | 50.8                         | F             | 22.1                         | С              | 62.9                         | F            | Deficiency remains.  |
|                      |          | SR 20/49 NB Ramps/Ridge Rd/Gold Flat Rd     | AWSC              | D        | 19.3                         | С               | 21.5                         | С             | 17.6                         | С              | 19.9                         | С            | Reviewed again. Not deficient under prior or revised assumptions.  |
| 8                    |          | SR 20/49 SB Ramps/Ridge Rd/Gold Flat Rd     | AWSC              | D        | 39.7                         | Е               | 55.2                         | F             | 26.6                         | D              | 31.7                         | D            | Deficient in previous nexus study but not deficient under revised assumptions (lower counts<br>and higher peak hour factor).   |
| 9                    | 7        | SR 20/SR 49/Uren St                         | SSSC              | D        | OVR                          | F               | OVR                          | F             | OVR                          | F              | OVR                          | F            | Deficiency remains.  |
|                      |          | Brunswick Rd/E Bennett St/Greenhorn Rd      | AWSC              | D        | 21.3                         | С               | 41.4                         | Е             | 19.0                         | С              | 27.5                         | D            | Deficient in previous nexus study but not deficient under revised assumptions; slightly lower<br>forecasts. LOS D/E cusp.  |
|                      | 8        | Brunswick Rd/SR 174/Colfax Highway          | SSSC              | D        | 17.1                         | С               | 20.4                         | с             | 33.3                         | D              | 59.5                         | F            | Deficient in 2008 study but not in 2016 forecast. Revised base and forecast models shows<br>deficiency in future.  |
|                      |          | SR-49/Cement Hill Rd                        | SSSC              | D        | 23.7                         | С               | 34.0                         | D             | 16.5                         | С              | 20.5                         | С            | NCTC requested to review again. No deficiency.   |
| 11                   | 9        | SR-49/Coyote St                             | SSSC              | D        | 66.5                         | F               | 116.9                        | F             | 44.3                         | E              | 54.3                         | F            | Deficiency remains.  |
|                      |          | State Highway Projects                      |                   |          |                              |                 |                              |               |                              |                |                              |              | Listed individually - REMOVED  |
|                      |          | Admin Costs and 5-year reviews              |                   |          |                              |                 |                              |               |                              |                |                              |              | Computed as a percentage of total project costs.   |

#### Table 3.1 Existing & Future LOS at Proposed Project Locations

Notes:

For signalized intersections average delay and LOS for all approaches are reported.

"AWSC" means "all way stop-controlled." For AWSC intersections, average intersection delay and LOS are reported.

"SSSC" means "side-street stop controlled." For SSSC intersections, delay and LOS for the worst performing approach are reported.

"OVR" means >300 seconds of delay per vehicle.

LOS results beyond the LOS standards are shown in gray cells with bold text.

### 3.3 Portion of Project Need Attributable to New Development

The procedure for determining the percentage of the need to improve a roadway facility that is attributable to new development is illustrated in Figure 3.2.



Figure 3.2 Percent Attributable Cases

The capacity is the maximum volume that can be accommodated at the adopted LOS. Figure 3.2 shows a hypothetical roadway with a capacity of 1,000 vehicles/hour. There are three possible cases, namely:

- In Case 1, the roadway facility is operating at below its capacity under existing conditions and is forecast to continue to do so under future (2040 conditions. In such cases there is no deficiency and so no impact fees can be collected for the project<sup>6</sup>.
- In Case 2 the facility operates below its maximum capacity under existing conditions, but the capacity is insufficient to accommodate the expected future growth in traffic. In such cases the need to provide additional capacity is entirely attributable to new development.
- In Case 3 the traffic using the facility already exceeds its rated capacity and the expected growth in traffic will
  exacerbate the situation. In such cases the percentage attributable to new development is the portion of the
  volume beyond the rated capacity that comes from new development (Y/X).

Table 3.2 shows how this methodology was applied to the projects identified in Table 3.1 as having existing and/or future deficiencies.

<sup>&</sup>lt;sup>6</sup> This is not to say that the project is not justified; only that the justification is unrelated to the need to provide additional capacity to accommodate future development. The seismic retrofit of a bridge would be an example of a project where the need is not based on insufficient capacity.

|  | Table 3.2 | Percent of Pro | iect Need Attr | ributable to New | Development | (Project LOS) |
|--|-----------|----------------|----------------|------------------|-------------|---------------|
|--|-----------|----------------|----------------|------------------|-------------|---------------|

|   |                     |                          |                                   |                 |   | Existi      | ng        |                | Future (2                                 | Future (2040) Without Improvements |           |                 |   |
|---|---------------------|--------------------------|-----------------------------------|-----------------|---|-------------|-----------|----------------|---|------------------------------------|-----------|-----------------|---|
| Project ID<br>(from<br>Previous<br>Study) | Project ID<br>(New) | Facility                 | Location                          | LOS<br>Standard | Peak-Hour<br>Entering<br>Volume<br>or ADT | Capacity*   | V/C Ratio | LOS            | Peak-Hour<br>Entering<br>Volume<br>or ADT | Capacity*                          | V/C Ratio | LOS             | % of Deficiency<br>Attributable to<br>New Development |
|   |                     |                          |                                   | (A)             | (B)                                       | (C)=(A)/(B) | (D)       | (E)            | (F)                                       | (G)=(E)/(F)                        | (H)       | (I)=(G-D)/(D-1) |   |
| 1   | 1                   | Dorsey Drive Interchange | D                                 |                 |   |             |           | (keep for rein | nbursement)                               |                                    |           | 33%             |   |
|   | 2                   | E. Main St               | @Bennett/Richardson               | D               |   |             |           |                | (keep for reimbursement                   |                                    |           |                 | 100%  |
|   | 3                   | SR-49                    | PM 13.1 to PM 11.0                | D               | 27,500                                    | 16,650      | 1.65      | F              | 37,440                                    | 16,650                             | 2.25      | F               | 48%   |
| 5,10                                      | 4                   | McKnight Way             | @ S. Auburn St/La Barr Meadows Rd | D               |   |             |           | С              |   |                                    |           | F               | 100%  |
| 6   | 5                   | McCourtney Rd            | @ SR 20 Eastbound Ramps           | D               | 1,072                                     | 980         | 1.09      | E              | 1,230                                     | 980                                | 1.26      | F               | 63%   |
| 7   | 6                   | SR 20/49 NB Ramps        | @ Idaho-Maryland Road             | D               |   |             |           | С              |   |                                    |           | F               | 100%  |
| 9   | 7                   | SR 20/49                 | @ Uren Street                     | D               | 1,492                                     | 1,190       | 1.25      | F              | 1,685                                     | 1,190                              | 1.42      | F               | 39%   |
|   | 8                   | Brunswick Road           | @ SR 174/Colfax Highway           | D               |   |             |           | D              |   |                                    |           | F               | 100%  |
| 11  | 9                   | SR 49                    | @ Coyote Street                   | D               | 1,132                                     | 960         | 1.18      | E              | 1,260                                     | 960                                | 1.31      | F               | 43%   |

\* For roadway segments, capacity is as defined in the General Plan. For intersections, capacity is defined as the maximum sum of the approach volumes that does not exceed the LOS standard \*\* Calculated using model runs that showed the percentage of future traffic was attributable to existing demand and how much was attributable to new demand

\*\*\* Not in previous nexus study

V/C Ratio = Volume to Capacity ratio

As can be seen from Table 3.2, of the 11 sites where deficiencies were identified, there were only 2 locations where the need for the project is wholly attributable to new development (i.e., Case 2 in Figure 3.2). In the 9 other locations a deficiency already exists to some degree and new development is responsible for only a portion of the need for improvement (i.e., Case 3 in Figure 3.2).

# 3.4 Determination of Amount Collectible through the RTMF

The amount potentially collectable through the RTMF program was calculated using the updated project costs, the percentage of project need attributable to new development shown in Table 3.2, and the funding available from other sources shown in Table 2.3. This calculation is shown in Table 3.3.

Column F in Table 3.3 shows funding available that is in excess of the funding needed to correct existing deficiencies (Column D). The funds shown in Column J show how future development in Nevada County has benefitted from state and federal grant funding, since if funds had not come from those other sources, then these amounts would have been collectable from new development through impact fees.

Additionally, a policy decision was made to remove several widening projects along SR 49 in this update. This is due to the high cost associated with those improvements (approximately >\$200M) and the fact that funds from other sources for the portion not funded through the fee program are not realistically attainable. However, NCTC will continue to pursue funding sources for the SR 49 widening improvements and these projects may return in the next update of the nexus study. Please note that SR 49 southbound from post mile 13.1 to 11.0 continues to be in the program because funding for that section has been identified.

#### Table 3.3 Amount Potentially Collectable Through RTMF between 2023 to 2040 (Project Costs)

| Project<br>ID<br>(New) | Facility                 | Location                 | Updated<br>Cost<br>Estimate | % of Need<br>Attributable to<br>New<br>Development | Costs<br>Attributable to<br>New<br>Development | Costs Attributable<br>to Existing<br>Deficiencies (not<br>New Development) | Funding<br>from Other<br>Sources<br>(STIP,<br>SHOPP, etc.) | Funds from other<br>sources beyond what<br>is needed for existing<br>deficiencies | Amount<br>Potentially<br>Collectable from<br>Mitigation Fees | RTMF<br>Funds<br>Currently<br>Available | RTMF Funds<br>Collected in<br>Prior Years | RTMF Funds<br>Previously<br>Collected | Amount<br>Potentially<br>Collectable<br>from Mitigation<br>Fees | Funds Needed<br>from Other<br>Sources |
|------------------------|--------------------------|--------------------------|-----------------------------|--|--|--|--|---|--|---|---|---------------------------------------|---|---------------------------------------|
|                        |                          |                          | (A)                         | (B)  | (C) = (A)*(B)                                  | (D) = (A) - (B)  | (E)  | If (E)>(D), (F)=(E)-(D)<br>Otherwise (F) = 0                                      | (G)=(C)-(F)  | (H)                                     | (I)                                       |                                       | (J)=(G)-(H)-(I)   | (K)=(A)-(E)-(J)                       |
| 1                      | SR-49 Interchange        | Dorsey Drive             | \$24,000,000                | 33%  | \$7,991,555                                    | \$16,008,445   | \$19,385,609   | \$3,377,164   | \$4,614,391  | \$1,016,041                             | \$1,713,691                               | \$2,729,732                           | \$1,884,659   | \$0                                   |
| 2                      | E.Main St                | @ Bennett St/Richardson  | \$1,500,000                 | 100%   | \$1,500,000                                    | \$0  | \$0  | \$0   | \$1,500,000  | \$0                                     | \$1,500,000                               | \$1,500,000                           | \$0   | \$0                                   |
| 3                      | SR-49 SB                 | PM 13.1 to PM 11.0 (SB)  | \$21,000,000                | 48%  | \$10,040,404                                   | \$10,959,596   | \$18,400,000   | \$7,440,404   | \$2,600,000  | \$0                                     | \$0                                       | \$0                                   | \$2,600,000   | \$0                                   |
|                        | McKnight Way             | @ S. Auburn St/La Barr   |                             |  |  |  |  |   |  |   |   |                                       |   |                                       |
| 4                      | Interchange              | Meadows Rd               | \$9,663,269                 | 100%   | \$9,663,269                                    | \$0  | \$2,000,000  | \$2,000,000   | \$7,663,269  | \$0                                     | \$0                                       | \$0                                   | \$7,663,269   | \$0                                   |
| 5                      | McCourtney Rd            | @ SR 20 EB Ramps         | \$2,083,969                 | 63%  | \$1,317,068                                    | \$766,901  | \$0  | \$0   | \$1,317,068  | \$0                                     | \$0                                       | \$0                                   | \$1,317,068   | \$766,901                             |
| 6                      | SR 20/49 NB Ramps        | @ Idaho Maryland Rd      | \$1,847,696                 | 100%   | \$1,847,696                                    | \$0  | \$0  | \$0   | \$1,847,696  | \$0                                     | \$0                                       | \$0                                   | \$1,847,696   | \$0                                   |
| 7                      | SR 20/SR 49              | @ Uren St                | \$1,457,566                 | 39%  | \$568,304                                      | \$889,263  | \$0  | \$0   | \$568,304  | \$0                                     | \$0                                       | \$0                                   | \$568,304   | \$889,263                             |
| 8                      | Brunswick Road           | @ SR 174/Colfax          | \$1,384,179                 | 100%   | \$1,384,179                                    | \$0  | \$0  | \$0   | \$1,384,179  | \$0                                     | \$0                                       | \$0                                   | \$1,384,179   | \$0                                   |
| 9                      | SR-49                    | @ Coyote St              | \$468,604                   | 43%  | \$199,938                                      | \$268,666  | \$0  | \$0   | \$199,938  | \$0                                     | \$0                                       | \$0                                   | \$199,938   | \$268,666                             |
| 10                     | program)                 |                          |                             | 100%   |  |  |  |   |  |   |   |                                       | \$349,302   |                                       |
|                        | Total                    |                          | \$63,405,283                |  | \$34,512,413                                   | \$28,892,870   | \$39,785,609   | \$12,817,568  | \$21,694,845   | \$1,016,041                             | \$3,213,691                               | \$4,229,732                           | \$17,814,415  | \$1,924,829                           |
|                        | As a percent of total co | osts for needed projects |                             |  | 54%  | 46%  | 63%  | 20%   | 34%  | 2%                                      | 5%  | 7%                                    | 28%   | 3%                                    |

#### 3.5 Residential & Non-Residential Shares of Traffic Impacts

Vehicle-miles travelled (VMT) is the main indicator of traffic impacts. VMT takes into account the fact that traffic impacts are proportional both to the number of new trips associated with the development and the average length of those trips. Outputs from the NCTC Travel Demand Model were used to forecast the growth in VMT for the five different types of trips that are represented in the model. The growth in VMT from new development was attributed to residential and non-residential developments based on trip type. Standard practice for how to do this can be found in NCHRP Report 187<sup>7</sup>, a primary reference for travel estimation techniques used in travel demand modeling, which states that "HBW (Home Based Work) and HBNW (Home Based Non-Work) trips are generated at the households, whereas the NHB (Non-Home Based) trips are generated elsewhere." NCTC policy follows this practice by attributing all trips beginning or ending at the traveler's home (roughly 2/3rds of all trips) to the residential land use while all trips not involving a residential location (roughly 1/3rd of all trips) are attributed to non-residential land uses. The Non-Home-Based trips include things like trip chaining between locations other than the traveler's home.

Figure 3.3 shows the average trip length by trip purpose in the NCTC traffic model. The four home-based trip purposes, shown in grey, have longer average lengths than non-home-based trips. VMT-based fees tend to shift the incidence of the fees away from non-residential development and more towards residential development, compared to trip-based fees.





The forecast growth in VMT from residential and non-residential land uses is shown Table 3.4.

Table 3.4 Percentage of VMT Growth Attributable to Residential & Non-Residential Development

| Trip Purpose                            | Growth in<br>VMT | % of Total<br>VMT Growth |
|---|------------------|--------------------------|
| Attributable to Residential Development |                  |                          |
| Home-Base Other Trips                   | 122,759          | 36%                      |
| Home-Base Work Trips                    | 169,544          | 49%                      |

<sup>&</sup>lt;sup>7</sup> Quick Response Urban Travel Estimation Techniques and Transferable Parameters User's Guide, Transportation Research Board, 1978

| Trip Purpose                                | Growth in<br>VMT | % of Total<br>VMT Growth |
|---|------------------|--------------------------|
| Home-Based School Trips                     | 2,068            | 1%                       |
| Home-Based Sierra College Trips             | 1,427            | 0%                       |
| Attributable to Non-Residential Development |                  |                          |
| Non-Home-Based Trips                        | 47,670           | 14%                      |
| Total                                       | 343,467          | 100%                     |

Based on this calculation, 86% of VMT growth was attributed to residential development and 14% was attributed to non-residential development.

### 3.6 Consideration of Residential Floor Area

Since the 2016 nexus study, the State of California has instituted a new policy<sup>8</sup> pertaining to fees on residential developments. California Government Code (CGC) Section 66016.5(a)(5), which is new with the enactment of AB-602, states that,

- "(A) A nexus study adopted after July 1, 2022, shall calculate a fee imposed on a housing development project proportionately to the square footage of proposed units of the development. A local agency that imposes a fee proportionately to the square footage of the proposed units of the development shall be deemed to have used a valid method to establish a reasonable relationship between the fee charged and the burden posed by the development.
- (B)A nexus study is not required to comply with subparagraph (A) if the local agency makes a finding that includes all of the following:
  - (i) An explanation as to why square footage is not appropriate metric to calculate fees imposed on housing development project.
  - (ii) An explanation that an alternative basis of calculating the fee bears a reasonable relationship between the fee charged and the burden posed by the development.
  - (iii) That other policies in the fee structure support smaller developments, or otherwise ensure that smaller developments are not charged disproportionate fees.
- (C) This paragraph does not prohibit an agency from establishing different fees for different types of developments."

AB 602 applies to impact fee programs generally and was not specifically designed to suit transportation impact fees regarding trip generation and unit size. Web research revealed that there are currently no well-established sources for trip generation rates based on residential unit size. However, data on the number of persons per household can be obtained from the U.S. Census Bureau's American Housing Survey, and data on the number of trips by household size is available from the National Cooperative Highway Research Program (NCHRP) Report 716, *Travel Demand Forecast: Parameters and Techniques*. This data was combined as shown in Table 3.5.

<sup>&</sup>lt;sup>8</sup> Assembly Bill 602, signed into law in September 2021.

| Persons                | Trips                                 | Less than    | 1,500 sq.ft  |                 | 1,501 to 2,   | 500 sq.ft               |                 | Greater th  | nan 2,500 s        | q.ft        |
|------------------------|---------------------------------------|--------------|--------------|-----------------|---------------|-------------------------|-----------------|-------------|--------------------|-------------|
| per                    | per                                   | Number       | Percent of   | Trips           | Number        | Percent                 | Trips           | Number      | Percent            | Trips       |
| House-                 | House-                                | of Units     | Units        |                 | of Units      | of Units                |                 | of Units    | of Units           |             |
| hold                   | hold                                  |              |              |                 |               |                         |                 |             |                    |             |
|                        | (A)                                   | (B)          | (C)=(B)*Σ(B) | (D)=(A)<br>*(C) | (E)           | (F)=(E)*<br><u>Σ(E)</u> | (G)=(A)*(F<br>) | (H)         | (I)=(H)*Σ<br>  (H) | (J)=(A)*(I) |
| 1                      | 4.1                                   | 21,895       | 39%          | 1.58            | 7,828         | 20%                     | 0.81            | 2,387       | 12%                | 0.48        |
| 2                      | 8.2                                   | 18,076       | 32%          | 2.61            | 14,701        | 37%                     | 3.04            | 7,754       | 38%                | 3.11        |
| 3                      | 11.2                                  | 7,592        | 13%          | 1.50            | 6,928         | 17%                     | 1.96            | 3,098       | 15%                | 1.70        |
| 4                      | 16.1                                  | 5,355        | 9%           | 1.52            | 5,928         | 15%                     | 2.41            | 4,106       | 20%                | 3.24        |
| 5                      | 18.6                                  | 2,368        | 4%           | 0.78            | 2,754         | 7%                      | 1.29            | 1,924       | 9%                 | 1.75        |
| 6                      | 18.6                                  | 907          | 2%           | 0.30            | 989           | 2%                      | 0.46            | 755         | 4%                 | 0.69        |
| 7+                     | 18.6                                  | 525          | 1%           | 0.17            | 553           | 1%                      | 0.26            | 398         | 2%                 | 0.36        |
| Total                  |                                       | 56,718       | 100%         | 8.46            | 39,681        | 100%                    | 10.22           | 20,422      | 100%               | 11.33       |
| Average P<br>Per House | Average Persons 2.17<br>Per Household |              | -            | 2.66            |               |                         | 2.97            |             |                    |             |
| Trip-Gen I<br>% of SFD | Rate as a<br>Average                  |              | 83%          |                 |               | 100% 111%               |                 |             |                    |             |
| Sources:               | Columns                               | (A),(C) - NC | HRP Report 7 | 16, Colum       | nns (B), (E), | and (H) - Ar            | merican Hou     | sing Survey | /                  |             |

 Table 3.5
 Computation of Average Trip Generation by Dwelling Size Category

As can be seen in Table 3.5, although the trip generation rate is somewhat related to the size of the residence, it is not directly proportional to the floor area, as is assumed in Section 66016.5(a)(5)(A). We therefore find, pursuant to Section 66016.5(a)(5)(B)(i), that it would not be appropriate to use square footage directly as the metric of traffic impacts for the purposes of this fee program. We instead find, pursuant to Section 66016.5(a)(5)(B)(i), that the data supports basing the fees on new small, medium, and large-sized homes on the relationships shown in the bottom row of Table 3.5. We further find, pursuant to Section 66016.5(a)(5)(B)(ii), that the data smaller units would not be charged disproportionate fees compared to larger units.

CGC Section 66016.5(a)(5)(C) allows agencies to establish different fees for different types of developments. In alignment with AB 602, NCTC believes that fees on multi-family and senior housing should be set lower than those of single-family dwellings, in recognition of their lower trip generation rates. Unfortunately, a calculation like that shown in Table 3.5 could not be done for these other classes of residential development because the American Housing Survey only has data on the number of persons per household for single-family dwellings (Table 3.5 uses SFD data). DUEs for multi-family, mobile homes, and senior age-restricted housing were therefore calculated based on their respective PM peak-hour trip-generation rates found in ITE's *Trip Generation Manual*. The average size for these housing types in the RTMF fee area falls within the "Small" category, so the ITE average rate for them was used to compute the "Small" value. The ratio of the values shown in the bottom row of Table 3.5 were then used to compute the DUEs for "Medium" and "Large" multi-family, mobile homes, and senior age-restricted housing age-restricted housing. The results as shown in Table 3.6.

#### Table 3.6 Computation of Dwelling DUEs by Size and Dwelling Type

| Dwelling Type          | ITE 11th Edition | Average Unit as % | Dwelling Unit Equivalents (DUE) |                                     |                             |  |  |
|------------------------|------------------|-------------------|---------------------------------|-------------------------------------|-----------------------------|--|--|
|                        | (Daily)          | Trip-Gen Rate     | Small<br>(< 1,500<br>sq.ft)     | Medium<br>(1,501 to<br>2,500 sq.ft) | Large<br>(> 2,500<br>sq.ft) |  |  |
| Single-Family Dwelling | 9.43             | 100%              | 0.83                            | 1.00                                | 1.11                        |  |  |
| Multi-Family Dwelling  | 4.54             | 48%               | 0.48                            | 0.58                                | 0.64                        |  |  |
| Senior Age-Restricted  | 3.78             | 40%               | 0.40                            | 0.48                                | 0.54                        |  |  |
| Mobile Home            | 7.12             | 76%               | 0.76                            | 0.91                                | 1.01                        |  |  |

Since fees are based on DUEs, as can be seen in Table 3.6, the highest fees would be paid by large single-family dwellings, which would pay 111% of the base rate for SFD. The lowest fees would be paid by small senior dwellings, which would pay 40% of the base rate.

#### 3.6.1 Accessory Dwelling Units (ADUs)

In addition to the considerations discussed above pursuant to AB-602, a separate piece of legislation, SB-13, passed in 2019, establishes a new system for assessing fees on accessory dwelling units (ADUs). It amended CGC Section 65852.2(3)(A)(f)(3) to read,

"A local agency, special district, or water corporation shall not impose any impact fee upon the development of an accessory dwelling unit less than 750 square feet. Any impact fees charged for an accessory dwelling unit of 750 square feet or more shall be charged proportionately in relation to the square footage of the primary dwelling unit."

Based on this sub-section, if an ADU is smaller than 750 square feet then it is exempt from RTMF fees. Fees on ADU's larger than 750 square feet require a two-part calculation. First the RTMF fee that would be charged to the primary unit (if it were new) is calculated, then the fee on the ADU is computed based on the ratio of its floor area in relation to the primary unit. For example, if the primary dwelling was 2,000 sq.ft. and would be charged a fee of \$800, then an ADU 1,000 sq.ft. in size on that property would be charged a fee of \$400.

### 3.7 Determination of Total Trips and Fee per Trip

As described earlier, the next step in the process is to determine the total number of trips for residential and nonresidential development. For residential units, the total number of new dwelling units from Table 2.2 is split amongst small, medium, and large unit sizes, and then multiplied by the trip generation rate for each category (see Table 2.1) and also by the DUE for each dwelling size from Table 3.6. For non-residential units, the total trips were calculated by multiplying the trip generation rate for each land use category (see Table 2.1) by number of new units of each land use type (Table 2.2). The results are shown in Table 3.7.

| Land Use                      | Unit | Trip-<br>Gen<br>Rate | Estimated Split<br>of Residential<br>Units by<br>Dwelling Type | # of New<br>Units             | Dwelling<br>Unit<br>Equivalent<br>(DUE) | Daily Trips     |
|-------------------------------|------|----------------------|--|-------------------------------|---|-----------------|
|                               |      | (A)                  | (B)  | (C)=(C <sub>Total</sub> )*(B) | (D)                                     | (E)=(A)*(C)*(D) |
| Residential                   |      |                      |  |                               |   |                 |
| Single-Family Dwelling Totals | DU   |                      |  | 2,585                         |   | 23,844          |
| Small (<1,500 sq.ft.)         | DU   | 9.43                 | 29%  | 750                           | 83%                                     | 5,870           |

| Table 3.7 | Total Trips by Land Use - Residential and Non-Residential Trips |
|-----------|---|
|-----------|---|

| Land Use                     | Unit     | Trip-<br>Gen<br>Rate | Estimated Split<br>of Residential<br>Units by<br>Dwelling Type | # of New<br>Units             | Dwelling<br>Unit<br>Equivalent<br>(DUE) | Daily Trips     |
|------------------------------|----------|----------------------|--|-------------------------------|---|-----------------|
|                              |          | (A)                  | (B)  | (C)=(C <sub>Total</sub> )*(B) | (D)                                     | (E)=(A)*(C)*(D) |
| Medium (1,500-2,500 sq.ft.)  | DU       | 9.43                 | 46%  | 1,189                         | 100%                                    | 11,212          |
| Large (<2,500 sq.ft.)        | DU       | 9.43                 | 25%  | 646                           | 111%                                    | 6,762           |
| Multi-Family Dwelling Totals | DU       |                      |  | 1,581                         |   | 3,445           |
| Small (<1,500 sq.ft.)        | DU       | 4.54                 | 100%   | 1581                          | 48%                                     | 3,445           |
| Medium (1,500-2,500 sq.ft.)  | DU       | 4.54                 | 0%   | 0                             | 58%                                     | 0               |
| Large (<2,500 sq.ft.)        | DU       | 4.54                 | 0%   | 0                             | 64%                                     | 0               |
| Mobile Home in Park          | DU       |                      |  | 251                           |   | 1,460           |
| Small (<1,500 sq.ft.)        | DU       | 7.12                 | 63%  | 158                           | 76%                                     | 855             |
| Medium (1,500-2,500 sq.ft.)  | DU       | 7.12                 | 36%  | 90                            | 91%                                     | 583             |
| Large (<2,500 sq.ft.)        | DU       | 7.12                 | 1%   | 3                             | 101%                                    | 22              |
| Senior Housing               | DU       |                      |  | 460                           |   | 819             |
| Small (<1,500 sq.ft.)        | DU       | 3.78                 | 29%  | 133                           | 40%                                     | 201             |
| Medium (1,500-2,500 sq.ft.)  | DU       | 3.78                 | 46%  | 212                           | 48%                                     | 384             |
| Large (<2,500 sq.ft.)        | DU       | 3.78                 | 25%  | 115                           | 54%                                     | 234             |
| Total Residential            |          |                      |  |                               |   | 29,568          |
| Non-Residential              |          |                      |  |                               |   |                 |
| Retail - Low                 | KSF      | 24.74                |  | 255                           |   | 5,514           |
| Retail - Medium              | KSF      | 47.62                |  | 204                           |   | 10,306          |
| Retail - High                | KSF      | 91.96                |  | 51                            |   | 4,690           |
| Office                       | KSF      | 12.76                |  | 569                           |   | 7,258           |
| Light Industry               | KSF      | 4.75                 |  | 2,162                         |   | 10,270          |
| Warehouse                    | KSF      | 3.56                 |  | 73                            |   | 260             |
| Lodging                      | Rooms    | 4.21                 |  | 97                            |   | 408             |
| Public & Quasi-Public*       | KSF      | 22.59                |  | 28                            |   | 633             |
| School K-8th Grade*          | Students | 2.25                 |  | 499                           |   | 1,122           |
| School 9-12th Grade*         | Students | 1.98                 |  | 298                           |   | 590             |
| Community College*           | Students | 1.15                 |  | 439                           |   | 505             |
| Total Non-Residential        |          |                      |  |                               |   | 41,555          |

\* Public Sector

Note: Column (B), Estimated Split of Residential Units by Dwelling Type, is based on last 5 years of housing permits from Nevada County and Grass Valley.

The portion of project costs attributable to new development (see Table 3.3) was multiplied by the percent attributable to residential and non-residential development (see Table 3.4) to find the fee-eligible costs for residential and non-residential development. This was then divided by the number of total trips shown in Table 3.7 to determine the fee per trip for residential and non-residential developments (see Table 3.8). Lastly, the fee per trip end for residential

units was multiplied by the daily trip generation rate of 9.43 to determine the fee per DUE (dwelling unit equivalent) for residential uses.

#### Table 3.8Fee per Trip and DUE

| Item                                  | Formula                      | Total RTMF-<br>Eligible<br>Project Costs | Attributable to<br>Residential<br>Development | Attributable to<br>Non-Residential<br>Development |
|---------------------------------------|------------------------------|--|---|---|
| Total Project Costs                   | (A)                          | \$17,814,415                             |   |   |
| RTMF Fund Balance (Amount Collected)* | (B)                          | \$91,702                                 |   |   |
| Remaining Cost for Fee Collection     | (C)                          | \$17,722,712                             |   |   |
| % Attributable by Category            | (D)                          |  | 86%   | 14%   |
| Amount Attributable by Category       | (E)=(C)*(D)                  |  | \$15,262,990                                  | \$2,459,722                                       |
| Trip Ends                             | (F)                          |  | 29,568  | 41,555  |
| RTMF per Trip End                     | (G)=(E)/(F)                  |  | \$516.20                                      | \$59.19   |
| Fee per DUE                           | (H)=(G <sub>RES</sub> )*9.43 | \$4,867.76                               |   |   |

Note: 9.43 is the trip rate equivalent to a single family detached housing unit

### 3.8 Recommended Fee by Land Use Category

The final step is to compute the fee to be charged for each unit of new development. For residential uses, this is done by multiplying the DUE rates for each dwelling size shown in Table 3.6 by the fee per DUE shown in Table 3.8. For non-residential uses, the fee for each unit type is calculated by multiplying the trip generation rates from Table 2.1 by the fee per trip from Table 3.8. The residential fee results are shown in Table 3.9, and the non-residential fee results are shown in

| Typical Use                   | ITE Code &<br>Unit | Current Fee per<br>Trip              | Current Trip-<br>Gen Rate      | Current Fee per<br>Unit                      | Dwelling Unit<br>Equivalents<br>(DUE)     | Proposed<br>Cost per<br>DUE      | Proposed<br>Fee per Unit     | %<br>Change in Fee    |
|-------------------------------|--------------------|--------------------------------------|--------------------------------|--|---|----------------------------------|------------------------------|-----------------------|
|                               |                    | (A)                                  | (B)                            | (C)=(A)*(B)                                  | (D)                                       | (E)                              | (F)=(D)*(E)                  | (G)=(F)/(C)-1         |
| Residential (Dwelling Unit)   |                    |                                      |                                |  |   |                                  |                              |                       |
| Single Family                 | 210                |                                      |                                |  |   |                                  |                              |                       |
| Small (<1,500 sq.ft.)         | Dwelling Unit      | \$485                                | 9.52                           | \$4,621                                      | 0.83                                      | \$4,868                          | \$4,030                      | -13%                  |
| Medium (1,500-2,500 sq.ft.)   | Dwelling Unit      | \$485                                | 9.52                           | \$4,621                                      | 1.00                                      | \$4,868                          | \$4,868                      | 5%                    |
| Large (<2,500 sq.ft.)         | Dwelling Unit      | \$485                                | 9.52                           | \$4,621                                      | 1.11                                      | \$4,868                          | \$5,396                      | 17%                   |
| Multi-Family                  | 251                |                                      |                                |  |   |                                  |                              |                       |
| Small (<1,500 sq.ft.)         | Dwelling Unit      | \$485                                | 6.59                           | \$3,199                                      | 0.48                                      | \$2,344                          | \$1,128                      | -65%                  |
| Medium (1,500-2,500 sq.ft.)   | Dwelling Unit      | \$485                                | 6.59                           | \$3,199                                      | 0.58                                      | \$2,344                          | \$1,363                      | -57%                  |
| Large (<2,500 sq.ft.)         | Dwelling Unit      | \$485                                | 6.59                           | \$3,199                                      | 0.64                                      | \$2,344                          | \$1,511                      | -53%                  |
| Mobile Home                   | 220                |                                      |                                |  |   |                                  |                              |                       |
| Small (<1,500 sq.ft.)         | Dwelling Unit      | \$485                                | 4.99                           | \$2,422                                      | 0.76                                      | \$3,675                          | \$2,775                      | 15%                   |
| Medium (1,500-2,500 sq.ft.)   | Dwelling Unit      | \$485                                | 4.99                           | \$2,422                                      | 0.91                                      | \$3,675                          | \$3,352                      | 38%                   |
| Large (<2,500 sq.ft.)         | Dwelling Unit      | \$485                                | 4.99                           | \$2,422                                      | 1.01                                      | \$3,675                          | \$3,716                      | 53%                   |
| Senior Housing                | 252                |                                      |                                |  |   |                                  |                              |                       |
| Small (<1,500 sq.ft.)         | Dwelling Unit      | \$485                                | 3.56                           | \$1,728                                      | 0.40                                      | \$1,949                          | \$780                        | -55%                  |
| Medium (1,500-2,500 sq.ft.)   | Dwelling Unit      | \$485                                | 3.56                           | \$1,728                                      | 0.48                                      | \$1,949                          | \$942                        | -45%                  |
| Large (<2,500 sq.ft.)         | Dwelling Unit      | \$485                                | 3.56                           | \$1,728                                      | 0.54                                      | \$1,949                          | \$1,045                      | -40%                  |
| Accessory Dwelling Unit (ADU) |                    |                                      |                                |  |   |                                  |                              |                       |
| < 750 sq.ft.                  |                    |                                      |                                | Exe  | mpt                                       |                                  |                              |                       |
| > 750 sq.ft.                  | Fee is based       | l on the ratio of its<br>was being b | floor area in reuilt today (RT | elation to the prima<br>MF (F) for primary u | ary unit, multiplie<br>unit) x (ADU sa ft | d by the fee th<br>divided by pr | hat the primary unit so ft.) | init would pay, if it |

Table 3.10. These tables also compare the new fees with the current fees. The key points from this comparison are:

• A small increase is recommended for the fees for medium and large single-family homes.

- Due to the change in the fee calculation methodology to consider unit size by types for residential uses, the resulting fee is reduced for smaller-sized single-family units, and for all multi-family, mobile home, and senior housing unit types.
- A larger reduction in fees is recommended for every category of non-residential land use. The decrease is
  primarily a function of the change in traffic growth of non-residential uses, with less non-residential
  development expected, and more trips attributable to residential uses.

Policymakers are sometimes concerned about the effects that a fee program might have in terms of making their county less competitive than peer counties in attracting development. There are two aspects to this, namely:

People and businesses moving to foothills counties expect to find little or no traffic congestion. To the extent
that the RTMF provides funding for needed capacity improvements it improves the competitiveness of Nevada
County.

Impact fees, like any other cost, inhibit development to some extent. However, this does not mean that they necessarily reduce competitiveness. As can be seen in Figure 3.4, the recommended RTMF fees would be in the low end among peer counties and so are unlikely to deter development. The recommended RTMF fees for non-residential development would be quite low compared to peer counties (see Figure 3.5).

| Typical Use                   | ITE Code &<br>Unit | Current Fee per<br>Trip   | Current Trip-<br>Gen Rate | Current Fee per<br>Unit | Dwelling Unit<br>Equivalents<br>(DUE) | Proposed<br>Cost per<br>DUE | Proposed<br>Fee per Unit | %<br>Change in Fee |  |
|-------------------------------|--------------------|---|---------------------------|-------------------------|---------------------------------------|-----------------------------|--------------------------|--------------------|--|
|                               |                    | (A)   | (B)                       | (C)=(A)*(B)             | (D)                                   | (E)                         | (F)=(D)*(E)              | (G)=(F)/(C)-1      |  |
| Residential (Dwelling Unit)   |                    |   |                           |                         |                                       |                             |                          |                    |  |
| Single Family                 | 210                |   |                           |                         |                                       |                             |                          |                    |  |
| Small (<1,500 sq.ft.)         | Dwelling Unit      | \$485   | 9.52                      | \$4,621                 | 0.83                                  | \$4,868                     | \$4,030                  | -13%               |  |
| Medium (1,500-2,500 sq.ft.)   | Dwelling Unit      | \$485   | 9.52                      | \$4,621                 | 1.00                                  | \$4,868                     | \$4,868                  | 5%                 |  |
| Large (<2,500 sq.ft.)         | Dwelling Unit      | \$485   | 9.52                      | \$4,621                 | 1.11                                  | \$4,868                     | \$5,396                  | 17%                |  |
| Multi-Family                  | 251                |   |                           |                         |                                       |                             |                          |                    |  |
| Small (<1,500 sq.ft.)         | Dwelling Unit      | \$485   | 6.59                      | \$3,199                 | 0.48                                  | \$2,344                     | \$1,128                  | -65%               |  |
| Medium (1,500-2,500 sq.ft.)   | Dwelling Unit      | \$485   | 6.59                      | \$3,199                 | 0.58                                  | \$2,344                     | \$1,363                  | -57%               |  |
| Large (<2,500 sq.ft.)         | Dwelling Unit      | \$485   | 6.59                      | \$3,199                 | 0.64                                  | \$2,344                     | \$1,511                  | -53%               |  |
| Mobile Home                   | 220                |   |                           |                         |                                       |                             |                          |                    |  |
| Small (<1,500 sq.ft.)         | Dwelling Unit      | \$485   | 4.99                      | \$2,422                 | 0.76                                  | \$3,675                     | \$2,775                  | 15%                |  |
| Medium (1,500-2,500 sq.ft.)   | Dwelling Unit      | \$485   | 4.99                      | \$2,422                 | 0.91                                  | \$3,675                     | \$3,352                  | 38%                |  |
| Large (<2,500 sq.ft.)         | Dwelling Unit      | \$485   | 4.99                      | \$2,422                 | 1.01                                  | \$3,675                     | \$3,716                  | 53%                |  |
| Senior Housing                | 252                |   |                           |                         |                                       |                             |                          |                    |  |
| Small (<1,500 sq.ft.)         | Dwelling Unit      | \$485   | 3.56                      | \$1,728                 | 0.40                                  | \$1,949                     | \$780                    | -55%               |  |
| Medium (1,500-2,500 sq.ft.)   | Dwelling Unit      | \$485   | 3.56                      | \$1,728                 | 0.48                                  | \$1,949                     | \$942                    | -45%               |  |
| Large (<2,500 sq.ft.)         | Dwelling Unit      | \$485   | 3.56                      | \$1,728                 | 0.54                                  | \$1,949                     | \$1,045                  | -40%               |  |
| Accessory Dwelling Unit (ADU) |                    |   |                           |                         |                                       |                             |                          |                    |  |
| < 750 sq.ft.                  |                    |   |                           | Exe                     | mpt                                   |                             |                          |                    |  |
| > 750 sq.ft.                  | Fee is based       | ee is based on the ratio of its floor area in relation to the primary unit, multiplied by the fee that the primary unit would pay, if it<br>was being built today. (RTME (E) for primary unit) x (ADU so ft divided by primary unit so ft ) |                           |                         |                                       |                             |                          |                    |  |

 Table 3.9
 Revised Fee Levels – Residential Uses

#### Table 3.10 Revised Fee Levels – Non-Residential Uses

|     | Typical Use             | Unit    | Current Fee per<br>Trip | Current Trip-<br>Gen Rate | Current Fee | Proposed Fee<br>per Trip | Updated<br>Trip-Gen<br>Rate | Proposed<br>Fee | %<br>Change   |
|-----|-------------------------|---------|-------------------------|---------------------------|-------------|--------------------------|-----------------------------|-----------------|---------------|
|     |                         |         | (A)                     | (B)                       | (C)=(A)*(B) | (D)                      | (E)                         | (F)=(D)*(E)     | (G)=(F)/(C)-1 |
| Nor | -Residential            |         |                         |                           |             |                          |                             |                 |               |
|     | Office                  | KSF     | \$86                    | 12.05                     | \$1,033     | \$59                     | 12.76                       | \$755           | -27%          |
|     | Industrial              | KSF     | \$86                    | 5.33                      | \$457       | \$59                     | 4.75                        | \$281           | -38%          |
|     | Warehouse               | KSF     | \$86                    | 3.56                      | \$305       | \$59                     | 3.56                        | \$211           | -31%          |
|     | Retail/Service - Low    | KSF     | \$86                    | 23.88                     | \$2,047     | \$59                     | 21.63                       | \$1,280         | -37%          |
|     | Retail/Service - Medium | KSF     | \$86                    | 51.02                     | \$4,373     | \$59                     | 50.52                       | \$2,990         | -32%          |
|     | Retail/Service - High   | KSF     | \$86                    | 90.46                     | \$7,754     | \$59                     | 91.96                       | \$5,443         | -30%          |
| *   | Lodging                 | Room    | \$86                    | 6.45                      | \$553       | \$59                     | 4.21                        | \$249           | -55%          |
| **  | Public & Quasi-Public   | KSF     |                         |                           | Exempt      |                          |                             | Exempt          | N/A           |
| **  | School K-8th Grade      | Student |                         |                           | Exempt      |                          |                             | Exempt          | N/A           |
| **  | School 9-12th Grade     | Student |                         |                           | Exempt      |                          |                             | Exempt          | N/A           |
| **  | Public College          | Student |                         |                           | Exempt      |                          |                             | Exempt          | N/A           |

\* The unit of analysis for this category is "rooms". Trip-gen rate shown is the average for the hotel and motel categories

\* \* Public-sector land uses are generally exempt from local fees





Figure 3.5 Non-Residential Impact Fee Comparison - Foothills Counties



### 3.9 Revenues Raised by the RTMF Program

Based on the number of new units of development shown in Table 2.2 and the recommended fee schedule shown in Table 3.9 and

| Typical Use                   | ITE Code &<br>Unit | Current Fee per<br>Trip  | Current Trip-<br>Gen Rate | Current Fee per<br>Unit | Dwelling Unit<br>Equivalents<br>(DUE) | Proposed<br>Cost per<br>DUE | Proposed<br>Fee per Unit | %<br>Change in Fee |  |  |  |
|-------------------------------|--------------------|--|---------------------------|-------------------------|---------------------------------------|-----------------------------|--------------------------|--------------------|--|--|--|
|                               |                    | (A)  | (B)                       | (C)=(A)*(B)             | (D)                                   | (E)                         | (F)=(D)*(E)              | (G)=(F)/(C)-1      |  |  |  |
| Residential (Dwelling Unit)   |                    |  |                           |                         |                                       |                             |                          |                    |  |  |  |
| Single Family                 | 210                |  |                           |                         |                                       |                             |                          |                    |  |  |  |
| Small (<1,500 sq.ft.)         | Dwelling Unit      | \$485  | 9.52                      | \$4,621                 | 0.83                                  | \$4,868                     | \$4,030                  | -13%               |  |  |  |
| Medium (1,500-2,500 sq.ft.)   | Dwelling Unit      | \$485  | 9.52                      | \$4,621                 | 1.00                                  | \$4,868                     | \$4,868                  | 5%                 |  |  |  |
| Large (<2,500 sq.ft.)         | Dwelling Unit      | \$485  | 9.52                      | \$4,621                 | 1.11                                  | \$4,868                     | \$5,396                  | 17%                |  |  |  |
| Multi-Family                  | 251                |  |                           |                         |                                       |                             |                          |                    |  |  |  |
| Small (<1,500 sq.ft.)         | Dwelling Unit      | \$485  | 6.59                      | \$3,199                 | 0.48                                  | \$2,344                     | \$1,128                  | -65%               |  |  |  |
| Medium (1,500-2,500 sq.ft.)   | Dwelling Unit      | \$485  | 6.59                      | \$3,199                 | 0.58                                  | \$2,344                     | \$1,363                  | -57%               |  |  |  |
| Large (<2,500 sq.ft.)         | Dwelling Unit      | \$485  | 6.59                      | \$3,199                 | 0.64                                  | \$2,344                     | \$1,511                  | -53%               |  |  |  |
| Mobile Home                   | 220                |  |                           |                         |                                       |                             |                          |                    |  |  |  |
| Small (<1,500 sq.ft.)         | Dwelling Unit      | \$485  | 4.99                      | \$2,422                 | 0.76                                  | \$3,675                     | \$2,775                  | 15%                |  |  |  |
| Medium (1,500-2,500 sq.ft.)   | Dwelling Unit      | \$485  | 4.99                      | \$2,422                 | 0.91                                  | \$3,675                     | \$3,352                  | 38%                |  |  |  |
| Large (<2,500 sq.ft.)         | Dwelling Unit      | \$485  | 4.99                      | \$2,422                 | 1.01                                  | \$3,675                     | \$3,716                  | 53%                |  |  |  |
| Senior Housing                | 252                |  |                           |                         |                                       |                             |                          |                    |  |  |  |
| Small (<1,500 sq.ft.)         | Dwelling Unit      | \$485  | 3.56                      | \$1,728                 | 0.40                                  | \$1,949                     | \$780                    | -55%               |  |  |  |
| Medium (1,500-2,500 sq.ft.)   | Dwelling Unit      | \$485  | 3.56                      | \$1,728                 | 0.48                                  | \$1,949                     | \$942                    | -45%               |  |  |  |
| Large (<2,500 sq.ft.)         | Dwelling Unit      | \$485  | 3.56                      | \$1,728                 | 0.54                                  | \$1,949                     | \$1,045                  | -40%               |  |  |  |
| Accessory Dwelling Unit (ADU) |                    |  |                           |                         |                                       |                             |                          |                    |  |  |  |
| < 750 sq.ft.                  |                    |  |                           | Exe                     | mpt                                   |                             |                          |                    |  |  |  |
| > 750 sq.ft.                  | Fee is based       | ee is based on the ratio of its floor area in relation to the primary unit, multiplied by the fee that the primary unit would pay, if it was being built today. (RTME (E) for primary unit) x (ADLI so ft divided by primary unit so ft) |                           |                         |                                       |                             |                          |                    |  |  |  |

Table 3.10, the total fee revenue expected to be generated by the RTMF in the next 20 years is \$17.6 million, as shown in Table 3.11. Note that this is slightly (1%) less than the \$17.7 million in project costs attributable to new development shown in Row C of Table 3.8. This is because public-sector developments are exempt from the RTMF, and their share of the costs cannot legally be transferred to other development since the latter are responsible only for mitigating their own impacts.

#### Table 3.11Forecast of RTMF Revenues

| Land Use Category           | Unit      | Proposed<br>RTMF/<br>Trip End | Trip-Gen<br>Rate | RTMF/<br>Unit | Expected # of<br>New Units | Expected<br>Revenues | Percent of<br>Revenues |
|-----------------------------|-----------|-------------------------------|------------------|---------------|----------------------------|----------------------|------------------------|
| Residential                 |           |                               |                  |               |                            |                      |                        |
| Single Family               | DU        | \$516.20                      | 9.43             | \$4,868       | 2,585                      |                      |                        |
| Small (<1,500 sq.ft.)       | DU        |                               | 83%              | \$4,030       | 29%                        | \$3,020,908          | 17.2%                  |
| Medium (1,500-2,500 sq.ft.) | DU        |                               | 100%             | \$4,868       | 46%                        | \$5,788,256          | 33.0%                  |
| Large (<2,500 sq.ft.)       | DU        |                               | 111%             | \$5,396       | 25%                        | \$3,487,458          | 19.9%                  |
| Multi-Family                | DU        | \$516.20                      | 4.54             | \$2,344       | 1,581                      |                      |                        |
| Small (<1,500 sq.ft.)       | DU        |                               | 48%              | \$1,128       | 100%                       | \$1,783,814          | 10.2%                  |
| Medium (1,500-2,500 sq.ft.) | DU        |                               | 58%              | \$1,363       | 0%                         | \$0                  | 0.0%                   |
| Large (<2,500 sq.ft.)       | DU        |                               | 64%              | \$1,511       | 0%                         | \$0                  | 0.0%                   |
| Mobile Home                 | DU        | \$516.20                      | 7.12             | \$3,675       | 251                        |                      |                        |
| Small (<1,500 sq.ft.)       | DU        |                               | 76%              | \$2,775       | 63%                        | \$438,814            | 2.5%                   |
| Medium (1,500-2,500 sq.ft.) | DU        |                               | 91%              | \$3,352       | 36%                        | \$302,895            | 1.7%                   |
| Large (<2,500 sq.ft.)       | DU        |                               | 101%             | \$3,716       | 1%                         | \$9,328              | 0.1%                   |
| Senior Housing              | DU        | \$516.20                      | 3.78             | \$1,949       | 460                        |                      |                        |
| Small (<1,500 sq.ft.)       | DU        |                               | 40%              | \$780         | 29%                        | \$104,063            | 0.6%                   |
| Medium (1,500-2,500 sq.ft.) | DU        |                               | 48%              | \$942         | 46%                        | \$199,391            | 1.1%                   |
| Large (<2,500 sq.ft.)       | DU        |                               | 54%              | \$1,045       | 25%                        | \$120,134            | 0.7%                   |
|                             |           |                               |                  | Re            | esidential Total >         | \$15,255,061         | 86.9%                  |
| Non-Residential             |           |                               |                  |               |                            |                      |                        |
| Office                      | KSF       | \$59.19                       | 12.76            | \$755         | 569                        | \$429,588            | 2.4%                   |
| Light Industry              | KSF       | \$59.19                       | 4.75             | \$281         | 2,162                      | \$607,868            | 3.5%                   |
| Warehouse                   | KSF       | \$59.19                       | 3.56             | \$211         | 73                         | \$15,383             | 0.1%                   |
| Retail/Service - Low        | KSF       | \$59.19                       | 21.63            | \$1,280       | 255                        | \$326,404            | 1.9%                   |
| Retail/Service - Medium     | KSF       | \$59.19                       | 50.52            | \$2,990       | 204                        | \$610,033            | 3.5%                   |
| Retail/Service - High       | KSF       | \$59.19                       | 91.96            | \$5,443       | 51                         | \$277,606            | 1.6%                   |
| Lodging                     | Rooms     | \$59.19                       | 4.21             | \$249         | 97                         | \$24,172             | 0.1%                   |
| Public & Quasi-Public       | KSF       | Exempt                        | 22.59            | \$0           | 28                         | \$0                  | 0.0%                   |
| School K-8th Grade          | Students  | Exempt                        | 2.25             | \$0           | 499                        | \$0                  | 0.0%                   |
| School 9-12th Grade         | Students  | Exempt                        | 1.98             | \$0           | 298                        | \$0                  | 0.0%                   |
| Public College              | Students  | Exempt                        | 1.15             | \$0           | 439                        | \$0                  | 0.0%                   |
|                             |           | -                             |                  | Non-Re        | esidential Total >         | \$2,291,054          | 13.1%                  |
|                             |           |                               |                  | C             | Combined Total >           | \$17,546,114         |                        |
|                             | As a Perc | entage of Proje               | ct Costs Attribu | utable to Nev | v Development >            | 99%                  |                        |

Approximately 82% of the forecast revenue will come from single and multi-family housing. It is therefore crucial to the viability of the program that fees on those two categories of development is not further reduced.

### 3.10 Results in Terms of Project Funding

The revenue forecast computed in the previous section can be compared to the project costs shown in Table 3.3. Prorating the \$17.6M in RTMF revenue over the \$21.7M in eligible project costs results in the allocations by project shown in Table 3.12.

Table 3.12 shows that \$2.6M in additional funding will be needed over the course of the next 20 years to fully fund the project list. Section 2.4 of this report showed that if future state funding is similar to previous funding, then approximately \$158M will become available over the 20-year period (see Table 2.3). We therefore believe that there is a reasonable expectation that the projects identified for RTMF funding can be fully funded within the planning time horizon.

| Project ID                  |                     |                                |                            | Updated          | RTMF                 | Funds                         | Funds from Other Sources |                   |  |
|-----------------------------|---------------------|--------------------------------|----------------------------|------------------|----------------------|-------------------------------|--------------------------|-------------------|--|
| (from<br>Previous<br>Study) | Project ID<br>(New) | Facility                       | Segment                    | Cost<br>Estimate | Already<br>Collected | Fees on Future<br>Development | Already<br>Secured       | Future<br>Funding |  |
| 1                           | 1                   | SR-49 Interchange              | Dorsey Drive               | \$24,000,000     | \$2,729,732          | \$1,884,659                   | \$19,385,609             | \$0               |  |
| 9                           | 2                   | E.Main St                      | @ Bennett St/Richardson St | \$1,500,000      | \$1,500,000          | \$0                           | \$0                      | \$0               |  |
| *                           | 3                   | SR-49 SB                       | PM 13.1 to PM 11.0 (SB)    | \$21,000,000     | \$0                  | \$2,574,092                   | \$0                      | \$18,425,908      |  |
| 4                           | 4                   | SR-49 NB & SB Ramps            | @ McKnight Way             | \$9,663,269      | \$0                  | \$7,586,908                   | \$0                      | \$2,076,361       |  |
| 5                           | 5                   | SR 20 EB Ramps                 | @ McCourtney Rd            | \$2,083,969      | \$0                  | \$1,303,945                   | \$0                      | \$780,025         |  |
| 6                           | 6                   | SR 20/49 NB Ramps              | @ Idaho Maryland Rd        | \$1,847,696      | \$0                  | \$1,829,285                   | \$0                      | \$18,411          |  |
| 8                           | 7                   | SR 20/SR 49                    | @ Uren St                  | \$1,457,566      | \$0                  | \$0                           | \$0                      | \$1,457,566       |  |
| *                           | 8                   | Brunswick Road                 | @ SR 174/Colfax Highway    | \$1,384,179      | \$0                  | \$1,370,386                   | \$0                      | \$13,793          |  |
| 11                          | 9                   | SR-49                          | @ Coyote St                | \$468,604        | \$0                  | \$197,945                     | \$0                      | \$270,659         |  |
|                             | 10                  | Admin Costs and 5-year reviews |                            | \$349,302        | \$0                  | \$345,822                     | \$0                      | \$3,481           |  |
|                             |                     | Total                          |                            | \$63,754,585     | \$4,229,732          | \$17,093,042                  | \$19,385,609             | \$23,046,202      |  |
|                             |                     | As a percent of total cos      | ts for needed projects     |                  | 6.6%                 | 26.8%                         | 30.4%                    | 36.1%             |  |

#### Table 3.12 Proposed Allocation of RTMF Revenues to Projects

\* indicates a new project not in the previous project list but identified in the current study as a deficiency that is at least partially attributable to new development

# 4. Mitigation Fee Act Findings

The Mitigation Fee Act, as set forth in the California Government Code Sections 66000 through 66008, establishes the framework for mitigation fees in the State of California. The Act requires agencies to make certain findings with respect to a proposed fee. These are described in the sections below.

### 4.1 Purpose of the Fee

#### Identify the purpose of the fee

The purpose of the RTMF is to establish a uniform, cooperative program to mitigate the cumulative indirect regional impacts of future developments on traffic conditions on regional roadways in Nevada County. The fees will help fund improvements needed to maintain the target level of service in the face of the higher traffic volumes brought on by new developments.

#### 4.2 Use of Fee Revenues

#### Identify the use to which the fees will be put. If the use is financing facilities, the facilities shall be identified

The list of projects to receive RTMF funding is shown in Table 3.12. Based on input from the member agencies and the public, we recommend that the regional fee should be used only for roads of regional significance. This is consistent with the fact that cumulative indirect impacts tend to be on regional facilities and so should be addressed with a regional fee program; Grass Valley and the County have complementary programs to mitigate more local impacts, and direct impacts are covered through exactions. Only projects involving state facilities were considered "regional" under this policy and can receive RTMF funding.

### 4.3 Use/Type of Development Relationship

## Determine the reasonable relationship between the fees' use and the type of development project on which the fees are imposed

To determine the "use" relationship, the development being assessed an impact fee must be reasonably shown to derive some use or benefit from the facility being built using the fee. In the case of the RTMF the projects to be funded were selected based on the fact that they performed a regional (as opposed to local) function and that the need for the project was at least partially attributable to new development. The growth in regional VMT and the increases in congestion at project sites (see Table 3.2) are evidence that new developments contribute towards the need for roadway improvements.

The fact that the projects that will be funded by the RTMF are high-priority regional roads means that all of the county's new residents and businesses will benefit in important ways from the maintenance of a reasonable level of service. Most drivers in the new developments can be expected to use these roads regularly, and those that do not will nevertheless benefit because good traffic conditions on the RTMF-funded roads will keep drivers from diverting to other roads and causing congestion in other parts of the county. Even residents or workers in the new developments who do not drive at all will benefit from access to goods and services made possible in part by the serviceability of the regional road network.

### 4.4 Need/Type of Development Relationship

#### Determine the reasonable relationship between the need for the public facilities and the types of development on which the fees are imposed

To determine the "need" relationship the facilities to be financed must be shown to be needed at least in part because of the new development. This was determined by analyzing the forecast traffic demand with the expected degree of new development and comparing that with the demand without new development. Projects were analyzed individually and the degree to which the need for the project was attributable to new development varied from project to project. This analysis is described in an earlier chapter of this report.

#### 4.5 **Proportionality Relationship**

## Determine how there is a reasonable relationship between the fee amount and the cost of the facilities or portion of the facilities attributable to the development on which the fee is imposed

The "proportionality" relationship requires that there be rough proportionality between the fee charged to each type of development and the cost of the facility being financed. In the case of the RTMF the differences in the traffic generated by different types of development were factored into the fee to be charged for each type, as is described earlier in this report. Within each land use category, the size of the project, i.e., the number of dwelling units constructed or size of the building, is accounted for in assessing the fee. This ensures that projects that generate a lot of traffic and therefore have a greater traffic impact will pay more than other projects that have less impacts.



ghd.com

