

Western Riverside Council of Governments Planning Directors Committee

AGENDA

Thursday, August 8, 2024 9:30 AM

Western Riverside Council of Governments 3390 University Avenue, Suite 200 Riverside, CA 92501

Remote Meeting Locations:

Corona City Hall 400 S. Vicentia Avenue Planning & Development Conference Room Corona, CA 92882

> County of Riverside 4080 Lemon Street, 12th Floor Riverside, CA 92501

March Joint Powers Authority 14285 Meridian Parkway, Suite 140 Riverside, CA 92518

> City of Perris City Hall 101 N D Street Perris, CA 92570

Committee members are asked to attend this meeting in person unless remote accommodations have previously been requested and noted on the agenda. The below Zoom link is provided for the convenience of members of

the public, presenters, and support staff.

Public Zoom Link

Meeting ID: 841 0895 7783 Passcode: 365715 Dial in: 669 444 9171 U.S.

In compliance with the Americans with Disabilities Act and Government Code Section 54954.2, if special assistance is needed to participate in the Planning Directors Committee meeting, please contact WRCOG at (951) 405-6706. Notification of at least 48 hours prior to meeting time will assist staff in assuring that reasonable arrangements can be made to provide accessibility at the meeting. In compliance with Government Code Section 54957.5, agenda materials distributed within 72 hours prior to the meeting which are public records relating to an open session agenda item will be available for inspection by members of the public prior to the meeting at 3390 University Avenue, Suite 200, Riverside, CA, 92501.

In addition to commenting at the Committee meeting, members of the public may also submit written comments before or during the meeting, prior to the close of public comment to lfelix@wrcog.us.

Any member of the public requiring a reasonable accommodation to participate in this meeting in light of this announcement shall contact Lucy Felix at least 72 hours prior to the meeting at (951) 405-6706 or left.requests will be accommodated to the extent feasible.

The Committee may take any action on any item listed on the agenda, regardless of the Requested Action.

- 1. CALL TO ORDER (Joe Perez, Chair)
- 2. PLEDGE OF ALLEGIANCE
- 3. ROLL CALL
- 4. SELECTION OF PLANNING DIRECTORS COMMITTEE CHAIR, VICE-CHAIR, AND 2ND VICE-CHAIR POSITIONS FOR FISCAL YEAR 2024/2025
 - A. Leadership Selection for Fiscal Year 2024/2025 and Recognition of Outgoing Chair

Requested Action(s):

1. Select a Planning Directors Committee Chair, Vice-Chair, and 2nd Vice-Chair for Fiscal Year 2024/2025.

5. PUBLIC COMMENT

At this time members of the public can address the Committee regarding any items within the subject matter jurisdiction of the Committee that are not separately listed on this agenda. Members of the public will have an opportunity to speak on agendized items at the time the item is called for discussion. No action may be taken on items not listed on the agenda unless authorized by law. Whenever possible, lengthy testimony should be presented to the Committee in writing and only pertinent points presented orally.

6. CONSENT CALENDAR

All items listed under the Consent Calendar are considered to be routine and may be enacted by one motion. Prior to the motion to consider any action by the Committee, any public comments on any of the Consent Items will be heard. There will be no separate action unless members of the Committee request specific items be removed from the Consent Calendar.

- A. Action Minutes from the June 13, 2024, Planning Directors Committee Meeting
 - Requested Action(s):
- 1. Approve the Action Minutes from the June 13, 2024,

Planning Directors Committee meeting.

B. REAP 1.0 Final Report

Requested Action(s): 1. Receive and file.

7. REPORTS / DISCUSSION

Members of the public will have an opportunity to speak on agendized items at the time the item is called for discussion.

A. Senate Bill 4 - Affordable Housing on Faith Based Lands

Requested Action(s): 1. Receive and file.

B. Overview of ULI Technical Assistance Panels

Requested Action(s): 1. Receive and file.

C. Provide Overview of the TUMF Nexus Study - Final Draft

Requested Action(s): 1. Receive and file.

D. I-REN Codes & Standards Introduction

Requested Action(s): 1. Receive and file.

8. REPORT FROM THE DEPUTY EXECUTIVE DIRECTOR

Chris Gray

9. ITEMS FOR FUTURE AGENDAS

Members are invited to suggest additional items to be brought forward for discussion at future Committee meetings.

10. GENERAL ANNOUNCEMENTS

Members are invited to announce items / activities which may be of general interest to the Committee.

11. NEXT MEETING

The next Planning Directors Committee meeting is scheduled for Thursday, October 10, 2024, at 9:30 a.m., in WRCOG's office at 3390 University Avenue, Suite 200, Riverside.

12. ADJOURNMENT



Western Riverside Council of Governments Planning Directors Committee

Staff Report

Subject: Leadership Selection for Fiscal Year 2024/2025 and Recognition of Outgoing Chair

Contact: Chris Gray, Deputy Executive Director, cgray@wrcog.us, (951) 405-6710

Date: August 8, 2024

Recommended Action(s):

1. Select a Planning Directors Committee Chair, Vice-Chair, and 2nd Vice-Chair for Fiscal Year 2024/2025.

Summary:

The Chair, Vice-Chair, and 2nd Vice-Chair all serve on an annual basis, with a term that runs through the fiscal year (July 1 to June 30). This meeting is the first one for this fiscal year, so the Committee must select a Planning Directors Committee Chair, Vice-Chair, and 2nd Vice-Chair for Fiscal Year 2024/2025.

Purpose / WRCOG 2022-2027 Strategic Plan Goal:

The purpose of this item to provide information regarding leadership positions for Fiscal Year 2024/2025. This item supports WRCOG's 2022-2027 Strategic Plan Goal #4 (Communicate proactively about the role and activities of the Council of Governments).

Discussion:

WRCOG would like to recognize outgoing Chair Joe Perez, City of Jurupa Valley, for the efforts of leading the Planning Directors Committee meetings during the previous fiscal year. Staff appreciates the hard work and dedication required to lead the meetings.

WRCOG's Committee leadership positions are selected at the start of each fiscal year. The leadership for the Executive Committee for Fiscal Year 2024/20224 is as follows:

Chair: Rita Rogers, City of Perris

Vice-Chair: Brenda Dennstedt, Western Municipal Water District

2nd Vice-Chair: Jacque Casillas, City of Corona

Historically, the Committee positions have coincided with those of the Executive Committee, although there are no requirements for this pattern stipulated in WRCOG's JPA or Bylaws.

Prior Action(s):

Financial Summary:
The actions of this item has no fiscal impact.
Attachment(s):

None.

None.

Planning Directors Committee

Action Minutes

1. CALL TO ORDER

The meeting of the Planning Directors Committee meeting was called to order by Chair Joe Perez at 9:30 a.m. on April 11, 2024, in WRCOG's office.

2. PLEDGE OF ALLEGIANCE

Vice-Chair Phung led the Committee members and guests in the Pledge of Allegiance.

3. ROLL CALL

- · City of Beaumont Carole Kendrick
- · City of Calimesa Kelly Lucia
- · City of Eastvale David Murray
- · City of Hemet Monique Alaniz-Flejter
- City of Jurupa Valley Joe Perez
- City of Lake Elsinore Damaris Abraham
- City of Moreno Valley Sean Kelleher
- City of Murrieta David Chantarangsu
- City of Norco Alma Robles
- City of Perris Kenneth Phung
- · City of Riverside Judy Eguez
- · City of San Jacinto Kevin White
- County of Riverside John Hildebrand
- March JPA Jeffrey Smith
- Riverside Transit Agency (RTA) Jennifer Nguyen

Absent:

- · City of Banning
- · City of Canyon Lake
- · City of Corona
- · City of Menifee
- City of Temecula
- · City of Wildomar
- Western Water

4. PUBLIC COMMENTS

There were no public comments.

^{*} Arrived after Roll Call

5. CONSENT CALENDAR

RESULT:	APPROVED AS RECOMMENDED
MOVER:	Perris
SECONDER:	Murrieta
ATES:	Beaumont, Calimesa, Eastvale, Jurupa Valley, Lake Elsinore, Moreno Valley, Murrieta, Norco, Perris, Riverside, San Jacinto, County of Riverside, March JPA, RTA
ABSTAIN:	Hemet

A. Action Minutes from the February 8, 2024, Planning Directors Committee Meeting

Action:

1. Approved the Action Minutes from the February 8, 2024, Planning Directors Committee meeting.

B. Approval of Planning Directors Committee Meeting Schedule for 2025

Action:

1. Approved the schedule of Planning Directors Committee meetings for 2025.

6. REPORTS / DISCUSSION

A. SCAG Highways to Boulevards Regional Study

Action:

1. Received and filed.

B. Housing Topics Roundtable

Action:

1. Received and filed

7. REPORT FROM THE DEPUTY EXECUTIVE DIRECTOR

Chris Gray, Deputy Executive Director, reminded the Committee that the WRCOG General Assembly is only one week away; it will take place on June 20, 2024, at Pechanga Resort Casino, with Sean McVay as the keynote speaker. Committee members are encouraged to register for the event if they have not yet done so. Mr. Gray added that the August meeting agenda will include more housing topics, and asked the committee to bring forth legislation issues their jurisdiction is looking at. Additionally, staff has begun to study development patterns in southern California and will present its findings at a future meeting.

8. ITEMS FOR FUTURE AGENDAS

Committee member David Chantarangsu asked about the new TUMF increase schedule, to which Mr. Gray responded that WRCOG received eight to ten comments and one letter during the open comment period. Staff will review and respond to those comments, and will present the new schedule for approval

by the Committee at the August meeting.

Committee member Chatarangsu also asked about the high-speed, next-generation rail system, as there are plans to have two stops in the County of Riverside: one in the City of Corona, and one in the City of Murrieta. Staff will reach out to RCTC for information to be presented at a future meeting.

9. GENERAL ANNOUNCEMENTS

There were no general announcements.

10. NEXT MEETING

The next Planning Directors Committee meeting is scheduled for Thursday, June 13, 2024, at 9:30 a.m., in WRCOG's office.

11. ADJOURNMENT

The meeting was adjourned at 10:30 a.m.



Western Riverside Council of Governments Planning Directors Committee

Staff Report

Subject: REAP 1.0 Final Report

Contact: Suzanne Peterson, Analyst III, speterson@wrcog.us, (951) 405-6719

Date: August 8, 2024

Recommended Action(s):

1. Receive and file.

Summary:

WRCOG received an allocation of \$1.7M in Regional Early Action Planning (REAP) Subregional Partnership Program (SRP) 1.0 funds. The REAP SRP 1.0 Memorandum of Understanding (MOU) term ended in December 2023; an overview and summary of the projects completed is provided below.

Purpose / WRCOG 2022-2027 Strategic Plan Goal:

The purpose of this item is to provide a final report summarizing the work completed with the REAP 1.0 SRP funds. This item aligns with WRCOG's 2022-2027 Strategic Plan Goal #2 (Identify and help secure grants and other potential funding opportunities for projects and programs that benefit member agencies).

Discussion:

Background

The REAP 1.0 Grant SRP was intended to increase planning to accelerate housing production throughout the Southern California Association of Governments (SCAG) region through implementable actions that would increase housing supply to meet the 6th Cycle Regional Housing Needs Assessment (RHNA). The SRP, conducted as part of the initial REAP funding, also known as REAP 1.0, had been designed to augment and complement funds that were awarded to jurisdictions by the California Department of Housing and Community Development (HCD) pursuant to Senate Bill (SB) 2 Planning Grants and the Local Early Action Program (LEAP) grant program.

REAP 1.0 Summary

WRCOG was allocated approximately \$1.7M through the REAP SRP to provide assistance to the subregion's local jurisdictions. WRCOG proposed projects to utilize the allocated funding, which was approved in late 2020. WRCOG later entered into a MOU with SCAG in March 2021 that included

approval of the proposed projects. Since 2021, WRCOG staff have worked on a variety of projects utilizing REAP funding. Some projects were intended to be a resource for all WRCOG member agencies, while other projects focused on providing direct assistance to individual cities. All REAP SRP 1.0 projects were completed as of December 2023. Many of the tools and resources developed are still available and/or are being provided by WRCOG on a continuous basis. These projects include:

- Local Housing Assistance WRCOG provided customized assistance to requesting cities on housing-related activities. These activities included SB 330 application assistance, preliminary application reviews for proposed housing developments, an in-lieu fee development for inclusionary housing ordinance, Prohousing Designation application development and assistance, and municipal code assessments and amendments. The purpose of this assistance was to help cities with activities that are specific to their city, where otherwise staff time or budget are limited, therefore making that activity burdensome or infeasible.
- Senate Bill (SB) 9 Toolkit The SB 9 Toolkit includes a model ordinance, infographic, fact sheet, development scenarios, and a technical memo summarizing the potential applicability of the Bill across each city considering limitations set by the legislation. The purpose of this Toolkit is to provide WRCOG member agencies with the maximum amount of control over SB 9 applications should any applications come forward.
- Objective Design Standards Toolkit The Objective Design Standards Toolkit contains a variety of
 model standards from many different architectural design styles found throughout the western
 Riverside County region so that agencies can pick and choose which standards they would like to
 use or incorporate. The Toolkit is intended to provide member agencies with the ability to have the
 maximum level of control over housing projects within the context of existing state legislation and
 regulations by providing a range of building, design, and landscape standards to choose from and
 to customize.
- GIS Underutilization and Sites Analysis Specialized GIS analysis was conducted to help
 jurisdictions identify locations that are substantially below what is currently allowed by zoning.
 Individual data packages are available for each city. These data sets and maps allow each
 member city to understand where, and by how much, properties are ready for redevelopment.
- Affordable Housing Pipeline The Affordable Housing Pipeline is a mapped inventory of known affordable housing projects in the WRCOG subregion that are currently in progress or recently completed and includes additional data related to affordable housing development. The purpose of the Pipeline is to serve as a resource for WRCOG's member agencies and the Housing Authority of the County of Riverside in understanding where affordable housing projects are, at what phase they are in, and identify good candidate sites based on requirements and scoring criteria for funding opportunities. The tool may also be used by affordable housing developers to help identify competitive sites based on various funding criteria and scoring preferences.
- Prohousing Designation Feasibility Study This Study assessed the likelihood of a city's ability to successfully apply for the California Department of Housing and Community Development (HCD) Prohousing Designation. Having HCD's Prohousing Designation will open cities up for additional funding opportunities for housing and potentially allow them to score higher on other state planning and transportation funding opportunities as well.
- Grant Notifications and Assistance WRCOG provides monthly grant repository reports to
 highlight funding opportunities available for housing-related activities and more. This information
 is shared with the Planning Directors Committee. Additional member agency contacts may be
 added to the distribution list, and this information is provided on a continuous basis. WRCOG had
 also provided direct assistance to cities interested in pursuing housing related grants, through
 initial feasibility to application preparation.

Legislative Updates - Regular legislative updates were provided to the Planning Directors
 Committee on proposed and adopted housing related bills. WRCOG continues to provide updates
 on new legislation and litigation outcomes from recent court cases as it relates to planning,
 housing, and community development.

Prior Action(s):

July 18, 2024: The Technical Advisory Committee received and filed.

Financial Summary:

This item is for informational purposes only; therefore, there is no fiscal impact. All activities completed during the REAP 1.0 projects were included in previous fiscal years' budgets.

Attachment(s):

None.



Western Riverside Council of Governments Planning Directors Committee

Staff Report

Subject: Senate Bill 4 - Affordable Housing on Faith Based Lands

Contact: Alexa Washburn, Chief Development Officer, National CORE,

awashburn@nationalcore.org, (949) 394-7996

Date: August 8, 2024

Recommended Action(s):

1. Receive and file.

Summary:

This item is reserved for a presentation by Alexa Washburn, Chief Development Officer with National CORE, on Senate Bill 4 requirements and implementation guidance.

Purpose / WRCOG 2022-2027 Strategic Plan Goal:

The purpose of this item is to provide information about a newly effective housing bill affecting member agencies. This item aligns with WRCOG's 2022-2027 Strategic Plan Goal #5 (Develop projects and programs that improve infrastructure and sustainable development in our subregion).

Discussion:

Background

California Senate Bill (SB) 4, Affordable Housing on Faith Lands Act, was signed into law on October 11, 2023. SB 4 provides a streamlined process for religious organizations and nonprofit colleges to develop affordable housing on their property. This presentation will provide an overview of SB 4 and highlight real examples of affordable housing projects on religious land. Information will be shared on best practices, lessons learned, and how SB 4 and partnerships with faith-based organizations can advance the Regional Housing Needs Assessment and be part of the housing solution by building service enriched, affordable housing on faith based land.

None.

Financial Summary:

Transportation & Planning Department activities are included in the Agency's adopted Fiscal Year 2024/2025 Budget under the Transportation Department. This item is for informational purposes covered by the LTF budget; this funding source is identified in the Fiscal Year 2024/2025 Budget.

Attachment(s):

None.



Western Riverside Council of Governments Planning Directors Committee

Staff Report

Subject: Overview of ULI Technical Assistance Panels

Contact: Kendra Chandler, Executive Director, ULI Orange County/Inland Empire,

kendra.chandler@uli.org, (714) 342-2965

Karen Gulley, Managing Principal, PlaceWorks, kgulley@placeworks.com, (714)

966-9220

Date: August 8, 2024

Recommended Action(s):

1. Receive and file.

Summary:

The Urban Land Institute (ULI) Orange County/Inland Empire (OC/IE) section offers Technical Assistance Panels (TAPs) to provide expert, multi-disciplinary advice to local governments, public agencies, and nonprofit organizations facing complex land use and real estate issues in the area. The goal of the TAPs is to provide objective and responsible guidance on a variety of land use and real estate issues ranging from site specific projects to public policy questions.

Purpose / WRCOG 2022-2027 Strategic Plan Goal:

The purpose of this item is to provide an overview of TAPs opportunities provided through ULI. This presentation and information aligns with WRCOG's 2022-2027 Strategic Plan Goal #2 (Identify and help secure grants and other potential funding opportunities for projects and programs that benefit member agencies).

Discussion:

Drawing from its seasoned professional membership base, ULI OC/IE offers objective and responsible guidance on a variety of land use and real estate issues ranging from site specific projects to public policy questions. Panelists have experience in the planning, development, and redevelopment of land, and the ownership, management, and financing of real property, specifically related to the designated study area. Selected panelists spend one to two days working together as a team to provide expertly vetted recommendations. TAP panelists are screened to avoid potential conflicts of interest. The result is a joint effort between ULI and the organization that produces an implementation strategy based on sound information, community realities, and best practices to guide the community towards the best possible outcome.

Prior Action(s):
None.
Financial Summary:
This item is for informational purposes only; therefore, there is no fiscal impact.
Attachment(s):
None.



Western Riverside Council of Governments Planning Directors Committee

Staff Report

Subject: Provide Overview of the TUMF Nexus Study - Final Draft

Contact: Chris Gray, Deputy Executive Director, cgray@wrcog.us, (951) 405-6710

Date: August 8, 2024

Recommended Action(s):

1. Receive and file.

Summary:

The TUMF Nexus Study draws a connection between the needs of the Program and the TUMF Program Fee Schedule. The Nexus Study identifies projects requiring mitigation from new development, determines anticipated project costs, and assesses fees to fund these projects. Analysis through transportation modeling work has determined a list of projects eligible for mitigation. Staff released the draft for a 30-day review / comment period. These comments have been addressed by WRCOG staff and responses have been provided to everyone who provided comments. The final draft is now being presented for review by WRCOG's various committees prior to review and potential approval by the WRCOG Executive Committee.

Purpose / WRCOG 2022-2027 Strategic Plan Goal:

The purpose of this item is to present the final draft of the TUMF Nexus Study. This effort aligns with WRCOG's 2022-2027 Strategic Plan Goal #5 (Develop projects and programs that improve infrastructure and sustainable development in our sub-region).

Discussion:

Background

At its October 4, 2021, meeting, the Executive Committee gave direction for staff to begin work on a Nexus Study update. The Nexus Study draws a connection between the needs of the Program and the TUMF Program Fee Schedule. The Nexus Study identifies projects requiring mitigation from new development, determines what the cost of those projects will be, and which fees need to be assessed to fund these projects. Nexus Study updates have occurred on a regular basis with updates done in 2005, 2009, 2011, and 2017.

The key reasons for a Nexus Study update include the following:

- It is considered a best practice to update on a regular basis
- Underlying growth forecasts have changed since the last update
- Travel behavior has changed, particularly viewed in light of COVID-19
- The project list has changed, with past projects completed and new projects identified
- Opportunity to add new project types, such as Intelligent Transportation System (ITS) infrastructure

Present Situation

The draft Nexus Study satisfies the needs of the Mitigation Fee Act (AB 1600) which governs imposing development impact fees in California. The draft Nexus Study confirms the following, as per AB 1600 rules:

- 1. Establish a nexus or reasonable relationship between the development impact fee's use and the type of project for which the fee is required.
- 2. The fee must not exceed the project's proportional "fair share" of the proposed improvement and cannot be used to correct current problems or to make improvements for existing development.

This draft document describes the various assumptions, data inputs and analysis leading to the determination of each major variable in the TUMF calculation, and ultimately leads to the determination of the TUMF Schedule of Fees and the maximum "fair share" fee for each of the various use types defined in the TUMF Program. These two primary outputs are included in the draft document and represent the two main components of the Nexus Study. The final Nexus Study is provided as Attachment 1.

The first output of the draft Nexus Study is the TUMF Network Cost Estimates (Table 4.4 of Attachment 1). This list includes all the infrastructure projects included in the TUMF Program. These infrastructures include road widening, interchanges, bridges, grade separations, transit projects, and ITS projects. Each project in this list is on the TUMF Regional System of Highways and Arterials, and will have potential TUMF funding. Eligible projects would include those that, due to congestion, have a need to be mitigated. This mitigation could be adding a lane to a road, widening a bridge, or improving an interchange. The Nexus Study also determines how much of the mitigation need is being caused by traffic from new development. From these calculations a total eligible funding figure is presented on each project, also known as a 'maximum TUMF share.' This figure represents the maximum amount of TUMF funding that the local agency can request to be allocated towards one of its projects.

The second key component of the Nexus Study is the TUMF Fee Schedule. The total cost to mitigate the TUMF Network is divided among the different types of developments in proportion to their expected traffic impacts. TUMF groups the various land use categories to simplify the administration of the Program. The main uses are Single-family Residential, Multi-family Residential, Service, Retail, and Industrial. The fee schedule represents the maximum fee permissible under California law for the purposes of the TUMF Program.

Consistent with the requirements of AB 602, WRCOG will be implementing a tiered approach to calculate and collect fees for single-family units based on the size of the unit itself. This tiered approach will use the final adopted Single-Family fee as a basis for these tiers. For example, a smaller home will pay a fee which is less than the standard single-family fee while a larger home will be a higher fee. The exact values of these tiers will not be known until the Single-Family fee is finalized. The actual process by

which these tiers are implemented by through the TUMF Fee Calculation Handbook, which is one of the main TUMF governance documents. The TUMF Fee Calculation Handbook, along with other TUMF governance documents, will be updated prior to the implementation of any increase in TUMF.

Public Comment

The public comment period for the Draft Nexus Study opened on May 13th and two informational meetings were held on May 21, 2024 and June 4, 2024. The comment period closed on June 10, 2024, though WRCOG has continued to accept comments after the closing of the comment period.

A total of 13 letters were received with 42 separate comments. Comments were received from:

- City of Corona
- · City of Eastvale
- · City of Lake Elsinore
- City of Moreno Valley
- · City of Perris
- · City of Riverside
- · City of San Jacinto
- Habitat for Humanity
- Riverside County, Transportation Land Use Management Agency
- Southern California Building Industry Association (BIA)
- Michael McCarthy (City of Riverside resident)
- Ms. Dooley (City of Jurupa Valley resident)
- Ms. Marshal (City of Jurupa Valley resident)

All parties who commented were provided with a written response which was provided to them during the week of July 29th. Some key comments that were received included:

- Specific questions on the inclusion or exclusion of specific projects The majority of the questions
 we received from our member agencies were in relation to the amount of funding for projects in the
 jurisdiction in question. Where appropriate, adjustments were made to the roadway network in
 response to these comments.
- Comments regarding the negative impacts of warehouses Several residents commented that
 warehouses have negative impacts related to noise, air quality, road maintenance and other
 related items. WRCOG responded that many of these impacts are outside of the TUMF Program
 jurisdiction and those comments are best addressed to their local agency.
- Impact of SB 743 Several commenters questioned whether the TUMF program could continue to fund roadway projects after the implementation of SB 743, which requires projects to evaluate their impacts to the environment using VMT as a metric. WRCOG noted that SB 743 is applicable to CEQA documents only, and has no impact on fee programs such as TUMF.
- One commenter asked that we reduce TUMF fees on affordable housing project. WRCOG's
 response was that these projects are currently exempt from TUMF and therefore any changes in
 the TUMF fees would not impact these types of projects.

All of the comments and WRCOG's responses are provided in Attachment 2.

Next Steps

The WRCOG Executive Committee will be asked to take two separate actions. The first action will be to approve the Nexus Study. The section action will be to set the Fee Schedule for each land use type. Traditionally setting the fee schedule also requires determining a date at which the new fees become effective. Attachment 3 provides the recommended fee schedule along with the effective date of April 1, 2025.

The Public Works Committee, Administration & Finance Committee, and the Technical Advisory Committee will be asked to make a recommendation to the Executive Committee regarding both the Nexus Study and the Fee Schedule. If the Executive Committee adopts the Nexus Study and Updated Fee Schedule, the following actions will be required to implement the updated fees:

- WRCOG Staff and BBK must develop an updated Draft TUMF Ordinance and distribute this
 document to each WRCOG Member agency staff and legal counsel for their review. This process
 generally takes 1-2 months.
- Agency Staff is then responsible for scheduling action by their elected body to formally adopt this
 ordinance. This adoption process must follow the requirements of State Law and generally takes
 2-3 months. We anticipate any formal action by our members would occur in mid to late
 November or December. For consistency purposes, we ask that each elected governing board
 (City Council, Board of Supervisors, Commission) from TUMF participating agencies adopt the
 ordinance with an effective date several months later than the action to allow a transition period
 between the old fee and new fee.
- WRCOG Staff will also be working to update our administrative and technical documents such as our TUMF Administrative Plan, TUMF Fee Calculation Handbook, our TUMF Fee Calculator and our TUMF Payment Portal. As noted above, the adjustment to the single-family fee based on the size of individual units will be implemented through the TUMF Fee Calculation Handbook. These updates will require approval by WRCOG Committees with this approval occurring in Q1 2025.
- Assuming all of this work proceeds on schedule, new fees will become effective on consistent date
 among all WRCOG agencies. At this time, WRCOG is recommending that the updated Fee
 Schedule become effective April 1, 2025. This period of time allows for all of the necessary
 technical, administrative, and legal steps necessary and also provides an opportunity for extensive
 outreach with the development community to ensure that this transition to the new fee schedule is
 as orderly as possible.

Prior Action(s):

<u>May 6, 2024</u>: The Executive Committee released the draft Nexus Study for a 30-day review and comment period.

April 18, 2024: The Technical Advisory Committee received and filed.

April 11, 2024: The Public Works Committee recommended that the Executive Committee release the draft Nexus Study for a 30-day review and comment period.

April 11, 2024: The Planning Directors Committee's recommended that the Executive Committee release the draft Study for a 30-day review and comment period.

April 10, 2024: The Administration & Finance Committee recommended that the Executive Committee release the draft Study for a 30-day review and comment period.

February 15, 2024: The Technical Advisory Committee received and filed.

February 14, 2024: The Administration & Finance Committee received and filed.

February 8, 2024: The Public Works Committee received and filed.

December 14, 2023: The Public Works Committee received and filed.

October 12, 2023: The Public Works Committee received and filed.

August 10, 2023: The Public Works Committee received and filed.

June 8, 2023: The Public Works Committee received and filed.

April 13, 2023: The Public Works Committee approved the updated TUMF Nexus Study Roadway Network.

July 11, 2022: The Executive Committee received and filed.

March 17, 2022: The Technical Advisory Committee received and filed.

March 10, 2022: The Public Works Committee received and filed.

October 4, 2021: The Executive Committee gave direction to 1) begin work on a TUMF Nexus Study update; 2) update the TUMF Administrative Plan to expand the TUMF-eligible project list to include Intelligent Transportation Systems projects; 3) work with the Riverside County Transportation Commission and Riverside Transit Agency to evaluate options to mitigate VMT impacts from new development outside of the TUMF Nexus Study update; and 4) begin work on an update of the Analysis of Development Impact Fees in Western Riverside County.

Financial Summary:

Funding for TUMF activities is included in the Fiscal Year 2024/2025 budget under the TUMF Program (1148) in the General Fund (110). 4% of all TUMF collections are allocated for administrative purposes.

Attachment(s):

Attachment 1 - TUMF Nexus Study Final Draft

Attachment 2- WRCOG Responses to Public Comments

Attachment 3 - Recommended Fee Schedule

Attachment

TUMF Nexus Study - Final Draft



TRANSPORTATION UNIFORM MITIGATION FEE NEXUS STUDY 2024 UPDATE

FINAL REPORT

Prepared for the Western Riverside Council of Governments

In Cooperation with

The City of Banning

The City of Beaumont

The City of Calimesa

The City of Canyon Lake

The City of Corona

The City of Eastvale

The City of Hemet

The City of Jurupa Valley

The City of Lake Elsinore

The City of Menifee

The City of Moreno Valley

The City of Murrieta

The City of Norco

The City of Perris

The City of Riverside

The City of San Jacinto

The City of Temecula

The City of Wildomar

The County of Riverside

Eastern Municipal Water District

March Joint Powers Authority

Riverside County Superintendent of Schools

Riverside Transit Agency

Western Water

Prepared by GHD

FINAL DRAFT July 25, 2024





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ES.O EXECUTIVE SUMMARY

ES.1 Introduction and Purpose of the Nexus Study

Western Riverside County includes 18 incorporated cities and the unincorporated county covering an area of approximately 2,100 square miles. Through the mid 2000's, this portion of Riverside County was growing at a pace exceeding the capacity of existing financial resources to meet increasing demand for transportation infrastructure. Although the economic recession of the late 2000's, and the associated crises in the mortgage and housing industries, slowed this rate of growth, the regional economy has recovered and the projected rate of development in Western Riverside County remains high. Similarly, the impact of the COVID-19 pandemic on travel demand in the region has also passed, with travel demands, especially for the highway network, surpassing pre-pandemic levels. Continued high growth in households and jobs in Western Riverside County could significantly increase congestion and degrade mobility if substantial investments are not made in transportation infrastructure. This challenge is especially critical for arterial roadways of regional significance, since traditional sources of transportation funding (such as the gasoline tax and local general funds) will not be nearly sufficient to fund the needed improvements.

In February 1999, the cities of Temecula, Murrieta and Lake Elsinore, the Western Riverside Council of Governments (WRCOG), the Riverside County Transportation Commission (RCTC) and the Building Industry Association (BIA) met to discuss the concept of a Transportation Uniform Mitigation Fee (TUMF) for southwest Riverside County. In August 2000, the concept was expanded to include the entire WRCOG subregion.

Continued high growth in households and jobs in Western Riverside County could significantly increase congestion and degrade mobility if substantial investments are not made in transportation infrastructure. This challenge is especially critical for arterial roadways of regional significance, since traditional sources of transportation funding (such as the gasoline tax and local general funds) will not be nearly sufficient to fund the needed improvements. While the TUMF cannot fund all necessary transportation system improvements, it is intended to address a current transportation funding shortfall by establishing a new revenue source that ensures future new development will contribute toward addressing its indirect cumulative traffic impacts on regional transportation infrastructure. Funding accumulated through the TUMF Program will be used to construct transportation improvements such as new arterial highway lanes, reconfigured freeway interchanges, railroad grade separations and new regional express bus services that will be needed to accommodate future travel demand in Western Riverside County. By levying a fee on new developments in the region, local agencies will be establishing a mechanism by which developers and in turn new county residents and employees will effectively contribute their "fair share" toward sustaining the regional transportation system.

This TUMF Draft Nexus Study is intended to satisfy the requirements of California Government Code Chapter 5 Section 66000-66008 Fees for Development Projects (also

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known as California Assembly Bill 1600 (AB 1600) or the Mitigation Fee Act) which governs imposing development impact fees in California. The initial WRCOG TUMF Nexus Study was completed in October 2002 and adopted by the WRCOG Executive Committee in November 2002. The results of the first review of the Program were documented in the TUMF Nexus Study 2005 Update adopted by the WRCOG Executive Committee on February 6, 2006. A second comprehensive review of the TUMF Program was adopted by the WRCOG Executive Committee on October 5, 2009. A third comprehensive review of the TUMF Program was conducted following the adoption of the Southern California Association of Governments (SCAG) 2016-2040 Regional Transportation Plan/ Sustainable Communities Strategy (2016 RTP/SCS) on April 7, 2016. The WRCOG TUMF Nexus Study 2016 Update Report was adopted by the WRCOG Executive Committee on July 10, 2017.

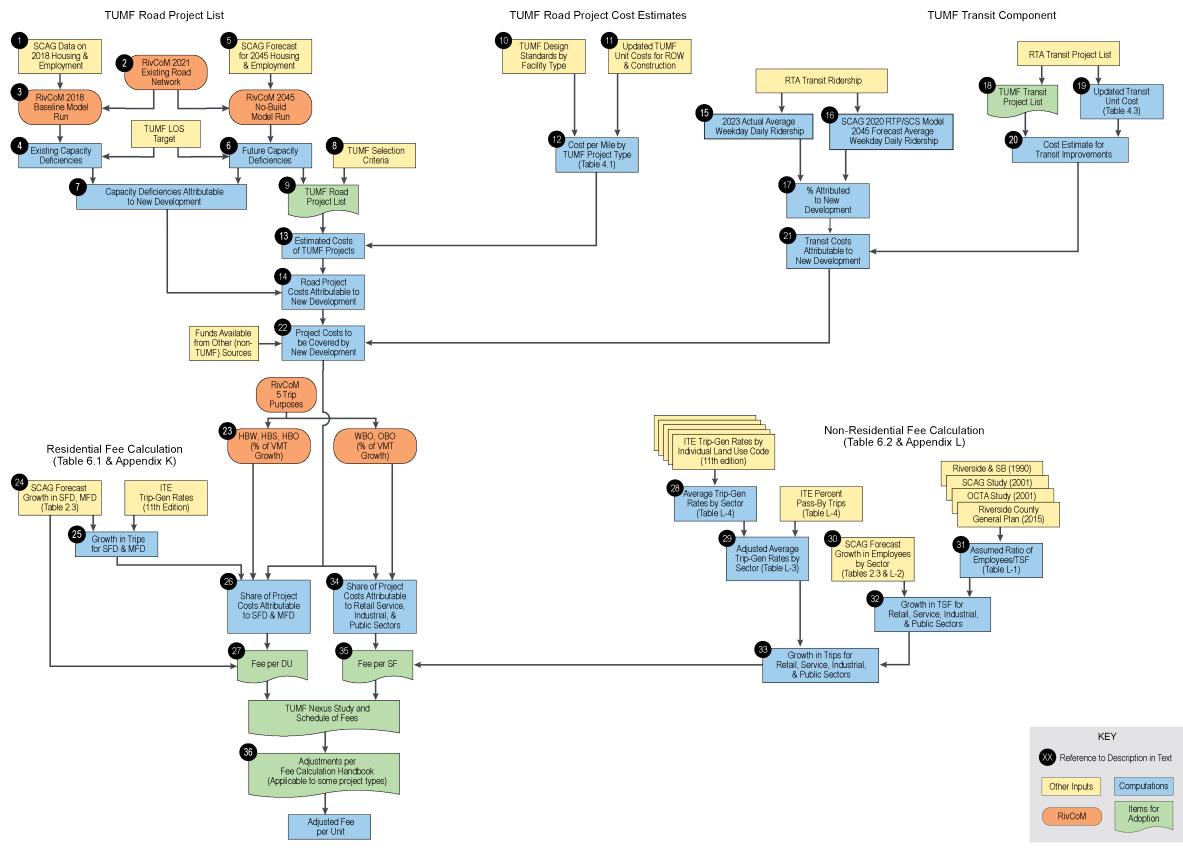
On September 3, 2020, SCAG adopted Connect SoCal; The 2020-2045 Regional Transportation Plan/Sustainable Communities Strategy of the Southern California Association of Governments (2020 RTP/SCS). The adoption of the 2020 RTP/SCS confirmed new growth forecasts for the region that provide a foundational element for updating the TUMF program and the associated nexus determination prompting WRCOG to initiate the current program update. These forecasts are also integrated into the Riverside County Transportation Analysis Model (RivCoM) used to forecast the cumulative regional traffic impacts of new development on the arterial highway network in Western Riverside County.

The overall process for establishing the TUMF nexus is illustrated in Figure ES.1. Each technical step is denoted with a number on the flow chart with the numbers correlating to the detailed description of each step provided in Section 1.3 of the Nexus Study Report. The flow chart also incorporates color coding of the steps to indicate those steps that involved the application of RivCoM, steps that utilized other input data, steps that are computations of various inputs, and steps that required specific actions of the various WRCOG committees to confirm major variables. Where appropriate, the flow chart also includes specific cross references to the sections or tables included in the Nexus Study document that correlate to the particular step.

This version of the WRCOG TUMF Nexus Study Report documents the results of the fourth comprehensive review of the TUMF Program. This version of the document also incorporates revisions in response to comments received during the formal review of the earlier Draft TUMF Nexus Study 2024 Update. The findings of this report were ultimately adopted by the WRCOG Executive Committee on TBD.

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Figure ES.1 - Flowchart of Key Steps in the TUMF Nexus Study Process



WRCOG TUMF Nexus Study – 2024 Program Update DRAFT

ES.2 Future Growth

In preparation for the 2020 RTP/SCS, SCAG undertook robust stakeholder engagement, including participation by WRCOG, Riverside County and the various cities in Western Riverside County, to develop regional demographic forecasts. Using input from regional stakeholders regarding anticipated patterns and rates of development, SCAG compiled and disseminated the forecasts that were ultimately adopted in 2020. The SCAG forecasts adopted for the 2020 RTP/SCS were subsequently used as the basis for RivCoM and are used as the basis for this TUMF Nexus Study Update.

A major distinction between data used for the TUMF Nexus Study 2016 Update and the SCAG 2020 RTP/SCS data used for this 2024 Update is the change in the base year from 2012 to 2018, as well as the change in the horizon year from 2040 to 2045. This shift in the base year and horizon year demographic assumptions of the program carries through all aspects of the nexus analysis, including the travel demand forecasting, network review and fee calculation.

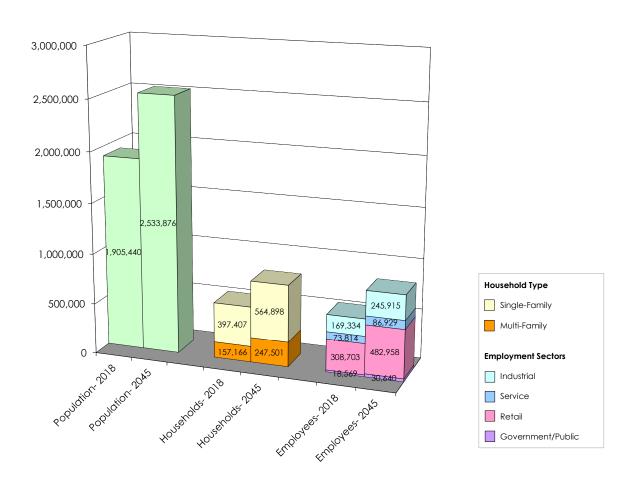
The population of Western Riverside County is projected to increase by 33% in the period between 2018 and 2045. During the same period, employment in Western Riverside County is anticipated to grow by 48%. **Figure ES.2** illustrates the forecast growth in population, household and employment for Western Riverside County.

ES.3 Need for the TUMF

The WRCOG TUMF study area was extracted from the greater RivCoM model network for the purpose of calculating measures for Western Riverside County only. Peak period performance measures for the TUMF study area included total vehicle miles of travel (VMT), total vehicle hours of travel (VHT), total combined vehicle hours of delay (VHD), and total VMT experiencing unacceptable level of service (LOS E).

As a result of the new development and associated growth in population and employment in Western Riverside County, additional pressure will be placed on the transportation infrastructure, particularly the arterial roadways, with the peak period VMT on the TUMF Network estimated to increase by 38% between 2018 and 2045. By 2045, 37% of the total VMT on the TUMF Network is forecast to be traveling on facilities experiencing peak period LOS E or worse. Without improvements to the arterial highway system, the total vehicle hours of delay (VHD) experienced by area motorists on the TUMF Network will increase over 5.0% per year. The need to improve these roadways and relieve future congestion is therefore directly linked to the future development which generates the travel demand.

Figure ES.2 - Population, Households and Employment in Western Riverside County (2018 to 2045)



As population and employment in Western Riverside County grows because of new development, demand for regional transit services in the region is also expected to grow. Weekday system ridership for RTA bus transit services is approximately 16,575 riders per day in Western Riverside County in 2023. By 2045, bus transit services are forecast to serve approximately 57,282 riders per weekday. This represents an average increase of 1,850 weekday riders each year. Based on this rate of ridership growth, weekday ridership is estimated to increase by 40,707 riders per weekday between 2018 and 2045.

The idea behind a uniform mitigation fee is to have new development throughout the region contribute equally to paying the cost of improving the transportation facilities that serve these longer-distance trips between communities. Thus, the fee should be used to improve transportation facilities that serve trips between communities within the region (primarily arterial roadways) as well as the infrastructure for public transportation. The fee should be assessed proportionately on new residential and non-residential development based on the relative impact of each use on the transportation system.

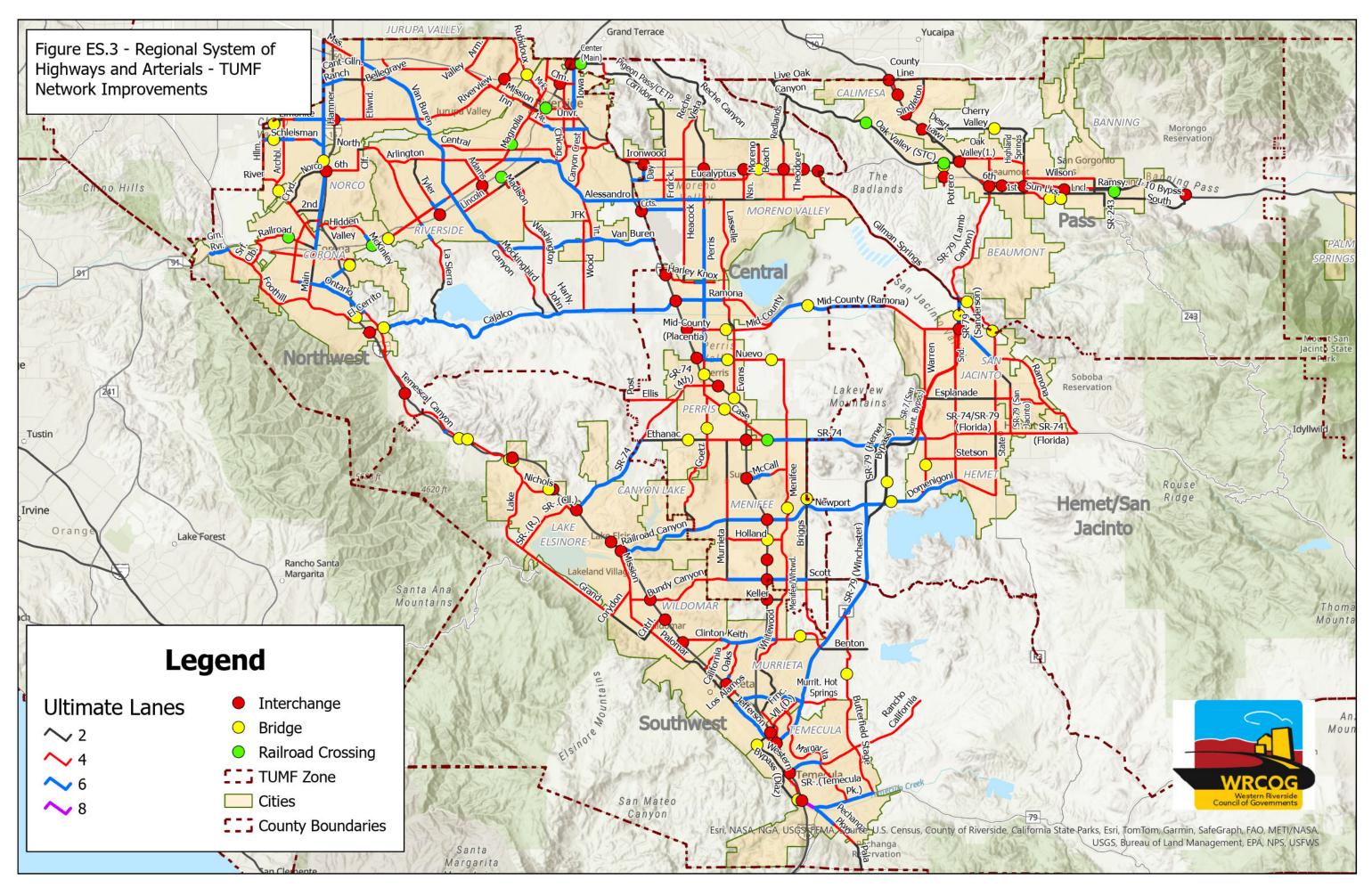
ES.4 The TUMF Network

The Regional System of Highways and Arterials (also referred to as the TUMF Network) is the system of roadways that serve inter-community trips within Western Riverside County and therefore are eligible for improvement funding with TUMF funds. Transportation facilities in Western Riverside County that generally satisfied these guidelines were initially identified, and a skeletal regional transportation framework evolved from facilities where several guidelines were observed. Representatives of all WRCOG constituent jurisdictions reviewed this framework in the context of current local transportation plans to define the TUMF Network, which was subsequently endorsed by the WRCOG Public Works Committee, WRCOG Technical Advisory Committee, TUMF Policy Committee and the WRCOG Executive Committee.

The TUMF Network was reviewed as part of the 2024 Nexus Update to ensure facilities generally still met the previously described performance guidelines, and/or that the scope and magnitude of specific improvements to the TUMF Network were roughly proportional to the impacts needing to be mitigated. This review process resulted in the removal of various facilities from the TUMF Network, as well as various changes in the scope and magnitude of specific improvements to the TUMF Network.

Figure ES.3 illustrates the TUMF improvements to the Regional System of Highways and Arterials.

The total cost of improving the TUMF system is \$5.28 billion. Accounting for obligated funds and unfunded existing needs, the estimated maximum eligible value of the TUMF Program is \$4.24 billion. The maximum eligible value of the TUMF Program includes approximately \$3.87 billion in eligible arterial highway and street related improvements and \$154.8 million in eligible transit related improvements. An additional \$53.9 million is also eligible as part of the TUMF Program to mitigate the impact of eligible TUMF related arterial highway and street projects on critical native species and wildlife habitat, while \$161.2 million is provided to cover the costs incurred by WRCOG to administer the TUMF Program.



ES.5 TUMF Nexus Analysis

There is a reasonable relationship between the future growth and the need for improvements to the TUMF system. These factors include:

- Western Riverside County is expected to continue growing as a result of future new development.
- > Continuing new growth will result in increasing congestion on arterial roadways.
- The future arterial roadway congestion is directly attributable to the cumulative regional transportation impacts of future development in Western Riverside County.
- Capacity improvements to the transportation system will be needed to mitigate the cumulative regional impacts of new development.
- Roads on the TUMF network are the facilities that merit improvement through this fee program.
- Improvements to the public transportation system will be needed to provide adequate mobility for transit-dependent travelers and to provide an alternative to automobile travel.

The split of fee revenues between the backbone and secondary highway networks is related to the proportion of highway vehicle travel that is relatively local (between adjacent communities) and longer distance (between more distant communities but still within Western Riverside County). To estimate a rational fee split between the respective networks, the future travel forecast estimates were aggregated to a matrix of peak period trips between zones. The overall result is that 51.1% of the regional travel is attributable to the backbone network and 48.9% is assigned to the secondary network.

In order to establish the approximate proportionality of the future traffic impacts associated with new residential development and new non-residential development, peak period growth in VMT between 2018 and 2045 was derived from RivCoM and aggregated by trip purpose. It was concluded that home-based person trips represent 77.7% of the total future person trips, and the non-home-based person trips represent 22.3% of the total future person trips.

ES.6 Fair-Share Fee Calculation

The balance of the unfunded TUMF system improvement needs is \$4.24 billion which is the maximum value attributable to the mitigation of the cumulative regional transportation impacts of future new development in the WRCOG region and will be captured through the TUMF Program. By levying the uniform fee directly on future new developments (and indirectly on new residents and new employees to Western Riverside County), these transportation system users are assigned their "fair share" of the

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costs to address the cumulative impacts of additional traffic they will generate on the regional transportation system.

Of the \$4.24 billion in unfunded future improvement needs, 77.7% (\$3.30 billion) will be assigned to future new residential development and 22.3% (\$946.5 million) will be assigned to future new non-residential development.

ES.7 Conclusions

Based on the results of the Nexus Study evaluation, it can be demonstrated that there is reasonable relationship between the cumulative regional transportation impacts of new land development projects in Western Riverside County and the need to mitigate these transportation impacts using funds levied through the proposed TUMF Program. Factors that reflect this reasonable relationship include:

- Western Riverside County is expected to continue growing as a result of future new development.
- Continuing new growth will result in increasing congestion on arterial roadways;
- The future arterial roadway congestion is directly attributable to the cumulative regional transportation impacts of future development in Western Riverside County;
- Capacity improvements to the transportation system will be needed to mitigate the cumulative impacts of new development;
- Roads on the TUMF network are the facilities that merit improvement through this fee program;
- ➤ Improvements to the public transportation system will be needed to provide adequate mobility for transit-dependent travelers and to provide an alternative to automotive travel.

The Nexus Study evaluation has established a proportional "fair share" of the improvement cost attributable to new development based on the impacts of existing development and the availability of obligated funding through traditional sources. The fair share fee allocable to future new residential and non-residential development in Western Riverside County is summarized for differing use types in **Table ES.1**.

Table ES.1 - Transportation Uniform Mitigation Fee for Western Riverside County								
Land Use Type	Units	Development Change	Fee Per Unit	Total Revenue (\$ million)				
Single Family Residential	DU	167,491	\$15,476	\$2,592.0				
Multi Family Residential	DU	90,335	\$7,816	\$706.1				
Industrial	SF GFA	61,489,565	\$2.33	\$143.1				
Retail	SF GFA	6,557,500	\$11.21	\$73.5				
Service	SF GFA	66,735,957	\$9.76	\$651.1				
Government/Public	SF GFA	3,420,665	\$23.07	\$78.9				
MAXIMUM TUMF VALUE				\$2,961.0				

1.0 INTRODUCTION AND PURPOSE OF THE NEXUS STUDY

1.1 Background

Western Riverside County includes 18 incorporated cities and the unincorporated county covering an area of approximately 2,100 square miles. Through the mid 2000's, this portion of Riverside County was growing at a pace exceeding the capacity of existing financial resources to meet increasing demand for transportation infrastructure. Although the economic recession of the late 2000's, and the associated crises in the mortgage and housing industries, slowed this rate of growth, the regional economy has recovered and the projected rate of development in Western Riverside County remains high. Similarly, the impact of the COVID-19 pandemic on travel demand in the region has also passed, with travel demands, especially for the highway network, surpassing pre-pandemic levels.

Continued high growth in households and jobs in Western Riverside County could significantly increase congestion and degrade mobility if substantial investments are not made in transportation infrastructure. This challenge is especially critical for arterial roadways of regional significance, since traditional sources of transportation funding (such as the gasoline tax and local general funds) will not be nearly sufficient to fund the needed improvements. Development exactions only provide improvements near the development site, and the broad-based county-level funding sources (i.e., Riverside County's half-cent sales tax known as Measure A) designate only a small portion of their revenues for arterial roadway improvements.

In anticipation of the continued future growth projected in Riverside County, several county-wide planning processes were initiated in 1999. These planning processes include the Riverside County General Plan Update, the Community Environmental Transportation Acceptability Process (CETAP) and the Multi-Species Habitat Conservation Plan (MSHCP). Related to these planning processes is the need to fund the mitigation of the cumulative regional transportation impacts of future new development.

Regional arterial highways in Western Riverside County are forecast to carry significant traffic volumes by 2045. While some localized fee programs exist to mitigate the local impacts of new development on the transportation system in specific areas, and while these programs are effective locally, they are insufficient in their ability to meet the regional demand for transportation infrastructure. Former Riverside County Supervisor Buster recognized the need to establish a comprehensive funding source to mitigate the cumulative regional transportation impacts of new development on regional arterial highways. The need to establish a comprehensive funding source for arterial highway improvements has evolved into the development of the Transportation Uniform Mitigation Fee (TUMF) for Western Riverside County.

In February 1999, the cities of Temecula, Murrieta and Lake Elsinore, the Western Riverside Council of Governments (WRCOG), the Riverside County Transportation Commission (RCTC) and the Building Industry Association (BIA) met to discuss the

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concept of a TUMF. The intent of this effort was to have the southwest area of Western Riverside County act as a demonstration for the development of policies and a process for a regional TUMF Program before applying the concept countywide. From February 1999 to September 2000, the Southwest Area Transportation Infrastructure System Funding Year 2020 (SATISFY 2020) Program progressed with policy development, the identification of transportation improvements, traffic modeling, cost estimates, fee scenarios and a draft Implementation Agreement.

In May 2000, Riverside County Supervisor Tavaglione initiated discussions in the northwest area of Western Riverside County to determine the level of interest in developing a TUMF for that area of the county. Interest in the development of a northwest area fee program was high. In August 2000, the WRCOG Executive Committee took action to build upon the work completed in the southwest area for the SATISFY 2020 program and to develop a single consolidated mitigation fee program for all of Western Riverside County. This action was predicated on the desire to establish a single uniform mitigation fee program to mitigate the cumulative regional impacts of new development on the regional arterial highway system, rather than multiple discrete and disparate fee programs with varying policies, fees and improvement projects. A TUMF Policy Committee comprising regional elected officials was formed to recommend and set policies for staff to develop the TUMF Program and provide overall guidance to all other staff committees.

While the TUMF cannot fund all necessary transportation system improvements, it is intended to address a current transportation funding shortfall by establishing a new revenue source that ensures future new development will contribute toward addressing its indirect cumulative traffic impacts on regional transportation infrastructure. Funding accumulated through the TUMF Program will be used to construct transportation improvements such as new arterial highway lanes, reconfigured freeway interchanges, railroad grade separations and new regional express bus services that will be needed to accommodate future travel demand in Western Riverside County. By levying a fee on new developments in the region, local agencies will be establishing a mechanism by which developers and in turn new county residents and employees will effectively contribute their "fair share" toward sustaining the regional transportation system.

This TUMF Nexus Study is intended to satisfy the requirements of California Government Code Chapter 5 Section 66000-66008 Fees for Development Projects (also known as California Assembly Bill 1600 (AB 1600) or the Mitigation Fee Act), which governs imposing development impact fees in California. The Mitigation Fee Act requires that all local agencies in California, including cities, counties, and special districts follow two basic rules when instituting impact fees. These rules are as follows:

- 1) Establish a nexus or reasonable relationship between the development impact fee's use and the type of project for which the fee is required.
- 2) The fee must not exceed the project's proportional "fair share" of the proposed improvement and cannot be used to correct current problems or to make improvements for existing development.

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1.2 TUMF Nexus Study History

The TUMF Program is implemented through the auspices of WRCOG. As the council of governments for Western Riverside County, WRCOG provides a forum for representatives from 18 cities, the Riverside County Board of Supervisors, the Eastern Municipal Water District, Western Water, the Riverside County Superintendent of Schools, the March Joint Powers Authority and the Riverside Transit Agency to collaborate on issues that affect the entire subregion, such as air quality, solid waste, transportation and the environment. WRCOG strives to "respect local control, provide regional perspective, and make a difference" to elevate the quality of life throughout the subregion. A current list of the standing WRCOG committees and committee membership that oversee the TUMF program is included in **Appendix A**.

The initial WRCOG TUMF Nexus Study was completed in October 2002 and adopted by the WRCOG Executive Committee in November 2002. Its purpose was to establish the nexus or reasonable relationship between new land development projects in Western Riverside County and the proposed development impact fee that would be used to improve regional transportation facilities. It also identified the proportional "fair share" of the improvement cost attributable to new development.

Consistent with the provisions of the Mitigation Fee Act, the WRCOG Executive Committee has established that the TUMF Nexus Study will be subject of a comprehensive review of the underlying program assumptions at least every five years to confirm the Nexus. Acknowledging the unprecedented and unique nature of the TUMF Program, the Executive Committee determined that the first comprehensive review of the Program should be initiated within two years of initial adoption of the Program primarily to validate the findings and recommendations of the study and to correct any program oversights. The results of the first review of the Program were documented in the TUMF Nexus Study 2005 Update adopted by the WRCOG Executive Committee on February 6, 2006. A second comprehensive review of the TUMF Program was conducted in 2008 and 2009 in part to address the impacts of the economic recession on the rate of development within the region and on transportation project costs. The findings of the 2009 review of the program were adopted by the WRCOG Executive Committee on October 5, 2009.

A third comprehensive review of the TUMF Program was conducted in 2014 and 2015 leading to a Draft Nexus Study document being distributed for review in August 2015. The WRCOG Executive Committee subsequently considered comments related to the Draft Nexus Study 2015 Update at the meeting held on September 14, 2015, where it was resolved to "delay finalizing the Nexus Study for the TUMF Program Update until the 2016 Southern California Association of Governments' 2016 Regional Transportation Plan / Sustainable Communities Strategy growth forecast is available for inclusion in the Nexus Study". The Southern California Association of Governments (SCAG) adopted the 2016-2040 Regional Transportation Plan/ Sustainable Communities Strategy (2016 RTP/SCS) on April 7, 2016, enabling WRCOG staff to proceed with finalizing the update of the TUMF Nexus Study. The WRCOG TUMF Nexus Study 2016 Update Report was ultimately adopted by the WRCOG Executive Committee on July 10, 2017.

On September 3, 2020, SCAG adopted <u>Connect SoCal</u>; The <u>2020-2045 Regional Transportation Plan/Sustainable Communities Strategy of the Southern California Association of Governments</u> (2020 RTP/SCS). As stated in the plan document "Connect SoCal embodies a collective vision for the region's future, through the horizon year of 2045. It is developed with input from a wide range of constituents and stakeholders within the Counties of Imperial, Los Angeles, Orange, Riverside, San Bernardino and Ventura, including public agencies, community organizations, elected officials, tribal governments, the business community and the public. Connect SoCal is an important planning document for the region, allowing public agencies who implement transportation projects to do so in a coordinated manner, while qualifying for federal and state funding."

The adoption of the 2020 RTP/SCS confirmed new growth forecasts for the region that were used as the basis to develop the Connect SoCal plan. These forecasts also provide a foundational element for updating the TUMF program and the associated nexus determination prompting WRCOG to initiate the current program update. The 2020 RTP/SCS growth forecasts are used directly in the fee calculation as the basis for determining the anticipated growth in households and employment in the region through the program horizon year of 2045. These forecasts are also integrated into the Riverside County Transportation Analysis Model (RivCoM) used to forecast the cumulative regional traffic impacts of new development on the arterial highway network in Western Riverside County.

Completed in 2021 to succeed the Riverside County Traffic Analysis Model (RIVTAM), RivCoM provides a valuable tool for supporting a variety of transportation planning activities in Riverside County, including the update of the TUMF Nexus Study. RivCoM was developed under the leadership of WRCOG in conjunction with regional partners with the intent to provide jurisdictions in Riverside County with a traffic forecasting tool that, while consistent with the SCAG regional travel demand model, provides a more appropriate level of detail to support transportation planning at the County or City level.

RivCoM is a critical tool for quantifying the cumulative regional traffic impacts of new development as part of the TUMF Nexus Study Update. Utilizing the 2020 RTP/SCS growth forecasts, RivCoM is used to quantify changes in travel demand and traffic conditions on the regional highway network, with a specific focus on the TUMF Network. RivCoM outputs are used to analyze project eligibility and quantify the fair share of traffic growth that is attributable to new development as inputs to determining the fee. The adoption of the Connect SoCal plan and the availability of RivCoM to serve as a critical tool for quantifying network impacts for the TUMF Nexus Study Update were key factors driving the schedule for this update of the fee.

To ensure new development continues to contribute a fair share of the cost to mitigate its cumulative regional transportation impacts in the period between the comprehensive review of program assumptions completed at least every five years, the WRCOG Executive Committee has also established that the TUMF Schedule of Fees will be reviewed annually, and adjusted, as needed, on July 1st to reflect current costs. The revised schedule of fees will typically be recalculated in February of each year based

on the percentage increase or decrease in the Engineering News Record (ENR) Construction Cost Index (CCI) for the twelve (12) month period from January of the prior year to January of the current year, and the percentage increase or decrease in the National Association of Realtors (NAR) Median Sales Price of Existing Single Family Homes in the Riverside/San Bernardino Metropolitan Statistical Area for the twelve (12) month period from the 3rd Quarter of the second year prior to the 3rd Quarter of the prior year (to coincide with the publication of the most recently updated index). If approved by the Executive Committee, the resultant percentage change for each of the indices will be applied to the unit cost assumptions for roadway and bus transit costs, and land acquisition costs, respectively, to reflect the combined effects of changes in eligible project costs on the resultant per unit fee for each defined land use category. The most recent annual cost adjustment to the TUMF Schedule of Fees was adopted by the WRCOG Executive Committee on July 12, 2021.

1.3 TUMF Nexus Study Process

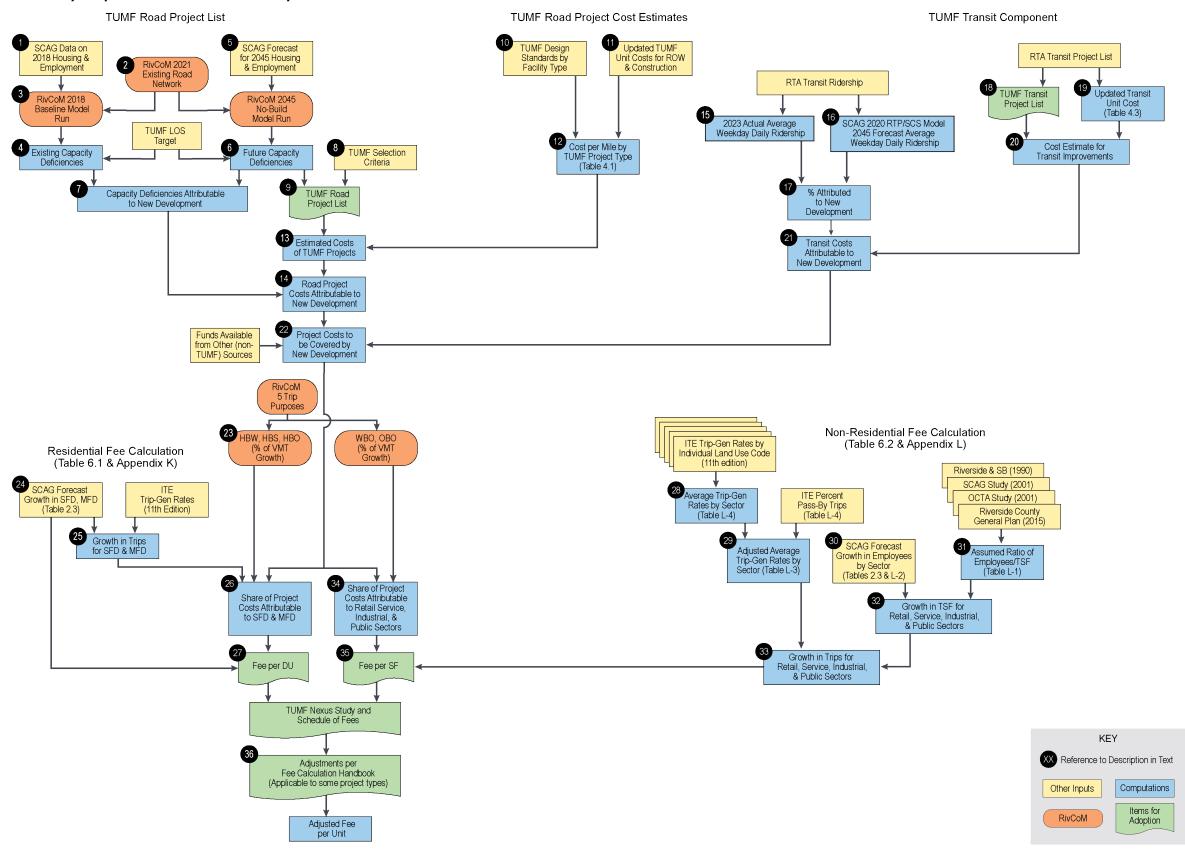
In coordination with WRCOG, city and county representatives and other interested parties have reviewed the underlying assumptions of the Nexus Study as part of this comprehensive program review. In particular, the most recent socioeconomic forecasts developed by SCAG as the basis for the 2020 RTP/SCS were incorporated. This use of the most recent SCAG forecasts resulted in a shift of the program base year from 2012 to 2018, as well as a shift in the program horizon year from 2040 to 2045. Furthermore, the TUMF Network was re-examined in detail based on travel demand forecasts derived from the most recent version of the Riverside County Model (RivCoM) to more accurately reflect future project needs to address the cumulative regional impacts of new development in Western Riverside County as well as eliminating those projects having been completed prior to the commencement of the Nexus review in 2021.

The subsequent chapters of this Nexus Study document describe the various assumptions, data inputs and analysis leading to the determination of each major variable in the TUMF calculation, and ultimately leading to the determination of the TUMF Schedule of Fees that indicates the maximum "fair share" fee for each of the various use types defined in the TUMF program. The overall process for establishing the TUMF nexus is summarized in this section, including the flow chart in **Figure 1.1** that illustrates the various technical steps in this fee calculation process. Each technical step that was followed to determine the TUMF Schedule of Fees and establish the program nexus is summarized below, with the numbers denoted on the flow chart correlating to the steps described. The flow chart also incorporates color coding of the steps to indicate those steps that involved the application of RivCoM, steps that utilized other input data, steps that are computations of various inputs, and steps that required specific actions of the various WRCOG committees to confirm major variables. Where appropriate, the flow chart also includes specific cross references to the sections or tables included in this Nexus Study document that correlate to the particular step.

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July 25, 2024

Figure 1.1 - Flowchart of Key Steps in the TUMF Nexus Study Process



WRCOG TUMF Nexus Study – 2024 Program Update DRAFT

2.3.1. Establish the TUMF Network Project List

The roadway network in Western Riverside County must be evaluated to determine how new development activity will impact the performance of the network, and how the resultant traffic impacts can be mitigated by completing various roadway improvements. The following steps integrate the latest SCAG socio-economic forecasts into RivCoM as the basis for determining future roadway deficiencies and identifying the list of eligible improvements to address these future deficiencies. The rational and methodology for accomplishing these steps is further explained in **Chapters 2 and 3** of this report, with the resultant TUMF Network described in **Chapter 4**.

- 1) The SCAG 2020 RTP/SCS was developed using housing and employment data for 2018 as its base year. This adopted dataset was integrated into RivCoM providing a critical analytic tool to support the Nexus Study Update.
- 2) The RivCoM model¹ has datasets available that represent the capacity of the different facilities in the road network for several different study years. For this nexus update, the RivCoM 2018 base network that was developed following the adoption of the SCAG 2020 RTP was selected as the one most closely resembling current conditions. This network was subsequently reviewed and updated, including a detailed review by WRCOG staff and participating jurisdictions, to identify projects that were completed on the arterial network in the period between 2016 and December 2021. The arterial network was then recoded to reflect the changes to the TUMF Network to create a 2021 Existing Network as the base network for analysis. A second version of the base network was also developed adding only those facilities that had been identified on the 2016 TUMF network that did not currently exist and therefore were not represented by a link(s) in RivCoM. The Supplemental 2021 Existing Network was utilized as the basis for assessing only those projects that did not currently exist on the TUMF Network.
- 3) RivCoM was run using the 2018 socio-economic data (SED) and the 2021 Existing Networks to produce the baseline volumes on the roads in the TUMF Network.
- 4) The baseline volume-to-capacity (V/C) ratio was then determined. The target LOS for TUMF facilities is "D", meaning that facilities with LOS "E" or "F", i.e. those with a V/C ratio of 0.9 or higher, are deemed to have inadequate capacity. The result of this step is a list of roads that have existing capacity deficiencies.

¹ The macro-level traffic forecasting was conducted using the Riverside County Transportation Analysis Model (RivCoM). RivCoM is consistent of SCAG's six-county model with additional detail (traffic analysis zones and local roads) added within Riverside County. It was developed for use in traffic studies in Riverside County as a replacement for the Riverside County Transportation and Analysis Model (RivTAM) integrating an updated modeling platform to improve run time and reliability, as well as a more focused model area, more detailed network and zone structure, and prost processors to satisfy more recent legislative requirements. RivCoM has both the geographic scope needed to analyze all TUMF facilities and conformity with regional planning assumptions. There is a memorandum of understanding among the jurisdictions of Riverside County that encourages the use of the RivCoM model for use in regional traffic studies.

- 5) The SCAG 2020 RTP/SCS was developed using housing and employment data for 2045 as its forecast horizon year. This adopted dataset was also used as the future base year for the TUMF update calculation.
- 6) RivCoM was run using the 2021 Existing Networks with the land use assumptions for 2045. These "Future No-Build" scenarios was used to determine where deficiencies would occur in the roadway system if development occurred as expected but no roadway improvements were implemented.
- 7) Comparing the existing capacity deficiencies with the future deficiencies showed where new deficiencies would occur that are entirely attributable to growth in households and employment. Comparing the existing and future traffic volume to capacity ratio on the roads that are currently deficient shows the portion of the future deficiency that is attributable to growth.
- 8) It is generally acknowledged that the TUMF program cannot and should not attempt to fund every roadway improvement needed in Western Riverside County. WRCOG has adopted a set of selection criteria that was used to choose which roadway improvements would be eligible for TUMF funding.
- 9) The selection criteria were applied to the forecast deficiencies to identify projects for the TUMF Project List. The project list was subsequently reviewed to confirm the eligibility of proposed projects, including projects previously included in the TUMF program, as well as additional projects requested for inclusion as part of the current update. The project list was then subsequently updated to reflect those projects considered eligible for TUMF funding as part of the 2024 Nexus Study Update.

2.3.2. Determine the TUMF Network Project Costs

The estimated costs of proposed improvements on the TUMF Network are calculated based on the prices of construction materials, labor and land values for the various eligible project types included as part of the TUMF program. The approach and outcomes of the following steps is described in **Chapter 4** of this report.

- 10) The TUMF program has design standards covering the road project components that are eligible for TUMF funding. This ensures that projects in jurisdictions with different design standards are treated equally².
- 11) Current cost values for labor and materials such as cement, asphalt, reinforcing steel, etc., as derived from Caltrans cost database, RCTC and other sources, were tabulated and updated to December 2023. Additionally, the ROW cost components per square foot for various land use types were also updated based on current property valuations in Riverside County as researched by Overland, Pacific and Cutler.

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² A jurisdiction may choose to design to a higher standard, but if it does so, TUMF will only fund up to the equivalent of what costs would have been had the TUMF design standards been followed.

- 12) The cost values for the contributing labor, materials and land components were applied to estimated quantities of these components for the various roadway project types that are eligible under TUMF to generate aggregate unit cost values for each project type (road costs per lane-mile, typical costs per arterial-freeway interchange, bridge costs per linear foot, etc.).
- 13) The unit costs from the previous step were then applied to the project list to estimate the costs of the improvements on the TUMF project list.
- 14) The percentage of each project that was attributable to new development was then applied to the costs of TUMF road projects to find the total road project cost that is attributable to new development.

2.3.3. Determine the TUMF Transit Component

A portion of the TUMF funding is made available for transit services that provide an alternative to car travel for medium-to-long distance intra-regional trips. The eligible transit projects and their associated costs are determined using the following steps, with additional explanation provided in **Chapter 4** of this report.

- 15) Actual average weekday daily ridership for Riverside Transit Agency (RTA) transit bus services was tabulated for 2023.
- 16) Forecast average weekday daily ridership for RTA bus transit services was retrieved from the SCAG 2020 RTP/SCS Model for horizon year 2045.
- 17) The growth in ridership between 2023 and 2045 was compared to determine the portion of 2045 average weekday daily ridership that is attributable to existing passengers and the portion attributable to new growth.
- 18) A proposed transit project list was provided by RTA staff and was reviewed to confirm the validity of the project list to establish a final recommended transit project list to be included as part of the program. The result was the TUMF Transit Project List.
- 19) RTA provided information on current costs for the listed transit infrastructure.
- 20) The cost information was then used to determine the cost of the items on the TUMF Transit Project List.
- 21) The percent attribution from Step 17 was applied to the project cost estimates from the previous step to determine the cost of transit improvements that are attributable to new development.
- 22) The costs for road and transit projects that are attributable to new development are then combined along with information on other (non-TUMF) funds to determine the total cost for TUMF projects that is to be cover by new development through the imposition of the fees. The available alternate funding sources were reviewed as part of the Nexus update, specifically including the completion of a detailed review of available federal, state and local funding sources administered by RCTC.

2.3.4. Computing the Fee for Residential Developments

Having determined the total project costs to be covered by new development under the TUMF program, it is necessary to divide these costs among different types of developments roughly in proportion to their expected traffic impacts. The following steps describes the process for determining the proportion attributable to new residential development. The approach for accomplishing these steps along with the findings of this analysis are described in detail in **Chapter 5** and **Chapter 6** of this report.

- California legislation encourages the use of vehicle miles of travel (VMT) as the primary indicator of traffic impacts because it combines the number of vehicle trips and the average length of those trips to reflect the proportional impact to the roadway network. As a result, the methodology for determining the relative distribution of traffic impacts between residential and non-residential uses for the purposes of TUMF utilizes a VMT based approach. The RivCoM 2021 Existing Network and 2045 No-Build model runs were examined to determine the VMT of various trip types that would take place in Western Riverside County (excluding through trips). The results were compared to determine the growth in VMT for each trip type. Per WRCOG policy (based on National Cooperative Highway Research Program (NCHRP) recommended practice) trips originating in or destined for a home are attributed to residential development while trips where neither the origin nor the destination are a home are attributed to non-residential development.
- 24) The SCAG 2020 RTP/SCS socio-economic forecasts were used to estimate the number of single-family and multi-family dwelling units that will be developed during the 2018 to 2045 period.
- 25) The Institute of Transportation Engineers' (ITE's) trip generation rates, which come from surveys of existing sites for various development types, were then used to estimate the daily number of trips that will be generated by future single- and multi-family developments that will occur in the region from 2018 to 2045.
- 26) The cost to be covered by residential development was divided into the portion attributable to new single-family dwellings and portion attributable to new multifamily development to calculate the cost share for each use.
- 27) The cost share for single-family dwellings and multi-family dwellings was divided by the number of dwellings of each type to determine the fee level required from each new dwelling unit to cover their fair share of the cost to mitigate the impacts of new developments.

2.3.5. Computing the Fee for Non-Residential Developments

A process similar to that used for residential units was used to determine the fee level for non-residential development. However, the determination of fees for non-residential development involves additional steps due to the additional complexity of accounting for a greater variety of development types within each use category. **Chapter 5** and **Chapter 6** of this report provide additional explanation regarding the methodology for accomplishing these steps along with the results of this analysis.

- 28) Like many impact fee programs, TUMF groups similar development projects together into general use categories to simplify the administration of the program. TUMF groups the various land use categories found in ITE's <u>Trip Generation Manual</u> into four non-residential categories (industrial, retail, service, and government/public sector) based on the North American Industry Classification System (NAICS), which is also used by the U.S. Census Bureau and SCAG for demographic classifications and is the basis for such classifications in the SCAG Regional Travel Demand Model as well as and the RivCoM model. The ITE trip generation rates for all uses were reviewed for accuracy updated to reflect the most current ITE published rates. The median value for the tripgeneration rates for all uses within each category was used in the nexus study to represent the trip-generation characteristics for the category.
- 29) The trip-generation rates of retail and service uses were adjusted to take into account the share of pass-by trips these uses generate. Pass by trip rates for various retail and service uses were derived from the ITE Irip Generation Manual to determine the median value of all uses as the basis for the adjustment. The ITE pass by trip rates for all uses were reviewed for accuracy and updated to reflect the most current ITE published rates.
- 30) The SCAG 2020 RTP/SCS socio economic forecasts included non-residential employment for 2018 and 2045. These forecasts were used to estimate the growth in employment in each of the four non-residential uses.
- 31) The SCAG employment forecasts are denominated in jobs while development applications are typically denominated in square feet of floorspace. The ratio of floorspace per employee was determined as a median value derived from four studies, including a comprehensive study San Bernardino and Riverside Counties conducted in 1990, an OCTA study conducted in 2001, a SCAG study (including a specific focus on Riverside County) conducted in 2001, and the Riverside County General Plan adopted in 2015.
- 32) The forecast growth in employees was multiplied by the floorspace per employee to produce a forecast of the floorspace that will be developed for each of the four non-residential use types.
- 33) The trip-generation rate for each of the four uses was multiplied by the forecast of new floorspace to estimate the number of trips generated by each use.
- 34) The amount of project costs to be covered by non-residential development was split between the four non-residential uses to determine the TUMF cost share for each.
- 35) The TUMF cost share for each of the four non-residential uses was divided by the forecast growth in floorspace to determine the fee level required from each new square foot of non-residential development to cover their fair share of the cost to mitigate the impacts of new developments.
- 36) WRCOG has adopted a TUMF Fee Calculation Handbook that allows for fee adjustments to be made to account for unusual circumstances for certain types of residential and non-residential development (fuel filling stations, golf courses, high-cube warehouses, wineries, electric charging stations, etc.) These

adjustments are intended to calculate a fairer proportional fee based on the unique trip generation characteristics of these development types.

The outcome of this process is a schedule of fees for the various use categories identified as part of the TUMF program. The study conclusions including the Schedule of Fees is presented in **Chapter 7** of this report. The schedule of fees represents the **maximum** fee permissible under California law for the purposes of the TUMF program. The WRCOG Executive Committee has the option to adopt lower fees, however, in doing so each use category subject to a lower fee would not be contributing a fair share of the cost of their impacts. This would in turn create a funding gap for the program that would necessitate identifying additional project funding from some other source to ensure the cumulative regional impacts of new development are being mitigated fully in accordance with the program.

2.0 FUTURE GROWTH

2.1 Recent Historical Trend

Western Riverside County experienced robust growth in the period from the late 1990's to the mid 2000's. The results of Census 2000 indicate that in the year 2000, Western Riverside County had a population of 1.187 million representing a 30% increase (or 2.7% average annual increase) from the 1990 population of 912,000. Total employment in Western Riverside County in 2000 was estimated by the SCAG to be 381,000 representing a 46% increase (or 3.9% average annual increase) over the 1990 employment of 261,000.

Despite the impacts of the Great Recession and the associated residential mortgage and foreclosure crisis, and more recently with the shifting of population during and following the COVID-19 pandemic, Western Riverside County has continued to grow due to the availability of relatively affordable residential and commercial property, and a generally well-educated workforce. By 2010, the population of the region had grown to 1.742 million, a further 47% growth in population from 2000. Similarly, total employment in the region had also grown from 2000 to 2010 with 434,000 employees estimated to be working in Western Riverside County. This represents a 12% increase from the 381,000 employees working in the region in 2000.

2.2 Available Demographic Data

A variety of alternate demographic information that quantifies future population, household and employment growth is available for Western Riverside County. For earlier versions of the TUMF Nexus Study, the primary available source of consolidated demographic information for Western Riverside County was provided by SCAG. SCAG is the largest of nearly 700 Councils of Government (COG) in the United States and functions as the Metropolitan Planning Organization (MPO) for six counties in Southern California including Los Angeles, Orange, San Bernardino, Riverside, Ventura and Imperial. SCAG is mandated by the federal government to research and plan for issues of regional significance including transportation and growth management. As part of these responsibilities, SCAG maintains a comprehensive database of regional socioeconomic data and develops demographic projections and travel demand forecasts for Southern California.

In preparation for the 2020 RTP/SCS, SCAG undertook robust stakeholder engagement, including participation by WRCOG, Riverside County and the various cities in Western Riverside County, to develop regional demographic forecasts. Using input from regional stakeholders regarding anticipated patterns and rates of development, SCAG compiled and disseminated the forecasts that were ultimately adopted in 2020, including those specific to Western Riverside County. The SCAG forecasts adopted for the 2020 RTP/SCS were subsequently used as the basis for RivCoM and are used as the basis for this TUMF Nexus Study Update.

2.3 Demographic Assumptions Used for the Nexus Study Analysis

A major distinction between data used for the TUMF Nexus Study 2016 Update and the SCAG 2020 RTP/SCS data used for this 2024 Update is the change in the base year from 2012 to 2018, as well as the change in the horizon year from 2040 to 2045. This shift in the base year and horizon year demographic assumptions of the program carries through all aspects of the nexus analysis, including the travel demand forecasting, network review and fee calculation.

The SCAG 2020 RTP/SCS data were compared to the 2016 RTP/SCS data used in the TUMF Nexus Study 2016 Update. As can be seen in Table 2.1 and Figure 2.1, the 2018 data reflects an increase in population and single-family households, and a very slight decline in multi-family households. Employment grew substantially overall, with significant growth in industrial employment, largely attributable to the rapid expansion of warehousing and logistics facilities in Western Riverside County. In contrast, there was a notable decline in government and public sector employment in the region from 2012 to 2018

Table 2.1 - Base Year Socioeconomic Estimates for Western Riverside County

SED Type	2016 Update (2012)	2024 Update (2018)	Change	Percent
Total Population	1,773,935	1,905,440	131,505	7%
Total Households	525,149	554,573	29,424	6 %
Single-Family	366,588	397,407	30,819	8%
Multi-Family	158,561	157,166	-1,395	-1%
Total Employment	460,787	570,420	109,633	24%
Industrial	120,736	169,334	48,598	40%
Retail	65,888	73,814	7,926	12%
Service	253,372	308,703	55,331	22%
Government/Public Sector	20,791	18,569	-2,222	-11%

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Source: SCAG 2016 RTP/SCS; SCAG 2020 RTP/SCS

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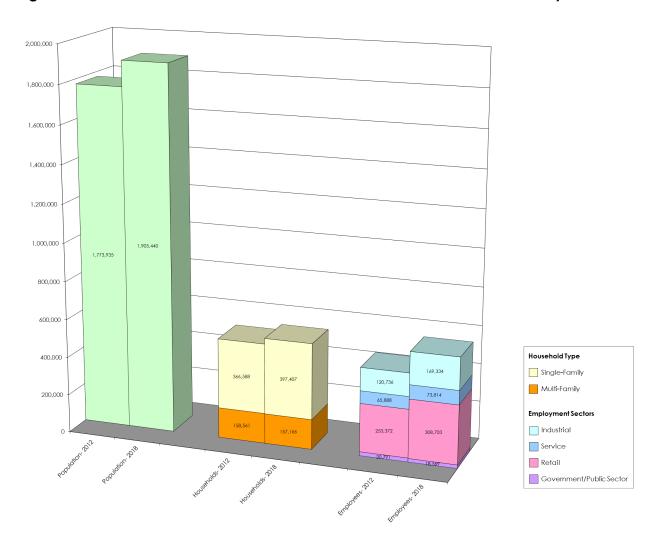


Figure 2.1 – Base Year Socioeconomic Estimates for Western Riverside County

Table 2.2 and **Figure 2.2** compare the socioeconomic forecasts for the program horizon year of 2045 used in the TUMF Nexus Study 2016 Update and 2045 for this study. The most recent forecasts reflect an increase in the horizon year population and households, and a decrease in overall employment in Western Riverside County. The change in employment was not, however, consistent across sectors. The retail employment forecast has decreased approximately 15% from 2040 to 2045, while the industrial employment forecast has increased over 20%. This shift is consistent with the emergence of e-commerce as an alternative to traditional "brick and mortar" retail.

Table 2.2 - Horizon Year Socioeconomic Estimates for Western Riverside County

SED Type	2016 Update (2040)	2024 Update (2045)	Change	Percent
Total Population	2,429,633	2,533,876	104,243	4%
Total Households	775,231	812,399	37,168	5%
Single-Family	539,631	564,898	25,267	5%
Multi-Family	235,600	247,501	11,901	5%
Total Employment	861,455	846,442	-15,013	-2%
TUMF Industrial	201,328	245,915	44,587	22%
TUMF Retail	101,729	86,929	-14,800	-15%
TUMF Service	528,092	482,958	-45,134	-9%
TUMF Government/Public Sector	30,306	30,640	334	1%

Source: SCAG 2016 RTP/SCS; SCAG 2020 RTP/SCS

Figure 2.2 - Horizon Year Socioeconomic Estimates for Western Riverside County

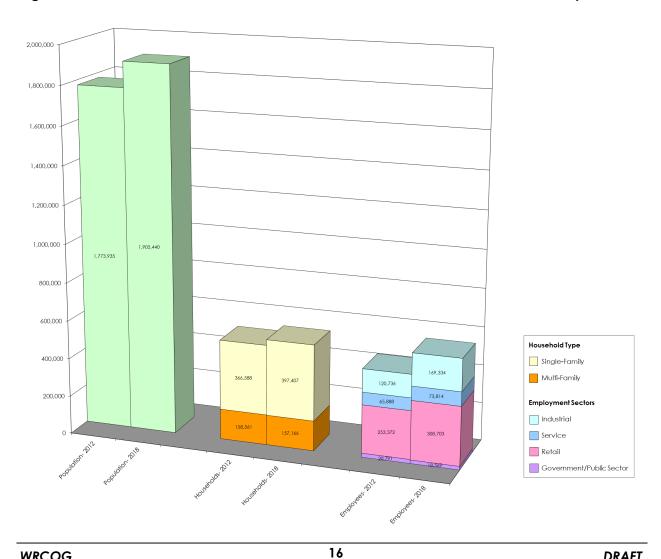


Table 2.3 and Figure 2.3 summarize the socioeconomic data obtained from SCAG and used as the basis for completing this Nexus Study analysis. The SCAG employment data for 2018 and 2045 was provided for thirteen employment sectors consistent with the California Employment Development Department (EDD) Major Groups including: Farming, Natural Resources and Mining; Construction; Manufacturing; Wholesale Trade; Retail Trade; Transportation, Warehousing and Utilities; Information; Financial Activities; Professional and Business Service; Education and Health Service; Leisure and Hospitality; Other Service; and Government. For the purposes of the Nexus Study, the EDD Major Groups were aggregated to Industrial (Farming, Natural Resources and Mining; Construction; Manufacturing; Wholesale Trade; Transportation, Warehousing and Utilities), Retail (Retail Trade), Service (Information; Financial Activities; Professional and Business Service; Education and Health Service; Leisure and Hospitality; Other Service) and Government/Public Sector (Government). These four aggregated sector types were used as the basis for calculating the fee as described in Section 6.2. Appendix B provides a table detailing the EDD Major Groups and corresponding North American Industry Classification System (NAICS) Categories that are included in each nonresidential sector type.

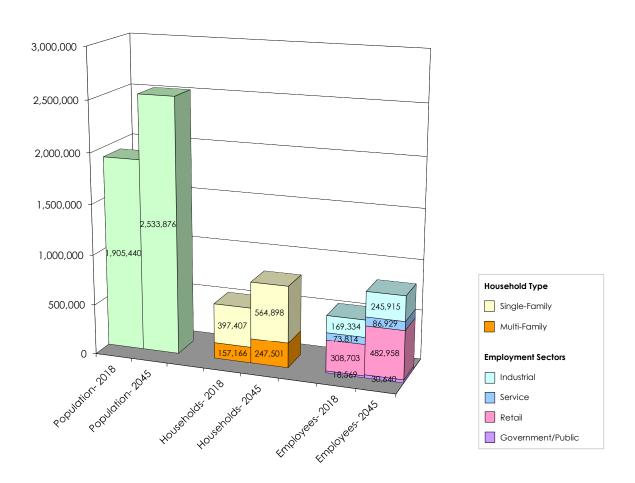
Table 2.3 - Population, Households and Employment in Western Riverside County (2018 to 2045)

SED Type	2018	2045	Change	Percent
Total Population	1,905,440	2,533,876	628,436	33%
Total Households	554,573	812,399	257,826	46%
Single-Family	397,407	564,898	167,491	42%
Multi-Family	157,166	247,501	90,335	57%
Total Employment	570,420	846,442	276,022	48%
TUMF Industrial	169,334	245,915	76,581	45%
TUMF Retail	73,814	86,929	13,115	18%
TUMF Service	308,703	482,958	174,255	56%
TUMF Government/Public Sector	18,569	30,640	12,071	65%

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Source: SCAG 2020 RTP/SCS

Figure 2.3 - Population, Households and Employment in Western Riverside County (2018 to 2045)



The combined effects of the changes in the base year and horizon year socioeconomic data are modest reductions in the total growth in population and single-family households, but a notable increase in multi-family households. The change in total employment is reduced by 31%, with the most significant reduction in employment growth in the retail sector (-63%), while the industrial sector saw only a slight reduction in total employment growth compared to the 2016 Nexus Update (5%). The Government/public sector employment growth has increased by 27% from the 2016 Nexus Study to the 2024 Nexus Study, although the total number of jobs increased is relatively small as a share of the total employment. Table 2.4 and Figure 2.4 provide a comparison of the changes in population, households and employment between the 2016 Nexus Update and the 2024 Nexus Update. The table and figure clearly illustrate the reduction in the rate of growth in Western Riverside County largely attributable to the effects of the economic recession. This reduced rate of growth in the region will serve as the basis for reevaluating the level of impact of new development on the transportation system in the next section, as well as providing the basis for the determination of the fair share fee for each land use type.

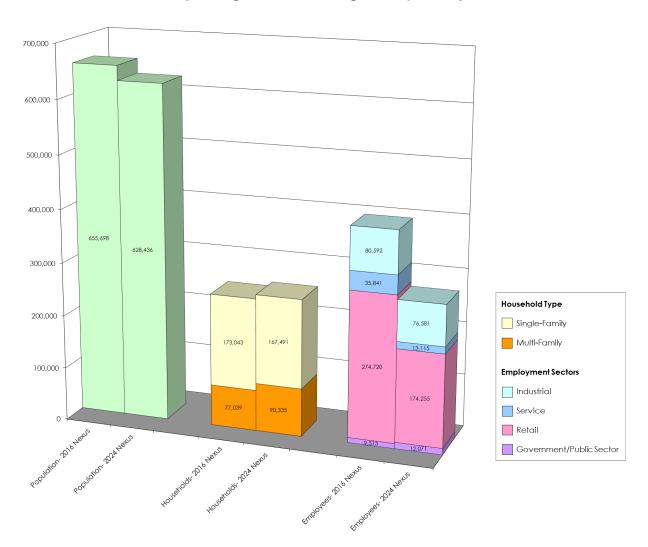
transportation system in the next section, as well as providing the basis for the determination of the fair share fee for each land use type.

Table 2.4 - Population, Households and Employment in Western Riverside County (Existing to Future Change Comparison)

SED Type	2016 Update (2012-2040)	2024 Update (2018-2045)	Difference	Percent
Total Population	655,698	628,436	-27,262	-4%
Total Households	250,082	257,826	7,744	3%
Single-Family	173,043	167,491	-5,552	-3%
Multi-Family	77,039	90,335	13,296	17%
Total Employment	400,668	276,022	-124,646	-31%
TUMF Industrial	80,592	76,581	-4,011	-5%
TUMF Retail	35,841	13,115	-22,726	-63%
TUMF Service	274,720	174,255	-100,465	-37%
TUMF Government/Public Sector	9,515	12,071	2,556	27%

Source: SCAG 2016 RTP/SCS; SCAG 2020 RTP/SCS

Figure 2.4 - Population, Households and Employment in Western Riverside County (Existing to Future Change Comparison)



3.0 NEED FOR THE TUMF

All new developments have some effect on the transportation infrastructure in a community, city or county due to an increase in travel demand. Increasing usage of the transportation facilities leads to more traffic, progressively increasing VMT, traffic congestion and decreasing the level of service (LOS)³. To meet the increased travel demand and keep traffic flowing, improvements to transportation facilities become necessary to sustain pre-development traffic conditions.

The projected growth in Western Riverside County (33% growth in population and 48% growth in employment in 27 years) and the related growth in VMT can be expected to increase congestion and degrade mobility if substantial investments are not made in the transportation infrastructure. This challenge is especially critical for arterial highways and roadways that carry a significant number of the trips between cities, since traditional sources of transportation improvement funding (such as the gasoline tax and local general funds) will not be nearly sufficient to fund the improvements needed to serve new development. Development exactions generally provide only a fraction of the improvements with those being confined to the area immediately adjacent to the respective development, and the broad-based county-level funding sources (i.e., Riverside County's half-cent sales tax known as Measure A) designate only a small portion of their revenues for arterial roadway improvements.

This section documents the existing and future congestion levels that demonstrate the need for future improvements to the transportation system to specifically mitigate the cumulative regional transportation impacts of new development. It then describes the TUMF concept that has been developed to fund future new developments' fair share of needed improvements.

The forecast of future congestion levels is derived from Year 2045 No-Build travel demand forecasts for Western Riverside County developed using RivCoM. The Year 2045 No-Build scenario evaluates the effects of 2045 population, employment and resultant traffic generation on the 2021 existing arterial highway network.

3.1 Future Highway Congestion Levels

To support the evaluation of the cumulative regional impacts of new development on the existing arterial highway system in Western Riverside County, existing (2018) and future (2045) SED were modeled on the existing (2021) arterial highway network using RivCoM. To quantify traffic growth impacts, various traffic measures of effectiveness were calculated for the AM and PM peak periods for each of the two scenarios. The

³ The <u>Highway Capacity Manual 6th Edition – A Guide for Multimodal Mobility Analysis</u> (Transportation Research Board, National Academy of Sciences, Washington, D.C., 2016, Volume 1 – Concepts, pp 5-3) describes LOS as a "quantitative stratification of performance measure or measures representing quality of service....HCM defines six levels of service, ranging from A to F, for each service measure or combination of measures. LOS A represents the best operating conditions from the traveler's perspective and LOS F the worst."

WRCOG TUMF study area was extracted from the greater regional model network for the purpose of calculating measures for Western Riverside County only. Peak period performance measures for the Western Riverside County TUMF study area included total VMT, total vehicle hours of travel (VHT), total combined vehicle hours of delay (VHD), and total VMT experiencing unacceptable level of service (LOS E). These results were tabulated in **Table 3.1**. Plots of the Network Extents are attached in **Appendix C**.

Total Arterial VMT, VHD and LOS E Threshold VMT were calculated to include all principal arterials, minor arterials and major connectors, respectively. Regional values for each threshold were calculated for a total of all facilities including arterials, freeways, freeway ramps and High-Occupancy Vehicle (HOV) lanes.

Table 3.1 - Regional Highway System Measures of Performance (2018 Existing to 2045 No-Build)

	Peak Periods (Total)				
Measure of Performance*	2018 Existing	2045 No-Build	% Change	% Annual	
VMT - Total ALL FACILITIES	23,284,724	29,897,254	28%	0.9%	
VMT - FREEWAYS	13,514,522	15,490,284	15%	0.5%	
VMT - ALL ARTERIALS	9,770,202	14,406,970	47%	1.4%	
TOTAL - TUMF ARTERIAL VMT	6,216,985	8,597,200	38%	1.2%	
VHT - TOTAL ALL FACILITIES	541,350	915,439	69%	2.0%	
VHT - FREEWAYS	263,792	399,128	51%	1.5%	
VHT - ALL ARTERIALS	277,558	516,311	86%	2.3%	
TOTAL TUMF ARTERIAL VHT	174,455	320,869	84%	2.3%	
VHD - TOTAL ALL FACILITIES	108,900	338,056	210%	4.3%	
VHD - FREEWAYS	66,156	170,649	158%	3.6%	
VHD - ALL ARTERIALS	42,745	167,407	292%	5.2%	
TOTAL TUMF ARTERIAL VHD	33,249	124,863	276%	5.0%	
VMT LOS E - TOTAL ALL FACILITIES	5,605,070	13,369,483	139%	3.3%	
VMT LOS E - FREEWAYS	4,725,471	9,316,891	97%	2.5%	
VMT LOS E & F - ALL ARTERIALS	879,599	4,052,592	361%	5.8%	
TOTAL TUMF ARTERIAL VMT w/ LOS E or worse	765,782	3,184,133	316%	5.4%	
% of TUMF ARTERIAL VMT w/ LOS E or worse	12%	37%			

^{*} Based on RivCoM 2018 base network and SCAG 2020 RTP/SCS SED with updated 2021 arterial network as existing in December 2021

NOTES:

Volume is adjusted by PCE factor

VMT = vehicle miles of travel (the total combined distance that all vehicles travel on the system)

VHT = vehicle hours of travel (the total combined time that all vehicles are traveling on the system)

VHD = vehicle hours of delay (the total combined time that all vehicles have been delayed on the system based on the difference between forecast travel time and free-flow (ideal) travel time)

LOS = level of service (based on forecast volume to capacity ratios).

LOS E or Worse was determined by V/C ratio that exceeds 0.9 thresholds as indicated in the Riverside County General Plan.

The following formulas were used to calculate the respective values:

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VMT = Link Distance * Total Daily Volume
VHT = Average Loaded (Congested) Link Travel Time * Total Daily Volume
VHD = VHT – (Free-flow (Uncongested) Link Travel Time * Total Daily Volume)
VMT LOS E or F = VMT (on links where Daily V/C exceeded 0.90)
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Note: Volume to capacity (v/c) ratio thresholds for LOS E are based on the Transportation Research Board 2010 Edition of the <u>Highway Capacity Manual</u> (HCM 2010) LOS Maximum V/C Criteria for Multilane Highways with 45 mph Free Flow Speed (Exhibit 14-5, Chapter 14, Page 14-5).

The calculated values were compared to assess the total change between 2018 Existing and 2045 No-Build scenarios, and the average annual change between 2018 Existing and 2044 No-Build. As can be seen from the RivCoM outputs summarized in Table 3.1, the additional traffic generated by new development will cause peak period VMT on the arterial highway network to increase by approximately 47% by the year 2045 (approximately 1.4% per year). In the absence of additional improvements to the transportation network in Western Riverside County, the growth in VMT will cause congestion on the highway system to increase almost exponentially, with the most significant increase in congestion observed on the arterial highway system that includes the TUMF Network. Many facilities will experience a significant increase in vehicle delay and deterioration in LOS to unacceptable levels because of new development and the associated growth in traffic. According to the Highway Capacity Manual 6th Edition – A Guide for Multimodal Mobility Analysis (Transportation Research Board, National Academy of Sciences, Washington, D.C., 2016), "LOS E describes operation at or near capacity. Operations...at this level are highly volatile because there are virtually no usable gaps within the traffic stream, leaving little room to maneuver within the traffic stream. Any disruption to the traffic stream, such as vehicles entering...or a vehicle changing lanes, can establish a disruption wave that propagates throughout the upstream traffic stream....the physical and psychological comfort afforded drivers is poor."

The <u>Congestion Management Program for Riverside County</u> (CMP) published by the Riverside County Transportation Commission (RCTC) in 2011 designates LOS E as the "traffic standards must be set no lower than LOS E for any segment or intersection along the CMP System of Highways and Roadways" in Riverside County. "The intent of the CMP is to more directly link land use, transportation, and air quality, thereby prompting reasonable growth management programs that will effectively utilize new transportation funds, alleviate traffic congestion and related impacts, and improve air quality." ⁴ The CMP provides a mechanism for monitoring congestion on the highway system and, where congestion is observed, establishes procedures for developing a deficiency plan to address improvement needs. The reactive nature of the CMP to identify and remediate existing congestion differs from the proactive nature of the TUMF program to anticipate and provide for future traffic needs. For this reason, the TUMF

⁴ Congestion Management Program for Riverside County – Executive Summary (Riverside County Transportation Commission, 2011) Page ES-3, ES-1

program follows the guidance of the <u>Highway Capacity Manual</u> in establishing LOS E as the threshold for unacceptable level of service, and subsequently as the basis for measuring system performance and accounting for existing needs. This approach ensures a more conservative accounting of existing system needs as part of the determination of the "fair share" of mitigating the cumulative regional impacts of future new development on the transportation system.

The continuing need for a mitigation fee on new development is shown by the adverse impact that new development will have on Western Riverside County's transportation infrastructure, and particularly the arterial highway network. As a result of the new development and associated growth in population and employment in Western Riverside County, additional pressure will be placed on the transportation infrastructure with the total peak period VMT on the Western Riverside County Regional System of Highways and Arterials (RSHA; also referred to as the TUMF Network) estimated to increase by approximately 38% or 1.2% compounded annually.

As shown in **Table 3.1**, the peak period VMT on arterial facilities within the TUMF Network experiencing LOS E or worse will increase by approximately 316% or 5.4% compounded annually in Western Riverside County in the period between 2018 and 2045. By 2045, 37% of the total VMT on the TUMF arterial highway system is forecast to be traveling on facilities experiencing daily LOS E or worse. Without improvements to the TUMF arterial highway system, the total vehicle hours of delay (VHD) experienced by area motorists on TUMF arterial highways during the peak periods will increase by approximately 5.0% per year. The combined influences of increased travel demand and worsened LOS that manifest themselves in severe congestion and delay highlighting the continuing need to complete substantial capacity expansion on the TUMF arterial highway system to mitigate the cumulative regional impact of increased travel demand resulting from new development.

The RivCoM outputs summarized in **Table 3.1** clearly demonstrate that the travel demands generated by future new development in the region will lead to increasing levels of traffic congestion, especially on the arterial roadways. The need to improve these roadways to accommodate the anticipated growth in VMT and relieve future congestion is therefore directly linked to the future development which generates the additional travel demand.

3.2 Future Transit Utilization Levels

In addition to the roadway network, public transportation will play a role in serving future travel demand in the region. Transit represents a critical component of the transportation system by providing an alternative mode choice for those not wanting to use an automobile, and particularly for those who do not readily have access to an automobile. As population and employment in Western Riverside County grows because of new development, demand for regional transit services in the region is also expected to grow.

While some future transit trips will be accommodated by inter-regional transit services such as Metrolink, a substantial number of the trips within Western Riverside County will be served by bus transit services and for this reason the provision of regional bus transit service is considered integral to addressing the cumulative regional transportation impacts of new developments. Regional bus transit services within Western Riverside County are primarily provided by RTA.

In 2023, RTA reported average weekday daily ridership of 16,575 on their network of buses⁵. The SCAG 2020 RTP/SCS forecasts for RTA average weekday daily ridership in 2045 is 57,282. These values were used to represent the existing and future transit trips consistent with the analysis of highway trips described in **Section 3.1**. The existing and future transit ridership were compared to assess the impact of new development on transit demand. Average weekday daily ridership would be expected to grow by 40,707 between 2023 and 2045, or an average increase of 1,850 weekday daily riders each year. Average weekday daily system ridership is summarized in **Appendix D**.

The future growth in demand for public transit services is reflective of the cumulative regional impacts of new development, and the associated increase in demand for all types of transportation infrastructure and services to accommodate this growth. Furthermore, bus transit ridership is expected to grow as the improved services being planned and implemented by RTA attract new riders and encourages existing riders to use transit more often as an alternative to driving. Attracting additional riders to bus transit services contributes to the mitigation of the cumulative regional transportation impacts of new development by reducing the number of trips that need to be served on the highway system. The need to provide additional bus transit services within Western Riverside County to satisfy this future demand is therefore directly linked to the future development that generates the demand.

3.3 The TUMF Concept

A sizable percentage of trip-making for any given local community extends beyond the bounds of the individual community as residents pursue employment, education, shopping and entertainment opportunities elsewhere. As new development occurs within a particular local community, this dispersal of trips of all purposes by new residents and the new business that serve them generates additional travel demand and contributes to the need for transportation improvements within their community and in the other communities of Western Riverside County. The idea behind a uniform mitigation fee is to have new development throughout the region contribute uniformly to paying the fair share cost of improving the transportation facilities that serve these trips between communities. Thus, the fee is intended to be used primarily to improve

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⁵ RTA, like most public transportation agencies, have seen significant short-term declines in transit ridership resulting from changes in travel demands, mode choice and trip distribution following the COVID-19 pandemic. RTA's 2016 actual average weekday daily ridership was 30,700. Post COVID-19, the RTA actual average weekday daily ridership in 2023 was 16,575, a decline of almost 50% of pre-pandemic ridership levels. These levels would be expected to continue to recover toward pre-pandemic levels as potential riders resume more regular work schedules, and apprehension toward the use of transit services for public health reasons wane.

transportation facilities that serve trips between communities within the region (in particular, arterial roadways and regional bus transit services).

Some roadways serve trips between adjacent communities, while some also serve trips between more distant communities within the region. The differing roadway functions led to the concept of using a portion of the fee revenues for a backbone system of arterial roadways that serve the longer-distance trips (i.e. using TUMF revenues from the entire region), while using a second portion of the fee revenues for a secondary system of arterials that serve inter-community trips within a specific subregion or zone (i.e. using TUMF revenues from the communities most directly served by these roads – to some extent, a return-to-source of that portion of the funds). Reflecting the importance of public transit to provide an alternative to highway travel as part of a balanced regional transportation strategy, a third portion of fee revenues was reserved for improvements to regional bus transit services (i.e. using TUMF revenues from the entire region).

Much, but not all, of the new trip-making in each area is generated by residential development (i.e. when people move into new homes, they create new trips on the transportation system as they travel to work, school, shopping or entertainment). Some of the new trips are generated simply by activities associated with new businesses (i.e. new businesses will create new trips through the delivery of goods and services, etc.). Apart from commute trips by residents coming to and from work, and the trips of residents coming to and from new businesses to get goods and services, the travel demands of new businesses are not considered to be directly attributable to residential development. The consideration of different sources of new travel demand is therefore reflected in the concept of assessing both residential and non-residential development for their related transportation impacts.

In summary, the TUMF concept includes the following:

- A uniform fee that is levied on new development throughout Western Riverside County.
- > The fee is assessed roughly proportionately on new residential and non-residential development based on the relative impact of each new use on the transportation system.
- A portion of the fee is used to fund capacity improvements on a backbone system of arterial roadways that serve longer-distance trips within the region; a portion of the fee is returned to the subregion or zone in which it was generated to fund capacity improvements on a secondary system of arterial roadways that link the communities in that area; and a portion of the fee is used to fund improvements to regional bus transit services that serve trips between the communities within the region.

4.0 THE TUMF NETWORK

4.1 Identification of the TUMF Roadway Network

An integral element of the initial Nexus Study was the designation of the Western Riverside County Regional System of Highways and Arterials. This network of regionally significant highways represents those arterial and collector highway and roadway facilities that primarily support inter-community trips in Western Riverside County and supplement the regional freeway system. As a result, this system also represents the extents of the network of highways and roadways that would be eligible for TUMF funded improvements. The TUMF Network does **not** include the freeways of Western Riverside County as these facilities primarily serve longer distance inter-regional trips and a significant number of pass-through trips that have no origin or destination in Western Riverside County⁶.

The TUMF Network is the system of roadways that serve inter-community trips within Western Riverside County and therefore are eligible for improvement funding with TUMF funds. The RSHA for Western Riverside County was identified based on several transportation network and performance guidelines as follows:

- 1. Arterial highway facilities proposed to have a minimum of four lanes at ultimate build-out (not including freeways).
- 2. Facilities that serve multiple jurisdictions and/or provide connectivity between communities both within and adjoining Western Riverside County.
- 3. Facilities with forecast traffic volumes exceeding 20,000 vehicles per day in the future horizon year.
- 4. Facilities with forecast volume to capacity ratio of 0.90 (LOS E) or greater in the future horizon year.
- 5. Facilities that accommodate regional fixed route transit services.
- 6. Facilities that provide direct access to major commercial, industrial, institutional, recreational or tourist activity centers, and multi-modal transportation facilities (such as airports, railway terminals and transit centers).

Appendix E includes exhibits illustrating the various performance measures assessed during the definition of the RSHA.

Transportation facilities in Western Riverside County that generally satisfied these guidelines were initially identified, and a skeletal regional transportation framework evolved from facilities where several guidelines were observed. Representatives of all WRCOG constituent jurisdictions reviewed this framework in the context of current local transportation plans to define the TUMF Network, which was subsequently endorsed by

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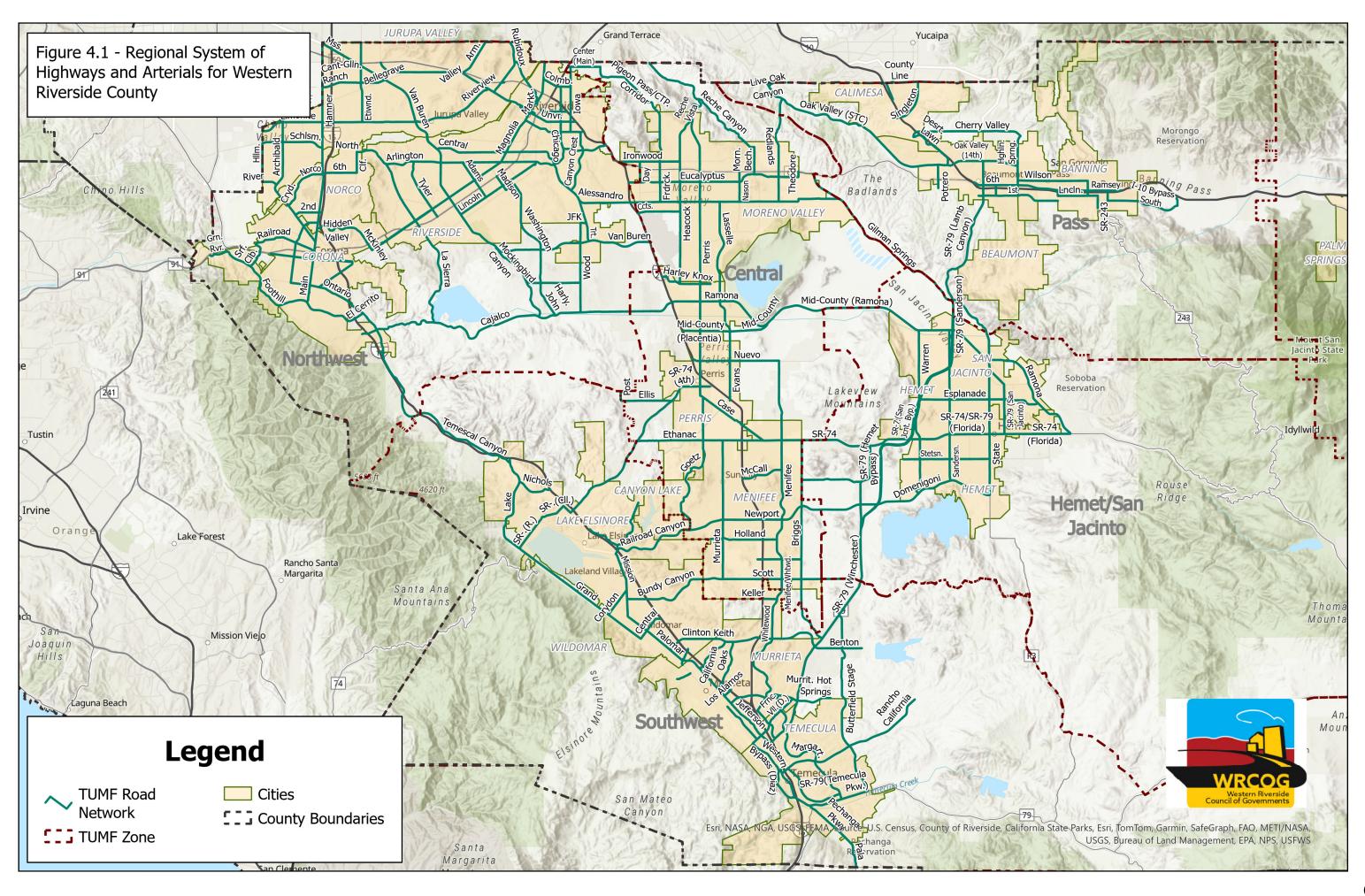
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⁶ Since pass-through trips have no origin or destination in Western Riverside County, new development within Western Riverside County cannot be considered responsible for mitigating the impacts of pass-through trips. The impact of pass-through trips and the associated cost to mitigate the impact of pass-through trips (and other inter-regional freeway trips) is addressed in the Riverside County Transportation Commission (RCTC) Western Riverside County Freeway Strategic Plan, Phase II – Detailed Evaluation and Impact Fee Nexus Determination, Final Report dated May 31, 2008.

the WRCOG Public Works Committee, WRCOG Technical Advisory Committee, TUMF Policy Committee and the WRCOG Executive Committee.

The RSHA is illustrated in **Figure 4.1**. As stated previously, the RSHA represents those regional significant highway facilities that primarily serve inter-community trips in Western Riverside County and therefore also represents the extents of the network of highways and roadways that would be eligible for TUMF funded improvements.

The TUMF Network was reviewed as part of the 2024 Nexus Update to ensure facilities generally still met the previously described performance guidelines, and/or that the scope and magnitude of specific improvements to the TUMF Network were roughly proportional to the impacts needing to be mitigated. This review process resulted in the removal of various facilities from the TUMF Network, as well as various changes in the scope and magnitude of specific improvements to the TUMF Network. The resulting TUMF Network used as the basis for this Nexus Update is discussed in **Section 4.3** of this report.



4.2 Backbone Network and Secondary Network

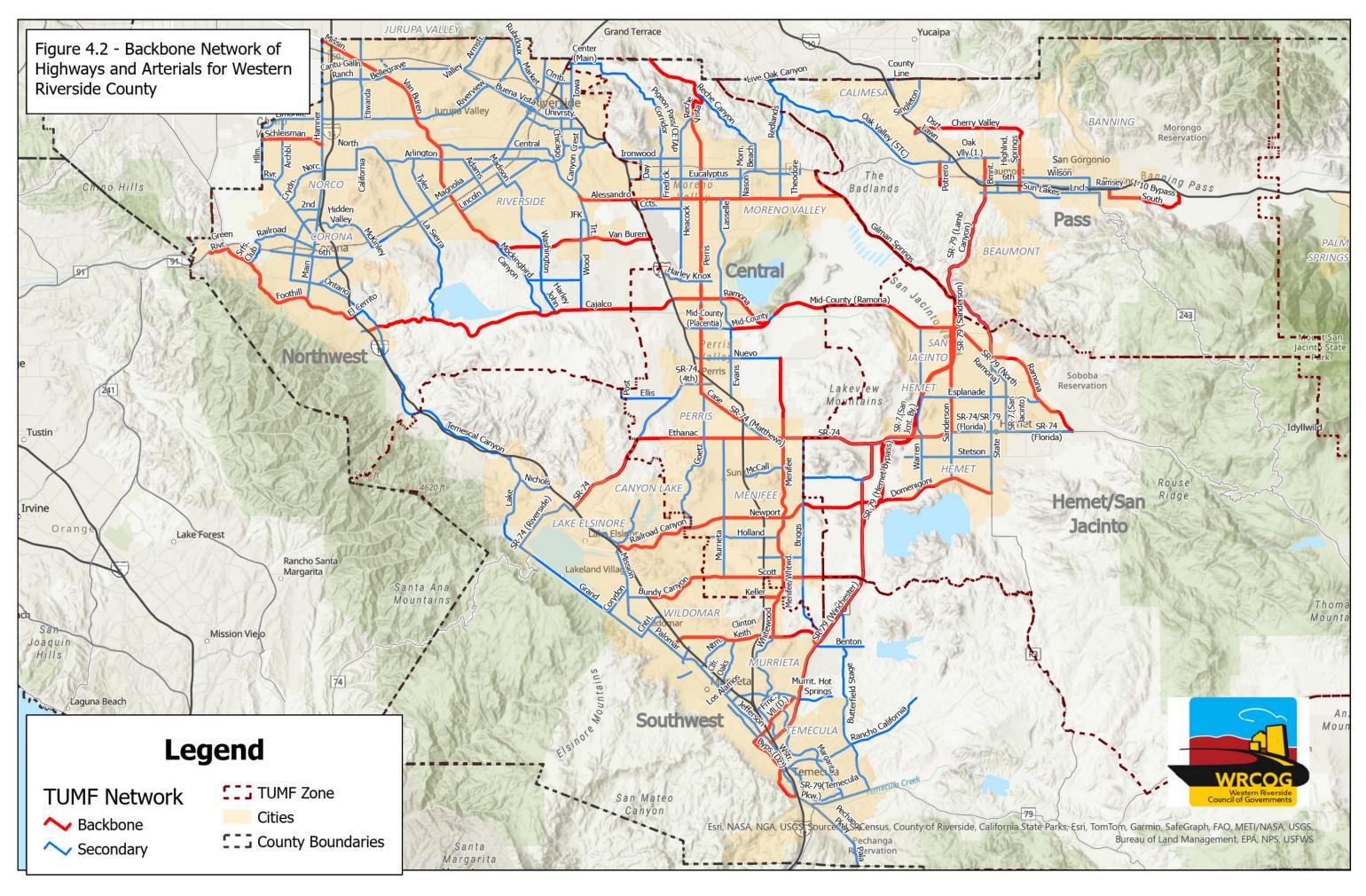
As indicated previously, the TUMF roadway network was refined to distinguish between facilities of "Regional Significance" and facilities of "Zonal Significance." Facilities of Regional Significance were identified as those that typically are proposed to have a minimum of six lanes at general plan build-out⁷, extend across and/or between multiple Area Planning Districts⁸, and are forecast to carry at least 25,000 vehicles per day in 2045. The Facilities of Regional Significance have been identified as the "backbone" highway network for Western Riverside County. A portion of the TUMF fee is specifically designated for improvement projects on the backbone system. The backbone network is illustrated in **Figure 4.2**.

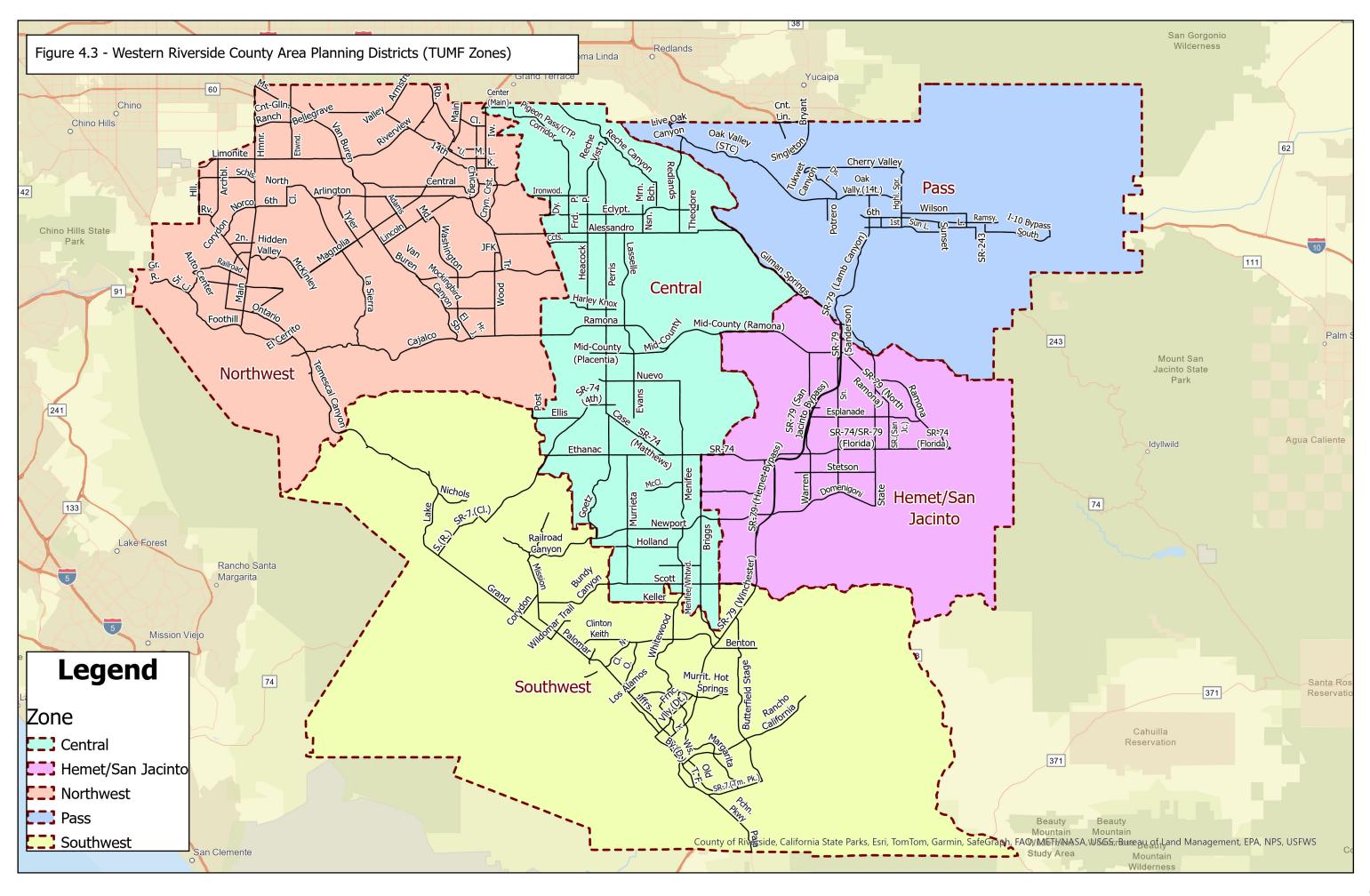
Facilities of Zonal Significance (the "secondary" network) represent the balance of the RSHA for Western Riverside County. These facilities are typically within one zone and carry comparatively lesser traffic volumes than the backbone highway network, although they are considered significant for circulation within the respective zone. A portion of the TUMF is specifically designated for improvement projects on the secondary network within the zone in which it is collected. The WRCOG APD or zones are illustrated in **Figure 4.3**.

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⁷ Although facilities were identified based on the minimum number of lanes anticipated at general plan buildout, in some cases it was determined that there was not sufficient demand for all additional lanes on some facilities until beyond the current timeframe of the TUMF Program (2045). As a result, only a portion of the additional lanes on these facilities have currently been identified for funding with TUMF revenues, reflecting the cumulative impact of new development through the current duration of the TUMF Program.

⁸ Area Planning Districts (APD) are the five aggregations of communities used for regional planning functions within the WRCOG area. Area Planning Districts are interchangeably referred to as TUMF Zones.





4.3 Future Roadway Transportation Needs

To calculate a "fair share" fee for new development, it is necessary to estimate the cost of improvements on the TUMF system that will be needed to mitigate the cumulative regional impacts of future transportation demands created by new development. Estimates of the cost to improve the network to mitigate the cumulative impacts of new development were originally developed based on unit costs prepared for the Coachella Valley Association of Governments (CVAG) Regional Arterial Cost Estimate (RACE), and the WRCOG Southwest District SATISFY 2020 Summary of Cost Estimates (TKC/WRCOG 2000). The RACE cost estimates were developed based on a summary of actual construction costs for projects constructed in Riverside County in 1998.

The initial unit cost estimates for the TUMF (based on inflated RACE cost estimates) were reviewed in the context of the SATISFY 2020 Draft Cost Estimates and were consolidated to provide typical improvement costs for each eligible improvement type. The refinement of unit costs was completed to simplify the process of estimating the cost to improve the entire TUMF network. Based on RACE and SATISFY 2020, consolidated cost estimates included typical per mile or lump sum costs for each of the improvement types eligible under the TUMF Program. The resultant revised unit cost estimates were used as the basis for estimating the cost to complete the necessary improvements to the TUMF network to mitigate the cumulative regional transportation impacts of new development.

Variations in the consolidated cost estimates for specific improvement types were provided to reflect differences in topography and land use across the region. Unit costs for roadway construction were originally varied to account for variations in construction cost (in particular, roadway excavation and embankment cost) associated with construction on level (code 1) rolling (code 2) and mountainous (code 3) terrain, respectively. Right-of-way acquisition costs which originally included consideration for land acquisition, documentation and legal fees, relocation and demolition costs, condemnation compensation requirements, utility relocation, and environmental mitigation costs were also varied to account for variations in right-of-way costs associated with urban (developed commercial/residential mixed uses – code 1), suburban (developed residential uses – code 2) and rural (undeveloped uses – code 3) land uses, respectively. Lump sum costs for interchange improvements were originally varied to account for variations in cost associated with new complex, new standard (or fully reconstructed), or major (or partially reconstructed) or minor (individual ramp improvements) interchange improvements.

As part of the 2024 TUMF Nexus Update, the original unit cost categories were revised to generate entirely new unit cost values based on the most recent available construction cost, labor cost and land acquisition cost values for comparable projects within Riverside County. The recalculation of the TUMF unit cost components was completed

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⁹ Parsons Brinckerhoff/Coachella Valley Association of Governments, 1999, <u>Regional Arterial Cost Estimate</u> (RACE)

¹⁰ TKC/Western Riverside Council of Governments, 2000, <u>SATISFY 2020 Summary of Cost Estimates</u>

as part of the 2024 Nexus Update to reflect the effects of significant changes in materials, labor and land acquisition costs including the influences of supply chain disruptions during and following the COVID-19 pandemic, and the elevated rates of inflation prevailing in the past few years. **Appendix F** provides a detailed outline of the assumptions and methodology leading to the revised TUMF unit cost assumptions developed as part of the 2024 Nexus Update. A new category was also added to the cost assumptions to facilitate the use of intelligent transportation systems (ITS) to enhance traffic flows in arterial corridors that require mitigation but cannot accommodate construction of addition lane capacity.

Section 8.5.1 of the Riverside County Integrated Project (RCIP) Multiple Species Habitat Conservation Plan (MSHCP) adopted by the Riverside County Board of Supervisors on June 17, 2003, states that "each new transportation project will contribute to Plan Historically, these projects have budgeted 3% - 5% of their implementation. construction costs to mitigate environmental impacts." This expectation is reiterated in the Western Riverside County Multiple Species Habitat Conservation Plan Nexus Fee Study Update (Economic & Planning Systems, Inc., October 2020) Section 6 which indicates that "about 44% of the revenue for the program" is expected to be derived from non-fee sources, including "the Measure A sales tax which is authorized through 2039 and other transportation funding sources such as the Transportation Uniform Mitigation Fees (TUMF)." Consistent with the MSHCP Nexus Report, an amount equal to 5% of the construction cost for new TUMF network lanes, bridges and railroad grade separations will be specifically included as part of TUMF Program with revenues to be provided to the Western Riverside County Regional Conservation Authority (RCA) for the acquisition of land identified in the MSHCP. The relevant sections of the MSHCP document and the most recent MSHCP Nexus Report are included in Appendix F.

Table 4.1 summarizes the unit cost estimate assumptions used to develop the TUMF network cost estimate as part of the current Nexus Update. **Table 4.1** also includes a comparison of the original TUMF unit cost assumptions and the 2016 Nexus Study unit cost assumptions that demonstrates the significant increases in unit costs observed during recent years. In most cases the unit cost assumptions have more than doubled from those used for the 2016 Nexus Study. Cost estimates are provided in current year values as indicated.

To estimate the cost of improving the regional network to provide for traffic growth from new development, the network characteristics and performance guidelines (outlined in **Section 4.1**) were initially used as a basis for determining the needed improvements. The initial list of improvements was then compared with local General Plan Circulation Elements to ensure that the TUMF network included planned arterial roadways of regional significance. A consolidated list of proposed improvements and the unit cost assumptions were then used to establish an initial estimate of the cost to improve the network to mitigate for future traffic growth associated with new development. This initial list of proposed improvements has since been revised and updated as part of each subsequent Nexus Update to reflect the completion of projects, changing levels of development and associated changes in travel demand and transportation system impacts to be mitigated as part of the TUMF program.

Table 4.1 - Unit Costs for Arterial Highway and Street Construction

Component Type	Original Cost Assumptions as published October 18, 2002	Cost Assumptions per 2016 Nexus Study July 10, 2017	Cost Assumptions per 2024 Nexus Update	Description
Terrain 1	\$550,000	\$692,000	\$1,132,000	Construction cost per lane mile - level terrain
Terrain 2	\$850,000	\$878,000	\$1,740,000	Construction cost per lane mile - rolling terrain
Terrain 3	\$1,150,000	\$1,064,000	\$2,350,000	Construction cost per lane mile - mountainous terrain
Landuse 1	\$900,000	\$2,509,000	\$7,830,000	ROW cost factor per lane mile - urban areas
Landuse 2	\$420,000	\$2,263,000	\$5,440,000	ROW cost factor per lane mile - suburban areas
Landuse 3	\$240,000	\$287,000	\$490,000	ROW cost factor per lane mile - rural areas
Interchange 1	n/a	\$50,032,000	\$84,190,000	Complex new interchange/interchange/modification cost
Interchange 2	\$20,000,000	\$25,558,000	\$43,490,000	New interchange/interchange modification total cost
Interchange 3	\$10,000,000	\$12,343,000	\$22,550,000	Major interchange improvement total cost
Bridge 1	\$2,000	\$3,180	\$4,800	Bridge total cost per lane per linear foot
RRXing 1	\$4,500,000	\$6,376,000	\$18,200,000	New Rail Grade Crossing per lane
RRXing 2	\$2,250,000	\$2,733,000	\$6,900,000	Existing Rail Grade Crossing per lane
ITS 1			\$686,400	Infrastructure for ITS of roadway segments per route mile
Planning	10%	10%	10%	Planning, preliminary engineering and environmental assessment costs based on construction cost only
Engineering	25%	25%	25%	Project study report, design, permitting and construction oversight costs based on construction cost only
Contingency	10%	10%	10%	Contingency costs based on total segment cost
Administration		4%	4%	TUMF program administration based on total TUMF eligible network cost
MSHCP		5%	5%	TUMF component of MSHCP based on total TUMF eligible construction cost

As indicated in **Table 2.4** and **Figure 2.4**, the anticipated rate of forecasted growth in Western Riverside County has been reduced by 4% for population, 3% for single-family residential and 31% for employment. This reduced rate of forecasted socioeconomic growth has a commensurate impact on the forecasted daily traffic in the region as demonstrated by the 2016 Nexus Study VMT compared to the 2024 Nexus Update VMT in **Table 4.2**. As shown in the table, the forecast peak period VMT on the TUMF arterial network in the year 2045 as the basis for the 2024 Nexus Update is more than 5% less than the comparable peak period VMT for 2040 used for the 2016 Nexus Study.

Table 4.2 – Forecasted Daily Traffic in Western Riverside County

	2024 Nex	us Update	2016 Nexus Study	
Measure of Performance	Peak	Period	Peak Period	
	2018 Existing	2045 No-Build	2012 Existing	2040 No-Build
VMT - Total ALL FACILITIES	23,284,724	29,897,254	19,532,437	29,277,587
VMT - FREEWAYS	13,514,522	15,490,284	11,019,155	14,487,570
VMT - ALL ARTERIALS	9,770,202	14,406,970	8,513,282	14,790,016
TOTAL - TUMF ARTERIAL VMT	6,216,985	8,597,200	5,585,202	9,089,495

Source: RivCoM 2018 base network and SCAG 2020 RTP/SCS SED with updated 2021 arterial network as existing in December 2021; RivTAM 2012 network and SCAG 2016 RTP/SCS SED with updated 2015 arterial network completed by WSP, September 2016

As a result of the reduced forecast traffic growth in the region, it is anticipated that the cumulative regional impacts of new development on the arterial highway and transit systems in the region is also reduced necessitating a reduction in the projects identified on the TUMF Network to mitigate the impacts of new development. As part of the 2024 Nexus Update, the list of proposed improvements included in the initial Nexus Study and validated during the subsequent Nexus updates was reviewed for accuracy and, where necessary, amended to remove or modify projects that have changed in need to mitigate impacts based on changes in the patterns of growth and travel demand within the region. Projects completed since the adoption of the 2016 Nexus Update were also removed from the network to reflect the fact that mitigation at these locations is no longer required. The specific network changes were screened by the WRCOG Public Works Committee for consistency with TUMF network guidelines including travel demand and traffic performance.

Based on the findings of the network screening, elements of specific projects were revised to reflect necessary network corrections and modifications to project assumptions. A matrix summarizing the disposition of the requests received as part of the 2024 TUMF Nexus Update was developed and is included in **Appendix G**.

Eligible arterial highway and street improvement types to mitigate the cumulative regional transportation impacts of new development on Network facilities include:

- 1. Construction of additional Network roadway lanes
- 2. Construction of new Network roadway segments
- 3. Expansion of existing Network bridge structures
- 4. Construction of new Network bridge structures
- 5. Expansion of existing Network interchanges with freeways
- 6. Construction of new Network interchanges with freeways
- 7. Grade separation of existing Network at-grade railroad crossings
- 8. Installation of ITS along Network roadway segments

All eligible improvement types, except for ITS, provide additional capacity to Network facilities to accommodate future traffic growth generated by new development in Western Riverside County. ITS provides the ability to improve traffic flows along corridors

where capacity expansion is not possible. Following the comprehensive update of the TUMF Program, the estimated total cost to improve the RSHA for Western Riverside County is \$4.84 billion with this cost including all arterial highway and street planning, engineering, design, right-of-way acquisition and capital construction costs, but not including transit, MSHCP or program administration costs that will be subsequently described. It should be noted that the full cost to improve the TUMF Network cannot be entirely attributed to new development and must be adjusted to account for the previous obligation of other funds to complete necessary improvements and unfunded existing needs. **Sections 4.5** and **4.6** describe the adjustments to the total TUMF Network improvement need to account for existing needs and obligated funds.

In addition to the arterial highway and street improvement costs indicated above, the TUMF Nexus Update included specific consideration for the TUMF Program obligation to the MSHCP program to mitigate the impact of TUMF network improvements on species and habitat within Western Riverside County. The TUMF obligation to MSHCP was calculated at a rate of 5% of the total construction (capital) cost of new lane segments, bridges and railroad grade separations on the TUMF Network. The total obligation to the MSHCP as indicated in the TUMF Network cost fee table is approximately \$64.6 million, although the total obligation specific to the TUMF program is reduced to account for MSHCP obligations associated with improvements addressing existing needs and therefore excluded from TUMF.

The TUMF 2024 Nexus Update similarly includes specific consideration of the costs associated with WRCOG administration of the TUMF Program. The average cost for WRCOG to administer the TUMF Program was calculated at a rate of 4% of the total eligible cost of new lane segments (including interchanges, bridges and railroad grade separations) on the TUMF Network and new transit services. Administration costs incurred by WRCOG include direct salary, fringe benefit and overhead costs for WRCOG staff assigned to administer the program and support participating jurisdictions, and costs for consultant, legal and auditing services to support the implementation of the TUMF program. The total cost for WRCOG administration of the TUMF Program as indicated in the TUMF Network cost fee table is approximately \$161.2 million.

The detailed TUMF network cost calculations are provided in **Section 4.7**, including each of the individual segments and cost components considered as part of the TUMF Program, and the maximum eligible TUMF share for each segment following adjustments for obligated funding and unfunded existing needs as described in subsequent sections.

4.4 Public Transportation Component of the TUMF System

In addition to the roadway network, public transportation plays a key role in serving future travel demand in the region. Public transportation serving inter-community trips is generally provided in the form of public bus transit services and in particular express bus or other high frequency services between strategically located community transit centers. In Western Riverside County, these bus transit services are typically provided by

RTA. Transit needs to serve future regional travel in Western Riverside County via bus transit include vehicle acquisitions, transit centers, express bus stop upgrades, maintenance facilities and other associated capital improvements to develop express bus or other high frequency inter-community transit bus services within the region. Metrolink commuter rail service improvements were not included in the TUMF Program as they typically serve longer inter-regional commute trips equivalent to freeway trips on the inter-regional highway system.

The network of regionally significant bus transit services represents those express bus and other high frequency transit bus services that primarily support inter-community trips in Western Riverside County and supplement the regional highway system and interregional commuter rail services. As a result, this portion of the bus transit system also represents the extents of the network of bus services that would be eligible for TUMF funded improvements.

The TUMF Bus Transit Network is the system of bus services that serve inter-community trips within Western Riverside County and therefore are eligible for improvement funding with TUMF funds. The Bus Transit Network for Western Riverside County was identified based on several transit network and performance guidelines as follows:

- 1. Bus transit routes (or corridors comprised of multiple overlapping routes) proposed to have a frequency of greater than three buses per direction during peak hours at ultimate build out.
- Routes or corridors that serve multiple jurisdictions and/or provide connectivity between communities, both within and adjoining western Riverside County.
- 3. Routes or corridors with forecast weekday bus ridership in excess of 1,000 person trips per day by 2040.
- 4. Routes or corridors that are proposed to provide timed interconnections with at least four other routes or corridors at ultimate build out.
- 5. Routes or corridors that utilize the majority of travel along the TUMF RSHA.
- 6. Routes or corridors that provide direct access to areas of forecast population and employment growth, major commercial, industrial, institutional, recreational or tourist activity centers, and multi-modal transportation facilities (such as airports, railway terminals and transit centers).

Express bus routes and other high-frequency bus transit routes and corridors in Western Riverside County that generally satisfied the respective guidelines were identified by RTA. Updated cost estimates for improving the infrastructure serving public transportation, including construction of transit centers and transfer facilities, express bus stop upgrades, and capital improvements needed to develop express bus and other high frequency bus transit service within the region were also provided by RTA. The updated transit unit cost data provided by RTA are shown in **Table 4.3**.

Table 4.3 - Unit Costs for Transit Capital Expenditures

Component Type*	Original Cost Assumptions as published October 18, 2002	Cost Assumptions per 2016 Nexus Study July 10, 2017	Cost Assumptions per 2024 Nexus Update	Description
Transit Center 1		\$6,000,000	\$7,465,000	Relocation/expansion of existing Regional Transit Center with up to 14 bus bays and park and ride
Transit Center 2	\$6,000,000	\$9,000,000	\$11,195,000	New Regional Transit Center with up to 14 bus bays and park and ride
Transfer Facility		\$1,000,000	\$1,245,000	Multiple route transfer hub
O & M Facility		\$50,000,000	\$62,186,000	Regional Operations and Maintenance Facility
Green Technology			\$100,000	ZEB technology enhancements
Bus Stop	\$10,000	\$40,000	\$50,000	Bus Stop Amenities Upgrade on TUMF Network
BRT Service Capital	\$540,000	\$60,000	\$75,000	BRT/Limited Stop Service Capital (per stop**)
Vehicle Fleet 1***			\$160,000	Small Sized Bus/Van Contract Operated
Vehicle Fleet 2		\$155,000	\$300,000	Medium Sized Bus Contract Operated
Vehicle Fleet 3	\$325,125	\$585,000	\$1,271,000	Large Sized Bus Directly Operated
COA Study		\$950,000	\$1,150,000	Comprehensive Operational Analysis Study component of Nexus Study Update

^{*} Transit Cost Component Types were restructured as part of the 2016 Nexus Update in accordance with the RTA Comprehensive Operational Analysis (January 2015)

The estimated total cost for future RTA bus transit services to accommodate forecast transit demand is approximately \$217.9 million with this cost including all planning, engineering, design and capital improvement costs. Detailed transit component cost estimates are included in **Section 4.7**. The full cost to improve RTA bus transit services cannot be entirely attributed to new development and must be adjusted to account for existing needs. **Section 4.6** describes the adjustments to the total transit cost to account for existing needs.

^{**} BRT Service Capital Cost Assumption was based on a per mile unit prior to the 2016 Nexus Update. 2016 Nexus Update uses a per stop unit cost for BRT Service Capital

^{***} Vehicle Fleet component was restructured as part of the 2024 Nexus Update with the inclusion of Small Sized

Bus/Van Contract Operated as Vehicle Fleet 1 and subsequent renumbering of Vehicle Fleet 2 and 3, respectively

4.5 Existing Obligated Funding

For some of the facilities identified in the TUMF network, existing obligated funding has previously been secured through traditional funding sources to complete necessary improvements. Since funding has been obligated to provide for the completion of needed improvements to the TUMF system, the funded cost of these improvements will not be recaptured from future developments through the TUMF Program. As a result, the TUMF network cost was adjusted accordingly to reflect the availability of obligated funds.

To determine the availability of obligated funds, WRCOG staff, in conjunction with RCTC staff, completed a review of the current Federal Transportation improvement Program (FTIP) to identify TUMF eligible projects that were also programmed to receive funding from alternate sources. A table summarizing the obligated funds for segments of the TUMF network is included in **Appendix H**. A total of \$382.9 million in obligated funding was identified for improvements to the TUMF system. The estimated total TUMF network project cost was subsequently reduced by this amount.

4.6 Unfunded Existing Improvement Needs

A review of the existing traffic conditions on the TUMF network (as presented in **Table 3.1**) indicates that some segments of the roadways on the TUMF system currently experience congestion and operate at unacceptable levels of service. In addition, demand for inter-community transit service already exists and future utilization of proposed inter-community transit services will partially satisfy this existing demand. The need to improve these portions of the system is generated, at least in part, by existing demand, rather than solely the cumulative regional impacts of future new development, so future new development cannot be assessed for the equivalent cost share of improvements providing for this existing need.

To account for existing need in the TUMF Network, the cost for facilities identified as currently experiencing LOS E or F was adjusted. This was done by identifying the portion of any segment of the TUMF Network with a volume to capacity (v/c) ratio of greater than 0.9 (the threshold for LOS E) in the RivCoM 2018 Existing scenario and extracting the share of the overall facility cost to improve that portion. This cost adjustment provides for the mitigation of incremental traffic growth on those TUMF segments with an existing high level of congestion. The following approach was applied to account for incremental traffic growth associated with new development as part of the existing need methodology:

1. Facilities with an existing need were identified by reviewing the RivCoM 2018 Existing scenario assigned traffic on the 2021 existing network and delineating

those facilities included on the TUMF Cost Fee Summary Table that have an average directional v/c exceeding 0.9011.

- a. Weighted directional v/c values were used to determine existing need for network segments, which was calculated by:
 - Determining the length for the portion of each segment (model link), and calculating the ratio of link length to the overall segment length
 - ii. Generating the average directional v/c for each link, for both directions in AM and PM periods, and multiplying by link/segment length ratio
 - iii. Determining the maximum peak-period peak-direction v/c for each link, representing the highest directional v/c in either AM or PM
 - iv. Calculating weighted average v/c for each TUMF segment, based on the sum of all weighted max v/c values of each link within a segment
- b. A similar method was used to determine existing need for spot improvements including interchanges, railroad crossings and bridges. However, no weighting was used in the calculation of existing need for spot improvements. For these facilities, the peak-period peak-direction v/c values (highest directional v/c in either AM or PM) were utilized in the existing need calculation. This was based on the individual link within a network segment where a bridge or railroad crossing is located, or on-and off-ramps in the case of interchanges.
- 2. Initial costs of addressing the existing need were calculated by estimating the share of a particular roadway segments "new lane" cost, or individual spot improvement cost (including all associated ROW and soft costs).
- 3. Incremental growth in v/c was determined by comparing the average directional exisiting year v/c for the TUMF facilities (delineated under step one) with the horizon year v/c for the corresponding segments and spot improvements calculated based on the RivCoM 2045 No-Build scenario assigned traffic on the 2021 existing network using the same methodology as the existing year v/c.

¹¹ The RivCoM 2021 Existing Network used for the TUMF Nexus Study analyses reflects the RivCoM 2018 base year network augmented to include highways facilities on the TUMF Network as they existed in December 2021. A second version of the base network was also developed adding only those facilities that had been identified on the 2016 TUMF Nexus study 2040 Build scenario that did not currently exist in December 2021 and therefore were not represented by a link(s) in the RivCoM base network. The Supplemental 2021 Existing Network was utilized as the basis for determining existing and future v/c for only those projects that did not currently exist on the 2021 TUMF Network.

- 4. The proportion of the incremental growth attributable to new development was determined by dividing the result of step three with the total 2045 No-Build scenario v/c exceeding LOS E.
- 5. For those segments experiencing a net increase in v/c over the base year, TUMF will 'discount' the cost of existing need improvements by the proportion of the incremental v/c growth through 2045 No-Build compared to the 2018 Baseline v/c (up to a maximum of 100%).

The unfunded cost of existing highway improvement needs (including the related MSHCP obligation) totals \$582.6 million. **Appendix H** includes a detailed breakdown of the existing highway improvement needs on the TUMF network, including the associated unfunded improvement cost estimate for each segment and spot improvement experiencing unacceptable LOS.

For transit service improvements, the cost to provide for existing demand was determined by multiplying the total transit component cost by the share of future transit trips representing existing demand. The cost of existing transit service improvement needs is \$63.0 million representing 28.9% of the TUMF transit component. **Appendix H** includes tables reflecting the calculation of the existing transit need share and the existing transit need cost.

4.7 Maximum TUMF Eligible Cost

A total of \$382.9 million in obligated funding was identified for improvements to the TUMF system. Since these improvements are already funded with other available revenue sources, the funded portion of these projects cannot also be funded with TUMF revenues. Furthermore, the total cost of the unfunded existing improvement need is \$646.9 million. These improvements are needed to mitigate existing transportation deficiencies and therefore their costs cannot be assigned to new development through TUMF.

Based on the estimated costs described in **Sections 4.3** and **4.4**, the total value to complete the identified TUMF network and transit improvements, and administer the program is \$5.28 billion. Having accounted for obligated funds and unfunded existing needs as described in **Sections 4.5** and **4.6**, respectively, the estimated maximum eligible value of the TUMF Program is \$4.24 billion. The maximum eligible value of the TUMF Program includes approximately \$3.87 billion in eligible arterial highway and street related improvements and \$154.8 million in eligible transit related improvements. An additional \$53.9 million is eligible as part of the TUMF Program to mitigate the impact of eligible TUMF related arterial highway and street projects on critical native species and wildlife habitat, while \$161.2 million is provided to cover the costs incurred by WRCOG to administer the TUMF Program.

Figure 4.4 illustrates the various improvements to the RSHA included as part of the TUMF network cost calculation. **Table 4.4** summarizes the TUMF network cost calculations for each of the individual segments. This table also identifies the maximum eligible TUMF share for each segment having accounted for obligated funding and unfunded

existing need. A detailed breakdown of the individual cost components and values for the various TUMF Network segments is included in **Appendix H**. **Table 4.5** outlines the detailed transit component cost estimates. It should be noted that the detailed cost tables (and fee levels) are subject to regular review and updating by WRCOG and therefore WRCOG should be contacted directly to obtain the most recently adopted version of these tables (and to confirm the corresponding fee level).

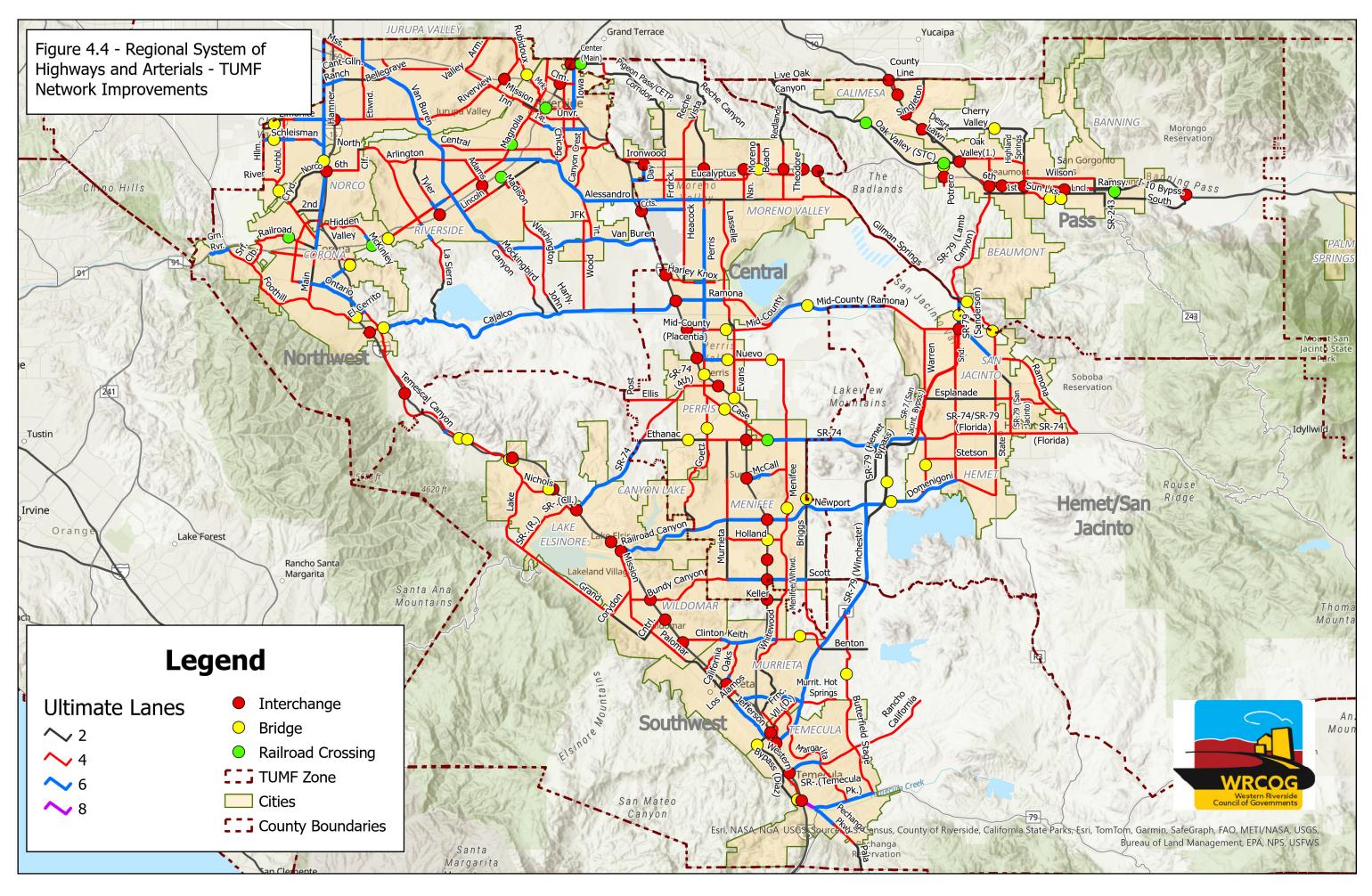


Table 4.4 - TUMF Network Cost Estimates

AREA PLAN DI		STREETNAME	SEGMENTFROM	SEGMENTTO		MAXIMUM TUMF SHARE
Central	Menifee	Ethanac	Goetz	Murrieta	\$0	\$0
Central Central	Menifee Menifee	Ethanac Ethanac	Murrieta I-215	I-215	\$0 \$32,698,000	\$0 \$32,698,000
Central	Menifee	Ethanac	Sherman	interchange Matthews	\$2,674,000	\$2,674,000
Central	Menifee	Ethanac	BNSF San Jacinto Branch	railroad crossing	\$105,560,000	\$105,560,000
Central	Menifee	Menifee	SR-74 (Pinacate)	Simpson	\$1,307,000	\$1,307,000
Central	Menifee	Menifee	Salt Creek	bridge	\$4,384,000	\$4,384,000
Central	Menifee	Menifee	Simpson	Aldergate	\$0	\$0
Central	Menifee	Menifee	Aldergate	Newport	\$0	\$0
Central	Menifee	Menifee	Newport	Holland	\$0	\$0
Central	Menifee	Menifee	Holland	Garbani	\$0	\$0
Central	Menifee	Menifee	Garbani	Scott	\$4,353,000	\$4,353,000
Central	Menifee	Menifee/Whitewood	Scott	Murrieta City Limit	\$0	\$0
Central	Menifee	Newport	Goetz	Murrieta	\$0	\$0
Central	Menifee	Newport	Murrieta	I-215	\$1,130,000	\$1,130,000
Central	Menifee	Newport	I-215	Menifee	\$0	\$0
Central	Menifee	Newport	Menifee	Lindenberger	\$0	\$0
Central	Menifee	Newport	Lindenberger	SR-79 (Winchester)	\$0	\$0
Central	Menifee	Scott	I-215	Briggs	\$8,635,000	\$8,635,000
Central	Menifee	Scott	I-215	interchange	\$0	\$0
Central	Menifee	Scott	Sunset	Murrieta	\$4,388,000	\$4,388,000
Central	Menifee	Scott	Murrieta	I-215	\$16,949,000	\$12,949,000
Central	Menifee	SR-74	Matthews	Briggs	\$8,254,000	\$8,254,000
Central	Moreno Valley	Alessandro	I-215	Perris	\$13,420,000	\$13,420,000
Central	Moreno Valley	Alessandro	Perris	Nason	\$0	\$0
Central	Moreno Valley	Alessandro	Nason	Moreno Beach	\$0	\$0
Central	Moreno Valley	Alessandro	Moreno Beach	Gilman Springs	\$18,019,000	\$18,019,000
Central	Moreno Valley	Gilman Springs	SR-60	Alessandro	\$7,291,000	\$7,291,000
Central	Moreno Valley	Gilman Springs	SR-60	interchange	\$0	\$0
Central	Moreno Valley	Perris	Reche Vista	Ironwood	\$0	\$0
Central	Moreno Valley	Perris	Ironwood	Sunnymead	\$0	\$0
Central	Moreno Valley	Perris	SR-60	interchange	\$32,698,000	\$11,192,000
Central	Moreno Valley	Perris	Sunnymead	Cactus	\$0	\$0
Central	Moreno Valley	Perris	Cactus	Harley Knox	\$0	\$0
Central	Moreno Valley	Reche Vista	Country	Heacock	\$7,486,000 \$4,582,000	\$3,799,000
Central Central	Perris Perris	11th/Case Case	Perris Goetz	Goetz		\$4,582,000
Central				I-215	\$20,876,000	\$20,876,000
Central	Perris Perris	Case Ethanac	San Jacinto River	bridge Goetz	\$1,740,000	\$1,235,000 \$6,056,000
Central	Perris	Ethanac	Keystone San Jacinto River	bridge	\$6,056,000 \$5,568,000	\$5,568,000
Central	Perris	Ethanac	I-215	Sherman	\$5,316,000	\$5,316,000
Central	Perris	Goetz	Case	Ethanac	\$1,507,000	\$999,000
Central	Perris	Goetz	San Jacinto River	bridge	\$5,568,000	\$3,398,000
Central	Perris	Mid-County (Placentia)	I-215	Perris	\$15,655,000	\$15,655,000
Central	Perris	Mid-County (Placentia)	I-215	interchange	\$0	\$0
Central	Perris	Mid-County (Placentia)	Perris	Evans	\$22,985,000	\$22,985,000
Central	Perris	Mid-County (Placentia)	Perris Valley Storm Channel	bridge	\$8,352,000	\$8,352,000
Central	Perris	Perris	Harley Knox	Ramona	\$0	\$0,552,666
Central	Perris	Perris	Ramona	Citrus	\$7,063,000	\$7,063,000
Central	Perris	Perris	Citrus	Nuevo	\$0	\$0
Central	Perris	Perris	Nuevo	11th	\$6,927,000	\$6,927,000
Central	Perris	Perris	I-215 overcrossing	bridge	\$0	\$0
Central	Perris	Ramona	I-215	Perris	\$5,039,000	\$5,039,000
Central	Perris	Ramona	I-215	interchange	\$32,698,000	\$7,725,000
Central	Perris	Ramona	Perris	Evans	\$0	\$0
Central	Perris	Ramona	Evans	Mid-County (2,800 ft E of Rider)	\$0	\$0
Central	Perris	SR-74 (4th)	Ellis	I-215	\$0	\$0
Central	Unincorporated	Ethanac	SR-74	Keystone	\$4,666,000	\$4,666,000
Central	Unincorporated		Alessandro	Bridge Road	\$30,601,000	\$30,601,000
Central	Unincorporated		Nuevo	SR-74 (Pinacate)	\$16,684,000	\$16,684,000
Central	Unincorporated		Evans	Ramona (2,800 ft E of Rider)	\$12,156,000	\$12,156,000
Central		Mid-County (Ramona)	Ramona (2,800 ft E of Rider)	Pico Avenue	\$0	\$0
Central	Unincorporated	Mid-County (Ramona)	Pico Avenue	Bridge Road	\$47,769,000	\$47,769,000
Central	Unincorporated	Mid-County (Ramona)	San Jacinto River	bridge	\$36,192,000	\$36,192,000
Central	Unincorporated	Reche Canyon	San Bernardino County	Reche Vista	\$0	\$0
Central	Unincorporated	Reche Vista	Reche Canyon	Country	\$0	\$0
Central	Unincorporated	Scott	Briggs	SR-79 (Winchester)	\$0	\$0
Central	Unincorporated	SR-74	Ethanac	Ellis	\$0	\$0
Northwest	Corona	Cajalco	I-15	Temescal Canyon	\$0	\$0
Northwest	Corona	Cajalco	I-15	interchange	\$0	\$0
Northwest	Corona	Foothill	Paseo Grande	Lincoln	\$0	\$0
Northwest	Corona	Foothill	Wardlow Wash	bridge	\$0	\$0
Northwest	Corona	Foothill	Lincoln	California	\$0	\$0
Vorthwest	Corona	Foothill	California	I-15	\$0	\$0
Northwest	Corona	Green River	SR-91	Dominguez Ranch	\$0	\$0
Vorthwest	Corona	Green River	Dominguez Ranch	Palisades	\$0	\$0
Vorthwest	Corona	Green River	Palisades	Paseo Grande	\$0	\$0
Vorthwest	Eastvale	Schleisman	San Bernardino County	600' e/o Cucamonga Creek	\$648,000	\$648,000
Northwest	Eastvale	Schleisman	Cucamonga Creek	bridge	\$0	\$0
Northwest	Eastvale	Schleisman	600' e/o Cucamonga Creek	Harrison	\$866,000	\$866,000
Northwest	Eastvale	Schleisman	Harrison	Sumner	\$488,000	\$488,000
Northwest	Eastvale	Schleisman	Sumner	Scholar	\$7,625,000	\$7,625,000
		Schleisman	Scholar	A Street	\$119,000	\$119,000
Northwest Northwest	Eastvale Eastvale	Schleisman	A Street	Hamner	\$209,000	\$209,000

Table 4.4 - TUMF Network Cost Estimates (continued)

AREA PLAN DIST		STREETNAME	SEGMENTFROM	SEGMENTTO		MUM TUMF SHARE
	Jurupa Valley	Van Buren	SR-60	Bellegrave	\$23,928,000	\$10,461,000
	Jurupa Valley	Van Buren	Bellegrave	Santa Ana River	\$60,900,000	\$0
Northwest	Riverside	Alessandro	Arlington	Trautwein	\$2,410,000	\$2,410,000
Northwest	Riverside	Arlington	La Sierra	Magnolia	\$0	\$0
Vorthwest	Riverside	Arlington	Magnolia	Alessandro	\$46,465,000	\$46,465,000
Northwest	Riverside	Van Buren	Santa Ana River	SR-91	\$5,230,000	\$4,392,000
Northwest	Riverside	Van Buren	SR-91	Mockingbird Canyon	\$39,493,000	\$21,292,000
Northwest	Riverside	Van Buren	Wood	Trautwein	\$0	\$0
Northwest	Riverside	Van Buren	Trautwein	Orange Terrace	\$7,574,000	\$7,574,000
	Unincorporated		Trautwein	Vista Grande	\$0	\$0
	Unincorporated		Vista Grande	I-215	\$0	\$0
	Unincorporated		El Sobrante	Harley John	\$10,580,000	\$9,817,000
	Unincorporated		Harley John	Harvil	\$166,492,000	\$166,492,000
	Unincorporated		Harvil	I-215	\$1,238,000	\$1,238,000
	Unincorporated		Temescal Canyon	La Sierra	\$49,596,000	\$35,953,000
			Temescal Wash			
	Unincorporated			bridge	\$4,872,000	\$1,907,000
	Unincorporated		La Sierra	El Sobrante	\$96,453,000	\$96,453,000
	Unincorporated		Mockingbird Canyon	Wood	\$67,429,000	\$67,429,000
	Unincorporated		Orange Terrace	I-215	\$0	\$0
	Banning	Highland Springs	Wilson (8th)	Sun Lakes	\$0	\$0
	Banning	Highland Springs	I-10	interchange	\$63,061,000	\$32,516,000
Pass	Banning	Highland Springs	Oak Valley (14th)	Wilson (8th)	\$0	\$0
Pass	Banning	Highland Springs	Cherry Valley	Oak Valley (14th)	\$0	\$0
Pass	Banning	I-10 Bypass South	I-10	Morongo Trail (Apache Trail)	\$50,110,000	\$50,110,000
Pass	Banning	I-10 Bypass South	I-10	interchange	\$63,061,000	\$63,061,000
Pass	Banning	I-10 Bypass South	San Gorgonio	bridge	\$4,176,000	\$4,176,000
	Banning	I-10 Bypass South	UP/Hargrave	railroad crossing	\$52,780,000	\$52,780,000
	Beaumont	Beaumont	Oak Valley (14th)	I-10	\$0	\$0
	Beaumont	Potrero	Oak Valley (San Timoteo Canyon)	SR-60	\$1,100,000	\$1,100,000
	Beaumont	Potrero	SR-60	interchange	\$63,061,000	\$29,561,000
	Beaumont	Potrero	UP	railroad crossing		
					\$40,020,000	\$40,020,000
	Beaumont	Potrero	Noble Creek	bridge	\$0	\$0
	Beaumont	Potrero	SR-60	4th	\$0	\$0
	Beaumont	SR-79 (Beaumont)	I-10	California	\$0	\$0
	Beaumont	SR-79 (Beaumont)	I-10	interchange	\$63,061,000	\$7,408,000
Pass	Calimesa	Cherry Valley	I-10	interchange	\$63,061,000	\$59,773,000
Pass	Calimesa	Cherry Valley	Roberts St	Roberts Rd	\$3,053,000	\$3,053,000
Pass	Unincorporated	Cherry Valley	Bellflower	Noble	\$6,411,000	\$6,411,000
Pass	Unincorporated	Cherry Valley	Highland Springs	Bellflower	\$0	\$0
Pass	Unincorporated	Cherry Valley	Noble	Roberts St	\$0	\$0
	Unincorporated		San Timoteo Wash	bridge	\$O	\$0
		SR-79 (Lamb Canyon)	California	Gilman Springs	\$0	\$0
	Hemet	Domenigoni	Warren	Sanderson	\$7,726,000	\$7,726,000
	Hemet	Domenigoni	Sanderson	State	\$0	\$0
	Hemet	SR-74	Winchester	Warren	\$35,208,000	\$35,208,000
			Warren	Sanderson	\$33,208,000	\$33,208,000
	San Jacinto	Mid-County (Ramona)				
	San Jacinto	Mid-County (Ramona)	Sanderson/SR-79 (Hemet Bypass)	interchange	\$0	\$0
	San Jacinto	Ramona	Sanderson	State	\$0	\$0
	San Jacinto	Ramona	State	Main	\$0	\$0
	San Jacinto	Ramona	Main	Cedar	\$31,518,000	\$26,928,000
San Jacinto	San Jacinto	Ramona	Cedar	SR-74	\$0	\$C
San Jacinto	Unincorporated	Domenigoni	SR-79 (Winchester)	Warren	\$13,508,000	\$13,508,000
San Jacinto	Unincorporated	Domenigoni	San Diego Aqueduct	bridge	\$4,176,000	\$4,176,000
San Jacinto	Unincorporated	Gilman Springs	Bridge	Sanderson	\$0	\$C
		Mid-County (Ramona)	Bridge	Warren	\$9,221,000	\$9,221,000
	Unincorporated		Briggs	SR-79 (Winchester)	\$15,417,000	\$15,417,000
		SR-79 (Hemet Bypass)	SR-74 (Florida)	Domenigoni	\$13,901,000	\$13,901,000
		SR-79 (Hemet Bypass)	San Diego Aqueduct	bridge	• • • •	
					\$4,176,000	\$4,176,000
		SR-79 (Hemet Bypass)	Domenigoni	Winchester	\$6,542,000	\$6,542,000
		SR-79 (San Jacinto Bypass)	Mid-County (Ramona)	SR-74 (Florida)	\$56,690,000	\$56,690,000
	Unincorporated	SR-79 (Sanderson)	Gilman Springs	Ramona	\$6,899,000	\$2,555,000
			and the second s		4.2	
San Jacinto	Unincorporated	SR-79 (Sanderson) SR-79 (Winchester)	San Jacinto River Domenigoni	bridge Keller	\$19,488,000 \$65,022,000	\$7,651,000 \$65,022,000

Table 4.4 - TUMF Network Cost Estimates (continued)

AREA PLAN DIST	CITY		MENTFROM	SEGMENTTO	TOTAL COST	MAXIMUM TUMF SHAR
Southwest	Canyon Lake	Goetz	Railroad Canyon	Newport	\$0	\$1
Southwest	Canyon Lake	Railroad Canyon	Canyon Hills	Goetz	\$0	\$1
Southwest	Lake Elsinore	Railroad Canyon	I-15	Canyon Hills	\$0	\$1
Southwest	Lake Elsinore	Railroad Canyon	I-15	interchange	\$0	\$1
Southwest	Lake Elsinore	SR-74	I-15	interchange	\$63,061,000	\$24,162,00
Southwest	Murrieta	Clinton Keith	Copper Craft	Toulon	\$0	\$1
Southwest	Murrieta	Clinton Keith	Toulon	I-215	\$2,076,000	\$2,076,00
Southwest	Murrieta	Clinton Keith	I-215	Whitewood	\$0	\$1
Southwest	Murrieta	French Valley (Date)	Murrieta Hot Springs	Winchester Creek	\$7,321,000	\$7,321,00
Southwest	Murrieta	French Valley (Date)	Winchester Creek	Margarita	\$0	\$1
Southwest	Murrieta	Whitewood	Menifee City Limit	Keller	\$0	\$1
Southwest	Murrieta	Whitewood	Keller	Clinton Keith	\$0	\$1
Southwest	Temecula	French Valley (Cherry)	Jefferson	Diaz	\$3,929,000	\$3,929,00
Southwest	Temecula	French Valley (Cherry)	Murrieta Creek	bridge	\$5,846,000	\$5,846,00
Southwest	Temecula	French Valley (Date)	Margarita	Ynez	\$0	\$1
Southwest	Temecula	French Valley (Date)	Ynez	Jefferson	\$5,010,000	\$5,010,00
Southwest	Temecula	French Valley (Date)	I-15	interchange	\$122,076,000	\$122,076,000
Southwest	Temecula	SR-79 (Winchester)	Murrieta Hot Springs	Jefferson	\$2,697,000	\$2,697,00
Southwest	Temecula	SR-79 (Winchester)	I-15	interchange	\$0	\$1
Southwest	Temecula	Western Bypass (Diaz)	Cherry	Rancho California	\$2,285,000	\$2,285,00
Southwest	Temecula	Western Bypass (Vincent Moroga)	Rancho California	SR-79 (Front)	\$23,629,000	\$23,629,00
Southwest	Temecula	Western Bypass (Vincent Moroga)	I-15	interchange	\$0	\$1
Southwest	Temecula	Western Bypass (Vincent Moroga)	Murrieta Creek	bridge	\$4,176,000	\$4,176,00
Southwest	Unincorporated	Benton	SR-79	Eastern Bypass	\$0	\$1
Southwest	Unincorporated	Clinton Keith	Whitewood	SR-79	\$5,539,000	\$5,539,00
Southwest	Unincorporated	Clinton Keith	Warm Springs Creek	bridge	\$0	\$1
Southwest	Unincorporated	SR-74	I-15	Ethanac	\$27,699,000	\$26,347,00
Southwest	Unincorporated	SR-79 (Winchester)	Keller	Thompson	\$34,213,000	\$34,213,00
Southwest	Unincorporated	SR-79 (Winchester)	Thompson	La Alba	\$27,699,000	\$27,699,00
Southwest	Unincorporated	SR-79 (Winchester)	La Alba	Hunter	\$7,854,000	\$3,042,00
Southwest	Unincorporated	SR-79 (Winchester)	Hunter	Murrieta Hot Springs	\$595,000	\$442,00
Southwest	Wildomar	Bundy Canyon	I-15	Monte Vista	\$1,362,000	\$1,362,00
Southwest	Wildomar	Bundy Canyon	Monte Vista	Sunset	\$24,818,000	\$24,818,00
Southwest	Wildomar	Bundy Canyon	I-15	interchange	\$32,698,000	\$24,613,00
Southwest	Wildomar	Clinton Keith	Palomar	I-15	\$0	\$1
Southwest	Wildomar	Clinton Keith	I-15	Copper Craft	\$5,030,000	\$1
Subtotal					\$2,331,921,000	\$1,961,707,000

Table 4.4 - TUMF Network Cost Estimates (continued)

AREA PLAN DIST			SEGMENTFROM	SEGMENTTO	TOTAL COST	MAXIMUM TUMF SHARE
	Menifee	Briggs	Newport	Scott	\$0	
	Menifee	Briggs	SR-74 (Pinacate)	Simpson	\$2,991,000	
	Menifee	Briggs	Simpson	Old Newport	\$5,430,000	\$5,430,000
Central	Menifee	Briggs	Salt Creek	bridge	\$8,352,000	\$8,352,000
Central	Menifee	Garbani	I-215	interchange	\$63,061,000	\$42,483,000
Central	Menifee	Goetz	Juanita	Lesser Lane	\$11,378,000	\$11,378,000
Central	Menifee	Goetz	Newport	Juanita	\$0	
	Menifee	Holland	Murrieta	Bradley	\$15,708,000	
	Menifee	Holland	Bradley	Haun	\$11,439,000	\$11,439,000
	Menifee	Holland	Haun	Antelope	\$9,456,000	\$9,456,000
	Menifee	Holland	I-215 overcrossing	bridge	\$9,744,000	\$9,744,000
Central	Menifee	Holland	Antelope	Menifee	\$3,844,000	\$3,844,000
Central	Menifee	McCall	I-215	Aspel	\$5,354,000	\$5,354,000
Central	Menifee	McCall	I-215	interchange	\$0	\$0
	Menifee	McCall	Aspel	Menifee	\$2,288,000	
	Menifee	Murrieta	Ethanac	McCall	\$0	
	Menifee	Murrieta	McCall	Newport	\$7,967,000	
	Menifee	Murrieta	Newport	Bundy Canyon	\$0	
	Moreno Valley	Cactus	I-215	Heacock	\$5,617,000	
Central	Moreno Valley	Cactus	I-215	interchange	\$0) \$C
Central	Moreno Valley	Day	Ironwood	SR-60	\$0	\$0
Central	Moreno Valley	Day	SR-60	interchange	\$0	
	Moreno Valley	Day	SR-60	Eucalyptus	\$0	
	Moreno Valley		I-215	Towngate	\$8,843,000	
		Eucalyptus				
	Moreno Valley	Eucalyptus	Towngate	Frederick	\$0	
	Moreno Valley	Eucalyptus	Frederick	Heacock	\$0	
Central	Moreno Valley	Eucalyptus	Heacock	Kitching	\$0	\$0
Central	Moreno Valley	Eucalyptus	Kitching	Moreno Beach	\$0	\$0
	Moreno Valley	Eucalyptus	Moreno Beach	Theodore	\$0	
				Alessandro	\$0	
	Moreno Valley	Frederick	SR-60			
	Moreno Valley	Heacock	Cactus	San Michele	\$0	
Central	Moreno Valley	Heacock	Reche Vista	Cactus	\$0	
Central	Moreno Valley	Heacock	San Michele	Harley Knox	\$0	\$(
Central	Moreno Valley	Ironwood	SR-60	Day	\$0	\$(
	Moreno Valley	Ironwood	Day	Heacock	\$0	
	Moreno Valley	Lasselle	Alessandro	John F Kennedy	\$0	
	Moreno Valley	Lasselle	John F Kennedy	Oleander	\$0	
	Moreno Valley	Moreno Beach	Reche Canyon	SR-60	\$18,797,000	
	Moreno Valley	Moreno Beach	SR-60 overcrossing	bridge	\$C	
Central	Moreno Valley	Nason	SR-60	Alessandro	\$0) \$0
Central	Moreno Valley	Pigeon Pass	Ironwood	SR-60	\$0	\$(
	Moreno Valley	Pigeon Pass/CETAP Corridor	Hidden Springs	Ironwood	\$0	
	Moreno Valley	Reche Canyon	Moreno Valley City Limit	Locust	\$0	
	Moreno Valley	Redlands	Locust	Alessandro	\$39,789,000	
	Moreno Valley	Redlands	SR-60	interchange	\$32,698,000	
Central	Moreno Valley	Theodore	SR-60	Eucalyptus	\$3,966,000	\$3,966,000
Central	Moreno Valley	Theodore	SR-60	interchange	\$32,698,000	\$32,698,000
Central	Perris	Ellis	Goetz	Evans	\$9,526,000	
	Perris	Evans	Oleander	Ramona	\$0	
	Perris	Evans	Ramona			
				Morgan	\$0	
	Perris	Evans	Morgan	Rider	\$0	
entral	Perris	Evans	Rider	Placentia	\$0	
Central	Perris	Evans	Placentia	Nuevo	\$6,492,000	\$6,492,000
Central	Perris	Evans	Nuevo	Ellis	\$17,705,000	\$17,705,000
	Perris	Evans	San Jacinto River	bridge	\$11,136,000	\$11,136,000
	Perris	Evans	I-215	bridge	\$8,352,000	
	Perris	Goetz	Lesser	Ethanac	\$7,845,000	
Central	Perris	Harley Knox	I-215	Indian	\$0	\$(
Central	Perris	Harley Knox	I-215	interchange	\$0	\$(
Central	Perris	Harley Knox	Indian	Perris	\$0	\$(
	Perris	Harley Knox	Perris	Redlands	\$0	
	Perris	Nuevo	I-215	Murrieta	\$16,971,000	
	Perris	Nuevo	I-215	interchange	\$32,698,000	\$19,736,000
	Perris	Nuevo	Murrieta	Dunlap	\$4,367,000	
Central	Perris	Nuevo	Perris Valley Storm Channel	bridge	\$0) \$(
Central	Perris	SR-74 (Matthews)	I-215	Ethanac	\$0	\$(
	Perris	SR-74 (Matthews)	I-215	interchange	\$32,698,000	
	Unincorporated		I-215	Mt Vernon	\$0	•
	Unincorporated		I-215	interchange	\$32,698,000	
	Unincorporated		BNSF	railroad crossing	\$20,010,000	
Central	Unincorporated	Ellis	Post	SR-74	\$11,550,000	\$11,550,00
				Pigeon Pass	\$2,582,000	
	Unincorporated		Dunlap	Menifee	\$8,737,000	
					\$5,568,000	
Central	Unincorporated		San Jacinto River	bridge		
	Unincorporated	Pigeon Pass/CETAP Corridor	Hidden Springs	Mount Vernon	\$8,106,000	
		•				
Central	Unincorporated		Santa Rosa Mine	Ellis	\$0	
Central			Santa Rosa Mine Reche Vista	Ellis Moreno Valley City Limit	\$0 \$0	

Table 4.4 - TUMF Network Cost Estimates (continued)

AREA PLAN DIS		STREETNAME	SEGMENTFROM	SEGMENTTO		MUM TUMF SHARE
Northwest	Corona	6th	SR-91	Magnolia	\$0	\$0
Northwest	Corona	Auto Center	Railroad	SR-91	\$0	\$0
Northwest	Corona	Cajalco	Bedford Canyon	I-15	\$0	\$0
Northwest	Corona	Hidden Valley	Norco Hills	McKinley	\$0	\$0
Northwest	Corona	Lincoln	Parkridge	Ontario	\$0	\$0
Northwest	Corona	Magnolia	6th	Sherborn	\$7,054,000	\$6,419,000
Northwest	Corona	Magnolia	Temescal Creek	bridge	\$4,176,000	\$3,580,000
Northwest	Corona	Magnolia	Sherborn	Rimpau	\$0	\$0
Northwest	Corona	Magnolia	Rimpau	Ontario	\$0	\$0
Northwest	Corona	Main	Grand	Ontario	\$0	\$0
Northwest	Corona	Main	Ontario	Foothill	\$0	\$0
Northwest	Corona	Main			\$5,314,000	\$4,389,000
			Hidden Valley	Parkridge SR-91	\$5,314,000 \$0	
Northwest	Corona	Main	Parkridge			\$0
Northwest	Corona	Main	SR-91	S. Grand	\$0	\$0
Northwest	Corona	McKinley	Hidden Valley	Promenade	\$0	\$0
Northwest	Corona	McKinley	Promenade	SR-91	\$0	\$0
Northwest	Corona	McKinley	SR-91	Magnolia	\$0	\$0
Northwest	Corona	McKinley	Arlington Channel	bridge	\$0	\$0
Northwest	Corona	McKinley	BNSF	railroad crossing	\$105,560,000	\$0
Northwest	Corona	Ontario	I-15	El Cerrito	\$13,451,000	\$13,451,000
Northwest	Corona	Ontario	Lincoln	Buena Vista	\$0	\$0
Northwest	Corona	Ontario	Buena Vista	Main	\$0	\$0
Northwest	Corona	Ontario	Main	Kellogg	\$0	\$0
Northwest	Corona	Ontario	Kellogg	Fullerton	\$0 \$0	\$0 \$0
Northwest	Corona	Ontario	Fullerton	Rimpau	\$0	\$0
Northwest	Corona	Ontario	Rimpau	I-15	\$0	\$0
Northwest	Corona	Railroad	Auto Club	Buena Vista	\$0	\$0
Northwest	Corona	Railroad	BNSF	railroad crossing	\$40,020,000	\$40,020,000
Northwest	Corona	Railroad	Buena Vista	Main (at Grand)	\$0	\$0
Northwest	Corona	River	Corydon	Main	\$0	\$0
Northwest	Corona	Serfas Club	SR-91	Green River	\$0	\$0
Northwest	Eastvale	Archibald	Remington	River	\$3,382,000	\$3,382,000
Northwest	Eastvale	Hamner	Mission	Bellegrave	\$0	\$0
Northwest	Eastvale	Hamner	Bellegrave	Amberhill	\$199,000	\$199,000
Northwest	Eastvale	Hamner	Amberhill	Limonite	\$2,787,000	\$2,787,000
Northwest	Eastvale	Hamner	Limonite	Schleisman	\$991,000	\$991,000
Northwest	Eastvale	Hamner	Schleisman	Santa Ana River	\$5,533,000	\$3,675,000
Northwest	Eastvale	Hellman	Schleisman	Walters	\$419,000	\$419,000
Northwest	Eastvale	Hellman	Walters	River	\$21,503,000	\$21,503,000
Northwest	Eastvale	Hellman	Cucamonga Creek	bridge	\$3,828,000	\$3,828,000
Northwest	Eastvale	Limonite	I-15	Eastvale Gateway	\$289,000	\$289,000
Northwest	Eastvale	Limonite	I-15	interchange	\$0	\$0
Northwest	Eastvale	Limonite	Eastvale Gateway	Hamner	\$255,000	\$255,000
Northwest	Eastvale	Limonite	Hamner	Sumner	\$1,094,000	\$1,094,000
	Eastvale	Limonite				
Northwest			Sumner	Harrison	\$497,000	\$497,000
Northwest	Eastvale	Limonite	Harrison	Archibald	\$0	\$0
Northwest	Eastvale	Limonite	Archibald	Hellman (Keller SBD Co.)	\$2,208,000	\$2,208,000
Northwest	Eastvale	Limonite	Cucamonga Creek	bridge	\$13,920,000	\$0
Northwest	Eastvale	River	Hellman	Archibald	\$5,948,000	\$5,948,000
Northwest	Jurupa Valley	Armstrong	San Bernardino County	Valley	\$6,192,000	\$6,192,000
Northwest	Jurupa Valley	Bellegrave	Cantu-Galleano Ranch	Van Buren	\$464,000	\$464,000
Northwest	Jurupa Valley	Cantu-Galleano Ranch	Wineville	Bellegrave	\$793,000	\$793,000
Northwest	Jurupa Valley	Etiwanda	Philadelphia	SR-60	\$1,515,000	\$989,000
Northwest	Jurupa Valley	Etiwanda	SR-60	Limonite	\$0	\$0
			I-15	Wineville	\$0	\$0
Northwest	Jurupa Valley	Limonite				
Northwest	Jurupa Valley	Limonite	Wineville	Etiwanda	\$0	\$0
Northwest	Jurupa Valley	Limonite	Etiwanda	Van Buren	\$2,981,000	\$2,981,000
Northwest	Jurupa Valley	Limonite	Van Buren	Clay	\$0	\$0
Northwest	Jurupa Valley	Limonite	Clay	Riverview	\$0	\$0
Northwest	Jurupa Valley	Market	Rubidoux	Santa Ana River	\$5,181,000	\$0
Northwest	Jurupa Valley	Market	Santa Ana River	bridge	\$13,920,000	\$6,204,000
Northwest	Jurupa Valley	Mission	Milliken	SR-60	\$0	\$0
Northwest	Jurupa Valley	Mission	SR-60	Santa Ana River	\$0	\$0
Northwest	Jurupa Valley	Riverview	Limonite	Mission	\$0	\$0
Northwest	Jurupa Valley	Rubidoux	Pine	Mission	\$0	\$0
						\$9.051.000
Northwest	Jurupa Valley	Rubidoux	SR-60	interchange	\$32,698,000	4
Northwest	Jurupa Valley	Valley	Armstrong	Mission	\$0	\$0
Northwest	Norco	1 st	Parkridge	Mountain	\$0	\$0
Northwest	Norco	1 st	Mountain	Hamner	\$0	\$0
Northwest	Norco	2nd	River	I-15	\$0	\$0
Northwest	Norco	6th	Hamner	California	\$0	\$0
Northwest	Norco	6th	I-15	interchange	\$32,698,000	\$3,489,000
Northwest	Norco	Arlington	Crestview	Fairhaven	\$4,342,000	\$4,342,000
Northwest	Norco	California	Arlington	6th	\$15,237,000	\$12,525,000
Northwest	Norco	Corydon	River	5th	\$13,237,000	\$12,323,000
1401111144621					\$33,408,000	
Morthwest	Norco	Hamner	Santa Ana River	bridge		\$11,455,000
Northwest	Norco	Hamner	Santa Ana River	Hidden Valley	\$49,591,000	\$49,591,000
Northwest				Norco Hills	\$0	\$0
Northwest Northwest	Norco	Hidden Valley	I-15			
Northwest Northwest Northwest	Norco Norco	Hidden Valley	Hamner	I-15	\$0	\$0
Northwest Northwest	Norco					
Northwest Northwest Northwest	Norco Norco	Hidden Valley	Hamner	I-15	\$0	\$0

Table 4.4 - TUMF Network Cost Estimates (continued)

AREA PLAN DIST		STREETNAME	SEGMENTFROM	SEGMENTTO		MUM TUMF SHAF
Northwest	Riverside	14th	Market	Martin Luther King	\$0	3
Northwest	Riverside	1st 3rd	Market SR-91	Main	\$0	#1.041.00
Northwest	Riverside		OIL 7 I	I-215	\$1,941,000	\$1,941,00
Northwest	Riverside	3rd	BNSF	railroad crossing	\$105,560,000	\$30,560,00
Northwest	Riverside	Adams	Arlington	SR-91	\$0	9
Northwest	Riverside	Adams	SR-91	Lincoln	\$0	#2.040.00
Northwest	Riverside	Adams	SR-91	interchange	\$32,698,000	\$3,262,00
Northwest	Riverside	Arlington	Fairhaven	La Sierra	\$0	9
Northwest	Riverside	Buena Vista	Santa Ana River	Redwood	\$0	9
Northwest	Riverside	Canyon Crest	Martin Luther King	Central	\$0	9
Northwest	Riverside	Canyon Crest	Central	Country Club	\$0	9
Northwest	Riverside	Canyon Crest	Country Club	Via Vista	\$4,996,000	\$1,593,00
Northwest	Riverside	Canyon Crest	Via Vista	Alessandro	\$0	9
Northwest	Riverside	Central	Chicago	I-215/SR-60	\$0	9
Northwest	Riverside	Central	SR-91	Magnolia	\$0	9
Northwest	Riverside	Central	Alessandro	SR-91	\$0	9
Northwest	Riverside	Central	Van Buren	Magnolia	\$0	9
Northwest	Riverside	Chicago	Alessandro	Spruce	\$0	9
Northwest	Riverside	Chicago	Spruce	Columbia	\$0	9
Northwest	Riverside	Columbia	Main	lowa	\$0	3
Northwest	Riverside	Columbia	I-215	interchange	\$32,698,000	\$9,050,00
Northwest	Riverside	lowa	Center	3rd	\$30,272,000	\$30,272,00
Northwest	Riverside	lowa	3rd	University	\$0	9
Northwest	Riverside	lowa	University	Martin Luther King	\$0	
Vorthwest	Riverside	JFK	Trautwein	Wood	\$1,880,000	\$1,880,00
Vorthwest	Riverside	La Sierra	Arlington	SR-91	\$0	:
Vorthwest	Riverside	La Sierra	SR-91	Indiana	\$192,000	\$192,0
Northwest	Riverside	La Sierra	Indiana	Victoria	\$778,000	\$778,00
Northwest	Riverside	Lemon (NB One way)	Mission Inn	University	\$0	
Northwest	Riverside	Lincoln	Van Buren	Jefferson	\$0	
Vorthwest	Riverside	Lincoln	Jefferson	Washington	\$0	
Vorthwest	Riverside	Lincoln	Washington	Victoria	\$0	
Northwest	Riverside	Madison	SR-91	Victoria	\$853,000	\$853,0
Northwest	Riverside	Madison	SN-71 RNSF	railroad crossing	\$20,010,000	\$20,010,0
	Riverside		51101			
Vorthwest		Magnolia	BNSF Railroad	Tyler	\$0	
Vorthwest	Riverside	Magnolia	BNSF	railroad crossing	\$0	:
Northwest	Riverside	Magnolia	Tyler	Harrison	\$0	
Northwest	Riverside	Magnolia	Harrison	14th	\$0	:
Northwest	Riverside	Main	1st	San Bernardino County	\$0	:
Northwest	Riverside	Market	14th	Santa Ana River	\$9,491,000	\$9,491,00
Northwest	Riverside	Martin Luther King	14th	I-215/SR-60	\$24,031,000	\$24,031,00
Northwest	Riverside	Mission Inn	Redwood	Lemon	\$0	
Northwest	Riverside	Redwood (SB One way)	Mission Inn	University	\$0	:
Northwest	Riverside	Trautwein	Alessandro	Van Buren	\$0	:
Northwest	Riverside	Tyler	SR-91	Magnolia	\$0	
Northwest	Riverside	Tyler	SR-91	interchange	\$63,061,000	\$21,814,0
Vorthwest	Riverside	Tyler		Hole	\$0	\$21,014,0
			Magnolia			
Northwest	Riverside	Tyler	Hole	Wells	\$0	
Vorthwest	Riverside	Tyler	Wells	Arlington	\$0	
Vorthwest	Riverside	University	Redwood	SR-91	\$859,000	\$859,0
Vorthwest	Riverside	University	SR-91	I-215/SR-60	\$2,067,000	\$2,067,0
Vorthwest	Riverside	Victoria	Lincoln	Arlington	\$0	
Vorthwest	Riverside	Victoria	Madison	Washington	\$0	
Vorthwest	Riverside	Washington	Victoria	Hermosa	\$27,018,000	\$27,018,0
Vorthwest	Riverside	Wood	JFK	Van Buren	\$3,053,000	\$3,053,0
Vorthwest	Riverside	Wood	Van Buren	Bergamont	\$0	φο,οσο,ο
Vorthwest	Riverside	Wood	Bergamont	Krameria	\$0	
Northwest		Cantu-Galleano Ranch	Hamner	Wineville	\$0 \$0	
Vorthwest		Dos Lagos (Weirick)	Temescal Canyon	I-15	\$0	
Vorthwest	Unincorporated		I-15	Ontario	\$0	
Vorthwest	Unincorporated		Mockingbird Canyon	Cajalco	\$0	
Northwest	Unincorporated		Washington	Scottsdale	\$0	
Northwest	Unincorporated		Scottsdale	Cajalco	\$0	
Northwest	Unincorporated		Victoria	El Sobrante	\$0	
Vorthwest	Unincorporated	La Sierra	El Sobrante	Cajalco	\$0	
Northwest		Mockingbird Canyon	Van Buren	El Sobrante	\$20,871,000	\$20,871,0
Northwest		Temescal Canyon	El Cerrito	Tuscany	\$3,168,000	4
Vorthwest		Temescal Canyon	Tuscany	Dos Lagos	\$0	
Vorthwest		Temescal Canyon	Dos Lagos	Leroy	\$0 \$0	
Vorthwest		Temescal Canyon	Lerov	Dawson Canyon	\$0 \$0	
			,			
Vorthwest		Temescal Canyon	Dawson Canyon	I-15	\$0	#20 (00.0
Vorthwest		Temescal Canyon	I-15	interchange	\$32,698,000	\$32,698,0
Vorthwest		Temescal Canyon	I-15	Park Canyon	\$14,329,000	\$14,329,0
Vorthwest		Temescal Canyon	Park Canyon	Indian Truck Trail	\$0	
		Marabin arkan	Hermosa	Harley John	¢10.707.000	\$12,787,0
Northwest	Unincorporated	washingion	nemosa	nariey John	\$12,787,000	\$12,537,0

Table 4.4 - TUMF Network Cost Estimates (continued)

Poss Borning Sun Loles Smith Creek bridge \$3,532,000 Poss Borning Sun Loles Highland Springs Highland Home 30 Poss Borning Sun Lokes Highland Springs Highland Home 30 Poss Borning Surset H. ID Highland Home 30 Poss Borning Surset H. ID Interchange 32,2690,00 Poss Borning Surset H. ID Highland Home 30 Poss Bournant Hst Viele Pennsylvania 50 Poss Beournant Hst Pennsylvania 40 Poss Beournant Ost Valley (Highl Highland Springs 50 Poss Beournant Ost Valley (Highl Highland Springs 10 Poss Beournant Ost Valley (Highl Ost Valley (Highl Ost Valley (Highl Poss Beournant Ost Valley (Highl Ost Valley (Highl Ost Valley (Highl Poss Beournant <th>AREA PLAN DIST</th> <th></th> <th></th> <th>SEGMENTFROM</th> <th>SEGMENTTO</th> <th>TOTAL COST</th> <th>MAXIMUM TUMF SHARE</th>	AREA PLAN DIST			SEGMENTFROM	SEGMENTTO	TOTAL COST	MAXIMUM TUMF SHARE
Poss Bomning Ramey I-IO Bith \$0 Poss Bomning SR-243 I-IO Westley \$0 Poss Bomning SR-243 I-IO Westley \$3.55.00.0 \$ Poss Bomning Sun Lotes Highland Home \$3.55.00.0 \$ Poss Bomning Sun Lotes Montgamery Creek bridge \$3.56.00.0 \$ Poss Bomning Sun Lotes Highland Springs Highland Home \$0 \$ Poss Bomning Sursel Romeny Lincoln \$0 \$ Poss Bomning Sursel Highland Springs Highland Home \$0 \$ Poss Bomning Wise Highland Springs Highland Springs \$0 \$0 Poss Bournet I.1 Person Highland Springs Highland Springs \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0							\$0
Poss Bonning Ros-24 I-IO Weeley \$30 Poss Bonning Se-24 I-IO Weeley \$30 Poss Bonning Sun Lokes Highland Home Sunset \$35,50,000 \$3 Poss Bonning Sun Lokes Michael Highland Springs Highland Springs \$3,55,000 \$3 Poss Bonning Sunset Highland Springs Highland Home \$3 \$3 Poss Bonning Sunset I-IO Interchinge \$32,498,000 \$ Poss Bonning Wison Highland Home \$1 \$1 Highland Springs Highland Home \$3 \$2,498,000 \$ Poss Bonning Wison Highland Springs Highland Home \$3 \$2,498,000 \$3 Poss Boundard Wison Highland Springs Highland Springs \$3 \$3 \$4 \$4 \$4 \$4 \$4 \$4 \$4 \$4 \$4 \$4 \$4 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>\$0</td>							\$0
Pass Bonning SE-243 I-IO Westley 50 Poss Bonning Suntakes Highland Home Surset \$30,502,000 \$3 Poss Bonning Suntakes Smith Creek biddge \$3,556,000 \$4 Poss Bonning Suntake Montgomery Creek bidge \$3,556,000 \$5 Poss Bonning Surset Roman Roman Roman \$5 Poss Bonning Surset I-IO interchange \$32,498,000 \$ Poss Bonning Wison Highland Spring Interchange \$32,498,000 \$ Poss Bonning Wison Highland Spring Bill \$3 \$3 Poss Beaumont Highland Spring Highland Spring \$3 \$3 \$3 Poss Beaumont Cold Valley (Hel) Permaylund Cold Valley (Hel) Permaylund \$3 Poss Beaumont Ock Valley (Stock) Permaylund \$3							\$0
Pass Bonning Sun Lakes Hijhlond Home Sunzel \$30,502,000 \$88,382,000 Pass Bonning Sun Lakes Montgomey Creek bridge \$3,554,000 Pass Bonning Sun Lakes Montgomey Creek bridge \$3,554,000 Pass Bonning Sun Lakes Highland Home 30 Pass Bonning Sun Lakes Highland Home 81 Pass Bonning Wilson Highland Home \$0 Pass Bonning Wilson Highland Springs Highland Home \$0 Pass Bonning Wilson Highland Springs Highland Home \$0 Pass Bounnert Lock Valley (14th) Highland Home Highland Home \$0 Pass Bounnert Col Valley (14th)							\$0
Poss Bonning Sun Lotes Smith Creek bidge \$8,322,000 Poss Bonning Sun Lotes Highland Springs Highland Home \$3 Poss Bonning Sun Lotes Highland Springs Highland Home \$3 Poss Bonning Wilson Highland Home \$3 Poss Bonning Wilson Highland Home \$0 Poss Bonning Wilson Highland Home \$0 Poss Boumont 1st Viele Pennsylvania \$0 Poss Boumont 1st Viele Pennsylvania \$0 Poss Boumont Dout Hum Gongainan \$0 \$0 Poss Boumont Dout Valley (Highl Pennsylvania \$0 \$0 Poss Boumont Ook Valley (Highl Pennsylvania \$0 \$0 Poss Boumont Ook Valley (Highl Pennsylvania \$0 \$0 Poss Boumont Ook Valley (Highl							\$0
Poss Bonning Sun Lotes Montpornery Creek Erigine (ge \$5,56,000 Poss Bonning Sunset Romsey Lincoin \$0 Poss Bonning Surset Romsey Lincoin \$0 Poss Bonning Wiston Highland Springs Lincoin \$3 Poss Bounner Wiston Highland Springs \$1 Poss Beaumont 151 Visite Pennsylvonic \$0 Poss Beaumont 151 Pennsylvonic Highland Springs \$0 Poss Beaumont Deset Lown Chomplons Ook Valley Sirify \$0 Poss Beaumont Ook Valley (Hith) Highland Springs \$0 \$0 Poss Beaumont Ook Valley (Hith) Highland Springs Pennsylvonic \$0 \$0 Poss Beaumont Ook Valley (Hith) Highland Springs \$0 \$0 \$0 Poss Beaumont Ook Valley (SIC) UP Relleod Livery Ca							\$30,502,000
Pass Banning Sun Lotes Highland Springs Highland Home 30 Pass Banning Sunset I-10 Infactanage \$3 Pass Banning Wilson Highland Springs Highland Home \$3 Pass Banning Wilson Highland Springs Highland Springs \$3 Pass Beaumont Hill I-10 Highland Springs \$3 Pass Beaumont Hill I-10 Highland Springs \$3 Pass Beaumont Deset Low Champlons Ook Valley (Hill) \$4 Pass Beaumont Ook Valley (Hill) Highland Springs Pennsylvania \$3 Pass Beaumont Ook Valley (Hill) Highland Springs Pennsylvania \$3 Pass Beaumont Ook Valley (Hill) Highland Springs Pennsylvania \$3 Pass Beaumont Ook Valley (Hill) Hill Pennsylvania Hill Pass Beaumont Ook Valley (Hill) Hill <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>\$8,352,000</td>							\$8,352,000
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	suri Jacinto	uriincorporated	2K-/≯ (WINCHESTER)	SK-/4 (FIOFICIA)	Domenigoni	\$0	\$0

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July 25, 2024

Table 4.4 - TUMF Network Cost Estimates (continued)

AREA PLAN DI		STREETNAME	SEGMENTFROM	SEGMENTTO		(IMUM TUMF SHARE
Southwest	Lake Elsinore	Corydon	Mission	Grand	\$3,336,000	\$3,336,000
Southwest Southwest	Lake Elsinore	Diamond	Mission	I-15	\$0	\$0,400,000
souriwesi	Lake Elsinore	Franklin (integral to Railroad Canyon Interchange)	I-15	interchange	\$32,698,000	\$32,698,000
Southwest	Lake Elsinore	Grand	Lincoln	Toff	\$0	\$0
Southwest	Lake Elsinore	Grand	Toff	SR-74 (Riverside)	\$3,512,000	\$3,512,000
Southwest	Lake Elsinore	Lake	I-15	Lincoln	\$39,817,000	\$32,726,000
outhwest	Lake Elsinore	Lake	I-15	interchange	\$32,698,000	\$15,771,000
Southwest	Lake Elsinore	Lake	Temescal Wash	bridge	\$2,506,000	\$1,150,000
Southwest	Lake Elsinore	Mission	Railroad Canyon	Bundy Canyon	\$0	\$0
outhwest	Lake Elsinore	Nichols	I-15	Lake	\$7,850,000	\$7,850,000
Southwest	Lake Elsinore	Nichols	Temescal Wash	bridge	\$4,176,000	\$4,176,000
Southwest	Lake Elsinore	Nichols	I-15	interchange	\$63,061,000	\$63,061,000
Southwest	Lake Elsinore	SR-74 (Collier/Riverside)	I-15	Lakeshore	\$24,303,000	\$24,303,000
Southwest	Lake Elsinore	SR-74 (Grand)	Riverside	SR-74 (Ortega)	\$9,733,000	\$3,691,000
Southwest	Lake Elsinore	SR-74 (Riverside)	Lakeshore	Grand	\$20,175,000	\$20,175,000
Southwest	Lake Elsinore	Temescal Canyon	I-15	Lake	\$7,411,000	\$7,411,000
Southwest	Lake Elsinore	Temescal Canyon	Temescal Wash	bridge	\$3,480,000	\$3,480,000
Southwest	Murrieta	California Oaks	Jefferson	I-15	\$0	\$0
Southwest	Murrieta	California Oaks	I-15	Jackson	\$0	\$0
Southwest	Murrieta	California Oaks	Jackson	Clinton Keith	\$0	\$0
Southwest	Murrieta	Jackson	Whitewood	Ynez	\$0	\$0
Southwest	Murrieta	Jefferson	Palomar	Nutmeg	\$1,562,000	\$1,562,000
Southwest	Murrieta	Jefferson	Nutmeg	Murrieta Hot Springs	\$0	\$0
Southwest	Murrieta	Jefferson	Murrieta Hot Springs	Cherry	\$30,634,000	\$30,634,000
Southwest	Murrieta	Keller	I-215	Whitewood	\$0	\$0
Southwest	Murrieta	Keller	I-215	interchange	\$0	\$0
Southwest	Murrieta	Los Alamos	Jefferson	I-215	\$0	\$(
Southwest Southwest	Murrieta Murrieta	Murrieta Hot Springs Murrieta Hot Springs	Jefferson I-215	I-215 Margarita	\$0 \$0	\$0 \$0
Southwest	Murrieta	Murrieta Hot Springs		SR-79 (Winchester)	\$4,057,000	\$3,899,000
Southwest	Murrieta	Nutmeg	Margarita Jefferson	Clinton Keith		\$3,677,000 \$0
Southwest	Murrieta	Whitewood	Clinton Keith	Los Alamos	\$0 \$2,708,000	\$2,708,000
Southwest	Murrieta	Whitewood	Los Alamos	Murrieta Hot Springs	\$2,708,000	\$2,708,000
Southwest	Murrieta	Whitewood	Murrieta Hot Springs	Jackson	\$4,629,000	\$4,629,000
Southwest	Murrieta	Ynez	Jackson	SR-79 (Winchester)	\$4,827,000	\$4,627,000
Southwest	Temecula	Butterfield Stage	Murrieta Hot Springs	Calle Chapos	\$816,000	\$816,000
Southwest	Temecula	Butterfield Stage	Calle Chapos	La Serena	\$696,000	\$696,000
Southwest	Temecula	Butterfield Stage	La Serena	Rancho California	\$904,000	\$904,000
Southwest	Temecula	Butterfield Stage	Rancho California	Pauba	\$846,000	\$846,000
Southwest	Temecula	Butterfield Stage	Pauba	SR-79 (Temecula Pkwy)	\$725,000	\$725,000
Southwest	Temecula	Jefferson	Cherry	Rancho California	\$2,285,000	\$2,285,000
Southwest	Temecula	Margarita	Murrieta Hot Springs	SR-79 (Temecula Pkwy)	\$7,644,000	\$7,644,000
Southwest	Temecula	Old Town Front	Rancho California	I-15/SR-79 (Temecula Pkwy)	\$0	\$(
Southwest	Temecula	Pechanga Pkwy	SR-79 (Temecula Pkwy)	Via Gilberto	\$0	\$0
Southwest	Temecula	Pechanga Pkwy	Via Gilberto	Pechanga Pkwy	\$0	\$0
Southwest	Temecula	Rancho California	Jefferson	Margarita	\$18,254,000	\$18,181,000
Southwest	Temecula	Rancho California	I-15	interchange	\$32,698,000	\$(
Southwest	Temecula	Rancho California	Margarita	Butterfield Stage	\$0	\$0
Southwest	Temecula	SR-79 (Temecula Pkwy)	I-15	Pechanga Pkwy	\$0	\$0
Southwest	Temecula	SR-79 (Temecula Pkwy)	Pechanga Pkwy	Butterfield Stage	\$3,065,000	\$3,065,000
Southwest	Unincorporated		Scott	SR-79 (Winchester)	\$6,509,000	\$6,509,000
Southwest		Butterfield Stage	Tucalota Creek	bridge	\$0	\$0
Southwest		Butterfield Stage (Pourroy)	Auld	Murrieta Hot Springs	\$23,076,000	\$23,076,000
Southwest	Unincorporated		Ortega	Corydon	\$68,025,000	\$68,025,000
outhwest		Horsethief Canyon	Temescal Canyon	I-15	\$0	\$0
Southwest		Indian Truck Trail	Temescal Canyon	I-15	\$0	\$0
Southwest		Murrieta Hot Springs	SR-79 (Winchester)	Pourroy	\$0	\$0
Southwest	Unincorporated		Pechanga	San Diego County	\$0	\$0
Southwest	Unincorporated	Pourroy	SR-79 (Winchester)	Auld	\$2,236,000	\$2,236,000
Southwest		Rancho California	Butterfield Stage	Glen Oaks	\$87,369,000	\$87,369,000
Southwest		Temescal Canyon	Horsethief Canyon Wash	bridge	\$3,340,000	\$3,340,000
Southwest	Unincorporated	Temescal Canyon	Indian Truck Trail	I-15	\$15,739,000	\$15,739,000
Southwest		Temescal Canyon	Indian Wash	bridge	\$1,462,000	\$1,462,000
Southwest	Wildomar	Bundy Canyon	Mission	I-15	\$9,704,000	\$9,704,000
Southwest	Wildomar	Grand	Corydon	Wildomar Trail	\$0	\$0
Southwest	Wildomar	Mission	Bundy Canyon	Palomar	\$0	\$0
Southwest	Wildomar	Palomar	Clinton Keith	Washington	\$3,227,000	\$3,227,000
Southwest	Wildomar	Palomar	Mission	Clinton Keith	\$13,493,000	\$13,493,000
Southwest	Wildomar	Wildomar Trail	I-15	Baxter	\$1,281,000	\$1,281,000
Southwest	Wildomar	Wildomar Trail	I-15	interchange	\$32,698,000	\$27,858,000
Southwest	Wildomar	Wildomar Trail	Baxter	Palomar	\$11,316,000	\$11,316,000
Southwest	Wildomar	Wildomar Trail	Palomar	Grand	\$0	\$0
Subtotal					\$2,508,329,000	\$1,913,028,000
	Mahaari				640.000.000	#0.07 · 705 5
	Network				\$4,840,250,000	\$3,874,735,000
Totals						\$154,831,000
Iotals	Transit				\$217,870,000	
Totals	Administration				\$161,183,000	\$161,183,000
Totals						

Table 4.5 – TUMF Transit Cost Estimates

AREA PLAN DIST	LEAD AGENCY	PROJECT NAME	LOCATION	UNITS (number/ length in miles)	UNIT COST	TOTAL	MAXIMUM TUMF SHARE
Central	RTA	Menifee Mobility Hub	Menifee	1	\$7,465,000	\$7,465,000	\$5,305,000
Northwest	RTA	Riverside Mobility Hub at Vine Street	Riverside	1	\$11,195,000	\$11,195,000	\$7,956,000
Central	RTA	Moreno Valley Mobility Hub(s)	Moreno Valley	1	\$11,195,000	\$11,195,000	\$7,956,000
Northwest	RTA	Jurupa Valley Mobility Hub(s)	Jurupa Valley	1	\$11,195,000	\$11,195,000	\$7,956,000
Pass	RTA	Pass Area Mobility Hub(s)	Banning	1	\$11,195,000	\$11,195,000	\$7,956,000
Southwest	RTA	Lake Elsinore / Canyon Lake Mobility Hub(s)	Lake Elsinore	1	\$11,195,000	\$11,195,000	\$7,956,000
San Jacinto	RTA	Hemet Mobility Hub	Hemet	1	\$11,195,000	\$11,195,000	\$7,956,000
San Jacinto	RTA	San Jacinto Mobility Hub	San Jacinto	1	\$11,195,000	\$11,195,000	\$7,956,000
San Jacinto	RTA	MSJC Mobility Hub	San Jacinto	1	\$1,245,000	\$1,245,000	\$885,000
Regional	RTA	ZEB Technology Enhancements	Various locations region wide	10	\$100,000	\$1,000,000	\$711,000
Northwest	RTA	Regional Operations and Maintenance Facility	Riverside	1	\$62,186,000	\$62,186,000	\$44,192,000
Regional	RTA	Annual Transit Enhancements Program	Various locations region wide	290	\$50,000	\$14,500,000	\$10,304,000
Northwest	RTA	HQTC Improvements	UCR, Riverside to Perris	42	\$75,000	\$3,150,000	\$2,239,000
Regional	RTA	Vehicle Fleet Small Buses/Vans	Various locations region wide	30	\$160,000	\$4,800,000	\$3,411,000
Regional	RTA	Vehicle Fleet Medium Buses	Various locations region wide	20	\$300,000	\$6,000,000	\$4,264,000
Regional	RTA	Vehicle Fleet Large Buses	Various locations region wide	29	\$1,271,000	\$36,859,000	\$26,194,000
Regional	RTA	COA Study	Various locations region wide	2	\$1,150,000	\$2,300,000	\$1,634,000
TOTAL						\$217,870,000	\$154,831,000

4.8 TUMF Network Evaluation

To assess the effectiveness of the proposed TUMF Network improvements to mitigate the cumulative regional impact of new development in Western Riverside County, the proposed network improvements were added to the 2021 existing network in RivCoM and the model was run with 2045 socioeconomic data to determine the relative impacts on horizon year traffic conditions. To quantify the impacts of the TUMF Network improvements, the various traffic measures of effectiveness described in **Section 3.1** for the 2018 Existing and 2045 No-Build scenarios were again calculated for the 2045 TUMF Build scenario. The results for VMT, VHT, VHD, and total VMT experiencing unacceptable level of service (LOS E) were then compared to the results presented in **Table 3.1** for the no-build conditions. The 2045 TUMF Build comparison results are provided in **Table 4.6**. Plots of the Network Extents are attached in **Appendix H**.

As shown in **Table 4.6**, the 2045 peak period VMT on all arterial facilities experiencing LOS of E or worse will decrease with the addition of the TUMF Network improvements while the share of VMT on the TUMF arterial network experiencing LOS E or worse during the peak periods will be reduced to 32% (which is still above the level experienced in 2018). It should be noted that the total VMT on the arterial system **increases** because of freeway trips being diverted to the arterial system to benefit from the proposed TUMF improvements.

Despite a greater share of the total peak period VMT in 2045, the arterial system can more efficiently accommodate the increased demand with the proposed TUMF improvements. Although peak period VMT on the TUMF improved arterial system increases by approximately 6% in 2045 compared to the No Build condition, VHT on the arterial system remains almost constant. Additionally, a benefit is observed on the

freeway system with VMT and VHT being reduced following TUMF Network improvements. By completing TUMF improvements, the total VHD experienced by all area motorists would be reduced during the peak period by over 7% from the levels that would be experienced under the 2045 No-Build scenario. These results highlight the effectiveness of the TUMF Program to mitigate the cumulative regional transportation impacts of new development commensurate with the level of impact being created.

Table 4.6 – Regional Highway System Measures of Performance (2018 Existing and 2045 No-Build Scenarios to 2045 TUMF Build Scenario)

	Pe	ak Periods (Total))
Measure of Performance*	2018 Existing	2045 No-Build	2045 Build
VMT - Total ALL FACILITIES	23,284,724	29,897,254	30,160,328
VMT - FREEWAYS	13,514,522	15,490,284	15,418,548
VMT - ALL ARTERIALS	9,770,202	14,406,970	14,741,781
TOTAL - TUMF ARTERIAL VMT	6,216,985	8,597,200	9,096,417
VHT - TOTAL ALL FACILITIES	541,350	915,439	895,725
VHT - FREEWAYS	263,792	399,128	388,847
VHT - ALL ARTERIALS	277,558	516,311	506,878
TOTAL TUMF ARTERIAL VHT	174,455	320,869	321,062
VHD - TOTAL ALL FACILITIES	108,900	338,056	313,288
VHD - FREEWAYS	66,156	170,649	161,528
VHD - ALL ARTERIALS	42,745	167,407	151,760
TOTAL TUMF ARTERIAL VHD	33,249	124,863	114,451
VMT LOS E - TOTAL ALL FACILITIES	5,605,070	13,369,483	12,788,016
VMT LOS E - FREEWAYS	4,725,471	9,316,891	9,115,937
VMT LOS E & F - ALL ARTERIALS	879,599	4,052,592	3,672,079
TOTAL TUMF ARTERIAL VMT w/ LOS E or worse	765,782	3,184,133	2,929,288
% of TUMF ARTERIAL VMT w/ LOS E or worse	12%	37%	32%

^{*} Source: RivCoM 2018 base network and SCAG 2020 RTP/SCS SED with updated 2021 arterial network as existing in December 2021 and RivCoM 2018 base network and SCAG 2020 RTP/SCS SED with updated 2021 arterial network plus future TUMF network projects.

NOTES:

Volume is adjusted by PCE factor

VMT = vehicle miles of travel (the total combined distance that all vehicles travel on the system)

VHT = vehicle hours of travel (the total combined time that all vehicles are traveling on the system)

VHD = vehicle hours of delay (the total combined time that all vehicles have been delayed on the system based on the difference between forecast travel time and free-flow (ideal) travel time)

LOS = level of service (based on forecast volume to capacity ratios).

LOS E or Worse was determined by V/C ratio that exceeds 0.9 thresholds as indicated in the Riverside County General Plan.

5.0 TUMF NEXUS ANALYSIS

The objective of this section is to evaluate and document the rational nexus (or reasonable relationship) between the proposed fee and the transportation system improvements it will be used to help fund. The analysis starts by documenting the correlation between future development and the need for transportation system improvements on the TUMF network to mitigate the cumulative regional impacts of this new development, followed by analysis of the nexus evaluation of the key components of the TUMF concept.

5.1 Future Development and the Need for Improvements

Previous sections of this report documented the projected population, household and employment growth in Western Riverside County, the expected increases in traffic congestion and travel delay, and the identification of the transportation system improvements that will serve these future inter-community travel demands. The following points coalesce this information in a synopsis of how the future growth relates to the need for improvements to the TUMF system.

- Western Riverside County is expected to continue growing.

 Development in Western Riverside County is expected to continue at a robust rate of growth into the foreseeable future. Current projections estimate the population is projected to grow from a level of approximately 1.91 million in 2018 to a future level of about 2.53 million in 2045, while employment is projected to grow from a level of about 570,000 in 2018 to approximately 846,000 in 2045 (as shown in **Table 2.3**).
- Continuing growth will result in increasing congestion on arterial roadways. Traffic congestion and delay on arterial roadways are projected to increase dramatically in the future (as shown in **Table 3.1**). Without improvements to the transportation system, congestion levels will grow rapidly and travelers will experience unacceptable travel conditions with slow travel speeds and lengthy delays.
- > The future arterial roadway congestion is directly attributable to future development in Western Riverside County.

Traffic using arterial roadways within Western Riverside County is virtually all generated within or attracted to Western Riverside County, since longer-distance trips passing through the region typically use the freeway system, not arterial roadways. Therefore, the future recurring congestion problems on these roadways will be attributable to new trips that originate in, terminate in, or travel within Western Riverside County.

Capacity improvements to the transportation system will be needed to alleviate the future congestion caused by new development.

To maintain transportation service closer to current levels of efficiency, capacity enhancements will need to be made to the arterial roadway system. These enhancements could include new or realigned roads, additional lanes on existing

roads, new or expanded bridges, new or upgraded freeway interchanges, grade separation of at-grade rail crossings, or the installation of new ITS to improve traffic flows. The completion of improvements to the arterial roadway system would enhance regional mobility and reduce the total peak period vehicles hours of travel (VHT) by over 2%, reduce peak period vehicle hours of delay (VHD) by over 7%, and reduce the share of traffic experiencing congestion in the peak periods by over 4% (as shown in **Table 4.6**). The specific needs and timing of implementation will depend on the location and rate of future development, so the specific improvements to be funded by the TUMF and their priority of implementation will be determined during future project programming activities as improvement needs unfold and as TUMF funds become available.

Roads on the TUMF network are the facilities that merit improvement through this fee program.

The criteria used to identify roads for the TUMF network (future number of lanes, future traffic volume, future congestion level, and roadway function linking communities and activity centers and serving public transportation) were selected to ensure that these are the roadways that will serve inter-community travel and will require future improvement to alleviate congestion.

Improvements to the public transportation system will be needed to provide adequate mobility for transit-dependent travelers and to provide an alternative to automobile travel.

Since a portion of the population does not own an automobile and depends on public transportation for mobility, public transportation infrastructure and service will need to be enhanced and expanded to ensure continued mobility for this segment of the population. In addition, improvements to the public transportation system will be required to ensure that transit service can function as a viable option for future new Western Riverside County residents and employees who choose to avoid congestion by using public transportation.

For the reasons cited above, it can be readily concluded that there is a rational nexus between the future need for transportation improvements on the TUMF system and the future development upon which the proposed TUMF would be levied. The following sections evaluate the rational nexus in relation to the system components and the types of uses upon which the fee is assessed.

5.2 Application of Fee to System Components

As noted in **Section 3.2**, the TUMF concept includes splitting the fee revenues between the backbone system of arterials, the secondary system of arterials, and the public transportation system. This section evaluates the travel demands to determine the rational nexus between the future travel demands and the use of the fee to fund improvements to the future system components.

The split of fee revenues between the backbone and secondary highway networks is related to the proportion of highway vehicle trips that are relatively local (between

adjacent communities) and longer distance (between more distant communities but still within Western Riverside County). To estimate a rational fee split between the respective networks, the future combined AM and PM peak period travel forecast estimates were aggregated to a matrix of trips between zones to show the percentage of trips that remain within each zone in relation to the volume that travels to the other zones. This analysis was completed using the Year 2045 No-Build scenario trip tables from RivCoM.

The first step in the analysis was to create a correspondence table between the TAZs in the model and the five WRCOG TUMF zones (i.e. Northwest, Southwest, Central, Hemet/San Jacinto and Pass). The TAZs were then compressed into six districts (the five WRCOG zones and one for the rest of the SCAG region).

Table 5.1 shows the estimated peak period vehicle trips within and between each of the zones. **Table 5.2** shows the percentage of peak period vehicle trips within and between the respective zones. **Appendix I** includes the detailed RivCoM outputs used to develop the regional trip distribution profile shown in **Table 5.1** and **5.2**.

Table 5.1 - 2045 No-Build Peak Period Vehicle Trips by WRCOG Zone

From	Central	Hemet/San Jacinto	Northwest	Pass	Southwest	Outside WRCOG	TOTAL
Central	417,608	23,474	89,780	6,301	55,101	57,558	649,822
Hemet/San Jacinto	29,401	209,005	8,647	8,432	16,081	18,078	289,645
Northwest	58,578	2,684	743,234	2,687	11,032	196,041	1,014,257
Pass	8,068	7,585	6,114	110,385	908	32,334	165,395
Southwest	55,812	16,232	32,852	1,976	667,255	62,713	836,839
Outside WRCOG	33,907	7,574	192,712	24,490	33,867		292,550
TOTAL	603,375	266,554	1,073,340	154,271	784,244	366,724	3,248,507

Based on RivCoM Year 2045 No-Build scenario

Table 5.2 – 2045 No-Build Percent Peak Period Vehicle Trips By WRCOG Zone

To From	Central	Hemet/San Jacinto	Northwest	Pass	Southwest	Outside WRCOG	TOTAL
Central	64.3%	3.6%	13.8%	1.0%	8.5%	8.9%	100%
Hemet/San Jacinto	10.2%	72.2%	3.0%	2.9%	5.6%	6.2%	100%
Northwest	5.8%	0.3%	73.3%	0.3%	1.1%	19.3%	100%
Pass	4.9%	4.6%	3.7%	66.7%	0.5%	19.5%	100%
Southwest	6.7%	1.9%	3.9%	0.2%	79.7%	7.5%	100%

Based on RivCoM Year 2045 No-Build scenario

Table 5.3 summarizes the calculation of the split between the backbone and secondary highway networks as derived from the peak period trip values provided in **Table 5.1**. Peak period vehicle trips to and from areas outside Western Riverside County were subtracted from the calculation, on the presumption that most of their interregional travel would occur on the freeway system. Peak period trips <u>between</u> zones (regional) were assigned to the backbone network, since these trips are primarily served by the arterial roadways that provide connections between the zones. Peak period trips <u>within</u> zones (local) were split between the backbone network and the secondary network in proportion to their lane-miles, since roadways on both networks serve intra-zonal trips. The backbone network includes approximately 41.1% of the lane-miles on the future TUMF system, and the secondary network includes approximately 58.9% of the lane-miles.

The backbone network is therefore assigned all the inter-zonal peak period trips plus 41.1% of the intra-zonal peak period trips. The secondary network is assigned 58.9% of the intra-zonal peak period trips and none of the inter-zonal peak period trips. The overall result is that 51.1% of the regional travel is assigned to the backbone network and 48.9% is assigned to the secondary network.

Table 5.3 - Backbone-Secondary Network Share Calculation

Calculation Value Description	Input Values	Backbone Value	Backbone Share	Secondary Value	Secondary Share
Total Western Riverside County Peak Period Vehicle Trips	3,248,507				
Less Internal/External Peak Period Vehicle Trips	-659,273				
Total Peak Period Vehicle Trips Internal to Western Riverside County	2,589,234				
Peak Period Vehicle Trips Between TUMF Zones	441,747				
Peak Period Vehicle Trips Within TUMF Zones	2,147,487				
TUMF Future Network Lane-Miles	3,029.9	1,243.9	41.1%	1,786.0	58.9%
Peak Period Vehicle Trips Between TUMF Zones	441,747	441,747	100.0%	0	0.0%
Peak Period Vehicle Trips Within TUMF Zones (as share of intra- zonal trips)	2,147,487	882,332	41.1%	1,265,155	58.9%
Total Peak Period Vehicle Trips Assigned	2,589,234	1,324,079	51.1%	1,265,155	48.9%

Based on RivCoM Year 2045 No-Build scenario: TUMF Nexus Study Exhibit H-1

5.3 Application of Fee to Residential and Non-Residential Developments

In order to establish the approximate proportionality of the future traffic impacts associated with new residential development and new non-residential development, the growth in daily VMT between the 2018 Existing and 2045 No-Build Scenarios from RivCoM were aggregated by trip purpose. RivCoM produces person trips (irrespective of mode choice) on the basis of five trip purposes: home-based-work (HBW), home-based-other (HBO), home-based-school (HBS), non-home-based (NHB), and home-based-university (HBU).

NCHRP Report #187 Quick Response Urban Travel Estimation Techniques and Transferable Parameters User's Guide (Transportation Research Board, 1978) details operational travel estimation techniques that are universally used for the travel demand modeling. Chapter 2 of this report, which details trip generation estimation, 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." In accordance with NCHRP Report #187, growth in daily VMT was aggregated into home-based growth in daily VMT (combining the four home-based purposes: HBW, HBO, HBSC and HBU) and non-home-based growth in daily VMT. The home-based growth in daily VMT represents 77.7% of the total future growth in daily VMT and the non-home-based growth in daily VMT represent 22.3% of the total future growth in daily VMT, as shown in Table 5.4. Appendix J includes the RivCoM outputs used to develop the trip purpose summary in Table 5.4.

Table 5.4 - Daily VMT Growth by Trip Purpose for Western Riverside County (2018 - 2045)

VEHICLE TRIP PURPOSE	2018 EXISTING DAILY VMT	2045 NO-BUILD DAILY VMT	DAILY VMT GROWTH	DAILY VMT GROWTH SHARE
Home-Based-Work	81,121,525	98,818,811	17,697,286	31.8%
Home-Based-Other	114,840,696	138,710,519	23,869,822	42.9%
Home-Based-School (K-12)	8,592,941	9,230,272	637,331	1.1%
Non-Home-Based	61,534,566	73,907,099	12,372,533	22.3%
Home-Based-University	5,377,197	6,400,662	1,023,465	1.8%
TOTAL	271,466,925	327,067,363	55,600,437	100.00%
Home-Based Trips (Residential Uses)			43,227,904	77.7%
Non-Home-Based Trips (Non-Residential Uses)			12,372,533	22.3%

Based on RivCoM Year 2018 Existing Scenario, November 2023 and RivCoM Year 2045 No Build Scenario, November 2023

6.0 FAIR-SHARE FEE CALCULATION

The fee amounts, by type of development, that are justified to mitigate the cumulative regional impacts of new development on transportation facilities in Western Riverside County are quantified in this section. The total cost of improving the TUMF system is \$5.28 billion. Existing funding obligated for improvements to the TUMF system totals \$382.9 million while unfunded improvement needs generated by existing development represent \$646.9 million of the total cost. The balance of the unfunded TUMF system improvement needs is \$4.24 billion which is the maximum value attributable to the mitigation of the cumulative regional transportation impacts of future new development in the WRCOG region and will be captured through the TUMF Program. By levying the uniform fee directly on future new developments (and indirectly on new residents and new employees to Western Riverside County), these transportation system users are assigned their "fair share" of the costs to address the cumulative impacts of additional traffic they will generate on the regional transportation system.

Of the \$4.24 billion in unfunded future improvement needs, 77.7% (\$3.30 billion) will be assigned to future new residential development and 22.3% (\$946.5 million) will be assigned to future new non-residential development.

6.1 Residential Fees

The portion of the unfunded future improvement cost allocable to new residential development through the TUMF is \$3.30 billion. Since this future transportation system improvement need is generated by new residential development anticipated through the Year 2045, the fee will be spread between the residential developments projected to be constructed between 2018 and 2045. The projected residential growth from year 2018 to 2045 is 257,826 households (or dwelling units) as is indicated in **Table 2.3**.

Different household types generate different numbers of trips. To reflect the difference in trip generation between lower density "single-family" dwelling units and higher density "multi-family" dwelling units, the TUMF was weighted based on the respective trip generation rates of these different dwelling unit types. For the purposes of the TUMF Program, single family dwelling units are those housing units with a density of less than 8 units per acre while multi-family units are those with a density of 8 or more units per acre. According to the SCAG 2020 RTP/SCS forecasts included in **Table 2.3** and **Appendix B**, single family dwelling units (including mobile homes) are forecast to constitute 65.0% of the growth in residential dwelling units in the region between 2018 and 2045.

Data provided in the Institute of Transportation Engineers (ITE) <u>Trip Generation</u> Manual, 11th Edition (2021) show that, on average, single-family dwelling units generate 0.99 vehicle trips per dwelling unit per hour in the PM peak hour, whereas apartments, condominiums and townhouses (considered to be representative of higher density multi-family dwelling units) generate a median of 0.50 vehicle trips per unit per hour in the PM peak hour. The growth in dwelling units for single-family and multi-family, respectively, were multiplied by the corresponding trip generation rates to determine

the weighted proportion of the change in trips attributable to each use type as the basis for determining the per unit fee required to levy the necessary \$3.20 billion to mitigate the cumulative regional transportation impacts of future new residential development. **Table 6.1** summarizes the calculation of the fee for single-family and multi-family dwelling units. **Appendix K** includes worksheets detailing the calculation of the residential (and non-residential) TUMF for Western Riverside County.

Table 6.1 - Fee Calculation for Residential Share

Residential Sector	2018 Dwelling Units	2045 Dwelling Units	Dwelling Unit Change	Trip Generation Rate	Trip Change	Percentage of Trip Change	Fee/DU
Single-Family	397,407	564,898	167,491	0.99	165,816	78.6%	\$15,476
Multi-Family	157,166	247,501	90,335	0.50	45,168	21.4%	\$7,816
Total	554,573	812,399	257,826		210,984	100.0%	

Household data based on SCAG 2020 RTP/SCS; Trip Generation based on ITE <u>Trip Generation</u> (2021).

6.2 Non-Residential Fees

The portion of the unfunded future improvement cost allocable to new non-residential development through the TUMF is \$946.5 million. Estimates of employment by sector were obtained from the SCAG 2020 RTP/SCS socioeconomic data included in **Table 2.3** and **Appendix B**. From the 2045 employment forecast, the amount of employee growth in each sector was calculated. The employment figures were then translated into square footage of new development using typical ratios of square feet per employee derived from four sources including: Cordoba Corporation/Parsons Brinckerhoff Quade and Douglas (PBQD), Land Use Density Conversion Factors For Long Range Corridor Study San Bernardino and Riverside Counties, August 20, 1990; Orange County Transportation Authority (OCTA), Orange County Subarea Model Guidelines Manual, June 2001; SCAG, Employment Density Study, October 31, 2001; and the County of Riverside, General Plan, as amended December 15, 2015. Worksheets showing the development of the TUMF employee conversion factors and the application of the conversion factors to calculate the square footage of future new non-residential development in Western Riverside County are included in **Appendix L**.

To account for the differences in trip generation between various types of non-residential uses, the new non-residential development was weighted by trip generation rate for each sector. Typical trip generation rates per employee were obtained from the Institute of Transportation Engineers (ITE) <u>Trip Generation – 11th Edition</u> (2021), and were weighted based on a calculated value of trips per employee as derived from the employee conversion factors and ITE typical trip generation rates per square foot of development, before being assigned to the non-residential categories as follows: Industrial – 0.6 PM peak hour trips per employee, Retail – 1.8 PM peak hour trips per employee, Service – 1.2 PM peak hour trips per employee, and Government/Public –

2.1 PM peak hour trips per employee¹². These rates were applied to the employment growth in each sector to determine the relative contribution of each sector to new tripmaking, and the \$946.5 million was then allocated among the non-residential categories based on the percentage of new trips added. This proportionate non-residential fee share by sector was then divided by the estimated square footage of future new development to obtain the rate per square foot for each type of use. The calculation of the non-residential fee by sector is shown in **Table 6.2**.

Table 6.2 - Fee Calculation for Non-Residential Share

Non-Residential Sector	Employment Change	Trip Generation Rate per Employee	Trip Change	Percentage of Trip Change	Change in Square Feet of Gross Floor Area	Fee/SF
Industrial	76,581	0.6	45,949	15.1%	61,489,565	\$2.33
Retail	13,115	1.8	23,607	7.8%	6,557,500	\$11.21
Service	174,255	1.2	209,106	68.8%	66,735,957	\$9.76
Government/Public	12,071	2.1	25,349	8.3%	3,420,665	\$23.07
Total	276,022		304,011	100.0%	138,203,688	

Employment Change data based on SCAG 2020 RTP/SCS; Trip Generation based on ITE (2021); Change in Square Feet conversion factor based on Cordoba (1990), OCTA (2001), SCAG (2001) and County of Riverside (2015).

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 $^{^{12}}$ The median trip generation rate for 'Retail' and 'Service' was reduced to reflect the influence of pass-by trips using the weekday PM peak median pass-by trip rate for select uses as derived from the ITE $\frac{\text{Trip Generation Manual (11}^{\text{th}}}{\text{Edition}}$ (September 2021).

7.0 CONCLUSIONS

Based on the results of the Nexus Study evaluation, there is reasonable relationship between the cumulative regional transportation impacts of new land development projects in Western Riverside County and the need to mitigate these transportation impacts using funds levied through the ongoing TUMF Program. Factors that reflect this reasonable relationship include:

- Western Riverside County is expected to continue growing because of future new development.
- > Continuing new growth will result in increasing congestion on arterial roadways.
- > The future arterial roadway congestion is directly attributable to the cumulative regional transportation impacts of future development in Western Riverside County.
- Capacity improvements to the transportation system will be needed to mitigate the cumulative regional impacts of new development.
- Roads on the TUMF network are the facilities that merit improvement through this fee program.
- ➤ Improvements to the public transportation system will be needed to provide adequate mobility for transit-dependent travelers and to provide an alternative to automobile travel.

The Nexus Study evaluation has established a proportional "fair share" of the improvement cost attributable to new development based on the impacts of existing development and the availability of obligated funding through traditional sources. Furthermore, the Nexus Study evaluation has divided the fair share of the cost to mitigate the cumulative regional impacts of future new development in Western Riverside County in rough proportionality to the cumulative impacts of future residential and non-residential development in the region. The respective fee allocable to future new residential and non-residential development in Western Riverside County is summarized for differing use types in **Table 7.1**.

Table 7.1 - Transportation Uniform Mitigation Fee for Western Riverside County

Land Use Type	Units	Development Change	Fee Per Unit	Total Revenue (\$ million)
Single Family Residential	DU	167,491	\$15,476	\$2,592.0
Multi Family Residential	DU	90,335	\$7,816	\$706.1
Industrial	SF GFA	61,489,565	\$2.33	\$143.1
Retail	SF GFA	6,557,500	\$11.21	\$73.5
Service	SF GFA	66,735,957	\$9.76	\$651.1
Government/Public	SF GFA	3,420,665	\$23.07	\$78.9
MAXIMUM TUMF VALUE				\$4,244.6

8.0 APPENDICES

The following Appendices incorporate the extent of materials used to support the development of the WRCOG TUMF Nexus Study and, where appropriate, specifically the 2024 Update. The respective Appendices also incorporate an explanation of the methodology and assumptions used to develop the various elements of the Nexus Study.

These Appendices represent a compilation of materials derived from a variety of technical resources. Each of the following Appendices relate to the development of a specific element of the Nexus Study. These Appendices are as follows:

- **Appendix A List of WRCOG Committees**
- Appendix B Western Riverside County Population and Employment Growth 2018 2045
- Appendix C Western Riverside County Traffic Growth 2018 2045
- Appendix D Western Riverside County Transit System Ridership 2018 2045
- Appendix E Western Riverside County Regional System of Highways and Arterials Performance Measures
- Appendix F TUMF Network Cost Assumptions
- Appendix G TUMF 2024 Program Update Disposition of Network Change Requests
- Appendix H TUMF Network Cost Estimate and Evaluation
- Appendix I Western Riverside County Regional Trip Distribution
- Appendix J Western Riverside County Regional Trip Purpose
- Appendix K Residential Fee Calculation
- Appendix L Non-Residential Fee Calculation

Appendix A - List of WRCOG Committees

WRCOG Executive Committee

Sheri Flynn	City of Banning
Mike Lara	City of Beaumont
Wendy Hewitt	City of Calimesa
Mark Terry	City of Canyon Lake
Jacque Casillas (2nd Vice-Chair)	City of Corona
Christian Dinco	City of Eastvale
Jackie Peterson	City of Hemet
Chris Barajas (Past Chair)	City of Jurupa Valley
Brian Tisdale	City of Lake Elsinore
Bob Karwin	City of Menifee
Elena Baca-Santa Cruz	City of Moreno Valley
Lisa DeForest	City of Murrieta
Kevin Bash	City of Norco
Rita Rogers (Chair)	City of Perris
Chuck Conder	City of Riverside
Crystal Ruiz	City of San Jacinto
James Stewart	City of Temecula
Joseph Morabito	City of Wildomar
Kevin Jeffries	County of Riverside Dist. 1
Karen Spiegel	County of Riverside Dist. 2
Chuck Washington	County of Riverside Dist. 3
Yxstian Gutierrez	County of Riverside Dist. 5
Phil Paule	Eastern Municipal Water District
Dr. Edwin Gomez	Riverside County Superintendent of
DI. EUWIH GOMEZ	Schools (ex-officio)
Brenda Dennstedt (Vice-Chair)	Western Water

WRCOG Technical Advisory Committee

Doug Schulze	City of Banning
Elizabeth Gibbs	City of Beaumont
Will Kolbow	City of Calimesa
Aaron Brown	City of Canyon Lake
Brett Channing	City of Corona
Mark Orme	City of Eastvale
Mark Prestwich	City of Hemet
Rod Butler (Past Chair)	City of Jurupa Valley
Jason Simpson	City of Lake Elsinore
Armando Villa	City of Menifee
Mike Lee	City of Moreno Valley
Kim Summers	City of Murrieta
Lori Sassoon	City of Norco
Clara Miramontes (Chair)	City of Perris
Mike Futrell	City of Riverside
Rob Johnson	City of San Jacinto
Aaron Adams	City of Temecula
Dan York	City of Wildomar
Jeff Van Wagenen	County of Riverside
Joe Mouawad	Eastern Municipal Water District
Grace Martin	March Joint Power Authority
Matt Snellings	Riverside County Office of Education
Craig Miller	Western Water

WRCOG Planning Directors' Committee

	·
no new appointment made (as of 07/24/24)	City of Banning
Carole Kendrick	City of Beaumont
Kelly Lucia	City of Calimesa
Jim Morrisey	City of Canyon Lake
Joanne Coletta	City of Corona
David Murray	City of Eastvale
Monique Alaniz-Flejter	City of Hemet
Joe Perez (Chair)	City of Jurupa Valley
Damaris Abraham	City of Lake Elsinore
Cheryl Kitzerow	City of Menifee
Sean Kelleher (2nd Vice-Chair)	City of Moreno Valley
David Chantarangsu	City of Murrieta
Alma Robles	City of Norco
Kenneth Phung (Vice-Chair)	City of Perris
Judy Eguez	City of Riverside
Travis Randel	City of San Jacinto
Matt Peters	City of Temecula
Matthew Bassi	City of Wildomar
John Hildebrand	County of Riverside
Jeffrey Smith	March Joint Powers Authority
Jennifer Nguyen	Riverside Transit Agency
Ryan Shaw	Western Water

WRCOG Public Works Committee

Art Vela	City of Banning
Robert Vestal	City of Beaumont
Michael Thornton	City of Calimesa
Stuart McKibben	City of Canyon Lake
Savat Khamphou (Vice-Chair)	City of Corona
Jimmy Chung	City of Eastvale
Noah Rau	City of Hemet
Paul Toor (Chair)	City of Jurupa Valley
Remon Habib	City of Lake Elsinore
Nick Fidler	City of Menifee
Melissa Walker	City of Moreno Valley
Bob Moehling	City of Murrieta
Sam Nelson	City of Norco
John Pourkazemi	City of Perris
Gil Hernandez	City of Riverside
Stuart McKibbin (Vice-Chair)	City of San Jacinto
Patrick Thomas	City of Temecula
Jason Farag	City of Wildomar
Patricia Romo	County of Riverside
Lauren Sotelo	March Joint Powers Authority
Jillian Guizado	Riverside County Transportation Commission
Mauricio Alvarez	Riverside Transit Agency

WRCOG Finance Directors' Committee

Lincoln Bogard	City of Banning
Jennifer Ustation	City of Beaumont
Celeste Reid	City of Calimesa
Terry Shea	City of Canyon Lake
Kim Sitton	City of Corona
Amanda Wells	City of Eastvale
vacant	City of Hemet
June Overholt	City of Jurupa Valley
Shannon Buckley	City of Lake Elsinore
Travis Hickey	City of Menifee
Launa Jimenez	City of Moreno Valley
Javier Carcamo (Past Chair)	City of Murrieta
Lisette Free	City of Norco
Ernie Reyna (Chair)	City of Perris
Kristie Thomas	City of Riverside
Erika Gomez (2nd Vice-Chair)	City of San Jacinto
Jennifer Hennessy	City of Temecula
Adam Jantz	City of Wildomar
Vacant	County of Riverside
John Adams	Eastern Municipal Water District
Grace Martin	March Joint Power Authority
Dr. Ruth Perez	Riverside County Office of Education
Kevin Mascaro	Western Water

Appendix B - Western Riverside County Population and Employment Growth 2008 – 2035

Although a variety of alternate demographic information is available for the purpose of quantifying population and household growth in Western Riverside County, it was determined that the data developed by SCAG to support the 2020 RTP/SCS represented the most comprehensive source of socioeconomic data (SED) for the six-county SCAG region that includes Riverside County. The SCAG 2020 RTP/SCS SED information is disaggregated to the level of traffic analysis zones (TAZ) that comprise inputs to RivCoM. These SED data by TAZ were extracted from RivCoM (specifically the TAZ_Data.CSV file located in the PopSyn output folder) and aggregated to correspond with the TUMF zones to support this update of the TUMF Nexus. The SCAG 2020 RTP/SCS SED data retrieved from RivCoM and used as the basis for the Nexus Update is summarized in this Appendix.

The SCAG employment data for 2018 and 2045 was provided for thirteen employment sectors consistent with the California Employment Development Department (EDD) Major Groups including: Farming, Natural Resources and Mining; Construction; Manufacturing; Wholesale Trade; Retail Trade; Transportation, Warehousing and Utilities; Information; Financial Activities; Professional and Business Service; Education and Health Service; Leisure and Hospitality; Other Service; and Government. For the purposes of the Nexus Study, the SCAG Employment Categories were aggregated to Industrial (Farming, Natural Resources and Mining; Construction; Manufacturing; Wholesale Trade; Transportation, Warehousing and Utilities), Retail (Retail Trade), Service (Information; Financial Activities; Professional and Business Service; Education and Health Service; Leisure and Hospitality; Other Service) and Government/Public Sector (Government). These four agaregated sector types were used as the basis for calculating the fee as described in **Section 6.2**. This Appendix includes tables detailing the SCAG RTP/SCS SED Employment Categories and corresponding North American Industry Classification System (NAICS) Categories that are included in each nonresidential sector type.

The page is a placeholder for:

EXHIBIT B-1

Western Riverside County 2018 Socioeconomic Data (SED) by TUMF Zone

Western Riverside County Population, Households and Employment (2018) - SCAG 2020 RTP/SCS Base Year

EXHIBIT B-1
Western Riverside County Population, Households and Employment (2018) - SCAG 2020 RTP/SCS Base Year

SED Type/Zone	Central	Northwest	Pass	San Jacinto	Southwest	Total
Population		•				
Total Population	408,260	777,900	98,688	187,677	432,915	1,905,440
Households		•			-	
Single-Family	83,142	152,897	24,937	38,888	97,543	397,407
Multi-Family	26,889	63,591	8,661	26,055	31,970	157,166
Total Households	110,031	216,488	33,598	64,943	129,513	554,573
Employment						
Farming, Natural Resources and Mining	799	3,431	559	1,625	2,080	8,494
Construction	6,245	31,914	1,807	2,067	13,290	55,323
Manufacturing	4,172	25,866	1,101	925	8,902	40,966
Wholesale Trade	8,428	9,269	268	546	6,490	25,001
Retail Trade	13,346	32,061	5,472	4,564	18,371	73,814
Transportation, Warehousing and Utilities	7,349	22,686	1,132	2,132	6,251	39,550
Information	425	2,073	496	177	863	4,034
Financial Activities	1,887	8,632	586	1,003	5,414	17,522
Professional and Business Service	7,834	32,973	3,434	1,630	13,532	59,403
Education and Health Service	20,423	76,884	6,092	13,659	29,192	146,250
Leisure and Hospitality	8,391	21,990	7,207	3,726	18,270	59,584
Other Service	2,834	10,603	1,244	1,891	5,338	21,910
Government	2,579	11,727	871	761	2,631	18,569
TUMF Industrial	26,993	93,166	4,867	7,295	37,013	169,334
TUMF Retail	13,346	32,061	5,472	4,564	18,371	73,814
TUMF Service	41,794	153,155	19,059	22,086	72,609	308,703
TUMF Government/Public Sector	2,579	11,727	871	761	2,631	18,569
Total Employment	84,712	290,109	30,269	34,706	130,624	570,420

EXHIBIT B-2
Western Riverside County Population, Households & Employment (2045) - SCAG 2020 RTP/SCS Horizon Year

SED Type/Zone	Central	Northwest	Pass	San Jacinto	Southwest	Total
Population						
Total Population	594,678	925,228	158,040	289,439	566,491	2,533,876
Households						
Single-Family	133,507	181,827	43,988	70,713	134,863	564,898
Multi-Family	53,555	79,359	14,362	43,654	56,571	247,501
Total Households	187,062	261,186	58,350	114,367	191,434	812,399
Employment						
Farming, Natural Resources and Mining	712	2,212	527	1,218	2,001	6,670
Construction	18,304	48,533	3,186	5,861	20,236	96,120
Manufacturing	6,836	24,624	1,393	1,149	10,335	44,337
Wholesale Trade	6,150	9,048	324	559	6,529	22,610
Retail Trade	16,310	33,656	7,136	6,338	23,489	86,929
Transportation, Warehousing and Utilities	18,227	38,043	2,705	4,771	12,432	76,178
Information	642	2,166	476	191	1,116	4,591
Financial Activities	2,906	9,889	1,229	1,536	6,665	22,225
Professional and Business Service	14,214	41,712	6,016	4,518	21,058	87,518
Education and Health Service	52,764	111,454	13,803	25,739	51,118	254,878
Leisure and Hospitality	13,197	27,739	10,540	8,424	24,641	84,541
Other Service	5,148	13,062	1,532	2,838	6,625	29,205
Government	6,229	18,222	1,176	1,471	3,542	30,640
TUMF Industrial	50,229	122,460	8,135	13,558	51,533	245,915
TUMF Retail	16,310	33,656	7,136	6,338	23,489	86,929
TUMF Service	88,871	206,022	33,596	43,246	111,223	482,958
TUMF Government/Public Sector	6,229	18,222	1,176	1,471	3,542	30,640
Total Employment	161,639	380,360	50,043	64,613	189,787	846,442

EXHIBIT B-3
Western Riverside County Population, Households and Employment (2018 to 2045 Change) - SCAG 2020 RTP/SCS

SED Type/Zone	Central	Northwest	Pass	San Jacinto	Southwest	Total
Population						
Total Population	186,418	147,328	59,352	101,762	133,576	628,436
Households						
Single-Family	50,365	28,930	19,051	31,825	37,320	167,491
Multi-Family	26,666	15,768	5,701	17,599	24,601	90,335
Total Households	77,031	44,698	24,752	49,424	61,921	257,826
Employment						
Farming, Natural Resources and Mining	-87	-1,219	-32	-407	-79	-1,824
Construction	12,059	16,619	1,379	3,794	6,946	40,797
Manufacturing	2,664	-1,242	292	224	1,433	3,371
Wholesale Trade	-2,278	-221	56	13	39	-2,391
Retail Trade	2,964	1,595	1,664	1,774	5,118	13,115
Transportation, Warehousing and Utilities	10,878	15,357	1,573	2,639	6,181	36,628
Information	217	93	-20	14	253	557
Financial Activities	1,019	1,257	643	533	1,251	4,703
Professional and Business Service	6,380	8,739	2,582	2,888	7,526	28,115
Education and Health Service	32,341	34,570	7,711	12,080	21,926	108,628
Leisure and Hospitality	4,806	5,749	3,333	4,698	6,371	24,957
Other Service	2,314	2,459	288	947	1,287	7,295
Government	3,650	6,495	305	710	911	12,071
TUMF Industrial	23,236	29,294	3,268	6,263	14,520	76,581
TUMF Retail	2,964	1,595	1,664	1,774	5,118	13,115
TUMF Service	47,077	52,867	14,537	21,160	38,614	174,255
TUMF Government/Public Sector	3,650	6,495	305	710	911	12,071
Total Employment	76,927	90,251	19,774	29,907	59,163	276,022

Exhibit B-4a - TUMF 2024 Nexus Update

Western Riverside County Population, Households and Employment (2018-2045)

SED Type/Zone	2018	2045	Change	Percent
Total Population	1,905,440	2,533,876	628,436	33%
Total Households	554,573	812,399	257,826	46%
Single-Family	397,407	564,898	167,491	42%
Multi-Family	157,166	247,501	90,335	57%
Total Employment	570,420	846,442	276,022	48%
TUMF Industrial	169,334	245,915	76,581	45%
TUMF Retail	73,814	86,929	13,115	18%
TUMF Service	308,703	482,958	174,255	56%
TUMF Government/Public Sector	18,569	30,640	12,071	65%

Source: SCAG 2020 RTP/SCS

Exhibit B-4b - TUMF 2016 Nexus Update

Western Riverside County Population, Households and Employment (2012-2040)

SED Type/Zone	2012	2040	Change	Percent
Total Population	1,773,935	2,429,633	655,698	37%
Total Households	525,149	775,231	250,082	48%
Single-Family	366,588	539,631	173,043	47%
Multi-Family	158,561	235,600	77,039	49%
Total Employment	460,787	861,455	400,668	87%
TUMF Industrial	120,736	201,328	80,592	67%
TUMF Retail	65,888	101,729	35,841	54%
TUMF Service	253,372	528,092	274,720	108%
TUMF Government/Public Sector	20,791	30,306	9,515	46%

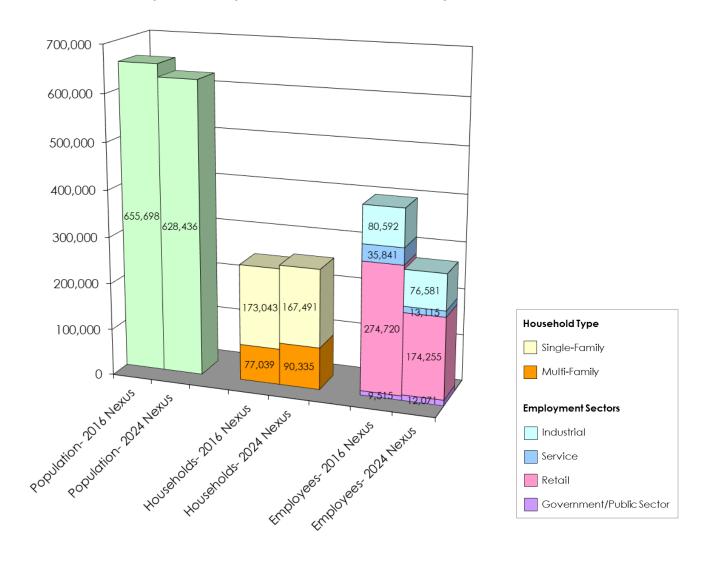
Source: SCAG 2016 RTP/SCS

Exhibit B-4c - TUMF 2016 Nexus Update to 2024 Nexus Update Comparison
Western Riverside County Population, Households and Employment (Existing to Future Change)

SED Type/Zone	2016 Update (2012-2040)	2024 Update (2018-2045)	Difference	Percent
Total Population	655,698	628,436	-27,262	-4%
Total Households	250,082	257,826	7,744	3%
Single-Family	173,043	167,491	-5,552	-3%
Multi-Family	77,039	90,335	13,296	17%
Total Employment	400,668	276,022	-124,646	-31%
TUMF Industrial	80,592	76,581	-4,011	-5%
TUMF Retail	35,841	13,115	-22,726	-63%
TUMF Service	274,720	174,255	-100,465	-37%
TUMF Government/Public Sector	9,515	12,071	2,556	27%

Source: SCAG 2016 RTP/SCS; SCAG 2020 RTP/SCS

EXHIBIT B-4d
Western Riverside County Population, Households and Employment Change (2012 to 2040 and 2018 to 2045)
TUMF 2016 Nexus Update Comparison to TUMF 2024 Nexus Update

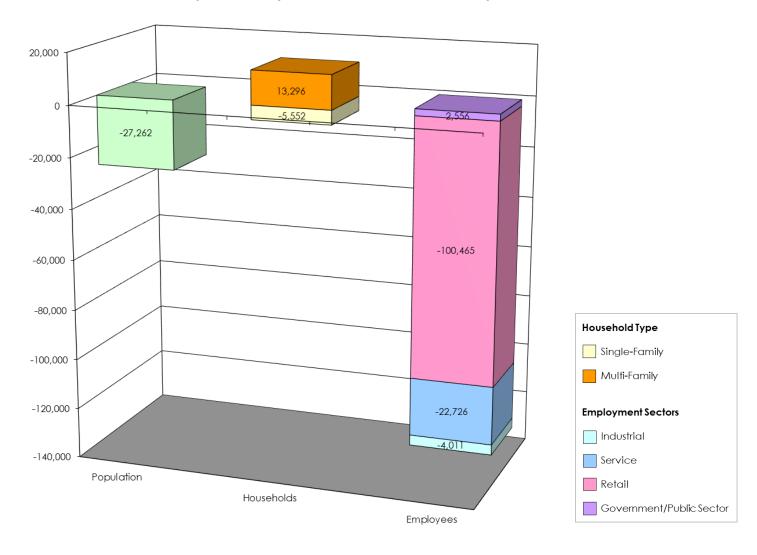


Sources:

Year 2012 to Year 2040 Growth (2016 Nexus Update): SCAG 2016 RTP/SCS; WSP, April 2016

Year 2018 to Year 2045 Growth (2024 Nexus Update): SCAG 2020 RTP/SCS

EXHIBIT B-4e
Difference in Population, Households and Employment Growth in Western Riverside County
TUMF 2016 Nexus Update Comparison to TUMF 2024 Nexus Update



Source:

Year 2012 to Year 2040 Growth (2016 Nexus Update): SCAG 2016 RTP/SCS; WSP, April 2016

Year 2018 to Year 2045 Growth (2024 Nexus Update): SCAG 2020 RTP/SCS

EXHIBIT B-5a
TUMF Non-Residential Category Detailed NAICS Correspondence Summary

THAT C :	SCAG RTP/SCS	NAICS Two I	Digit Code	NAICS Three	e Digit Code
TUMF Category	Employment Categories				e NAICS Title
dustrial	Employment calegories	JIVAICS COUC	, Italies line	INAICS COU	TANCO IIIC
laosinai	Farming, Natural Resou	rces and Mini	na		
	ranning, realistat Research	11	Agriculture, Forestry, Fishing and	Hunting	
				111	Crop Production
				112	Animal Production and Aquaculture
				113	Forestry and Logging
				114	Fishing, Hunting and Trapping
				115	Support Activities for Agriculture and Forestry
		21	Mining, Quarrying, and Oil and G		support hermites for highesticite and roleshy
			Mining, Quanying, and on and o	211	Oil and Gas Extraction
				212	Mining (except Oil and Gas)
				213	Support Activities for Mining
	Construction			210	30pport Activities for Militing
	Consilocion	23	Construction		
		25	Construction	236	Construction of Buildings
				237	Heavy and Civil Engineering Construction
				238	Specialty Trade Contractors
	Manufacturing			230	specially frade Confractors
	Manufacturing	21 22	A4 amout a atomic a		
		31-33	Manufacturing	211	Constitution for their constitutions
				311	Food Manufacturing
		1		312	Beverage and Tobacco Product Manufacturing
		1		313	Textile Mills
		1		314	Textile Product Mills
				315	Apparel Manufacturing
				316	Leather and Allied Product Manufacturing
		1		321	Wood Product Manufacturing
				322	Paper Manufacturing
				323	Printing and Related Support Activities
				324	Petroleum and Coal Products Manufacturing
				325	Chemical Manufacturing
				326	Plastics and Rubber Products Manufacturing
				327	Nonmetallic Mineral Product Manufacturing
				331	Primary Metal Manufacturing
				332	Fabricated Metal Product Manufacturing
				333	Machinery Manufacturing
				334	Computer and Electronic Product Manufacturing
				335	Electrical Equipment, Appliance, and Component Manufacturing
				337	Furniture and Related Product Manufacturing
				339	Miscellaneous Manufacturing
	Wholesale Trade			337	Miscellaneous Manufactoring
	Wildlesdie Hade	42	Wholesale Trade		
		42	Wildlesdie Hade	400	Marchant Whalasalara Durabla Canda
				423	Merchant Wholesalers, Durable Goods
				424	Merchant Wholesalers, Nondurable Goods
		٠		425	Wholesale Trade Agents and Brokers
	Transportation, Warehou				
		22	Utilities		1099
				221	Utilities
		48-49	Transportation and Warehousing		
		1		481	Air Transportation
				482	Rail Transportation
				483	Water Transportation
		1		484	Truck Transportation
		1		485	Transit and Ground Passenger Transportation
				486	Pipeline Transportation
		1		487	Scenic and Sightseeing Transportation
		1		488	Support Activities for Transportation
				491	Postal Service
		1		492	Couriers and Messengers
		1		493	Warehousing and Storage
					J. C. C. C. M.
ìail					
tail	Retail Trade				
rtail	Retail Trade	44-45	Retail Trade		
rtail	Retail Trade	44-45	Retail Trade	441	Matar Vehicle and Parts Dealers
rtail	Retail Trade	44-45	Retail Trade	441	Motor Vehicle and Parts Dealers Building Material and Gorden Fauirment and Supplier Dealers
etail	Retail Trade	44-45	Retail Trade	444	Building Material and Garden Equipment and Supplies Dealers
tail	Retail Trade	44-45	Retail Trade	444 445	Building Material and Garden Equipment and Supplies Dealers Food and Beverage Retailers
tail	Retail Trade	44-45	Refail Trade	444 445 449	Building Material and Garden Equipment and Supplies Dealers Food and Beverage Retailers Furniture, Home Furnishings, Electronics, and Appliance Retailers
etail .	Retail Trade	44-45	Retail Trade	444 445 449 455	Building Material and Garden Equipment and Supplies Dealers Food and Beverage Retailers Fumiture, Home Furnishings, Electronics, and Appliance Retailers General Merchandise Retailers
etail	Refail Trade	44-45	Retail Trade	444 445 449 455 456	Building Material and Garden Equipment and Supplies Dealers Food and Beverage Retailers Furniture, Home Furnishings, Electronics, and Appliance Retailers General Merchandise Retailers Health and Personal Care Retailers
etail	Retail Trade	44-45	Refail Trade	444 445 449 455 456 457	Building Material and Garden Equipment and Supplies Dealers Food and Beverage Retailers Furniture, Home Furnishings, Electronics, and Appliance Retailers General Merchandise Retailers Health and Personal Care Retailers Gasoline Stations and Fuel Dealers
etail	Retail Trade	44-45	Retail Trade	444 445 449 455 456	Building Material and Garden Equipment and Supplies Dealers Food and Beverage Retailers Furniture, Home Furnishings, Electronics, and Appliance Retailers General Merchandise Retailers Health and Personal Care Retailers

TUMF Non-Residential Category Detailed NAICS Correspondence Summary

TUMF Category	SCAG RTP/SCS	NAICS Two			e Digit Code
TUMF Calegory	Employment Categorie	s NAICS Cod	e NAICS Title	NAICS Code	e NAICS Title
ervice					
	Information				
		51	Information		
		_ ·		512	Motion Picture and Sound Recording Industries
				513	Publishing Industries
				516	Broadcasting and Content Providers
				517	Telecommunications
				518	Computing Infrastructure Providers, Data Processing, Web Hosting, and Related Service
				519	Web Search Portals, Libraries, Archives, and Other Information Services
	Financial Activities				
		52	Finance and Insurance		
				521	Monetary Authorities-Central Bank
				522	Credit Intermediation and Related Activities
				523	Securities, Commodity Contracts, and Other Financial Investments and Related Activities
				524	Insurance Carriers and Related Activities
				525	Funds, Trusts, and Other Financial Vehicles
		53	Real Estate and Rental and L		. erreey rearry erree of the fill that to the foot
		"	Estate dita Remai ana E	531	Real Estate
				532	Rental and Leasing Services
				533	Lessors of Nonfinancial Intangible Assets (except Copyrighted Works)
	Professional and Busine				
		54	Professional, Scientific, and T		
				541	Professional, Scientific, and Technical Services
		55	Management of Companies	and Enterprises	
				551	Management of Companies and Enterprises
		56	Administrative and Support of		ement and Remediation Services
			, tallimonalite and copper	561	Administrative and Support Services
				562	Waste Management and Remediation Services
				362	wasie Managemeni and Remediation Services
	Education and Health S				
		61	Educational Services		
				611	Educational Services
		62	Health Care and Social Assis		
				621	Ambulatory Health Care Services
				622	Hospitals
				623	Nursing and Residential Care Facilities
				624	Social Assistance
	Leisure and Hospitality				
	zonono una mospinamy	71	Arts, Entertainment, and Rec	reation	
			Ans, Emeridamicin, did Rec	711	Performing Arts, Spectator Sports, and Related Industries
				711	
					Museums, Historical Sites, and Similar Institutions
		L		713	Amusement, Gambling, and Recreation Industries
		72	Accommodation and Food S		
				721	Accommodation
				722	Food Services and Drinking Places
	Other Service				
		81	Other Services (except Publi	c Administration)	
			, , , , , , , , , , , , , , , , , , , ,	811	Repair and Maintenance
				812	Personal and Laundry Services
				813	Religious, Grantmaking, Civic, Professional, and Similar Organizations
				814	
	. Ct			814	Private Households
vernment/Publi					
	Government	1			
		92	Public Administration		
				921	Executive, Legislative, and Other General Government Support
				922	Justice, Public Order, and Safety Activities
		1		923	Administration of Human Resource Programs
				924	Administration of Environmental Quality Programs
				925	Administration of Environmental Quality Programs Administration of Housing Programs, Urban Planning, and Community Development
				926	Administration of Economic Programs
				927	Space Research and Technology
				928	National Security and International Affairs

Source:

SCAG 2020 RTP/SCS
California Employment Development Department (EDD)
US Census Bureau, North American Industry Classification System (NAICS), 2022

EXHIBIT B-5b

TUMF Non-Residential Category Detailed NAICS Correspondence
TUMF Category SCAG RTP/SCS NAICS Two Digit Code
Employment Categories NAICS Code NAICS Title | NAICS Three Digit Code | NAICS Code | NAICS Title NAICS Six Digit Code
NAICS Code NAICS Title | Farming, Natural Resources and Mining | 11 Agriculture, Forestry, Fishing and Hunling | 111 Crop Production 111110 Soybean Farming 111120 Oilseed (except Soybean) Farming 111130 Dry Pea and Bean Farming 111140 Wheat Farming 111150 Corn Farming 111160 Rice Farming | 111331 | Apple Orchards | 111332 | Grope Vinewards | 111332 | Grope Vinewards | 111333 | Strowbern's Farming | 111334 | Berry (secret Strowbern's Farming | 111334 | Berry (secret Strowbern's Farming | 111335 | Fries Nut Farming | 111336 | Fait and Fare Nut Combination Farming | 111336 | Fait and Fare Nut Combination Farming | 111336 | Fait and Fare Nut Combination Farming | 111411 | Nutracy and Fare Production | 111412 | Nutracy and Fare Production | 111412 | Refriculture Production | 111412 | Refri 112 Animal Production and Aqua 113 Forestry and Logging
 113110
 Timber Tract Operations

 113210
 Forest Nurseries and Gathering of Forest Products

 113310
 Logging
 114 Fishing, Hunting and Trapping 114111 Finfish Fishing 114112 Shellfish Fishing 114119 Other Marine Fishing 114210 Hunting and Trapping 114210 Hunfing and Trapping
14 freestry
115111 Cotton Ginning
115112 Sol Preparation Planting, and Cultivaling
115113 City Programs Planting, and Cultivaling
115113 Crop Harvesting, Primarily by Macchine
115114 Posthavest Crop Activities Revened Cotton Ginning)
115115 Form Labor Contractors and Crew Leaders
115116 Form Management Services
115210 Support Activities for Animal Production
115310 Support Activities for Forestry 115 Support Activities for Agricultu 21 Mining, Quarrying, and Oil and Gas Extraction 211 Oil and Gas Extraction 211120 Crude Petroleum Extraction 211130 Natural Gas Extraction 212 Mining (except Oil and Gas) 212114 Surface Coal Mining
212115 Underground Coal Mining
212115 Underground Coal Mining
212210 Ion Ore Mining
212220 Gold Ore and Silver Ore Mining
212220 Copper. Nickel, Lead, and Zinc Mining
212220 Other Meta Ore Mining 21229 Other Metal O're Mining
21231 Dimension Stone Mining and Quarnying
212312 Crushed and Broken Linestone Mining and Quarnying
212313 Crushed and Broken Linestone Mining and Quarnying
212319 Other Crushed and Broken Stone Mining and Quarnying
212321 Construction Sand and Gravel Mining
212321 Industrial Sand Mining
212323 Kaofin, Clay, and Ceramic and Refractory Minerals Mining
212330 Other Nonmetallic Mineral Mining and Quarnying 213 Support Activities for Mining 213111 Drilling Oil and Gas Wells
213112 Support Activities for Oil and Gas Operations
213113 Support Activities for Coal Mining
213114 Support Activities for Metal Mining
213115 Support Activities for Netal Mining
213115 Support Activities for Netal Mining

Mode	SC Catagony SC	CAG RTP/SCS	NAICS Correspondence NAICS Two Digit Code	NAICS Three Digit Code	NAICS Six Digit Code
18	Em	mployment Categories	NAICS Code NAICS Title	NAICS Code NAICS Tifle	NAICS Code NAICS Title
13	Co	onstruction	23 Construction		
2011 Section				236 Construction of Buildings	
1.33 Service and Continues					236115 New Single-Family Housing Construction (except For-Sale Builders) 236116 New Multifornity Housing Construction (except For-Sale Builders)
### Description of the Improvement of Improvement					236117 New Housing For-Sale Builders
1.3					
13					
## 13.33 ** Aurotechniq ** ## 13.33 ** Aurotechniq ** ## 13.34 ** Aurotechniq ** ## 13.35 ** Aurotechniq ** ## 13.35 ** Aurotechniq ** ## 13.36 ** Aurotechniq ** ## 13.37 ** Aurotechniq ** ## 13.38 ** Aurotechniq ** ## 13.39 ** Aurotechniq ** ## 13.30 ** Aurotechniq ** ## 13.30 ** Aurotechniq ** ## 13.31 ** Aurotechniq ** ## 13.32 ** Aurotechniq ** ## 13.33 ** Aurotechniq ** ## 13.34 ** Aurotechniq ** ## 13.35 ** Aurotechniq ** ## 13.35 ** Aurotechniq ** ## 13.36 ** Aurotechniq ** ## 13.36 ** Aurotechniq ** ## 13.37 ** Aurotechniq ** ## 13.36 ** Aurotechniq ** ## 13.37 ** Aurotechniq ** ## 13.36 ** Aurotechniq ** ## 13.37 ** Aurotechniq ** ## 13.36 ** Aurotechniq ** ## 13.37 ** Aurotechniq ** ## 13.36 ** Aurotechniq ** ## 13.37 ** Aurotechniq ** ## 13.37 ** Aurotechniq ** ## 13.38 ** Aurotechniq ** ## 13.39 ** Aurotechniq ** ## 13.30 ** Aurotechniq ** ## 13.30 ** Aurotechniq ** ## 13.30 ** Aurotechniq ** ## 13.31 ** Aurotechniq ** ## 13.32 ** Aurotechniq ** ## 13.33 ** Aurotechniq ** ## 13.34 ** ## 13.35 ** ## 13.35 ** ## 13.35 ** ## 13.35 ** ## 13.36 ** ## 13.36 ** ## 13.37 ** ## 13.37 ** ## 13.37 ** ## 13.37 ** ## 13.37 ** ## 13.38 ** ## 13.39 ** ## 13.30 ** ## 13.				237 Heavy and Civil Engineering C	Construction
Manifectating 138 Section Trans. Centerion 139 Section Trans. Centerion 130 Section Trans. Centerion 130 Section Trans. Centerion 131 Section Trans. Centerion 132 Section Trans. Centerion 133 Section Trans. Centerion 134 Section Trans. Centerion 135 Section Trans. Centerion 136 Section Trans. Centerion 137 Section Trans. Centerion 138 Section Trans. Centerion 138 Section Trans. Centerion 139 Section Trans. Centerion 130 Section Trans. Centerion 131 Section Trans. Centerion 132 Section Trans. Centerion 133 Section Trans. Centerion 134 Section Trans. Centerion 135 Section Trans. Centerion 136 Section Trans. Centerion 137 Section Trans. Centerion 138 Section Trans. Centerion 139 Section Trans. Centerion 130 Section Trans. Centerion 131 Section Trans. Centerion 132 Section Trans. Centerion 133 Section Trans. Centerion 134 Section Trans. Centerion 135 Section Trans. Centerion 136 Section Trans. Centerion 137 Section Trans. Centerion 138 Section Trans. Centerion 138 Section Trans. Centerion 138 Section Trans. Centerion 139 Section Trans. Centerion 139 Section Trans. Centerion 130 Section Trans. Centerion 131 Section Trans. Centerion 132 Section Trans. Centerion 133 Section Trans. Centerion 134 Section Trans. Centerion 135 Section Trans. Centerion 136 Section Trans. Centerion 137 Section Trans. Centerion 138 Section Trans. Centerion 139 Section Trans. Centerion 130 Section Trans. Centerion 131 Section Trans. Centerion 132 Section Trans. Centerion 134 Section Trans. Centerion 135 Section Trans. Centerion 136 Section Trans. Centerion 137 Section Trans. Centerion 138 Section Tr					
2002 1970					
Married Part					237210 Land Subdivision
130					
### 13.3 Manufacturing 13.3 Manufacturing				238 Specialty Trade Contractors	23/790 Other Heavy and Civil Engineering Construction
100 100					238110 Poured Concrete Foundation and Structure Contractors
1.33					
20.5 Compared to the compa					
240.00					238150 Glass and Glazing Contractors
200100 Charles Special as an and based particles (Common Common Comm					238160 Roofing Contractors
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3597 Pinting ink Manufacturing 3597 Espalayee Manufacturing 3599 Espalayee Manufacturing 3599 Pinting ink Manufacturing 3591 Pinting ink Manufacturing 3591						325613	Surface Active Agent Manufacturing
S35991 Cutom Compounding of Parchased Resirs							
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328 Plastics and Rubber Produch Manufochuling 32611 Plastics Sag and Pouch Manufochuling 326111 Plastics Sag and Pouch Manufochuling 326112 Plastics Packaging Plan and Sheet [encluding Laminated] Manufochuling 326113 Uniterminated Plastics Filter and Sheet [encluding Laminated] Manufochuling 326113 Uniterminated Plastics Filter and Sheet [encept Pockaging] Manufochuling 326130 Uniterminated Plastics Filter and Sheet [encept Pockaging] Manufochuling 326130 Carninated Plastics Filter Sheet Revenet Pockaging], and Shope Manufochuling 326130 Usethnore and Other Foam Plastics Filter Manufochuling 326150 Usethnore and Other Foam Plastics Allow Manufochuling 326191 Plastics Plastics Manufochuling 326191 Plastics Plastics Manufochuling 326191 Plastics Plastics Manufochuling 326191 Title Manufochuling Industry Manufochuling 326191 Title Manufochuling Industry Manufochuling 326191 Title Manufochuling Industry Manufochuling 326191 Title Manufochuling 326191 September Poolsch Manufochuling 326191 September Poolsch Manufochuling 327191 Color Building Material and Refercitories Manufochuling 327391 Cement Manufochuling 327391 Concrete Tipe							
Salit Flastics and Rubber Product Manufacturing Salit Flastics Sag and Pouch Manufacturing Salit Flastics Packaging Film and Sheet [including Laminated] Manufacturing Salit Flastics Packaging Film and Sheet [including Laminated] Manufacturing Salit Union/michal Plastics Film and Sheet (except Packaging) Manufacturing Salit Union/michal Plastics Film and Sheet (except Packaging) Manufacturing Salit Union/michal Plastics Film and Sheet (except Packaging) and Shape Manufacturing Salit Salit Union/michal Plastics Pla							Photographic Film, Paper, Plate, Chemical, and Copy Toner Manufacturing
336112 Placits Bag and Pouch Manufacturing 336113 Placits Place (Supplied Honor Manufacturing 336113 Placits Place (Supplied Honor Manufacturing 336113 Uninminided Placits Fifth and Sheet (except Plackaging) Manufacturing 336121 Uninminided Placits Fifth and Sheet (except Plackaging) Manufacturing 336122 Placits Place (Place Manufacturing) 336122 Place (Place Place Manufacturing) 336123 Place (Place Place				324	Plastics and Rubber Products Ma		All Other Miscellaneous Chemical Product and Preparation Manufacturing
326112 Packer Pockaging Film and Sheef (including Laminoted) Manufacturing 326121 Unkarrinoted Plastics Film and Sheef (incept Pockaging) Manufacturing 326121 Unkarrinoted Plastics Profile Shape Manufacturing 326122 Packer Pipe and Pipe British Manufacturing 326120 Packer Pipe and Pipe British Manufacturing 326130 Committed Plastics Potes, Sheef (incept Pockaging), and Shape Manufacturing 326130 Committed Plastics Potes, Sheef (incept Pokaging), and Shape Manufacturing 326130 Deliberate and Other Foari Product (incept Pokylytene) Manufacturing 326131 Packer Potes Product Personage Plastics Plastics 326131 Packer Potes Product Manufacturing 326231 Salar Packer Product Manufacturing 326331 Concrete Bock and Bick Manufacturing 326331 Concrete Bock and Bick Manufacturing 326331 Concrete Bock and Bick Manufacturing 326331 Concrete Roduct Manufacturing 326331 Concrete Roduct Manufacturing 326331 Packer Potes Packer Manufacturing 326331 Packer Packer Packer Manufacturing 326331 Packer Packer Potes Packer Manufacturing 326331 Packer Packer Packer P				320			Plastics Bag and Pouch Manufacturing
336 21 Underrinated Floatics Profile Shape Manufacturing 336 336 32 Positics Pries and File Refilting Manufacturing 336 336 Iominated Positics Pries Receipt Packaging), and shape Manufacturing 336 336 Shape Manufacturing 336 Shape Manufacturing 336 Shape Manufacturing 336 Positics British Shape Manufacturing 336 Positics British Shape Manufacturing 336 Positics Plumbing Ridure Manufacturing 336 Ridure Product Manufacturing Receipt Reflection 336 Ridure Product Manufacturing Receipt Reflection 336 Ridure Product Manufacturing 337 Nonmetallic Mineral Product Manufacturing Machanical Use 337 Nonmetallic Mineral Product Manufacturing 337 Rod Reflection Ref						326112	Plastics Packaging Film and Sheet (including Laminated) Manufacturing
336132 Pisatics Pise and Pise Hilling Manufachuling 336130 Imminised Pisatiss Pisel, Sheet (seepet) Packaging), and Shape Manufacturing 336130 Pisatis Bottle Manufacturing 336130 Pisatis Bottle Manufacturing 336130 Pisatis Bottle Manufacturing 336191 Pisatis Bottle Manufacturing 336197 All Other Pisatis Product Manufacturing 336197 All Other Pisatis Product Manufacturing 336191 Pisatis Bottle Manufacturing 336211 Tire Refreadina 336212 Tire Refreadina 336221 Rubber and Pisatis Product Manufacturing 336231 Rubber Product Manufacturing 336237 Nonmetalic Mineral Product Manufacturing 336237 Rubber Product Manufacturing 33710 (Clay Building Material and Refractories Manufacturing 337110 (Clay Building Material and Refractories Manufacturing 337211 (Other Pisatis and Blown Glass and Glassware Manufacturing 337211 (Other Pisatis and Blown Glass and Glassware Manufacturing 337213 (Glass Product Manufacturing 337213 (Glass Container Manufacturing 337213 (Glass Product Manufacturing 337213 (Glass Product Manufacturing 337213 (Clay Building Material and Refractories Manufacturing 337213 (Glass Product Manufacturing 337213 (Clay Building Material and Refractories Manufacturing 337230 (Ready-Mix Concrete Manufacturing 337331 (Concrete Block and Blox Manufacturing 337430 (Ayopum Product Manufacturing 337430 (Ayopum Product Manufacturing 33799) (North Concrete Product Manufacturing 33799) (Visuam Product Manufacturing 33799) (Visuam Product Manufacturing							
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32619 Plastics Pumbing Fature Manufacturing 326191 Plastics Pumbing Fature Manufacturing 326191 Plastics Pumbing Fature Manufacturing 326191 Plastics Pumbing Fature Manufacturing 326211 Tire Refreading 326211 Tire Refreading 326221 Tire Refreading 326220 Rubber and Plastics Hoses and Belting Manufacturing 326220 Rubber And Plastics Hoses and Belting Manufacturing 326239 Rubber Product Manufacturing Manufacturing 326239 Rubber Product Manufacturing Manufacturing 326239 Rubber Product Manufacturing 327100 Ciay Bulding Malerial and Refractories Manufacturing 327110 Ciay Bulding Malerial and Refractories Manufacturing 327211 Giass Producturing 327211 Giass Producturing 327213 Giass Container Manufacturing 327213 Giass Product Manufacturing 327213 Giass Product Manufacturing 327213 Giass Product Manufacturing 327233 Ready-Mix Concrete Manufacturing 327333 Concrete Refractories Manufacturing 327420 Gyapum Product Manufacturing 327420 Gy						326140	Polystyrene Foam Product Manufacturing
32619 Plastics Pumbing Fixture Manufacturing 32619 All Other Plastics Powduct Manufacturing 326211 Tire Manufacturing (except Retreading) 326211 Tire Manufacturing (except Retreading) 326211 Retreading 326211 Retreading 326212 Retreading 326212 Retreading 326213 Rubber and Plastics Hoses and Beiling Manufacturing 32629 Rubber Product Manufacturing 326291 Rubber Product Manufacturing 326291 Rubber Product Manufacturing 32710 Pollery, Ceramics, and Plumbing Fixture Manufacturing 32711 Plast Glass Manufacturing 32711 Rat Glass Manufacturing 32711 Rat Glass Manufacturing 32711 Rat Glass Manufacturing 32711 Rat Glass Manufacturing 32711 Glass Container Manufacturing 32711 Glass Container Manufacturing 32711 Glass Container Manufacturing 32711 Glass Container Manufacturing 32711 Concrete Block and Block Glass 32711 Concrete Block and Block Manufacturing 32713 Concrete Block and Block Manufacturing 32713 Concrete Block and Block Manufacturing 32713 Concrete Block and Block Manufacturing 32714 Uniter Concrete Block and Block Manufacturing 327140 Uniter Manufacturing						326150	Uretnane and Other Foam Product (except Polystyrene) Manufacturing
326 All Other Plastics Product Manufacturing						326191	Plastics Plumbing Fixture Manufacturing
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327 Nonmetallic Mineral Product Manufacturing 327 I Nonmetallic Mineral Product Manufacturing 327 I I Pottery, Ceramics, and Plumbing Fixture Manufacturing 327 I I Pottery, Ceramics, and Plumbing Fixture Manufacturing 327 I Pottery, Ceramics, and Plumbing Fixture Manufacturing 327 I Ref Class Manufacturing Manufacturing Male of Purchased Glass 327 I Ref Class Product Manufacturing Male of Purchased Glass 327 I Ceramet Manufacturing 327 I Ceramet Manufacturing 327 Concrete Biock and Biock Manufacturing 327 Concrete Biock and Biock Manufacturing 327 I Ref Concrete Product Manufacturing 327 I I I Ime Manufacturing 327 I I I Ime Manufacturing 327 I I I Ime Manufacturing 327 I A Paralve Product Manufacturing 327 I A Paralve Product Manufacturing 327 I I I I I I I I I I I I I I I I I I I						326291	Rubber Product Manufacturing for Mechanical Use
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327215 Giass Product Manufacturing Mode of Purchased Giass						327212	Other Pressed and Blown Glass and Glassware Manufacturing
327310 Cement Manufacturing 327331 Ready-Mix Concrete Manufacturing 327331 Concrete Black and Brick Manufacturing 327331 Concrete Black and Brick Manufacturing 327332 Concrete Prop Manufacturing 327390 Other Concrete Product Manufacturing 327401 Lime Manufacturing 327400 Gyayam Product Manufacturing 327400 Gyayam Product Manufacturing 327901 Abraisve Product Manufacturing 327991 Abraisve Product Manufacturing 327991 Concrete Product Manufacturing 327992 Ground or Treated Mineral and Earth Manufacturing 327993 Ground or Treated Mineral and Earth Manufacturing							
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327332 Concrete Fipe Manufacturing 327390 Other Concrete Fipe Manufacturing 327390 Other Concrete Flooduct Manufacturing 32740 Une Manufacturing 327400 Oxyama Product Manufacturing 327400 Abrasive Product Manufacturing 32791 Abrasive Product Manufacturing 327991 Oxyama Product Manufacturing 327992 Oxyama Product Manufacturing 327993 Oxyama Product Manufacturing 327993 Oxyama Product Manufacturing 327993 Oxyama Product Manufacturing 327993 Oxyama Producturing Oxyama Producturing 327993 Oxyama Producturing Oxyama Producturin						327320	Ready-Mix Concrete Manufacturing
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327993 Mineral Wool Manufacturing						327992	Ground or Treated Mineral and Earth Manufacturing
327999 All Other Miscellaneous Nonmetallic Mineral Product Manufacturing						327993	Mineral Wool Manufacturing
						327999	All Other Miscellaneous Nonmetallic Mineral Product Manufacturing

	SCAG RTP/SCS	NAICS Correspondence NAICS Two Digit Code	NAICS Three	Digit Code	NAICS Six Di	
MF Category	Employment Categories	NAICS Code NAICS Title	NAICS Code 331	NAICS Title Primary Metal Manufacturing	NAICS Code	
			331	rrimary metal manutacturing	331110	Iron and Steel Mills and Ferroalloy Manufacturing
					331210 331221	Iron and Steel Pipe and Tube Manufacturing from Purchased Steel Rolled Steel Shape Manufacturing
					331222	Steel Wire Drawing
					331313 331314	Alumina Refining and Primary Aluminum Production Secondary Smelting and Alloying of Aluminum
					331315	Aluminum Sheet, Plate, and Foil Manufacturing
					331318 331410	Other Aluminum Rolling, Drawing, and Extruding Nonferrous Metal (except Aluminum) Smelting and Refining
					331420	Copper Rolling, Drawing, Extruding, and Alloying
					331491 331492	Nonferrous Metal (except Copper and Aluminum) Rolling, Drawing, and Extruding Secondary Smelting, Refining, and Alloying of Nonferrous Metal (except Copper and Aluminum)
					331511	Iron Foundries
					331512 331513	Steel Investment Foundries Steel Foundries (except Investment)
					331523	Nonferrous Metal Die-Casting Foundries
					331524 331529	Aluminum Foundries (except Die-Casting) Other Nonferrous Metal Foundries (except Die-Casting)
			332	Fabricated Metal Product Manufa	cturing	
					332111	Iron and Steel Forging Nonferrous Forging
					332114	Custom Roll Forming
					332117	Powder Metallurgy Part Manufacturing Metal Crown, Closure, and Other Metal Stamping (except Automotive)
					332215	Metal Kitchen Cookware, Utensil, Cutlery, and Flatware (except Precious) Manufacturing
					332216 332311	Saw Blade and Handtool Manufacturing Prefabricated Metal Building and Component Manufacturing
					332312	Fabricated Structural Metal Manufacturing
					332313 332321	Plate Work Manufacturing Metal Window and Door Manufacturing
					332322	Sheet Metal Work Manufacturing
					332323 332410	Ornamental and Architectural Metal Work Manufacturing Power Boiler and Heat Exchanger Manufacturing
					332420	Metal Tank (Heavy Gauge) Manufacturing
					332431 332439	Metal Can Manufacturing Other Metal Container Manufacturing
					332510	Hardware Manufacturing
					332613 332618	Spring Manufacturing Other Fabricated Wire Product Manufacturing
					332710	Machine Shops
					332721	Precision Turned Product Manufacturing Bolt, Nut, Screw, Rivet, and Washer Manufacturing
					332811	Metal Heat Treating
					332812 332813	Metal Coaling, Engraving (except Jewelty and Silverware), and Allied Services to Manufacturers Electroplating, Plating, Polishing, Anodizing, and Coloring
					332911	Industrial Valve Manufacturing
					332912 332913	Fluid Power Valve and Hose Fitting Manufacturing Plumbing Fixture Fitting and Trim Manufacturing
					332919	Other Metal Valve and Pipe Fitting Manufacturing
					332991 332992	Ball and Roller Bearing Manufacturing Small Arms Ammunition Manufacturina
					332993	Ammunition (except Small Arms) Manufacturing
					332994 332996	Small Arms, Ordnance, and Ordnance Accessories Manufacturing Fabricated Pipe and Pipe Fitting Manufacturing
					332999	All Other Miscellaneous Fabricated Metal Product Manufacturing
			333	Machinery Manufacturing	333111	Farm Machinery and Equipment Manufacturing
					333112 333120	Lawn and Garden Tractor and Home Lawn and Garden Equipment Manufacturing Construction Machinery Manufacturing
					333131	Mining Machinery and Equipment Manufacturing
					333132 333241	Oil and Gas Field Machinery and Equipment Manufacturing Food Product Machinery Manufacturing
					333242	Semiconductor Machinery Manufacturing
					333243 333248	Sawmill, Woodworking, and Paper Machinery Manufacturing All Other Industrial Machinery Manufacturing
					333310	Commercial and Service Industry Machinery Manufacturing
					333413 333414	Industrial and Commercial Fan and Blower and Air Purification Equipment Manufacturing Heating Equipment (except Warm Air Furnaces) Manufacturing
					333415	Air-Conditioning and Warm Air Heating Equipment and Commercial and Industrial Refrigeration Equipment Man
					333511 333514	Industrial Mold Manufacturing Special Die and Tool, Die Set, Jig, and Fixture Manufacturing
					333515	Cutting Tool and Machine Tool Accessory Manufacturing
					333517 333519	Machine Tool Manufacturing Rolling Mill and Other Metalworking Machinery Manufacturing
					333611	Turbine and Turbine Generator Set Units Manufacturing
					333612 333613	Speed Changer, Industrial High-Speed Drive, and Gear Manufacturing Mechanical Power Transmission Equipment Manufacturing
					333618	Other Engine Equipment Manufacturing
					333912 333914	Air and Gas Compressor Manufacturing Measuring, Dispensing, and Other Pumping Equipment Manufacturing
					333921	Elevator and Moving Stairway Manufacturing
					333922 333923	Conveyor and Conveying Equipment Manufacturing Overhead Traveling Crane, Hoist, and Monorail System Manufacturing
					333924	Industrial Truck, Tractor, Trailer, and Stacker Machinery Manufacturing
					333991 333992	Power-Driven Handtool Manufacturing Welding and Soldering Equipment Manufacturing
					333993	Packaging Machinery Manufacturing
			1		333004	
					333995	Industrial Process Furnace and Oven Manufacturing Fluid Power Cylinder and Actuator Manufacturing
					333995 333996	Industrial Process Furnace and Oven Manufacturing Fluid Power Cylinder and Actuator Manufacturing Fluid Power Pump and Motor Manufacturing
			334	Computer and Electronic Product	333995 333996 333998 Manufacturin	Industrial Process Furnace and Oven Manufacturing Fluid Power Cyfinder and Actuator Manufacturing Fluid Power Pump and Motor Manufacturing All Other Miscellaneous General Purpose Machinery Manufacturing
			334	Computer and Electronic Product	333995 333996 333998 Manufacturin 334111	Industrial Process Furnace and Oven Manufacturing Fluid Power Oyder and Actuator Manufacturing Fluid Power Pump and Motor Manufacturing All Other Miscellaneous General Purpose Machinery Manufacturing Electronic Computer Manufacturing
			334	Computer and Electronic Product	333995 333996 333998 Manufacturin 334111 334112 334118	Industrial Process Furnace and Overn Manufacturing Fluid Power Oyder and Actuator Manufacturing Fluid Power Pump and Motor Manufacturing All Other Misclaneous General Purpose Machinery Manufacturing Electronic Computer Manufacturing Computer Storage Device Manufacturing Computer Storage Device Manufacturing
			334	Computer and Electronic Product	333995 333996 333998 Manufacturin 334111 334112 334118 334210	Industrial Process Furnace and Oven Manufacturing Fluid Power Quinder and Actualor Manufacturing Fluid Power Dump and Motor Manufacturing Fluid Power Pump and Motor Manufacturing All Other Miscellaneous General Purpose Machinery Manufacturing Electronic Computer Manufacturing Computer Storage Device Manufacturing Computer Terminal and Other Computer Peripheral Equipment Manufacturing Telephone Apparatus Manufacturing
			334	Computer and Electronic Product	333995 333996 333998 Manufacturin 334111 334112 334118 334210 334220 334290	Industrial Process Furnace and Oven Manufacturing Ruid Power Cylinder and Actualor Manufacturing Ruid Power Dump and Motor Manufacturing Ruid Power Dump and Motor Manufacturing All Other Miscellaneous General Purpose Machinery Manufacturing Electronic Computer Manufacturing Computer Storage Device Manufacturing Computer Terminal and Other Computer Peripheral Equipment Manufacturing Telephone Apporatus Manufacturing Radio and Television Broadcasting and Wreless Communications Equipment Manufacturing Other Communications Equipment Manufacturing
			334	Computer and Electronic Product	333995 333996 333998 Manufacturin 334111 334112 334118 334210 334220 334290 334310	Industrial Process Furnace and Overn Manufacturing Fluid Power Ovinder and Actuator Manufacturing Fluid Power Ovinder and Actuator Manufacturing Fluid Power Pump and Motor Manufacturing All Other Misclaineous General Purpose Machinery Manufacturing Computer Storage Device Manufacturing Computer Storage Device Manufacturing Computer Storage Device Manufacturing Telephone Apparatus Manufacturing Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing Other Communications Equipment Manufacturing Audia and Yoldes Equipment Manufacturing Audia and Yoldes Equipment Manufacturing
			334	Computer and Electronic Product	333995 333996 333998 Manufacturin 334111 334112 334210 334220 334290 334310 334412 334412	Industrial Process Furnace and Overn Manufacturing Fluid Power Oyder and Actuator Manufacturing Fluid Power Oyder and Actuator Manufacturing Fluid Power Oyder and Actuator Manufacturing All Other Misclaneous General Purpase Machinery Manufacturing Electronic Computer Manufacturing Computer Storage Device Manufacturing Computer Storage Device Manufacturing Computer Institution and Other Computer Persipheral Equipment Manufacturing Telephone Apparatus Manufacturing Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing Other Communications Equipment Manufacturing Audio and Yoldes Equipment Manufacturing Bare Printed Circuit Board Manufacturing Semiconductor and Related Device Manufacturing
			334	Computer and Electronic Product	333995 333998 Manufacturin 334111 334112 334118 334210 334220 334220 334310 334412 334412 334413	Industrial Process Furnace and Over Manufacturing Ruid Power Cylinder and Actuards Manufacturing Ruid Power Dump and Motor Manufacturing Ruid Power Pump and Motor Manufacturing All Other Miscellaneous General Purpose Machinery Manufacturing Belectronic Computer Manufacturing Computer Starage Device Manufacturing Computer Terminal and Other Computer Peripheral Equipment Manufacturing Radio and Television Broadcasting and Wreless Communications Equipment Manufacturing Other Communications Equipment Manufacturing Audio and Video Equipment Manufacturing Bere Printed Circuit Board Manufacturing Semiconductor and Related Device Manufacturing
			334	Computer and Electronic Product	333995 333998 Monufacturin 334111 334112 334118 33420 334220 334290 334310 334412 334413 334416 334416	Industrial Process Furnace and Over Manufacturing Fluid Power Oyder and Activator Manufacturing Fluid Power Oyder and Activator Manufacturing Fluid Power Oyder and Activator Manufacturing All Other Misclaneous General Purpase Machinery Manufacturing Electronic Computer Manufacturing Computer Starage Device Manufacturing Computer Starage Device Manufacturing Computer Starage Device Manufacturing Telephone Apparatus Manufacturing Radio and Television Broadcastina and Wireless Communications Equipment Manufacturing Other Communications Equipment Manufacturing Audio and Video Equipment Manufacturing Bare Printed Circuit Board Manufacturing Semicanductor and Related Device Manufacturing Capacitor, Resistor, Coli, Transformer, and Other Inductor Manufacturing Electronic Compactor Manufacturing
			334	Computer and Electronic Product	333995 333998 333998 Monufacturin 334111 334112 33420 334220 334220 334310 334412 334413 334416 334418 334418	Industrial Process Furnace and Over Manufacturing Fluid Power Ovinder and Actuator Manufacturing Fluid Power Ovinder and Actuator Manufacturing Fluid Power Ovinder and Actuator Manufacturing All Other Misclaineous General Purpose Machinery Manufacturing Computer Storage Device Manufacturing Computer Storage Device Manufacturing Computer Storage Device Manufacturing Telephone Apparatus Manufacturing Radio and Television Readactating and Wireless Communications Equipment Manufacturing Other Communications Equipment Manufacturing Audio and Yeldes Equipment Manufacturing Bare Printed Circuit Board Manufacturing Semiconductor and Related Device Manufacturing Capacitor, Resistor, Coli, Transformer, and Other Inductor Manufacturing Electronic Commercer Manufacturing Printed Circuit Assembly (Bectronic Assembly) Manufacturing Printed Circuit Seminacturing Printed Circuit Seminacturing Printed Circuit Seminacturing Printed Circuit Seminacturing Printed Circuit Component Manufacturing
			334	Computer and Electronic Product	333995 333998 Manufacturin 334111 334118 334210 334220 334220 334310 334412 334413 334416 334417 334418 334418 334419 334418	Industrial Process Furnace and Over Manufacturing Fluid Power Ovinder and Actual row Manufacturing Fluid Power Ovinder and Actual row Manufacturing Fluid Power Ovinder and Actual Purpose Machinery Manufacturing All Other Miscellaneous General Purpose Machinery Manufacturing Computer Storage Device Manufacturing Computer Storage Device Manufacturing Computer Storage Device Manufacturing Telephone Apparatus Manufacturing Radia and Television Broadcasting and Wireless Communications Equipment Manufacturing Acude and Video Equipment Manufacturing Acude and Video Equipment Manufacturing Acude and Video Equipment Manufacturing Semiconductor and Selected Device Manufacturing Semiconductor and Selected Device Manufacturing Electronic Connector Manufacturing Flinted Circuit Assembly (Beactoric Assembly) Manufacturing Other Selectoric Component Manufacturing Electronic Component Manufacturing Flinted Circuit Assembly (Beactoric Assembly) Manufacturing Electronic Component Manufacturing
			334	Computer and Electronic Product	333995 333996 333998 Manufacturin 334111 334112 334120 334220 334220 334310 334415 334415 334415 334415 334415 334415 334415	Industrial Process Furnace and Over Manufacturing Fluid Power Ovinder and Actuarbor Manufacturing Fluid Power Ovinder and Actuarbor Manufacturing Fluid Power Ovinder and Actuarbor Manufacturing All Other Miscaleneous General Purpose Machinery Manufacturing Electronic Computer Manufacturing Computer Storage Device Manufacturing Computer Storage Device Manufacturing Computer Storage Device Manufacturing Telephone Apparatus Manufacturing Radia and Television Broadcasting and Wireless Communications Equipment Manufacturing Other Communications Equipment Manufacturing Audo and Video Equipment Manufacturing Store Printed Circuit Booard Manufacturing Composition Residence of Manufacturing Store Printed Circuit Booard Manufacturing Finited Circuit Assembly (Beacturing Finited Circuit Assembly (Beacturing Finited Circuit Assembly (Beacturing) Search, Defection, Novigation, Guidance, Aeronauticaturing Sectomed Competer Manufacturing Finited Circuit assembly (Beacturing) Search, Defection, Novigation, Guidance, Aeronautical, and Nauffacturing Search, Defection, Novigation, Guidance, Aeronautical, and Nauffacturing and Appliance Use
			334	Computer and Electronic Product	333995 333996 333998 Manufactufin 334111 334112 334118 334290 334290 334390 334412 334413 334413 334413 334413 334413 33451 33451 33451 33451	Industrial Process Furnace and Overn Manufacturing Fluid Power Oxider and Actualor Manufacturing Fluid Power Oxider and Actualor Manufacturing Fluid Power Oxider and Actual Purpose Machinery Manufacturing All Other Miscellaneous General Purpose Machinery Manufacturing Electronic Computer Manufacturing Computer Storage Device Manufacturing Computer Storage Device Manufacturing Computer Storage Device Manufacturing Telephone Apparatus Manufacturing Radio and Television Broadcastina and Wireless Communications Equipment Manufacturing Other Communications Equipment Manufacturing Audio and Yolde Equipment Manufacturing Bare Printed Circuit Board Manufacturing Semiconductor and Related Device Manufacturing Capacitor, Resistor, Coli, Transformer, and Other Inductor Manufacturing Electronic Commercer Manufacturing Printed Circuit Assembly (Electronic Assembly) Manufacturing Dither Electronic Component Manufacturing Electromedical and Electrohieropeutic Apparatus Manufacturing Electromedical and Electrohieropeutic Apparatus Manufacturing Electromedical and Electrohieropeutic Apparatus Manufacturing Electronic Commonent Manufacturing Component Manufacturing Electronic Commonent Manufacturing or Residential, Commercial, and Appliance Use Instruments and Related Products Manufacturing re Meassing, Displaying, and Controlling Industrial Process Va
			334	Computer and Electronic Product	333995 333996 333998 Manufacturin 334111 334112 334210 334210 334210 334413 334413 334413 334413 334417 334417 334417 334417 334417 334417 334417 334417 334417 334417	Industrial Process Furnace and Overn Manufacturing Riud Power Oyder and Activator Manufacturing Riud Power Oyder and Activator Manufacturing Riud Power Oyder and Activator Manufacturing Riud Power Oyder And Purpose Machinery Manufacturing Bectronic Computer Manufacturing Computer Storage Device Manufacturing Computer Storage Device Manufacturing Computer Storage Device Manufacturing Telephane Apparatus Manufacturing Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing Other Communications Equipment Manufacturing Audio and Video Equipment Manufacturing Bare Printed Circuit Board Manufacturing Semicanductor and Related Device Manufacturing Capacitor, Resister, Coli, Transformer, and Other Inductor Manufacturing Electronic Composent Manufacturing Printed Circuit Assembly (Electronic Assembly) Manufacturing Dies Electronic Composent Manufacturing or Residential, Commercial, and Appliance Use Instruments and Related Products Manufacturing or Residential, Commercial, and Appliance Use Instruments and Related Products Manufacturing or Meassing, Displaying, and Controlling Industrial Process Vai Totalizing Riuld Meter and Counting Device Manufacturing Instruments Manufacturing
			334	Computer and Electronic Product	333995 333996 333998 Manufacturin 334112 334118 334210 334220 334220 334290 334310 334413 334413 334413 334413 334413 334413 334413 334510 334510 334510 334510 334510	Industrial Process Furnace and Over Manufacturing Riud Power Oyder and Actuator Manufacturing Riud Power Oyder and Actuator Manufacturing Riud Power Oyder and Actuator Manufacturing All Other Misclaneous General Purpose Machinery Manufacturing Electronic Computer Manufacturing Computer Storage Device Manufacturing Computer Storage Device Manufacturing Computer Storage Device Manufacturing Telephane Apparatus Manufacturina Radio and Television Broadcastina and Wireless Communications Equipment Manufacturing Other Communications Equipment Manufacturing Audio and Yoldes Equipment Manufacturing Bare Printed Circuit Board Manufacturing Semicanductor and Related Device Manufacturing Capacitor, Resistor, Coli, Transformer, and Other Inductor Manufacturing Electronic Commont Manufacturing Printed Circuit Assembly (Electronic Assembly) Manufacturing Dies Electronic Component Manufacturing or Residential, Commercial, and Appliance Use Instruments and Related Products Manufacturing or Residential, Commercial, and Appliance Use Instruments and Related Products Manufacturing or Meassing, Displaying, and Controling Industrial Process Var Totalzing Riud Meter and Counting Device Manufacturing Instrument Manufacturing Instruments Manufacturing in Residential Environmental Control Manufacturing in Residential Counter Manufacturing Instruments Manufacturing in Residential Environmental Control Manufacturing in Residential Counter Manufacturing in Residential Environmental Control Manufacturing in Residential Counter Manufacturing in Residential Counter Manufacturing in Residential Environmental Control Manufacturing in Residential Counter Manufacturing in Residential Environmental Control Manufacturing in Residential Counter Manufacturing in Residential

	ntial Category Detailed NAICS Co SCAG RTP/SCS NAICS Two Employment Categories NAICS Co		NAICS Three Digit Code NAICS Code NAICS Title	NAICS Six Dig	
	Employment categories [NAICS CO	ac parios ille	335 Electrical Equipment, Appliance		
				335131	Residential Electric Lighting Fixture Manufacturing
					Commercial, Industrial, and Institutional Electric Lighting Fixture Manufacturing Electric Lamp Bulb and Other Lighting Equipment Manufacturing
				335210	Small Electrical Appliance Manufacturing
					Major Household Appliance Manufacturing
					Power, Distribution, and Specialty Transformer Manufacturing Motor and Generator Manufacturing
				335313	Switchgear and Switchboard Apparatus Manufacturing
				335314 335910	Relay and Industrial Control Manufacturing Battery Manufacturing
				335921	Fiber Optic Cable Manufacturing
				335929	Other Communication and Energy Wire Manufacturing
				335931 335932	Current-Carrying Wiring Device Manufacturing Noncurrent-Carrying Wiring Device Manufacturing
				335991	Carbon and Graphite Product Manufacturing
			20/		All Other Miscellaneous Electrical Equipment and Component Manufacturing
			336 Transportation Equipment Manu	336110	Automobile and Light Duty Motor Vehicle Manufacturing
				336120	Heavy Duty Truck Manufacturing
				336211	Motor Vehicle Body Manufacturing
				336212 336213	Truck Trailer Manufacturing Motor Home Manufacturing
				336214	Travel Trailer and Camper Manufacturing
					Motor Vehicle Gasoline Engine and Engine Parts Manufacturing
				336320 336330	Motor Vehicle Electrical and Electronic Equipment Manufacturing Motor Vehicle Steering and Suspension Components (except Spring) Manufacturing
				336340	Motor Vehicle Brake System Manufacturing
					Motor Vehicle Transmission and Power Train Parts Manufacturing
				336360 336370	Motor Vehicle Seating and Interior Trim Manufacturing Motor Vehicle Metal Stamping
				336390	Other Motor Vehicle Parts Manufacturing
				336411	Aircraft Manufacturing
				336412 336413	Aircraft Engine and Engine Parts Manufacturing Other Aircraft Parts and Auxiliary Equipment Manufacturing
					Guided Missile and Space Vehicle Manufacturing
				336415	Guided Missile and Space Vehicle Propulsion Unit and Propulsion Unit Parts Manufacturing
				336419 336510	Other Guided Missile and Space Vehicle Parts and Auxiliary Equipment Manufacturing
					Railroad Rolling Stock Manufacturing Ship Building and Repairing
				336612	Boat Building
				336991 336992	Motorcycle, Bicycle, and Parts Manufacturing Military Armored Vehicle, Tank, and Tank Component Manufacturing
				336999	All Other Transportation Equipment Manufacturing
			337 Furniture and Related Product N	lanufacturing	
				337110	Wood Kitchen Cabinet and Countertop Manufacturing
				337121 337122	Upholstered Household Furniture Manufacturing Nonupholstered Wood Household Furniture Manufacturing
				337126	Household Furniture (except Wood and Upholstered) Manufacturing
				337127	Institutional Furniture Manufacturing
				337211 337212	Wood Office Furniture Manufacturing Custom Architectural Woodwork and Millwork Manufacturing
				337214	Office Furniture (except Wood) Manufacturing
				337215	Showcase, Partition, Shelving, and Locker Manufacturing
				337910 337920	Mattress Manufacturing Blind and Shade Manufacturing
			339 Miscellaneous Manufacturing		
					Surgical and Medical Instrument Manufacturing
				339113 339114	Surgical Appliance and Supplies Manufacturing Dental Equipment and Supplies Manufacturing
				339115	Ophthalmic Goods Manufacturing
				339116 339910	Dental Laboratories Jewelry and Silverware Manufacturing
				339920	Sporting and Athletic Goods Manufacturing
				339930	Doll, Toy, and Game Manufacturing
				339940 339950	Office Supplies (except Paper) Manufacturing Sign Manufacturing
				339991	Gasket, Packing, and Sealing Device Manufacturing
				339992	Musical Instrument Manufacturing
				339993 339994	Fastener, Button, Needle, and Pin Manufacturing Broom, Brush, and Mop Manufacturing
				339995	Burial Casket Manufacturing
				339999	All Other Miscellaneous Manufacturing
- 1	Wholesale Trade 42	Whater de Tonda			
	42	Wholesale Trade	423 Merchant Wholesalers, Durable	Goods	
				423110	Automobile and Other Motor Vehicle Merchant Wholesalers
				423120 423130	Motor Vehicle Supplies and New Parts Merchant Wholesalers Tire and Tube Merchant Wholesalers
				423140	Motor Vehicle Parts (Used) Merchant Wholesalers
				423210	Furniture Merchant Wholesalers
				423220	Home Furnishing Merchant Wholesalers
				423310 423320	Lumber, Plywood, Millwork, and Wood Panel Merchant Wholesalers Brick, Stone, and Related Construction Material Merchant Wholesalers
				423330	Roofing, Siding, and Insulation Material Merchant Wholesalers
					Other Construction Material Merchant Wholesalers
				423410	Photographic Equipment and Supplies Merchant Wholesalers Office Equipment Merchant Wholesalers
					Computer and Computer Peripheral Equipment and Software Merchant Wholesalers
					Other Commercial Equipment Merchant Wholesalers
				423450	Medical, Dental, and Hospital Equipment and Supplies Merchant Wholesalers
				423450	Medical, Dental, and Hospital Equipment and Supplies Merchant Wholesalers Ophthalmic Goods Merchant Wholesalers
				423450 423460 423490 423510	Medical, Dental, and Hospital Equipment and Supplies Merchant Wholesalers Ophthamica Goods Merchant Wholesalers Other Professional Equipment and Supplies Merchant Wholesalers Media Service Centers and Other Media Merchant Wholesalers
				423450 423460 423490 423510 423520	Medical, Dental, and Hospital Equipment and Supplies Merchant Wholesalers Ophthamic Goods Merchant Wholesalers Other Professional Equipment and Supplies Merchant Wholesalers Metal Services Centless and Other Metal Merchant Wholesalers Coal and Other Mineral and For Merchant Wholesalers
				423450 423460 423490 423510 423520 423610	Medical, Dental, and Hospital Equipment and Supplies Merchant Wholesalers Ophthalmical Goods Merchant Wholesalers Other Professional Equipment and Supplies Merchant Wholesalers Medical Service Centers and Other Medical Merchant Wholesalers Coal and Other Mineral and Ore Merchant Wholesalers Electrical Apparatus and Equipment, Whitig Supplies, and Related Equipment Merchant Wholesalers
				423450 423460 423490 423510 423520 423610 423620	Medical, Dental, and Hospital Equipment and Supplies Merchant Wholesalers Ophthamical Goods Merchant Wholesalers Other Professional Equipment and Supplies Merchant Wholesalers Metal Service Centers and Other Medial Merchant Wholesalers Coal and Other Mineral and Ore Merchant Wholesalers Electrical Apparatus and Equipment, Writing Supplies, and Related Equipment Merchant Wholesalers Household Appliances, Bectlic Housewares, and Consumer Electronics Merchant Wholesalers Other Electronic Parts and Equipment Merchant Wholesalers
				423450 423460 423490 423510 423520 423610 423620 423690 423710	Medical, Dental, and Hospital Equipment and Supplies Merchant Wholesalers Ophthamic Goods Merchant Wholesalers Other Professional Equipment and Supplies Merchant Wholesalers Other Professional Equipment and Supplies Merchant Wholesalers Metal Service Centers and Other Metal Merchant Wholesalers Coal and Other Mineral and Ore Merchant Wholesalers Electrical Apparatus and Equipment, Wiring Supplies, and Related Equipment Merchant Wholesalers Household Anglances, Electric Nousewares, and Consumer Electronics Merchant Wholesalers Other Electronic Parts and Equipment Merchant Wholesalers Hardware Merchant Wholesalers
				423450 423460 423490 423510 423520 423610 423620 423690 423710 423720	Medical, Dental, and Hospital Equipment and Supplies Merchant Wholesalers Ophthamical Goods Merchant Wholesalers Other Professional Equipment and Supplies Merchant Wholesalers Media Service Centers and Other Media Merchant Wholesalers Coal and Other Mineral and Cre Merchant Wholesalers Electrical Apparatus and Equipment, Wiring Supplies, and Related Equipment Merchant Wholesalers Household Appliances, Electric Housewares, and Consumer Electronics Merchant Wholesalers Other Electronic Parts and Equipment Merchant Wholesalers Hardware Merchant Wholesalers Plambing and Heading Equipment and Supplies (Hydronics) Merchant Wholesalers
				423450 423460 423490 423510 423520 423610 423620 423690 423710 423720 423730	Medical, Dental, and Hospital Equipment and Supplies Merchant Wholesalers Ophthamic Goods Merchant Wholesalers Other Professional Equipment and Supplies Merchant Wholesalers Other Professional Equipment and Supplies Merchant Wholesalers Medical Service Centers and Other Metal Merchant Wholesalers Coal and Other Mineral and Ore Merchant Wholesalers Electrical Apparatus and Equipment, Writing Supplies, and Related Equipment Merchant Wholesalers Household Apparatus and Equipment, Writing Supplies, and Related Equipment Merchant Wholesalers Household Apparatus and Equipment Merchant Wholesalers Other Electronic Parts and Equipment Merchant Wholesalers Hardware Merchant Wholesalers Plumbing and Heading Equipment and Supplies (Hydronics) Merchant Wholesalers Pumbing and Heading Equipment and Supplies (Hydronics) Merchant Wholesalers
				423450 423460 423490 423510 423520 423610 423620 423690 423710 423720	Medical, Dental, and Hospital Equipment and Supplies Merchant Wholesalers Ophthamical Goods Merchant Wholesalers Other Professional Equipment and Supplies Merchant Wholesalers Media Service Centers and Other Media Merchant Wholesalers Coal and Other Mineral and Ore Merchant Wholesalers Electrical Apparatus and Equipment, Writing Supplies, and Related Equipment Merchant Wholesalers Household Appliances, Blectric Housewares, and Consumer Electronics Merchant Wholesalers Other Electronic Parts and Equipment Merchant Wholesalers Hardware Merchant Wholesalers Plumbing and Healing Equipment and Supplies (Hydronics) Merchant Wholesalers
				423450 423460 423490 423510 423520 423610 423620 423690 423710 423720 423730 423740 423810 423820	Medical, Dental, and Hospital Equipment and Supplies Merchant Wholesolers Ophthamical Goods Merchant Wholesolers Other Professional Equipment and Supplies Merchant Wholesolers Other Professional Equipment and Supplies Merchant Wholesolers Coal and Other Mineral and Cree Merchant Wholesolers Electrical Apparatus and Equipment, Writing Supplies, and Related Equipment Merchant Wholesolers Household Appliances, Electric Housewares, and Consumer Electronics Merchant Wholesolers Household Appliances, Electric Housewares, and Consumer Electronics Merchant Wholesolers Other Electronic Parts and Equipment Merchant Wholesolers Hardware Merchant Wholesolers Plumbing and Healing Equipment and Supplies (Hydronics) Merchant Wholesolers Warm Air Healing and Air-Conditioning Equipment and Supplies Merchant Wholesolers Reflégration Equipment and Supplies Merchant Wholesolers Reflégration Equipment and Supplies Merchant Wholesolers Construction and Mining (except Cil Well) Macchinery and Equipment Merchant Wholesolers Farm and Garden Machinery and Equipment Merchant Wholesolers
				423450 423490 423510 423510 423520 423620 423620 423710 423720 423730 423740 423810 423810 423820 423830	Medical, Dentol, and Hospital Equipment and Supplies Merchant Wholesalers Ophthamic Goods Merchant Wholesalers Other Professional Equipment and Supplies Merchant Wholesalers Werd Service Centers and Other Media Merchant Wholesalers Coal and Other Mineral and Ore Merchant Wholesalers Eschtical Appoints and Equipment, Writing Supplies, and Related Equipment Merchant Wholesalers Eschtical Appoints and Equipment, Writing Supplies, and Related Equipment Merchant Wholesalers Household Appliances, Bectric Housewares, and Consumer Electronics Merchant Wholesalers Household Appliances, Electric Housewares, and Consumer Electronics Merchant Wholesalers Pumbling and Hedning Equipment and Supplies (Hydonics) Merchant Wholesalers Pumbling and Hedning Equipment and Supplies Merchant Wholesalers Refrigeration Equipment and Supplies Merchant Wholesalers Construction and Mining (sexcept oil Wiell) Machinery and Equipment Merchant Wholesalers Farm and Garden Machinery and Equipment Merchant Wholesalers
				423450 423490 423510 423510 423520 423620 423620 423710 423720 423730 423740 423810 423810 423820 423830	Medical, Dental, and Hospital Equipment and Supplies Merchant Wholesalers Ophthamical Goods Merchant Wholesalers Other Professional Equipment and Supplies Merchant Wholesalers Media Service Centers and Other Media Merchant Wholesalers Coal and Other Mineral and Ore Merchant Wholesalers Electrical Apparatus and Equipment, Writing Supplies, and Related Equipment Merchant Wholesalers Household Appliances, Blectric Housewares, and Consumer Electronics Merchant Wholesalers Household Appliances, Blectric Housewares, and Consumer Electronics Merchant Wholesalers Other Electronic Parts and Equipment Merchant Wholesalers Hardware Merchant Wholesalers Plumbing and Herding Equipment and Supplies (Hydronics) Merchant Wholesalers Warm Air Healting and Air-Conditioning Equipment and Supplies Merchant Wholesalers Reflégration Equipment and Supplies Merchant Wholesalers Construction and Mining (except Cil Well) Machinery and Equipment Merchant Wholesalers Farm and Garden Machinery and Equipment Repulpment Merchant Wholesalers
				423450 423450 423510 423520 423510 423620 423620 423710 423720 423730 423740 423840 423840 423840 423840	Medical, Dental, and Hospital Equipment and Supplies Merchant Wholesalers Ophthamical Goods Merchant Wholesalers Other Professional Equipment and Supplies Merchant Wholesalers Medi Service Centers and Other Medi Authorit Wholesalers Coal and Other Mineral and Ore Merchant Wholesalers Electrical Apparatus and Equipment, Writing Supplies, and Related Equipment Merchant Wholesalers Household Appliances, Beetlife Housewares, and Consumer Electronics Merchant Wholesalers Household Appliances, Beetlife Housewares, and Consumer Electronics Merchant Wholesalers Other Electronic Parts and Equipment Merchant Wholesalers Hardware Merchant Wholesalers Plumbing and Herding Equipment and Supplies (Hydronics) Merchant Wholesalers Warm Air Healting and Air-Conditioning Equipment and Supplies Merchant Wholesalers Reflégration Equipment and Supplies Merchant Wholesalers Construction and Mining (except Cil Well) Machinery and Equipment Merchant Wholesalers Farm and Garden Machinery and Equipment Merchant Wholesalers Industrial Machinery and Equipment Merchant Wholesalers Industrial Machinery and Equipment and Supplies Merchant Wholesalers Service Establishment Equipment and Supplies Merchant Wholesalers Service Establishment Equipment and Supplies Merchant Wholesalers Innaportation Equipment and Supplies (except Motor Vehicle) Merchant Wholesalers
				423450 423450 423490 423510 423510 423520 423620 423620 423730 423730 423740 423820 423820 423830 423830 423840 423840 423850	Medical, Dental, and Hospital Equipment and Supplies Merchant Wholesolers Ophthamical Goods Merchant Wholesolers Other Professional Equipment and Supplies Merchant Wholesolers Other Professional Equipment and Supplies Merchant Wholesolers Coal and Other Mineral and Ore Merchant Wholesolers Ecentrical Apparatis and Equipment, Wirting Supplies, and Related Equipment Merchant Wholesolers Electrical Postandars and Equipment, Wirting Supplies, and Related Equipment Merchant Wholesolers Household Apoliances, Beetlic Housewares, and Consumer Blectronics Merchant Wholesolers Household Apoliances, Beetlic Housewares, and Consumer Blectronics Merchant Wholesolers Purpling and Hedeling Equipment Merchant Wholesolers Purpling and Hedeling Equipment Merchant Wholesolers Purpling and Hedeling Equipment of Supplies Merchant Wholesolers Refrigeration Equipment and Supplies Merchant Wholesolers Construction and Mirring (except of) Well Macchinery and Equipment Merchant Wholesolers Industrial Macchinery and Equipment Merchant Wholesolers Industrial Supplies Merchant Wholesolers Industrial Supplies Merchant Wholesolers Service Establishment Equipment and Supplies Merchant Wholesolers Transportation Equipment and Supplies Merchant Wholesolers Transportation Equipment and Supplies Merchant Wholesolers Sporting and Representational Good and Supplies Merchant Wholesolers
				423450 423450 423510 423520 423510 423620 423620 423710 423720 423730 423740 423840 423840 423840 423840	Medical, Dentol, and Hospital Equipment and Supplies Merchant Wholesalers Ophthamical Goods Merchant Wholesalers Other Professional Equipment and Supplies Merchant Wholesalers Media Service Centers and Other Medial Merchant Wholesalers Coal and Other Mineral and Ore Merchant Wholesalers Electrical Apparatus and Equipment, Wiring Supplies, and Related Equipment Merchant Wholesalers Household Appliances, Electric Housewares, and Consumer Electronics Merchant Wholesalers Household Appliances, Electric Housewares, and Consumer Electronics Merchant Wholesalers Household Appliances, Electric Housewares, and Consumer Electronics Merchant Wholesalers Household Appliances, Electric Housewares, and Consumer Electronics Merchant Wholesalers Hardware Merchant Wholesalers Hardware Merchant Wholesalers Warm Air Healting and Air-Conditioning Equipment and Supplies Merchant Wholesalers Refigeration Equipment and Supplies Merchant Wholesalers Construction and Mining (except Oil Well) Machinery and Equipment Merchant Wholesalers Form and Garden Machinery and Equipment Merchant Wholesalers Industrial Machinery and Equipment Merchant Wholesalers Industrial Machinery Equipment and Supplies Merchant Wholesalers Service Establishment Equipment and Supplies Merchant Wholesalers Temporation Equipment and Supplies (except Motor Vehicle) Merchant Wholesalers Sporting and Recreational Goods and Supplies Merchant Wholesalers Sporting and Recreational Goods and Supplies Merchant Wholesalers
				423450 423460 423490 423510 423520 423520 423610 423740 423770 423770 423730 423820 423820 423830 423830 423830 423830 423830	Medical, Dental, and Hospital Equipment and Supplies Merchant Wholesolers Ophthamical Goods Merchant Wholesolers Other Professional Equipment and Supplies Merchant Wholesolers Other Professional Equipment and Supplies Merchant Wholesolers Coal and Other Mineral and Ore Merchant Wholesolers Ecentrical Apparatis and Equipment, Wirting Supplies, and Related Equipment Merchant Wholesolers Electrical Postandars and Equipment, Wirting Supplies, and Related Equipment Merchant Wholesolers Household Apoliances, Beetlic Housewares, and Consumer Blectronics Merchant Wholesolers Household Apoliances, Beetlic Housewares, and Consumer Blectronics Merchant Wholesolers Purpling and Hedeling Equipment Merchant Wholesolers Purpling and Hedeling Equipment Merchant Wholesolers Purpling and Hedeling Equipment of Supplies Merchant Wholesolers Refrigeration Equipment and Supplies Merchant Wholesolers Construction and Mirring (except of) Well Macchinery and Equipment Merchant Wholesolers Industrial Macchinery and Equipment Merchant Wholesolers Industrial Supplies Merchant Wholesolers Industrial Supplies Merchant Wholesolers Service Establishment Equipment and Supplies Merchant Wholesolers Transportation Equipment and Supplies Merchant Wholesolers Transportation Equipment and Supplies Merchant Wholesolers Sporting and Representational Good and Supplies Merchant Wholesolers

	ial Category Detailed I CAG RTP/SCS	NAICS Two Digit Code	NAICS Three D		NAICS Six Di	git Code
Category Er	mployment Categories	NAICS Code NAICS Title	NAICS Code	NAICS Title	NAICS Code	NAICS Title
			424	Merchant Wholesalers, Nondurab	ble Goods	Term communication and a second communication an
					424110 424120	Printing and Writing Paper Merchant Wholesalers Stationery and Office Supplies Merchant Wholesalers
					424130	Industrial and Personal Service Paper Merchant Wholesalers
					424210	Drugs and Druggists' Sundries Merchant Wholesalers
					424310	Piece Goods, Notions, and Other Dry Goods Merchant Wholesalers
					424340	Footwear Merchant Wholesalers
					424350 424410	Clothing and Clothing Accessories Merchant Wholesalers General Line Grocery Merchant Wholesalers
					424420	Packaged Frozen Food Merchant Wholesalers
					424430	Dairy Product (except Dried or Canned) Merchant Wholesalers
					424440	Poultry and Poultry Product Merchant Wholesalers
					424450 424460	Confectionery Merchant Wholesalers
					424460	Fish and Seafood Merchant Wholesalers Meat and Meat Product Merchant Wholesalers
					424480	Fresh Fruit and Vegetable Merchant Wholesalers
					424490	Other Grocery and Related Products Merchant Wholesalers
					424510	Grain and Field Bean Merchant Wholesalers
					424520 424590	Livestock Merchant Wholesalers Other Farm Product Raw Material Merchant Wholesalers
					424610	Plastics Materials and Basic Forms and Shapes Merchant Wholesalers
					424690	Other Chemical and Allied Products Merchant Wholesalers
					424710	Petroleum Bulk Stations and Terminals
					424720	Petroleum and Petroleum Products Merchant Wholesalers (except Bulk Stations and Terminals)
					424810	Beer and Ale Merchant Wholesalers Wine and Distilled Alcoholic Beverage Merchant Wholesalers
					424620	Farm Supplies Merchant Wholesalers
					424920	Book, Periodical, and Newspaper Merchant Wholesalers
					424930	Flower, Nursery Stock, and Florists' Supplies Merchant Wholesalers
					424940	Tobacco Product and Electronic Cigarette Merchant Wholesalers
					424950	Paint, Varnish, and Supplies Merchant Wholesalers
			405	Whaterday Tonday Assessed Tonday	424990	Other Miscellaneous Nondurable Goods Merchant Wholesalers
			425	Wholesale Trade Agents and Bro	425120	Wholesale Trade Agents and Brokers
Tn	ransportation, Warehousi	ing and Utilities	1		423120	тосько посе давта ана втоква
	,,	22 Utilities				
			221	Utilities		
					221111	Hydroelectric Power Generation
					221112	Fossil Fuel Electric Power Generation
					221113	Nuclear Electric Power Generation Solar Electric Power Generation
					221115	Wind Electric Power Generation
					221116	Geothermal Electric Power Generation
					221117	Biomass Electric Power Generation
					221118	Other Electric Power Generation
					221121	Electric Bulk Power Transmission and Control
					221122	Electric Power Distribution Natural Gas Distribution
					221210	Water Supply and Irrigation Systems
					221320	Sewage Treatment Facilities
					221330	Steam and Air-Conditioning Supply
		48-49 Transportation and Warehousing				
			481	Air Transportation	401111	Technology December 1
					481111	Scheduled Passenger Air Transportation Scheduled Freight Air Transportation
					481211	Nonscheduled Chartered Passenger Air Transportation
					481212	Nonscheduled Chartered Freight Air Transportation
					481219	Other Nonscheduled Air Transportation
			482	Rail Transportation		1
					482111 482112	Line-Haul Railroads
			483	Water Transportation	402112	Short Line Railroads
			400	water manaportation	483111	Deep Sea Freight Transportation
					483112	Deep Sea Passenger Transportation
					483113	Coastal and Great Lakes Freight Transportation
					483114	Coastal and Great Lakes Passenger Transportation
					483211 483212	Inland Water Freight Transportation Inland Water Passenger Transportation
			484	Truck Transportation	400212	Initiatia Walet Tassenger transportation
			404	nock numbponumen		
					484110	General Freight Trucking, Local
					484110 484121	General Freight Trucking, Local General Freight Trucking, Long-Distance, Truckload
					484121 484122	General Freight Trucking, Long-Distance, Truckload General Freight Trucking, Long-Distance, Less Than Truckload
					484121 484122 484210	General Freight Trucking, Long-Distance, Truckload General Freight Trucking, Long-Distance, Less Than Truckload Used Household and Office Goods Moving
					484121 484122 484210 484220	General Freight Trucking, Long-Distance, Inuckload General Freight Trucking, Long-Distance, Less Than Truckload Used Household and Office Goods Moving Specialized Freight (except Used Goods) Trucking, Local
			Age	Transit and Ground Passances Te	484121 484122 484210 484220 484230	General Freight Trucking, Long-Distance, Truckload General Freight Trucking, Long-Distance, Less Than Truckload Used Household and Office Goods Moving
			485	Transit and Ground Passenger Tra	484121 484122 484210 484220 484230 ansportation	General Freight Trucking, Long-Distance, Incalboad General Freight Trucking, Long-Distance, Less Than Truckload Used Household and Office Goods Moving Specialized Freight (except Used Goods) Trucking, Local
			485	Transit and Ground Passenger Tra	484121 484122 484210 484220 484230	General Fielght Trucking, Long-Distance, Inuckload General Fielght Trucking, Long-Distance, Less Than Truckload Used Household and Office Goods Moving Specialized Freight (except Used Goods) Trucking, Local Specialized Freight (except Used Goods) Trucking, Long-Distance
			485	Transil and Ground Passenger Tra	484121 484122 484210 484220 484230 484230 485111 485111 485112 485113	General Freight Trucking, Long-Distance, Inackload General Freight Trucking, Long-Distance, Less Than Truckload Used Household and Office Goods Moving Specialized Freight (except Used Goods) Trucking, Local Specialized Freight (except Used Goods) Trucking, Long-Distance Mixed Mode Transil Systems Commuter Roll Systems Bus and Other Moder Vehicle Transil Systems
			485	Transil and Ground Passenger Tra	484121 484122 484210 484220 484230 484230 485111 485112 485113 485119	General Freight Trucking, Long-Distance, Inuckload General Freight Trucking, Long-Distance, Less Than Truckinad Used Household and Office Goods Moving Specialized Freight (except Used Goods) Trucking, Local Specialized Freight (except Used Goods) Trucking, Long-Distance Mixed Mode Transif Systems Commuter Roil Systems Bus and Other Motor Vehicle Transif Systems Other Urban Transif Systems
			485	Transit and Ground Passenger Tra	484121 484122 484210 484220 484230 485111 485111 485112 485113 485119 485210	General Freight Trucking, Long-Distance, Invokload General Freight Trucking, Long-Distance, Less Than Truckload Used Household and Office Goods Moving Specialized Freight (except Used Goods) Trucking, Local Specialized Freight (except Used Goods) Trucking, Long-Distance Mixed Mode Transil Systems Commuter Kail Systems Other Utban Transil Systems Other Utban Transil Systems
			485	Transit and Ground Passenger Tra	484121 484122 484210 484220 484230 2013 20	General Freight Trucking, Long-Distance, Inuckload General Freight Trucking, Long-Distance, Less Thon Truckload Used Household and Office Goods Moving Specialized Freight (except Used Goods) Trucking, Local Specialized Freight (except Used Goods) Trucking, Long-Distance Mixed Mode Transif Systems Commuter Rail Systems Bus and Other Motor Vehicle Transif Systems Other Utban Transif Systems Interurban and Rural Bus Transportation Tax and RiderAndrian Services
			485	Transil and Ground Passenger Tra	484121 484122 484210 484220 484220 484230 285111 485111 485112 485113 485119 485210 485310 485310	General Fieight Trucking, Long-Distance, Involvad General Fieight Trucking, Long-Distance, Isas Than Truckload Used Household and Office Goods Moving Specialized Freight (except Used Goods) Trucking, Load Specialized Freight (except Used Goods) Trucking, Long-Distance Mixed Mode Transil Systems Commuter Kail Systems Other Utban Transil Systems Other Utban Transil Systems Intervation and Rurial Bus Transportation Taxi and Ridestharing Services
			485	Transit and Ground Passenger Tra	484121 484122 484210 484220 484230 2013 20	General Freight Trucking, Long-Distance, Insublada General Freight Trucking, Long-Distance, Less Than Truckload Used Household and Office Goods Moving Specialized Freight (except Used Goods) Trucking, Long-Distance Mixed Mode Transil Systems Commuter Rail Systems Bus and Other Motor Vehicle Transil Systems Other Utban Transil Systems Interurban and Rural Bus Transportation Taxi and Riddendring Services
			485	Transit and Ground Passenger Tra	484121 484122 484210 484220 484220 484230 485111 485112 485112 485119 485210 485310 485310 485320 485320 485320	General Freight Trucking, Long-Distance, Insubload General Freight Trucking, Long-Distance, Less Thon Truckload Used Household and Office Goods Moving Specialized Freight (except Used Goods) Trucking, Long-Distance Mixed Mode Transif Systems Commuter Rail Systems Bus and Other Motor Vehicle Transif Systems Other Utban Transif Systems Interutban and Rural Bus Transportation Trax and Rickerharing Services Limousine Services School and Errolyvee Bus Transportation
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			486	Pipeline Transportation Scenic and Sightseeing Transport	### 121 ### 122 ### 122 ### 123 ### 124 ### 12	Gemera Freight Trucking, Long-Distance, Invoktoad Used Household and Office Goods Moving Specialized Freight (except Used Goods) Trucking, Local Specialized Freight (except Used Goods) Trucking, Long-Distance Mixed Mode Transil Systems Commuter Roll Systems Distance Roll Systems Bus and Other Motor Vehicle Transil Systems Other Utban Transil Systems Interutban and Rural Bus Transportation Trad and Ridersharing Services Limousine Service School and Erralpoyee Bus Transportation Charter Bus Industry Special Need Strongbortation All Other Transil and Goound Passenger Transportation All Other Transil and Goound Passenger Transportation Fipeline Transportation of Holtural Gos Scenic and Sightseeing Transportation Land Cherr Pipeline Transportation Scenic and Sightseeing Transportation Air Traffic Control Other Airport Operations Other Airport Operations Other Support Activities for Air Transportation Fort and Holtor Operations Other Support Activities for Air Transportation Fort and Holtor Operations Other Support Activities for Rair Transportation Fort and Holtor Operations
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			486	Pipeline Transportation Scenic and Sightseeing Transport	### 121 ### 122 ### 122 ### 123 ### 124 ### 12	General Freight Trucking, Long-Distance, Inruckload Used Household and Office Goods Moving Specialized Freight (except Used Goods) Trucking, Local Specialized Freight (except Used Goods) Trucking, Long-Distance Mixed Mode Transil Systems Commuter Roll Systems Bus and Other Motor Vehicle Transil Systems Other Utban Transil Systems Bus and Other Motor Vehicle Transil Systems Other Utban Transil Systems Interutban and Rural Bus Transportation Trad and Ridesharding Services Limousine Service School and Erralpoyee Bus Transportation Charter Bus Inclusive Special Need Stronsportation All Other Transil and Goound Passenger Transportation All Other Transil and Goound Passenger Transportation Fipeline Transportation of Holtural Gos Scenic and Sightseeing Transportation Scenic and Sightseeing Transportation Air Traffic Control Other Airport Operations Other Airport Operations Other Support Activities for Air Transportation Fort and Holtor Operations Other Support Activities for Water Transportation Fort and Holtor Operations Marine Cargo Honding Navigational Services to Shipping Navigational Services to Shipping
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F Category	SCAG RTP/SCS	NAICS Correspondence NAICS Two Digit Code	NAICS Three	Digit Code	NAICS Six Dig	git Code
F Category	Employment Categorie	NAICS Code NAICS Title		NAICS Tifle	NAICS Code	
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	In-t-17					
	Retail Trade					
		44-45 Retail Trade				
			441	Motor Vehicle and Parts Dealers		
						New Car Dealers
					441120	Used Car Dealers
					441210	Recreational Vehicle Dealers
					441222	Boat Deglers
					441227	Motorcycle, ATV, and All Other Motor Vehicle Dealers
						Automotive Parts and Accessories Retailers
						Tire Dealers
			444	P-11-11 M-11-1 1 C1 F		
			444	Building Material and Garden E		
						Home Centers
					444120	Paint and Wallpaper Retailers
					444140	Hardware Retailers
					444180	Other Building Material Dealers
					444230	Outdoor Power Equipment Retailers
					444240	Nursery, Garden Center, and Farm Supply Retailers
			445	Food and Beverage Retailers		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
			-740		445110	Supermarkets and Other Grocery Retailers (except Convenience Retailers)
					445131	Convenience Retailers
					445132	Vending Machine Operators
					445230	Fruit and Vegetable Retailers
					445240	Meat Retailers
					445250	Fish and Seafood Retailers
					445291	Baked Goods Retailers
					445292	Confectionery and Nut Retailers
					445298	All Other Specialty Food Retailers
					445320	Beer, Wine, and Liquor Retailers
			449	Furniture, Home Furnishings, Ele		
			447	Tottillote, flottle Fortistiligs, Lie		Furniture Retailers
					449121	Floor Covering Retailers
						Window Treatment Retailers
					449129	All Other Home Furnishings Retailers
					449210	Electronics and Appliance Retailers
			455	General Merchandise Retailers		
					455110	Department Stores
					455211	Warehouse Clubs and Supercenters
					455219	All Other General Merchandise Retailers
			456	Health and Personal Care Retail		All Other General Merchanase keraliers
			456	Health and Personal Care Ketal		
					456110	Pharmacies and Drug Retailers
					456120	Cosmetics, Beauty Supplies, and Perfume Retailers
					456130	Optical Goods Retailers
					456191	Food (Health) Supplement Retailers
					456199	All Other Health and Personal Care Retailers
			457	Gasoline Stations and Fuel Deal	lers	
					457110	Gasoline Stations with Convenience Stores
						Other Gasoline Stations
					457210	Fuel Dealers
			458	Clathing Clathing Assessmins		
			430	Clothing, Clothing Accessories,	snoe, and Jewe	ny retailers
						Clothing and Clothing Accessories Retailers
						Shoe Retailers
					458310	Jewelry Retailers
					458320	Luggage and Leather Goods Retailers
			459	Sporting Goods, Hobby, Musica	I Instrument, Boo	
						Sporting Goods Retailers
					459120	Hobby, Toy, and Game Retailers
					459130	
						Sewing, Needlework, and Piece Goods Retailers
						Musical Instrument and Supplies Retailers
					459210	Book Retailers and News Dealers
					459310	Florists
					459410	Office Supplies and Stationery Retailers
					459420	Gift, Novelty, and Souvenir Retailers
					459510	Used Merchandise Retailers
					459910	Pet and Pet Supplies Retailers
					459910	Art Dealers
						Manufactured (Mobile) Home Dealers
					450001	Tobacco Electronic Ciagrette, and Other Smoking Supplier Retailers

MF Category	SCAG RTP/SCS Employment Categories	NAICS Correspondence NAICS Two Digit Code	NAICS Three NAICS Code	Digit Code	NAICS Six Dig	if Code
ice	Employment Categories	NAICS Code NAICS lifle	NAICS Code	NAICS Iffle	NAICS Code	NAICS Title
	Information	51 Information				
		51 Information	512	Motion Picture and Sound Record	ing Industries	
					512110	Motion Picture and Video Production
					512120	Motion Picture and Video Distribution
					512131 512132	Motion Picture Theaters (except Drive-Ins) Drive-In Motion Picture Theaters
					512191	Teleproduction and Other Postproduction Services
					512199	Other Motion Picture and Video Industries Music Publishers
					512230 512240	Sound Recording Studios
					512250	Record Production and Distribution
			513	Buddle budden	512290	Other Sound Recording Industries
			513	Publishing Industries	513110	Newspaper Publishers
					513120	Periodical Publishers
					513130	Book Publishers
					513140	Directory and Mailing List Publishers Greeting Card Publishers
					513199	All Other Publishers
				B	513210	Software Publishers
			516	Broadcasting and Content Provide	516110	Radio Broadcasting Stations
					516120	Television Broadcasting Stations
				T-1	516210	Media Streaming Distribution Services, Social Networks, and Other Media Networks and Content Providers
			517	Telecommunications	517111	Wired Telecommunications Carriers
					517112	Wireless Telecommunications Carriers (except Satellite)
					517121	Telecommunications Resellers
					517122 517410	Agents for Wireless Telecommunications Services Satellite Telecommunications
					517810	All Other Telecommunications
			518	Computing Infrastructure Provider	s, Data Proces	sing, Web Hosting, and Related Services
			519	Web Search Portals, Libraries, Arc	hives, and Oth	Computing Infrastructure Providers, Data Processing, Web Hosting, and Related Services er Information Services
			- 017	rep search ronals, cibranes, Are	519210	Libraries and Archives
	F		1		519290	Web Search Portals and All Other Information Services
	Financial Activities	52 Finance and Insurance				
		or manee and moranee	521	Monetary Authorities-Central Ban		
			500	Contribution of the contribution of the lates	521110	Monetary Authorities-Central Bank
			522	Credit Intermediation and Related	522110	Commercial Banking
					522130	Credit Unions
					522180	Savings Institutions and Other Depository Credit Intermediation
					522210 522220	Credit Card Issuing Sales Financing
					522291	Consumer Lending
					522292	Real Estate Credit
					522299 522310	International, Secondary Market, and All Other Nondepository Credit Intermediation
					522320	Mortgage and Nonmortgage Loan Brokers Financial Transactions Processing, Reserve, and Clearinghouse Activities
					522390	Other Activities Related to Credit Intermediation
			523	Securities, Commodity Contracts,	523150	Investments and Related Activities
					523160	Investment Banking and Securities Intermediation Commodity Contracts Intermediation
					523210	Securifies and Commodity Exchanges
					523910 523940	Miscellaneous Intermediation
					523991	Portfolio Management and Investment Advice Trust, Fiduciary, and Custody Activities
					523999	Miscellaneous Financial Investment Activities
			524	Insurance Carriers and Related A		Discott He Incurence Conten
					524113 524114	Direct Life Insurance Carriers Direct Health and Medical Insurance Carriers
					524126	Direct Property and Casualty Insurance Carriers
					524127 524128	Direct Title Insurance Carriers Other Direct Insurance (except Life, Health, and Medical) Carriers
					524128	Other Direct Insurance (except Life, Health, and Medical) Carriers Reinsurance Carriers
					524210	Insurance Agencies and Brokerages
					524291	Claims Adjusting
					524292 524298	Pharmacy Benefit Management and Other Third Party Administration of Insurance and Pension Funds All Other Insurance Related Activities
			525	Funds, Trusts, and Other Financial	Vehicles	
					525110 525120	Pension Funds
					525120 525190	Health and Welfare Funds Other Insurance Funds
					525910	Open-End Investment Funds
					525920	Trusts, Estates, and Agency Accounts
	1	i .			525990	Other Financial Vehicles
		53 Real Estate and Rental and Leasin				
		53 Real Estate and Rental and Leasin	531	Real Estate		
		53 Real Estate and Rental and Leasin	531	Real Estate	531110	Lessors of Residential Buildings and Dwellings
		53 Real Estate and Rental and Leasin	531	Real Estate	531120	Lessors of Nonresidential Buildings (except Miniwarehouses)
		53 Real Estate and Rental and Leasin	531	Real Estate	531120 531130 531190	Lessors of Nonresidential Buldings (except Miniwarehouses) Lessors of Miniwarehouses and Self-Storage Units Lessors of Other Real Estate Property
		53 Real Estate and Rental and Leasin	531	Real Estate	531120 531130 531190 531210	Lessors of Norresidential Buildings (except Miniwarehouses) Lessors of Miniwarehouses and Self-Storage Units Lessors of Other Real Estate Property Offices of Real Estate Agents and Brokers
		53 Real Estate and Rental and Leasin	531	Real Estate	531120 531130 531190 531210 531311	Lessors of Nornesidentifal Bullding; (except Miniwarehouses) Lessors of Miniwarehouses and Self-Starage Units Lessors of Other Real Estate Property Offices of Real Estate Agents and Brokers Residential Property Managers
		53 Real Estate and Rental and Leasin	531	Real Estate	531120 531130 531190 531210 531311 531312	Lessors of Norresidential Buildings (except Miniwarehouses) Lessors of Miniwarehouses and Self-Storage Units Lessors of Other Real Estate Property Offices of Real Estate Agents and Brokers
		53 Real Estate and Rental and Leasin	531		531120 531130 531190 531210 531311 531312 531320	Lessors of Norresidential Buldings (except Miniwarehouses) Lessors of Nimiwarehouses and Self-Storage Units Lessors of Other Real Estate Property Offices of Roal Estate Agents and Brokers Residential Property Monagers Norresidential Property Monagers
		53 Real Estate and Rental and Leasin	531	Real Estate Rental and Leasing Services	531120 531130 531190 531210 531311 531312 531320 531390	Lessors of Norresidentifal Bulldings (except Miniwarehouses) Lessors of Miniwarehouses and Self-Starage Units Lessors of Other Real Estate Property Offices of Real Estate Agents and Brokers Residential Property Managers Norresidential Property Managers Offices of Real Estate Agents and Brokers Residential Property Managers Offices of Real Estate Approises Offices of Real Estate Approises
		53 Real Estate and Rental and Leasin	531		531120 531130 531190 531210 531311 531312 531320 531390	Lessors of Norresidential Buildings (except Miniwarehouses) Lessors of Nimiwarehouses and Self-Storage Units Lessors of Other Real Estate Property Offices of Real Estate Agents and Brokers Residential Property Monagers Norresidential Property Monagers Offices of Real Estate Agents and Brokers Offices of Real Estate Agents and Brokers Offices of Real Estate Approximate Passenger Car Rental
		53 Real Estate and Rental and Leasin	531		531120 531130 531190 531190 531210 531311 531312 531320 531390 531390	Lessors of Norresidential Buildings (except Miniwarehouses) Lessors of Other Real Estate Property Coffices of Real Estate Property Offices of Real Estate Agents and Broken Residential Property Monages Norresidential Property Monages Offices of Real Estate Agents and Broken Coffices of Real Estate Agents and Broken Offices of Real Estate Approximates Diffices of Real Estate Approximates Offices of Real Estate Approximates Diffices of Real Estate Approximates Truck United Proximates Approximates Truck Uniting Truck, and RV (Recreational Vehicle) Rental and Leasing
		53 Real Estate and Rental and Leasin	531		531120 531130 531130 531190 531210 531311 531312 531320 531390 532111 532112 532120 532210	Lessors of Norresidential Building; (except Miniwarehouses) Lessors of Nimiwenhouses and Self Starage Units Lessors of Other Real Estate Property Offices of Real Estate Apents and Brokes Residential Property Managers Norresidential Property Managers Norresidential Property Managers Offices of Real Estate Apportagers Offices of Real Estate Apportages Other Activities Related to Real Estate Passenger Car Rental Passenger Car Rental Passenger Car Leading Truck, Utility Trailer, and RY (Recreational Vehicle) Rental and Leasing Consumer Blocknois can Appliances Rental
		53 Real Estate and Rental and Leasin	531		\$31120 \$31130 \$31190 \$31210 \$31311 \$31312 \$31320 \$31390 \$32111 \$32112 \$32120 \$32220 \$322210	Lescro of Norresidential Building; (except Miniwarehouses) Lescro of Other Real Estate Property Offices of Real Estate Agents and Brokers Residential Property Monagers Norresidential Property Monagers Offices of Real Estate Agents and Brokers Residential Property Monagers Offices of Real Estate Agents and Brokers Offices of Real Estate Approximate Track Unity Tolking and Estate Offices of Real Estate Offices of Real Estate Approximate Offices of Real Estate Approxima
		53 Real Estate and Rental and Leasin	531		\$31120 \$31130 \$31190 \$31210 \$31312 \$31312 \$31312 \$31320 \$31390 \$32111 \$32112 \$32212 \$32221 \$32282 \$32282	Lessons of Norresidential Buildings (except Miniwarehouses) Lessons of Other Real Estate Property Clifices of Real Estate Property Offices of Real Estate Agents and Brokers Residential Property Monagers Norresidential Property Monagers Offices of Real Estate Agents and Brokers Residential Property Monagers Offices of Real Estate Agents and Brokers Offices of Real Estate Agents Offices of Real Estate Offices of Real Estate Agents Offices of Real E
		53 Real Estate and Rental and Leasin	531		\$31120 \$31130 \$31190 \$31210 \$31311 \$31312 \$31320 \$31390 \$32111 \$32112 \$32120 \$32210 \$32220 \$32281 \$32282 \$32283	Lessors of Norresidential Building; (except Miniwarehouses) Lessors of Other Real Estate Property Offices of Real Estate Property Offices of Real Estate Apens and Brokers Residential Property Managers Norresidential Property Managers Offices of Real Estate Apens and Brokers Offices of Real Estate Approaces Offices of Real Estate Approaces Offices of Real Estate Approaces Other Activities Related to Real Estate Passenger Car Rental Passenger Car Ceasing Truck, Utility Italier, and RY (Recreational Vehicle) Rental and Leasing Consumer Betachorics and Appliances Rental Formal Wear and Costume Rental Home Health Equipment Rental Home Health Equipment Rental
		53 Real Estate and Rental and Leasin	531		\$31120 \$31130 \$31190 \$31210 \$31312 \$31312 \$31320 \$31390 \$32111 \$32212 \$32210 \$32210 \$32220 \$32281 \$32282 \$32284	Lessors of Norresidential Buildings (except Miniwarehouses) Lessors of Other Real Estate Property Offices of Real Estate Property Offices of Real Estate Agents and Brokers Residential Property Monagers Norresidential Property Monagers Offices of Real Estate Approximates Offices of Real Estate Passenger Car Rental Passenger Car Rental Porture Vision Estate Applicates Offices of Real Estate Applications Offices of Offices Offices Offices of Offices Applications Offices of Offices Offices Offices of Offices Offices Offices of Offices Offices Offices of Offices Offices of Offices Offices Offices of Offices Offices Offices of Offices Offic
		53 Real Estate and Rental and Leasin	531		531120 531130 531190 531190 531210 531311 531312 531312 531320 532111 532112 532210 532281 532282 532284 532284 532284 532284 532284 532284	Lessors of Norresidential Bulldings (except Miniwarehouses) Lessors of Other Real Estate Property Offices of Real Estate Property Offices of Real Estate Apents and Brokers Residential Property Manager Residential Property Manager Norresidential Property Manager Norresidential Property Manager Offices of Real Estate Approalers Content Palential Passenger Car Rental Passenger Car Leasing Truck, Utility Trailer, and RY (Recreational Vehicle) Rental and Leasing Consumer Betachnois and Appliances Rental Formal Wear and Costume Rental Home Health Equipment Rental Home Health Equipment Rental
		53 Real Estate and Rental and Leasin	531		\$31120 \$31130 \$31130 \$31210 \$31210 \$31312 \$31312 \$31320 \$32111 \$32112 \$32120 \$32210 \$32228 \$3228 \$328 \$3	Lessors of Norresidential Buldings (except Miniwarehouses) Lessors of Other Real Estate Property Offices of Real Estate Property Offices of Real Estate Agents and Brokers Residential Property Managers Norresidential Property Managers Offices of Real Estate Approsers Offices Offices Offices Offices (Real Estate Offices) In Continue West and Costume Real University of Real Estate Offices (Real Estate Offices) I Home I testility Estate Offices (Real Estate Offices) I Home I testility Estate Offices (Real Estate Offices) All Other Consumer Goods Real offices (Real Estate Offices) Commercial Air, Roll, and Water transportation Equipment Real and Leasing Construction, Mining, and Forestly MacChinery and Equipment Real and Leasing
		53 Real Estate and Rental and Leasin	531		\$31120 \$31130 \$31190 \$31210 \$31210 \$31311 \$31311 \$31312 \$31320 \$32210 \$32210 \$32210 \$32220 \$32222 \$32228 \$32228 \$32228 \$32228 \$32234 \$32241 \$32241 \$32241 \$32241	Lessors of Norresidential Bulldings (except Miniwarehouses) Lessors of Other Real Estate Property Offices of Real Estate Property Offices of Real Estate Agents and Brokers Residential Property Monages Norresidential Property Monages Offices of Real Estate Agents and Brokers Offices of Real Estate Agents and Brokers Offices of Real Estate Approximates Offices of Real Estates Offices of Real Estates Offices Mochinery and Evaluments Offices Mochinery and Equipment Rental and Leasing Cornstruction, Mining, and Forestry Mochinery and Equipment Rental and Leasing Offices Mochinery and Equipment Rental and Leasing
		53 Real Estate and Rental and Leasin	531		\$31120 \$31130 \$31190 \$31210 \$31210 \$31312 \$31312 \$31312 \$31312 \$32120 \$32210 \$32210 \$32220 \$3220 \$320 \$3	Lessons of Norresidential Buildings (except Miniwarehouses) Lessons of Other Real Estate Property Offices of Real Estate Property Offices of Real Estate Agents and Brokers Residential Property Monagers Norresidential Property Monagers Offices of Real Estate Agents and Brokers Offices of Real Estate Agents and Brokers Offices of Real Estate Approises Offices Activities Realaded to Real Estate Passenger Car Leasing Trock, Utility Traillet, and RY (Recreational Vehicle) Rental and Leasing Consumer Bectionics and Appliances Rental Formal Water and Conturne Rental Home Health Equipment Rental Home Health Equipment Rental All Other Consumer Goods Rental General Rental Centers Commercial Air, Rail, and Water Transportation Equipment Rental and Leasing Office Machinery and Equipment Rental and Leasing

Category Employment	Detailed NAICS Correspondence NAICS Two Digit Code Categories NAICS Code NAICS Title	NAICS Three Digit Code NAICS Code NAICS Title	NAICS Six Digit Code NAICS Code NAICS Title
	nd Business Services	INAICS CODE NAICS IME	INAICS COUR INAICS IMP
Tiolessional	54 Professional, Scientific, a	nd Technical Services	
		541 Professional, Scientific,	and Technical Services
			541110 Offices of Lawyers 541120 Offices of Notaries
			541120 Offices of Nordines 541191 Title Abstract and Settlement Offices
			541199 All Other Legal Services
			541211 Offices of Certified Public Accountants
			541213 Tax Preparation Services 541214 Payroll Services
			541219 Other Accounting Services
			541310 Architectural Services
			541320 Landscape Architectural Services
			541330 Engineering Services 541340 Draffing Services
			541350 Building Inspection Services
			541360 Geophysical Surveying and Mapping Services
			541370 Surveying and Mapping (except Geophysical) Services 541380 Testing Laboratories and Services
			541410 Interior Design Services
			541420 Industrial Design Services
			541430 Graphic Design Services
			541490 Other Specialized Design Services
			541511 Custom Computer Programming Services 541512 Computer Systems Design Services
			541513 Computer Facilities Management Services
			541519 Other Computer Related Services
			541611 Administrative Management and General Management Consulting Services
			541612 Human Resources Consulting Services 541613 Marketing Consulting Services
			541614 Process, Physical Distribution, and Logistics Consulting Services
			541618 Other Management Consulting Services
			541620 Environmental Consulting Services 541690 Other Scientific and Technical Consulting Services
			541713 Research and Development in Nanotechnology
			541714 Research and Development in Biotechnology (except Nanobiotechnology)
			541715 Research and Development in the Physical, Engineering, and Life Sciences (except Nanotechnology and Bio
			541720 Research and Development in the Social Sciences and Humanities 541810 Advertising Agencies
			541810 Advertising Agencies 541820 Public Relations Agencies
			541830 Media Buying Agencies
			541840 Media Representatives
			541850 Indoor and Outdoor Display Advertising 541860 Direct Mail Advertising
			541870 Advertising Material Distribution Services
			541890 Other Services Related to Advertising
			541910 Marketing Research and Public Opinion Polling
			541921 Photography Studios, Portrait 541922 Commercial Photography
			541930 Translation and Interpretation Services
			541940 Veterinary Services
	55 Management of Compa	nice and Enterprises	541990 All Other Professional, Scientific, and Technical Services
	55 Management of Compa	551 Management of Comp	anies and Enterprises
			551111 Offices of Bank Holding Companies
			551112 Offices of Other Holding Companies 551114 Corporate, Subsidiary, and Regional Managing Offices
	56 Administrative and Supp	ort and Waste Management and Remediation Se	551114 Corporate, Subsidiary, and Regional Managing Offices ervices
		561 Administrative and Sup	port Services
			561110 Office Administrative Services 561210 Facilities Support Services
			561210 Facilities Support Services
			561311 Employment Placement Agencies
			561311 Employment Placement Agencies 561312 Executive Search Services
			561312 Executive Search Services 561320 Temporary Help Services
			561312 Executive Search Services 561320 Temporary Help Services 561330 Professional Employer Organizations
			561312 Executive Search Services 561320 Temporary Help Services 561330 Temporary Help Services 561330 Professional Employer Organizations 561410 Document Preparation Services
			561312 Executive Search Services 561320 Temporary Help Services 561330 Professional Employer Organizations 561410 Document Preparation Services 561421 Telephone Answering Services
			561312 Executive Search Services 561320 Temporary Help Services 561330 Professional Employer Organizations 561410 Document Preparation Services 561412 Telephone Answering Services 561422 Telemorkeling Bureaus and Other Contact Centers 561423 Private Mail Centers
			561312 Executive Search Services
			561312 Executive Search Services 561320 Temporary Helb Services 561330 Temporary Helb Services 561330 Professional Employer Organizations 561410 Document Preparation Services 561421 Telephone Ariswering Services 561422 Telembrakering Bureaus and Other Contact Centers 561431 Privach Moli Centers 561439 Other Business Service Centers (including Copy Shops) 561440 Collection Agencies
			561312 Executive Search Services
			561312 Executive Search Services
			561312 Executive Search Services 561320 Temporary Heib Services 561330 Temporary Heib Services 561330 Professional Employer Organizations 561410 Document Preparation Services 561421 Elephone Answering Services 561422 Itelephone Answering Services 561423 Itelemostelling Bureaus and Other Contact Centers 561439 Other Business Service Centers (including Copy Shops) 561439 Other Business Service Centers (including Copy Shops) 561450 Cellotion Agencies 561450 Cellotion Agencies 561467 (Credit Bureaus 561478 (Prosession Services 561497 (Court Reporting and Stenotype Services 561497 (A) Other Business Support Services
			561312 Executive Search Services 561320 Temporary Helb Services 561330 Professional Employer Organizations 561410 Document Preparation Services 561421 Telephone Answering Services 561422 Telembackeling Bureaus and Other Contact Centers 561431 Private Mail Centers 561431 Private Mail Centers 561439 Other Subjects Service Centers (including Copy Shops) 561440 Callection Agencies 561490 Credit Bureaus 561491 Repossession Services 561497 Court Reporting and Stenotype Services 561499 All Other Business Support Services 561499 All Other Business Support Services 561499 In Tarvel Agencies
			561312 Executive Search Services 561320 Temporary Heib Services 561330 Temporary Heib Services 561330 Professional Employer Organizations 561410 Document Preparation Services 561421 Telephone Answering Services 561422 Telephone Answering Services 561431 Private Mail Centers 561431 Private Mail Centers 561439 Other Business Service Centers (including Copy Shops) 561440 Collection Agencies 561491 Repossession Services 561491 Repossession Services 561491 All Other Business Support Services 561499 All Other Business Support Services 561499 Tour Operators 561520 Tour Operators
			561312 Executive Search Services 561320 Temporary Heb Services 561330 Temporary Heb Services 561330 Professional Employer Organizations 561410 Document Preparation Services 561421 Telephone Answering Services 561427 Telephone Answering Services 561431 Private Mail Centers 561431 Private Mail Centers 561431 Other Business Service Centers (including Copy Shops) 561440 Callection Agencies 561450 Credit Bureous 561450 Covent Services 561450 Count Reporting and Stenotype Services 561457 Repossession Services 561459 All Other Business Support Services 561510 Travel Agencies 561591 Courreption and Visitors Bureous 561591 Convention and Visitors Bureous 561591 Convention and Visitors Bureous 561599 All Other Travel Amangement and Reservation Services
			561312 Executive Search Services 561320 Temporary Heib Services 561330 Professional Employer Organizations 561410 Document Preparation Services 561421 Telephone Answering Services 561422 Telemotering Bureaus and Other Contact Centers 561431 Private Mail Centers 561431 Private Mail Centers 561439 Other Business Service Centers (including Copy Shops) 561440 Collection Agencies 561490 Credit Bureaus 561491 Repossession Services 561491 All Other Business Services 561492 Court Reporting and Stenotype Services 561499 All Other Business Support Services 561520 Tour Operators 561520 Tour Operators 561599 All Other Travel Arangement and Reservation Services 561599 All Other Travel Arangement and Reservation Services 561599 All Other Travel Arangement and Reservation Services 56151 Investment of Arangement and Reservation Services 56151 Investment and Search Business
			561312 Executive Search Services 561330 Temporary Helb Services 561330 Temporary Helb Services 561330 Temporary Helb Services 561421 Telephone Answering Services 561421 Telephone Answering Services 561422 Telephone Answering Services 561431 Private Mail Centers 561431 Private Mail Centers 561431 Private Mail Centers 561431 Private Mail Centers 561440 Clalaction Agencies 561440 Collection Agencies 561440 Centers 561450 Center Services 561471 Repossession Services 561471 Tervel Agencies 561571 Court Reporting and Stendype Services 561571 Court Fend Fend Services 561571 Court Fend Fend Services 561571 Court Fend Services 561571 Investigation and Visitors Bureaus 561579 All Other Travel Amangement and Reservation Services 561511 Investigation and Personal Background Check Services 561511 Investigation and Personal Background Check Services 561511 Investigation and Personal Background Check Services
			561312 Executive Search Services 561320 Temporary Hebi Services 561330 Temporary Hebi Services 561330 Professional Employer Organizations 561410 Document Preparation Services 561421 Telephone Answering Services 561422 Telephone Answering Services 561431 Private Mail Centers 561431 Private Mail Centers 561439 Other Business Service Centers (including Copy Shops) 561440 Collection Agencies 561490 Credit Bureaus 561491 Repossession Services 561491 All Other Business Support Services 561497 Court Reporting and Stenotype Services 561499 All Other Business Support Services 561520 Torrot Agencies 561520 Tour Operators 561599 All Other Travel Arangement and Reservation Services 561612 Secutify Guards and Patrol Services 561612 Secutify Guards and Patrol Services 561612 Secutify Guards and Patrol Services 561613 Amzered Car Services
			561312 Executive Search Services 561320 Temporary Heib Services 561330 Professional Employer Organizations 561410 Document Preparation Services 561421 Telephone Answering Services 561422 Telemotering Bureaus and Other Contact Centers 561431 Private Mail Centers 561439 Other Business Service Centers (including Copy Shops) 561440 Collection Agencies 561490 Credit Bureaus 561491 Repossession Services 561491 Repossession Services 561491 All Other Business Support Services 561497 All Other Business Support Services 561499 All Other Business Support Services 561520 Tour Operators 561520 Tour Agencies 561530 All Other Travel Anrangement and Reservation Services 5616121 Security Guards and Patrol Services 5616121 Security Guards and Patrol Services 5616121 Security Guards and Patrol Services 561621 Security Guards and Patrol Services 561621 Security Guards and Patrol Services 561621 Security Systems Services (except Locksmiths)
			561312 Executive Search Services 561320 Temporary Helb Services 561330 Temporary Helb Services 561330 Temporary Helb Services 561421 Telephone Answering Services 561421 Telephone Answering Services 561422 Telephone Answering Services 561431 Private Mail Centers 561431 Private Mail Centers 561431 Private Mail Centers 561430 Other Suspiess Service Centers (including Copy Shops) 561440 Callection Agencies 561440 Credit Buseuss 561490 Credit Buseuss 561491 Repossession Services 561491 All Other Suspiess Support Services 561491 All Other Suspiess Support Services 561591 Convention and Visitors Buseus 561591 Convention and Visitors Buseus 561591 Investigation and Personal Background Check Services 561611 Investigation and Personal Background Check Services 561613 Amorea Car Services 561613 Amorea Car Services 561612 Secutivity Systems Services (secept Locksmiths) 561622 Locksmiths 56170 Exterminating and Pest Control Services
			561312 Executive Search Services 561320 Temporary Heib Services 561330 Temporary Heib Services 561330 Professional Employer Organizations 561410 Document Preparation Services 561421 Telephone Answering Services 561422 Telephone Answering Services 561431 Private Mail Centers 561431 Private Mail Centers 561439 Other Business Service Centers (including Copy Shops) 561440 Collection Agencies 561490 Credit Bureaus 561491 Repossession Services 561491 All Other Business Services 561497 Court Reporting and Stenotype Services 561499 All Other Business Support Services 561500 Travel Agencies 561500 Travel Agencies 561500 Tour Operators 561501 Court Agencies 561501 Court Agencies 561612 Secutify Guards and Reservation Services 561612 Secutify Guards and Patrol Services 561613 Amarced Car Services 561621 Secutify Systems Services (secupit Locksmiths) 561710 Exterminating and Pest Control Services 561710 Exterminating and Pest Control Services 561710 Leterminating and Pest Control Services 561710 Leterminating and Pest Control Services 561710 Leterminating and Pest Control Services
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			561312 Executive Search Services 561320 Temporary Heib Services 561330 Professional Employer Organizations 561410 Document Preparation Services 561421 Telephone Answering Services 561422 Telemotering Bureaus and Other Contact Centers 561431 Private Mail Centers 561439 Other Business Service Centers (including Copy Shops) 561440 Collection Agencies 561490 Credit Bureaus 561491 Repossession Services 561491 All Other Business Services 561497 Court Reporting and Stenotype Services 561497 Court Reporting and Stenotype Services 561499 All Other Business Support Services 561590 Torrow Agencies 561500 Tour Operators 561500 Tour Operators 561501 Court Agencies 561612 Secutify Guards and Patrol Services 561612 Secutify Guards and Patrol Services 561613 Amorea Car Services 561613 Secutify Systems Services (secept Locksmiths) 561610 Leterminating and Pest Control Services 561610 Leterminating and Pest Control Services 561621 Determinating and Pest Control Services 561621 Leterminating and Pest Control Services 561730 Landscaping Services 561730 Other Services Buildings and Dewellings 561790 Other Services and Services
			561312 Executive Search Services 561320 Temporary Helb Service Organizations 561430 Temporary Helb Services 561320 Professional Employer Organizations 561421 Telephone Answering Services 561421 Telephone Answering Services 561421 Telephone Answering Services 561431 Private Mail Centers 561431 Private Mail Centers 561431 Other Business Service Centers (including Copy Shops) 561440 Collection Agencies 561450 Credit Bureaus 561491 Repossession Services 561491 Repossession Services 561491 All Other Business Support Services 561491 Tour Operations 561500 All Other Business Support Services 561611 Investigation and Personal Background Check Services 561613 Amorea Car Services 561613 Amorea Car Services 561613 Amorea Car Services 561613 Locksmiths 561710 Externationing and Pest Control Services 561720 Locksmiths 561710 Departmenting and Pest Control Services 561730 Londscaping Services 561740 Carpet and Uphablesy Cleaning Services 561740 Other Services 561790 Other Services Services 561910 Packaging and Lobeling Services
		642 World Management	561312 Executive Search Services 561320 Temporary Heib Services 561330 Professional Employer Organizations 561410 Document Preparation Services 561421 Telephone Answering Services 561422 Telemotering Bureaus and Other Contact Centers 561431 Private Mail Centers 561431 Private Mail Centers 561439 Other Business Service Centers (including Copy Shops) 561440 Collection Agencies 561490 Credit Bureaus 561491 Repossession Services 561497 Court Reporting and Stenotype Services 561497 Lord Fusiness Support Services 561499 All Other Business Support Services 561520 Torrot Agencies 561520 Tour Operators 561520 Tour Operators 561599 All Other Travel Arangement and Reservation Services 561612 Security Guards and Patrol Services 561612 Security Guards and Patrol Services 561613 Amarced Car Services 561621 Security Systems Services (secept Locksmiths) 561700 Janitodis Services 561730 Landscaping Services 561730 Under Services to Buildings and Dewellings 561790 Other Services to Buildings and Dewellings 561790 Other Services to Buildings and Dewellings 561900 All Other Support Services 561900 Convention and Itade Show Organizers 561900 Convention and Itade Show Organizers 561900 Convention and Services
		S62 Waste Management an	561312 Executive Search Services 561302 Temporary Helb Services 561303 Professional Employer Organizations 561410 Document Preparation Services 561421 Telephone Answering Services 561422 Telephone Answering Services 561422 Telephone Answering Services 561431 Private Mail Centers 561431 Private Mail Centers 561431 Private Mail Centers 561430 Other Susiness Service Centers (including Copy Shops) 561440 Callection Agencies 561450 Credit Bureaus 561491 Repossession Services 561492 Court Reporting and Stenotype Services 561492 Court Reporting and Stenotype Services 561499 All Other Business Support Services 561500 Tour Operations 561510 Travel Agencies 561501 Convention and Visitos Bureaus 561519 Convention and Visitos Bureaus 561519 Convention and Visitos Bureaus 561612 Security Courts and Patrol Services 56170 Lancitorian Services (except Locksmiths) 56170 Lancitorian Services 56170 Lancitorian Services 56170 Lancitorian Services 56170 Carpet and Uphoblery Cleaning Services 56170 All Other Support Services 56170 Carpet and Uphoblery Cleaning Services 56190 All Other Support Services
		562 Waste Management ar	561312 Executive Search Services 561302 Temporary Helb Services 561303 Professional Employer Organizations 561410 Document Preparation Services 561421 Telephone Answering Services 561422 Telephone Answering Services 561422 Telephone Answering Services 561431 Private Mail Centers 561431 Private Mail Centers 561431 Private Mail Centers 561430 Other Susiness Service Centers (including Copy Shops) 561440 Callection Agencies 561490 Credit Bureaus 561491 Repossession Services 561491 Repossession Services 561492 Court Reporting and Stenotype Services 561499 All Other Business Support Services 561591 Investigation and Pensorial Services 561591 Convention and Visitos Bureaus 561591 Convention and Visitos Bureaus 561591 Convention and Visitos Bureaus 56161 Investigation and Pensorial Background Check Services 56161 Investigation and Pensorial Background Check Services 56161 Security Courts and Partial Services 56170 Leatermine 56170 Leatermining and Pest Control Services 56170 Leatermining and Pest Control Services 56170 Leatermining and Pest Control Services 56170 Devices Provices 56170 Other Services 56170 Devices For Services 56170 Devices Telephone Services 56170 Devices Telephone Services 56170 Devices Services 56170 Devices Services Services 56170 Devices For Services 56170 Devices Telephone Services 56170 Devices Telephone Services 56170 Devices Telephone Services 56170 Devices Telephone Services 56170 Devices Services Services Services 56170 All Other Support Services 56170 All Other Support Services 56171 Solid Waste Collection 56211 Solid Waste Collection
		562 Waste Management an	561312 Executive Search Services 561300 Temporary Helb Service (Services) 561300 Temporary Helb Services 561300 Temporary Helb Services 561421 Telephone Answering Services 561421 Telephone Answering Services 561422 Telephone Answering Services 561421 Telephone Answering Services 561431 Private Mail Centers 561431 Private Mail Centers 561431 Private Mail Centers 561431 Other Business Services Centers (including Copy Shops) 561440 Collection Agencies 561440 Collection Agencies 561440 Collection Agencies 561440 Collection Agencies 561440 Content Services 561540 Content Services 561540 Content Services 561540 Content Services 561541 Investigation and Personal Background Check Services 561611 Investigation and Personal Background Check Services 561612 Security Guards and Personal Background Check Services 561613 Amorea Car Services 561612 Security Systems Services (secopt Locksmiths) 561622 Locksmiths 561720 Jornitorial Services 561720 Londoning and Pest Control Services 561971 Corpet and Uprobleter Cleaning Services 561972 Corpet and Uprobleter Cleaning Services 561973 Londocapung Services 561974 Corpet and Uprobleter Cleaning Services 561975 Corpet and Uprobleter Cleaning Services 561970 Londocapung Services
		562 Waste Management an	561312 Executive Search Services 561302 Temporary Helb Services 561303 Professional Employer Organizations 561410 Document Preparation Services 561421 Telephone Answering Services 561422 Telephone Answering Services 561422 Telephone Answering Services 561431 Private Mail Centers 561431 Private Mail Centers 561431 Private Mail Centers 561430 Other Susiness Service Centers (including Copy Shops) 561440 Callection Agencies 561450 Credit Bureaus 561491 Repossession Services 561492 Court Reporting and Stenotype Services 561492 Court Reporting and Stenotype Services 561499 All Other Business Support Services 561500 Tour Operations 561510 Trovate Agencies 561501 Tour Operations 561519 Convention and Visitos Bureaus 561519 Convention and Visitos Bureaus 561612 Secutify Courts and Patrol Services 561612 Secutify Courts and Patrol Services 561613 Ammored Car Services 56170 Lead Car Services 56171 Lead Car Services 56171 Lead Car Services
		562 Waste Management or	561312 Executive Search Services 561300 Temporary Helb Services 561300 Temporary Helb Services 561300 Temporary Helb Services 561421 Telephone Answering Services 561421 Telephone Answering Services 561422 Telephone Answering Services 561422 Telephone Answering Services 561431 Private Mail Centers 561431 Private Mail Centers 561431 Private Mail Centers 561431 Private Mail Centers 561440 Collection Agencies 561467 Reposession Services 561479 All Other Business Support Services 56159 Tour Operators 561591 Convention and Visitors Bureaus 561591 Convention and Visitors Bureaus 561597 All Other Travel Amangement and Reservation Services 561611 Investigation and Personal Background Check Services 561612 Secutive Quards and Personal Background Check Services 561613 Amanged Car Services 561613 Amanged Car Services 561612 Secutive Youther Services 561612 Secutive Youther Services 561613 Conventing and Personal Background Check Services 561613 Secutive Youther Services 561614 Secutive Tourness Services 561615 Corpert and Uproblery Cleaning Services 5616170 Corpert and Uproblery Cleaning Services 56170 Corpert and Uproblery Cleaning Services 56171 Hazardous Waste Collection 562111 Hazardous Waste Collection 562211 Hazardous Waste Collection 562211 Hazardous Waste Collection 562211 Hazardous Waste Collection 562211 Secutive Mail Collection
		562 Waste Management ar	561312 Executive Search Services 561300 Temporary Helb Services 561300 Temporary Helb Services 561300 Temporary Helb Services 561420 Document Preparation Services 561421 Telephone Answering Services 561421 Telephone Answering Services 561422 Telephone Answering Services 561431 Private Mail Centers 561431 Private Mail Centers 561431 Private Mail Centers 561431 Private Mail Centers 561440 Collection Agencies 561440 Cellection Agencies 561440 Cellection Agencies 561440 Cellection Agencies 561470 Court Reporting and Stendrype Services 561471 Toxical Agencies 561571 Court Reporting and Stendrype Services 561570 Court Perporting and Stendrype Services 561571 Court Perporting and Visitors Bureaus 561579 All Other Travel Arrangement and Reservation Services 561611 Investigation and Personal Background Check Services 561612 Secutify Courds and Personal Background Check Services 561613 Armared Car Services 561612 Secutify Systems Services (sexcept Locksmiths) 561622 Locksmiths 561720 Jonitorial Services 561720 Locksmiths 561720 Corpet and Upholatery Cleaning Services 561721 Centering and Coefficien 562111 Hazardous Waste Collection 562111 Hazardous Waste Collection 56221 Social Waste Combustos and Incinerators 56221 Social Waste Combustos and Incinerators 56221 Solid Waste Combustos and Incinerators
		562 Waste Management ar	561312 Executive Search Services 561302 Temporary Helb Services 561303 Professional Employer Organizations 561410 Document Preparation Services 561421 Telephone Answering Services 561422 Telephone Answering Services 561422 Telephone Answering Services 561431 Private Mail Centlers 561431 Private Mail Centlers 561431 Private Mail Centlers 561430 Other Susiess Service Centers (including Copy Shops) 561440 Callection Agencies 561490 Credit Bureaus 561491 Repossession Services 561492 Court Reporting and Stenotype Services 561492 Court Reporting and Stenotype Services 561499 All Other Business Support Services 561500 I Tour Operators 561500 I Tour Operators 561501 I Tour Agencies 561501 Convention and Visitors Bureaus 561519 All Other Invest Arangement and Reservation Services 561612 Security Courts and Partial Services 561613 Ammored Car Services 561613 Ammored Car Services 56170 London Services 56170 Carpet and Uphoblery Cleaning Services 56170 London Services 56170 Carpet and Uphoblery Cleaning Servic
		562 Waste Management an	561312 Executive Search Services 561300 Temporary Helb Services 561300 Temporary Helb Services 561300 Temporary Helb Services 561420 Document Preparation Services 561421 Telephone Answering Services 561421 Telephone Answering Services 561422 Telephone Answering Services 561431 Private Mail Centers 561431 Private Mail Centers 561431 Private Mail Centers 561431 Private Mail Centers 561440 Collection Agencies 561440 Cellection Agencies 561440 Cellection Agencies 561440 Cellection Agencies 561470 Court Reporting and Stendrype Services 561471 Toxical Agencies 561571 Court Reporting and Stendrype Services 561570 Court Perporting and Stendrype Services 561571 Court Perporting and Visitors Bureaus 561579 All Other Travel Arrangement and Reservation Services 561611 Investigation and Personal Background Check Services 561612 Secutify Courds and Personal Background Check Services 561613 Armared Car Services 561612 Secutify Systems Services (sexcept Locksmiths) 561622 Locksmiths 561720 Jonitorial Services 561720 Locksmiths 561720 Corpet and Upholatery Cleaning Services 561721 Centering and Coefficien 562111 Hazardous Waste Collection 562111 Hazardous Waste Collection 56221 Social Waste Combustos and Incinerators 56221 Social Waste Combustos and Incinerators 56221 Solid Waste Combustos and Incinerators

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mr Category	Employment Categories	NAICS Two Digit Code NAICS Code NAICS Title	NAICS Code NAICS Title		NAICS Title
	Education and Health Se		,	,	
	Education and Realin Se	61 Educational Services			
		81 Educational Services	611 Educational Services		
			611 Educational Services	(11110	Florence and Consequence Colonials
					Elementary and Secondary Schools
				611210	Junior Colleges
				611310	Colleges, Universifies, and Professional Schools
				611410	Business and Secretarial Schools
				611420	Computer Training
				611430	Professional and Management Development Training
				611511	Cosmetology and Barber Schools
				611512	Flight Training
				611513	Apprenticeship Training
				611519	Other Technical and Trade Schools
				611610	Fine Arts Schools
				611620	Sports and Recreation Instruction
				611630	Language Schools
				611691	Exam Preparation and Tutoring
				611692	Automobile Driving Schools
				611699	All Other Miscellaneous Schools and Instruction
				611710	Air Order installations actions and instruction
		/0 U W. O	totana a -	811/10	Educational Support Services
	I	62 Health Care and Social Ass	instance		
			621 Ambulatory Health Care		I am and a second
				621111	Offices of Physicians (except Mental Health Specialists)
				621112	Offices of Physicians, Mental Health Specialists
				621210	Offices of Dentists
	I			621310	Offices of Chiropractors
				621320	Offices of Optometrists
	I			621330	Offices of Mental Health Practitioners (except Physicians)
	I			621340	Offices of Physical, Occupational and Speech Therapists, and Audiologists
				621391	Offices of Podiatrists
				621399	Offices of All Other Miscellaneous Health Practitioners
	I			621410	Family Planning Centers
				621420	Outpatient Mental Health and Substance Abuse Centers
				621491	HMO Medical Centers
				621492	Kidney Dialysis Centers
				621493	
				621498	Freestanding Ambulatory Surgical and Emergency Centers All Other Outpatient Care Centers
				621511	Medical Laboratories
				621512	Diagnostic Imaging Centers
				621610	Home Health Care Services
				621910	Ambulance Services
				621991	Blood and Organ Banks
				621999	All Other Miscellaneous Ambulatory Health Care Services
			622 Hospitals		
				622110	General Medical and Surgical Hospitals
				622210	Psychiatric and Substance Abuse Hospitals
				622310	Specialty (except Psychiatric and Substance Abuse) Hospitals
			623 Nursing and Residential C	Care Facilities	
				623110	Nursing Care Facilities (Skilled Nursing Facilities)
				623210	Residential Intellectual and Developmental Disability Facilities
				623220	Residential Mental Health and Substance Abuse Facilities
				623311	Continuing Care Retirement Communities
				623312	Assisted Living Facilities for the Elderly
				623990	Other Residential Care Facilities
			624 Social Assistance	023770	Office Residential Care racinities
			824 SOCIAI ASSISIANCE	624110	Child and Youth Services
	I			624120	Services for the Elderly and Persons with Disabilities
				624190	Other Individual and Family Services
	I			624210	Community Food Services
				624221	Temporary Shelters
	I			624229	Other Community Housing Services
	I			624230	Emergency and Other Relief Services
	I			624310	Vocational Rehabilitation Services
				624410	Child Care Services
	Leisure and Hospitality				
		71 Arts, Entertainment, and Re			
	I		711 Performing Arts, Spectato	or Sports, and Related	Industries
	I			711110	Theater Companies and Dinner Theaters
				711120	Dance Companies
	I			711130	Musical Groups and Artists
				711190	Other Performing Arts Companies
	I			711211	Sports Teams and Clubs
	I			711212	Racetracks
				711212	Other Spectator Sports
	I		1	711310	Promoters of Performing Arts, Sports, and Similar Events with Facilities
				711310	Promotes of Performing Arts, Sports, and Similar Events without Excitition
	I		1	711320	Promoters of Performing Arts, Sports, and Similar Events without Facilities Accepts and Managers for Artists, Athletes, Entartainers, and Other Public Ejaures
					Agents and Managers for Artists, Athletes, Entertainers, and Other Public Figures
	I		710 11	/11510	Independent Artists, Writers, and Performers
			712 Museums, Historical Sites		
				712110	Museums
				712120	Historical Sites
				712130	Zoos and Botanical Gardens
				712190	Nature Parks and Other Similar Institutions
			713 Amusement, Gambling, a		
				713110	Amusement and Theme Parks
			1	713120	Amusement Arcades
			1		Casinos (except Casino Hotels)
				713210 713290	
				713290	Other Gambling Industries
				713290 713910	Other Gambling Industries Golf Courses and Country Clubs
				713290 713910 713920	Other Gambling Industries Golf Courses and Country Clubs Skiling Facilities
				713290 713910 713920 713930	Other Gambling Industries Gall Course Country Clubs Skiing Facilities Marines
				713290 713910 713920	Other Gambling Industries Golf Courses and Country Clubs Skiling Facilities

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		NAICS Code NAICS Title		NAICS Title	NAICS Code	
=	I caregories			- Iteration time	TIVATOD COUC	I Marco IIII.
		72 Accommodation and Food Service				
			721	Accommodation		
					721110	Hotels (except Casino Hotels) and Motels
					721120	Casino Hotels
					721191	Bed-and-Breakfast Inns
					721199	All Other Traveler Accommodation
					721211	RV (Recreational Vehicle) Parks and Campgrounds
					721214	Recreational and Vacation Camps (except Campgrounds)
					721310	
						Rooming and Boarding Houses, Dormitories, and Workers' Camps
			722	Food Services and Drinking Place		
					722310	Food Service Contractors
					722320	Caterers
					722330	Mobile Food Services
					722410	Drinking Places (Alcoholic Beverages)
					722511	Full-Service Restaurants
					722513	Limited-Service Restaurants
			1		722514	Cafeterias, Grill Buffets, and Buffets
			1			
	011	L			722515	Snack and Nonalcoholic Beverage Bars
	Other Service					
		81 Other Services (except Public Ad				
			811	Repair and Maintenance		
					811111	General Automotive Repair
					811114	Specialized Automotive Repair
					811121	Automotive Body, Paint, and Interior Repair and Maintenance
					811122	Automotive Glass Replacement Shops
					811191	Automotive Oil Change and Lubrication Shops
					811192	Car Washes
					811198	All Other Automotive Repair and Maintenance
					811210	Electronic and Precision Equipment Repair and Maintenance
					811310	Commercial and Industrial Machinery and Equipment (except Automotive and Electronic) Repair and Mainter
					811411	Home and Garden Equipment Repair and Maintenance
					811412	Appliance Repair and Maintenance
					811420	Reupholstery and Furniture Repair
					811430	Footwear and Leather Goods Repair
					811490	Other Personal and Household Goods Repair and Maintenance
			812	Personal and Laundry Services	011470	Other reisonar and noosenoid Goods Repair and Maintenance
				rersonal and Launary Services		
	l					
			- 0.2		812111	Barber Shops
			0.2		812112	Beauty Salons
			0.2			
			0.2		812112	Beauty Salons
			0.12		812112 812113 812191	Beauty Salons Nall Salons Diet and Weight Reducing Centers
			0.12		812112 812113 812191 812199	Beauty Salans Nail Salans Diet and Weight Reducing Centers Other Personal Care Services
			0.1		812112 812113 812191 812199 812210	Beauty Salons Nali Salons Nali Salons Diet and Weight Reducing Centers Other Personal Care Services Funeral Homes and Funeral Services
			0.2		812112 812113 812191 812199 812210 812220	Beauty Salans Mail Salans Diet and Weight Reducing Centers Other Personal Care Services Funeral Homes and Funeral Services Cemeteries and Cemendories
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			0.2		812112 812113 812191 812199 812210 812220 812310 812320	Beauty Solons Mail Satons Diet and Weight Reducing Centers Other Personal Care Services Funeral Homes and Funeral Services Cemeteries and Cematories Coin-Operated Laundries and Drycleanes Drycleaning and Laundry Services (except Coin-Operated)
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			813	Religious, Grantmaking, Civic, Pr	812112 812113 812191 812197 812210 812210 812210 812320 812331 812332 812910 812922 812920 812990 812990 stessional, and	Beauty Solons Mail Salons Diet and Weight Reducing Centers Other Personal Cree Services Funeral Homes and Funeral Services Coin-Operated Loundries and Drycleannes Drycleaning and Loundry Services (except Coin-Operated) Linen Supply Linen Supply Industrial Lounderes Pet Care (except Veterinary) Services Pet Care (except Veterinary) Services Protofinishing Loundries All Other Presonal Services All Other Personal Services Similar Organizations
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					921120	Legislative Bodies				
					921130	Public Finance Activities				
					921140	Executive and Legislative Offices, Combined				
					921150	American Indian and Alaska Native Tribal Governments				
					921190	Other General Government Support				
			922	Justice, Public Order, and Safe						
					922110	Courts				
					922120	Police Protection				
					922130	Legal Counsel and Prosecution				
					922140	Correctional Institutions				
					922150	Parole Offices and Probation Offices				
					922160	Fire Protection				
					922190	Other Justice, Public Order, and Safety Activities				
			923	Administration of Human Reso						
					923110	Administration of Education Programs				
					923120	Administration of Public Health Programs				
					923130	Administration of Human Resource Programs (except Education, Public Health, and Veterans' Affairs Programs)				
					923140	Administration of Veterans' Affairs				
			924	Administration of Environment						
						Administration of Air and Water Resource and Solid Waste Management Programs				
					924120	Administration of Conservation Programs				
			925	Administration of Housing Prog		ning, and Community Development				
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					925120	Administration of Urban Planning and Community and Rural Development				
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					926110	Administration of General Economic Programs				
					926120	Regulation and Administration of Transportation Programs				
					926130	Regulation and Administration of Communications, Electric, Gas, and Other Utilities				
					926140	Regulation of Agricultural Marketing and Commodities				
					926150	Regulation, Licensing, and Inspection of Miscellaneous Commercial Sectors				
			927	Space Research and Technolo						
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			928	National Security and Internati						
					928110	National Security				
					928120	International Affairs				

SCAG 2020 RTP/SCS
California Employment Development Department (EDD)
US Census Bureau, North American Industry Classification System (NAICS), 2022

Appendix C - Western Riverside County Traffic Growth 2018 – 2045

Existing (2018) and future (2045) traffic data were derived from RivCoM. The model area of coverage, level of roadway network and TAZ detail, and application on other regional transportation study efforts represented RivCoM as the appropriate tool for evaluating traffic growth as part of the Nexus Study.

The forecasts of existing and future congestion levels were derived from the Year 2018 Existing and Year 2045 No-Build scenarios, respectively. The 2018 Existing and 2045 No-Build scenarios were developed using RivCoM to model 2018 and 2045 SED, respectively, as derived from the SCAG 2020 RTP/SCS adopted SED forecasts, on the transportation network as it existed in 2021. The 2018 existing transportation network represents the most recent baseline network developed for RivCoM, and only reflects the inclusion of those projects that were funded, committed and under construction at that time, and therefore imminently to be part of the baseline transportation system in 2018. For the purposes of the TUMF network analysis, additional improvements on the TUMF arterial highway network that were either completed or under construction in the period between 2018 and December 2021 were added to the network to create a 2021 existing network. The 2021 existing network was subsequently modeled in RivCoM using both 2018 and 2045 SED to provide the 2018 Baseline and 2045 No-Build scenarios as the basis for comparison and analysis. The 2045 No-Build scenario did not include transportation improvements that are planned as part of the recently adopted SCAG 2020 RTP/SCS on the basis they are uncommitted (meaning that their implementation is dependent on securing future funding and approval). Inclusion of the uncommitted improvements masks the congestion effects of increasing travel. Inclusion of these improvements and the resultant masking is not appropriate for this analysis aimed at identifying the effects of increasing travel if improvements were not built.

The WRCOG TUMF study area was extracted from RivCoM for the purpose of calculating the following measures for Western Riverside County only. Traffic growth impacts for each of the two scenarios were calculated using the TransCAD platform.

- Total daily vehicle miles of travel (VMT),
- > Total daily VMT on facilities experiencing LOS E or worse.
- > Total daily vehicle hours of travel (VHT), and
- > Total combined daily vehicle hours of delay (VHD)

The following formulas were used to calculate the respective values.

- VMT = Link Distance * Total Daily Volume
- VHT = Average Loaded (Congested) Link Travel Time * Total Daily Volume
- VHD = VHT (Free-flow (Uncongested) Link Travel Time * Total Daily Volume)
- ➤ VMT LOS E or F = VMT (on links where Daily V/C exceeded 0.90)¹³

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¹³ LOS Thresholds for LOS E are based on the 2010 Edition of the <u>Highway Capacity Manual</u> (Transportation Research Board, National Research Council, Washington, D.C., 2010) LOS Maximum V/C Criteria for Multilane Highways with 45 mph Free Flow Speed (Exhibit 14-5, Chapter 14, Page 14-5).

RivCoM breaks down its roadway network into functional categories called assignment groups. The measures were calculated selectively for all facilities, freeways only, arterials only, and TUMF arterials only by including and excluding different assignment groups and facilities. For the calculation of measures on "all facilities", only the centroid connectors were excluded. Arterial values excluded all mixed-flow to carpool lane connector ramps, freeways, carpool lanes, centroid connectors, and freeway-to-freeway connector ramps, respectively. Freeways were defined as including mixed-flow to carpool lane connector ramps, freeways, carpool lanes, and freeway-to-freeway connector ramps, respectively.

The 2021 Existing Network by Facility Type is included in this Appendix as **Exhibit C-1**. The 2021 existing network was used as the basis for the 2018 Existing and 2045 No-Build scenarios by modeling 2018 and 2045 SED, respectively, on the 2021 existing network using RivCoM to determine the comparative effects of population, household an employment growth in the region. The results of the analysis of existing and future congestion levels are presented for peak periods in **Exhibit C-2** and for daily in **Exhibit C-3** in this Appendix and extracted for the combined peak periods in **Table 3.1** of the study report.

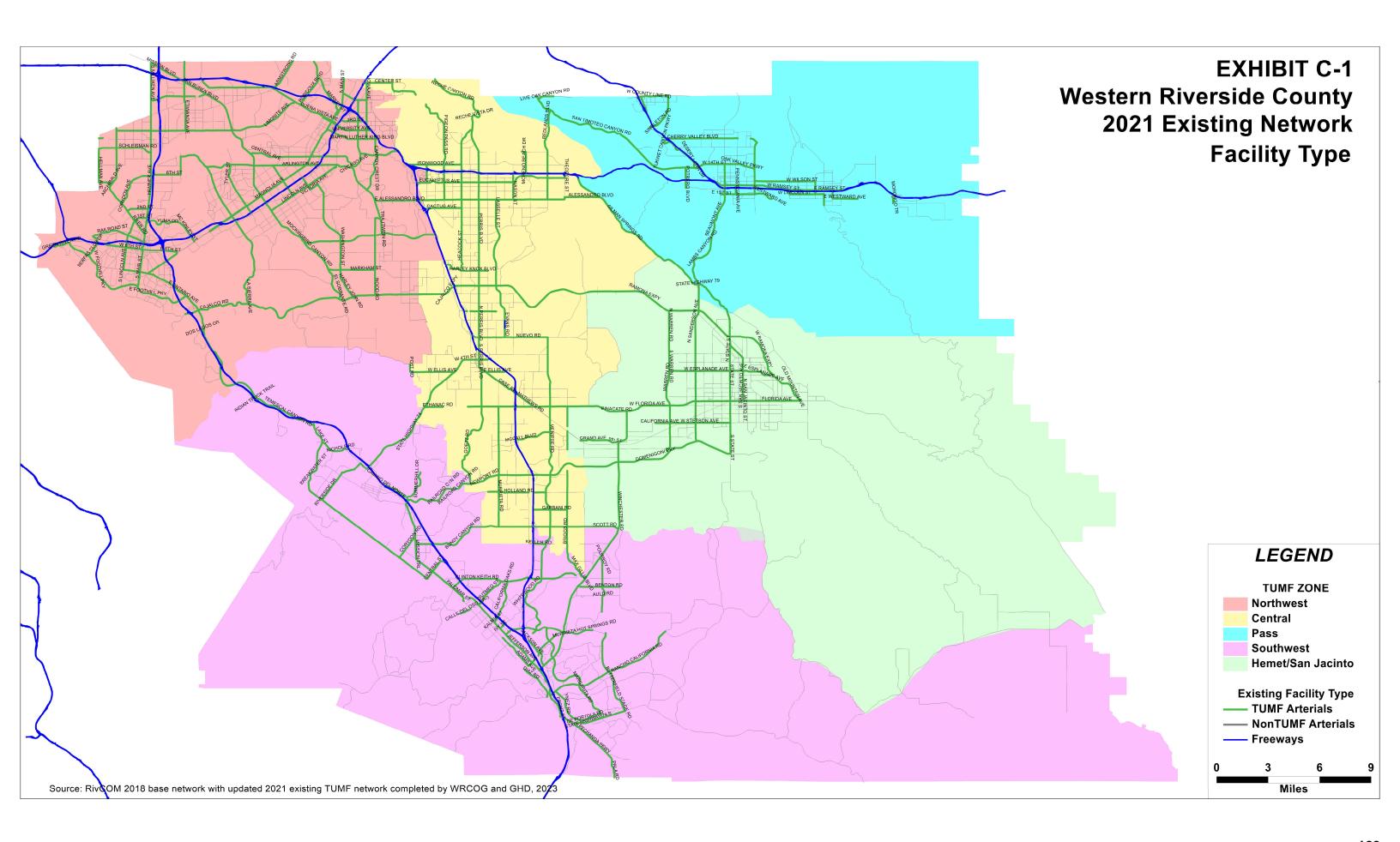


EXHIBIT C-2 Western Riverside County Regional Highway System Measures of Performance (2018 - 2045) - Peak Periods

		AM Pe	eak		PM Peak				
Measures of Performance	2018	2045	% Change	% Annual	2018	2045	% Change	% Annual	
VMT - Total ALL FACILITIES	10,324,900	13,225,039	28%	0.9%	12,959,824	16,672,215	29%	0.9%	
VMT - FREEWAYS	5,877,972	6,720,682	14%	0.5%	7,636,550	8,769,602	15%	0.5%	
VMT - ALL ARTERIALS	4,446,928	6,504,357	46%	1.4%	5,323,274	7,902,613	48%	1.5%	
TOTAL - TUMF ARTERIAL VMT	2,793,846	3,826,810	37%	1.2%	3,423,139	4,770,390	39%	1.2%	
VHT - TOTAL ALL FACILITIES	251,133	435,243	73%	2.1%	290,218	480,196	65%	1.9%	
VHT - FREEWAYS	120,257	186,102	55%	1.6%	143,535	213,027	48%	1.5%	
VHT - ALL ARTERIALS	130,875	249,142	90%	2.4%	146,683	267,169	82%	2.2%	
TOTAL TUMF ARTERIAL VHT	81,578	154,106	89%	2.4%	92,877	166,763	80%	2.2%	
VHD - TOTAL ALL FACILITIES	57,989	177,814	207%	4.2%	50,911	160,242	215%	4.3%	
VHD - FREEWAYS	34,221	86,616	153%	3.5%	31,935	84,033	163%	3.6%	
VHD - ALL ARTERIALS	23,768	91,198	284%	5.1%	18,977	76,209	302%	5.3%	
TOTAL TUMF ARTERIAL VHD	18,024	66,789	271%	5.0%	15,225	58,074	281%	5.1%	
VMT LOS E & F - TOTAL ALL FACILITIES	2,960,551	6,364,419	115%	2.9%	2,644,519	7,005,063	165%	3.7%	
VMT LOS E & F - FREEWAYS	2,435,804	4,276,258	76%	2.1%	2,289,667	5,040,633	120%	3.0%	
VMT LOS E & F - ALL ARTERIALS	524,747	2,088,161	298%	5.2%	354,852	1,964,430	454%	6.5%	
TOTAL TUMF ARTERIAL VMT w/ LOS E & F	448,168	1,585,571	254%	4.8%	317,614	1,598,561	403%	6.2%	
% of TUMF ARTERIAL VMT w/ LOS E & F	16%	41%			9%	34%			

^{*} Based on RivCoM 2018 network and SCAG 2020 RTP/SCS SED with updated 2021 arterial network completed.

NOTES:

Volume is adjusted by PCE factor

VMT = vehicle miles of travel (the total combined distance that all vehicles travel on the system)

VHT = vehicle hours of travel (the total combined time that all vehicles are traveling on the system)

VHD = vehicle hours of delay (the total combined time that all vehicles have been delayed on the system based on the difference between forecast travel time and free-flow (ideal) travel time)

LOS = level of service (based on forecast volume to capacity ratios).

LOS E or Worse was determined by V/C ratio that exceeds 0.9 thresholds as indicated in the Riverside County General Plan.

EXHIBIT C-3

Western Riverside County
Regional Highway System Measures of Performance (2018 - 2045) – Daily

		Peak Period	ds (Total)		Daily			
Measures of Performance	2018	2045	% Change	% Annual	2018	2045	% Change	% Annual
VMT - Total ALL FACILITIES	23,284,724	29,897,254	28%	0.9%	41,378,907	53,832,389	30%	1.0%
VMT - FREEWAYS	13,514,522	15,490,284	15%	0.5%	24,642,357	29,200,582	18%	0.6%
VMT - ALL ARTERIALS	9,770,202	14,406,970	47%	1.4%	16,736,551	24,631,807	47%	1.4%
TOTAL - TUMF ARTERIAL VMT	6,216,985	8,597,200	38%	1.2%	10,794,415	15,170,125	41%	1.3%
VHT - TOTAL ALL FACILITIES	541,350	915,439	69%	2.0%	893,813	1,433,458	60%	1.8%
VHT - FREEWAYS	263,792	399,128	51%	1.5%	440,073	637,990	45%	1.4%
VHT - ALL ARTERIALS	277,558	516,311	86%	2.3%	453,740	795,469	75%	2.1%
TOTAL TUMF ARTERIAL VHT	174,455	320,869	84%	2.3%	285,520	496,757	74%	2.1%
VHD - TOTAL ALL FACILITIES	108,900	338,056	210%	4.3%	131,965	410,511	211%	4.3%
VHD - FREEWAYS	66,156	170,649	158%	3.6%	79,532	208,287	162%	3.6%
VHD - ALL ARTERIALS	42,745	167,407	292%	5.2%	52,434	202,223	286%	5.1%
TOTAL TUMF ARTERIAL VHD	33,249	124,863	276%	5.0%	41,025	152,200	271%	5.0%
VMT LOS E - TOTAL ALL FACILITIES	5,605,070	13,369,483	139%	3.3%	6,153,146	16,090,205	161%	3.6%
VMT LOS E - FREEWAYS	4,725,471	9,316,891	97%	2.5%	5,141,215	11,306,348	120%	3.0%
VMT LOS E & F - ALL ARTERIALS	879,599	4,052,592	361%	5.8%	1,011,931	4,783,858	373%	5.9%
TOTAL TUMF ARTERIAL VMT w/ LOS E or worse	765,782	3,184,133	316%	5.4%	878,465	3,819,635	335%	5.6%
% of TUMF ARTERIAL VMT w/ LOS E or worse	12%	37%			8%	25%		

^{*} Based on RivCoM 2018 network and SCAG 2020 RTP/SCS SED with updated 2021 arterial network completed.

NOTES:

Volume is adjusted by PCE factor

VMT = vehicle miles of travel (the total combined distance that all vehicles travel on the system)

VHT = vehicle hours of travel (the total combined time that all vehicles are traveling on the system)

VHD = vehicle hours of delay (the total combined time that all vehicles have been delayed on the system based on the difference between forecast traction LOS = level of service (based on forecast volume to capacity ratios).

LOS E or Worse was determined by V/C ratio that exceeds 0.9 thresholds as indicated in the Riverside County Generc

Appendix D - Western Riverside County Bus Transit System Ridership 2023 – 2045

Actual average weekday daily ridership for Riverside Transit Agency (RTA) transit bus services was tabulated for 2023. Forecast average weekday daily ridership for RTA bus transit services was retrieved from the SCAG 2020 RTP/SCS Model for horizon year 2045. The bus transit ridership for 2023 and 2045 was tabulated to represent existing and future regional bus transit trips consistent with the analysis of highway trips described in **Section** 3.1 and Appendix C. Table D-1 summarizes the weekday bus transit ridership in Western Riverside County.

TABLE D-1 - Regional Bus Transit Weekday System Ridership

Year	Western Riverside Weekday Projected System Ridership
2023*	16,575
2045**	57,282

Notes: * - 2023 actual average weekday daily ridership provided by RTA staff December 1, 2023

^{** - 2045} forecast average weekday daily ridership obtained from SCAG 2020 RTP/SCS Model as provided by Fehr and Peers, November 28, 2023

Appendix E - Western Riverside County Regional System of Highways and Arterials Performance Measures

An integral element of the Nexus Study is the designation of the Western Riverside County Regional System of Highways and Arterials (also referred to as the "TUMF Network"). This network of regionally significant highways represents those arterial and collector highway and roadway facilities that primarily support inter-community trips in Western Riverside County and supplement the regional freeway system, and represents the extents of the network of highways and roadways that would be eligible for TUMF funded improvements. The Regional System of Highways and Arterials does NOT include the freeways of Western Riverside County which primarily serve inter-regional trips.

The designation of the Regional System of Highways and Arterials in the original TUMF Nexus Study adopted by the WRCOG Executive Committee in October 2002 was initiated with the identification of highways and roadways that met certain specified guidelines as defined by the WRCOG Public Works Committee. The guidelines are defined in **Section 4.1** of the Nexus Report, and include:

- 1. Arterial highway facilities proposed to have a minimum of four lanes at future buildout (not including freeways).
- 2. Facilities that serve multiple jurisdictions and/or provide connectivity between communities both within and adjoining Western Riverside County.
- 3. Facilities with forecast traffic volumes in excess of 20,000 vehicles per day in the future horizon year.
- 4. Facilities with forecast volume to capacity ratio of 0.90 (LOS E) or greater in the future horizon year.
- 5. Facilities that accommodate regional fixed route transit services.
- 6. Facilities that provide direct access to major commercial, industrial, institutional, recreational or tourist activity centers, and multi-modal transportation facilities (such as airports, railway terminals and transit centers).

The original candidate facilities were identified by overlaying various transportation system and land use plots depicting parameters consistent with those defined by the specified guidelines. These plots included existing and proposed numbers of lanes, network volumes and volume to capacity ratio (LOS) derived from SCAG CTP Model networks developed by Transcore to support the ongoing Western Riverside County CETAP study, and existing land use information provided by SCAG. These plots were included in the Appendices that accompanied the original 2002 TUMF Nexus Study. Fixed route transit service information was provided by the Riverside County Regional Transportation Authority (RTA).

These various data inputs were overlaid and reviewed leading the definition of a segmented skeletal network of highways and roadways for further consideration. The skeletal network was further enhanced to reflect regional connectivity and access to activity center considerations. An initial draft Regional System of Highways and Arterials was developed and subsequently distributed to the County of Riverside and each City in Western Riverside County for review in the context of their respective City General

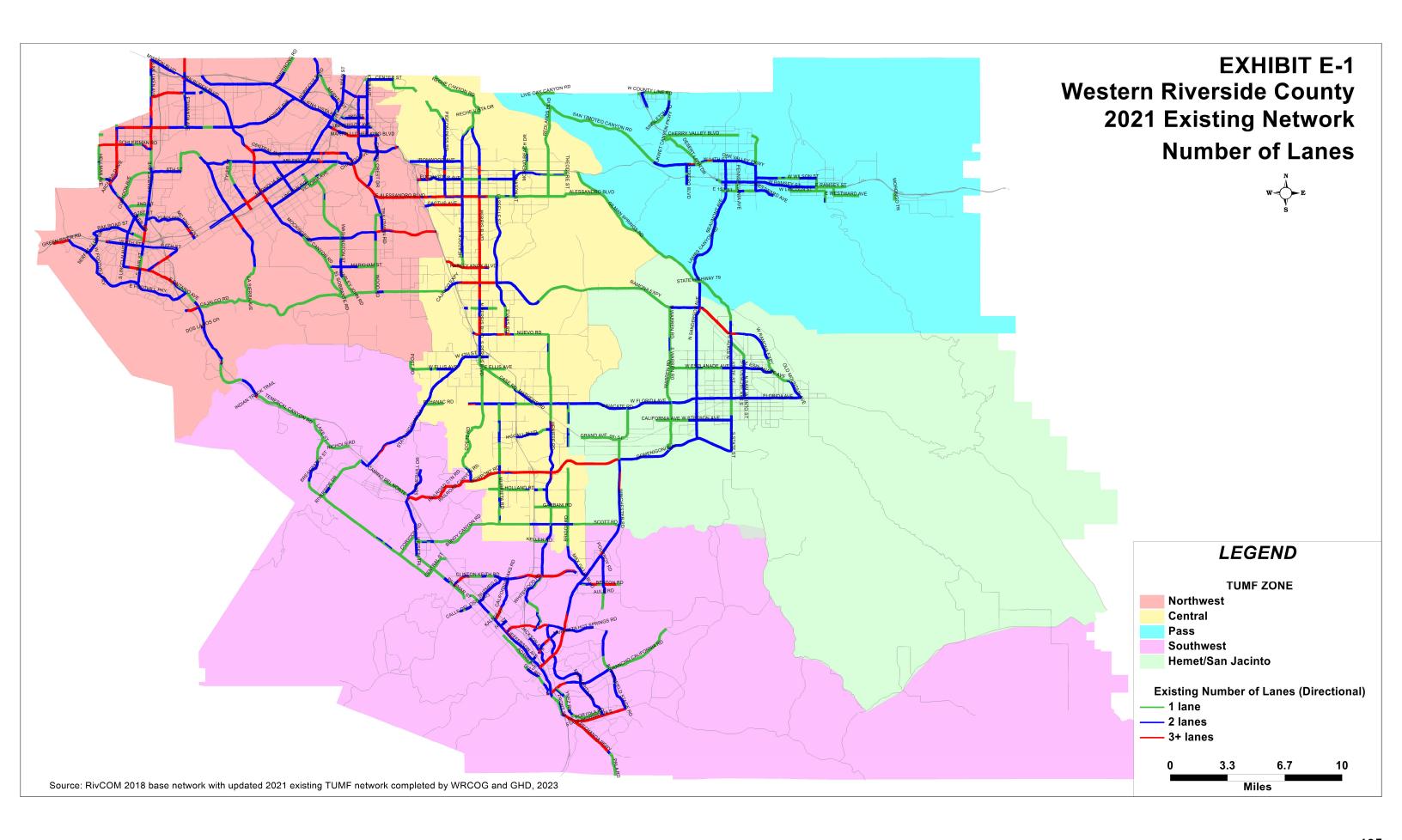
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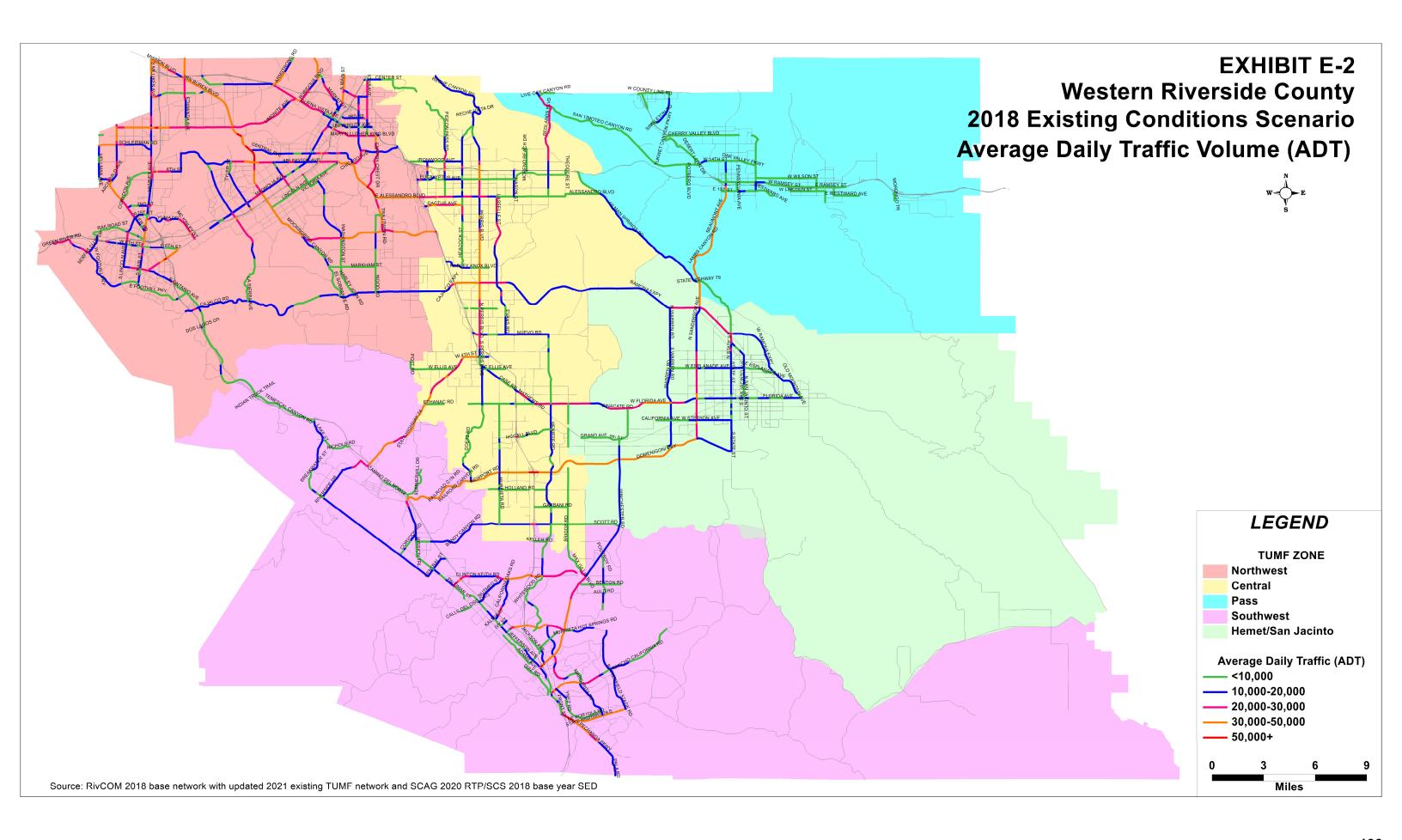
Plan Circulation Elements, primarily to confirm existing and future number of lanes and appropriateness of the facilities identified. The initial draft network was subsequently revised to consolidate appropriate General Plan Circulation Elements, including the identification of proposed new facilities as alternatives to existing facilities. It should be pointed out that the Regional System of Highways and Arterials does not represent a simple compilation of regional General Plan Circulation Elements, but rather incorporates the elements of regional General Plan Circulation Elements that are necessary for mitigating the cumulative regional traffic impacts of new development within the horizon year of the TUMF program.

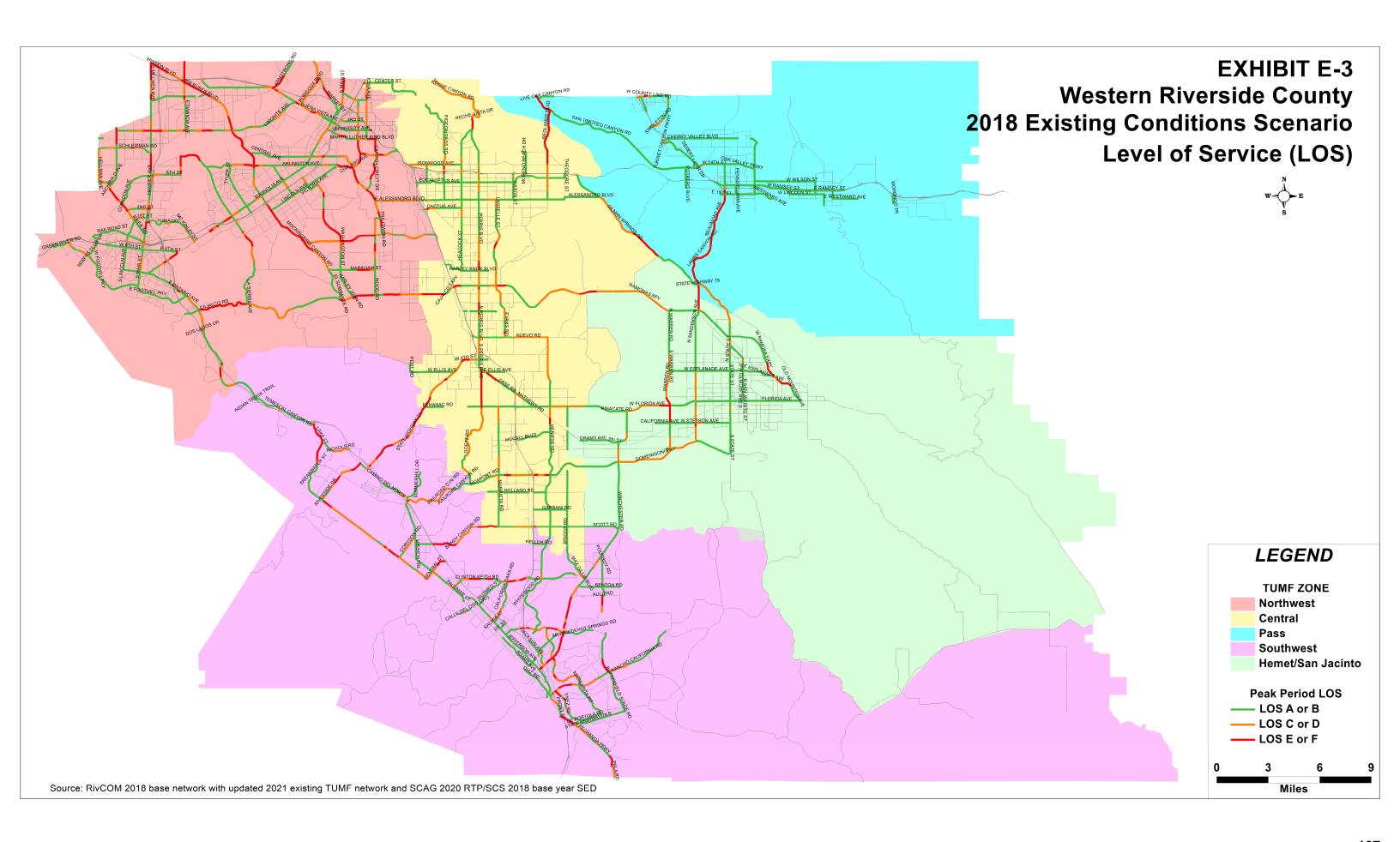
The consolidated list of proposed network improvements (along with associated initial cost estimates) was subsequently distributed to each of the WRCOG jurisdictions, individual landowners, and other stakeholders including representatives of the development community through the Building Industry Association (BIA) for review. The review of the consolidated list of improvements (and associated costs) prompted a series of five peer review workshop meetings to specifically review each segment of roadway identified and the associated improvements to mitigate the traffic impacts of new development. One peer review workshop meeting was held for each of the five zones in the WRCOG region with meetings held at the Riverside County Assessor's Office between June 27, 2002 and July 18, 2002. The peer review workshop meetings involved representatives from WRCOG, the respective zone jurisdictions and the BIA. The peer review workshops culminated in the development (by consensus of the groups) of a revised list of proposed network improvements (and associated costs) more accurately reflecting the improvements necessary to mitigate the cumulative regional traffic impacts of new development.

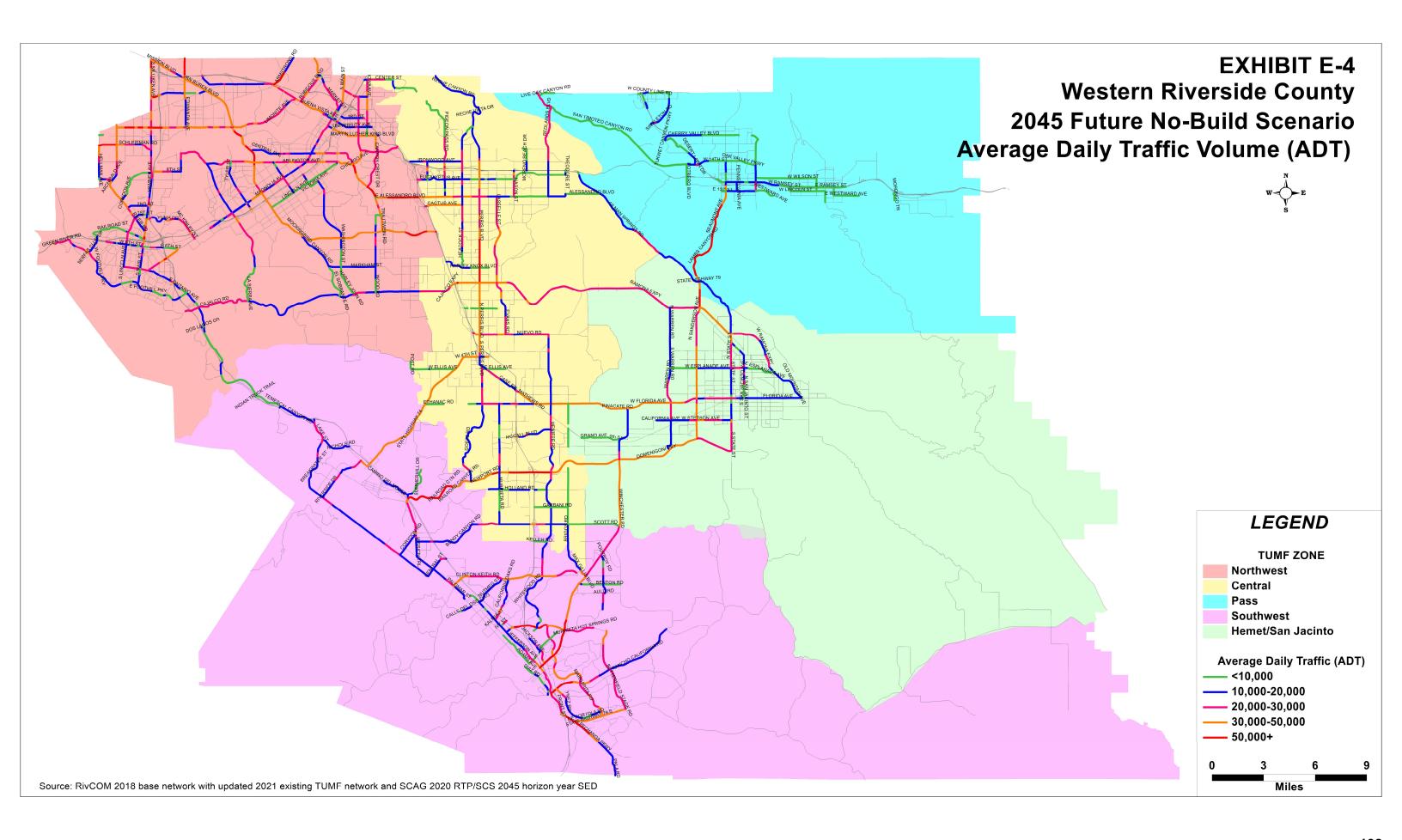
Following the peer review, the initial Regional System of Highways and Arterials was reviewed and endorsed by the TUMF Technical Advisory Committee, the TUMF Policy Committee and the WRCOG Executive Committee and utilized as the basis for developing the original TUMF Nexus Study in October 2002.

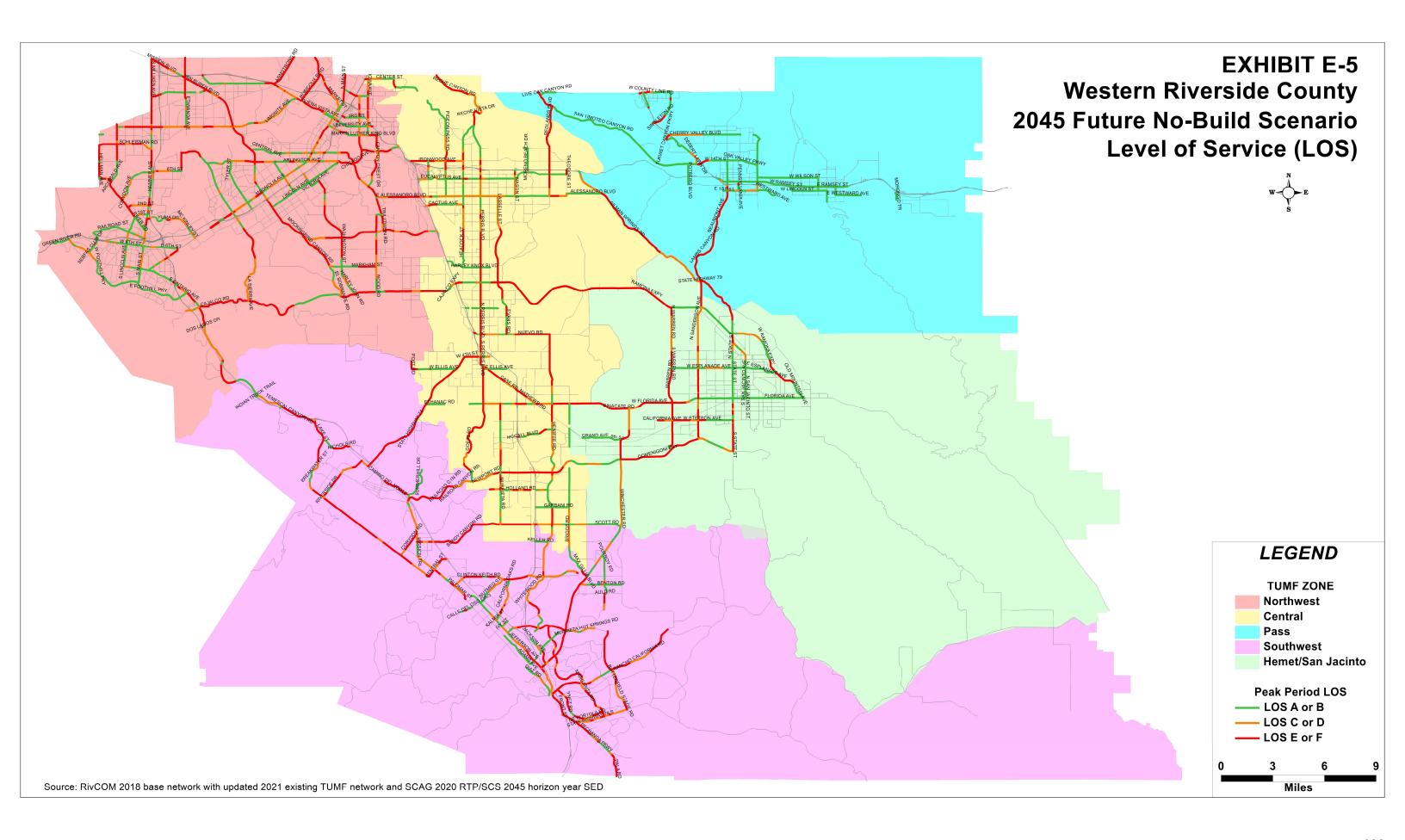
For the 2024 update of the TUMF Nexus Study, the Regional System of Highways and Arterials was reassessed. Consistent with the changing rate of new development forecast for Western Riverside County as part of the SCAG 2020 RTP/SCS, including reductions in the overall level of non-residential employment, the review of the TUMF Network as part of the 2024 Nexus Update ensured facilities generally still met the previously described performance guidelines, and/or that the scope and magnitude of specific improvements to the TUMF Network were roughly proportional to the impacts needing to be mitigated. This review process involved the comparison of model outputs for the 2018 Baseline and 2045 No-Build Scenarios on the 2021 Existing arterial network to identify those facilities no longer expected to be impacted substantially by the cumulative effects of traffic growth from new development. This review resulted in various changes in the scope and magnitude of specific improvements previously identified on the TUMF Network. The updated model output plots utilized as the basis for the latest network review are included in this appendix as **Exhibit E-1** through **E-8**. The Regional System of Highways and Arterials is included as Figure 4.1 in the Nexus Study report.

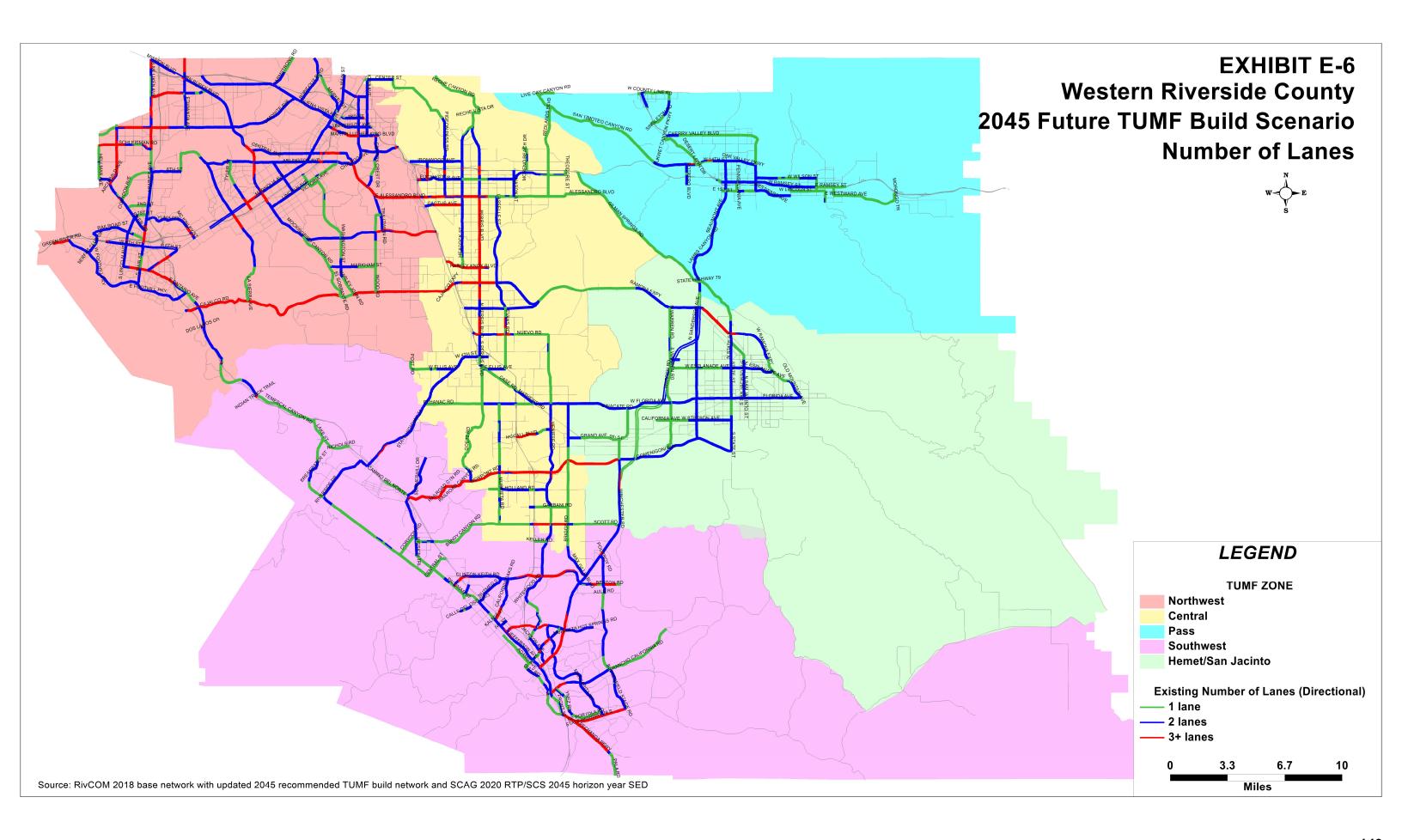


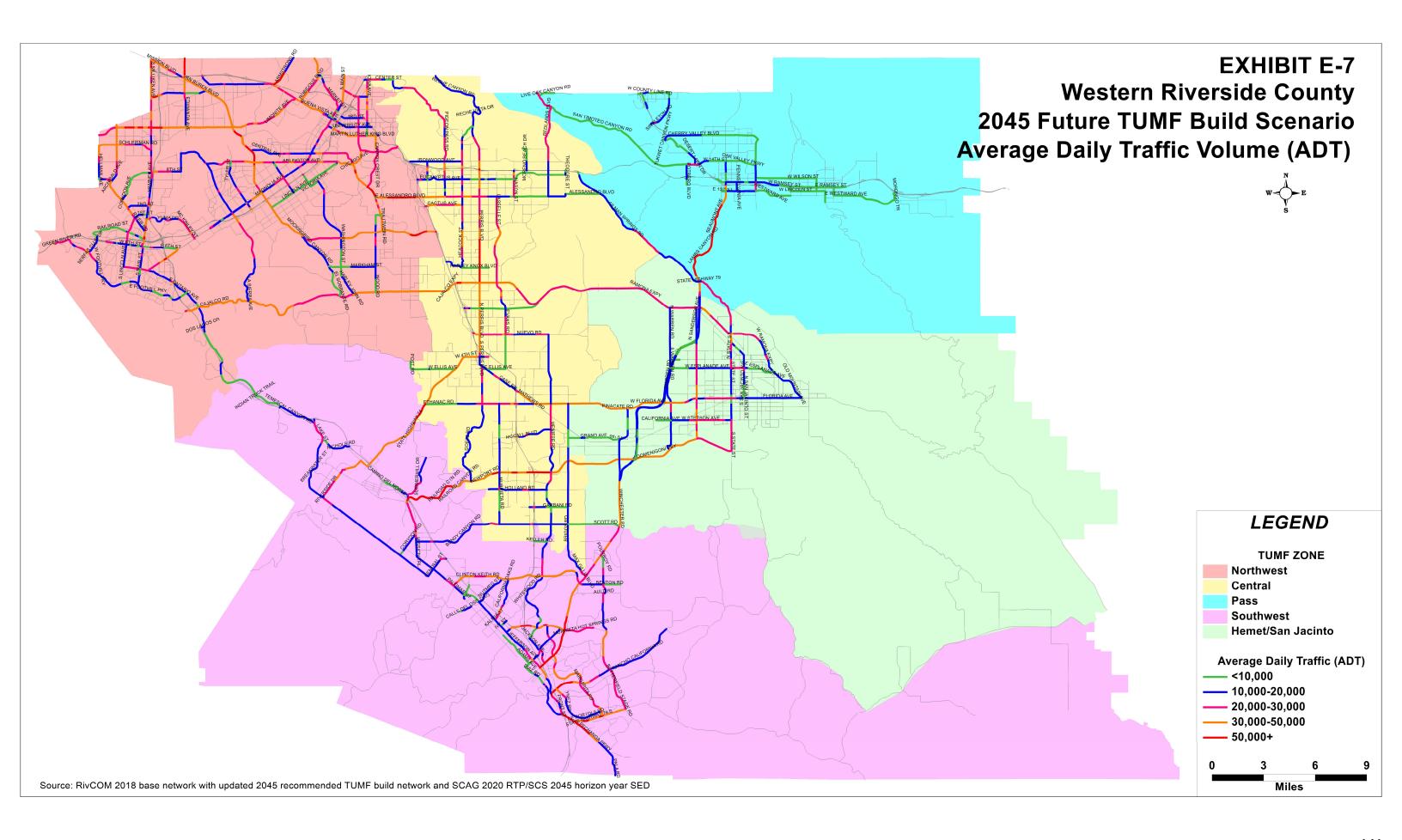


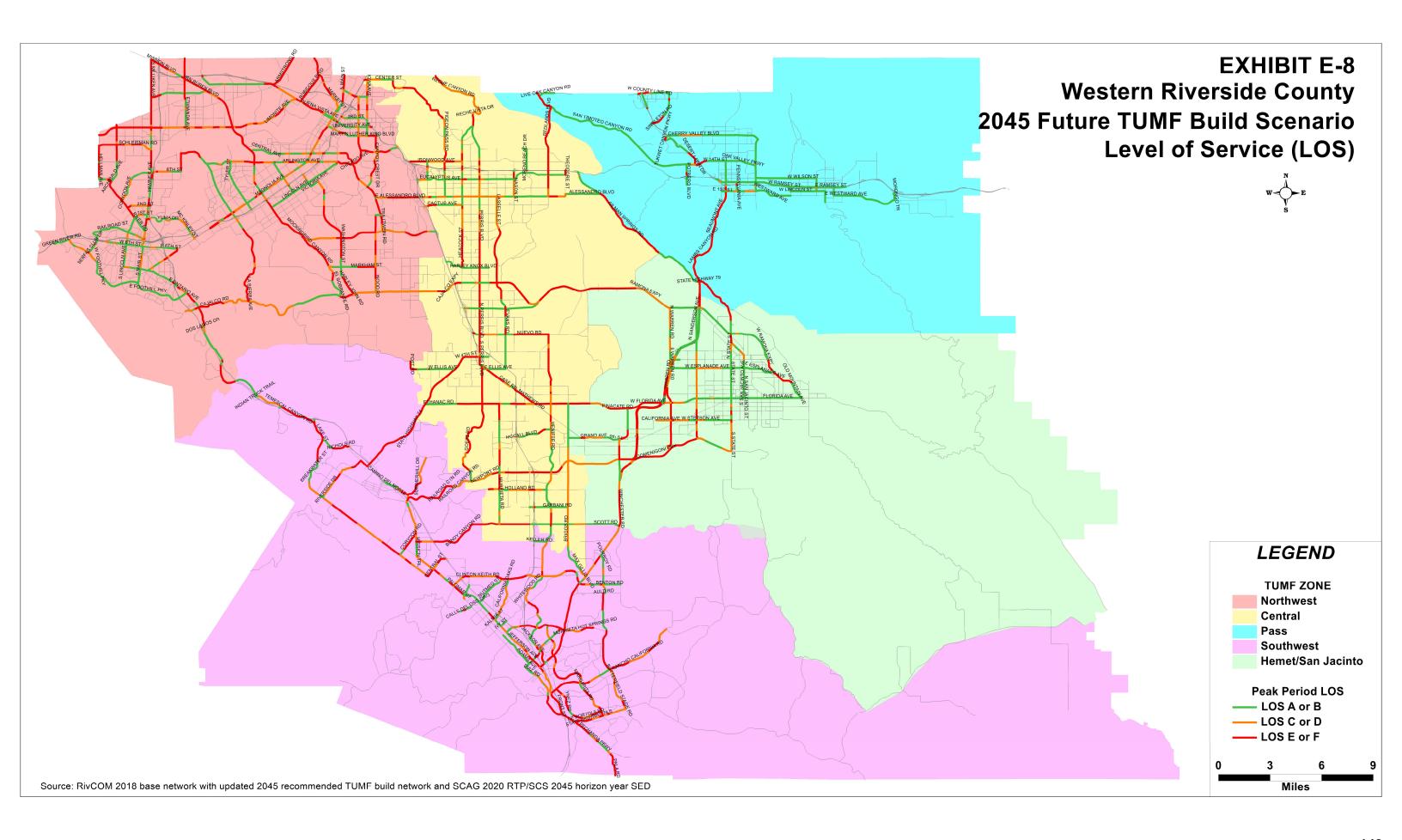












Appendix F - TUMF Network Cost Assumptions

The TUMF program was established as a uniform impact fee program that is applied to mitigate the cumulative transportation impacts of new development on the regional arterial highway system. In establishing the technical basis for TUMF, like any impact fee program, there are two fundamental requirements that must be addressed: establishing a rational nexus for the program; and determining that any fee is roughly proportional to the impact of a proposed development. These requirements are rooted in two well-known legal cases: Nollan v. California Coastal Commission (1987) 483 U.S. 825; and Dolan v. City of Tigard (1994) 512 U.S. 374.

To establish project costs that meet the rough proportionality test for an expansive network of facilities, WRCOG utilizes a conceptual planning level project and cost estimation approach based on typical unit costs for a variety of project types and conditions. These unit costs are intended to reflect a range of values that are typical for the types of projects that are necessary to mitigate the cumulative regional impacts of new development. These unit costs are developed for each typical project type based on actual observed values for the various materials, labor and right-of-way that would typically be required to complete a project. Although the actual materials, labor, right-of-way and associate costs to complete each specific project can be expected to vary based on the particular conditions of each site and project requirements at the time the project is actually implemented, the approach of using typical unit costs as the basis for the TUMF program represents a manageable and appropriate level of detail to establish conceptual project cost estimates that meet the requirement for rough proportionality.

The application of typical unit costs and the associated identification of a maximum TUMF share for each eligible project also provides a framework that protects the program from projects with actual costs that vary significantly from the typical cost estimates used as the program basis. The TUMF program administrative polices limit reimbursement of costs associated with eligible TUMF projects to the lesser of maximum TUMF share identified in the Nexus Study or the actual eligible project costs. In this manner, projects that are completed by participating jurisdictions or developers for less than the maximum TUMF share are reimbursed (or credited) for the actual amount expended, while projects that exceed the maximum TUMF share are only reimbursed (or credited) by the program up to the maximum TUMF share value ensuring that the program is mitigating impacts at a level that is roughly proportional to that typically expected, and is not subject to extreme project costs to address unusual or exceptional local conditions or requirements.

For the purposes of TUMF, unit cost values were developed for various eligible improvement types that all provide additional capacity needed to mitigate the cumulative regional traffic impacts of new development to facilities on the TUMF Network. Eligible improvement types include:

- 1. Construction of additional Network roadway lanes;
- 2. Construction of new Network roadway seaments:
- 3. Expansion of existing Network bridge structures;

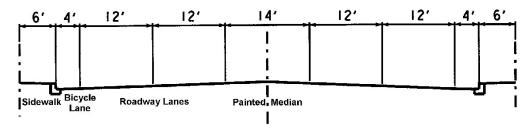
- 4. Construction of new Network bridge structures;
- 5. Expansion of existing Network interchanges with freeways;
- 6. Construction of new Network interchanges with freeways;
- 7. Grade separation of existing Network at-grade railroad crossings;
- 8. Expansion of existing Network-to-Network intersections;
- 9. Infrastructure for Intelligent Transportation Systems (ITS) of Network roadway segments.

Because roadway improvement standards vary considerably between respective jurisdictions, a typical roadway standard for the TUMF Network was recommended by the Public Works Committee (PWC) during the development of the original TUMF Nexus Study adopted by the WRCOG Executive Committee in October 2002 as the basis for developing the TUMF Network cost estimate. The typical roadway standard assumes the following design characteristics that are consistent with the minimum requirements of the Caltrans Highway Design Manual:

- Asphalt concrete pavement and appropriate base material to accomplish up to 12 feet per travel lane plus up to four feet for ancillary treatments (e.g. shoulders, or Class II Bike Lane);
- > Concrete curb and gutter and associated drainage (e.g. paved roadway shoulders and/or open swale);
- Storm drains located within curb to curb, and associated transverse portions perpendicular to the roadway and adjoining portions longitudinal to the roadway;
- > 14 foot paved and painted median (or dual center left turn lane);
- Traffic signals at intersections with state highways and other major arterials that are also on the TUMF Network;
- > Pavement striping and roadway signing, as required;
- ➤ 6 foot wide concrete sidewalks and associated curb cuts for ADA access at street crossings.

A cross-section of the Typical Roadway Standard is illustrated in Figure F-1.

Figure F-1. Typical Roadway Standard Cross-Section



It is recognized that the typical roadway standard is not appropriate in all potential TUMF Network locations. Where appropriate, typical design standards could be substituted with design elements such as open swale drainage and paved roadway shoulders with no curbing that would typically cost less than the implementation of the

Typical Roadway Standard. Roadway improvements in excess of the Typical Roadway Standard include, but are not limited to:

- Portland concrete cement pavement or other aesthetic pavement types (except at intersections);
- Major rehabilitation or overlay of existing pavement in adjacent roadway lanes;
- > Raised barrier medians;
- Parking lanes;
- Roadway tapers outside the extents of the approved project
- Sanitary sewage infrastructure;
- Water systems
- Dry utilities
- Undergrounding infrastructure
- Relocation of non-prior rights utilities
- Storm Drain Systems in excess of draining the roadway
- Landscaping;
- Streetlighting;
- Class I Bike Lanes (e.g. separate bicycle paths)
- > Environmental Permitting
- Detection/Retention Basins outside of Street Right-of-Way
- Agency Staff time in excess of 15% of Engineering
- Agency Staff Time in excess of 15% of Construction

These improvements in excess of Typical Roadway Standards are not eligible for TUMF funding and will be the responsibility of the local funding agency.

Unit cost estimates for the implementation of TUMF Network improvements were developed based on the unit cost to accomplish the Typical Roadway Standard. Initial unit cost estimates were developed as part of the original TUMF Nexus in 2002. These original values were adjusted as part of the 2005 Nexus Update to reflect changes in cost based on relevant indices. The unit cost estimates were fully revised as part of the 2009 Nexus Update to capture the full effects of the economic recession on the costs of labor, materials and property acquisition. For the previous 2016 Nexus Update, the unit costs were fully revised. The 2016 Nexus Update reflected the effects of the ongoing recovery from the economic recession that has saw the costs of materials, labor and land acquisition in California rebound from relative historical lows previously observed at the time of the 2009 Nexus Update.

For the 2024 Nexus Update, the unit costs were again fully revised to generate entirely new unit cost values based on the most recent available construction cost, labor cost and land acquisition cost values for comparable projects within and adjacent to Riverside County. The recalculation of the TUMF unit cost components was completed as part of the 2024 Nexus Update to account for the unprecedented materials cost increases, labor shortages and high rate of inflation generally attributable to a combination of the disruption to global supply chains caused by the COVID-19 pandemic and additional tariffs on a range of products imported into the United States. In December 2023, the unit cost values were validated utilizing Caltrans Contract Cost Data and the resultant unit costs are noted in **Exhibit F-2** and summarized in **Table 4.1**.

For simplicity, the roadway unit cost was assumed to provide for the full depth construction (including grading) of 16 feet of new pavement per lane (to accommodate a minimum 12 foot lane and ancillary treatments). The unit cost was assumed to include the following construction elements:

- Sawcut of existing pavement
- Removal of existing pavement
- > Roadway excavation and embankment
- > 10" thick class 2 aggregate base
- ➤ 4.0" thick asphaltic concrete surface
- Concrete curb, gutter and drainage improvements

Roadway unit costs were determined for each unique cost item. The source used to determine the roadway unit costs as part of the 2024 Nexus Update are listed below.

- Caltrans Contract Cost Data 2021-2022
- Projects within Riverside County and Adjacent Counties
- > Typical experience for local cities, Western Riverside County
- Michael Baker international (MBI), Structural Group
- MBI, ITS Group
- Caltrans Contract Cost Data 2022-2023

All data described above was initially obtained in October 2022 and refreshed and validated in December 2023.

Right-of-way acquisition costs were determined based on the cost to acquire 18 feet of right-of-way per lane of new roadway improvement. For urban and suburban land use areas, the amount of right-of-way to be acquired as part of the TUMF program was reduced by 75% to account for property already owned by a participating jurisdiction through prior acquisition or dedication. Right-of-way unit costs were assumed to include the following elements:

- Land acquisition
- Documentation and legal fees
- Relocation and demolition costs and condemnation compensation requirements
- Utility relocation
- > Direct environmental mitigation

Right-of-way unit costs were determined based on a review of actual property sales within the WRCOG region during the prior 18 month period. The task of determining the valuation per square foot of right-of-way for different land uses was completed by Epic Land Solutions, Inc.

A typical existing condition of each component type was used as a guideline for quantity assessments.

- ▶Terrain 1: Level terrain with 0% profile grade. Construction cost is per lane mile.
- >Terrain 2: Rolling Terrain with 1.5 % profile grade. Construction cost is per lane mile.

- ➤Terrain 3: Mountainous Terrain with 3% profile grade. Construction cost is per lane mile.
- Land Use 1, 2 and 3; ROW cost factor per lane mile, for Urban, Suburban and Rural areas respectively.
- ➤Interchange 1: Complex New Interchange/Interchange Modification. Existing complex interchange at I-15 & SR-91 was used as a guideline for quantity assessments.
- ➤Interchange 2: New Interchange/Interchange Modification is assumed to be a New Cloverleaf Interchange consisting of 4 (3 lane) direct ramps and 4 (2 lane) loop ramps.
- Interchange 3: Major Interchange Improvement is assumed to correspond to adding 1 lane to each ramp on a cloverleaf Interchange.
- ➤ Bridge: New Bridge cost. Construction cost is per linear foot per lane.
- >RRXing 1: New Rail Grade Crossing. Construction cost is per lane per crossing.
- ➤ RRXing 2: Widening Existing Grade Crossing. Construction cost is per lane per crossing.
- ▶ITS 1: Infrastructure for Intelligent Transportation Systems (ITS) on TUMF Network roadway segments per route mile

The cost estimating methodology here is intended to provide a Present Value Cost Estimate for the WRCOG Transportation Uniform Mitigation Fee based on year 2023 unit prices. A more detailed description of cost categories is detailed below.

I. Roadway Items

Roadway Excavation:

A unit cost of \$38.55 per cubic yard (Source: Local Projects and Caltrans Contract Cost Data) is applied to account for the excavation quantities. Assuming proposed profiles to be at 0% grade, the excavation values are estimated based on the component type as follows:

Terrain 2 and 3: excavation for one lane (16 feet wide and 4 feet deep) is assumed.

Imported Borrow:

The unit cost used for imported borrow is \$20.47 per cubic yard (Source: Local Projects and Caltrans Contract Cost Data). Locations where imported borrow is required are determined from aerial photos.

- > Terrain 2 and 3: Excavation for one lane (16 feet wide and 4 feet deep) is assumed.
- Interchanges 1, 2, and 3: Vertical clearance of 24.5 feet is used to calculate the maximum amount of imported borrow at areas adjacent to an undercrossing.
- RRXing 1 and 2: Vertical clearance of 31.5 feet and Bridge approach of 1,000 feet is used to determine the quantity of Imported borrow for this component type.

Clearing and Grubbing:

The unit cost for clearing and grubbing is \$12,100.00 per acre (Source: Local Projects and Caltrans Contract Cost Data).

- ➤ Terrain 1, 2 and 3: The area of clearing and grubbing is assumed to extend 16 feet for the addition of each new lane.
- ➤ Interchange 1 and 2: The area of clearing and grubbing is assumed to extend 40 feet beyond the proposed outside edge of shoulder. The clearing and grubbing width varies depending on the number of added lanes.
- Interchange 3 and Intersection: The area of clearing and grubbing is assumed to extend 16 feet for the addition of each lane.

Development of Water Supply:

A lump sum value is used to account for developing water supply. The lump sum cost is estimated as 10% of the combined cost for roadway excavation and imported borrow (Source: RCTC).

PCC Pavement:

The unit cost for PCC pavement is \$354.83 per cubic yard (Source: Local Projects and Caltrans Contract Cost Data).

➤ Terrain 1, 2 and 3: It is assumed that PCC is used at mainline shoulders. The PCC shoulder pavement is assumed to be 4 inch thick and 4 feet wide.

Asphalt Concrete Type A:

It is assumed that Asphalt Concrete is used at mainline and where ramp and bridge widening is required. A unit cost of \$240.62 per cubic yard (Source: Local Projects and Caltrans Contract Cost Data) is used to account for asphalt concrete quantities. The asphalt concrete overlay is assumed to be 4 inch thick.

Aggregate Base:

The unit cost for aggregate base is \$73.54 per cubic yard (Source: Local Projects and Caltrans Contract Cost Data). Aggregate base quantities are estimated by means of calculating the areas of additional lanes. The aggregate base layer is considered to be 10 inch thick. It is assumed that aggregate base is used over the entire widening width below the PCC pavement and asphalt concrete layers.

Curb and Gutter:

The unit cost used for curb and gutter is \$65.74 per linear foot (Source: Local Projects and Caltrans Contract Cost Data). It is assumed that type A2-6 curb and gutter is used on the entire length of travel way where required.

Project Drainage:

A lump sum value is used to account for project drainage cost of roadway construction. The project drainage cost is estimated as 15% (Source: RCTC project 2007) of combined cost for earthwork and pavement structural section.

Traffic Sianals:

The costs for traffic signals are calculated per ramp termini intersection. The unit cost used for traffic signals is \$531,086 (Source: Caltrans Contract Cost Data and typical experience, Western Riverside County) per intersection. Traffic signals costs are considered only at the Intersection (Network-to-Network) upgrade.

Striping:

The unit cost used for Striping is \$2.58 per linear foot (Source: Local Projects and Caltrans Contract Cost Data). It is assumed that two lines of thermo-plastic striping are required for every lane addition.

Marking:

The unit cost used for marking is \$7.31 per square foot (Source: Local Projects and Caltrans Contract Cost Data).

- ➤ Terrains 1, 2 and 3: It is assumed that there are 8 arrow markers, 2 Stop sign markers and 4 Bike sign markers.
- ➤ Interchanges 1, 2, and 3: It is assumed that there are 2 Type I arrows on each on ramp, and 2 Type IV (L) arrows on each off ramp.
- ➤ Intersection (network to network) upgrade: It is assumed that there are 2 right turn arrows and two right lane drop arrows for each lane modification for the interchange upgrade

Pavement Marker:

Type G one-way clear retroreflective pavement markers (Spacing @ 48 feet) were assumed for Terrain 1, 2 and 3 component types only. The unit cost used for pavement marker is \$5.06 each (Source: Local Projects and Caltrans Contract Cost Data).

Signage:

The signage unit cost accounts for the costs of one-post signs and two-post signs. The unit cost used for one-post signs and two-post signs are \$367.69 and \$1,211.58 each, respectively (Source: Local Projects and Caltrans Contract Cost Data). The post sign quantities assumed for each component type is summarized below.

Sign Type	Terrain 1, 2 & 3	Inte	erchar	Intersection		
Sign Type	Tellulli 1, 2 & 3	1	2	3	mersection	
One Post Signs	33	14	36	20	3	
Two Post Signs	-	4	4	4	0	

Intelligent Transportation Systems (ITS):

The unit cost used for ITS is \$686,338.50 per route mile (Source: Local Projects and MBI ITS Group). It is assumed that there is no existing ITS infrastructure (with the exception of isolated ITS devices) within the TUMF Network roadway segments and essential ITS infrastructure is furnished and installed. This essential ITS infrastructure includes ethernet switch, fiber jumper, fiber distribution unit, splice enclosure, pull box, new cabinet with foundation, 144 strand single-mode fiber optic (SMFO) cable and 3" conduits.

Minor Items, Roadway Mobilization, and Roadway Additions:

A lump sum value is used to account for minor items, roadway mobilization and roadway additions as described below. These lump sum values are recommended based on provisions in Project Development Procedure Manual (PDPM) and the

date from individual sources presented in the introduction of this report (Source: RCTC)

Items	Unit Cost
Minor Items	10% of earthwork, pavement structure, drainage,
	specialty items and traffic items.
Roadway	10% of earthwork, pavement structure, drainage,
Mobilization	specialty items, traffic items and minor items.
Roadway Additions	10% of earthwork, pavement structure, drainage,
	specialty items, traffic items and minor items.

II. Structure Items

New Bridge:

New interchanges account for construction of a new bridge. The unit cost for a new travel way bridge construction and RRXings1 and 2 (New and Widening of Rail Grade Crossings) is \$400.00 per square foot (Source: MBI Structural group). The width of a new bridge is assumed to be 82 feet (4 lanes x 12ft + 10ft shoulder x 2 + 14ft median).

Bridge Widening:

Bridge widenings account for the widening of existing bridges. The unit cost is \$500.00 per square foot (Source: MBI Structural group). The width of a bridge widening is assumed to be: 2 lanes x 12ft + 10ft shoulder. The width of an arterial crossing over rail road is assumed to be 16 feet (1 lane x 12ft + 4ft shoulder).

Structural Mobilization:

The cost for structural mobilization is estimated as 10% of total structure item cost (Source: Typical experience).

III. Right of Way Items

The right of way unit cost varies with land use designation. The unit cost for ROW was developed by Epic Land Solutions, Inc. based on a review of actual property sales within the WRCOG region during the prior 18 month period. The area of right of way acquisition for the travel way is calculated per additional lane mile, assuming the width of the right-of-way required to be 18 feet per lane (to accommodate a 12 foot roadway lane, shoulders and ancillary amenities, like storm water drainage). The right of way acquisition for RRXings1 and 2 is calculated based on ROW acquisition for bridge approaches.

Property costs per square foot are derived by reviewing a large sample of recently sold land and improved properties within the greater Riverside area. The properties reviewed are identified specifically from completed semi large to very large infrastructure projects and upcoming projects with preferred alternatives and/or approved environmental reports. For the purposes of the 2022 Nexus Study update, an overall sample of approximately 2,700 properties was used.

The properties were designated as: urban areas (generally considered downtown, or very close to downtown in the larger cities - predominantly Corona and Riverside, with a few parcels in Temecula and Moreno Valley); suburban (primarily considered the greater areas of Hemet, Perris, San Jacinto, Moreno Valley, Lake Elsinore, outer portions of Riverside / Corona, Temecula, Murrieta, Calimesa, Eastvale, Norco, and other cities of relative size and location as those previously mentioned); and rural (considered the exurban areas between Corona / Lake Elsinore and Perris along the SR-74/79, Lake Matthews, between Wildomar and Murrieta, Temecula and Perris and other similar areas) to correspond with the land use classifications used for cost estimating purposes in the TUMF program. The properties were also determined to be partial or full property takes to determine the relative percentage of each in order to appropriately weight the average cost per square foot of each type of property. Specialty cost percentages as a share of total acquisition costs (i.e. relocation and demolition) were also derived from actual costs based on a sample of the Inland Empire projects that Epic Land Solutions, Inc. was directly involved in and therefore able to obtain reliable data.

The result is an estimated average cost per square foot for ROW acquisition by land use classification which is then multiplied by the number of square feet per lane mile to obtain the required ROW to accomplish the TUMF typical cross section. The ROW requirement is then reduced by a factor of 75% for urban and suburban areas based on the collective recommendation of the PWC during the development of the initial program cost estimation methodology to reflect the assumption that a majority of the proposed TUMF facilities in these areas already exist and/or have a substantial portion of the necessary right-of-way already owned by or dedicated to the responsible jurisdiction. As a result, the TUMF program only includes the estimated cost for 25% of the right-of-way that could potentially be required to accomplish the TUMF cross sections for the conceptual improvement projects identified as part of the program in urban and suburban areas.

Maintenance of Traffic:

A lump sum value is used to account for maintenance of traffic cost of roadway construction. The project maintenance of traffic cost is estimated as 5% (Source: RCTC) of the total project cost.

The consolidated unit cost values include typical per mile or lump sum costs for each of the eligible improvement element. These elements include new roadways, bridge improvements, interchange improvements and railroad grade separation construction costs, and right of way acquisition.

The consolidated unit costs as developed for the 2024 Nexus Update are summarized in **Exhibit F-1**. **Exhibit F-2** provides a summary of the unit costs for the various roadway and structures construction elements defined. **Exhibit F-3** provides a summary of the unit costs for the various right of way categories. **Exhibit F-4** provides worksheets showing the detailed unit cost calculation for each TUMF unit cost category related to roadway and structures construction, and right of way acquisition.

The unit cost assumptions were subsequently applied to the TUMF Network improvements identified to mitigate the cumulative regional transportation impacts of future new development. The resultant cost value was tabulated for each unique segment of the network, by improvement type. A separate cost estimate was generated for regional transit improvements based on information provided by RTA and added to the TUMF Network Cost Estimate table.

Supplemental categories have been added to the cost assumptions to better delineate the costs associated with planning and engineering a project, accommodating contingencies, mitigating the cumulate multi-species habitat impacts of TUMF arterial highway improvements in accordance with the adopted Riverside County Multi-Species Habitat Conservation Plan (MSHCP), and administering the TUMF program.

Soft Costs

The TUMF program provides for planning, engineering and contingency costs (collectively referred to as soft costs) for eligible projects to be reimbursed through the program. As indicated in **Table 4.1**, planning costs are considered to include those costs associated with planning, preliminary engineering and environmental assessment of the proposed project, with the eligible amount being 10% of the estimated TUMF eligible construction cost only. Engineering costs are considered to include project study report, design, permitting and construction oversight costs based on 25% of the estimated eligible construction cost only. Contingency is provided based on 10% of the total estimated eligible facility cost.

Soft costs include all reasonable required planning, environmental clearance and mitigation, right-of-way documentation, engineering design, plan, specification and estimate preparation and construction management and oversight costs necessary to accomplish the project. The estimated soft cost factors for planning, engineering and contingency were initially established in 2002 by the WRCOG Public Works Committee, which was responsible for the development of the initial TUMF Nexus Study. The percentage multipliers were established by consensus of the PWC based on the collective experience of members in delivering similar public highway projects. A review of various data sources indicates the cost factors are generally consistent with industry guidance for conceptual cost estimation purposes. The City of Los Angeles, Department of Public Works, Bureau of Engineering California Multi-Agency CIP Benchmarking Study (December 2016) indicates that combined design and construction management costs for roadway projects represent, on average, 50% of the total cost of construction¹⁴. Similarly, the American Association of State Highway and Transportation Officials (AASHTO) Practical Guide for Estimating (December 2011) also cites the following average multipliers for a range of planning and engineering activities based on national research as a basis for conceptual cost estimation:

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¹⁴ City of Los Angeles, Department of Public Works, Bureau of Engineering California Multi-Agency CIP Benchmarking Study (December 2016), Table 3-6 Average Project Delivery Costs by Project Type (% of TCC) (Full Range of TCC).

- Preliminary Engineering Costs (including survey/data collection, design, environmental, utilities and contract administration) – 10% to 25% of total construction cost¹⁵
- Construction Engineering 10% to 26% of total construction costs¹⁶

Furthermore, the contingency rate utilized in the TUMF program is significantly less than the industry norm for conceptual cost estimation purposes. Specifically, Caltrans *Project Development Procedures Manual* (July 2021) advocates for contingency rates of 30% to 50% of total costs to be used at the project feasibility (conceptual planning) phase of project development¹⁷, with contingency rates reduced to 10% for preliminary engineers cost estimates completed during project design¹⁸.

MSHCP

Section 8.5.1 of the Riverside County Integrated Project (RCIP) <u>Multiple Species Habitat Conservation Plan</u> (MSHCP) adopted by the Riverside County Board of Supervisors on June 17, 2003, states that "each new transportation project will contribute to Plan implementation. Historically, these projects have budgeted 3% - 5% of their construction costs to mitigate environmental impacts." This provision is reiterated in the <u>Western Riverside County Multiple Species Habitat Conservation Plan Nexus Fee Study Update Final Report</u> (Economic & Planning Systems, Inc., October 2020) section "6. RCA Non-Fee Revenues" which states "The MSHCP forecast an array of revenue sources, in addition to fee revenue, supporting the conservation program. These sources were anticipated to total about 44 percent of the revenue for the program, including:

• Transportation funding – includes the Measure A sales tax which is authorized through 2039 and other transportation funding sources such as the Transportation Uniform Mitigation Fees (TUMF) charged on new development." Table 23 Annual Non-Fee Revenue Projection in this section indicates that an average of \$950,000 in MSHCP revenue was derived annually from TUMF during the three years from FY16/17- 18/19 reflecting a TUMF contribution at 5% of construction costs consistent with the MSHCP as adopted in 2003. To clearly demonstrate compliance with the provisions of the MSHCP, the TUMF program will continue to incorporate a cost element to account for the required MSHCP contribution to mitigate the multi-species habitat impacts of constructing TUMF projects.

¹⁵ AASHTO Technical Committee on Cost Estimating (TCCE) AASHTO Practical Guide for Estimating (December 2011), Table 2.4. Preliminary Engineering Costs' Average Percentage Ranges (% of Construction).

¹⁶ AASHTO Technical Committee on Cost Estimating (TCCE) AASHTO Practical Guide for Estimating (December 2011), Section 2.2.3.2.3 Construction Engineering, "highway improvement projects in an urban environment".

 ¹⁷ California Department of Transportation (Caltrans) Division of Design *Project Development Procedures Manual* (July 2021), Chapter 20 – Project Development Cost Estimates, Section 2 – Project Planning Cost Estimates, Article 2 Project Feasibility Cost Estimate, Contingencies.
 ¹⁸ California Department of Transportation (Caltrans) Division of Design *Project Development Procedures Manual* (July 2021), Chapter 20 – Project Development Cost Estimates, Section 3 – Project Design Cost Estimates, Article 4 Preliminary Engineer's Cost Estimate, Contingencies.

An amount equal to 5% of the construction cost for new TUMF network lanes, bridges and railroad grade separations will continue to be specifically included as part of TUMF program with revenues to be provided to the Western Riverside County Regional Conservation Authority (RCA) for the acquisition of land identified in the MSHCP. The relevant sections of the MSHCP document and the 2020 MSHCP Nexus Report are included in this Appendix as **Exhibits F-5** and **F-6**, respectively.

Similarly, an amount of 4% of the total TUMF eligible network cost is included as part of the TUMF program with revenues to be utilized by WRCOG to cover the direct costs to administer the program. The costs incurred by WRCOG include direct salary, fringe benefit and overhead costs for WRCOG staff assigned to administer the program and support participating jurisdictions, and costs for consultant, legal and auditing services to support the implementation of the TUMF program.

Table 4.1 summarizes the unit cost estimate assumptions used to develop the TUMF network cost estimate, including a comparison of the original TUMF unit cost assumptions and the current revised unit cost assumptions developed as part of the 2009 Update of the TUMF Nexus Study. Cost estimates are provided in year of original values as indicated.

EXHIBIT F-5

Riverside County Integrated Project (RCIP) Multiple Species Habitat Conservation Plan (MSHCP) adopted by the Riverside County Board of Supervisors on June 17, 2003

Section 8.0 MSHCP Funding/Financing of Reserve Assembly and Management



8.5 LOCAL FUNDING PROGRAM

The following local funding plan describes the local commitment for funding Reserve Assembly, Management, and Monitoring.

The local funding program includes funding from a variety of sources, including but not limited to, regional funding resulting from the importation of waste into landfills in Riverside County, mitigation for regional public infrastructure projects, mitigation for private infrastructure projects, mitigation for private Development, funds generated by local or regional incentive programs that encourage compact growth and the creation of transit-oriented communities, and dedications of lands in conjunction with local approval of private development projects.

The local funding program will fund the local portion of:

- Land acquisition
- Management
- Monitoring
- Adaptive Management
- Plan administration

8.5.1 Funding Sources

Local funding sources include funding from both public and private developers and regional entities in an effort to spread the financial burden of the MSHCP over a broad base. The mix of funding sources provides an equitable distribution of the cost for local mitigation under the MSHCP. In addition to equitably distributing mitigation for local projects, utilizing a mixture of funding sources will help ensure the long-term viability of the local funding program because a temporary decline in funding from one source may be offset by increases from another. The proposed local funding sources are described below and include:

- Local Development Mitigation Fees
- Density Bonus Fees
- Regional Infrastructure Project Contribution
- Landfill Tipping Fees

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• Other Potential New Revenue Sources

Local Development Mitigation Fees

New Development affects the environment directly through construction activity and cumulatively through population bases that result from Development. Government Code Section 66000 et seq. allows cities and counties to charge new Development for the costs of mitigating the impacts of new Development. The Cities and County will implement a Development Mitigation Fee pursuant to the MSHCP; this fee will be one of the primary sources of funding the implementation of the MSHCP. The fee ordinance adopted by the Cities and the County will provide for an annual CPI adjustment based upon the Consumer Price Index for "All Urban Consumers" in the Los Angeles-Anaheim-Riverside Area, measured as of the month of December in the calendar year which ends in the previous Fiscal Year. There will also be a provision for the fee to be reevaluated and revised should it be found to insufficiently cover mitigation of new Development. A fee of approximately \$1,500 per residential unit (or an equivalent fee per acre) and \$4,800 per acre of commercial or industrial Development was used in the revenue projection shown in *Appendix B-05* of this document. The projected revenues from the Development Mitigation Fee are anticipated to be approximately \$540 million over the next 25 years. A nexus study is required to demonstrate that the proposed fee is proportionate to the impacts of the new Development.

Density Bonus Fees

The New Riverside County General Plan creates a number of incentive plans that have the potential both to further the goals of the County's General Plan and to facilitate the implementation of the MSHCP. Section 8.4.2 above discusses the use of the Rural Incentive Program to aid in the Conservation of lands through non-acquisition means. An additional component of the Incentive Program enables developers to acquire the right to develop at an additional 25% increase in density by providing enhancements to their projects and by paying a "Density Bonus Fee." The fee is anticipated to be \$3,000 - \$5,000 per additional unit. This program offers a significant incentive to developers when compared with the typical cost of creating a new buildable lot.

The Density Bonus program is new to Riverside County, and it is, therefore, difficult to project annual revenues. The Local Funding Program assumes that between 10% and 20% of the residential units built in the unincorporated County area will participate in the incentive program and that only 50% of the revenues of the program will be committed to the MSHCP, with the remaining portion staying in the local community in which the additional units are located to provide additional

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amenities that will help offset the greater density. Of the 330,000 units projected to be built over the next 25 years, 10% (or 33,000 units) are assumed to be built utilizing the Density Bonus Fee resulting in \$132,000,000 in revenues of which 50% (or \$66,000,000) will be allocated to the MSHCP.

Regional Infrastructure Project Contribution

Regional infrastructure projects directly affect the environment not only through the effect they have on species and their Habitats, but also by facilitating continued new Development. It is appropriate, therefore, for regional infrastructure projects to contribute to Plan implementation . Four general categories of infrastructure projects have been identified:

- Transportation Infrastructure
- Regional Utility Projects
- Local Public Capital Construction Projects
- Regional Flood Control Projects

Transportation Infrastructure

The RCIP has identified the need for approximately \$12 billion in new transportation infrastructure to support the Development proposed for the next 25 years. Each new transportation project will contribute to Plan implementation . Historically, these projects have budgeted 3%-5% of their construction costs to mitigate environmental impacts. The local funding program anticipates that more than one-half of the \$12 billion cost of contribution to acquisition of Additional Reserve Lands will be funded locally and will result in approximately \$371 million in contribution over the next 25 years as discussed below.

► Riverside County's ½ cent sales tax for Transportation

In 1988, Riverside County voters approved a measure to increase local sales tax by ½ cent to fund new transportation projects (Measure A). The sales tax measure is due to be reauthorized in 2002. Under the reauthorization, \$121 million will be allocated as local contribution under the MSHCP. (For further information on the sales tax measure, see *Section 13.5* of the MSHCP Implementing Agreement and *Appendix B-07* of this document).

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Regional Utility Projects

As Riverside County's population doubles over the next 25 years, new regional utility infrastructure will be required. Since the utilities are not Permittees under the MSHCP, they may choose to mitigate under the Plan or seek their own regulatory permits. In either case, their mitigation will be focused on the objectives of the MSHCP and will contribute to the local implementation funding. No estimate of the number of projects or the scope or costs is available at this time; consequently, no estimate of mitigation funding has been made. The Permittees expect that regional utility projects will contribute to the implementation of the MSHCP and provide an additional contingency should other revenue sources not generate the projected levels of funding or should implementation costs be higher than projected.

Local Public Capital Construction Projects

Local public capital construction projects may include construction of new schools, universities, City or County administrative facilities, jails, courts, juvenile facilities, parks, libraries, or other facilities that serve the public. These projects will be mitigated under the MSHCP and will utilize a per acre mitigation fee based on the fee then in place for private, commercial and industrial Development. No attempt has been made to estimate the number or magnitude of these projects. The Permittees expect that local public construction projects will contribute to the implementation of the MSHCP and provide an additional contingency should other revenue sources not generate the projected levels of funding or should implementation costs be higher than projected.

Regional Flood Control Projects

Flood control projects will receive coverage under the MSHCP for both new capital construction and for the maintenance of existing and new facilities. Preliminary estimates from the Riverside County Flood Control and Water Conservation District indicate that they will likely budget approximately \$15 M in projects annually. Based on using 3% of capital costs, the District would be expected to contribute approximately \$450,000 to \$750,000 annually to MSHCP implementation. Since many flood control projects serve existing developed communities and therefore have less impacts than projects adding capacity to serve new Development and may provide some conservation value especially in terms of Constrained Linkages, the District's contributions may average something below the 5% level on average.

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Landfill Tipping Fees

Riverside County has utilized revenues from public and private landfills in Riverside County to generate funding for conservation and open space projects for over a decade. In 1990, the County utilized \$1 per ton tipping fee assessed all waste deposited in County landfills to fund the acquisition of the Santa Rosa Plateau and approximately \$260,000 annually to fund the operation of the County Park and Open Space Districts. More recently, the County has negotiated agreements with two private landfills in the County to commit \$1 per ton on all waste imported from outside Riverside County to Conservation within Riverside County.

El Sobrante Landfill

This privately owned landfill was permitted to expand its capacity to 10,000 tons per day in 2001. In approving the landfill expansion, the Riverside County Board of Supervisors authorized fifty cents per ton of the County's portion of the revenue from the landfill expansion to be applied to Conservation in addition to the \$1 per ton that was committed under the landfill agreement. The projection of the annual tonnage and revenue for Conservation included in *Appendix B-09* of this document reflects the \$1.5 per ton commitment to Conservation. Over the life of the landfill, 60 million tons of imported waste are allowed. Sixty million tons at \$1.5 per ton will generate \$90 million for Conservation. The Cash Flow Analysis in *Appendix B-10* of this document reflects the annual revenues from the El Sobrante Landfill.

County Landfills

The County Board of Supervisors, beginning in 1990, authorized \$1 per ton for all in-county waste deposited in County landfills to go toward habitat and open space Conservation. After adjusting for the debt service on the Santa Rosa Plateau acquisition and an annual commitment to the Park and Open Space District, there is a projected annual balance of \$400,000 that can be applied to additional Conservation under the MSHCP. *Appendix B-09* of this document includes a projection of tonnage from in-County waste at County landfills. The Cash Flow Analysis in *Appendix B-10* of this document reflects the annual revenues from the County landfills. Over the next 25 years, County landfills will contribute approximately \$10 million to the implementation of the MSHCP.

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Eagle Mountain

In 1997, the County approved the use of the old Kaiser mine at Eagle Mountain in eastern Riverside County as a regional landfill to serve primarily Los Angeles County. Subsequently, the Los Angeles County Sanitation District has acquired the rights to the Eagle Mountain Landfill and intends to begin operation of the landfill within the next decade. At this time, litigation is still pending that could prohibit the development of the landfill. The Development Agreement with the County would require the payment of \$1 per ton for Conservation if the landfill is developed. Conservation needs in the Coachella Valley would have first priority over the revenues from the Eagle Mountain Landfill; however, some portion of the revenues would be available to support Conservation needs in Western Riverside County. The Permittees expect that the Eagle Mountain Landfill will provide funding to support implementation of the MSHCP over the life of the MSHCP. However, no revenue from the Eagle Mountain Landfill has been projected in the funding program at this time. These potential revenues provide a contingency should other revenue sources not generate the projected levels of funding or should implementation costs be higher than projected.

Potential New Revenue Sources

The County and Cities may levy assessments to pay for services that directly benefit the property on which the fee is levied. Under current law, a local election may be required to initially levy the assessment or to confirm the assessment if a protest is filed. No such assessments are currently projected for the MSHCP. As the MSHCP Conservation Area is developed, however, its value as open space and for recreation opportunities may lend itself to a local funding program for ongoing management and enhancement. In more urban areas, which Western Riverside County will be in 25 years, local voters routinely approve such funding programs.

Other revenue opportunities may be realized over the next 25 years. The County, Cities, and RCA will explore new revenue sources to support the acquisition of the MSHCP Conservation Area and its long-term management and enhancement. A goal of any new fee would be to spread a portion of the costs for the MSHCP across as broad a regional base as possible.

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TABLE 8-5
LOCAL PUBLIC/REGIONAL FUNDING SOURCES

Source Anticipated	\$ Range	Requirements to Implement	Responsible Party
Private Funding Sources:			
Cities and County Development Mitigation Fees	\$539.6M	Approval of County Ordinance Approval of City(ies) Ordinance	County Cities
Density Bonus Fees	\$66M	Approval of General Plan	County
Public Funding Sources			
Local Roads	\$121M	Approval of Measure A, local agreement on allocation	RCTC/County
Other Transportation	\$250M	% of new road construction	RCTC/County
Other infrastructure Projects	\$unknown	Project-by-project negotiation	County and Cities
El Sobrante Landfill	\$90M	In place	County
County Landfills	\$10M	In place	County
Eagle Mountain Landfill	\$unknown	In place pending start-up	County
New Regional funding	\$unknown	Voter approval	County and Cities
TOTAL LOCAL FUNDO	64 070 088		

TOTAL LOCAL FUNDS \$1,076.6M

8.6 ADEQUACY OF FUNDING

The Permittees and the Wildlife Agencies will annually evaluate the performance of the funding mechanisms and, notwithstanding other provisions of the MSHCP, will develop any necessary modifications to the funding mechanisms to address additional funding needs. Additionally, this annual evaluation will include an assessment of the funding plan and anticipate funding needs over the ensuing 18 months for the purpose of identifying any potential deficiencies in cash flow. If deficiencies are identified through this evaluation, then the Permittees and the Wildlife Agencies will develop strategies to address any additional funding needs consistent with the terms and conditions of the MSHCP.

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EXHIBIT F-6

Western Riverside County Multiple Species Habitat Conservation Plan Nexus Fee Study Update Final Report Economic & Planning Systems, Inc., October 2020

Final Report

Western Riverside County Multiple Species Habitat Conservation Plan Nexus Fee Study Update

Prepared for:

Western Riverside County Regional Conservation Authority

Prepared by:

Economic & Planning Systems, Inc.

October 2020

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The Economics of Land Use

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1. Introduction and Key Findings

This Updated Nexus Study (2020 Nexus Study) provides the technical justification for changes to the Local Development Mitigation Fee schedule that applies to Local Permittee participants in the Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP or Plan). These changes are necessary to ensure adequate funding of the obligations of the Local Permittees under the MSHCP and the associated Incidental Take Permit and Implementing Agreement. The resulting increased fee revenues will support the continued implementation of the MSHCP and the streamlining of endangered species incidental take permitting for new Western Riverside County development provided under the MSHCP. This Nexus Study is consistent with the requirements of California Government Code 66000 et seq. (the Mitigation Fee Act) that requires specific findings (as well as administration and implementation procedures) for "any action establishing, increasing, or imposing a fee as a condition of approval of a development project by a local agency."

Background

The Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP or Plan), originally adopted in 2004, is a comprehensive, multi-jurisdictional Habitat Conservation Plan (HCP) focusing on the conservation of species and their associated habitats in Western Riverside County. The MSHCP was developed in response to the need for future growth opportunities in Western Riverside County while addressing the requirements of the State and federal Endangered Species Acts. The MSHCP serves as an HCP pursuant to Section 10(a)(1)(B) of the federal Endangered Species Act of 1973 as well as a Natural Communities Conservation Plan under the NCCP Act of 2001. The MSHCP streamlines these environmental permitting processes by allowing the participating jurisdictions to authorize "take" of plant and wildlife species identified within the Plan Area. At the same time, Plan implementation provides a coordinated MSHCP Conservation Area and implementation program to preserve biological diversity and maintain the region's quality of life.

The MSHCP and the associated Implementing Agreement and Incidental Take Permit collectively determine a set of conservation actions that must be taken to meet the terms of the Incidental Take Permit and benefit from the regulatory streamlining and other benefits of the MSHCP. This includes the identification of the responsible parties, including the responsibilities of the Local Permittees. One of the key requirements of the MSHCP, Implementing Agreement, and Incidental Take Permit (consistent with the requirements of the federal Endangered Species Act) is the provision of adequate funding by Local Permittees to the Implementing Entity (the Western Riverside County Regional Conservation Authority²) to conduct their portion of the conservation actions identified in the MSHCP.

¹ Local Permittees include the Western Riverside cities, the County of Riverside, County Flood Control and Water Conservation District, County Regional Park and Open-Space District, County Department of Waste Resources, and Riverside County Transportation Commission.

² The Western Riverside County Regional Conservation Agency is a Joint Powers Authority established in 2004 to implement the MSHCP.

Section 8.0 of the MSHCP outlines the MSHCP funding/financing approach. It also identified best estimates of Plan implementation costs at the time of Plan adoption, including the local funding commitment that represents a portion of the overall land acquisition, management and monitoring, and Plan administration costs. The Local Funding Program included a mix of funding sources to provide "an equitable distribution of the cost for local mitigation under the MSHCP." The proposed funding sources included Local Development Mitigation Fees (and land dedications), regional infrastructure project public contributions (including contributions to mitigate for transportation infrastructure, regional utility projects, local public capital construction projects, and regional flood control projects), and landfill tipping fees.

Participating cities and the County were each required to implement a Local Development Mitigation Fee under California Government Code Section 66000 et seq. (the "Mitigation Fee Act") and supported by the separate "Final Mitigation Fee Nexus Study Report for the Western Riverside County Multiple Species Habitat Conservation Plan," July 1, 2003 (Original or 2003 Nexus Study). The MSHCP funding chapter notes the need for frequent evaluations of the performance of the funding mechanisms and assessments of the funding plan and the need to make any necessary modifications to the funding mechanisms. The MSHCP also notes that the mitigation fee will need to be "reevaluated and revised should it be found to insufficiently cover mitigation of new development."

In addition to the common practice of updating mitigation fees periodically to account for changing circumstances, the Western Riverside County Regional Conservation Authority (RCA) has determined that significant changes have occurred and/or circumstances have arisen that justify an update to the mitigation fees. These changes include, but are not limited to, the following:

- The need to acquire more land than originally forecast due to the lower than expected land dedication.
- The lower-than-expected levels of non-fee funding from local and regional funding sources.
- The lower than expected levels of residential development.
- The need to diversify land acquisitions away from a focus on the larger, more remote parcels to also acquiring parcels closer to urbanized areas, consistent with the reserve assembly requirements of the MSHCP.

Original and Existing Fee Schedule

All local jurisdictions participating in the MSHCP and obtaining coverage for public and private take in their jurisdictions were required to adopt and implement the 2004 Mitigation Fee Schedule through ordinance and resolution and then to pass through the fee funding (except for any additional administrative charges added by the jurisdictions) to the RCA to fund MSHCP implementation. The ordinances allowed for periodic inflationary increases based on the annual change in the Consumer Price Index for the Los Angeles-Anaheim-Riverside area. In 2018 the Bureau of Labor Statistics implemented a geographic revision, establishing Riverside as its own Core Based Statistical Area. As a result, Riverside was removed from the Consumer Price Index encompassing Los Angeles and Anaheim. Going forward, inflationary increases will be based on the annual change in the Consumer Price Index for the newly established Riverside-San

Bernardino-Ontario area. As outlined in the 2003 Nexus Study (Original Nexus Study), all new development in Western Riverside County is required to pay the mitigation fee.

Table 1 shows the original 2004 Local Development Mitigation Fee schedule and the current 2021 Fee Schedule that reflects periodic inflationary fee adjustments using the indexing process that collectively increased the fees by 35 percent between 2004 and 2020 (this was below the overall inflation index increase over this period).

Table 1 2004 and 2021 MSHCP Fee Schedule

Fee Category	2004 Fee per unit or per acre	2021 Fee per unit or per acre ³
Residential: Up to 8.0 dwelling units per acre (DUAC)	\$1,651	\$2,234
Residential: 8.0-14.0 DUAC	\$1,057	\$1,430
Residential: 14.0+ DUAC	\$859	\$1,161
Commercial (per acre)	\$5,620	\$7,606
Industrial (per acre)	\$5,620	\$7,606

Updated Mitigation Fee Schedules

This 2020 Nexus Study has estimated the increased fee level that would be required to provide sufficient revenues, based on the best available forecasts of future growth, to support the full implementation of the MSHCP, including the completion of all land acquisition and the establishment of the necessary endowment, by 2029 (Year 25 of Plan implementation). Because, as shown below, this would require a major increase in the fee levels, three other scenarios are also considered where different time extensions provide more time for land acquisition. These extensions allow for the costs of Plan implementation (including land acquisitions) to be spread across more development and, as a result, moderate the level of mitigation fee increase required. In addition, the longer extension scenarios require a pace of land acquisition that is more consistent with what has proven to be achievable. All of these fee

³ Note it is RCA procedure to refer to fees during, for example, Fiscal Year 2020/2021, as the 2021 fee. The 2021 fee became effective July 1, 2020, and applies for the fiscal year of 2020-21 (i.e., until June 30, 2021 when the 2022 Fee begins).

⁴ The MSHCP provided a 25-year period of the required land acquisition with the larger 75-year permit term. This is labelled the "No Extension" or "Baseline Scenario" in this Update Study.

⁵ The baseline scenario as well as the extension scenarios assume that all land acquisition as well as the full endowment will be completed/ established by the end of the specified implementation/ land acquisition period. Interest from the non-depleting endowment will fund all ongoing costs thereafter.

increases would be consistent with the Mitigation Fee Act and the MSHCP and associated Incidental Take Permit and Implementing Agreement.

The mitigation fee levels shown for each extension scenario are the fee levels required to cover the appropriate portion of the Local Permittee MSHCP implementation costs based on the best information available at this time. The revised mitigation fee levels reflect changes in estimated costs, expected levels of land dedication, and non-fee funding. Consistent with the MSHCP and Original Nexus Study, it is assumed that all new development in Western Riverside County will pay the mitigation fee because, as noted in the MSHCP, "new development affects the environment through construction activity and cumulatively through population bases that result from such development." Importantly, the revised mitigation fee levels also reflect the decision to determine the mitigation fee that applies to different land uses on a consistent per gross acre basis. This approach is considered to provide a clear, consistent, and proportionate method for determining mitigation fees on new development. The 2020 Nexus Study does convert the overarching per gross acre fee into per unit residential fees for different density ranges; this conversion was conducted to provide implementation/administrative consistency for member jurisdictions.

Table 2 Updated MSHCP Implementation Costs and Per Acre Mitigation Fees

Fee Per Acre	No Extension	5-Year Extension	10-Year Extension	15-Year Extension
Net Cost	\$912,756,583	\$902,353,150	\$892,767,438	\$883,987,805
Acres of Development				
Residential	14,026	21,818	29,611	37,403
Nonresidential	6,239	9,705	13,171	16,637
Total	20,265	31,523	42,782	54,040
Mitigation Fee per Acre	\$45,041	\$28,625	\$20,868	\$16,358

Sources: Southern California Association of Governments; Western Riverside County RCA; Economic & Planning Systems, Inc.

⁶ Consistent with the Original Nexus Study and the technical analysis in this study update (and as described in more detail in the Fee Implementation Handbook), certain types of public improvements/infrastructure projects will make mitigation payments calculated as a percent of total improvement cost. All projects are required to make a mitigation payment/contribution (except where exempted as specified in the Ordinance); where no mitigation payment process is specified, the project will pay the updated per acre mitigation fee.

⁷ This is the approach taken by the majority of regional Habitat Conservation Plans in California, including the Coachella Valley Multiple Species Habitat Conservation Plan mitigation fee.

As shown in **Table 2**, the required mitigation fee per gross acre of development varies substantially based on level of extension as follows:

- **No Extension**. Under the current structure, where all land acquisition must occur by the end of Year 25 of MSHCP implementation (2029), a mitigation fee of **\$45,041 per acre** of development would be required.
- **5-Year Extension**. With a 5-year extension, where all land acquisition must occur by the end of Year 30 of MSHCP implementation (2034), a mitigation fee of **\$28,625 per acre** of development would be required.
- 10-Year Extension. With a 10-year extension, where all land acquisition must occur by the end of Year 35 of MSHCP implementation (2039), a mitigation fee of \$20,868 per acre of development would be required.
- **15-Year Extension**. With a 15-year extension, where all land acquisition must occur by the end of Year 40 of MSHCP implementation (2044), a mitigation fee of **\$16,358 per acre** of development would be required.

For residential development, the per gross acre fee is translated into per residential unit fees by density category to provide for a fee framework that is consistent with the current fee structure. The per residential unit fees are calculated by dividing the per gross acre fee by an assumed typical/ average density for each of the three density ranges (low, medium, and high). The full mitigation fee schedule (for each extension scenario) is shown in **Table 3**, including the per unit residential fees by density category and per gross acre fees for non-residential development. The typical/ average residential densities used to calculate the per-unit residential fees are the same as the density assumptions in the Original Nexus Study.

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⁸ For example, the \$3,635 per unit Residential – Low fee under the 15-year extension is derived by dividing the overall per gross acre mitigation fee of \$16,358 (shown in Figure 2) by the assumed typical/average density of Residential Low of 4.5 units/acre.

⁹ The Fee Implementation Handbook provides more specifics on how to determine a project's residential density and therefore the appropriate per unit residential fee that applies.

Table 3 Updated Mitigation Fee Schedule by Extension Scenario

Fee Per Unit	Current Fee	No	5-Year	10-Year	15-Year
	2021 ¹	Extension	Extension	Extension	Extension
Residential - Low (Up to 8.0 DUAC) ²³ Residential - Medium (8.0-14.0 DUAC) ²³ Residential - High (14.0+ DUAC) ²³	\$2,234	\$10,009	\$6,361	\$4,637	\$3,635
	\$1,430	\$4,170	\$2,650	\$1,932	\$1,515
	\$1,161	\$1,846	\$1,173	\$855	\$670
Commercial / Industrial (per acre)	\$7,606	\$45,041	\$28,625	\$20,868	\$16,358

^{1.} Western Riverside County Multiple Species Conservation. Local Development Mitigation Fee Schedule for FY 2020-21 (Effective July 1, 2020 – June 30, 2021), annually adjusted using the Consumer Price Index.

Sources: Southern California Association of Governments; Western Riverside County RCA; Economic & Planning Systems, Inc.

Key Drivers of Fee Change

The change in Local Development Mitigation Fee is the result of a number of different contributing factors ("moving parts"), fully documented and detailed in **Chapters 2** through **7**. This Nexus Study is based on the most current information available including, for some inputs, recent years of experience from MSHCP implementation. The factors that have had the most significant effect on the Local Development Mitigation Fee calculations are summarized below.

1. Lower-than-expected land dedications substantially increase the Local Permittee habitat acquisition cost component of MSHCP implementation. The MSHCP assumed that 41,000 of the 97,000 acres (42 percent) to be conserved by Local Permittee action/funding would be provided at no cost through land dedication associated with development inside the Criteria Cells. Through the first sixteen years of Plan implementation, less than 1,000 acres of the Local Permittee habitat conservation obligations have been generated through these dedications. An additional 10,000 acres of land dedication requirements have been required as part of proposed developments that have yet to occur. Beyond the dedication associated with previously proposed projects, additional land dedication is not expected. ¹⁰ As a result, the 2020 Nexus Study assumes the noted 10,000 acres of land dedication is formalized over the next eight years (an average annual land dedication of 1,250 acres per year) prior to the end of the current land acquisition period. No additional land dedication is assumed, even if the acquisition period is extended. As a result, at the end of the current habitat acquisition period (Year 25 of Plan

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^{2.} Per acre mitigation fees translated into per unit fees based on the following residential densities: for low density, 4.5 units per acre; for medium density, 10.8 units per acre; for high density, 24.4 units per acre, consistent with the assumptions used in Appendix E of the original Nexus Study.

^{3.} DUAC stands for Dwelling Units per Acre.

¹⁰ In September 2016, the RCA revised its fee credit and waiver policy, limiting the likelihood of projects paying fees and dedicating land.

implementation), total land dedication is expected to represent about 11,000 acres and about 11 percent of the Local Permittee land conservation requirement. The RCA therefore needs to directly acquire an additional 30,000 acres of land relative to the expectations of the Original Nexus Study.

- 2. Lower than expected regional infrastructure public contributions have reduced the non-fee funding available, increasing the costs to be funded through the mitigation fee. The MSHCP assumed a substantial level of funding from regional infrastructure project public contributions, including transportation infrastructure, regional utility projects, local public capital construction projects, and regional flood control projects, as well as from landfill tipping fees. While the Measure A sales tax has provided substantial funding as expected, other revenue sources, on aggregate, have provided (and are expected to continue to provide) substantially less funding than forecast in the 2003 Nexus Study. As a result, mitigation fees will need to cover about 91 percent of Local Permittee MSHCP implementation costs relative to the original assumption of about 56 percent.
- 3. The change towards a consistent "per gross developed acre" fee basis provides a more consistent approach for all land use development types. The 2003 Nexus Study used an "Equivalent Benefit Unit" approach to distributing mitigation costs between different land use categories. This Nexus Study adjusts the fee calculation to the more commonly used per gross acre basis. Under this approach, the new Local Development Mitigation Fees are all based on one "across the board" per gross acre fee determination. Non-residential development then pays this per acre fee, while per unit residential fees by density category are derived from this common per gross acre fee. ¹¹ This change evens out some of the prior differences in mitigation fee levels.
- 4. The estimates of average per acre land values have not changed substantially, so they have had a limited effect on the change in mitigation fees. The original MSHCP implementation cost estimate was based on an average land value of about \$13,100 per acre. This was based on research on land transactions of parcels with different land use designations and sizes in 2001/2002. The land valuation analysis conducted for this Nexus Study estimated a planning-level land value of about \$14,300 per acre based on land transactions primarily in the 2014 to 2017 period (inflated to 2019-dollar terms). As a result, land value estimates have not changed substantially in nominal dollar terms since the Original Nexus Study. This estimated per acre land value is above the cost of most RCA transactions to date, though the average land values of future RCA land acquisition are expected to increase due to the increasing need to purchase more expensive land in "linkage" areas.

¹¹ Similar to the Original Nexus Study, all new development in Western Riverside County is required to pay the mitigation fee (or otherwise provide the necessary mitigation). The conversion from per gross acre to per unit fees for residential development is conducted to provide administrative continuity for member agencies.

Organization of Report

This Nexus Study includes several chapters. Chapter 1, this chapter, describes the purpose and need for this Nexus Study, the recommended changes in the Local Development Mitigation Fee, and the key drivers of these changes. Chapters 2 through 7 provide the technical analysis that supports the updated fees and nexus findings. Chapter 2 summarizes the purpose of and basis for the MSHCP, the conservation requirements of the MSHCP, and the financing strategy and approach developed to implement the MSHCP in 2004. Chapter 3 describes the conservation achievements to date, identifies the remaining conservation requirements, and identifies expected land dedication. Chapter 4 provides the development forecast used in the calculation of the updated mitigation fees. Chapter 5 provides the estimates of MSHCP implementation costs, including land acquisition, management and monitoring, program administration, and endowment. Chapter 6 describes the historical levels of non-fee revenues available to help fund Local Permittee MSHCP implementation costs. Chapter 7 brings together the technical analysis in Chapters 2 through 6 to estimate the updated 2020 Local Development Mitigation Fees. Chapter 8 provides the nexus findings required under the Mitigation Fee Act as require to establish the updated fees. Finally, Chapter 9 highlights some of the administration and implementation requirements under the Mitigation Fee Act, recognizing that the Fee Implementation Handbook provides more specific guidance to the RCA and its partner agencies on the implementation of the mitigation fee program.

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MSHCP Purpose, Basis, and Goals

In response to the need to maintain future growth opportunities in Western Riverside County while addressing the requirements of the state and federal Endangered Species Acts, the County and the Riverside County Transportation Commission initiated the Riverside County Integrated Project (RCIP) in 1999. The Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP) is one part of the RCIP that includes:

- Updated County General Plan. Addresses the required general plan elements such as land use, circulation, housing and open space, and conservation and includes programs to implement the MSHCP, enhance transit alternatives, and encourage development of mixeduse centers.
- Community and Environment Transportation Acceptability Process. Identifies future transportation corridors in Western Riverside and provides needed environmental documentation to allow preservation of future right-of-ways.
- MSHCP. The Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP or Plan) is a comprehensive, multi-jurisdictional Habitat Conservation Plan (HCP) focusing on the conservation of species and their associated habitats in Western Riverside County. The MSHCP conserves vulnerable plant and animal species and their associated habitats in Western Riverside County and supports economic development.

The MSHCP was adopted in 2003 by the Riverside County Board of Supervisors. Subsequently, all of the Western Riverside cities, the County of Riverside, County Flood Control and Water Conservation District, County Regional Parks and Open-Space District, County Department of Waste Resources, Riverside County Transportation Commission, California Department of Transportation, California Department of Parks and Recreation, California Department of Fish and Game, the US Fish and Wildlife Service and the RCA signed an Implementing Agreement for the MSHCP. The Implementing Agreement includes terms to ensure MSHCP-implementation, defines remedies and recourses should any of the parties of the Agreement fail to perform obligations, and provides assurances that, as long as the MSHCP is being implemented, the Wildlife Agencies will not require additional mitigation from the Permittees. 12

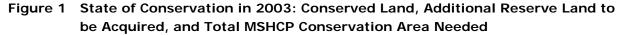
The MSHCP serves as an HCP pursuant to Section 10(a)(1)(B) of the federal Endangered Species Act of 1973 as well as a Natural Communities Conservation Plan under the NCCP Act of 2001. The MSHCP streamlines these environmental permitting processes by allowing the participating jurisdictions to authorize "take" of plant and wildlife species identified within the Plan Area. At the same time, Plan implementation provides a coordinated MSHCP Conservation Area and implementation program to preserve biological diversity and maintain the region's quality of life.

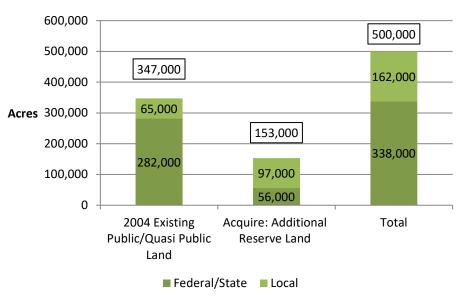
¹² The Wildlife Agencies include the US Fish and Wildlife Service and the California Department of Fish and Wildlife and the Permittees include all of the other parties to the Implementing Agreement.

The MSHCP and the associated Implementing Agreement and Incidental Take Permit collectively determine a set of conservation actions, and the associated responsible parties, that must be taken to meet the terms of the Incidental Take Permit and benefit from the regulatory streamlining and other benefits of the MSHCP. This includes the identification of the responsibilities of the Local Permittees. 13

MSHCP Conservation Requirements

The goal of the MSHCP is to enhance and maintain biological diversity and ecosystems processes while allowing future economic growth. The MSHCP calls for an MSHCP Conservation Area of 500,000 acres and focuses on the conservation of 146 species.





As shown in **Figure 1**, when the MSHCP was adopted, existing public and quasi-public conservation lands covered 347,000 acres, leaving a need for 153,000 acres of land, called Additional Reserve Land (ARL), to meet the goals of the MSHCP (see **Figure 1**). The MSHCP specifies that responsibility for the conservation of the 153,000-acre Additional Reserve Lands is shared by the local development process (97,000 acres) and state and federal purchases (56,000).

¹³ Local Permittees include the Western Riverside cities, the County of Riverside, County Flood Control and Water Conservation District, County Regional Park and Open Space District, County Department of Waste Resources, and Riverside County Transportation Commission.

Table 4 MSHCP Goals by Area Plan

Area Plan	Total Area of Criteria Cells	Low End of Goal	High End of Goal	Midpoint
Cities of Riverside and Norco	1,756	90	240	165
Eastvale	665	145	290	220
Elsinore	28,946	11,700	18,515	15,110
Harvest Valley / Winchester	820	430	605	515
Highgrove	1,452	345	675	510
Jurupa	5,476	890	1,870	1,380
Lake Mathews / Woodcrest	11,673	3,215	5,470	4,340
Lakeview / Nuevo	14,682	6,650	10,235	8,445
Mead Valley	7,703	1,885	3,635	2,760
Reche Canyon / Badlands	26,000	10,520	15,610	13,065
REMAP	78,423	41,400	58,470	49,935
San Jacinto Valley	32,828	11,540	19,465	15,500
Southwest Area	66,076	22,500	36,360	29,430
Sun City / Menifee Valley	2,059	1,120	1,585	1,355
Temescal Canyon	10,007	3,485	5,800	4,645
The Pass	22,652	8,540	13,925	11,230
Total	311,218	124,455	192,750	158,605

The MSHCP includes methods to determine whether the goals of the Plan are being met. One of the methods is measuring the extent to which conservation acquisitions are moving toward acquisition goals by each Area Plan. ¹⁴ Area Plans are established in the County's General Plan and are used in the MSHCP as a common geographic unit in Western Riverside County. The MSHCP established low, high, and midpoint acquisition goals for each Area Plan based on biological needs. The midpoint acquisition goals for each Area Plan range from 165 to nearly 49,935 acres, as shown in **Table 4**. The midpoint goals sum to 158,605 which represents 5,605 acres more than are needed to fulfill the MSHCP goals. As a result, acquisitions in some Area Plans can fall below the mid-point targets while the total ARL can still achieve the 153,000-acre goal.

MSHCP Financing Strategy

One of the key requirements of the MSHCP, Implementing Agreement, and Incidental Take Permit (consistent with the requirements of the federal Endangered Species Act) is the provision of adequate funding by Local Permittees to the Implementing Entity (the Regional Conservation Authority) to conduct the conservation actions identified in the MSHCP as the responsibility of the Local Permittees.

¹⁴ Other geographic units include Rough Steps, city jurisdictions, and Area Plan subunits. For the purposes of this analysis, Area Plans have been selected as the primary unit of analysis because they are the middle-sized unit (smaller than Rough Steps and larger than Area Plan subunits) and have not changed over time (unlike jurisdictions, several of which have incorporated since the adoption of the MSHCP.

Section 8.0 of the MSHCP addresses "MSHCP Funding/Financing of Reserve Assembly and Management." This section provides best estimates of Plan implementation costs at the time of Plan adoption, including the local funding commitment – the portion of Plan implementation costs that represents the Local Permittees' portion of the overall land acquisition, management, monitoring, adaptive management, and Plan administration costs. Section 8.5 describes the Local Funding Program. The Local Funding Program included a mix of funding sources to provide "an equitable distribution of the cost for local mitigation under the MSHCP." The proposed funding sources included Local Development Mitigation Fees, density bonus fees, regional infrastructure project public contributions (including transportation infrastructure, regional utility projects, local public capital construction projects, and regional flood control projects), and landfill tipping fees. Key components of the overall MSHCP implementation and funding strategy are highlighted below:

- The Regional Conservation Authority would implement the MSHCP with funding from different sources.
- The permanent protection of 97,000 acres in Additional Reserve Lands by Year 25 of the Plan (2029) would be achieved through direct purchase of habitat lands by the RCA using local funding and through the HANS dedication process.¹⁵
- Local funding sources would fund the ongoing management and maintenance costs of the local portion of the Additional Reserve Lands acquired through local funding (97,000 acres by end of acquisition period).
- Local funding sources would fund monitoring activities on the pre-Plan local conservation and all the new Additional Reserve Lands (500,000 acers by end of acquisition period).
- The permanent protection of 56,000 acres in Additional Reserve Lands by Year 25 would be achieved using state/federal funding sources or contributions.
- State and federal funding sources would fund the management and maintenance costs of the State/federal portion of the required Additional Reserve Lands.
- Local Development Mitigation Fees (on private development) would fund the Local Permittee MSHCP implementation costs that were not funded by other local/regional funding sources or public contributions for public development project mitigation.
- The overall permit period was set at 75 years. Once habitat acquisition was completed by Year 25, remaining funds along with newly created revenue sources were to be used to fund

¹⁵ Section 6.1.1 of the MSHCP describes the HANS process. The Habitat Evaluation and Acquisition Negotiation Strategy (HANS) process applied to any property owner applying for a discretionary permit for land within a Criteria Area/Criteria Cell. Under the process, the County determined whether portions of the property are needed for conservation and then may send their evaluation to the RCA for Joint Project Review (JPR). During JPR, the project applicant negotiated the terms of the development and conservation of the project. The applicant also paid fees on the new development. This approach was refined when a new fee credit policy, adopted in 2016, provided for fee credits where appropriate lands are dedicated.

monitoring and management as well as to fund the establishment of an endowment to cover ongoing post-permit costs (beyond Year 75).

Importantly, the MSHCP funding chapter notes that frequent evaluations of the performance of the funding mechanisms and assessments of the funding plan will occur and that any necessary modifications to the funding mechanisms will be developed.

MSHCP Implementation Costs and Funding Sources

The original estimated costs and proposed funding sources were documented in the MSHCP and are summarized in **Table 5**. These were developed based on research and analysis conducted as part of MSHCP development.

As shown, Plan implementation costs over the first 25 years of implementation were estimated at about \$950 million in 2004-dollar terms. Key assumptions driving the implementation cost estimates included:

- **Dedications**. Direct acquisition using local funding sources would be required to acquire 56,000 acres, with 41,000 acres (or 42 percent) of the required local habitat protection coming through HANS dedication.
- Land Cost. Average land value of \$13,100 per acre for Additional Reserve Lands purchased by the RCA.
- Management and Monitoring: Management and monitoring costs included three key components as follows: Reserve Management, Adaptive Management, and Biological Monitoring.¹⁶
- Program Administration. RCA program administration costs would average about \$1.2 million each year in 2004 dollars during the 25-year period where land acquisition was required.
- **Cost Distribution**. Overall, land acquisition costs were estimated at 77 percent of total implementation costs, with management and monitoring at 20 percent, and program administration at 3 percent (see **Figure 2**).

¹⁶ See Chapter 5 of the MSHCP for a description of these activities.

Table 5 2004 Estimates: MSHCP Implementation Costs and Funding Sources

ltem	Total for 2004 - 2028 (Years 1 - 25)	Average Annual	% of Total Cost/ Funding Need
Local Permittee Land Requirements	;		
Preservation Requirement	97,000 acres	3,880 acres	na
HANS Dedication	41,000 acres	<u>1,640</u> acres	na
Local Permittee Acquisition	56,000 acres	2,240 acres	na
Local Permittee MSHCP Implementa	ation Costs		
Land (1)	\$733,600,000	\$29,344,000	76.91%
Management & Monitoring	\$190,200,000	\$7,608,000	19.94%
RCA Staff	\$30,000,000	\$1,200,000	3.15%
Other Costs	na	na	na
Endowment	not included	not included	na
Total Costs	\$953,800,000	\$38,152,000	100.0%
Local Revenues			
Private Development Mitigation Fees	\$539,600,000	\$21,584,000	50.1%
Density Bonus Fees	\$66,000,000	\$2,640,000	6.1%
Regional Transportation Infra. (2)	\$250,000,000	\$10,000,000	23.2%
_ocal Roads (Measure A)	\$121,000,000	\$4,840,000 (3)	11.2%
Гірріng Fees (4)	\$100,000,000	\$4,000,000	9.3%
Miscellaneous Revenues (5)	<u>\$0</u>	<u>\$0</u>	0.0%
Total Revenues	\$1,076,600,000	\$43,064,000	100%

⁽¹⁾ Average land value per acre assumed to be \$13,100 per acre.

Source: Chapter 8 of MSHCP; Economic & Planning Systems.

⁽²⁾ Public contributions at specificed % of new road construction.

^{(3) \$121} million to be provided over 10 years, so \$12.1 million annually over that period.

⁽⁴⁾ Includes \$90 million from El Sobrante Landfill and \$10 million from other County landfills.

⁽⁵⁾ Other potential revenues, including public contributions from other public projects, tipping fees from Eagle Mountain Landfill, and potential new voter-approved regional funding were noted but not estimated.

Mangmnt. RCA Staff, & \$1.2 , 3%

Monitoring \$7.6 , 20%

\$38.1 million total

Land, \$29.3, 77%

Figure 2 MSHCP Estimated Annual Costs in Millions, 2004 Dollars

As also shown in **Table 5**, MSHCP funding from local/regional sources was estimated to be about \$1.0 billion in 2004 dollars through Year 25, sufficient to cover the implementation costs over this period. Key assumptions driving the funding estimates included:

- **Measure A**. Measure A (local sales tax transportation funding measure) would provide \$121 million over 10 years in 2004-dollar terms.
- **Regional Transportation Funding**. Public contributions from regional transportation infrastructure projects would provide an average of \$10 million each year or \$250 million through Year 25.
- **Tipping Fees**. Landfill tipping fees would provide about \$100 million in revenue over 25 years, about \$4 million each year, primarily from the El Sobrante landfill.
- Mitigation Fees. Private development fees, including private development mitigation fees
 and density bonus fees, would generate over \$600 million over the first 25 years, about \$24
 million annually.
- Development Forecast and Participation. The forecast of private development fees was based on a preliminary fee schedule and the forecast of 336,000 new residential units (13,440 units each year) and 371 acres each year of commercial and industrial development. All new development was assumed to pay the private development mitigation fee with a portion paying the density bonus fee.
- Other Funding Options. Potential additional funding might come through contributions from other local/regional public entities, other landfills, or new voter-approved funding initiatives.
- **Funding Distribution**. Overall, about 55 percent of the estimated funding was expected to be generated by private development fees, with 45 percent from other funding sources.

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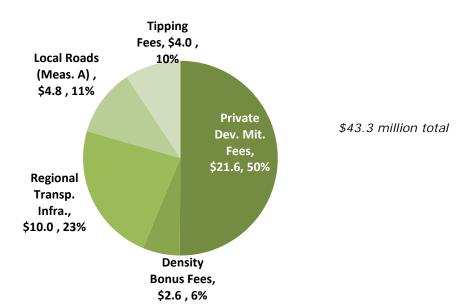


Figure 3 MSHCP Estimated Annual Revenues in Millions, 2004 Dollars

Development Mitigation Fees and Calculation

The MSHCP notes that "new development affects the environment directly through construction activity and cumulatively through population bases that result from Development." As a result, the cities and County are required to implement a Local Development Mitigation Fee that was expected to represent one of the primary sources of funding for the implementation of the MSHCP. The MSHCP indicates that the Local Development Mitigation Fee will be adopted under California Government Code Section 66000 et seq. (the "Mitigation Fee Act") that "allows cities and counties to charge new development for the costs of mitigating the impacts of new development."

The MSHCP identified preliminary estimates of Local Development Mitigation Fees and indicated that these mitigation fees were expected to generate the majority of funding for Local Permittee obligations. The MSHCP noted that, under the Mitigation Fee Act, "a nexus study is required to demonstrate that the proposed fee is proportionate to the impacts of new development." The Mitigation Fee Act also includes a number of reviewing and reporting requirements. The MSHCP also notes that the fee will need to be "reevaluated and revised should it be found to insufficiently cover mitigation of new development."

A nexus study entitled "Final Mitigation Fee Nexus Study Report for the Western Riverside County Multiple Species Habitat Conservation Plan" was completed on July 1, 2003 (2003/Original Nexus Study). This nexus study conducted a detailed analysis of the costs of implementing the Plan, identified the Local Permittee funding obligations, determined the portion to be funded through the Local Development Mitigation Fee, and made the necessary nexus findings under the Mitigation Fee Act. The MSHCP and 2003 Nexus Study both indicated that all new development in the Western Riverside County Plan Area affects covered species and habitat and so the Local Development Mitigation Fees would apply to all new development in participating jurisdictions in Western Riverside County.

Mitigation Fee Schedule and Adjustments

All local jurisdictions participating in the MSHCP and obtaining coverage for public and private take in their jurisdictions were required to adopt and implement this mitigation fee schedule through ordinance and resolution and then to pass through the fee funding (minus any additional administrative charges) to the RCA to fund MSHCP implementation. Indexed-increases based on the annual change in the Consumer Price Index for the Los Angeles-Anaheim-Riverside area were provided for in the ordinances to allow modest adjustments in mitigation fees to respond to inflationary cost increases. Due to the geographic revision implemented by the Bureau of Labor Statistics, going forward indexed-adjustments will be based on the annual change in the Consumer Price Index for the Riverside-San Bernardino-Ontario area.

Table 6 shows the original 2004 Local Development Mitigation Fee schedule and current 2021 Fee schedule that reflects periodic inflationary fee adjustments using the indexing process.

Table 6 2004 and 2021 MSHCP Fee Schedule

Fee Category	2004 Fee per unit or per acre	2021 Fee per unit or per acre
Residential: Up to 8.0 dwelling units per acre (DUAC)	\$1,651	\$2,234
Residential: 8.0-14.0 DUAC	\$1,057	\$1,430
Residential: 14.0+ DUAC	\$859	\$1,161
Commercial (per acre)	\$5,620	\$7,606
Industrial (per acre)	\$5,620	\$7,606

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3. Habitat Protection to Date and Future Conservation Scenario

The RCA has achieved substantial levels of habitat protection to date using the funding sources established and the associated variable flows of incoming revenues. The level of habitat protection achieved, because of lower levels of funding and land dedication than expected, has however fallen behind the pace of protection forecast in the Original Nexus Study. This chapter summarizes the achieved protection to (1) establish both the scale of future acquisitions required to meet the overall Additional Reserve Land (ARL) goals, (2) consider the annual pace of habitat protection through acquisitions and dedications in absolute terms and relative to the original MSHCP forecasts, and (3) inform the development of the Conservation Scenario that forms the baseline (project description) for estimating future MSHCP implementation costs and associated funding requirements and updated mitigation fees.

Habitat Protection Accomplishments Through 2019

Between the start of the MSHCP program and the end of 2019, the most recent full calendar year, about 40 percent of the 153,000-acre ARL target has been achieved, totaling almost 62,000 acres in acquisitions, easements, or dedications (see **Table 7**). ¹⁷ As shown of the 97,000 acres in Local Permittee ARL obligation about 40,200 acres had been protected by the end of 2019. Of the 56,000 acres in State/Federal ARL obligation, about 21,600 acres have been protected to date.

Table 7 Conservation Through End of 2019

Party	Need	Conserved 2000-2003	Conserved 2004 - 2019	Total Conserved 2000 - 2019	Remaining Need 2020-2043
Local	97,000	4,531	35,681	40,212	56,788
State + Fed	56,000	12,408	9,200	21,608	34,392
Total	153,000	16,939	44,881	61,820	91,180

Sources: Western Riverside County Regional Conservation Authority MSHCP Annual Reports; RCA information on 2019 purchases; Economic & Planning Systems, Inc.

Conservation Goals and Progress

The MSHCP anticipated that acquisition would take place for 25 years, through the end of 2029, with 97,000 acres conserved through local means and 56,000 acres conserved with State/federal funding. To achieve this goal, an average of 6,120 acres of conservation is required each year,

¹⁷ Note that while the MSHCP was adopted in 2004, certain conservation which took place between 2000 and 2003 was counted toward the MSHCP reserve.

including an average of 3,880 annually from local funding sources/dedications and 2,240 annually from State and federal conservation.

Figure 4 illustrates how steady progress would result in achievement of the ARL goals by 2029. **Figure 5** shows actual progress toward the goals, through 2019. More than 21,000 acres have been conserved through State/federal means, and over 40,000 acres have been conserved through local actions. These totals sum to about 40 percent of the total ARL goal of 153,000 acres. As shown in **Figure 5**, with 16 years of the 25-year acquisition period completed, the ARL acquisitions have fallen behind the pace forecast in the Original Nexus Study. Protection through the end of 2019 represents 63 percent of the original forecast (65 percent for Local obligations and 60 percent for State/federal obligations). For the Local Permittee obligations, as discussed further below, the lower level of land dedication relative to the original forecasts account for much of the habitat protection gap that has emerged over the last 16 years.

Figure 4 MSHCP Conservation Goals, 2019 and 2029 Goals Highlighted

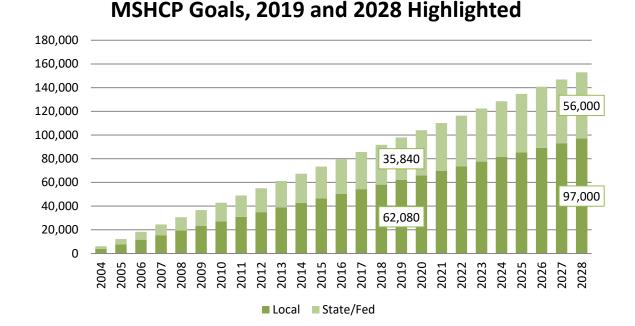




Figure 5 Progress Towards ARL Through End of 2019

Sources: Western Riverside County Regional Conservation Authority; Economic & Planning Systems, Inc.

Land Dedications

The MSHCP envisioned a conservation program where land and easements would be purchased by the RCA and land would be dedicated to the RCA through the development process. ¹⁸ In addition, the potential for no-cost and low-cost donations for tax benefit purposes was also created. The MSHCP did not assume donations or conservation easement acquisitions as part of its financial analysis (this is appropriate given the limited number of such transactions). The MSHCP did, however, anticipate that 41,000 acres would be conserved through dedications, 56,000 acres through purchases on behalf of local permittees, and 56,000 acres through purchases conducted by or funded by federal and State agencies/sources for a total of 153,000 acres.

For the local portion of the goal (97,000 acres), this translates into about 42 percent of the goal conserved via dedications associated with the development review process—called Habitat Evaluation and Acquisition Negotiation Strategy (HANS)—and the other 58 percent purchased by the RCA from willing sellers. The level of dedication is a key assumption for the MSHCP implementation cost estimate as each acre dedicated through HANS is one fewer acre which must be conserved through land acquisitions at market values.

The HANS process was established to apply to developments proposed within the Criteria Cells of the MSHCP Study Area. The Criteria Cells represent areas with high conservation values relative to the areas outside of the Criteria Cells. The HANS process was designed to indicate what conservation (dedication) may be needed from new development from a biological needs

¹⁸ This process is known as the Habitat Evaluation and Acquisition Negotiation Strategy (HANS).

perspective. Subsequent to that technical analysis, applicants could then proceed to the Joint Project Review (JPR) process during which the parties negotiate an implementation plan for the project, consistent with the HANS findings. The applicants would also pay mitigation fees on the actual development. To date, a modest amount of land (less than 1,000 acres) has been conserved via the HANS/JPR method compared to the 26,000 acres that was forecast to have occurred by this point in the MSHCP implementation.

While very little land has been dedicated to the RCA through HANS/JPR, several projects went through the HANS/JPR process and have agreements in place for dedication/conservation of lands, but the start date (if any) for these projects is unknown (i.e., may be far in the future). These projects cover about 35,000 acres in the Criteria Cells and, under the JPR agreements, have set aside about 30 percent of that total or about 10,000 acres for conservation/dedication.

The adoption of Resolution No. 2016-003 in September 2016 revised the RCA's fee credit and waiver policy. This resolution indicated that MSHCP fee credit should be provided in exchange for land that contributes to reserve assembly. As a result, after the adoption of this resolution, new development is not be expected to pay mitigation fees and dedicate land in the manner originally envisioned in the MSHCP limiting the likelihood of the types of dedications envisioned in the Original Nexus Study.

Future Conservation Scenario

This updated financial analysis, nexus study, and mitigation fees estimate require a base description of the additional habitat protection required. In subsequent chapters, cost estimates are developed in reference to, and in application to, this conservation scenario to develop the overall implementation costs and the associated funding required, both in aggregate and through time during the land acquisition period of the program. Four questions are of particular importance:

- 1. **Remaining Habitat Protection.** The amount of habitat protection required to meet the MSHCP requirements.
- Dedications. The amount of land dedication assumed to occur through the HANS/JPR process over the habitat protection period and the associated amount of habitat that must be acquired.
- 3. **Time Frame.** The period over which habitat protection goals must be met.
- 4. **Land Characteristics.** The characteristics of the land to be protected to meet MSHCP requirements (e.g., goals by Area Plan, habitat cores and linkages etc., land use designations and parcel sizes).

The answers to question 1 are provided in the data above (see **Table 7**). The answer to question 4 is provided in the subsequent chapter on land costs, with illustrative answers coming from RCA data and GIS analysis. The answer to question 2 is addressed below and is based on information on accomplishments to date (described above), discussions with RCA staff, the current Fee Waiver and Credit Policy, and an assessment of realistic opportunities and expectations. Finally, question 3 raises the issue of whether an extension to the MSHCP land acquisition implementation period should be provided. As described below, three different

extension scenarios (5-, 10-, and 15-year extension scenarios) are evaluated, as well as the baseline, "No Extension Scenario," to indicate the outcomes under different scenarios.

Habitat Protection, Land Dedication, and Conservation Scenarios

As shown in **Table 8**, there is a total of about <u>91,200 acres</u> of land protection still required to complete the land protection obligations under the MSHCP and to bring the Additional Reserve Lands to 153,000 acres. Of this, the State/federal requirements is for about <u>34,400 acres</u>, while the Local Permittee requirement is for about <u>56,800 acres</u>.

The experience of the last 16 years indicates that the MSHCP was overly optimistic in terms of land dedications, assuming that 41,000 acres would be dedicated to the RCA. As noted above, about 10,000 acres of potential future land dedication is associated with a range of previously proposed projects. Based on historical information on actual, dedications agreements on proposed projects, current RCA policy, and consultations with RCA staff, minimal additional dedication is expected or assumed. This analysis, therefore, assumes that the prior agreement concerning dedications, summing to about 10,000 acres, will be secured over the next eight years and prior to the end of the current habitat protection period. Even if the implementation period were extended, no extra land dedication is forecast to occur.

As a result, and as shown in **Table 8**, a total of about <u>46,800 acres</u> of Additional Reserve Land acquisition is required by Local Permittees for MSHCP implementation once the forecast of dedications is incorporated. As shown in **Table 8**, the required average annual pace of habitat protection varies considerably under the different acquisition period extension scenarios, as described below: ¹⁹

- Baseline/No Extension Scenario. As currently structured, RCA is required to complete land acquisition by the end of Year 25 of Plan implementation in 2029. This provides nine (9) years to protect the 47,000 acres through direct land acquisition (distinct from the assumed dedications), an average annual acquisition pace of about 5,200 acres each year.
- **5-Year Extension.** With a 5-year extension to the acquisition period, the RCA would be required to complete land acquisitions by the end of Year 30 of Plan implementation in 2034. This provides fourteen (14) years to protect the 47,000 acres through direct land acquisition (distinct from the assumed dedications), an average annual acquisition pace of about 3,300 acres each year.
- 10-Year Extension. With a 10-year extension to the acquisition period, the RCA would be required to complete land acquisitions by the end of Year 35 of Plan implementation in 2039. This provides nineteen (19) years to protect the 47,000 acres through direct land acquisition (distinct from the assumed dedications), an average annual acquisition pace of about 2,500 acres each year.

¹⁹ As a point of reference, the historical pace of Local Permittee-driven habitat protection has been somewhat above 2,000 acres each year with availability of funding being an important determinant of the pace of acquisition. The pace of State/federal-driven acquisition has averaged about 1,000 acres each year.

• **15-Year Extension.** With a 15-year extension to the acquisition period, the RCA would be required to complete land acquisitions by the end of Year 40 of Plan implementation in 2044. This provides twenty-four (24) years to protect the 47,000 acres through direct land acquisition (distinct from the assumed dedications), an average annual acquisition pace of about 2,000 acres each year.

Table 8 Required Acquisition Acres to Achieve ARL Goals

		2020-End of Acquisition	Years	Annual Conservation	
Entity/Item	Through 2019	Period	Remaining	Acres Required	Total Acres
State/Federal	21,608	EXTENSION	9	2 024	56,00
State/Federal	21,608	34,392	9	3,821	56,00
Local					
HANS Dedication (1)	715	10,000	9	1,111	10,71
Net Local Acquisition	39,497	46,788	9	5,199	86,28
Total Local Conservation	40,212	56,788	9	6,310	97,00
State/Federal + Local = ARL Goal	61,820	91,180	9	10,131	153,00
	5 YEA	R EXTENSION			
State/Federal			14	2,457	56,00
Local					
HANS Dedication	See a	bove	14	714	10,71
Net Local Acquisition			14	3,342	86,28
Total Local Conservation			14	4,056	97,00
State/Federal + Local = ARL Goal			14	6,513	153,00
otate/i ederal + Local - ANE Goal			17	0,313	155,00
0 /	10 YE	AR EXTENSION		1.010	50.00
State/Federal			19	1,810	56,00
Local					
HANS Dedication	See a	bove	19	526	10,71
Net Local Acquisition			19	2,463	86,28
Total Local Conservation			19	2,989	97,00
State/Federal + Local = ARL Goal			19	4,799	153,00
	15 YEA	AR EXTENSION			
State/Federal			24	1,433	56,00
Local	_				
HANS Dedication	See a	bove	24 24	417 1,950	10,71
Net Local Acquisition					86,28
Total Local Conservation State/Federal + Local = ARL Goal			24	2,366	97,00 153,00
State/rederal + Local = ARL Goal			24	3,799	153,00
State/Federal	20 YE	AR EXTENSION	29	1 100	E6 00
State/Federal			29	1,186	56,00
Local		_			
HANS Dedication	See a	bove	29	345	10,71
Net Local Acquisition			29	1,613	86,28
Total Local Conservation			29	1,958	97,00
State/Federal + Local = ARL Goal			29	3,144	153,00

^{1.} About 10,000 acres of potential future land dedication is associated with a range of previously proposed projects. Based on historical information on actual, dedications agreements on proposed projects, current RCA policy, and consultations with RCA staff, minimal additional dedication is expected or assumed beyond these agreements. This analysis, therefore, assumes that the prior agreements concerning dedications will occur with future dedications summing to about 10,000 acres. The precise timing of these dedications is uncertain, but are assumed to occur over the next eight years. Average annual numbers in this table are shown distributed across the full remaining acquisition period of each extension scenario.

Shading indicates acreage to be acquired with fee revenue.

Sources: Western Riverside County Regional Conservation Authority; and Economic & Planning Systems, Inc.

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4. FORECASTS OF DEVELOPMENT, DEDICATION, FEE PAYMENT

Future development within Western Riverside County will both reduce land available for conservation while also serving as a primary funding mechanism for habitat acquisitions. This chapter identifies forecasts of future growth in Western Riverside County and develops an associated forecast of land development that is a key component of the fee calculation.

Historic Development and HCP Fees

The MSHCP anticipated that 13,000 to 14,000 residential units and about 370 commercial and industrial acres would be developed on average annually. Specifically, between 2005 and 2019, 206,000 residential units were expected in the Plan Area. A review of new units in the Plan Area indicates about 130,000 units were developed over the period (see **Figure 6**), about 37 percent below the forecast. ²⁰ While the substantial volatility in the real estate market over the period (including the housing boom, deep recession, and modest recovery) may explain some of this difference, the slower pace of development means that fee revenues have been similarly constrained relative to the original revenue projections.

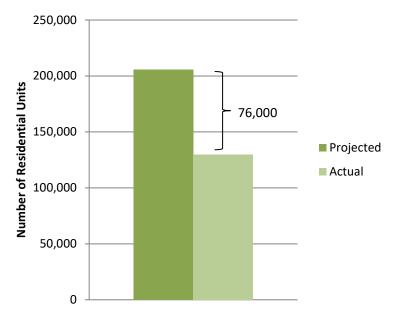


Figure 6 Residential Unit Development, Western Riverside County, 2005-2019

Source: California Department of Finance; MSHCP Projections

²⁰ Actual units developed have been derived from the California Department of Finance (DOF), Demographics Unit information through January 1, 2019. Note that the DOF reports data by city and for the entire Riverside County unincorporated area. Western Riverside's portion of the total unincorporated area has been derived based on the area's historic share of unincorporated County, taking into account the incorporations of new cities that occurred in Western Riverside County since MSHCP Plan adoption (Eastvale, Jurupa Valley, Menifee, and Wildomar).

Growth Projections

SCAG Forecasts in Context

The Southern California Association of Governments (SCAG) is a Metropolitan Planning Organization (MPO)²¹ representing six counties, 191 cities and more than 18 million residents. MPOs, such as SCAG are charged under California Senate Bill 375 with developing Sustainable Community Strategies (SCSs) as part of regional transportation plans. SCAG's SCS includes population, household, and job projections through 2040 by city and unincorporated area. SCAG consults with local governments within the region, including the Western Riverside Council of Governments (WRCOG) which represents Western Riverside County, to develop the projections. SCAG adopted the 2012-2040 Regional Transportation Plan/Sustainable Community Strategy (RTP/SCS) in 2016. The 2016 RTP/SCS forms the basis of the SCAG projections; EPS extrapolated an annual growth rate from the SCAG projections and, assuming consistent development trends through 2050, applied the rate in order to estimate development projections through 2050.

SCAG forecasts for the future, on an annualized basis, were compared with the MSHCP's original forecast along with historical information (when available) as described further below:

- Residential Development Forecast. Figure 7 shows, for Western Riverside County, the annual residential unit count for SCAG projections through 2050, MSHCP projections through 2029, and residential units produced in Western Riverside County between 2005 and 2019. As shown, the SCAG projections suggest about 8,750 units each. This is similar to the average annual historic pace of growth between 2005 and 2019 of about 9,260 units, but well below the original MSHCP projections of about 13,400 units each year. Based on the similarity between the historical average and the SCAG forecast, the SCAG forecast is considered a reasonable basis for determining the future pace of residential development and associated residential land development (based on assumed densities of development).
- year was converted into an annual gross amount of commercial/industrial development using the employment density and FAR assumptions used in the most recent Transportation Uniform Mitigation Fee (TUMF) update documents. As shown in **Figure 8**, this results in a forecast of about 690 acres of commercial/industrial land development each year (representing an overall average of about 21 jobs per acre of development), considerably above the original MSHCP projections of about 370 acres each year. The higher SCAG number, however, appears reasonable given recent and ongoing trends in Western Riverside County where substantial amounts of new logistics/distribution development have occurred covering substantial land areas and, as such, is considered reasonable as the basis of the future forecast of commercial/industrial land development.

²¹ Federal law requires that an urbanized area with a population of at least 50,000 be guided by a regional entity known as an MPO. California's Senate Bill 375 expands the role of the State's 18 MPOs to include regional plans that help the State reach its greenhouse gas reduction targets by encouraging compact development and new development near public transit.

Figure 7 New Housing Units per Year, SCAG and MSHCP Projections and Historic Production (2005-2019)

SCAG (2012-2040) and MSHCP Projections (2004-2029) and Historic Production (2005-2019)

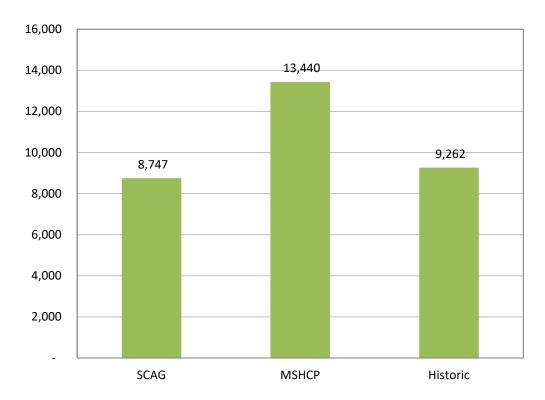


Figure 8 Newly Developed Commercial Acres per Year

SCAG (2012-2040) and MSHCP Projections



Note: SCAG job projections converted into acres by EPS

Forecasts for Fee Calculation

For this fee program update, the SCAG projections are considered a reasonable basis for forecasting future land development. Because all new development is expected to pay the mitigation fee, all of the forecasted household and job growth is converted into a land development forecast that is, in turn, used to calculate the mitigation fees. **Table 9** shows SCAG's overall projections for households and employment in Western Riverside County between 2012 and 2050, and **Table 10** shows the implied average annual land development rates, and, in turn, the overall level of residential and commercial/industrial land development that would be expected to occur through the end of the land acquisition period for each of the extension scenarios. As shown, all scenarios assume an overall average annual land development of 2,252 acres each year, including 693 acres in commercial/industrial land development and 1,558 acres in annual residential land development. ²³

- Baseline/No Extension Scenario. Under the no extension scenario, a total of 20,265
 <u>acres</u> of land development is expected to occur during the remaining Plan implementation
 period of nine (9) years and would pay the mitigation fees.
- **5-Year Extension**. Under the 5-year extension to the acquisition period, a total of <u>31,523</u> <u>acres</u> of land development is expected to occur during the remaining Plan implementation period of 14 years and would pay the mitigation fees.
- **10-Year Extension**. Under the 10-year extension to the acquisition period, a total of <u>42,782 acres</u> of land development is expected to occur during the remaining Plan implementation period of 19 years and would pay the mitigation fees.
- **15-Year Extension**. Under the 15-year extension to the acquisition period, a total of <u>54,040 acres</u> of land development is expected to occur during the remaining Plan implementation period of 24 years and would pay the mitigation fees.

²² Under the MSHCP, all new development is required to pay the mitigation fee and contribute to funding the implementation of the MSHCP except where specifically exempted in the Ordinance.

²³ The 1,558 acres of residential land development was derived based on the forecasted 8,747 residential units each year and assumptions concerning distribution by density category and an average density level. More specifically, consistent with the recent TUMF analysis assumptions, 70 percent of new residential units are assumed to be in the low density category (less than 8 units per acre) with an average of 4.5 units/acre, 20 percent are assumed to be the medium density category (8 to 16 units per acre) with an average of 10.8 units/acre, and 10 percent are assumed to be the high density category (over 16 units per acre) with an average of 24.4 units/acre. The unit per acre factors are consistent with those indicated in the Original Nexus Study. The overall implied average residential density is 5.6 units/gross acre.

Table 9 Projected Growth in Western Riverside County, through 2050

SCAG	Western Riverside MSHCP Plan A	
	Households	Employment
2012 2040 Projection 2050 Projection (1) New Households/Jobs Expected by 2050 Average Annual	530,970 775,882 863,350 332,380 8,747	463,833 869,792 1,014,777 550,944 14,499

⁽¹⁾ SCAG projections forecast growth through 2040. EPS assumes the annual growth rate from 2012 to 2040 remains constant through 2050 and applies the rate to an additional 10 years in order to project growth through 2050.

Sources: Southern California Association of Governments; Economic & Planning Systems, Inc.

Table 10 Projected Developed Acres in Western Riverside County, by Extension Scenario

		Western R	iverside MSI	HCP Plar	n Area	
SCAG -	Resi	dential	Non Reside	ential	Total	
	No Ex	tension				
Proportionate Share 2020-2028 ¹	78,722	Households	130,487	Jobs		
New Development to Acres ²						
Acres of New Development Through 2028	14,026	Acres	6,239	Acres	20,265 Ac	cres
Acres per Year	1,558	Acres	693	Acres	2,252 Ac	cres
	F Voca	Tytopolon				
Description of a Observation 0000 000 41		Extension				
Proportionate Share 2020-2034 ¹	122,456	Households	202,979	Jobs		
New Development to Acres ²						
Acres of New Development Through 2034	21,818	Acres	9,705	Acres	31,523 Ac	cres
Acres per Year	1,558	Acres	693	Acres	2,252 Ac	cres
	10 Year	Extension				
Proportionate Share 2020-2038 ¹	166,190	Households	275,472	Jobs		
New Development to Acres ²						
Acres of New Development Through 2038	29,611		13,171		42,782 Ac	
Acres per Year	1,558	Acres	693	Acres	2,252 Ac	cres
	15 Year	Extension				
Proportionate Share 2020-2043 ¹	209,924	Households	347,965	Jobs		
New Development to Acres ²						
Acres of New Development Through 2043	37.403	Δcres	16,637	Acres	54,040 Ac	ros
Acres per Year	- ,	Acres	•	Acres	2,252 Ac	
	,				, : : : :	

⁽¹⁾ SCAG forecasts from the 2016 Report have been used for all cities in Western Riverside County. The projections for the entire unincorporated area in Riverside have been split into just the Western part of the County through a review of WRCOG's recent proportion of unincorporated growth, compared to the whole County.

Sources: California Department of Finance; US Census Bureau; Southern California Association of Governments; Economic & Planning Systems, Inc.

⁽²⁾ Conversion from household projections to residential acres of developed land is based on expected development mix and average residential density by land use type, with an average residential density of 5.6 DUAC. Similarly, conversion from job projections to nonresidential acres of developed land is based on distribution of jobs by workspace type and average employment density by land use type, with an average nonresidential density of 21 jobs per land acre. Residential density assumptions are based on data from the Census and California Department of Finance; Employment density assumptions are based on SCAG data

5. MSHCP IMPLEMENTATION COSTS

This chapter describes the analysis and assumptions that underpin the estimation of the total remaining MSHCP implementation costs in 2019 dollars. Key cost factors evaluated include land costs, management and monitoring costs, administration and professional services costs, and endowment costs. Together these cost components form the total MSHCP implementation costs. Because the duration allowed for land acquisition and endowment establishment affect several of these cost items, distinct total implementation cost estimates are provided for all scenarios (i.e., Baseline/ No Extension and the three extension scenarios).

Land Costs

Planning-level estimates of the per acre values associated with potential Additional Reserve Land (ARL) acquisitions are a critical input into the estimation of total land acquisition costs associated with Plan implementation. Land acquisition costs represented the majority of the original estimates of MSHCP implementation costs. This chapter provides planning-level estimates of per acre land conservation costs in 2019-dollar terms based on available information. In combination with assumptions concerning the characteristics of the Additional Reserve Lands to be acquired and potential levels of dedication, the per acre land value estimates drive the estimate of overall land acquisition costs.

Actual per acre habitat conservation costs may vary from the average planning-level estimates presented in this chapter for a number of reasons, including differences in the specific characteristics of the actual parcels acquired as well as fluctuations in economic, real estate, and land market conditions over time. Individual transactions will require appraisals to establish their value at the time of acquisition based on parcel characteristics and pertinent market conditions at the time of appraisal. Over time, per acre and overall cost estimates typically change for a number of reasons as discussed further in **Chapter 9**.

MSHCP/Original Nexus Study

The initial adoption of the mitigation fees was based on a nexus study completed in July 2003 that included a land valuation analysis that was completed in December 2002. The land valuation analysis assumed the acquisition of vacant and unentitled lands in the Criteria Cells. The land value analysis provided planning-level estimates of per acre land values by grouped land use designation and by Area Plan. Planning-level land value estimates were based on sales comparables. The land value estimates indicated per acre land values that were primarily driven by differentiation in land use category. The land use designation categories represent groupings of the broad number of land use designations present in the Study Area. **Table 11** summarizes the per-acre land value ranges and resulting averages. Based on this analysis, an overall weighted average of \$13,100 per acre was applied in the MSHCP financial sections in the Original Nexus Study.

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Table 11 Per-Acre Land Value Estimates—2003 Dollars (2003 Nexus Study)

Land Use Designation	Value Range	Resulting Average *
Open Space	\$2,500 to \$10,000 per acre	\$ 8,000 per acre
Rural/Agricultural	\$5,000 to \$25,000 per acre	\$11,000 per acre
Community Development	\$20,000 to \$80,000 per acre	\$45,000 per acre
Overall (1)	\$2,500 to \$80,000 per acre	Varied (1)

^{*} Per acre values rounded to the nearest 1,000.

Source: Original 2003 Nexus Study

RCA Experience to Date

Table 12 summarizes average RCA land acquisition costs to date. Including land purchased shortly before the MSHCP was adopted through the end of 2018, costs for Local Permittee land acquisitions summed to \$352.5 million in nominal dollar terms, an average of \$9,400 per acre. However, for the year 2018, about 2,100 acres were acquired at the higher average per acre cost of \$13,200 per acre.

Table 12 Local Conservation Costs Through 2018

Item	Pre-MSHCP through 2018	2018
Total Acres Acquired (1)	37,547	2,066
Total Cost (millions)	\$352.5	\$27.4
Cost per Acre (Nominal \$s)	\$9,400	\$13,200

⁽¹⁾ Includes all acres purchased; does not include acres conserved via easement.

Sources: Western Riverside County Regional Conservation Authority MSHCP Annual Report 2018; Economic & Planning Systems, Inc.

To date, the overall historical level of per acre land acquisition expenditures is well below the original 2004 per acre land value estimates. The cost of RCA acquisitions during this timeframe were kept relatively low by concentrating more on lower cost parcels (larger parcels in remote areas with limited development potential). In 2018, as in the future, the average cost per acre is expected to be higher than this historical average due to the characteristics of land still needing to be acquired.

New Land Value Analysis and Conclusions

New 2019 per acre land value estimates were developed based on recent historical transactions as reported in the sales comparables sections of appraisals conducted for RCA acquisitions. This data set provided a substantial inventory of over 150 land sales between 2012 and 2017 that supported conclusions concerning per acre land values by key land value characteristic.

⁽¹⁾ Reported overall average land value per acre depends on mix of land types. Number varies by documents, though \$13,100 per acre was overall value applied in the MSHCP financing sections.

Similar to the Original Nexus Study, land values were determined to be substantially affected by land use designation and by parcel size. Land values were developed for twelve different value categories based on combinations of three land use designations and four different size ranges.

Based on the land valuation data and detailed GIS analysis by RCA staff, parcels were divided into three groups of development potential based on their land use designation: ²⁴

- **Open Space.** Low development potential land use designations included open space, rural mountainous, and rural residential.
- **Rural**. Medium development potential land use designations include agriculture and rural communities land use designations.
- **Community Development**. High development potential land use designations include all community development designations, including residential, non-residential, and other community development designations.

In addition to these three land use designation groupings reflecting different levels of development potential, parcels were also divided by parcel size. The land value information indicated a per acre value distinction between the following parcels sizes:

- Parcels less than 5 acres.
- Parcels between 5 and 20 acres.
- Parcels between 20 and 80 acers.
- Parcels over 80 acres.

Based on the analysis of the sales comparables, **Table 13** shows the planning level per acre land value by land use designation grouping/size range in 2017 dollars.

Table 13 Planning Level Per Acre Land Value Estimates by Category

	Per Acre Land Value (\$ / Acre) ¹				
Land Use Designation	Less than 5 Acres	5 - 19.99 Acres	20 - 79.99 Acres	80 + Acres	
Open Space	\$11,761	\$5,091	\$3,949	\$1,866	
Rural	\$33,363	\$11,553	\$8,337	\$5,531	
Community Development	\$177,414	\$76,050	\$72,369	\$24,335	

^{1.} Most land sale comparables used for pricing are from 2013 to 2017 and were converted to 2017 dollars using BLS CPI adjustments for the Los Angeles-Riverside-Orange County area.

Sources: Economic & Planning Systems, Inc.

Economic & Planning Systems, Inc.

²⁴ RCA staff developed a consistent set of land use designation categories across different jurisdictions in the Study Area for the purposes of this study. These formed the basis of the development potential categories.

The average land value per acre for future RCA acquisitions is dependent on the different land values per acre as well as the expected distribution of future acquisitions. The actual land to be acquired is uncertain and is dependent on the availability of land through willing sellers. However, based on the conservation needs by Area Plan, the suitable land available for protection, as well as the specific linkages that must be created between the core reserve areas, RCA staff provided sufficient information for EPS to develop a general expression of parcels by characteristic to support the land value analysis. An illustration of the expected distribution of acres by land use designation and size range is provided in **Table 14**.

Table 14 Illustrative Distribution of Land Acquisitions by Land Use and Size

Conservation Scenario (Acres) (1)					
Land Use Designation	Less than 5 Acres	5 - 19.99 Acres	20 - 79.99 Acres	80 + Acres	Total
Open Space	535	1,531	3,626	4,654	10,346
Rural	1,901	17,241	26,802	29,428	75,371
Community Development	<u>638</u>	<u>1,707</u>	<u>3,613</u>	<u>4,384</u>	10,342
Total Purchases by Acreage	3,074	20,479	34,041	38,466	96,059

^{1.} Conservation scenario analysis was conducted in 2017 so overall acres acquired more than those required as of end of 2019.

Sources: RCA; Economic & Planning Systems, Inc.

Applying the per acre land values in **Table 13** to the illustrative land conservation distribution in **Table 14** provides an estimate of the aggregate land value, supporting the estimate of the average planning level land value per acre in 2017-dollar terms (see **Table 15**).

Table 15 Aggregate Land Value of Remaining Areas (2017 dollars)

Land Comparables by Acres					
Land Use Designation	Less than 5 Acres	5 - 19.99 Acres	20 - 79.99 Acres	80 + Acres	Total
Open Space	\$6,292,633	\$7,795,633	\$14,319,467	\$8,682,942	\$37,090,674
Rural	\$63,411,345	\$199,183,566	\$223,437,526	\$162,777,034	\$648,809,470
Community Development	<u>\$113,198,910</u>	<u>\$129,817,405</u>	<u>\$261,456,200</u>	<u>\$106,682,740</u>	<u>\$611,155,254</u>
Total Cost of Purchases	\$182,902,887	\$336,796,603	\$499,213,192	\$278,142,716	\$1,297,055,399
% of Total	14%	26%	38%	21%	100%

^{1.} This table is the average land value per acre multiplied by the Conservation Scenario. See Table E-1 and E-2.

Sources: RCA; Economic & Planning Systems, Inc.

As shown in **Table 15**, the aggregate land value of the approximately 96,000 acres remaining to be protected as part of the MSHCP as of 2017 is estimated at about \$1.3 billion in 2017 dollars. This represents an average land value of about \$13,500 per acre. To convert this land value into 2019 dollars terms (similar to the rest of the analysis), EPS indexed the value to about \$14,300 per acre in 2019-dollar terms.²⁵

Other Costs—Administration, Management, and Monitoring

Program administration, reserve management, and reserve monitoring are required functions that require annual funding. The forecasts for each of these cost categories are described below.

Administration and Professional Service Costs

The Western Riverside County Regional Conservation Authority is responsible for implementing the MSHCP. Since 2004, RCA staff members have directed the acquisition, management, and monitoring of the local portion of the Additional Reserve Land (ARL) required by the MSHCP, monitored State and federal Public/Quasi-Public lands and the State and federal portions of the ARL, and undertook all of the administrative tasks associated with maintaining the permit.

Costs categorized in this fee study under MSHCP administration include all RCA staff costs and other costs like building rents and average expenditures on non-acquisition related professional services that are not anticipated to vary as the size of the ARL increases. The forecast for the acquisition period assumes that these costs will remain at approximately \$4.2 million in constant 2019 dollars, increasing with inflation but not increasing as the size of the ARL grows (see **Table 16**). This includes salaries and benefits of about \$2.3 million annually and about \$1.5 million in professional services, supplies, and other costs.

²⁵ Two years of inflation (2017 – 2019) based on by BLS CPI adjustment for Riverside-San Bernardino-Ontario Metro Area.

Table 16 Administrative and Professional Services Costs

Expenditures	RCA FY16/17- 18/19 3-Year Average of Actuals	CPI Adjusted to 2019\$ ¹
Total Salaries and Employee Benefits	\$2,219,261	\$2,288,495
Professional Services and Supplies Environmental Legal Auditing, Accounting & Financial Services GIS Services Personnel Services Real Estate Services	\$394,320 \$101,717 \$10,000 \$13,920 \$653,774	\$406,621 \$104,891 \$10,312 \$14,354 \$674,169
Other Services Subtotal	<u>\$247,979</u> \$1,421,710	<u>\$255,715</u> \$1,466,062
Other Charges	<u>\$388,145</u>	\$400,254
Total	\$4,029,116	\$4,154,811

⁽¹⁾ Three year average CPI-adjusted by one year, the average of the annual CPI adjustments for the three years.

Sources: Western Riverside County Regional Conservation Authority: Bureau of Labor Statistics;

Management and Monitoring

Reserve Management

The MSHCP describes reserve management activities focused on maintaining and improving habitat conditions and ecosystem functions including habitat and landscape-based activities and species-specific activities. For the purposes of this analysis, the average per acre cost estimate for Reserve Management as reported in the RCA actual spending for FY 2018-19 has been used to inform cost projections through the full acquisition period. Because RCA staff and relevant contractors have indicated that the current spending on staff capacity is not adequate to accomplish necessary management with existing land holdings, additional staffing and associated expenditures have been added to the current reserve management expenditures. Specifically, three new full time equivalent (FTE) positions are added to the current 2019 spending for reserve management. Overall, the 2019 per acre reserve management cost of \$25.39 per acre was adjusted to \$32.70 per acre (2019 dollars) to account for three new mid-level park ranger FTEs. While as of the end of 2019 about 40,200 acres were under management, ultimately, reserve management activities will cover the entire 97,000 acres to be acquired by the RCA.

Biological Monitoring

The purpose of biological monitoring is to provide Reserve Managers with information and data upon which reserve management decisions will be made. According to the MSHCP, the monitoring program must provide "sufficient, scientifically reliable data for Reserve Managers to assess the MSHCP's effectiveness at meeting resource objectives and achieving or maintaining a

healthy MSHCP Conservation Area in perpetuity." Unlike the RCA's reserve management activities which are limited to local ARL acres, the RCA will ultimately be responsible for monitoring all 500,000 acres of the reserve lands mandated under the MSHCP. The acreage currently being monitored totals roughly 408,000 acres. For the purposes of this analysis, the \$1.1 million annual cost estimate based on FY 2018-19 actual spending was used to inform cost projections through the full acquisition period. Because current staff capacity is not adequate to accomplish necessary biological monitoring with existing land holdings, to address the additional land acquisitions, two new full time equivalent (FTE) positions are added to the current 2019 spending for reserve monitoring. The 2019 per acre reserve monitoring cost of \$2.67 was adjusted to \$3.01 (2019 dollars) to account for two new entry-level biologist FTEs. (see **Table 17**). This constant dollar per acre cost was assumed to apply throughout the period of implementation.

Reserve Management and Biological Monitoring Costs

Table 17 summarizes estimated per acre costs for reserve management and monitoring in 2019 dollars. Applying these per acre costs (in 2019 dollars) to current acreage under management and monitoring projects results in annual costs of \$1.32 million and \$1.23 million, respectively. The annual reserve management and biological monitoring costs increase as new acquisitions occur.

Table 17 Management and Monitoring Anticipated Costs in 2004 and 2019 Dollars

ltem	Actual FY 2019 Spending
Reserve Management ¹	
Acres under Management	40,212
Existing Reserve Management Expenses	\$1,021,000
Additional Staff Capacity Required ³	\$294,000
Total Reserve Management Expenses	\$1,315,000
\$/Acre	\$32.70
\$/Acre without additional staff capacity	\$25.39
Biological Monitoring ²	
Acres being Monitored	408,820
Existing Biological Monitoring Expenses	\$1,092,000
Additional Staff Capacity Required ³	\$140,000
Total Biological Monitoring Expenses	\$1,232,000
\$/Acre	\$3.01
\$/Acre without additional staff capacity	\$2.67

^{1.} Reserve Management costs include Parks & Open Space contract fees, maintenance of motor vehicles, and HOA dues.

Sources: Western Riverside County Regional Conservation Authority; and Economic & Planning Systems, Inc.

Endowment Funding

The overall permit period was set at 75 years, ending in 2079. To cover ongoing management and monitoring costs beyond the duration when mitigation fees will be collected, the establishment of a non-depleting endowment is required. In other words, the endowment must be sufficient such that expected average interest revenues (after inflation and transaction costs) can cover the ongoing costs associated with administration, management and monitoring in perpetuity. This section summarizes the estimated cost of establishing this endowment under the different scenarios. A key assumption is that the endowment must be fully established by

^{2.} Biological Monitoring costs include SAWA contract fees, office and computer supplies, training, private mileage reimbursement, building rent, and rental vehicles/fuel.

^{3.} Current staff capacity is not sufficient to accomplish necessary management and monitoring. An Expanded staff capacity scenario envisions adding 3 FTE midlevel park rangers to Reserve Management and 2 FTE entry-level biologists to Reserve Monitoring, with salaries and benfits of \$98,000 and \$70,000

the end of the land acquisition period as it is assumed that no more mitigation fees will be collected at that time. ²⁶

For the purposes of this analysis, we have assumed that habitat management and habitat monitoring costs continue in full, while administration costs are reduced by half following the end of the land acquisition period. All of these costs then continue in perpetuity. As a result and as shown in **Table 18**, the endowment is sized to cover the expected annual management and monitoring costs and 50 percent of the administration costs, totaling \$6.8 million (2019 dollars) once all lands have been acquired.

Table 18 Annual Implementation Cost Estimate (2019\$)

Cost Categories	Annual Cost by Last Year of Land Acquisition Period	Adjustment	Annual Post-Land Acquisition Cost
Ongoing Habitat Management	\$3,172,063	100%	\$3,172,063
Ongoing Habitat Monitoring	\$1,506,776	100%	\$1,506,776
Administration ¹	\$4,154,811	50%	\$2,077,406
Total	\$8,833,650		\$6,756,244

^{1.} Adminsitration includes salaries and benefits, accounting, auditing and reporting, contracts, etc.. Assumes less administration is needed following the land acquisition period; ongoing adminsitrative needs include oversight, auditing and reporting, and board staffing.

Sources: Western Riverside County Regional Conservation Authority; and Economic & Planning Systems, Inc.

Consistent with many regional habitat conservations plans, the average annual net, real (allowing for inflation and institutional fees) interest rate is assumed to be three (3) percent. The Under all extension scenarios, the total required endowment funding is \$225.2 million. Because the longer extension periods provide more time for the accrual of interest revenues, the net endowment cost (that must be funded by mitigation fees) is different for each scenario. Table 19 shows the consistent total endowment funding required by scenario as well as the different levels of aggregate endowment interest and associated net endowment funding requirement. For a detailed time-series accounting of endowment funding by extension scenario, see Appendix II.

²⁶ It is important to note that the RCA has collected a distinct set of endowment funds for situations where specific conservation activities are required over-and-above the core activities covered by this endowment calculation.

²⁷ This assumes that the implementing entity can use investment vehicles that may be not be typical for Riverside County.

Table 19 Endowment Funding (2019\$), by Extension Scenario

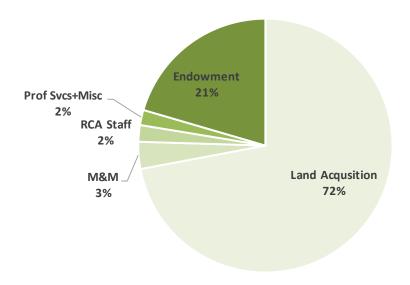
ltem	No Extension	5-Year Extension	10-Year Extension	15-Year Extension
Total Endowment Funding Required (Less) Endowment Interest Net Endowment Funding Required	\$225,208,133	\$225,208,133	\$225,208,133	\$225,208,133
	(\$25,695,187)	(\$40,679,628)	(\$54,846,349)	(\$68,206,990)
	\$199,512,947	\$184,528,506	\$170,361,785	\$157,001,144

Sources: Western Riverside County Regional Conservation Authority; and Economic & Planning Systems, Inc.

Total Implementation Costs

Implementation costs include land costs, administrative and professional services expenses, management and monitoring costs, and the required net endowment funding. The remaining MSHCP implementation costs, as described in detail in the preceding sections, are all estimated in 2019 constant dollar terms. Under the Baseline/ No Extension scenario, as shown in **Figure 9**, the \$702 million in estimated land acquisition costs make up 72 percent of the total implementation cost of \$974 million. Administrative costs total about 4 percent of total costs, management and monitoring sum to 3 percent of total implementation costs, and the endowment constitutes 21 percent of total costs.

Figure 9 Comparison of Costs by Category



Total implementation costs vary by extension scenario. Land acquisition costs are the same for all scenarios. Administrative, management and monitoring costs increase the longer the acquisition period is extended, but the endowment funding required decreases the longer the

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acquisition period is extended. As shown in **Table 20**, total implementation costs range from \$890 million to \$967 million depending on the extension period. Although total costs over time increase with longer extension periods the per-year implementation costs decrease with longer extension periods, as shown in **Table 21**. For a detailed time-series of all implementation costs excepting the endowment, see **Appendix I**.

Table 20 Total Implementation Costs (2019**), by Extension Scenario

Local Permittee MSHCP Implementation Costs	Total for 2020 - 2028 No Extension	Total for 2020 - 2033 5-Yr Extension	Total for 2020 - 2038 10-Yr Extension	Total for 2020 - 2043 15-Yr Extension
Land 1	\$701,931,902	\$701,931,902	\$701,931,902	\$701,931,902
Management & Monitoring	\$33,582,193	\$51,646,790	\$69,711,387	\$87,775,983
RCA Staff ²	\$20,596,453	\$32,038,927	\$43,481,401	\$54,923,875
Professional Services and Supplies ²	\$13,194,561	\$20,524,873	\$27,855,185	\$35,185,497
Loan Repayment 3	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000
Other Costs 24	\$3,602,285	\$5,603,554	\$7,604,824	\$9,606,093
Net Endowment Funding Required	\$199,512,947	<u>\$184,528,506</u>	\$170,361,785	\$157,001,144
Total Costs	\$974,420,341	\$998,274,552	\$1,022,946,483	\$1,048,424,494

^{1.} Land value estimates at \$14,288 per acre in 2019 dollar terms.

NOTE: In some cases numbers may not perfectly sum due to rounding.

Sources: Western Riverside County RCA; Economic & Planning Systems, Inc.

^{2.} RCA Administrative Costs are based on a three year average of FY 2016-17 through FY 2018-19 actual costs, adjusted to 2019 dollars

^{3.} RCA has "Other Long Term Obligations" totaling \$5 million, which was a loan received from the County in FY 2012/13 and is now payable in increments of \$1 million starting in FY 2018.

^{4.} Includes rents and all other miscellaneous expenses.

^{*} All costs are provided in constant 2019 dollar terms. Costs will change over time due to inflation and other factors. These changes will be addressed through the fee indexing/ updating process that will include automatic inflation-indexed fee changes annually based on the regional Consumer Price Index and periodic comprehensive updates to the Nexus Study.

Table 21 Average Annual Implementation Costs (2019\$), by Extension Scenario

Local Permittee MSHCP Implementation Costs	Average Annual				
	2020 - 2028 No Extension	2020 - 2033 5-Yr Extension	2020 - 2038 10-Yr Extension	2020 - 2043 15-Yr Extension	
Land ¹	\$77,992,434	\$50,137,993	\$36,943,784	\$29,247,163	
Management & Monitoring	\$3,731,355	\$3,689,056	\$3,669,020	\$3,657,333	
RCA Staff ²	\$2,288,495	\$2,288,495	\$2,288,495	\$2,288,495	
Professional Services and Supplies ²	\$1,466,062	\$1,466,062	\$1,466,062	\$1,466,062	
Loan Repayment ³	\$222,222	\$142,857	\$105,263	\$83,333	
Other Costs ^{2 4}	\$400,254	\$400,254	\$400,254	\$400,254	
Net Endowment Funding Required	<u>\$22,168,105</u>	<u>\$13,180,608</u>	\$8,966,410	\$6,541,714	
Total Costs	\$108,268,927	\$71,305,325	\$53,839,289	\$43,684,354	

^{1.} Land value estimates at \$14,288 per acre in 2019 dollar terms.

NOTE: In some cases numbers may not perfectly sum due to rounding.

Sources: Western Riverside County RCA; Economic & Planning Systems, Inc.

^{2.} RCA Administrative Costs are based on a three year average of FY 2016-17 through FY 2018-19 actual costs, adjusted to 2019 dollars.

^{3.} RCA has "Other Long Term Obligations" totaling \$5 million, which was a loan received from the County in FY 2012/13 and is now payable in increments of \$1 million starting in FY 2018.

^{4.} Includes rents and all other miscellaneous expenses.

MSHCP Forecast of Non-Fee Revenues

The MSHCP forecast an array of revenue sources, in addition to fee revenue, supporting the conservation program. These sources were anticipated to total about 44 percent of the revenue for the program, including:

- Transportation funding includes the Measure A sales tax which is authorized through 2039 and other transportation funding sources such as the Transportation Uniform Mitigation Fees (TUMF) charged on new development. Note that the MSHCP envisioned up to \$121 million of Measure A money to the HCP.
- Other infrastructure projects funding from this source was not quantified in the MSHCP but reflected the expectation that local public construction projects such as schools, administrative facilities, libraries, jails, and other projects like flood control and utility projects would mitigate the construction through the payment of a per-acre fee.²⁸ Since MSHCP adoption, the standard contribution has been three to five percent of total project costs.
- Landfill contributions Landfill tipping fees have been used in the County since the 1990 for conservation programs. Under county permitting of landfills, the County has committed to divert portions of tipping fees to MSHCP implementation.

Table 22 and **Figure 10** summarizes the revenue forecasts under the MSHCP. Including the fee revenues, these sources totaled \$1.07 billion or an estimated average almost \$43 million per year for 25-years (in 2004 dollars). Excluding fee revenues, a total of \$18.84 million in annual revenues were forecast, including Measure A funding, \$10 million each year from other transportation projects, and \$4.0 million from land fill contributions.

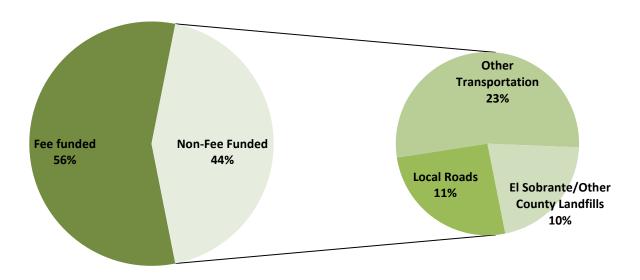
As described further below, at this point, the average annual funding from non-fee revenues sources are well below the MSCHP forecast. Measure A, a voter-approved ½ cent sales tax measure did provide substantial funding as envisioned (though is now fully used/ allocated) and, collectively, the other non-fee funding sources are well beyond what was originally envisioned.

²⁸ See Chapter 8.5.1 Funding Sources in the MSHCP.

Table 22 2004 MSHCP Anticipated Funding Sources

	Estimate	% of Avg	/Yr (millions over 25
MSHCP Anticipated Funding Source	(millions)	Total	years)
Fee Funded Sources:			
Cities and County Development Mitigation Fees	\$539.6	50%	\$21,584,000
Density Bonus Fees	\$66.0	6%	\$2,640,000
Non-Fee Funded Sources	\$605.6		\$24,224,000.0
Public Funding Sources			
Local Roads (Measure A)	\$121.0	11%	\$4,840,000
Other Transportation	\$250.0	23%	\$10,000,000
Other infrastructure Projects	unknown	0%	\$0
El Sobrante Landfill	\$90.0	8%	\$3,600,000
County Landfills	\$10.0	1%	\$400,000
Eagle Mountain Landfill	unknown	0%	\$0
New Regional funding	<u>unknown</u>	0%	<u>\$0</u>
Non-Fee Funded Sources	\$471.0		\$18,840,000
Total, Local Funds	\$1,076.6	100%	\$43,064,000

Figure 10 2004 MSHCP Anticipated Funding Sources



New Forecast of Non-Fee Revenues

Non-fee revenues to the RCA are projected to be \$6.85 million annually in 2019 dollars. This estimate was derived from a line by line review of the major revenue items for a 3-year period from FY 2016-17 to FY 2018-19, projections by collection entities (e.g., TUMF revenue), and recent dynamics likely to affect the revenue source (e.g., greater diversion of trash to recycling

will likely reduce tipping fees). The estimates have been inflated from a three-year average to 2019 dollars, as detailed in **Table 23**.

Table 23 Annual Non-Fee Revenue Projection (2019\$s)

	• •	•
	RCA FY16/17- 18/19	
Non-Fee Revenue Item	3-Year Average of	CPI Adjusted to
	Actuals	2019\$
Turn on outstien Mitigration 1		
Transportation Mitigation ¹	\$950,000	¢070 627
TUMF Revenue-Developer Fees Subtotal	\$950,000 \$950,000	<u>\$979,637</u> \$979,637
Subtotal	φ 9 50,000	Ф919,031
Tipping Fee	\$3,865,728	\$3,986,326
Public Project Mitigation		
PSE Mitigation Fee ²	NA	\$500,000
Other Gov MSHCP Infrastructure	\$284,570	\$293,448
Other Gov MSHCP Civic Projects	\$93,629	\$96,550
Flood Control District	<u>\$293,084</u>	\$302,227
Subtotal	\$671,283	\$1,192,225
Other Revenue		
Interest and Other Sources	\$467,073	\$481,644
Rents	\$80,531	\$83,043
Joint Project Review Fees	<u>\$124,762</u>	<u>\$128,654</u>
Subtotal	\$672,365	\$693,341
Total Revenue	NA	\$6,851,529

^{1.} All Measure A funding was provided prior to 2020 and the associated obligations have been met.

Sources: Western Riverside County Regional Conservation Authority; Economic & Planning Systems, Inc.

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^{2.} Participating Special Entities fees. This does not include Developer Mitigation Fees. These fees vary widely year over year, \$500,000 is used as an annual average per the recommendation of RCA staff.

7. MITIGATION FEE CALCULATION

The revised Local Development Mitigation Fee is based on a generally similar methodology to the Original Nexus Study that ensures the fee level is proportional to the development impact. This methodology looks at the remaining conservation requirements associated with Local Permittee obligations under the MSHCP and associated Incidental Take Permit and Implementing Agreement, determines the remaining Local Permittee implementation cost, subtracts out reasonable estimates of non-fee revenues and other contributions, to determine the overall feefunding obligation. This obligation is then divided among the new development forecast to determine the required mitigation fee. In others words, the original 2003 and updated 2020 Local Development Mitigation Fee estimates are the outcome of the following formula (the 2003 and 2020 Nexus Studies differ in their process of allocating funding required between land uses):

1. Implementation Costs

minus

2. Non-Fee Funding

equals

3. Outstanding Funding Required

divided by

4. Development Forecast

equals

5. Local Development Mitigation Fee Schedule

Table 24 summarizes the estimated Net Implementation Costs, Expected Acres of Development, and the associated per gross acre mitigation fee. As shown, the average mitigation fee per gross acre decreases with each extension as similar levels of net implementation costs are spread across more development. **Tables 25** through **28** provide the detailed calculations that determine the total net MSHCP implementation costs shown in **Table 24**. As noted in **Chapter 1**, for residential development, the per-gross-acre fee is translated into a per-unit fee schedule for administrative continuity.

Table 24 MSHCP Implementation Costs and Per Acre Mitigation Fees

Fee Per Acre	No Extension	5-Year Extension	10-Year Extension	15-Year Extension
Net Cost	\$912,756,583	\$902,353,150	\$892,767,438	\$883,987,805
Acres of Development				
Residential	14,026	21,818	29,611	37,403
Nonresidential	6,239	9,705	13,171	16,637
Total	20,265	31,523	42,782	54,040
Mitigation Fee per Acre	\$45,041	\$28,625	\$20,868	\$16,358

Sources: Southern California Association of Governments; Western Riverside County RCA; Economic & Planning Systems, Inc.

Table 25 Recommended Fee Level—No Extension

ltem	Total for 2020 - 2029 (Years 17 - 25)	9 yrs	Average Annual	% of Total Cost/ Funding Need
Local Permittee Land Requirements				
Preservation Requirement	56,788 acres		6,310 acres	na
(less) HANS Dedication	10,000 a		1,111 acres	na
Local Permittee Acquisition	46,788 a	acres	5,199 acres	na
Local Permittee MSHCP Implementation Costs				
Land (1)	\$701,931,902		\$77,992,434	72.0%
Management & Monitoring	\$33,582,193		\$3,731,355	3.4%
RCA Staff (2)	\$20,596,453		\$2,288,495	2.1%
Professional Services and Supplies (2)	\$13,194,561		\$1,466,062	1.4%
Loan Repayment (3)	\$2,000,000		\$222,222	0.2%
Other Costs (2) (4)	\$3,602,285		\$400,254	0.4%
Net Endowment Funding Required	\$199,512,947		\$22,168,105	20.5%
Total Costs	\$974,420,341		\$108,268,927	100.0%
Offsetting Revenues (5) (exc. Private Development Mitigation) Public Project Mitigation (6) Transportation Mitigation (7) Tipping Fees Other Revenues (8) Total Selected Revenues	\$10,730,025 \$8,816,731 \$35,876,934 \$6,240,068 \$61,663,758		\$1,192,225 \$979,637 \$3,986,326 \$693,341 \$6,851,529	1.4% 1.1% 4.6% <u>0.8%</u> 8.0%
Funding Required from Private Development Mitiga	ition			
Net Cost	\$912,756,583		\$101,417,398	93.7%
Mitigation Fee Estimates (per gross acre of developm	nent)			
Growth Projection:				
Development	2020 - 2028		Annual	
Residential Units	79,000		8,778	
Residential Acres	14,026		1,558	
Non-Residential Acres	6,239		693	
Total Acres	20,265		2,252	
Mitigation Fee	\$45,041	per acre		

⁽¹⁾ Land value estimates at \$14,288 per acre in 2019 dollar terms plus a 5% transaction cost.

Sources: MSHCP; RCA; Economic & Planning Systems, Inc.

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⁽²⁾ RCA Administrative Costs are based on a three year average of FY 2016-17 through FY 2018-19 actual costs, adjusted to 2019 dollars.

⁽³⁾ RCA has "Other Long Term Obligations" totaling \$2 million, which was a loan received from the County in FY 2012/13 and is now payable in increments of \$1 million over the course of two years.

⁽⁴⁾ Includes rents and all other miscellaneous expenses.

⁽⁵⁾ RCA Revenues are based on a three year average of FY 2016-17 through FY 2018-19 actual costs, adjusted to 2019 dollars.

⁽⁶⁾ Includes Flood Control District, PSE mitigation payments, and other government MSHCP infrastructure & civic project revenues.

⁽⁷⁾ Includes TUMF fees.

⁽⁸⁾ Includes interest and other sources, rents, and joint project review fees.

Table 26 Recommended Fee Level—5-Year Extension

	Totalfor			0/ -5
	Total for 2020 - 2034		Average	% of Total Cost
ltem	(Years 17 - 30)	14 yrs	Average	Funding Nea
lem	(Tears 17 - 30)	14 yıs	Ailliuai	runding Net
Local Permittee Land Requirements				
Preservation Requirement	56,788 ad		4,056 acres	na
(less) HANS Dedication	<u>10,000</u> ac		<u>714</u> acres	na
Local Permittee Acquisition	46,788 ad	cres	3,342 acres	na
Local Permittee MSHCP Implementation Cost	s			
Land (1)	\$701,931,902		\$50,137,993	70.3%
Management & Monitoring	\$51,646,790		\$3,689,056	5.2%
RCA Staff (2)	\$32,038,927		\$2,288,495	3.2%
Professional Services and Supplies (2)	\$20,524,873		\$1,466,062	2.1%
Loan Repayment (3)	\$2,000,000		\$142,857	0.2%
Other Costs (2) (4)	\$5,603,554		\$400,254	0.6%
Net Endowment Funding Required	\$184,528,506		\$13,180,608	18.5%
Total Costs	\$998,274,552		\$71,305,325	100.0%
Offsetting Revenues (5)				
(exc. Private Development Mitigation)				
Public Project Mitigation (6)	\$16,691,150		\$1,192,225	2.1%
Transportation Mitigation (7)	\$13,714,915		\$979,637	1.7%
Tipping Fees	\$55,808,564		\$3,986,326	6.9%
Other Revenues (8)	<u>\$9,706,772</u>		<u>\$693,341</u>	<u>1.2%</u>
Total Selected Revenues	\$95,921,402		\$6,851,529	11.8%
Funding Required from Private Development	Mitigation			
Net Cost	\$902,353,150		\$64,453,796	90.4%
Mitigation Fee Estimates (per gross acre of dev	velopment)			
Growth Projection:				
Development	2020 - 2033		Annual	
Residential Units (4.2 DU/Acres)	122,456		8,747	
Residential Acres	21,818		1,558	
Non-Residential Acres	9,705		693	
Total Acres	31,523		2,252	

⁽¹⁾ Land value estimates at \$14,288 per acre in 2019 dollar terms plus a 5% transaction cost.

Mitigation Fee

Sources: MSHCP; RCA; Economic & Planning Systems, Inc.

\$28,625 per acre

⁽²⁾ RCA Administrative Costs are based on a three year average of FY 2016-17 through FY 2018-19 actual costs, adjusted to 2019 dollars.

⁽³⁾ RCA has "Other Long Term Obligations" totaling \$2 million, which was a loan received from the County in FY 2012/13 and is now payable in increments of \$1 million over the course of two years.

⁽⁴⁾ Includes rents and all other miscellaneous expenses.

⁽⁵⁾ RCA Revenues are based on a three year average of FY 2016-17 through FY 2018-19 actual costs, adjusted to 2019 dollars.

⁽⁶⁾ Includes Flood Control District, PSE mitigation payments, and other government MSHCP infrastructure & civic project revenues.

⁽⁷⁾ Includes TUMF fees.

 $[\]begin{tabular}{ll} (8) Includes interest and other sources, rents, and joint project review fees. \end{tabular}$

Table 27 Recommended Fee Level—10-Year Extension

	Total for			% of
Marin	2020 - 2039	40	Average	Total Cost/
Item	(Years 17 - 35)	19 yrs	Annual	Funding Need
Local Permittee Land Requirements				
Preservation Requirement	56,788 ad	cres	2,989 acres	na
(less) HANS Dedication	<u>10,000</u> ad	cres	<u>526</u> acres	na
Local Permittee Acquisition	46,788 ad	cres	2,463 acres	na
Local Permittee MSHCP Implementation Costs				
Land (1)	\$701,931,902		\$36,943,784	68.6%
Management & Monitoring	\$69,711,387		\$3,669,020	6.8%
RCA Staff (2)	\$43,481,401		\$2,288,495	4.3%
Professional Services and Supplies (2)	\$27,855,185		\$1,466,062	2.7%
Loan Repayment (3)	\$2,000,000		\$105,263	0.2%
Other Costs (2) (4)	\$7,604,824		\$400,254	0.7%
Net Endowment Funding Required	\$170,361,785		\$8,966,410	16.7%
Total Costs	\$1,022,946,483		\$53,839,289	100.0%
Offsetting Revenues (5) (exc. Private Development Mitigation)				
Public Project Mitigation (6)	\$22,652,275		\$1,192,225	2.7%
Transportation Mitigation (7)	\$18,613,099		\$979,637	2.2%
Tipping Fees	\$75,740,195		\$3,986,326	8.9%
Other Revenues (8)	\$13,173,47 <u>6</u>		\$693,341	<u>1.5%</u>
Total Selected Revenues	\$130,179,045		\$6,851,529	15.3%
Funding Required from Private Development Mitig	gation			
Net Cost	\$892,767,438		\$46,987,760	87.3%
Mitigation Fee Estimates (per gross acre of develop	oment)			
Growth Projection:				
Development	2020 - 2038		Annual	
Residential Units (4.2 DU/Acres)	166,000		8,737	
Residential Acres	29,611		1,558	
Non-Residential Acres	13,171		693	
Total Acres	42,782		2,252	
Mitigation Fee	\$20,868 p	er acre		

⁽¹⁾ Land value estimates at \$14,288 per acre in 2019 dollar terms plus a 5% transaction cost.

Sources: MSHCP; RCA; Economic & Planning Systems, Inc.

⁽²⁾ RCA Administrative Costs are based on a three year average of FY 2016-17 through FY 2018-19 actual costs, adjusted to 2019 dollars.

⁽³⁾ RCA has "Other Long Term Obligations" totaling \$2 million, which was a loan received from the County in FY 2012/13 and is now payable in increments of \$1 million over the course of two years.

⁽⁴⁾ Includes rents and all other miscellaneous expenses.

⁽⁵⁾ RCA Revenues are based on a three year average of FY 2016-17 through FY 2018-19 actual costs, adjusted to 2019 dollars.

⁽⁶⁾ Includes Flood Control District, PSE mitigation payments, and other government MSHCP infrastructure & civic project revenues.

⁽⁷⁾ Includes TUMF fees.

⁽⁸⁾ Includes interest and other sources, rents, and joint project review fees.

Table 28 Recommended Fee Level—15-Year Extension

	Total for		A	% of
Item	2020 - 2044 (Years 17 - 40)	24 yrs	Average Annual	Total Cost/ Funding Need
	(10010 11 10)	21 310	rumaai	T unumg 11000
Local Permittee Land Requirements				
Preservation Requirement	56,788 a		2,366 acres	na
(less) HANS Dedication	<u>10,000</u> a		<u>417</u> acres	na
Local Permittee Acquisition	46,788 a	cres	1,950 acres	na
Local Permittee MSHCP Implementation Costs				
Land (1)	\$701,931,902		\$29,247,163	67.0%
Management & Monitoring	\$87,775,983		\$3,657,333	8.4%
RCA Staff (2)	\$54,923,875		\$2,288,495	5.2%
Professional Services and Supplies (2)	\$35,185,497		\$1,466,062	3.4%
Loan Repayment (3)	\$2,000,000		\$83,333	0.2%
Other Costs (2) (4)	\$9,606,093		\$400,254	0.9%
Net Endowment Funding Required	\$157,001,144		\$6,541,714	15.0%
Total Costs	\$1,048,424,494		\$43,684,354	100.0%
Offsetting Revenues (5)				
(exc. Private Development Mitigation)				
Public Project Mitigation (6)	\$28,613,400		\$1,192,225	3.2%
Transportation Mitigation (7)	\$23,511,283		\$979,637	2.6%
Tipping Fees	\$95,671,825		\$3,986,326	10.7%
Other Revenues (8)	<u>\$16,640,181</u>		\$693,341	<u>1.9%</u>
Total Selected Revenues	\$164,436,689		\$6,851,529	18.4%
Funding Required from Private Development Miti	gation			
Net Cost	\$883,987,805		\$36,832,825	84.3%
Mitigation Fee Estimates (per gross acre of develop	pment)			
Growth Projection:				
Development	2020 - 2043		Annual	
Residential Units	210,000		8,750	
Residential Acres	37,403		1,558	
Non-Residential Acres	16,637		693	
Total Acres	54,040		2,252	
Mitigation Fee	\$16,358 p			

⁽¹⁾ Land value estimates at \$14,288 per acre in 2019 dollar terms plus a 5% transaction cost.

Sources: MSHCP; RCA; Economic & Planning Systems, Inc.

⁽²⁾ RCA Administrative Costs are based on a three year average of FY 2016-17 through FY 2018-19 actual costs, adjusted to 2019 dollars.

⁽³⁾ RCA has "Other Long Term Obligations" totaling \$2 million, which was a loan received from the County in FY 2012/13 and is now payable in increments of \$1 million over the course of two years.

⁽⁴⁾ Includes rents and all other miscellaneous expenses.

⁽⁵⁾ RCA Revenues are based on a three year average of FY 2016-17 through FY 2018-19 actual costs, adjusted to 2019 dollars.

⁽⁶⁾ Includes Flood Control District, PSE mitigation payments, and other government MSHCP infrastructure & civic project revenues.

⁽⁷⁾ Includes TUMF fees.

⁽⁸⁾ Includes interest and other sources, rents, and joint project review fees.

8. MITIGATION FEE ACT (NEXUS) FINDINGS

Mitigation fees are utilized in California to finance public facilities necessary to mitigate impacts stemming from new development. In 1987, the California Legislature adopted the Mitigation Fee Act to provide a framework for the application and administration of such fees. Current prevailing practice among the majority of approved and permitted regional multiple-species Habitat Conservation Plans is that any habitat mitigation fees are to be adopted by the relevant jurisdictions (cities and Counties) consistent with the Mitigation Fee Act. ²⁹ As discussed further in **Chapter 9**, the adoption of fees under the Mitigation Fee Act includes a number of auditing and reporting requirements.

The Mitigation Fee Act, defined in California Government Code Sections 66000 to 66025, requires all public agencies to document five findings when establishing or increasing a fee as a condition for new development. These findings were made when the Western Riverside County MSHCP Local Development Mitigation Fees were first justified and established.³⁰

This Chapter of the Western Riverside Habitat Conservation Plan Nexus Fee Study was prepared to describe how the proposed increase in the Local Development Mitigation Fee satisfies the five statutory findings required by the Mitigation Fee Act and is based on the appropriate nexus between new development and the imposition of a mitigation fee. The five statutory findings required for the establishment of a mitigation fee are summarized in the sections below and supported by the technical analysis in the prior chapters of this Study.

Purpose of Fee

Identify the purpose of the fee. (66001(a)(1))

The purpose of the Local Development Mitigation Fee is to contribute to the funding required to implement the MSCHP and, as a result, help maintain the incidental take permits for new private and public development in Western Riverside County under the federal and State Endangered Species Acts. Maintaining the incidental take permit is necessary to allow for future development, and without the development community paying for the cost of the MSHCP, individual applicants will need to apply independently for development approval under federal and State law if the project impacts a threaten or endangered species. The federal Endangered Species Act specifically requires that the applicant for incidental take permit "ensure that adequate funding for the plan will be provided." ³¹ In addition, the Local Development Mitigation Fee helps provide the regional benefit of streamlined economic development in Western Riverside County as well as

²⁹ In addition to the current Western Riverside County habitat mitigation fee, see also the Coachella Valley habitat mitigation fee, the San Joaquin County Multi-Species Habitat Conservation and Open Space Fee, and the East Contra Costa County HCP/NCCP mitigation fee.

³⁰ See the Final Mitigation Nexus Report for the Western Riverside County Multiple Species Habitat Conservation Plan, published July 1, 2003.

³¹ See Section 1539(a)(2)Biii of the federal Endangered Species Act.

the provision of contiguous open spaces that will serve as a community amenity to residents, workers, and visitors.

Use of Fee Revenues

Identify the use to which the fee is to be put. If the use is financing public facilities, the facilities shall be identified. That identification may, but need not, be made by reference to a capital improvement plan as specific in Section 65403 or 66002, may be made in applicable general or specific plan requirements, or may be made in other public documents that identify the public facilities for which the fee is charged. (66001(a)(2)).

The MSHCP is the public document that outlines the actions required as a whole and the particular set of actions required by the Local Permittees (and the Regional Conservation Agency as their agent) to obtain incidental take permits—associated with State and federal Endangered Species Act requirements—for new public and private development in Western Riverside County. Failure to meet the requirements of the MSHCP will result in an inability to obtain or maintain incidental take permits through the MSHCP, which would require future development to secure individual take authorization if the project impacts a threaten or endangered species.

Revenues from the Local Development Mitigation Fee will be used, in conjunction with other local and regional funding sources, to fund the conservation actions identified as the responsibility of Local Permittees in the MSHCP. The revenue from the Local Development Mitigation Fee will be used to help fund the appropriate habitat acquisition (land acquisition and associated transaction costs), maintenance and monitoring of habitat land (preserve management, monitoring, and adaptive management), and program management, administration, and oversight activities and costs.

Chapter 3 of this report describes the Local Permittee conservation requirements, progress to date, and the remaining actions required under the MSHCP.

Relationship

Determine how there is a reasonable relationship between the fee's use and the type of development project on which the fee is imposed. (66001(a)(3)).

The implementation of the MSHCP, and the mitigation fee as a fundamental part of it, will benefit all new development by mitigating their collective impacts on covered species and associated habitat. All new public and private development in the Plan area will affect habitat and species either directly, indirectly, or as a cumulative effect. New infrastructure development, for example, in addition to its direct effects, will support new development on other parcels and other locations in the Plan Area. Similarly, new private development will require new infrastructure and also result in additional demand for new developments through linkages—for

³² Consistent with the interpretation applied to the majority of permitted and approved regional, multiple-species Habitat Conservation Plans in California and guidance from RCA Counsel, the Local Development Mitigation Fee is assumed to fund its proportionate share (as determined by the technical analysis and constrained by the statutory requirements) of applicable MSHCP implementation costs including, but also limited to, habitat acquisition costs (and associated transaction costs), the costs of managing and monitoring the habitat preserves in perpetuity, and the administrative and other costs of managing the overall program.

example, the need for new housing to accommodate new workers at commercial developments or the need for new retail developments to serve new residents at residential developments. In other words, all new development in Western Riverside County will benefit from the incidental take permits obtained through the MSHCP and via the use of the mitigation fee revenues.

In addition, the incidental take permits are necessary to permit any future development within the Plan Area, and in order to obtain or maintain such incidental take permits, the MSHCP must be fully funded. Because funding the MSHCP is required in order to allow for future development under the MSHCP, there is a direct relationship between the proposed use of the mitigation fee and development within the Plan Area.

Need

Determine how there is a reasonable relationship between the need for the public facility and the type of development project on which the fee is imposed. (66001(a)(4)).

Without new development, no MSHCP would be necessary and no further habitat conservation would be required under the federal and State Endangered Species Acts. To allow for any future development under the Plan, the MSHCP must be fully funded. New development in the Plan Area, as noted above, will directly, indirectly, or cumulatively affect species and habitat in Western Riverside County. Because of this, development of the MSHCP was undertaken to provide a regional, streamlined approach to benefit future development of all types in Western Riverside County, including the development and improvements envisioned under the numerous General Plans and the Regional Transportation Improvement Program. The requirements of the MSHCP (habitat acquisition, management and monitoring, program administration) are a direct result of the regional approach to mitigation that is engendered by all new development in the Plan Area under the pertinent environmental regulations. Meeting the requirements of the MSHCP is necessary to obtain the necessary federal authorization to develop within the Plan Area.

Proportionality

Determine how there is a reasonable relationship between the amount of the fee and the cost of the public facility or portion of the public facility attributable to the development on which the fee is imposed. (66001(b)).

The MSHCP includes detailed conservation requirements based on the scientific evaluations that form the basis of the MSHCP. Based on these evaluations, conservation responsibilities were allocated between the Local Permittees and other agencies, such as the State and federal governments. The Local Development Mitigation Fee appropriately provides funding towards the fulfillment of the Local Permittee conservation requirements. Furthermore, the Local Permittee obligations are not fully funded through the Local Development Mitigation Fee revenues. Other local and regional funding sources, such as the Measure A sales tax and tipping fees, provide additional mitigation and/or offsetting revenues that reduce the overall cost allocation to the Local Development Mitigation Fee Program. In addition, consistent with the relationship between new development in Western Riverside County and the need for the public facilities (conservation program) described above, proportional attribution between new development is ensured

through the determination of a consistent per gross acre Local Development Mitigation Fee. ³³ As a result, the Local Development Mitigation Fee level calculations are carefully determined to fund only the proportionate (or less than) conservation costs attributable to the new development on which the fee is imposed and to allocate the fee levels proportionally across all new development. It is this process of careful calculation based on the requirements of the MSHCP that is the subject of a substantial portion of this Nexus Study (see **Chapters 2** through **7**).

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³³ Determining habitat mitigation fees on a gross acre basis is the clearest way of ensuring proportionate cost allocations among new developments and is a common practice among adopted Habitat Conservation Plans. For purposes of implementation/administrative consistency, for residential uses, the per-gross-acre fee is translated into per unit fees for different density categories.

9. FEE IMPLEMENTATION

The revised Local Development Mitigation Fee must be implemented consistent with the MSHCP (and associated Incidental Take Permit and Implementing Agreement) as well as the California Mitigation Fee Act. A detailed set of guidance is included in the Fee Implementation Handbook to support clarity and specificity in the implementation of the updated fee program by Local Permittees. The sections below summarize some of the key implementation and administration actions to be consistent with the requirements.

Adoption of Revised LDMF

- Consistent with the MSHCP and associated documents, each Local Permittee (i.e., all participating jurisdictions) must adopt an updated LDMF ordinance and a fee resolution establishing the revised fee level as prescribed by the Mitigation Fee Act.
- Consistent with the Mitigation Fee Act, the revised ordinance and associated fee resolution will become effective after a public hearing and 60 days.
- RCA Legal Counsel will prepare a Fee Update Ordinance and Resolution to facilitate the consistent adoption of the updated LDMF by Local Permittees.

Securing Supplemental Funding

The revised Local Development Mitigation Fee is set at the level that would cover the Local Permittee cost obligations once expected non-fee revenues are subtracted out. To the extent any discounts/exemptions are provided to new Western Riverside County development below the updated fee level, additional funding will be required to backfill the fee revenue losses. To the extent, these revenues do not make up for any fee discounts provided, other sources of funding will need to be sought by the RCA and the Local Permittees to fulfill their Plan obligations. At the same time, if new substantial funding sources become available to the RCA for Local Permittee obligations, the funding required through fees may decrease, in turn reducing the required fee levels through a new update.

Annual Review

The Mitigation Fee Act (at Gov. C. §§ 66001(c), 66006(b)(1)) stipulates that each local agency that requires payment of a fee make specific information available to the public annually within 180 days of the last day of the fiscal year. In this case, the RCA can play this role on behalf of the Local Permittees. This information includes the following:

- A description of the type of fee in the account.
- The amount of the fee (the mitigation fee schedule).
- The beginning and ending balance of the fund.
- The amount of fees collected and interest earned.
- Identification of the improvements constructed.
- The total cost of the improvements constructed.
- The fees expended to construct the improvement.
- The percentage of total costs funded by the fee.

If sufficient fees have been collected to fund specific improvement cost, the agency must specify the approximate date for the cost of that improvement. Because of the dynamic nature of growth and MSHCP implementation costs and consistent with current practice, the RCA should continue to monitor progress towards MSHCP goals. The overall adequacy of the fee revenues and other available funding in meeting these goals should be reviewed annually.

Surplus Funds

The Mitigation Fee Act also requires that if any portion of a fee remains unexpended or uncommitted in an account for 5 years or more after deposit of the fee, the RCA, acting for the Local Permittees, shall make findings once each year (1) to identify the purpose to which the fee is to be put, (2) to demonstrate a reasonable relationship between the fee and the purpose for which it was charged, (3) to identify all sources and amounts of funding anticipated to complete financing of incomplete improvements, and (4) to designate the approximate dates on which the funding identified in (3) is expected to be deposited into the appropriate fund (§66001(d)).

If adequate funding has been collected for specific investments, an approximate date must be specified as to when the cost of the investment will be incurred. If the findings show no need for the unspent funds, or if the conditions discussed above are not met, and the administrative costs of the refund do not exceed the refund itself, the local agency that has collected the funds must refund them (Gov. C §66001(e)(f)).

Annual and Periodic Updates

Consistent with the current practice, the Fee Ordinance should allow an automatic annual adjustment to the fees based on the Riverside-San Bernardino-Ontario, CA Consumer Price Index (CPI) or a similar inflation factor. In addition, a more comprehensive update should be conducted required periodically. The Nexus Study and the technical information it contains should be reviewed periodically by the RCA (every five years is recommended) to identify any necessary refinements to the Local Development Mitigation Fees to ensure adequate funding to implement the MSHCP. Under certain circumstances, the RCA may wish to conduct a Nexus Study update sooner than after five years. For example, to the extent there are significant and unexpected changes in implementation costs, in the level of non-fee funding, and/ or the level of fee-paying private development over time, a more immediate fee update may be appropriate.

APPENDIX I:

Detailed Time Series of Implementation Costs



All Implementation Costs Over Time - No Extension

Part								End of:				
Control Cont	Habitat Lands/	Factors		17	18	19	20	21	22	23	24	25
Care	Cost Items			2020	2021	2022	2023	2024	2025	2026	2027	2028
Care	ACRES											
Care												
1.600 1.60												
Total Local						·				-		
Stane Fed	•											_
Total Acquisition Cumulative Sale Sa	Total Local			3,000	3,000	3,000	3,000	5,000	3,000	3,000	3,000	0,310
Concision Commission Concision Continuis C	State/Fed					<u>3,821</u>	<u>3,821</u>		<u>3,821</u>			
Sealer				8,881	8,881	8,881	8,881	8,881	8,881	8,881	8,881	10,131
State Part State				45.070	50 222	EE 204	CO 454	05 544	70.574	75.000	00.000	07.000
Consider 12.60 2.00 3.750 5.00 12.60 12.				•				•	·	-	,	•
Management and Monitoring Costs Reserve Number Rese				·				· ·	·		·	•
Page	Total											
Page	Management and Manitaring Coo	4										
State Foderial POP			l Responsibility									
State Fed Stat												
ARL RCA State 25.429 (29.251 33.072 38.893 40.715 44.526 (8.857 52.179 55.000 10001		· ·	Č									
Total				·	· ·						•	
Second POPP		RCA	State						· · · · · · · · · · · · · · · · · · ·			
POP				307,429	311,231	313,072	310,093	322,713	320,330	330,337	334,179	336,000
Total 111,522 117,832 124,141 130,451 136,761 143,071 149,360 155,690 162,000 Total Acres under RCA Management Management Total Acres under RCA Management Managemen	PQP	RCA	Non-RCA Local	65,000	65,000	65,000	65,000	65,000	65,000	65,000	65,000	65,000
Total Acres under RCA Management Total Acres under RCA Monitoring 46,522 52,82 59,141 65,451 71,761 78,071 84,380 90,690 97,000 COSTS (all constant 2019 dollars) Local ARLA, Annual \$14,288 \$/Acre \$72,294,065		RCA	RCA									
Coal Acres under RCA Monitoring 418,951 429,082 439,213 449,344 459,476 469,607 479,738 489,869 500,000	Total			111,522	117,832	124,141	130,451	136,761	143,071	149,380	155,690	162,000
Coal Acres under RCA Monitoring 418,951 429,082 439,213 449,344 459,476 469,607 479,738 489,669 500,000	Total Acres under RCA Managem	ent		46.522	52.832	59.141	65.451	71.761	78.071	84.380	90.690	97.000
Land Acquisition Costs	•			·	•	·	•	,	•		·	
Land Acquisition Costs	00070 (-11											
Local ARL, Annual S14,288 S/Acre S72,294,065 S72,2												
Land Transaction Costs 5% of acquisition costs 5% of acquisition Costs 5% of acquisition Costs 575,908,768 575,908,7		\$14,28	88 \$/Acre	\$72,294,065	\$72,294,065	\$72,294,065	\$72,294,065	\$72,294,065	\$72,294,065	\$72,294,065	\$72,294,065	\$90,154,055
Namagement and Monitoring Costs S32,70 S/Acre S1,521,340 S1,727,681 S1,727,681 S1,934,021 S2,140,361 S2,346,702 S2,553,042 S2,759,382 S2,965,723 S3,172,063 S3,17												
Management and Monitoring Costs Management, Annual Management, Annual Management, Annual Management, Cumulative \$32.70 \$/Acre \$1,521,340 \$1,727,681 \$1,934,021 \$2,140,361 \$2,346,702 \$2,346,702 \$2,553,042 \$2,759,382 \$2,965,723 \$3,172,063 \$1,000,000 \$1,000,00	•											
Management, Annual \$3.70 \$/Acre \$1,521,340 \$1,727,681 \$1,934,021 \$2,140,361 \$2,346,702 \$2,553,042 \$2,759,382 \$2,965,723 \$3,172,063 Management Cumulative \$1.521,340 \$1,521,340 \$3,249,021 \$5,183,042 \$7,323,403 \$9,670,105 \$12,223,147 \$14,982,530 \$17,948,252 \$21,120,315 \$1.000,000 \$1,000,000 \$1,400,0254 \$400,254 \$400,254 \$0.0254 \$1.000,567 \$1.000,800 \$1.000,670 \$1.	Local, ARL, Cumulative			\$75,908,768	\$151,817,536	\$227,726,304	\$303,635,072	\$379,543,840	\$455,452,608	\$531,361,376	\$607,270,144	\$701,931,902
Management Cumulative \$1,521,340 \$3,249,021 \$5,183,042 \$7,323,403 \$9,670,105 \$12,223,147 \$14,982,530 \$17,948,252 \$21,120,315 \$1,000,000 \$1,000,	Management and Monitoring Cos	<u>ts</u>										
Monitoring, Annual \$3.01 \$/Acre \$1,262,531 \$1,293,061 \$1,323,592 \$1,354,122 \$1,384,653 \$1,415,184 \$1,445,714 \$1,476,245 \$1,506,776 Monitoring Cumulative \$1,262,531 \$2,555,592 \$3,879,184 \$5,233,306 \$6,617,959 \$8,033,143 \$9,478,857 \$10,955,102 \$12,461,878 \end{array} \$1,0955,102 \$1,461,902 \$1,461,		\$32.7	70 \$/Acre									
Monitoring Cumulative \$1,262,531 \$2,555,592 \$3,879,184 \$5,233,306 \$6,617,959 \$8,033,143 \$9,478,857 \$10,955,102 \$12,461,878 Endowment Costs Net Endowment Funding, Annual Net Endowment Funding, Cumulative \$22,168,105 \$22,168,105 \$22,168,105 \$22,168,105 \$22,168,105 \$22,168,105 \$22,168,105 \$22,168,105 \$22,168,105 \$22,168,105 \$110,840,526 \$133,008,631 \$155,176,736 \$177,344,842 \$199,512,947 Administrative Costs 2 \$2 \$2,288,495 <td>Management Cumulative</td> <td></td> <td></td> <td>\$1,521,340</td> <td>\$3,249,021</td> <td>\$5,183,042</td> <td>\$7,323,403</td> <td>\$9,670,105</td> <td>\$12,223,147</td> <td>\$14,982,530</td> <td>\$17,948,252</td> <td>\$21,120,315</td>	Management Cumulative			\$1,521,340	\$3,249,021	\$5,183,042	\$7,323,403	\$9,670,105	\$12,223,147	\$14,982,530	\$17,948,252	\$21,120,315
Monitoring Cumulative \$1,262,531 \$2,555,592 \$3,879,184 \$5,233,306 \$6,617,959 \$8,033,143 \$9,478,857 \$10,955,102 \$12,461,878 Endowment Costs Net Endowment Funding, Annual Net Endowment Funding, Cumulative \$22,168,105 \$22,168,105 \$22,168,105 \$22,168,105 \$22,168,105 \$22,168,105 \$22,168,105 \$22,168,105 \$22,168,105 \$22,168,105 \$110,840,526 \$133,008,631 \$155,176,736 \$177,344,842 \$199,512,947 Administrative Costs 2 \$2 \$2,288,495 <td>Monitoring, Annual</td> <td>\$3.0</td> <td>01 \$/Acre</td> <td>\$1,262,531</td> <td>\$1,293,061</td> <td>\$1,323,592</td> <td>\$1,354,122</td> <td>\$1,384,653</td> <td>\$1,415,184</td> <td>\$1,445,714</td> <td>\$1,476,245</td> <td>\$1.506.776</td>	Monitoring, Annual	\$3.0	01 \$/Acre	\$1,262,531	\$1,293,061	\$1,323,592	\$1,354,122	\$1,384,653	\$1,415,184	\$1,445,714	\$1,476,245	\$1.506.776
Net Endowment Funding, Annual \$22,168,105	<u> </u>	φοιο	οι φ <i>ι</i> πιοιο									
Net Endowment Funding, Annual \$22,168,105												
Net Endowment Funding, Cumulative \$22,168,105 \$44,336,210 \$66,504,316 \$88,672,421 \$110,840,526 \$133,008,631 \$155,176,736 \$177,344,842 \$199,512,947 Administrative Costs 2 Endowment Funding, Cumulative \$2,288,495 \$2,2				\$22.469.40E	¢22.169.10E	¢22.169.10E	¢22.169.10E	\$22.469.40E	\$22.169.10E	¢22.169.10E	¢22.169.105	\$22.469.40E
Administrative Costs		re										
RCA Staff Costs \$2,288,495 \$2				, , ,	, , , , , ,	, , , , ,	, , ,	* -,,-	*,,	,, -,	, , , , , , ,	,,. ,.
Professional Services \$1,466,062												
Loan Repayment ³ \$1,000,000 \$1,000,000 \$0												
Other \$400,254 <t< td=""><td>•</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	•											
Total Annual \$5,154,811 \$5,154,811 \$4,154,81												
TOTAL ALL COSTS TOTAL Annual \$106,015,555 \$106,252,426 \$105,489,297 \$105,726,168 \$105,963,039 \$106,199,910 \$106,436,781 \$106,673,652 \$125,663,513												
TOTAL Annual \$106,015,555 \$106,252,426 \$105,489,297 \$105,726,168 \$105,963,039 \$106,199,910 \$106,436,781 \$106,673,652 \$125,663,513	Cumulative Costs											
TOTAL Annual \$106,015,555 \$106,252,426 \$105,489,297 \$105,726,168 \$105,963,039 \$106,199,910 \$106,436,781 \$106,673,652 \$125,663,513	TOTAL ALL COSTS											
				\$106,015.555	\$106,252.426	\$105,489.297	\$105,726.168	\$105,963.039	\$106,199.910	\$106,436,781	\$106,673.652	\$125,663.513

^{1.} All local land conserved to date, including all HANS dedications to date, are captured in the year 17 number.

^{2.} RCA Administrative Costs are based on a three year average of FY 2016-17 through FY 2018-19 actual costs, adjusted to 2019 dollars.

^{3.} Annual administrative costs decrease in year 19 due to assumption that loan repayment is completed.

All Implementation Costs Over Time – 5 Year Extension

										End of:						
Habitat Lands/ Cost Items	Factors		17	18	19	20	21	22	23	24	25	26	27	28	29	30
COSt Items			2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
ACRES																
Land Acuisition Costs Land Acquisition (Annual)																
Local			4,056	4,056	4,056	4,056	4,056	4,056	4,056	4,056	4,056	4,056	4,056	4,056	4,056	4,056
(less) HANS/JPR Dedications			<u>-1,250</u>	<u>-1,250</u>	<u>-1,250</u>	<u>-1,250</u>	<u>-1,250</u>	<u>-1,250</u>	<u>-1,250</u>	<u>-1,250</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Total Local			2,806	2,806	2,806	2,806	2,806	2,806	2,806	2,806	4,056	4,056	4,056	4,056	4,056	4,056
State/Fed			<u>2,457</u>	<u>2,457</u>	<u>2,457</u>	<u>2,457</u>	<u>2,457</u>	<u>2,457</u>	<u>2,457</u>	<u>2,457</u>	<u>2,457</u>	<u>2,457</u>	<u>2,457</u>	<u>2,457</u>	<u>2,457</u>	<u>2,457</u>
Total			5,263	5,263	5,263	5,263	5,263	5,263	5,263	5,263	6,513	6,513	6,513	6,513	6,513	6,513
Land Acquisition (Cumulativ Local ¹	e)		42.040	45,825	48,631	51,437	54,243	57,050	E0.0E0	62,662	66,719	70,775	74,831	78,887	82,944	97 000
State/Fed			43,018 24,065	45,825 26,521	28,978	31,434	33,891	36,347	59,856 38,804	62,662 41,261	43,717	70,775 46,174	48,630	76,667 51,087	53,543	87,000 56,000
Local - HANS/JPR Dedications	3		<u>1,250</u>	2,500	<u>3,750</u>	5,000	6,250	<u>7,500</u>	<u>8,750</u>	10,000	10,000	10,000	10,000	10,000	10,000	<u>10,000</u>
Total			68,333	74,846	81,359	87,871	94,384	100,897	107,410	113,923	120,436	126,949	133,461	139,974	146,487	153,000
Management and Monitoring	<u> Costs</u>															
Reserve Summary	<i>-</i>															
	Financia Monitoring	al Responsibility Management														
State/ Federal	Worldoning	wanagement														
PQP	RCA	State/ Fed	282,000	282,000	282,000	282,000	282,000	282,000	282,000	282,000	282,000	282,000	282,000	282,000	282,000	282,000
ARL Total	RCA	State	24,065 306,065	26,521 308,521	<u>28,978</u> 310,978	31,434 313,434	<u>33,891</u> 315,891	36,347 318,347	38,804 320,804	41,261 323,261	<u>43,717</u> 325,717	46,174 328,174	48,630 330,630	<u>51,087</u> 333,087	<u>53,543</u> 335,543	<u>56,000</u> 338,000
<u>Local</u>			000,000	000,021	010,010	010,404	010,001	010,047	020,004	020,201	020,717	020,174	000,000	000,007	000,040	000,000
PQP	RCA	Non-RCA Local	65,000	65,000	65,000	65,000	65,000	65,000	65,000	65,000	65,000	65,000	65,000	65,000	65,000	65,000
ARL Total	RCA	RCA	<u>44,268</u> 109,268	<u>48,325</u> 113,325	<u>52,381</u> 117,381	<u>56,437</u> 121,437	60,493 125,493	64,550 129,550	<u>68,606</u> 133,606	<u>72,662</u> 137,662	<u>76,719</u> 141,719	<u>80,775</u> 145,775	<u>84,831</u> 149,831	<u>88,887</u> 153,887	<u>92,944</u> 157,944	<u>97,000</u> 162,000
Total			100,200	110,020	117,301	121,431	125,455	123,330	133,000	107,002	141,713	140,770	143,031	100,007	107,544	102,000
Total Acres under RCA Mana	•		44,268	48,325	52,381	56,437	60,493	64,550	68,606	72,662	76,719	80,775	84,831	88,887	92,944	97,000
Total Acres under RCA Moni	toring		415,333	421,846	428,359	434,871	441,384	447,897	454,410	460,923	467,436	473,949	480,461	486,974	493,487	500,000
COSTS (all constant 2019 do	llars)															
Land Acquisition Costs Local, ARL, Annual	\$14,288	\$/Acre	\$40,096,188	\$40,096,188	\$40,096,188	\$40,096,188	\$40,096,188	\$40,096,188	\$40,096,188	\$40,096,188	\$57,956,178	\$57,956,178	\$57,956,178	\$57,956,178	\$57,956,178	\$57,956,178
Land Transaction Costs		of acquisition costs	\$2,004,809	\$2,004,809	\$2,004,809	\$2,004,809	\$2,004,809	\$2,004,809	\$2,004,809	\$2,004,809	\$2,897,809	\$2,897,809	\$2,897,809	\$2,897,809	\$2,897,809	\$2,897,809
Total, Land Acquisition Costs			\$42,100,997	\$42,100,997	\$42,100,997	\$42,100,997	\$42,100,997	\$42,100,997	\$42,100,997	\$42,100,997	\$60,853,987	\$60,853,987	\$60,853,987	\$60,853,987	\$60,853,987	\$60,853,987
Local, ARL, Cumulative			\$42,100,997	\$84,201,995	\$126,302,992	\$168,403,990	\$210,504,987	\$252,605,985	\$294,706,982	\$336,807,979	\$397,661,967	\$458,515,954	\$519,369,941	\$580,223,928	\$641,077,915	\$701,931,902
Management and Monitoring																
Management, Annual Management Cumulative	\$32.70	\$/Acre	\$1,447,647 \$1,447,647	\$1,580,295 \$3,027,942	\$1,712,942 \$4,740,884	\$1,845,589 \$6,586,474	\$1,978,237 \$8,564,710	\$2,110,884 \$10,675,595	\$2,243,532 \$12,919,126	\$2,376,179 \$15,295,305	\$2,508,826 \$17,804,131	\$2,641,474 \$20,445,605	\$2,774,121 \$23,219,726	\$2,906,768 \$26,126,494	\$3,039,416 \$29,165,910	\$3,172,063 \$32,337,973
Management Cumulative			\$1,447,047	Ф 3,027,942	Ф 4,740,004	\$0,500,474	фо,304,710	\$10,675,595	\$12,919,126	\$15,295,305	\$17,004,131	\$20,445,605	φ23,219,720	\$20,120,494	\$29,165,910	φ32,337,973
Monitoring, Annual	\$3.01	\$/Acre	\$1,251,627	\$1,271,254	\$1,290,880	\$1,310,507	\$1,330,134	\$1,349,761	\$1,369,388	\$1,389,015	\$1,408,641	\$1,428,268	\$1,447,895	\$1,467,522	\$1,487,149	\$1,506,776
Monitoring Cumulative			\$1,251,627	\$2,522,880	\$3,813,761	\$5,124,268	\$6,454,402	\$7,804,163	\$9,173,551	\$10,562,566	\$11,971,207	\$13,399,476	\$14,847,371	\$16,314,893	\$17,802,041	\$19,308,817
Endowment Costs																
Net Endowment Funding, Annu Net Endowment Funding. Cum			\$13,180,608	\$13,180,608	\$13,180,608	\$13,180,608 \$53,733,430	\$13,180,608	\$13,180,608	\$13,180,608	\$13,180,608 \$105,444,860	\$13,180,608	\$13,180,608 \$134,806,076	\$13,180,608	\$13,180,608 \$158,167,201	\$13,180,608 \$474,347,808	\$13,180,608
Net Endowment Funding, Cum	lulative		\$13,180,608	\$26,361,215	\$39,541,823	\$52,722,430	\$65,903,038	\$79,083,645	\$92,264,253	\$105,444,860	\$118,625,468	\$131,806,076	\$144,986,683	\$158,167,291	\$171,347,898	\$184,528,506
Administrative Costs ²																
RCA Staff Costs			\$2,288,495	\$2,288,495	\$2,288,495	\$2,288,495	\$2,288,495	\$2,288,495	\$2,288,495	\$2,288,495	\$2,288,495	\$2,288,495	\$2,288,495	\$2,288,495	\$2,288,495	\$2,288,495
Professional Services Loan Repayment ³			\$1,466,062 \$1,000,000	\$1,466,062 \$1,000,000	\$1,466,062 \$0	\$1,466,062 \$0	\$1,466,062 \$0	\$1,466,062 \$0	\$1,466,062 \$0	\$1,466,062 \$0	\$1,466,062 \$0	\$1,466,062 \$0	\$1,466,062 \$0	\$1,466,062 \$0	\$1,466,062 \$0	\$1,466,062 \$0
Other			\$400,254	\$400,254	\$400,254	\$400,254	\$400,254	\$400,254	\$400,254	\$400,254	\$400,254	\$400,254	\$400,254	\$400,254	\$400,254	\$400,254
Total Annual Costs			\$5,154,811	\$5,154,811	\$4,154,811	\$4,154,811	\$4,154,811	\$4,154,811	\$4,154,811	\$4,154,811	\$4,154,811	\$4,154,811	\$4,154,811	\$4,154,811	\$4,154,811	\$4,154,811
Cumulative Costs			\$5,154,811	\$10,309,622	\$14,464,433	\$18,619,244	\$22,774,055	\$26,928,866	\$31,083,677	\$35,238,488	\$39,393,299	\$43,548,111	\$47,702,922	\$51,857,733	\$56,012,544	\$60,167,355
TOTAL ALL COSTS																
TOTAL Cumulativa			\$63,135,690	\$63,287,964	\$62,440,239	\$62,592,513	\$62,744,787	\$62,897,061 \$377,008,354	\$63,049,335 \$440,447,500	\$63,201,610	\$82,106,873	\$82,259,148	\$82,411,422	\$82,563,696	\$82,715,970	\$82,868,244
TOTAL Cumulative			\$63,135,690	\$126,423,655	\$188,863,893	\$251,456,406	\$314,201,193	\$377,098,254	\$440,147,590	\$503,349,199	\$585,456,073	\$667,715,220	\$750,126,642	\$832,690,338	\$915,406,308	\$998,274,552

^{1.} All local land conserved to date, including all HANS dedications to date, are captured in the year 17 number.

^{2.} RCA Administrative Costs are based on a three year average of FY 2016-17 through FY 2018-19 actual costs, adjusted to 2019 dollars.

^{3.} Annual administrative costs decrease in year 19 due to assumption that loan repayment is completed.

All Implementation Costs Over Time – 10 Year Extension

												End of:									
Habitat Lands/	Factors	_	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32			35
Cost Items			2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038
ACRES																					
Land Acuisition Costs																					
Land Acquisition (Annua	al)																				
Local	ırahaaa		2,989	2,989	2,989	2,989	2,989	2,989	2,989	2,989	2,989 0	2,989	2,989	2,989	2,989	2,989	2,989 0	2,989	2,989	2,989 0	2,989 0
(less) Anheuser Busch pur (less) HANS/JPR Dedicati			-1,250	<u>-1,250</u>	-1,250	<u>-1,250</u>	-1,250	<u>-1,250</u>	<u>-1,250</u>	-1,250	0	0	0	0	0	0	0	0	0	0	<u>0</u>
Total Local			1,739	1,739	1,739	1,739	1,739	1,739	1,739	1,739	2,989	2,989	2,989	_	2,989	2,989	2,989	2,989	2,989	2,989	2,989
State/Fed Total			<u>1,810</u> 3,549	<u>1,810</u> 3,549	<u>1,810</u> 3,549	<u>1,810</u> 3,549	<u>1,810</u> 3,549	<u>1,810</u> 3,549	<u>1,810</u> 3,549	<u>1,810</u> 3,549	<u>1,810</u> 4,799	<u>1,810</u> 4,799	<u>1,810</u> 4,799		<u>1,810</u> 4,799	<u>1,810</u> 4,799	<u>1,810</u> 4,799	<u>1,810</u> 4,799		<u>1,810</u> 4,799	<u>1.810</u> 4,799
Land Acquisition (Cumu	ulative)		3,349	3,349	3,349	3,349	3,349	3,349	3,349	3,349	4,799	4,799	4,799	4,799	4,799	4,799	4,799	4,799	4,799	4,799	4,799
Local 1	•		41,951	43,690	45,429	47,167	48,906	50,645	52,384	54,123	57,112	60,100	63,089	66,078	69,067	72,056	75,045	78,033	81,022	84,011	87,000
State/Fed			23,418	25,228	27,038	28,848	30,659	32,469	34,279	36,089	37,899	39,709	41,519	,	45,139	46,949	,	,	,	54,190	56,000
Local - HANS/JPR Dedica	ations		<u>1,250</u>	<u>2,500</u>	<u>3,750</u>	<u>5,000</u>	<u>6,250</u>	<u>7,500</u>	<u>8,750</u>	10,000	<u>10,000</u>	10,000	<u>10,000</u>	10,000	10,000	10,000	<u>10,000</u>	<u>10,000</u>	<u>10,000</u>	10,000	<u>10,000</u>
Total			66,619	71,418	76,217	81,016	85,815	90,614	95,413	100,212	105,011	109,809	114,608	119,407	124,206	129,005	133,804	138,603	143,402	148,201	153,000
Management and Monito	oring Costs																				
Reserve Summary		Responsibility																			
State/ Federal	Monitoring	Management																			
PQP	RCA	State/ Fed	282,000	282,000	282,000	282,000	282,000	282,000	282,000	282,000	282,000	282,000	282,000	282,000	282,000	282,000	282,000	282,000	282,000	282,000	282,000
ARL	RCA	State	23,418	25,228	27,038	28,848	30,659	32,469	34,279	36,089	37,899	39,709	41,519	43,329	45,139	46,949	48,760	50,570	52,380	54,190	56,000
Total			305,418	307,228	309,038	310,848	312,659	314,469	316,279	318,089	319,899	321,709	323,519	325,329	327,139	328,949	330,760	332,570	334,380	336,190	338,000
<u>Local</u> PQP	RCA	Non-RCA Local	65,000	65,000	65,000	65,000	65,000	65,000	65,000	65,000	65,000	65,000	65,000	65,000	65,000	65,000	65,000	65,000	65,000	65,000	65,000
ARL	RCA	RCA	43,201	46,190	49,179	52,167	<u>55,156</u>	58,145	61,134	64,123	67,112	70,100	73,089	76,078	79,067	82,056	<u>85,045</u>	88,033	91,022	94,011	97,000
Total			108,201	111,190	114,179	117,167	120,156	123,145	126,134	129,123	132,112	135,100	138,089	141,078	144,067	147,056	150,045	153,033	156,022	159,011	162,000
Total Acres under RCA	Management		43,201	46,190	49,179	52,167	55,156	58,145	61,134	64,123	67,112	70,100	73,089	76,078	79,067	82,056	85,045	88,033	91,022	94,011	97,000
Total Acres under RCA I	•		413,619	418,418	423,217	428,016	432,815	437,614	442,413	447,212	452,011	456,809	461,608	466,407	471,206	476,005	480,804	485,603	490,402	495,201	500,000
																	·				· ·
COSTS (all constant 201	,																				
Land Acquisition Costs Local, ARL, Annual	\$14,288	\$/Acre	\$24,844,562	\$24,844,562	\$24,844,562	\$24,844,562	\$24,844,562	\$24,844,562	\$24,844,562	\$24,844,562	\$42,704,552	\$42,704,552	\$42,704,552	\$42,704,552	\$42,704,552	\$42,704,552	\$42,704,552	\$42,704,552	\$42,704,552	\$42,704,552	\$42,704,552
Land Transaction Costs		of acquisition	\$1,242,228	\$1,242,228	\$1,242,228	\$1,242,228	\$1,242,228	\$1,242,228	\$1,242,228	\$1,242,228	\$2,135,228	\$2,135,228	\$2,135,228	\$2,135,228	\$2,135,228	\$2,135,228	\$2,135,228	\$2,135,228	\$2,135,228	\$2,135,228	\$2,135,228
Total, Land Acquisition Co		costs	\$26,086,790	\$26,086,790	\$26,086,790	\$26,086,790	\$26,086,790	\$26,086,790	\$26,086,790	\$26,086,790	\$44,839,780	\$44,839,780	\$44,839,780	\$44,839,780	\$44,839,780	\$44,839,780	\$44,839,780	\$44,839,780	\$44,839,780	\$44,839,780	\$44,839,780
Local, ARL, Cumulative	00.0		\$26,086,790	\$52,173,581	\$78,260,371	\$104,347,161	\$130,433,952	\$156,520,742	\$182,607,532	\$208,694,323	\$253,534,102	\$298,373,882	\$343,213,662	\$388,053,442	\$432,893,222	\$477,733,002	\$522,572,782	\$567,412,562	\$612,252,342	\$657,092,122	\$701,931,902
M																					
Management and Monito Management, Annual	\$32.70	\$/Acre	\$1,412,740	\$1,510,480	\$1,608,220	\$1,705,961	\$1,803,701	\$1,901,441	\$1,999,181	\$2,096,921	\$2,194,661	\$2,292,402	\$2,390,142	\$2,487,882	\$2.585.622	\$2,683,362	\$2,781,102	\$2,878,843	\$2,976,583	\$3,074,323	\$3,172,063
Management Cumulative		φ// (010	\$1,412,740	\$2,923,220	\$4,531,441	\$6,237,402	\$8,041,102	\$9,942,543	\$11,941,725	\$14,038,646	\$16,233,307	\$18,525,709	\$20,915,851	\$23,403,733	\$25,989,355	\$28,672,717	\$31,453,819	\$34,332,662	\$37,309,245	\$40,383,568	\$43,555,631
-																					
Monitoring, Annual	\$3.01	\$/Acre	\$1,246,462	\$1,260,924	\$1,275,386	\$1,289,847	\$1,304,309	\$1,318,771	\$1,333,233	\$1,347,695	\$1,362,157	\$1,376,619	\$1,391,081	\$1,405,542	\$1,420,004	\$1,434,466	\$1,448,928	\$1,463,390	\$1,477,852	\$1,492,314	\$1,506,776
Monitoring Cumulative			\$1,246,462	\$2,507,386	\$3,782,771	\$5,072,619	\$6,376,928	\$7,695,699	\$9,028,932	\$10,376,627	\$11,738,784	\$13,115,403	\$14,506,484	\$15,912,026	\$17,332,030	\$18,766,497	\$20,215,425	\$21,678,815	\$23,156,667	\$24,648,980	\$26,155,756
Endowment Costs																					
Net Endowment Funding,			\$8,966,410	\$8,966,410	\$8,966,410	\$8,966,410	\$8,966,410	\$8,966,410	\$8,966,410	\$8,966,410	\$8,966,410	\$8,966,410	\$8,966,410	\$8,966,410	\$8,966,410	\$8,966,410	\$8,966,410	\$8,966,410	\$8,966,410	\$8,966,410	\$8,966,410
Net Endowment Funding,	, Cumulative		\$8,966,410	\$17,932,819	\$26,899,229	\$35,865,639	\$44,832,049	\$53,798,458	\$62,764,868	\$71,731,278	\$80,697,687	\$89,664,097	\$98,630,507	\$107,596,917	\$116,563,326	\$125,529,736	\$134,496,146	\$143,462,556	\$152,428,965	\$161,395,375	\$170,361,785
Administrative Costs ²																					
RCA Staff Costs			\$2,288,495	\$2,288,495	\$2,288,495	\$2,288,495	\$2,288,495	\$2,288,495	\$2,288,495	\$2,288,495	\$2,288,495	\$2,288,495	\$2,288,495	\$2,288,495	\$2,288,495	\$2,288,495	\$2,288,495	\$2,288,495	\$2,288,495	\$2,288,495	\$2,288,495
Professional Services			\$1,466,062	\$1,466,062	\$1,466,062	\$1,466,062	\$1,466,062	\$1,466,062	\$1,466,062	\$1,466,062	\$1,466,062	\$1,466,062	\$1,466,062	\$1,466,062	\$1,466,062	\$1,466,062	\$1,466,062	\$1,466,062	\$1,466,062	\$1,466,062	\$1,466,062
Loan Repayment 3			\$1,000,000	\$1,000,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Other Total Annual Costs			\$400,254 \$5,154,811	\$400,254 \$5,154,811	\$400,254 \$4,154,811																
Cumulative Costs			\$5,154,811 \$5,154,811	\$10,309,622	\$14,464,433	\$18,619,244	\$22,774,055	\$26,928,866	\$31,083,677	\$35,238,488	\$39,393,299	\$43,548,111	\$47,702,922	\$51,857,733	\$56,012,544	\$60,167,355	\$64,322,166	\$68,476,977	\$72,631,788	\$76,786,599	\$80,941,410
TOTAL ALL COSTS TOTAL Annual			\$42,867,213	\$42,979,415	\$42,091,617	\$42,203,819	\$42,316,021	\$42,428,223	\$42,540,425	\$42,652,627	\$61,517,819	\$61,630,021	\$61,742,223	\$61,854,425	\$61,966,627	\$62,078,829	\$62,191,031	\$62,303,233	\$62,415,435	\$62,527,637	\$62,639,839
TOTAL Annual TOTAL Cumulative			\$42,867,213 \$42,867,213	\$85,846,628			\$212,458,086	\$254,886,309	\$297,426,735	\$340,079,362	\$401,597,181	\$463,227,202	\$524,969,425	. , ,	\$648,790,477	\$710,869,307	\$773,060,338	\$835,363,571	\$897,779,006	\$960,306,644	\$1,022,946,483
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All local land conserved to date, including all HANS dedications to date, are captured in the year 17 number.
 RCA Administrative Costs are based on a three year average of FY 2016-17 through FY 2018-19 actual costs, adjusted to 2019 dollars.
 Annual administrative costs decrease in year 19 due to assumption that loan repayment is completed.

All Implementation Costs Over Time – 15 Year Extension

														End of:											
Habitat Lands/ Fa	actors	17 2020	18 2021	19 2022	20 2023	21 2024	22 2025	23 2026	24 2027	25 2028	26 2029	27 2030	28 2031	29 2032	30 2033	31 2034	32 2035	33 2036	34 2037	35 2038	36 2039	37 2040	38 2041	39 2042	40 2043
ACRES Land Acuisition Co	nete																								
Land Acquisition (A		2,366	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Local (less) HANS/JPR De Total Local	edications	-1,250 1,116	2,366 <u>-1,250</u> 1,116	2,366 <u>-1,250</u> 1,116	<u>-1,250</u>	2,366 <u>-1,250</u> 1,116	2,366 <u>-1,250</u> 1,116	2,366 <u>-1,250</u> 1,116	2,366 <u>-1,250</u> 1,116	2,366 <u>0</u> 2,366	2,366 <u>0</u> 2,366	2,366 <u>0</u> 2,366	2,366 <u>0</u> 2,366	2,366 <u>0</u> 2,366	2,366 <u>0</u> 2,366	2,366 <u>0</u> 2,366	2,366 <u>0</u> 2,366	2,366 <u>0</u> 2,366	2,366 <u>0</u> 2,366	2,366 <u>0</u> 2,366	<u>0</u>	2,366 <u>0</u> 2,366	2,366 <u>0</u> 2,366	2,366 <u>0</u> 2,366	2,366 <u>0</u> 2,366
State/Fed Total		1,433 2,549	<u>1,433</u> 2,549	<u>1,433</u> 2,549		<u>1,433</u> 2,549		1,433 2,549	1,433 2,549	1,433 3,799	1,433 3,799	1,433 3,799	1,433 3,799	1.433 3,799	1,433 3,799	<u>1,433</u> 3,799	1,433 3,799	1,433 3,799	1,433 3,799	<u>1,433</u> 3,799		<u>1,433</u> 3,799	1,433 3,799	1,433 3,799	1,433 3,799
Land Acquisition (C Local ¹	Cumulative)	41,328	42,444	43,561	I 44,677	45,793	46,909	48,025	49,141	51,508	53,874	56,240	58,606	60,972	63,338	65,705	68,071	70,437	72,803	75,169	77,535	79,902	82,268	84,634	87,000
State/Fed Local - HANS/JPR D Total	Dedications	23,041 <u>1,250</u> 65,619	24,474 2,500 69,418	25,907 <u>3,750</u> 73,218	5,000	28,773 <u>6,250</u> 80,816	7,500	31,639 <u>8,750</u> 88,414	33,072 10,000 92,213	34,505 10,000 96,013	35,938 <u>10,000</u> 99,812	37,371 <u>10,000</u> 103,611	38,804 10,000 107,410	40,237 <u>10,000</u> 111,209	41,670 <u>10,000</u> 115,008	43,103 <u>10,000</u> 118,808	44,536 <u>10,000</u> 122,607	45,969 <u>10,000</u> 126,406	47,402 <u>10,000</u> 130,205	48,835 <u>10,000</u> 134,004	50,268 <u>10,000</u> 137,803	51,701 <u>10,000</u> 141,603	53,134 10,000 145,402	54,567 <u>10,000</u> 149,201	56,000 <u>10,000</u> 153,000
Management and M	Monitoring Costs				,	,	2.,2.2		3-,		,	,	,	,	,		.==,	,	,	,	,	,	,	,	,
-	Financial Responsibility Monitoring Managemer																								
State/ Federal PQP	RCA State/ Fed	282,000	282,000	282,000		282,000	282,000	282,000	282,000	282,000	282,000	282,000	282,000	282,000	282,000	282,000	282,000	282,000	282,000	282,000	282,000	282,000	282,000	282,000	282,000
ARL Total <u>Local</u>	RCA State	<u>23,041</u> 305,041	<u>24,474</u> 306,474	<u>25,907</u> 307,907	27,340 309,340	<u>28,773</u> 310,773	30,206 312,206	31,639 313,639	33,072 315,072	<u>34,505</u> 316,505	<u>35,938</u> 317,938	37,371 319,371	38,804 320,804	40,237 322,237	41,670 323,670	43,103 325,103	44,536 326,536	45,969 327,969	47,402 329,402	48,835 330,835	<u>50,268</u> 332,268	<u>51,701</u> 333,701	<u>53,134</u> 335,134	<u>54,567</u> 336,567	<u>56,000</u> 338,000
PQP	RCA Non-RCA Local	65,000	65,000	65,000	65,000	65,000	65,000	65,000	65,000	65,000	65,000	65,000	65,000	65,000	65,000	65,000	65,000	65,000	65,000	65,000	65,000	65,000	65,000	65,000	65,000
ARL Total	RCA RCA	42,578 107,578	44,944 109,944	47,311 112,311	49,677 114,677	52,043 117,043	<u>54,409</u> 119,409	<u>56,775</u> 121,775	59,141 124,141	61,508 126,508	63,874 128,874	66,240 131,240	68,606 133,606	<u>70,972</u> 135,972	<u>73,338</u> 138,338	75,705 140,705	78,071 143,071	80,437 145,437	82,803 147,803	<u>85,169</u> 150,169	<u>87,535</u> 152,535	89,902 154,902	<u>92,268</u> 157,268	94,634 159,634	97,000 162,000
Total Acres under F		42,578 412,619	44,944 416,418	47,311 420,218	49,677 424,017	52,043 427,816	54,409 431,615	56,775 435,414	59,141 439,213	61,508 443,013	63,874 446,812	66,240 450,611	68,606 454,410	70,972 458,209	73,338 462,008	75,705 465,808	78,071 469,607	80,437 473,406	82,803 477,205	85,169 481,004	87,535 484,803	89,902 488,603	92,268 492,402	94,634 496,201	97,000 500,000
COSTS (all constant																									
Local, ARL, Annual	\$14,288 \$/Acre	\$15,947,780	\$15,947,780	\$15,947,780	\$15,947,780	\$15,947,780	\$15,947,780	\$15,947,780	\$15,947,780	\$33,807,771	\$33,807,771	\$33,807,771	\$33,807,771	\$33,807,771	\$33,807,771	\$33,807,771	\$33,807,771	\$33,807,771	\$33,807,771	\$33,807,771	\$33,807,771	\$33,807,771	\$33,807,771	\$33,807,771	\$33,807,771
Land Transaction Costs	5% of acquisition costs	\$797,389	\$797,389	\$797,389	\$797,389	\$797,389	\$797,389	\$797,389	\$797,389	\$1,690,389	\$1,690,389	\$1,690,389	\$1,690,389	\$1,690,389	\$1,690,389	\$1,690,389	\$1,690,389	\$1,690,389	\$1,690,389	\$1,690,389	\$1,690,389	\$1,690,389	\$1,690,389	\$1,690,389	\$1,690,389
Total, Land Acquisition	ion Costs	\$16,745,170	\$16,745,170			\$16,745,170	\$16,745,170	\$16,745,170	\$16,745,170	\$35,498,159	\$35,498,159	\$35,498,159	\$35,498,159	\$35,498,159	\$35,498,159	\$35,498,159	\$35,498,159	\$35,498,159	\$35,498,159	\$35,498,159	\$35,498,159	\$35,498,159	\$35,498,159	\$35,498,159	\$35,498,159
Cumulative		\$16,745,170	\$33,490,339	\$50,235,509	\$66,980,678	\$83,725,848	\$100,471,017	\$117,216,187	\$133,961,356	\$169,459,515	\$204,957,674	\$240,455,833	\$275,953,992	\$311,452,152	\$346,950,311	\$382,448,470	\$417,946,629	\$453,444,788	\$488,942,947	\$524,441,106	\$559,939,265	\$595,437,424	\$630,935,583	\$666,433,743	\$701,931,902
Management and M Management,	Monitoring Costs \$32.70 \$/Acre	\$1,392,378	\$1,469,755	\$1.547.133	\$1.624.511	\$1,701,888	\$1,779,266	\$1,856,643	\$1,934,021	\$2,011,399	\$2,088,776	\$2,166,154	\$2,243,532	\$2,320,909	\$2,398,287	\$2,475,664	\$2,553,042	\$2,630,420	\$2,707,797	\$2,785,175	\$2,862,553	\$2,939,930	\$3,017,308	\$3,094,685	\$3,172,063
Annual Management	φ32.70 φ/Acre	\$1,392,378	\$2,862,133	\$4,409,266		\$7,735,664	\$9,514,930	\$1,030,043	\$13,305,595	\$15,316,993	\$17,405,770	\$19,571,923	\$21,815,455	\$2,320,909	\$26,534,651	\$29,010,315	\$31,563,357	\$34,193,777	\$36,901,574	\$39,686,749	\$42,549,302	\$45,489,232	\$48,506,540	\$51,601,225	\$5,172,003
Cumulative Monitoring,																									
Annual Monitoring	\$3.01 \$/Acre	\$1,243,449 \$1,243,449	\$1,254,898 \$2,498,347	\$1,266,347 \$3,764,694	* * * * * * * * * * * * * * * * * * * *	\$1,289,245 \$6,331,735	\$1,300,694 \$7,632,429	\$1,312,143 \$8,944,572	\$1,323,592 \$10,268,163	\$1,335,041 \$11,603,204	\$1,346,490 \$12,949,694	\$1,357,939 \$14,307,633	\$1,369,388 \$15,677,021	\$1,380,837 \$17,057,857	\$1,392,286 \$18,450,143	\$1,403,735 \$19,853,878	\$1,415,184 \$21,269,062	\$1,426,633 \$22,695,694	\$1,438,082 \$24,133,776	\$1,449,531 \$25,583,307	\$1,460,980 \$27,044,286	\$1,472,429 \$28,516,715	\$1,483,878 \$30,000,593	\$1,495,327 \$31,495,919	\$1,506,776 \$33,002,695
Cumulative		Ψ1,210,110	ψΣ, 100,0 11	ψο, το τ, σο τ	40,0 12, 100	ψο,σο 1,7 σο	ψ1,002,120	φο,σ τ τ,σ τ	ψ10,200,100	ψ. 1,000,20 i	ψ12,010,001	ψ. 1,007,000	ψ.ο,ο,ο	ψ,σσ.,σσ.	\$10,100,110	\$10,000,010	\$21,200,002	Ψ Σ Σ,000,00 i	ψ <u>Σ</u> 1,100,110	Ψ20,000,007	Ψ27,0 1 1,200	Ψ20,010,110	\$30,000,000	ψο 1, 100,010	400,002,000
Net Endowment Funding, Annual		\$6,541,714	\$6,541,714	\$6,541,714	\$6,541,714	\$6,541,714	\$6,541,714	\$6,541,714	\$6,541,714	\$6,541,714	\$6,541,714	\$6,541,714	\$6,541,714	\$6,541,714	\$6,541,714	\$6,541,714	\$6,541,714	\$6,541,714	\$6,541,714	\$6,541,714	\$6,541,714	\$6,541,714	\$6,541,714	\$6,541,714	\$6,541,714
Net Endowment Funding, Cumulative		\$6,541,714	\$13,083,429	\$19,625,143	\$26,166,857	\$32,708,572	\$39,250,286	\$45,792,000	\$52,333,715	\$58,875,429	\$65,417,143	\$71,958,858	\$78,500,572	\$85,042,286	\$91,584,001	\$98,125,715	\$104,667,429	\$111,209,144	\$117,750,858	\$124,292,572	\$130,834,286	\$137,376,001	\$143,917,715	\$150,459,429	\$157,001,144
Administrative Cos	sts ²																								
RCA Staff Costs Professional Services	es	\$2,288,495 \$1,466,062	\$2,288,495 \$1,466,062	\$2,288,495 \$1,466,062		\$2,288,495 \$1,466,062	\$2,288,495 \$1,466,062	\$2,288,495 \$1,466,062	\$2,288,495 \$1,466,062	\$2,288,495 \$1,466,062	\$2,288,495 \$1,466,062	\$2,288,495 \$1,466,062	\$2,288,495 \$1,466,062	\$2,288,495 \$1,466,062	\$2,288,495 \$1,466,062	\$2,288,495 \$1,466,062	\$2,288,495 \$1,466,062	\$2,288,495 \$1,466,062	\$2,288,495 \$1,466,062	\$2,288,495 \$1,466,062	\$2,288,495 \$1,466,062	\$2,288,495 \$1,466,062	\$2,288,495 \$1,466,062	\$2,288,495 \$1,466,062	\$2,288,495 \$1,466,062
Loan Repayment ³ Other		\$1,000,000 \$400,254	\$1,000,000 \$400,254	\$0 \$400,254	**	\$0 \$400,254	\$0 \$400,254	\$0 \$400,254	\$0 \$400,254	\$0 \$400,254	\$0 \$400,254	\$0 \$400,254	\$0 \$400,254	\$0 \$400,254	\$0 \$400,254	\$0 \$400,254	\$0 \$400,254	\$0 \$400,254	\$0 \$400,254	\$0 \$400,254	\$0 \$400,254	\$0 \$400,254	\$0 \$400,254	\$0 \$400,254	\$0 \$400,254
Total Annual Costs Cumulative Costs		\$5,154,811 \$5,154,811	\$5,154,811 \$10,309,622		\$4,154,811 \$18,619,244	\$4,154,811 \$22,774,055	\$4,154,811 \$26,928,866	\$4,154,811 \$31,083,677	\$4,154,811 \$35,238,488	\$4,154,811 \$39,393,299	\$4,154,811 \$43,548,111	\$4,154,811 \$47,702,922	\$4,154,811 \$51,857,733	\$4,154,811 \$56,012,544	\$4,154,811 \$60,167,355	\$4,154,811 \$64,322,166	\$4,154,811 \$68,476,977	\$4,154,811 \$72,631,788	\$4,154,811 \$76,786,599	\$4,154,811 \$80,941,410	\$4,154,811 \$85,096,221	\$4,154,811 \$89,251,032	\$4,154,811 \$93,405,843	\$4,154,811 \$97,560,654	\$4,154,811 \$101,715,465
TOTAL ALL COSTS	<u>3</u>	¢24.077.524	\$24 466 240	¢20 255 475	\$20.244.004	\$20 A22 B22	\$20 E24 6E5	\$20,640,494	\$20,600,200	¢40 544 404	\$40,600,054	¢40 740 777	¢40 907 604	¢40 00c 420	\$40,00E,0E7	¢50.074.094	\$50.462.040	¢60 054 707	\$E0 240 E62	¢50,400,000	\$50 F49 247	¢50.607.040	\$50 605 970	¢50.794.607	¢50 972 522
TOTAL Annual TOTAL Cumulative						\$30,432,828 \$153,275,874	\$30,521,655 \$183,797,528	\$30,610,481 \$214,408,009	\$30,699,308 \$245,107,317	\$49,541,124 \$294,648,441		\$49,718,777 \$393,997,169	\$49,807,604 \$443,804,773	\$49,896,430 \$493,701,203	\$49,985,257 \$543,686,460	\$50,074,084 \$593,760,544	\$50,162,910 \$643,923,454	\$50,251,737 \$694,175,191	\$50,340,563 \$744,515,754	\$50,429,390 \$794,945,144	\$50,518,217 \$845,463,361	\$50,607,043 \$896,070,404	\$50,695,870 \$946,766,274	\$50,784,697 \$997,550,971	\$50,873,523 \$1,048,424,494

All local land conserved to date, including all HANS dedications to date, are captured in the year 17 number.
 RCA Administrative Costs are based on a three year average of FY 2016-17 through FY 2018-19 actual costs, adjusted to 2019 dollars.
 Annual administrative costs decrease in year 19 due to assumption that loan repayment is completed.

APPENDIX II:

Detailed Time Series of Endowment Funding



Annual Cost Estimate for Management and Monitoring, Constant 2019\$

Cost Categories	Annual Cost by Last Year of Land Acquisition Period	Adjustment	Annual Post-Land Acquisition Cost
Ongoing Habitat Management	\$3,172,063	100%	\$3,172,063
Ongoing Habitat Monitoring	\$1,506,776	100%	\$1,506,776
Administration ¹	\$4,154,811	50%	\$2,077,406
Total	\$8,833,650		\$6,756,244

^{1.} Adminsitration includes salaries and benefits, accounting, auditing and reporting, contracts, etc.. Assumes less administration is needed following the land acquisition period; ongoing adminsitrative needs include oversight, auditing and reporting, and board staffing.

Sources: Western Riverside County Regional Conservation Authority; and Economic & Planning Systems, Inc.

Endowment Funding – No Extension Scenario

Item	1	2	3	4	5	6	7	8	9	Post-Permit
New Impact Acres (avg. annual)	2,252	2,252	2,252	2,252	2,252	2,252	2,252	2,252	2,252	
Average Per Acre Endowment Fee	\$9,845	\$9,845	\$9,845	\$9,845	\$9,845	\$9,845	\$9,845	\$9,845	\$9,845	
Annual Endowment Funding	\$22,168,105	\$22,168,105	\$22,168,105	\$22,168,105	\$22,168,105	\$22,168,105	\$22,168,105	\$22,168,105	\$22,168,105	
Endowment Balance	\$22,168,105	\$44,336,210	\$67,169,359	\$90,687,502	\$114,911,189	\$139,861,586	\$165,560,496	\$192,030,373	\$219,294,346	
Annual Interest	\$0	\$665,043	\$1,350,038	\$2,055,582	\$2,782,293	\$3,530,804	\$4,301,772	\$5,095,868	\$5,913,787	
Cumulative Interest Earnings	\$0	\$665,043	\$2,015,081	\$4,070,663	\$6,852,955	\$10,383,760	\$14,685,531	\$19,781,399	\$25,695,187	
Total Endowment	\$22,168,105	\$45,001,254	\$68,519,396	\$92,743,083	\$117,693,481	\$143,392,391	\$169,862,268	\$197,126,241	\$225,208,133	
Average Annual Post Permit Interest										\$6,756,24

⁽¹⁾ Endowment fee set to ensure that, at the end of the permit term, the total endowment (Including endowment fee revenues and interest) are sufficient to provide annual interest revenues equal to the post-permit annual cost. The real interest rate is assumed to be 3 percent annually.

<u>Assumptions</u>

20,265 impact acres developed

9 year plan

3% interest rate (real, net)

\$6,756,244 annual post-permit cost estimate

\$9,845 Endowment Funding Per Acre of Conservation

Endowment Funding – 5 Year Extension Scenario

Item	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Post-Permit
New Impact Acres (avg. annual)	2,252	2,252	2,252	2,252	2,252	2,252	2,252	2,252	2,252	2,252	2,252	2,252	2,252	2,252	
Average Per Acre Endowment Fee	\$5,854	\$5,854	\$5,854	\$5,854	\$5,854	\$5,854	\$5,854	\$5,854	\$5,854	\$5,854	\$5,854	\$5,854	\$5,854	\$5,854	
Annual Endowment Funding	\$13,180,608	\$13,180,608	\$13,180,608	\$13,180,608	\$13,180,608	\$13,180,608	\$13,180,608	\$13,180,608	\$13,180,608	\$13,180,608	\$13,180,608	\$13,180,608	\$13,180,608	\$13,180,608	
Endowment Balance	\$13,180,608	\$26,361,215	\$39,937,241	\$53,920,547	\$68,323,353	\$83,158,243	\$98,438,180	\$114,176,514	\$130,386,999	\$147,083,799	\$164,281,502	\$181,995,136	\$200,240,180	\$219,032,574	
Annual Interest	\$0	\$395,418	\$802,699	\$1,222,198	\$1,654,282	\$2,099,329	\$2,557,727	\$3,029,877	\$3,516,192	\$4,017,096	\$4,533,027	\$5,064,436	\$5,611,787	\$6,175,559	
Cumulative Interest Earnings	\$0	\$395,418	\$1,198,117	\$2,420,315	\$4,074,598	\$6,173,927	\$8,731,654	\$11,761,531	\$15,277,723	\$19,294,819	\$23,827,846	\$28,892,281	\$34,504,069	\$40,679,628	
Total Endowment	\$13,180,608	\$26,756,633	\$40,739,940	\$55,142,746	\$69,977,636	\$85,257,572	\$100,995,907	\$117,206,392	\$133,903,191	\$151,100,894	\$168,814,529	\$187,059,572	\$205,851,967	\$225,208,133	
Average Annual Post Permit Interes	t														\$6,756,24

⁽¹⁾ Endowment fee set to ensure that, at the end of the permit term, the total endowment (Including endowment fee revenues and interest) are sufficient to provide annual interest revenues equal to the post-permit annual cost. The real interest rate is assumed to be 3 percent annually.

<u>Assumptions</u>

31,523 impact acres developed

14 year plan

3% interest rate (real, net)

\$6,756,244 annual post-permit cost estimate \$5,854 Endowment Funding Per Acre of Conservation

Endowment Funding – 10 Year Extension Scenario

Item	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	Post-Permit
New Impact Acres (avg. annual)	2,252	2,252	2,252	2,252	2,252	2,252	2,252	2,252	2,252	2,252	2,252	2,252	2,252	2,252	2,252	2,252	2,252	2,252	2,252	
Average Per Acre Endowment Fee	\$3,982	\$3,982	\$3,982	\$3,982	\$3,982	\$3,982	\$3,982	\$3,982	\$3,982	\$3,982	\$3,982	\$3,982	\$3,982	\$3,982	\$3,982	\$3,982	\$3,982	\$3,982	\$3,982	
Annual Endowment Funding	\$8,966,410	\$8,966,410	\$8,966,410	\$8,966,410	\$8,966,410	\$8,966,410	\$8,966,410	\$8,966,410	\$8,966,410	\$8,966,410	\$8,966,410	\$8,966,410	\$8,966,410	\$8,966,410	\$8,966,410	\$8,966,410	\$8,966,410	\$8,966,410	\$8,966,410	
Endowment Balance	\$8,966,410	\$17,932,819	\$27,168,221	\$36,680,686	\$46,478,524	\$56,570,297	\$66,964,823	\$77,671,185	\$88,698,738	\$100,057,118	\$111,756,249	\$123,806,354	\$136,217,962	\$149,001,918	\$162,169,393	\$175,731,892	\$189,701,266	\$204,089,722	\$218,909,831	
Annual Interest	\$0	\$268,992	\$546,054	\$831,428	\$1,125,363	\$1,428,117	\$1,739,952	\$2,061,143	\$2,391,970	\$2,732,721	\$3,083,695	\$3,445,198	\$3,817,547	\$4,201,065	\$4,596,089	\$5,002,964	\$5,422,046	\$5,853,699	\$6,298,303	
Cumulative Interest Earnings	\$0	\$268,992	\$815,047	\$1,646,475	\$2,771,838	\$4,199,955	\$5,939,907	\$8,001,051	\$10,393,020	\$13,125,742	\$16,209,437	\$19,654,635	\$23,472,182	\$27,673,247	\$32,269,336	\$37,272,301	\$42,694,347	\$48,548,046	\$54,846,349	
Total Endowment	\$8,966,410	\$18,201,812	\$27,714,276	\$37,512,114	\$47,603,887	\$57,998,413	\$68,704,775	\$79,732,328	\$91,090,708	\$102,789,839	\$114,839,944	\$127,251,552	\$140,035,508	\$153,202,983	\$166,765,482	\$180,734,856	\$195,123,312	\$209,943,421	\$225,208,133	
Average Annual Post Permit Interest																				\$6,756,244

⁽¹⁾ Endowment fee set to ensure that, at the end of the permit term, the total endowment (Including endowment fee revenues and interest) are sufficient to provide annual interest revenues equal to the post-permit annual cost. The real interest rate is assumed to be 3 percent annually.

Assumptions 42,782 impact acres developed

19 year plan
3% interest rate (real, net)
\$6,756,244 annual post-permit cost estimate
\$3,982 Endowment Funding Per Acre of Conservation

Endowment Funding – 15 Year Extension Scenario

Item	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
New Impact Acres (avg. annual)	2,252	2,252	2,252	2,252	2,252	2,252	2,252	2,252	2,252	2,252	2,252	2,252	2,252	2,252	2,252
Average Per Acre Endowment Fee	\$2,905	\$2,905	\$2,905	\$2,905	\$2,905	\$2,905	\$2,905	\$2,905	\$2,905	\$2,905	\$2,905	\$2,905	\$2,905	\$2,905	\$2,905
Annual Endowment Funding	\$6,541,714	\$6,541,714	\$6,541,714	\$6,541,714	\$6,541,714	\$6,541,714	\$6,541,714	\$6,541,714	\$6,541,714	\$6,541,714	\$6,541,714	\$6,541,714	\$6,541,714	\$6,541,714	\$6,541,714
Endowment Balance	\$6,541,714	\$13,083,429	\$19,821,394	\$26,761,499	\$33,909,807	\$41,272,564	\$48,856,204	\$56,667,353	\$64,712,836	\$72,999,684	\$81,535,138	\$90,326,655	\$99,381,917	\$108,708,838	\$118,315,566
Annual Interest	\$0	\$196,251	\$398,390	\$606,594	\$821,043	\$1,041,925	\$1,269,435	\$1,503,769	\$1,745,134	\$1,993,739	\$2,249,803	\$2,513,548	\$2,785,206	\$3,065,014	\$3,353,216
Cumulative Interest Earnings	\$0	\$196,251	\$594,642	\$1,201,235	\$2,022,278	\$3,064,204	\$4,333,638	\$5,837,407	\$7,582,541	\$9,576,280	\$11,826,083	\$14,339,631	\$17,124,837	\$20,189,851	\$23,543,067
Total Endowment	\$6,541,714	\$13,279,680	\$20,219,785	\$27,368,093	\$34,730,850	\$42,314,490	\$50,125,639	\$58,171,122	\$66,457,970	\$74,993,424	\$83,784,941	\$92,840,203	\$102,167,123	\$111,773,852	\$121,668,781

Average Annual Post Permit Interest

16	17	18	19	20	21	22	23	24	Post-Permit
2,252	2,252	2,252	2,252	2,252	2,252	2,252	2,252	2,252	
\$2,905	\$2,905	\$2,905	\$2,905	\$2,905	\$2,905	\$2,905	\$2,905	\$2,905	
\$6,541,714	\$6,541,714	\$6,541,714	\$6,541,714	\$6,541,714	\$6,541,714	\$6,541,714	\$6,541,714	\$6,541,714	
\$128,210,496	\$138,402,273	\$148,899,805	\$159,712,262	\$170,849,092	\$182,320,028	\$194,135,092	\$206,304,607	\$218,839,209	
\$3,650,063	\$3,955,817	\$4,270,743	\$4,595,116	\$4,929,221	\$5,273,349	\$5,627,801	\$5,992,887	\$6,368,925	
\$27,193,130	\$31,148,947	\$35,419,689	\$40,014,806	\$44,944,027	\$50,217,377	\$55,845,178	\$61,838,065	\$68,206,990	
\$131,860,559	\$142,358,090	\$153,170,547	\$164,307,378	\$175,778,314	\$187,593,377	\$199,762,893	\$212,297,494	\$225,208,133	

\$6,756,244

Assumptions

54,040 impact acres developed

24 year plan

3% interest rate (real, net)

\$6,756,244 annual post-permit cost estimate

\$2,905 Endowment Funding Per Acre of Conservation

⁽¹⁾ Endowment fee set to ensure that, at the end of the permit term, the total endowment (Including endowment fee revenues and interest) are sufficient to provide annual interest revenues equal to the post-permit annual cost. The real interest rate is assumed to be 3 percent annually.

Appendix G - TUMF 2016 Program Update Disposition of Network Change Requests

As part of the 2024 update of the TUMF Nexus Study, the list of proposed improvements to mitigate the cumulative regional impacts of new development in the TUMF Network Cost Estimate table included in the previously adopted Nexus Study was reviewed for accuracy. In particular, the Network Cost table was reviewed to ensure the included projects were consistent with the mitigation needs identified by the RivCoM future year no-build traffic conditions.

To assist in the review of the Network Cost Estimate table, participating local jurisdictions, private developers and the Riverside County Transportation Commission were asked to submit requests for changes to the TUMF Network. The various requests for network changes were subsequently reviewed for consistency with the program guidelines for inclusion on the TUMF Network and to determine if future traffic impacts would be sufficient to require mitigation primarily utilizing the RivCoM future no-build scenario outputs to quantify impacts as well as screening the various qualitative measures that have guided the TUMF Network development since program inception.

Based on the findings of the review of the entire TUMF network, elements of specific projects were revised to reflect only necessary network corrections, modifications to project assumptions and to incorporate a limited number of additional improvements. The preliminary results of the network review and the associated screening of specific requested projects was presented to the WRCOG Public Works Directors Committee (PWC) in August 2023. Updated screening results were presented to the PWC in February 2024 and the findings endorsed confirming the TUMF Network as the basis for the Draft 2024 Nexus Study that was subsequently presented to the PWC for review and comment in April 2024. A matrix summarizing the disposition of the specific project requests received as part of the 2024 TUMF Nexus Update is included as **Exhibit G-1** in this Appendix.

With the release of the Draft 2024 Nexus Update Study Report for a formal review period commencing on May 14, 2024, and ending on June 10, 2024, additional comments were provided to WRCOG staff by thirteen participating jurisdictions or other stakeholders. These comments were reviewed by WRCOG staff and responses were provided to each of the parties that submitted comments. The responses included several changes to the TUMF network to remedy typographical errors contained in the draft report, including misreporting in the number of existing lanes, project percent complete and interchange project type for approximately 10 TUMF network segments. The recommended network revisions were presented to the PWC on August 8, 2024, and are reflected in the TUMF network cost table included in **Exhibit H-1**.

EXHIBIT G-1 2024 TUMF Nexus Study Update - Network Addition Requests

City/ County	Street Name	From	То	Recommendation
Eastvale	Hellman	River Road	Walter	Add to network for continuity and mitigate future v/c deficiency
Eastvale	Hellman	Schleisman	Walter	Add to network for continuity and mitigate future v/c deficiency
Eastvale	Hellman	Cucamonga Creek	bridge	Add to network for continuity and mitigate future v/c deficiency
Eastvale	River Rd	Archibald	Hellman	Add to network for continuity and mitigate future v/c deficiency
Eastvale	Limonite ITS	city wide		Add to network for deficient links with no capacity increase
Eastvale	Hamner ITS	city wide		Add to networks for deficient links with no capacity increase
Eastvale	Schliesman ITS	city wide		Add to networks for deficient links with no capacity increase
Eastvale	Archibald ITS	city wide		Add to networks for deficient links with no capacity increase
Eastvale	Limonite	Cucamonga Creek	bridge	Bridge length increased to 500'
Riverside	3rd	Chicago	lowa	Do not add - no V/C deficiency and interchange overcrossing reconstructed to 4 lanes in 2006-2007
Riverside	La Sierra ITS	SR-91	Victoria	Add to network for deficient links with no capacity increase
Riverside	Madison ITS	SR-91	Victoria	Add to network for deficient links with no capacity increase
Riverside	University ITS	Market St	Canyon Crest	Add to network for deficient links with no capacity increase
Riverside	Tyler ITS	California Ave	Indiana Ave	Do not add - no V/C deficiency
Riverside	Alessandro Blvd ITS	Fairview Ave	Meridian	Add to network for deficient links with no capacity increase
County	Markham St	Mockingbird Canyon	Wood Rd	Do not add - no regional connectivity or V/C deficiency

Central Zone

one				
City/ County	Street Name	From	То	Recommendation
Menifee	Garbani	Haun	Antelope	Do not add - no future v/c deficiency
Menifee	Garbani	I-215	interchange	Add to network to mitigate future v/c deficiency
Menifee	Garbani	I-215	Menifee	Do not add - no future v/c deficiency
Menifee	Garbani	Menifee	Briggs	Do not add - no future v/c deficiency
Menifee	Holland	City Limits (West)	Murrieta	Do not add - no future v/c deficiency
Menifee	Holland	Murrieta	Bradley	Add to network for continuity and mitigate future v/c deficiency
Menifee	Holland	Bradley	Haun	Add to network for continuity and mitigate future v/c deficiency
Menifee	Holland	Antelope	Muenifee	Add to network for continuity and mitigate future v/c deficiency
Menifee	Scott	Haun	Menifee	Already on TUMF Network
Menifee	Scott	Menifee	Briggs	Already on TUMF Network
Menifee	Scott	Sunset	Murrieta	Aiready on TUMF Network
Menifee	Briggs	Simpson	Angler	Aiready on TUMF Network
Menifee	Briggs	Salt Creek	bridge	Aiready on TUMF Network
Perris	Ethanac	Bridge	San Jacinto River	Aiready on TUMF Network
Unincorporated	Grand Ave	Briggs Rd	SR-79	Do not add - no future v/c deficiency

San Jacinto Zone

City/ County	Street Name	From	То	Recommendation
Hemet	Stetson	Warren	0.85 Miles w/o Warren	Do not add - no regional connectivity or V/C deficiency
San Jacinto	7th St	Western Terminus	Warren Rd	Do not add - no future v/c deficiency
San Jacinto	7st St	Channel adjacent to Warren	bridge	Do not add - no future v/c deficiency

Pass Zone

City/ County	Street Name	From	То	Recommendation
Banning	Highland Springs	Cherry Valley	Oak Valley	Already on TUMF Network - no v/c deficiency
Banning	Cottonwood	I-10	interchange	Do not add - no connectivity to regional network
Banning	Wilson	Highland Springs	Highland Home	Already on TUMF Network - no v/c deficiency
Banning	Sun Lakes	Smith Creek	bridge	Segment already on TUMF Network - Bridge added

Southwest Zone

t Zone				
City/ County	Street Name	From	То	Recommendation
Lake Elsinore	Camino del Norte	Summerhill	Main	Do not add - no connectivity to regional network
Lake Elsinore	Summerhill	Railroad Canyon	Greenwald	Do not add - no regional connectivity or V/C deficiency
Lake Elsinore	Nichols	I-15	Lake	Already on TUMF Network
Wildomar	Inland Valley Dr	I-15	bridge	Do not add - no connectivity to regional network
Wildomar	Palomar	Starbuck	Washington	Already on TUMF Network
Wildomar	Bundy Canyon	I-15	City Limits (Sunset)	Already on TUMF Network
Murrieta	Orange Springs Parkway	Clinton Keith	Scott	Do not add - no regional connectivity or V/C deficiency
Murrieta	Calle del Oso Oro	Vineyard Pkwy	Washington	Do not add - no regional connectivity or V/C deficiency
Murrieta	Calle del Oso Oro	1500 w/o Vineyard Pkwy	bridge	Do not add - no regional connectivity or V/C deficiency
Murrieta	Adams	Murrieta Hot Springs/Hawthorne	Cherry	Do not add - no regional connectivity or V/C deficiency
Temecula	Ynez Road	Rancho California	Santiago	Do not add - no connectivity to regional network
Temecula	Ynez Road/DePortola Road	Santiago	Margarita	Do not add - no connectivity to regional network
Temecula	ITS	Major Arterials (Winchester, Rancho California, Butterfield Stage, Temecula Pkwy, Margarita, Jefferson	City limits	Add to network for deficient links with no capacity increase

Appendix H - TUMF Network Cost Estimate and Evaluation

For the purpose of calculating the "fair share" fee to be applied to new development under the TUMF program, a planning level cost estimate was developed to reflect the cost to complete improvements to the Regional System of Highways and Arterials to adequately accommodate future traffic growth. The planning level cost estimate was established by applying the unit cost values (presented in **Table 4.1**) to the proposed changes identified for the future Regional System of Highways and Arterials. The resultant cost value was tabulated for each unique segment of the network, by improvement type, based on the proposed list of improvements recommended following the review of the TUMF Network (as described in **Section 4.3**, **Appendix E** and **Appendix G**). A separate cost estimate was generated for regional transit improvements based on information provided by RTA and added to the summary table. The TUMF Network cost estimate table is summarized in **Table 4.4** of the Nexus Report. The detailed TUMF Network cost estimate table is included in this Appendix as **Exhibit H-1**. The detailed TUMF transit cost estimate table is included as **Table 4.5** of the Nexus Report.

Where existing obligated funding has previously been secured through traditional funding sources to complete necessary improvements to the TUMF Network, the cost of these improvements will not be recaptured from future developments through the TUMF program. As a result, the TUMF network cost was adjusted accordingly to reflect the availability of obligated funds.

WRCOG staff, in consultation with RCTC staff, reviewed the current Regional Transportation Improvement Program (RTIP) to identify transportation projects on the TUMF network that had previously secured alternate sources of funding. **Exhibit H-2** identifies those projects included on the TUMF Network having previously obligated funding.

To account for existing needs in the original TUMF Nexus Study, the cost for facilities identified as currently experiencing LOS E or F was adjusted by extracting the share of the cost to improve the portion of those facilities identified in the 2018 Baseline network scenario with a volume to capacity ratio of greater than 0.90, which is the threshold for LOS E. The adjustment to account for existing need as part of the TUMF Nexus Study provides for the mitigation of incremental traffic growth on those facilities with existing need.

The following approach was applied to account for incremental traffic growth associated with new development as part of the existing need methodology:

1. 1. Facilities with an existing need were identified by reviewing the RivCoM 2018 Baseline scenario assigned traffic on the 2021 existing network and delineating those facilities included on the TUMF Cost Fee Summary Table that have an average directional v/c exceeding 0.90.

H-1

a. Weighted directional v/c values were used to determine existing need for network segments, which was calculated by:

- i. Determining the length for the portion of each segment (model link), and calculating the ratio of link length to the overall segment length
- ii. Generating the average directional v/c for each link, for both directions in AM and PM periods, and multiplying by link/segment length ratio
- iii. Determining the maximum peak-period peak-direction v/c for each link, representing the highest directional v/c in either AM or PM
- iv. Calculating weighted average v/c for each TUMF segment, based on the sum of all weighted max v/c values of each link within a segment
- b. A similar method was used to determine existing need for spot improvements including interchanges, railroad crossings and bridges. However, no weighting was used in the calculation of existing need for spot improvements. For these facilities, the peak-period peak-direction v/c values (highest directional v/c in either AM or PM) were utilized in the existing need calculation. This was based on the individual link within a network segment where a bridge or railroad crossing is located, or onand off-ramps in the case of interchanges.
- 2. Initial costs of addressing the existing need were calculated by estimating the share of a particular roadway segments "new lane" cost, or individual spot improvement cost (including all associated ROW and soft costs).
- 3. Incremental growth in v/c was determined by comparing the average directional base year v/c for the TUMF facilities (delineated under step one) with the horizon year v/c for the corresponding segments and spot improvements calculated based on the RivCoM 2045 No-Build scenario assigned traffic on the 2021 existing network using the same methodology as the base year v/c.
- 4. The proportion of the incremental growth attributable to new development was determined by dividing the result of step three with the total 2045 No-Build scenario v/c in excess of LOS E.
- 5. For those segments experiencing a net increase in v/c over the base year, TUMF will 'discount' the cost of existing need improvements by the proportion of the incremental v/c growth through 2045 No-Build compared to the 2018 Baseline v/c (up to a maximum of 100%).

Exhibit H-2 includes a detailed breakdown of the existing highway improvement needs on the TUMF network, including the associated unfunded improvement cost estimate for each segment experiencing unacceptable LOS.

For transit service improvements, the cost to provide for existing demand was determined by multiplying the total transit component cost by the share of future

projected daily bus transit ridership representing existing demand. **Exhibit H-3** reflects the calculation of the existing transit need share and the existing transit need cost.

To validate the effectiveness of the TUMF Network improvements to mitigate the cumulative regional transportation impacts of new development in Western Riverside County, the future TUMF Network was evaluated. The proposed improvements to the Regional System of Highways and Arterials were coded on the 2021 existing network derived from RivCoM and the model was run to determine the relative impacts on traffic conditions. To quantify the impacts of the TUMF Network improvements, the various traffic measures of effectiveness described in **Section 3.1** for the 2018 Baseline and 2045 No-Build scenarios were calculated for the 2045 TUMF Build network scenario. The results for VMT, VHT, VHD, and total VMT experiencing unacceptable level of service (LOS E) were then compared to the results presented in **Table 3.1** for the no-build conditions. The consolidated results are provided in **Table 4.6**.

AREA PLAN		STREETNAME	SEGMENTFROM	SEGMENTTO	NETWORK	A 411 FC EVICTINICINI	FUTURELN	% COMPLETE INCREASELN MILES	ODO LANDUS	E INTERCLIC	BRIDGE	RRXING ITS	NEWLNCOST	ROWCOST	INTCHGCOST	BRDGCOST R	RXCOST ITSCOST	PLNG	ENC	CONTIG		Jpdated: July 23, 2024 MAXIMUM TUMF SHARE
Central	Menifee	Ethanac	Goetz	Murrieta	Backbone	0.99	4	4 0% 0.00	1	2	0	0 0	0 \$0	\$0	\$0) \$0	\$0	\$0 \$0	ENG \$0	\$0	\$0	\$0
Central	Menifee	Ethanac	Murrieta	I-215	Backbone	0.90	4	4 0% 0.00	1	2	0	0 0	0 \$0	\$0	\$00,550,000	\$0	\$0	\$0 \$0	\$0	\$0	\$0 \$32,698,000	\$0
Central Central	Menifee Menifee	Ethanac Ethanac	I-215 Sherman	interchange Matthews	Backbone Backbone	0.00	2	0 0% 0.00 4 0% 1.23	1	3	0	0 0	0 \$0 0 \$1,388,000	\$0 \$601,000	\$22,550,000) \$0) \$0	\$0 \$0	\$0 \$2,255,000 \$0 \$139,000	\$5,638,000 \$347,000	\$2,255,000 \$199,000		\$32,698,000 \$2,674,000
Central	Menifee	Ethanac	BNSF San Jacinto Branch	railroad crossing	Backbone	0.00	2	4 0% 0.00	i	3	Ö	0 1	0 \$0	\$0	\$0	\$0	\$72,800,000	\$0 \$7,280,000	\$18,200,000	\$7,280,000		\$105,560,000
Central	Menifee	Menifee	SR-74 (Pinacate)	Simpson	Backbone	2.50	2	4 88% 0.60	1	3	0	0 0	0 \$678,000	\$294,000	\$0	\$0	\$0	\$0 \$68,000	\$170,000	\$97,000	\$1,307,000	\$1,307,000
Central Central	Menifee Menifee	Menifee Menifee	Salt Creek Simpson	bridge Aldergate	Backbone Backbone	0.00 0.64	4	4 0% 0.00 4 0% 0.00	1	3	0	315 0	0 \$0	\$0 \$0	\$C \$C	\$3,024,000 \$0	\$0 \$0	\$0 \$302,000 \$0 \$0	\$756,000 \$0	\$302,000 \$0	\$4,384,000 \$0	\$4,384,000 \$0
Central	Menifee	Menifee	Aldergate	Newport	Backbone	0.98	4	4 0% 0.00	i	3	Ö	0 0	0 \$0	\$0	\$0	\$0	\$0	\$0 \$0	\$0	\$0	\$0	\$0
Central	Menifee	Menifee	Newport	Holland	Backbone	1.07	4	4 0% 0.00	1	3	0	0 0	0 \$0	\$0	\$0	\$0	\$0	\$0 \$0	\$0	\$0	\$0	\$0
Central Central	Menifee Menifee	Menifee Menifee	Holland Garbani	Garbani Scott	Backbone Backbone	1.03	2	4 0% 0.00 4 0% 2.00	i	3	0	0 0	0 \$0 0 \$2,260,000	\$0 \$978,000	\$C \$C) \$0) \$0	\$0 \$0	\$0 \$0 \$0 \$226,000	\$0 \$565,000	\$324,000	\$4,353,000	\$4,353,000
Central	Menifee	Menifee/Whitewood	Scott	Murrieta City Limit	Backbone	0.53	4	4 0% 0.00	i	3	0	0 0	0 \$0	\$0	\$0	\$0	\$0	\$0 \$0	\$0	\$0	\$0	\$0
Central	Menifee	Newport	Goetz Murrieta	Murrieta I-215	Backbone	1.81	6	6 0% 0.00 6 87% 0.52	1	3	0	0 0	0 \$0	\$0	\$0	\$0	\$0	\$0 \$0	\$0 \$1.47.000	\$0	\$0	\$0
Central Central	Menifee Menifee	Newport Newport	I-215	Menifee	Backbone Backbone	1.02	6	6 0% 0.00	i	3	0	0 0	0 \$586,000 0 \$0	\$254,000 \$0	\$0	\$0	\$0 \$0	\$0 \$59,000 \$0 \$0	\$147,000 \$0	\$84,000 \$0	\$1,130,000 \$0	\$1,130,000 \$0
Central	Menifee	Newport	Menifee	Lindenberger	Backbone	0.77	6	6 0% 0.00	1	3	0	0 0	0 \$0	\$0	\$0	\$0	\$0	\$0 \$0	\$0	\$0	\$0	\$0
Central	Menifee Menifee	Newport Scott	Lindenberger I-215	SR-79 (Winchester)	Backbone	3.58 1.98	6	6 0% 0.00 6 0% 3.96	1	3	0	0 0	0 \$0	\$0	\$0	\$0	\$0	\$0 \$0	\$1 121 000	\$0	\$0 \$8,635,000	\$0 \$8,635,000
Central Central	Menifee	Scott	I-215	Briggs interchange	Backbone Backbone	0.00	0	6 0% 3.96 0 0% 0.00	i	3	0	0 0	0 \$4,483,000 0 \$0	\$1,941,000 \$0	\$0	\$0	\$0 \$0	\$0 \$448,000 \$0 \$0	\$1,121,000 \$0	\$642,000 \$0	\$0,033,000	\$0,033,000
Central	Menifee	Scott	Sunset	Murrieta	Backbone	1.01	2	4 0% 2.01	1	3	0	0 0	0 \$2,278,000	\$986,000	\$0	\$0	\$0	\$0 \$228,000	\$570,000			\$4,388,000
Central Central	Menifee Menifee	Scott SR-74	Murrieta Matthews	I-215 Briggs	Backbone Backbone	1.94 1.89	2	6 0% 7.77 6 0% 3.79	1	3	0	0 0	0 \$8,799,000 0 \$4,285,000	\$3,809,000 \$1,855,000	\$0	\$0	\$0 \$0	\$0 \$880,000 \$0 \$429,000	\$2,200,000 \$1,071,000	\$1,261,000 \$614,000		\$12,949,000 \$8,254,000
Central	Moreno Valley		I-215	Perris	Backbone	3.52	4	6 75% 1.76	i	2	0	0 0	0 \$1,992,000	\$9,574,000	\$0	\$0	\$0	\$0 \$199,000	\$498,000			\$13,420,000
Central	Moreno Valley		Perris	Nason	Backbone	2.00	2	2 0% 0.00	1	2	0	0 0	0 \$0	\$0	\$0	\$0	\$0	\$0 \$0	\$0	\$0	\$0	\$0
Central Central	Moreno Valley Moreno Valley		Nason Moreno Beach	Moreno Beach Gilman Springs	Backbone Backbone	0.99 4.13	2	2 0% 0.00 4 0% 8.26	1	2	0	0 0	0 \$0 0 \$9,355,000	\$0 \$4.049.000	\$C \$C	\$0 \$0	\$0 \$0	\$0 \$0 \$0 \$936,000	\$0 \$2,339,000	\$0 \$1,340,000	\$0 \$18,019,000	\$0 \$18,019,000
Central		Gilman Springs	SR-60	Alessandro	Backbone	1.67	2	4 0% 3.34	i	3	o o	0 0	0 \$3,785,000	\$1,639,000	\$0	\$0	\$0	\$0 \$379,000	\$946,000			\$7,291,000
Central	Moreno Valley	Gilman Springs	SR-60	interchange	Backbone	0.00	0	0 0% 0.00	1	3	0	0 0	0 \$0	\$0	\$0	\$0	\$0	\$0 \$0	\$0	\$0	\$0	\$0
Central Central	Moreno Valley		Reche Vista	Ironwood	Backbone	2.09 0.52	2	2 0% 0.00 4 80% 0.00	1	2	0	0 0	0 \$0	\$0	\$0	\$0	\$0	\$0 \$0	\$0	\$0	\$0	\$0
Central	Moreno Valley Moreno Valley		Ironwood SR-60	Sunnymead interchange	Backbone Backbone	0.00	0	0 0% 0.00	i	2	3	0 0	0 \$0	\$0	\$22,550,000	\$0	\$0 \$0	\$0 \$2,255,000	\$5,638,000	\$2,255,000	\$32,698,000	\$11,192,000
Central	Moreno Valley	/ Perris	Sunnymead	Cactus	Backbone	2.00	4	4 25% 0.00	1	2	0	0 0	0 \$0	\$0	\$0	\$0	\$0	\$0 \$0	\$0	\$0	\$0	\$0
Central	Moreno Valley		Cactus	Harley Knox	Backbone	3.64	6	6 0% 0.00	1	2	0	0 0	0 \$0	\$0	\$0	\$0	\$0	\$0 \$0	\$0	\$0	\$0	\$0
Central Central	Moreno Valley Perris	11th/Case	Country Perris	Heacock Goetz	Backbone Backbone	0.44 0.30	2	4 0% 0.88 4 0% 0.60	1	2	0	0 0	0 \$1,531,000 0 \$680,000	\$4,787,000 \$3,269,000	\$C \$C) \$0) \$0	\$0 \$0	\$0 \$153,000 \$0 \$68,000	\$383,000 \$170,000	\$632,000 \$395.000	\$7,486,000 \$4,582,000	\$3,799,000 \$4,582,000
Central	Perris	Case	Goetz	I-215	Backbone	2.36	2	4 42% 2.74	i	2	0	0 0	0 \$3,099,000	\$14,893,000	\$0	\$0	\$0	\$0 \$310,000	\$775,000	\$1,799,000	\$20,876,000	\$20,876,000
Central	Perris	Case	San Jacinto River	bridge	Backbone	0.00	2	4 0% 0.00	1	2	0	125 0	0 \$0	\$0	\$0	\$1,200,000	\$0	\$0 \$120,000	\$300,000	\$120,000		\$1,235,000
Central Central	Perris Perris	Ethanac Ethanac	Keystone San Jacinto River	Goetz bridge	Backbone Backbone	2.24 0.00	0	2 38% 2.78 2 0% 0.00	1	3	0	400 0	0 \$3,144,000	\$1,361,000	\$C \$C	\$0 \$3,840,000	\$0 \$0	\$0 \$314,000 \$0 \$384,000	\$786,000 \$960,000	\$451,000 \$384,000	\$6,056,000 \$5,568,000	\$6,056,000 \$5,568,000
Central	Perris	Ethanac	1-215	Sherman	Backbone	0.35	2	4 0% 0.70	i	2	Ö	0 0	0 \$789,000	\$3,793,000	\$0	\$0	\$0	\$0 \$79,000	\$197,000			\$5,316,000
Central	Perris	Goetz	Case	Ethanac	Backbone	2.16	2	4 84% 0.69	1	3	0	0 0	0 \$782,000	\$339,000	\$0	\$0	\$0	\$0 \$78,000	\$196,000			\$999,000
Central Central	Perris Perris	Goetz Mid-County (Placentia)	San Jacinto River I-215	bridge Perris	Backbone Backbone	0.00	2	4 0% 0.00 4 41% 2.05	1	3	0	400 0	0 \$2,324,000	\$0 \$11,169,000	\$0	\$3,840,000	\$0 \$0	\$0 \$384,000 \$0 \$232,000	\$960,000 \$581,000	\$384,000 \$1,349,000		\$3,398,000 \$15,655,000
Central	Perris	Mid-County (Placentia)	I-215	interchange	Backbone	0.00	0	0 0% 0.00	i	2	0	0 0	0 \$0	\$0	\$0	\$0	\$0	\$0 \$202,000	\$0	\$0	\$0	\$0
Central	Perris	Mid-County (Placentia)	Perris	Evans	Backbone	1.57	0	4 52% 3.01	1	2	0	0 0	0 \$3,412,000	\$16,398,000	\$0	\$0	\$0	\$0 \$341,000	\$853,000			\$22,985,000
Central Central	Perris Perris	Mid-County (Placentia) Perris	Perris Valley Storm Channel Harley Knox	bridge Ramona	Backbone Backbone	0.00	0	4 0% 0.00 6 0% 0.00	1	2	0	300 0	0 \$0	\$0 \$0	\$0	\$5,760,000	\$0 \$0	\$0 \$576,000 \$0 \$0	\$1,440,000	\$576,000	\$8,352,000	\$8,352,000
Central	Perris	Perris	Ramona	Citrus	Backbone	2.49	4	6 35% 3.24	i	3	0	0 0	0 \$3,667,000	\$1,587,000	\$0	\$0	\$0	\$0 \$367,000	\$917,000	\$525,000	\$7,063,000	\$7,063,000
Central	Perris	Perris	Citrus	Nuevo	Backbone	0.50	6	6 0% 0.00	1	3	0	0 0	0 \$0	\$0	\$0	\$0	\$0	\$0 \$0	\$0	\$0	\$0	\$0
Central	Perris Perris	Perris Perris	Nuevo	11th	Backbone	1.75 0.00	2	4 74% 0.91 4 0% 0.00	1	2	0	0 0	0 \$1,028,000	\$4,942,000 \$0	\$0	\$0	\$0	\$0 \$103,000 \$0 \$0	\$257,000 \$0	\$597,000 \$0	\$6,927,000	\$6,927,000 \$0
Central Central	Perris	Ramona	I-215 overcrossing I-215	bridge Perris	Backbone Backbone	1.44	4	6 77% 0.66	i	2	0	0 0	0 \$748,000	\$3,595,000	\$C) \$0) \$0	\$0 \$0	\$0 \$75,000			\$5,039,000	\$5,039,000
Central	Perris	Ramona	I-215	interchange	Backbone	0.00	0	0 0% 0.00	1	2	3	0 0	0 \$0	\$0	\$22,550,000	\$0	\$0	\$0 \$2,255,000				\$7,725,000
Central	Perris	Ramona	Perris	Evans	Backbone	1.00	6	6 0% 0.00	1	2	0	0 0	0 \$0	\$0	\$0	\$0	\$0	\$0 \$0	\$0	\$0	\$0	\$0
Central Central	Perris Perris	Ramona SR-74 (4th)	Evans Fllis	Mid-County (2,800 ft E of Rider) I-215	Backbone Backbone	2.62 2.33	4	4 0% 0.00 4 0% 0.00	1	2	0	0 0	0 \$0	\$0 \$0	\$C \$C) \$0) \$0	\$0 \$0	\$0 \$0 \$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
Central	Unincorporate		SR-74	Keystone	Backbone	1.07	0	2 0% 2.14	i	3	Ö	0 0	0 \$2,422,000	\$1,049,000	\$0	\$0	\$0	\$0 \$242,000	\$606,000	\$347,000	\$4,666,000	\$4,666,000
Central		ed Gilman Springs	Alessandro	Bridge Road	Backbone	5.00	2	4 0% 9.99	2	3	0	0 0	0 \$17,389,000	\$4,897,000	\$0	\$0	\$0	\$0 \$1,739,000	\$4,347,000			\$30,601,000
Central Central	Unincorporate Unincorporate		Nuevo Evans	SR-74 (Pinacate) Ramona (2,800 ft E of Rider)	Backbone Backbone	4.07 0.77	2	4 6% 7.65 4 0% 3.08	1	3	0	0 0	0 \$8,662,000 0 \$7,238,000	\$3,749,000 \$1,509,000	\$0	\$0 \$0	\$0 \$0	\$0 \$866,000 \$0 \$724,000	\$2,166,000 \$1,810,000	\$1,241,000 \$875,000		\$16,684,000 \$12,156,000
Central		ed Mid-County (Ramona)	Ramona (2,800 ft E of Rider)	Pico Avenue	Backbone	0.44	4	4 0% 0.00	1	3	o o	0 0	0 \$0	\$0	\$0	\$0	\$0	\$0 \$0 \$0	\$0	\$0	\$0	\$0
Central		d Mid-County (Ramona)	Pico Avenue	Bridge Road	Backbone	5.95	2	6 8% 21.91	1	3	0	0 0	0 \$24,800,000	\$10,735,000	\$0	\$0	\$0	\$0 \$2,480,000		\$3,554,000		\$47,769,000
Central Central		ed Mid-County (Ramona) ed Reche Canyon	San Jacinto River San Bernardino County	bridge Reche Vista	Backbone Backbone	0.00 3.35	2	6 0% 0.00 2 0% 0.00	3	3	0 1	,300 0	0 \$0	\$0 \$0	\$C \$C	\$24,960,000	\$0 \$0	\$0 \$2,496,000 \$0 \$0	\$6,240,000 \$0	\$2,496,000 \$0	\$36,192,000 \$0	\$36,192,000 \$0
Central	Unincorporate		Reche Canyon	Country	Backbone	1.22	2	2 0% 0.00	2	2	Ö	0 0	0 \$0	\$0	\$0	\$0	\$0	\$0 \$0	\$0	\$0	\$0	\$0
Central	Unincorporate		Briggs	SR-79 (Winchester)	Backbone	3.04	2	2 0% 0.00	1	3	0	0 0	0 \$0	\$0	\$0	\$0	\$0	\$0 \$0	\$0	\$0	\$0	\$0
Central Northwest	Unincorporate Corona	ed SR-74 Cajalco	Ethanac I-15	Temescal Canyon	Backbone Backbone	2.72 0.50	4	4 0% 0.00 4 0% 0.00	2	3	0	0 0	0 \$0	\$0 \$0	\$C \$C) \$0) \$0	\$0 \$0	\$0 \$0 \$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
Northwest	Corona	Cajalco	I-15	interchange	Backbone	0.00	0	0 0% 0.00	i	2	o o	0 0	0 \$0	\$0	\$0	\$0	\$0	\$0 \$0	\$0	\$0	\$0	\$0
Northwest	Corona	Foothill	Paseo Grande	Lincoln	Backbone	2.60	4	4 0% 0.00	3	3	0	0 0	0 \$0	\$0	\$0	\$0	\$0	\$0 \$0	\$0	\$0	\$0	\$0
Northwest Northwest	Corona Corona	Foothill Foothill	Wardlow Wash Lincoln	bridge California	Backbone Backbone	0.00 2.81	4	4 0% 0.00 4 0% 0.00	3	3	0	300 0	0 \$0	\$0 \$0	\$0	\$0 \$0	\$0 \$0	\$0 \$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
Northwest	Corona	Foothill	California	I-15	Backbone	0.89	4	4 0% 0.00	i	2	Ö	0 0	0 \$0	\$0	\$0	\$0	\$0	\$0 \$0	\$0	\$0	\$0	\$0
Northwest	Corona	Green River	SR-91	Dominguez Ranch	Backbone	0.52	6	6 0% 0.00	1	2	0	0 0	0 \$0	\$0	\$0	\$0	\$0	\$0 \$0	\$0	\$0	\$0	\$0
Northwest Northwest	Corona Corona	Green River Green River	Dominguez Ranch Palisades	Palisades Paseo Grande	Backbone Backbone	0.56 2.01	6	6 0% 0.00 4 0% 0.00	2	2	0	0 0	0 \$0	\$0 \$0	\$C \$C) \$0) \$0	\$0 \$0	\$0 \$0 \$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
Northwest	Eastvale	Schleisman	San Bernardino County	600' e/o Cucamonga Creek	Backbone	0.65	6	6 0% 0.00	ĺ	2	o o	0 0	1 \$0	\$0	\$0	\$0	\$0 \$44	5,000 \$45,000	\$112,000	\$45,000	\$648,000	\$648,000
Northwest	Eastvale	Schleisman	Cucamonga Creek	bridge	Backbone	0.00	6	6 0% 0.00	1	2	0	200 0	0 \$0	\$0	\$0		\$0	\$0 \$0	\$0	\$0	\$0	\$0
Northwest	Eastvale Eastvale	Schleisman	600' e/o Cucamonga Creek		Backbone	0.87 0.49	6	6 0% 0.00	1	2	0	0 0	1 \$0	\$0	\$0 \$0	\$0		7,000 \$60,000				\$866,000 \$488,000
Northwest Northwest	Eastvale	Schleisman Schleisman	Harrison Sumner	Sumner Scholar	Backbone Backbone	0.50	2	4 0% 0.00 4 0% 1.00	i	2	0	0 0	0 \$1,132,000	\$5,440,000	\$0) \$0) \$0	\$0 \$33 \$0	6,000 \$34,000 \$0 \$113,000	\$84,000 \$283,000	\$34,000 \$657,000		\$7,625,000
Northwest	Eastvale	Schleisman	Scholar	A Street	Backbone	0.31	5	6 95% 0.02	1	2	0	0 0	0 \$18,000	\$84,000	\$0		\$0	\$0 \$2,000	\$5,000	\$10,000	\$119,000	\$119,000
Northwest	Eastvale	Schleisman	A Street	Hamner	Backbone	0.27	4	6 95% 0.03	1	2	0	0 0	0 \$31,000	\$149,000	\$0	\$0	\$0	\$0 \$3,000	\$8,000	\$18,000		\$209,000
Northwest Northwest	Jurupa Valley Jurupa Valley		SR-60 Bellegrave	Bellegrave Santa Ana River	Backbone Backbone	1.57 3.99	4	6 0% 3.14 6 0% 7.99	1	2	0	0 0	0 \$3,552,000 0 \$9,041,000	\$17,071,000 \$43,446,000	\$0 \$0) \$U	\$0 \$0	\$0 \$355,000 \$0 \$904,000	\$888,000 \$2,260,000	\$2,062,000 \$5,249,000		\$10,461,000 \$0
Northwest	Riverside	Alessandro	Arlington	Trautwein	Backbone	2.42	6	6 0% 0.00	2	2	Ö	0 0	1 \$0	\$0	\$0			2,000 \$166,000	\$416,000			\$2,410,000
Northwest	Riverside	Arlington	La Sierra	Magnolia	Backbone	5.84	4	4 0% 0.00	1	2	0	0 0	0 \$0	\$0	\$0		\$0	\$0 \$0	\$0	\$0	\$0	\$0
Northwest Northwest	Riverside Riverside	Arlington Van Buren	Magnolia Santa Ana River	Alessandro SR-91	Backbone Backbone	2.73 3.81	4	6 0% 5.46 6 91% 0.69	2	2	0	0 0	0 \$9,504,000 0 \$776,000	\$29,713,000 \$3,731,000	\$0 \$0		\$0 \$0	\$0 \$950,000 \$0 \$78,000	\$2,376,000 \$194,000			\$46,465,000 \$4,392,000
Northwest	Riverside	Van Buren	SR-91	Mockingbird Canyon	Backbone	3.08	4	6 16% 5.18	i	2	0	0 0	0 \$5,863,000	\$28,174,000	\$0		\$0	\$0 \$586,000				\$21,292,000
Northwest	Riverside	Van Buren	Wood	Trautwein	Backbone	0.43	6	6 0% 0.00	1	2	0	0 0	0 \$0	\$0	\$0		\$0	\$0 \$0	\$0	\$0	\$0	\$0
Northwest	Riverside Unincorporate	Van Buren	Trautwein Trautwein	Orange Terrace Vista Grande	Backbone	1.27	5	6 22% 0.99 6 0% 0.00	1	2	0	0 0	0 \$1,124,000 0 \$0	\$5,404,000 \$0	\$0 \$0		\$0 \$0	\$0 \$112,000 \$0 \$0	\$281,000 \$0			\$7,574,000 \$0
Northwest Northwest	Unincorporate Unincorporate		Trautwein Vista Grande	Vista Grande I-215	Backbone Backbone	1.22 1.26	6	6 0% 0.00 6 0% 0.00	2	2	0	0 0	0 \$0	\$0 \$0	\$C	, 50 \$0	φυ \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
Northwest	Unincorporate	ed Cajalco	El Sobrante	Harley John	Backbone	0.86	2	6 0% 3.46	2	3	0	0 0	0 \$6,012,000	\$1,693,000	\$0	\$0	\$0	\$0 \$601,000				\$9,817,000
Northwest Northwest	Unincorporate Unincorporate		Harley John Harvil	Harvil I-215	Backbone Backbone	5.81 0.28	2	6 6% 21.83 6 0% 0.57	1	2	0	0 0	0 \$24,716,000 0 \$643,000	\$118,776,000 \$278,000	\$0 \$0	\$0	\$0 \$0	\$0 \$2,472,000 \$0 \$64,000	\$6,179,000 \$161,000	\$14,349,000 \$92,000		\$166,492,000 \$1,238,000
Northwest	Unincorporate		Temescal Canyon	La Sierra	Backbone	3.21	2	6 2% 12.57	3	3	0	0 0	0 \$29,533,000	\$6,158,000	\$C	, 50) \$0	\$0	\$0 \$2,953,000	\$7,383,000	\$3,569,000		\$35,953,000
Northwest		ed Cajalco	Temescal Wash	bridge	Backbone	0.00	2	6 0% 0.00	3	3	0	175 0	0 \$0	\$0	\$0	\$3,360,000	\$0	\$0 \$336,000	\$840,000	\$336,000	\$4,872,000	\$1,907,000
				El Sobrante	Backbone	6.11	2	6 0% 24.44	3	· ·				\$11,976,000	\$0	1 \$∩	% O	\$0 \$5,743,000	\$14,359,000	\$6,941,000		\$96,453,000
Northwest Northwest	Unincorporate Unincorporate		La Sierra Mockingbird Canyon	Wood	Backbone	4.42	4	6 0% 8.84	1	2	0	0 0	0 \$57,434,000 0 \$10,010,000	\$48,104,000	\$0	\$0	\$0	\$0 \$1,001,000	\$2,503,000			\$67,429,000

EXHIBIT		F Network Detailed																							odated: July 23, 2024
AREA PLAN D		STREETNAME	SEGMENTFROM	SEGMENTTO	NETWORK	MILES EXIS	TINGLN FUTURE	EN % COMPLETE INCR	REASELN MILES TO	PO LANDUSE	INTERCHG	BRIDGE	RRXING	ITS	NEWLNCOST R	OWCOST	NTCHGCOST	BRDGCOST	RRXCOST ITSCO	ST	PLNG E	NG C	ONTIG TO	OTAL COST N	IAXIMUM TUMF SHARE
Pass	Banning Bannina	Highland Springs	Wilson (8th)	Sun Lakes interchange	Backbone Backbone	0.76	4	4 0% 0 0%	0.00	1	2	0	0	0	50	\$0	\$43,490,000	3 \$0	\$0	\$0	\$4,349,000	\$10.873.000	\$4,349,000	\$63,061,000	\$0 \$32,516,000
Parr	Banning	Highland Springs Highland Springs	Oak Valley (14th)	Wilson (8th)	Backbone	0.73	4	4 0%	0.00	1	2	2	0	0) \$0	\$O	\$43,470,000) \$0	\$O	\$0	\$4,347,000 \$0	\$10,673,000	\$4,347,000 ¢0	\$03,001,000 \$0	\$32,316,000
Pare	Bannina	Highland Springs	Cherry Valley	Oak Valley (14th)	Backbone	1.53	2	2 0%	0.00	1	2	0	0	0) \$0	\$0	φ() \$0	\$O	\$0	φ0 •0	\$0	\$O	\$O	\$U \$O
Pass	Bannina	I-10 Bypass South	I-10	Morongo Trail (Apache Trail)	Backbone	3.29	0	2 0%	6.57	i	2	0	0	n	37,439,000	\$35.748.000	φι \$1) \$0	\$0 \$0	\$0 \$0	\$744.000	\$1.860.000	\$4.319.000	\$50.110.000	\$50,110,000
Pass	Banning	I-10 Bypass South	I-10	interchange	Backbone	0.00	0	0 0%	0.00	i	2	2	0	n	0 \$7,437,000 0 \$0	\$33,748,000	\$43,490,000	5 \$0	\$0 \$0	\$0	\$4,349,000	\$10,873,000	\$4,349,000	\$63,061,000	\$63,061,000
Pass	Bannina	I-10 Bypass South	San Gorgonio	bridge	Backbone	0.00	0	2 0%	0.00	i	2	0 :	300	0	0 \$0	\$0	\$(0,470,000		\$O	\$0	\$288,000	\$720,000	\$288,000	\$4.176.000	\$4,176,000
Pass	Bannina	I-10 Bypass South	UP/Hargrave	railroad crossina	Backbone	0.00	0	2 0%	0.00	i	2	0	0	1	50 \$0	\$0	\$(\$0.500	\$36,400,000	\$0	\$3,640,000	\$9,100,000	\$3,640,000	\$52,780,000	\$52,780,000
Pass	Beaumont	Beaumont	Oak Valley (14th)	I-10	Backbone	1.37	4	4 0%	0.00	i	2	ō	Ō	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Pass	Beaumont	Potrero	Oak Valley (San Timoteo Co	any SR-60	Backbone	0.72	2	4 65%	0.50	1	3	0	0	0	\$571,000	\$247,000	\$0	\$0	\$0	\$0	\$57,000	\$143,000	\$82,000	\$1,100,000	\$1,100,000
Pass	Beaumont	Potrero	SR-60	interchange	Backbone	0.00	0	0 0%	0.00	1	3	2	0	0	0 \$0	\$0	\$43,490,000	50	\$0	\$0	\$4,349,000	\$10,873,000	\$4,349,000	\$63,061,000	\$29,561,000
Pass	Beaumont	Potrero	UP	railroad crossing	Backbone	0.00	4	4 0%	0.00	1	3	0	0	2	0 \$0	\$0	\$0	\$0	\$27,600,000	\$0	\$2,760,000	\$6,900,000	\$2,760,000	\$40,020,000	\$40,020,000
Pass	Beaumont	Potrero	Noble Creek	bridge	Backbone	0.00	4	4 0%	0.00	1	3	0 !	500	0	0 \$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Pass	Beaumont	Potrero	SR-60	4th	Backbone	0.45	4	4 0%	0.00	1	3	0	0	0	0 \$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Pass	Beaumont	SR-79 (Beaumont)	I-10	California	Backbone	1.15	4	4 0%	0.00	1	2	0	0	0	0 \$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Pass	Beaumont	SR-79 (Beaumont)	I-10	interchange	Backbone	0.00	0	0 0%	0.00	1	2	2	0	0	0 \$0	\$0	\$43,490,000		\$0	\$0	\$4,349,000	\$10,873,000	\$4,349,000	\$63,061,000	\$7,408,000
Pass	Calimesa	Cherry Valley	I-10	interchange	Backbone	0.00	0	0 0%	0.00	1	3	2	0	0	0 \$0	\$0	\$43,490,000	0 \$0	\$0	\$0	\$4,349,000	\$10,873,000	\$4,349,000	\$63,061,000	\$59,773,000
Pass	Calimesa	Cherry Valley	Roberts St	Roberts Rd	Backbone	0.70	2	4 0%	1.40	1	3	0	0	0	0 \$1,585,000	\$686,000	\$0	\$0	\$0	\$0	\$159,000	\$396,000	\$227,000	\$3,053,000	\$3,053,000
Pass		ed Cherry Valley	Bellflower	Noble	Backbone	1.47	0	2 0%	2.94	1	3	0	0	0	3,328,000	\$1,441,000	\$0	50 \$0	\$0	\$0	\$333,000	\$832,000	\$477,000	\$6,411,000	\$6,411,000
Pass		ed Cherry Valley	Highland Springs	Bellflower	Backbone	0.44	2	2 0%	0.00	1	3	0	0	0	0 \$0	\$0	\$0	50 \$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Pass		ed Cherry Valley	Noble	Roberts St	Backbone	3.25	2	2 0%	0.00	1	3	0	0	0	0 \$0	\$0	\$0	50	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Pass		ed Cherry Valley	San Timoteo Wash	bridge	Backbone	0.00	2	2 0%	0.00	1	3	0 3	300	0	0 \$0	\$0	\$0	50 \$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Pass		ed SR-79 (Lamb Canyon)	California	Gilman Springs	Backbone	5.23	4	4 0%	0.00	2	3	0	0	0	\$0	\$0	\$0	50	\$0	\$0	\$0	\$0	\$0	\$0	\$0
San Jacinto	Hemet	Domenigoni	Warren	Sanderson	Backbone	1.77	4	6 0%	3.54	!	3	0	0	0	0 \$4,011,000	\$1,736,000	\$(\$0	\$0	\$0	\$401,000	\$1,003,000	\$575,000	\$7,726,000	\$7,726,000
San Jacinto	Hemet	Domenigoni	Sanderson	State	Backbone	2.14	4	4 0%	0.00	!	3	0	0	0	50	\$0	\$(\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
San Jacinto	Hemet	SR-74	Winchester	Warren	Backbone	2.59 1.73	4	6 11%	4.62		2	0	0	0	5,227,000	\$25,117,000	\$(30	\$0	\$0	\$523,000	\$1,307,000	\$3,034,000	\$35,208,000	\$35,208,000
San Jacinto	San Jacinto	Mid-County (Ramona)	Warren	Sanderson	Backbone	0.00	4	4 0%	0.00		2	0	0	0	J \$0	\$0	\$(30	\$0	\$0	\$0	\$0	\$0	\$0	\$0
San Jacinto	San Jacinto	Mid-County (Ramona)	Sanderson/SR-79 (Hemet By		Backbone		0	0 0%		!	2	0	0	Û	J \$0	\$0	\$(30	\$0	\$0	\$0	\$0	\$0	\$0	\$0
San Jacinto	San Jacinto	Ramona	Sanderson	State Main	Backbone Backbone	2.39	0	6 0% 4 0%	0.00		2	0	0	0	J \$0	\$0	\$(30	\$0	\$0	\$0	\$0	\$0	\$0	\$0
San Jacinto	San Jacinto San Jacinto	Ramona Ramona	State Main	Cedar	Backbone	2.40	4	4 57%	4.13	1	2	0	0	0	0 \$4,679,000	\$22.485.000	φ() \$0)	\$0	\$U	\$468,000	\$1,170,000	\$2,716,000	\$31,518,000	\$26,928,000
San Jacinto San Jacinto	San Jacinto	Ramona	Cedar	SR-74	Backbone	1.10	4	4 0%	0.00	1	2	0	0	0) \$4,677,000 n \$n	\$22,403,000	φ() \$0	\$O	\$0	\$400,000 \$0	\$1,170,000	\$2,710,000 ¢n	φ31,310,000 0\$	\$26,726,000
San Jacinto		ed Domeniaoni	SR-79 (Winchester)	Warren	Backbone	3.10	4	6 0%	6.20		2	0	0	n	\$7,013,000	\$3,036,000	φι ¢r) \$0)	\$O	\$0	\$701,000	\$1,753,000	\$1,005,000	\$13.508.000	\$13,508,000
San Jacinto		ed Domenigoni	San Diego Aqueduct	bridge	Backbone	0.00	4	6 0%	0.00	i	3	0 1	300	n	ο φ <i>τ</i> ,στο,σσο ο \$ ο	\$3,036,000 \$0	φι \$1	\$2.880,000	\$0	\$0 \$0	\$288.000	\$720,000	\$288,000	\$4,176,000	\$4,176,000
San Jacinto		ed Gilman Sprinas	Bridge	Sanderson	Backbone	2.95	2	2 0%	0.00	i	3	0	0	n	n \$0	\$0	\$() \$2,000,000) \$0	\$0	\$0	\$00,000 \$0	Ψ7 20,000 \$0	Ψ200,000 \$0	\$0	\$0
San Jacinto		ed Mid-County (Ramona)	Bridge	Warren	Backbone	2.35	2	4 10%	4.23	i	3	0	0	n	3 \$4,787,000	\$2,072,000	\$(\$0	\$0	\$0	\$479,000	\$1,197,000	\$686,000	\$9,221,000	\$9,221,000
San Jacinto	Unincorporate		Briggs	SR-79 (Winchester)	Backbone	3.54	4	6 0%	7.07	i	3	0	0	0	38.004.000	\$3,465,000	\$(\$0	\$0	\$0	\$800,000	\$2,001,000	\$1,147,000	\$15,417,000	\$15,417,000
San Jacinto		ed SR-79 (Hemet Bypass)	SR-74 (Florida)	Domenigoni	Backbone	3.22	0	2 1%	6.38	i	3	0	0	0	5 \$7,217,000	\$3,124,000	\$(\$0	\$0	\$0	\$722,000	\$1,804,000	\$1,034,000	\$13,901,000	\$13.901.000
San Jacinto		ed SR-79 (Hemet Bypass)	San Diego Aqueduct	bridge	Backbone	0.00	0	2 0%	0.00	i	3	0 :	300	0	0 \$0	\$0	\$(\$2.880.000	\$0	\$0	\$288,000	\$720,000	\$288,000	\$4,176,000	\$4.176.000
San Jacinto		ed SR-79 (Hemet Bypass)	Domeniaoni	Winchester	Backbone	1.50	Ö	2 0%	3.00	i	3	ō .	0	0	\$3,396,000	\$1.470.000	\$0	\$0	\$0	\$0	\$340,000	\$849,000	\$487,000	\$6,542,000	\$6,542,000
San Jacinto	Unincorporate	ed SR-79 (San Jacinto Bypass)	Mid-County (Ramona)	SR-74 (Florida)	Backbone	6.50	0	4 0%	26.00	1	3	0	0	0	\$29,432,000	\$12,740,000	\$0	\$0	\$0	\$0	\$2,943,000	\$7,358,000	\$4,217,000	\$56,690,000	\$56,690,000
San Jacinto		ed SR-79 (Sanderson)	Gilman Sprinas	Ramona	Backbone	1.58	4	6 0%	3.16	1	3	0	0	0	33.582.000	\$1,550,000	\$0	\$0	\$0	\$0	\$358,000	\$896,000	\$513,000	\$6.899,000	\$2.555,000
San Jacinto	Unincorporate	ed SR-79 (Sanderson)	San Jacinto River	bridge	Backbone	0.00	4	6 0%	0.00	1	3	0 1,4	100	0	0 \$0	\$0	\$0	\$13,440,000	\$0	\$0	\$1,344,000	\$3,360,000	\$1,344,000	\$19,488,000	\$7,651,000
San Jacinto		ed SR-79 (Winchester)	Domenigoni	Keller	Backbone	4.90	4	6 13%	8.53	1	2	0	0	0	9,653,000	\$46,387,000	\$0	\$0	\$0	\$0	\$965,000	\$2,413,000	\$5,604,000	\$65,022,000	\$65,022,000
Southwest	Canyon Lake	Goetz	Railroad Canyon	Newport	Backbone	0.50	4	4 0%	0.00	2	2	0	0	0	0 \$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Southwest	Canyon Lake	Railroad Canyon	Canyon Hills	Goetz	Backbone	1.95	6	6 0%	0.00	2	2	0	0	0	0 \$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Southwest	Lake Elsinore		I-15	Canyon Hills	Backbone	2.36	6	6 50%	0.00	1	3	0	0	0	0 \$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Southwest	Lake Elsinore	Railroad Canyon	I-15	interchange	Backbone	0.00	0	0 0%	0.00	1	3	0	0	0	0 \$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Southwest	Lake Elsinore		I-15	interchange	Backbone	0.00	0	0 0%	0.00	1	3	2	0	0	0 \$0	\$0	\$43,490,000	50 \$0	\$0	\$0	\$4,349,000	\$10,873,000	\$4,349,000	\$63,061,000	\$24,162,000
Southwest	Murrieta	Clinton Keith	Copper Craft	Toulon	Backbone	1.31	6	6 0%	0.00	1	3	0	0	0	50 \$0	\$0	\$0	50 \$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Southwest	Murrieta	Clinton Keith	Toulon	I-215	Backbone	0.90	4	6 47%	0.95	1	3	0	0	0	\$1,078,000	\$466,000	\$0	50 \$0	\$0	\$0	\$108,000	\$270,000	\$154,000	\$2,076,000	\$2,076,000
Southwest	Murrieta	Clinton Keith	I-215	Whitewood	Backbone	0.75	6	6 0%	0.00	1	3	0	0	0	50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Southwest	Murrieta	French Valley (Date)	Murrieta Hot Springs	Winchester Creek	Backbone	0.24	0	4 0%	0.96	!	2	0	0	0	0 \$1,087,000	\$5,222,000	\$0	\$0	\$0	\$0	\$109,000	\$272,000	\$631,000	\$7,321,000	\$7,321,000
Southwest	Murrieta	French Valley (Date)	Winchester Creek	Margarita	Backbone	0.61	4	4 0%	0.00	!	2	0	0	0	50	\$0	\$(\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Southwest	Murrieta	Whitewood	Menifee City Limit Keller	Keller	Backbone	0.55	4	4 0%	0.00	1	3	0	0	0	0 \$0	\$0	\$(\$0	\$0	\$0	\$0 \$0	\$0	\$0	\$0	\$0
Southwest	Murrieta	Whitewood		Clinton Keith	Backbone	2.00	4	4 0% 2 54%	0.00 0.52	1	3	0	0	0	3 \$583.000	\$2,803,000	D)	30	\$0	20	\$58.000	\$146.000	\$339,000	\$3,929,000	\$3,929,000
Southwest Southwest	Temecula Temecula	French Valley (Cherry) French Valley (Cherry)	Jefferson Murrieta Creek	Diaz bridae	Backbone Backbone	0.56	0	2 54%	0.52	1	2	0	120	n .	0 \$583,000 0 \$0	\$2,803,000	φ. Þ	\$4.032.000	φU	φO	\$403,000	\$1,008,000	\$339,000	\$5,846,000	\$3,929,000 \$5,846,000
Southwest	Temecula	French Valley (Date)	Margarita	Ynez	Backbone	0.00	4	4 0%	0.00	i	2	0	0	n .) \$0	&∪ ⊅∩	φı	, φ 4 ,υυ2,υυυ γ ¢∩	φυ «n	φu ¢n	\$403,000 \$0	φ1,000,000 Ω\$	\$403,000 \$0	φυ,υ + υ,υ00 ↑	φυ,υ 4 υ,υυ0 (Ω
Southwest	Temecula	French Valley (Date)	Ynez	Jefferson	Backbone	0.73	0	2 55%	0.66	i	2	0	0	n .	0 \$744,000	\$3,574,000	φ.) \$0	φυ \$0	φU ¢n	\$74,000	\$186,000	\$432,000	\$5,010,000	\$5,010,000
Southwest	Temecula	French Valley (Date)	I-15	interchange	Backbone	0.73	0	0 0%	0.00	i	2	ĭ	0	0	0 \$0	\$3,374,000	\$84,190,000) \$0	\$0	\$0	\$8,419,000	\$21,048,000	\$8,419,000	\$122,076,000	\$122,076,000
Southwest	Temecula	SR-79 (Winchester)	Murrieta Hot Sprinas	lefferson	Backbone	2.71	6	6 0%	0.00	i	ī	0	0	Ď.	1 \$0	\$O	φυ -1 , 1 7 0,000 ¢r) (0	\$0	\$1.860.000	\$186,000	\$465,000	\$186,000	\$2,697,000	\$2,697,000
Southwest	Temecula	SR-79 (Winchester)	I-15	interchange	Backbone	0.00	0	0 0%	0.00	i	i	0	0	0	. 40 n \$n	\$0	φ. 12) \$O	\$0	\$0	\$n	\$n	\$.00,000 \$0	\$n	\$0
Southwest	Temecula	Western Bypass (Diaz)	Cherry	Rancho California	Backbone	2.14	0	2 93%	0.30	i	2	0	0	0	5 \$339,000	\$1.630.000	\$1) \$n	\$0	\$0	\$34,000	\$85,000	\$197.000	\$2,285,000	\$2.285.000
Southwest	Temecula	Western Bypass (Vincent Mo		SR-79 (Front)	Backbone	1.48	0	2 15%	2.52	3	2	0	0	n	5,913,000	\$13,687,000	\$(\$0	\$0	\$0	\$591,000	\$1,478,000	\$1,960,000	\$23,629,000	\$23,629,000
Southwest	Temecula	Western Bypass (Vincent Ma		interchange	Backbone	0.00	0	0 0%	0.00	3	2	0	0	0	0 \$0	\$0	\$(\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Southwest	Temecula	Western Bypass (Vincent Mo		bridge	Backbone	0.00	0	2 0%	0.00	3	2	0 3	300	0	\$0	\$0	\$0	\$2.880.000	\$0	\$0	\$288,000	\$720,000	\$288,000	\$4,176,000	\$4,176,000
Southwest	Unincorporate	ed Benton	SR-79	Eastern Bypass	Backbone	2.40	2	2 0%	0.00	1	3	0	0	0	0 \$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Southwest	Unincorporate	ed Clinton Keith	Whitewood	SR-79	Backbone	2.54	0	4 75%	2.54	1	3	0	0	0	0 \$2,875,000	\$1,245,000	\$0	\$0	\$0	\$0	\$288,000	\$719,000	\$412,000	\$5,539,000	\$5,539,000
Southwest	Unincorporate	ed Clinton Keith	Warm Springs Creek	bridge	Backbone	0.00	4	4 0%	0.00	1	3	0 1,2	200	0	0 \$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Southwest	Unincorporate	ed SR-74	I-15	Ethanac	Backbone	4.97	4	6 9%	9.05	2	3	0	0	0	\$15,740,000	\$4,433,000	\$0	\$0	\$0	\$0	\$1,574,000	\$3,935,000	\$2,017,000	\$27,699,000	\$26,347,000
Southwest	Unincorporate	ed SR-79 (Winchester)	Keller	Thompson	Backbone	2.47	4	6 9%	4.49	1	2	0	0	0	\$5,079,000	\$24,407,000	\$0	\$0	\$0	\$0	\$508,000	\$1,270,000	\$2,949,000	\$34,213,000	\$34,213,000
Southwest	Unincorporate	ed SR-79 (Winchester)	Thompson	La Alba	Backbone	1.82	4	6 0%	3.63	1	2	0	0	0	34,112,000	\$19,761,000	\$0	\$0	\$0	\$0	\$411,000	\$1,028,000	\$2,387,000	\$27,699,000	\$27,699,000
Southwest		ed SR-79 (Winchester)	La Alba	Hunter	Backbone	0.51	4	6 0%	1.03	1	2	0	0	0	31,166,000	\$5,602,000	\$0	\$0	\$0	\$0	\$117,000	\$292,000	\$677,000	\$7,854,000	\$3,042,000
Southwest		ed SR-79 (Winchester)	Hunter	Murrieta Hot Springs	Backbone	1.14	4	6 88%	0.27	1	3	0	0	0	309,000	\$134,000	\$0	0 \$0	\$0	\$0	\$31,000	\$77,000	\$44,000	\$595,000	\$442,000
Southwest	Wildomar	Bundy Canyon	I-15	Monte Vista	Backbone	0.22	4	6 0%	0.44	2	3	0	0	0	\$774,000	\$218,000	\$0	\$0	\$0	\$0	\$77,000	\$194,000	\$99,000	\$1,362,000	\$1,362,000
Southwest	Wildomar	Bundy Canyon	Monte Vista	Sunset	Backbone	3.14	2	4 0%	6.29	3	3	0	0	0	\$14,778,000	\$3,081,000	\$0	\$0	\$0	\$0	\$1,478,000	\$3,695,000	\$1,786,000	\$24,818,000	\$24,818,000
Southwest	Wildomar	Bundy Canyon	I-15	interchange	Backbone	0.00	0	0 0%	0.00	2	3	3	0	D	\$0	\$0	\$22,550,000	\$0	\$0	\$0	\$2,255,000	\$5,638,000	\$2,255,000	\$32,698,000	\$24,613,000
Southwest	Wildomar	Clinton Keith	Palomar	I-15	Backbone	0.55	4	4 0%	0.00	1	2	0	0	D	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Southwest	Wildomar	Clinton Keith	I-15	Copper Craft	Backbone	1.96	2	4 58%	1.64	2	3	0	0	D	\$2,858,000	\$805,000	\$(\$0	\$0	\$0	\$286,000	\$715,000	\$366,000	\$5,030,000	\$0
Subtotal					Backbone	269.95			318.02			11 8.8	335	3 7.1	4 \$438,352,000	\$682,621,000	\$435.330.000	\$74,976,000	\$136,800,000	\$4,901,000	\$109.037.000	\$272.606.000	\$177.298.000	\$2,331,921,000	\$1.961.707.000

		Network Detailed																								ated: July 23, 2024
AREA PLAN D	IST CITY Menifee	STREETNAME Briggs	SEGMENTFROM Newport	SEGMENTTO Scott	NETWORK // Secondary	MILES EXISTI 3.05	NGLN FUTUR	RELN % CON	UPLETE INCRE	ASELN MILES TOPO 0.00	LANDUSE 1	3 INTERCHG	BRIDGE 0	RRXING 0 (ITS 0	NEWLNCOST F	ROWCOST IN	ITCHGCOST \$0	BRDGCOST \$0	RRXCOST I	TSCOST P \$0	LNG EN	4G C0	ONTIG TOTA \$0	AL COST MAX \$0	IMUM TUMF SHARE \$0
Central	Menifee	Briggs	SR-74 (Pinacate)	Simpson	Secondary	2.54	2	4	73%	1.37	1	3	0	0 0	0	\$1,553,000	\$672,000	\$0	\$0	\$0	\$0	\$155,000	\$388,000	\$223,000	\$2,991,000	\$2,991,000
Central Central	Menifee Menifee	Briggs Briggs	Simpson Salt Creek	Old Newport bridge	Secondary Secondary	1.50 0.00	0	2	17% 0%	2.49 0.00	1	3	0 60	00 0	0 0	\$2,819,000 \$0	\$1,220,000 \$0	\$0 \$0	\$5,760,000	\$0 \$0	\$0 \$0	\$282,000 \$576,000	\$705,000 \$1,440,000	\$404,000 \$576,000	\$5,430,000 \$8,352,000	\$5,430,000 \$8,352,000
Central	Menifee	Garbani	I-215	interchange	Secondary	0.00	0	0	0%	0.00 5.22	1	3	2	0 0	0	\$0	\$0 \$2,557,000	\$43,490,000	\$0 \$0	\$0	\$0 \$0	\$4,349,000	\$10,873,000 \$1,477,000	\$4,349,000	\$63,061,000	\$42,483,000
Central Central	Menifee Menifee	Goetz Goetz	Juanita Newport	Lesser Lane Juanita	Secondary Secondary	2.61 1.36	2	2	0% 0%	0.00	1	3	0	0 0	0	\$5,907,000 \$0	\$2,557,000	\$0	\$0	\$0 \$0	\$0 \$0	\$591,000 \$0	\$1,477,000	\$846,000 \$0	\$11,378,000 \$0	\$11,378,000 \$0
Central Central	Menifee Menifee	Holland Holland	Murrieta Bradley	Bradley Haun	Secondary Secondary	1.03 0.75	2	4	0% 0%	2.06 1.50	1	2	0	0 0	0	\$2,332,000 \$1,698,000	\$11,206,000 \$8,160,000	\$0	\$0 \$0	\$0 \$0	\$0 \$0	\$233,000 \$170,000	\$583,000 \$425,000	\$1,354,000 \$986,000	\$15,708,000 \$11,439,000	\$15,708,000 \$11,439,000
Central	Menifee	Holland	Haun	Antelope	Secondary	0.31	0	4	0%	1.24	i	2	0	0 0		\$1,404,000	\$6,746,000	\$0	\$0	\$0 \$0	\$0	\$140,000	\$351,000	\$815,000	\$9,456,000	\$9,456,000
Central Central	Menifee Menifee	Holland Holland	I-215 overcrossing Antelope	bridge Menifee	Secondary Secondary	0.00 0.70	0	4	0% 64%	0.00 0.50	1	2	0 35 n	50 (0	\$0 \$571,000	\$0 \$2,742,000	\$0 \$0	\$6,720,000 \$0	\$0 \$0	\$0 \$0	\$672,000 \$57,000	\$1,680,000 \$143,000	\$672,000 \$331,000	\$9,744,000 \$3,844,000	\$9,744,000 \$3,844,000
Central	Menifee	McCall	I-215	Aspel	Secondary	1.23	4	6	0%	2.46	i	3	0	0 0		\$2,780,000	\$1,203,000	\$0	\$0	\$0 \$0	\$0	\$278,000	\$695,000	\$398,000	\$5,354,000	\$5,354,000
Central Central	Menifee Menifee	McCall McCall	I-215 Aspel	interchange Menifee	Secondary Secondary	0.00 0.95	0	0	0% 45%	0.00 1.05	1	3	D n	0 0	0	\$0 \$1,188,000	\$0 \$514,000	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$119,000	\$0 \$297,000	\$0 \$1 <i>7</i> 0,000	\$0 \$2,288,000	\$0 \$2,288,000
Central	Menifee	Murrieta	Ethanac	McCall	Secondary	1.95	2	2	0%	0.00	i	3	5	0 0	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Central Central	Menifee Menifee	Murrieta Murrieta	McCall Newport	Newport Bundy Canyon	Secondary Secondary	2.03 3.00	2	4 2	10% 0%	3.65 0.00	1	3	0	0 (0 0	\$4,136,000 \$0	\$1,790,000 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$414,000 \$0	\$1,034,000 \$0	\$593,000 \$0	\$7,967,000 \$0	\$7,967,000 \$0
Central	Moreno Valley	Cactus	I-215	Heacock	Secondary	2.17	4	6	83%	0.74	1	2	0	0 0	0	\$834,000	\$4,007,000	\$0	\$0	\$0	\$0	\$83,000	\$209,000	\$484,000	\$5,617,000	\$5,617,000
Central Central	Moreno Valley Moreno Valley		I-215 Ironwood	interchange SR-60	Secondary Secondary	0.00 0.28	0 4	0 4	0% 0%	0.00	1	2	0	0 0	0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
Central	Moreno Valley	Day	SR-60	interchange	Secondary	0.00	0	0	0%	0.00	1	2	0	0 0	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Central Central	Moreno Valley Moreno Valley		SR-60 I-215	Eucalyptus Towngate	Secondary Secondary	0.77 1.00	6 4	6	0% 42%	0.00 1.16	1	2	0	0 0	0 0	\$0 \$1,313,000	\$6,309,000	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$131,000	\$0 \$328,000	\$0 \$762,000	\$0 \$8,843,000	\$0 \$8,843,000
Central	Moreno Valley		Towngate	Frederick	Secondary	0.67	4	4	0%	0.00	1	2	0	0 0	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Central Central	Moreno Valley Moreno Valley		Frederick Heacock	Heacock Kitching	Secondary Secondary	1.01 1.01	2	2	0% 0%	0.00	1	2	0	0 0	0 0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
Central	Moreno Valley		Kitching	Moreno Beach	Secondary	2.42	4	4	98%	0.00	1	2	D	0 0	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Central Central	Moreno Valley Moreno Valley		Moreno Beach SR-60	Theodore Alessandro	Secondary Secondary	2.28 1.63	4	4	47% 0%	0.00 0.00	1	2	0	0 0	0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
Central	Moreno Valley	Heacock	Cactus	San Michele	Secondary	2.79	4	4	77%	0.00	1	2	D	0 0	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Central Central	Moreno Valley Moreno Valley		Reche Vista San Michele	Cactus Harley Knox	Secondary Secondary	4.73 0.74	2	2	92% 0%	0.00 0.00	1	3	0	0 0	0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
Central	Moreno Valley		SR-60	Day	Secondary	1.33 2.01	4	4	0% 0%	0.00	1	2	0	0 0	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Central Central	Moreno Valley Moreno Valley		Day Alessandro	Heacock John F Kennedy	Secondary Secondary	1.00	4	4	0%	0.00	1	2	0	0 0	0	\$0 \$0	\$0 \$0	\$0	\$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0
Central Central	Moreno Valley	Lasselle Moreno Beach	John F Kennedy Reche Canyon	Oleander SR-60	Secondary Secondary	3.16 1.23	4	4	0% 0%	0.00 2.47	1	2	0	0 0	0	\$0 \$2,790,000	\$0 \$13,410,000	\$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$279,000	\$0 \$698,000	\$0 \$1,620,000	\$0 \$18,797,000	\$0 \$18,797,000
Central	Moreno Valley		SR-60 overcrossing	bridge	Secondary	0.00	4	4	0%	0.00	i	2	0 25	50 0		\$2,790,000	\$13,410,000	\$0 \$0	\$0	\$0 \$0	\$0 \$0	\$279,000	\$676,000 \$0	\$1,820,000	\$10,797,000	\$10,797,000
Central Central	Moreno Valley Moreno Valley		SR-60 Ironwood	Alessandro SR-60	Secondary Secondary	1.51 0.40	4	4	0% 0%	0.00	1	2	D n	0 0	0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
Central	Moreno Valley	Pigeon Pass/CETAP Corridor	Hidden Springs	Ironwood	Secondary	2.66	4	4	0%	0.00	i	2	Ď	0 0	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Central Central	Moreno Valley Moreno Valley	Reche Canyon Redlands	Moreno Valley City Limit Locust	Locust Alessandro	Secondary Secondary	0.35 2.75	2	2	0% 5%	0.00 5.22	2	3	D n	0 0	0	\$0 \$5,907,000	\$0 \$28.385.000	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$591,000	\$0 \$1,477,000	\$0 \$3,429,000	\$0 \$39,789,000	\$0 \$39,789,000
Central	Moreno Valley	Redlands	SR-60	interchange	Secondary	0.00	0	0	0%	0.00	1	2	3	0 0	0	\$0	\$0	\$22,550,000	\$0	\$0	\$0	\$2,255,000	\$5,638,000	\$2,255,000	\$32,698,000	\$32,698,000
Central Central	Moreno Valley Moreno Valley		SR-60 SR-60	Eucalyptus interchanae	Secondary Secondary	0.26	2	4	0% 0%	0.52	1	2	D 3	0 (0 0	\$589,000 \$0	\$2,829,000 \$0	\$0 \$22,550,000	\$0 \$0	\$0 \$0	\$0 \$0	\$59,000 \$2,255,000	\$147,000 \$5,638,000	\$342,000 \$2,255,000	\$3,966,000 \$32,698,000	\$3,966,000 \$32,698,000
Central	Perris	Ellis	Goetz	Evans	Secondary	1.27	0	4	14%	4.37	1	3	0	0 0	0	\$4,945,000	\$2,141,000	\$0	\$0	\$0	\$0	\$495,000	\$1,236,000	\$709,000	\$9,526,000	\$9,526,000
Central Central	Perris Perris	Evans Evans	Oleander Ramona	Ramona Morgan	Secondary Secondary	1.00 0.59	4	4	0% 0%	0.00	1	3	0	0 0	0 0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
Central	Perris	Evans	Morgan	Rider	Secondary	0.50	4	4	0%	0.00	1	3	0	0 0	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Central Central	Perris Perris	Evans Evans	Rider Placentia	Placentia Nuevo	Secondary Secondary	0.56 1.52	0	4	79% 51%	0.00 2.98	1	3	0	0 0	0 0	\$3,370,000	\$1,459,000	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$337,000	\$843,000	\$483,000	\$6,492,000	\$6,492,000
Central	Perris	Evans	Nuevo	Ellis	Secondary	2.03	0	4	0%	8.12	1	3	0	0 0	0	\$9,192,000	\$3,979,000	\$0	\$0	\$0	\$0	\$919,000	\$2,298,000	\$1,317,000	\$17,705,000	\$17,705,000
Central Central	Perris Perris	Evans Evans	San Jacinto River I-215	bridge bridge	Secondary Secondary	0.00	0	4	0% 0%	0.00 0.00	1	3	0 40		0	\$0 \$0	\$0 \$0	\$0 \$0	\$7,680,000 \$5,760,000	\$0 \$0	\$0 \$0	\$768,000 \$576,000	\$1,920,000 \$1,440,000	\$768,000 \$576,000	\$11,136,000 \$8,352,000	\$11,136,000 \$8,352,000
Central	Perris	Goetz	Lesser	Ethanac	Secondary	2.04 1.53	2	4	12%	3.60 0.00	1	3	0	0 0	0	\$4,073,000	\$1,763,000	\$0	\$0	\$0	\$0	\$407,000	\$1,018,000	\$584,000	\$7,845,000	\$7,845,000
Central Central	Perris Perris	Harley Knox Harley Knox	I-215 I-215	Indian interchange	Secondary Secondary	0.00	0	0	0% 0%	0.00	1	2	0	0 0	0	\$0 \$0	\$0 \$0	\$0	\$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0
Central Central	Perris	Harley Knox	Indian Perris	Perris	Secondary	0.50 0.50	6	6	0% 0%	0.00	1	2	0	0 0	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Central	Perris Perris	Harley Knox Nuevo	I-215	Redlands Murrieta	Secondary Secondary	1.36	4	6	18%	2.23	1	2	0	0 0	0	\$2,519,000	\$12,107,000	\$0	\$0	\$0 \$0	\$0 \$0	\$252,000	\$630,000	\$1,463,000	\$16,971,000	\$16,971,000
Central Central	Perris Perris	Nuevo Nuevo	I-215 Murrieta	interchange Dunlap	Secondary Secondary	0.00	0	0	0% 0%	0.00 2.00	1	2	3	0 0	0	\$0 \$2,267,000	\$0 \$981,000	\$22,550,000	\$0 \$0	\$0 \$0	\$0 \$0	\$2,255,000 \$227,000	\$5,638,000 \$567,000	\$2,255,000 \$325,000	\$32,698,000 \$4,367,000	\$19,736,000 \$4,367,000
Central	Perris	Nuevo	Perris Valley Storm Channel	bridge	Secondary	0.00	4	4	0%	0.00	i	3	30	00 0	5 0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Central Central	Perris Perris	SR-74 (Matthews) SR-74 (Matthews)	I-215 I-215	Ethanac interchange	Secondary Secondary	0.00	4	4	0% 0%	0.00	1	2	D 3	0 0	0	\$0 \$0	\$0 \$0	\$0 \$22,550,000	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$2,255,000	\$0 \$5,638,000	\$0 \$2,255,000	\$0 \$32,698,000	\$0 \$21,835,000
Central	Unincorporated	Center (Main)	I-215	Mt Vernon	Secondary	1.66	2	2	0%	0.00	i	2	Ď	0 0	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Central Central	Unincorporated Unincorporated		I-215 BNSF	interchange railroad crossing	Secondary Secondary	0.00	0	0	0% 0%	0.00	1	2	3 n	0 0	0	\$0 \$0	\$0 \$0	\$22,550,000	\$0 \$0	\$0 \$13,800,000	\$0 \$0	\$2,255,000 \$1,380,000	\$5,638,000 \$3,450,000	\$2,255,000 \$1,380,000	\$32,698,000 \$20,010,000	\$11,912,000 \$20,010,000
Central	Unincorporated	I Ellis	Post	SR-74	Secondary	2.65	2	4	0%	5.30	i	3	Ď	0 0	0	\$5,996,000	\$2,596,000	\$0	\$0	\$0	\$0	\$600,000	\$1,499,000	\$859,000	\$11,550,000	\$11,550,000
Central Central	Unincorporated Unincorporated	I Mount Vernon/CETAP Corric I Nuevo	do: Center Dunlap	Pigeon Pass Menifee	Secondary Secondary	0.61 2.00	2	4	46% 0%	0.65 4.01	3	3	0	0 (0 0	\$1,537,000 \$4,536,000	\$321,000 \$1,963,000	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$154,000 \$454,000	\$384,000 \$1,134,000	\$186,000 \$650,000	\$2,582,000 \$8,737,000	\$2,582,000 \$2,505,000
Central	Unincorporated	Nuevo	San Jacinto River	bridge	Secondary	0.00	2	4	0%	0.00	i	3	9 40	00 0	0	\$0	\$0	\$0	\$3,840,000	\$0	\$0	\$384,000	\$960,000	\$384,000	\$5,568,000	\$5,568,000
Central Central	Unincorporated Unincorporated	I Pigeon Pass/CETAP Corridor I Post	Santa Rosa Mine	Mount Vernon Ellis	Secondary Secondary	3.95 0.44	2	2	74% 0%	2.05 0.00	2	3	0	0 () 0	\$4,827,000 \$0	\$1,006,000 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$483,000 \$0	\$1,207,000 \$0	\$583,000 \$0	\$8,106,000 \$0	\$8,106,000 \$0
Central		Reche Canyon	Reche Vista	Moreno Valley City Limit	Secondary	3.20	0	0	0%	0.00	2	3	D	0 0	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Central Northwest	Unincorporated Corona	6th	San Timoteo Canyon SR-91	Locust Magnolia	Secondary Secondary	2.54 4.50	4	4	0% 0%	0.00	1	1	0	0 0	0	\$0 \$0	\$0 \$0	\$0	\$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
Northwest Northwest	Corona	Auto Center Cajalco	Railroad Bedford Canyon	SR-91 I-15	Secondary Secondary	0.48 0.15	4	4	0% 0%	0.00	1	2	0	0 0	0	\$0	\$0	\$0	\$0 \$0	\$0	\$0	\$0	\$0 \$0	\$0 \$0	\$0	\$0
Northwest	Corona Corona	Hidden Valley	Norco Hills	McKinley	Secondary	0.59	4	4	0%	0.00	2	2	Ď	0 0	0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0	\$0 \$0
Northwest Northwest	Corona Corona	Lincoln Magnolia	Parkridge 6th	Ontario Sherborn	Secondary Secondary	3.20 0.46	4	4	0% 0%	0.00 0.92	1	2	D D	0 0	0	\$0 \$1,047,000	\$0 \$5,032,000	\$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$105,000	\$0 \$262,000	\$0 \$608,000	\$0 \$7,054,000	\$0 \$6,419,000
Northwest	Corona	Magnolia	Temescal Creek	bridge	Secondary	0.00	4	6	0%	0.00	i	2	0 30	00 0	5 0	\$1,047,000	\$5,032,000 \$0	\$0	\$2,880,000	\$0	\$0	\$288,000	\$720,000	\$288,000	\$4,176,000	\$3,580,000
Northwest Northwest	Corona Corona	Magnolia Magnolia	Sherborn Rimpau	Rimpau Ontario	Secondary Secondary	0.53 1.17	6	6	0% 0%	0.00	1	2	D n	0 0	0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
Northwest	Corona	Main	Grand	Ontario	Secondary	0.88	2	2	0%	0.00	i	3	Ď	0 0	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Northwest Northwest	Corona Corona	Main Main	Ontario Hidden Valley	Foothill Parkridge	Secondary Secondary	0.89 0.35	4	4	0% 0%	0.00 0.70	1	2	0	0 (0 0	\$0 \$789,000	\$0 \$3,791,000	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$79,000	\$0 \$197,000	\$0 \$458,000	\$0 \$5,314,000	\$0 \$4,389,000
Northwest	Corona	Main	Parkridge	SR-91	Secondary	0.91	6	6	0%	0.00	1	1	0	0 0	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Northwest Northwest	Corona Corona	Main McKinlev	SR-91 Hidden Valley	S. Grand Promenade	Secondary Secondary	0.81	4	4	0% 0%	0.00 0.00	1	1 2	0	0 0	0 0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
Northwest	Corona	McKinley	Promenade	SR-91	Secondary	0.33	6	6	0%	0.00	1	1	0	0 0	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Northwest Northwest	Corona Corona	McKinley McKinley	SR-91 Arlington Channel	Magnolia bridge	Secondary Secondary	0.31	4 6	4 6	0% 0%	0.00 0.00	1	1	D 10	υ (00 (0 0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
Northwest	Corona	McKinley	BNSF	railroad crossing	Secondary	0.00	4	4	0%	0.00	1	1	0	0 1	1 0	\$0	\$0	\$0	\$0	\$72,800,000	\$0	\$7,280,000	\$18,200,000	\$7,280,000	\$105,560,000	\$0
Northwest Northwest	Corona Corona	Ontario Ontario	I-15 Lincoln	El Cerrito Buena Vista	Secondary Secondary	0.88 0.32	4	6 4	0% 0%	1.76 0.00	1	2) D	0 (0 0	\$1,997,000 \$0	\$9,596,000 \$0	\$0 ,\$0	\$0 \$0	\$0 \$0	\$0 \$0	\$200,000 \$0	\$499,000 \$0	\$1,159,000 \$0	\$13,451,000 \$0	\$13,451,000 \$0
Northwest	Corona	Ontario	Buena Vista	Main	Secondary	0.65	6	6	0%	0.00	1	2	0	0 0	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Northwest Northwest	Corona Corona	Ontario Ontario	Main Kellogg	Kellogg Fullerton	Secondary Secondary	0.78 0.32	6	6	0% 0%	0.00	1	1	0	0 0	0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
Northwest	Corona	Ontario Ontario	Fullerton	Rimpau	Secondary	0.42	6	6	0%	0.00	1	1	0	0 0	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
Northwest Northwest	Corona Corona	Ontario Railroad	Rimpau Auto Club	I-15 Buena Vista	Secondary Secondary	0.67 2.45	4	4	0% 0%	0.00 0.00	1	2	0	0 0	0 0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
Northwest Northwest	Corona Corona	Railroad Railroad	BNSF Buena Vista	railroad crossing Main (at Grand)	Secondary Secondary	0.00 0.58	4	4	0% 0%	0.00	1	2	D n	0 2	2 0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$27,600,000 \$0	\$0 \$0	\$2,760,000 \$0	\$6,900,000 \$0	\$2,760,000 \$0	\$40,020,000 \$0	\$40,020,000 \$0
Northwest	Corona	River	Corydon	Main	Secondary	2.28	4	4	0%	0.00	i	2	Ď	0 0	0	\$0 \$0	\$0	\$0 \$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Northwest	Corona	Serfas Club	SR-91	Green River	Secondary	0.96	4	4	0%	0.00	1	2	0	0 (0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

EXHIBIT	H-1 TUMI	F Network Detailed	Cost Estimate																					-11	ated: July 23, 2024
AREA PLAN D	IST CITY	STREETNAME	SEGMENTFROM	SEGMENTTO	NETWORK N	AILES EXI	istingln futur	ELN % COMP	TE INCREASELN MILE	S TOPO	LANDUSE INTERCHG	BRIDGE	RRXING	ITS	NEWLNCOST	ROWCOST	INTCHGCOST	BRDGCOST	RRXCOST		NG EN				IMUM TUMF SHARE
Northwest	Eastvale	Archibald	Remington	River	Secondary	3.40	4	4	82% 0.0		1 3	0	0 (1	\$0	\$0	\$0	\$0	\$0	\$2,333,000	\$233,000	\$583,000	\$233,000	\$3,382,000	\$3,382,000
Northwest	Eastvale	Hamner	Mission	Bellegrave	Secondary	3.03	6	6	0% 0.0		1 3	0	0 (0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Northwest	Eastvale	Hamner	Bellegrave	Amberhill	Secondary	0.20	6	6	0% 0.0		1 3	0	0 (1	\$0	\$0	\$0	\$0			\$14,000	\$34,000	\$14,000	\$199,000	\$199,000
Northwest	Eastvale Eastvale	Hamner Hamner	Amberhill Limonite	Limonite Schleisman	Secondary	0.71	2	6	55% 1.2 0% 0.0		1 3	0	0 (0	\$1,447,000	\$626,000	\$0	\$0 \$0	\$0 \$0		\$145,000 \$68,000	\$362,000 \$171,000	\$207,000 \$68,000	\$2,787,000 \$991,000	\$2,787,000 \$991,000
Northwest Northwest	Eastvale	Hamner	Schleisman	Santa Ana River	Secondary Secondary	0.82	2	6	23% 2.5		1 3	0	0 (, ,	\$2,873,000	\$1.243.000	\$O	\$0 \$0	\$(\$287,000	\$718,000	\$412,000	\$5,533,000	\$3,675,000
Northwest	Eastvale	Hellman	Schleisman	Walters	Secondary	0.55	2	4	90% 0.0		1 2	0	0 (0	\$62,000	\$299,000	\$0	\$0	\$0		\$6,000	\$16,000	\$36,000	\$419,000	\$419,000
Northwest	Eastvale	Hellman	Walters	River	Secondary	1.41	2	4	0% 2.8	2	1 2	0	0 (0	\$3,192,000	\$15,341,000	\$0	\$0	\$0	\$0	\$319,000	\$798,000	\$1,853,000	\$21,503,000	\$21,503,000
Northwest	Eastvale	Hellman	Cucamonga Creek	bridge	Secondary	0.00	2	4	0% 0.0		1 2	0 2	275 (0	\$0	\$0	\$0	\$2,640,000			\$264,000	\$660,000	\$264,000	\$3,828,000	\$3,828,000
Northwest	Eastvale	Limonite	I-15	Eastvale Gateway	Secondary	0.29	6	6	0.0		1 3	0	0 (1	\$0	\$0	\$0	\$0	\$0		\$20,000	\$50,000	\$20,000	\$289,000	\$289,000
Northwest	Eastvale	Limonite	I-15 Eastvalo Catoway	interchange	Secondary	0.00	0	0	0% 0.0 0% 0.0		1 3	0	0 (. 0	\$0	\$0	\$0	\$0 \$0	\$(\$(\$19,000	\$0 \$44,000	\$10,000	\$0 \$255,000	\$0
Northwest Northwest	Eastvale Eastvale	Limonite Limonite	Eastvale Gateway Hamner	Hamner Sumner	Secondary Secondary	0.26	0	6	0% 0.0 75% 0.5		1 3	0	0 (, ,	\$568,000	\$246.000	\$O	\$O	\$(\$(\$18,000 \$57,000	\$142,000	\$18,000 \$81,000	\$255,000 \$1.094,000	\$255,000 \$1,094,000
Northwest	Eastvale	Limonite	Sumner	Harrison	Secondary	0.50	6	6	0% 0.0		1 3	Ö	ŏ ö	ĭ	\$0	\$0	\$0	\$0	\$0	\$343,000	\$34,000	\$86,000	\$34,000	\$497,000	\$497,000
Northwest	Eastvale	Limonite	Harrison	Archibald	Secondary	0.49	4	4	0.0		1 3	0	0 (0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Northwest	Eastvale	Limonite	Archibald	Hellman (Keller SBD Co.)	Secondary	1.15	0	4	78% 1.0		1 3	0	0 (0	\$1,146,000	\$496,000	\$0	\$0	\$0	\$0	\$115,000	\$287,000	\$164,000	\$2,208,000	\$2,208,000
Northwest	Eastvale	Limonite	Cucamonga Creek Hellman	bridge	Secondary	0.00 0.75	0	4	0% 0.0 48% 0.7		1 3	0 5	500	0	\$0 \$883.000	\$0	\$0	\$9,600,000	\$0	\$0	\$960,000 \$88,000	\$2,400,000	\$960,000	\$13,920,000 \$5,948,000	\$0
Northwest Northwest	Eastvale Jurupa Valley	River	San Bernardino County	Archibald Vallev	Secondary Secondary	1.53	2	4	34% 2.0		2 3	0	0 (0	\$3,518,000	\$4,243,000 \$991,000	\$O	\$0 \$0	\$(\$(\$0	\$352,000	\$221,000 \$880,000	\$513,000 \$451,000	\$6,192,000	\$5,948,000 \$6,192,000
Northwest	Jurupa Valley		Cantu-Galleano Ranch	Van Buren	Secondary	0.29	2	4	63% 0.2		1 3	0	0 (0	\$241,000	\$104,000	\$0	\$0	\$(\$0	\$24,000	\$60,000	\$35,000	\$464,000	\$464,000
Northwest		Cantu-Galleano Ranch	Wineville	Bellegrave	Secondary	1.82	0	2	90% 0.3		1 3	0	0 (0	\$412,000	\$178,000	\$0	\$0	\$0	\$0	\$41,000	\$103,000	\$59,000	\$793,000	\$793,000
Northwest	Jurupa Valley	Etiwanda	Philadelphia	SR-60	Secondary	1.05	4	6	67% 0.6		1 3	0	0 (0	\$786,000	\$340,000	\$0	\$0	\$0	\$0	\$79,000	\$197,000	\$113,000	\$1,515,000	\$989,000
Northwest	Jurupa Valley		SR-60	Limonite	Secondary	2.95	4	4	0.0		1 3	0	0 (0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Northwest Northwest	Jurupa Valley Jurupa Valley		I-15 Wineville	Wineville Etiwanda	Secondary Secondary	0.47	6	6	0% 0.0 0% 0.0		1 3	0	0 (0	\$0	\$0	\$0	\$0	\$(\$0	\$0	\$0	\$0 \$0	\$0	\$0
Northwest	Jurupa Valley		Etiwanda	Van Buren	Secondary	2.73	2	4	75% 1.3		1 3	0	0 (\$1,547,000	\$670,000	\$0	\$0	\$(\$0	\$155,000	\$387,000	\$222,000	\$2,981,000	\$2,981,000
Northwest	Jurupa Valley		Van Buren	Clay	Secondary	0.79	4	4	0% 0.0		1 3	0	0 (0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Northwest	Jurupa Valley		Clay	Riverview	Secondary	2.45	4	4	0.0	0	1 3	0	0 (0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Northwest	Jurupa Valley		Rubidoux	Santa Ana River	Secondary	1.19	2	4	0% 2.3		1 3	0	0 (0	\$2,690,000	\$1,164,000	\$0	\$0	\$0	\$0	\$269,000	\$673,000	\$385,000	\$5,181,000	\$0
Northwest	Jurupa Valley		Santa Ana River	bridge	Secondary	0.00	2	4	0.0		1 3	0 1,0	000	0	\$0	\$0	\$0	\$9,600,000	\$0	\$0	\$960,000	\$2,400,000	\$960,000	\$13,920,000	\$6,204,000
Northwest Northwest	Jurupa Valley Jurupa Valley		Milliken SR-60	SR-60 Santa Ana River	Secondary Secondary	2.10 7.24	4	4	0% 0.0 0% 0.0		1 3	0	0 (. 0	\$U \$0	\$U \$0	\$U \$0	\$0 \$0	şı. «r) \$U) \$0	\$U \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$U \$0
Northwest	Jurupa Valley		Limonite	Mission	Secondary	0.95	4	4	0% 0.0	-	1 3	0	0 0	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Northwest	Jurupa Valley		Pine	Mission	Secondary	2.90	4	4	0.0	0	2 3	0	0 (0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Northwest	Jurupa Valley		SR-60	interchange	Secondary	0.00	0	0	0.0		2 3	3	0 (0	\$0	\$0	\$22,550,000	\$0	\$0	\$0	\$2,255,000	\$5,638,000	\$2,255,000	\$32,698,000	\$9,051,000
Northwest	Jurupa Valley		Armstrong	Mission	Secondary	0.48	4	4	0.0		1 3	0	0 (0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Northwest Northwest	Norco Norco	1st 1st	Parkridge Mountain	Mountain Hamner	Secondary Secondary	0.26 0.26	2	2 A	0% 0.0 0% 0.0		1 3	0	0 (. 0	\$U \$0	\$U \$0	\$U \$0	\$U \$0	şı. «r) \$U) \$0	\$U \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
Northwest	Norco	2nd	River	I-15	Secondary	1.39	2	2	0% 0.0		1 3	0	0 0	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Northwest	Norco	6th	Hamner	California	Secondary	1.71	4	4	0% 0.0	0	1 2	0	0 (0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Northwest	Norco	6th	I-15	interchange	Secondary	0.00	0	0	0.0		1 2	3	0 (0	\$0	\$0	\$22,550,000	\$0	\$0	\$0	\$2,255,000	\$5,638,000	\$2,255,000	\$32,698,000	\$3,489,000
Northwest	Norco	Arlington	Crestview	Fairhaven	Secondary	1.00	2	4	0% 1.9		1 3	0	0 (0	\$2,254,000	\$976,000	\$0	\$0	\$0	\$0	\$225,000	\$564,000	\$323,000	\$4,342,000	\$4,342,000
Northwest Northwest	Norco Norco	California Corvdon	Arlington River	6th 5th	Secondary Secondary	1.05	2	4	5% 2.0 0% 0.0		1 2	0	0 (0	\$2,262,000	\$10,870,000	\$0	\$0 \$0	\$0 \$0		\$226,000	\$566,000	\$1,313,000	\$15,237,000	\$12,525,000
Northwest	Norco	Hamner	Santa Ana River	bridge	Secondary	0.00	2	6	0% 0.0		1 3	0 1,2	000	0	\$0	\$0	\$0	\$23,040,000			\$2,304,000	\$5,760,000	\$2,304,000	\$33,408,000	\$11,455,000
Northwest	Norco	Hamner	Santa Ana River	Hidden Valley	Secondary	3.25	4	6	0% 6.5		1 2	0	0 (0	\$7,362,000	\$35,378,000	\$0	\$0	\$0	\$0	\$736,000	\$1,841,000	\$4,274,000	\$49,591,000	\$49,591,000
Northwest	Norco	Hidden Valley	I-15	Norco Hills	Secondary	1.46	4	4	0.0		2 2	0	0 (0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Northwest	Norco	Hidden Valley	Hamner	I-15	Secondary	0.19	4	4	0.0		1 2	0	0 (0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Northwest Northwest	Norco Norco	Norco North	Corydon California	Hamner Crestview	Secondary Secondary	1.20 0.25	2	2	0% 0.0 0% 0.0		1 2	0	0 (0	\$0	\$0	\$0	\$0	\$(\$0	\$0	\$0	\$0	\$0	\$0
Northwest	Norco	River	Archibald	Corydon	Secondary	1.14	2	4	90% 0.2		1 2	0	0 (\$259,000	\$1,243,000	\$0	\$0	\$(, \$0) \$0	\$26,000	\$65,000	\$150,000	\$1,743,000	\$1,109,000
Northwest	Riverside	14th	Market	Martin Luther King	Secondary	0.89	4	4	0% 0.0		1 2	0	0 (0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Northwest	Riverside	1st	Market	Main	Secondary	0.08	2	2	0% 0.0	0	1 1	0	0 (0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Northwest	Riverside	3rd	SR-91	I-215	Secondary	1.34	3	4	81% 0.2		1 2	0	0 (0	\$288,000	\$1,385,000	\$0	\$0	\$0	\$0	\$29,000	\$72,000	\$167,000	\$1,941,000	\$1,941,000
Northwest	Riverside	3rd	BNSF	railroad crossing	Secondary	0.00	4	4	0.0		1 2	0	0 1	. 0	\$0	\$0	\$0	\$0	\$72,800,000	\$0	\$7,280,000	\$18,200,000	\$7,280,000	\$105,560,000	\$30,560,000
Northwest Northwest	Riverside Riverside	Adams Adams	Arlington SR-91	SR-91 Lincoln	Secondary Secondary	0.54	4	4	0% 0.0 0% 0.0		1 2	0	0 (. 0	\$U \$0	\$U \$0	\$U \$0	\$U \$0	şı. «r) \$U) \$0	\$U \$0	\$U \$0	\$0 \$0	\$0 \$0	\$U \$0
Northwest	Riverside	Adams	SR-91	interchange	Secondary	0.00	0	0	0% 0.0		1 2	3	0 0	0	\$0	\$0	\$22,550,000	\$0	\$0	\$0	\$2,255,000	\$5,638,000	\$2,255,000	\$32,698,000	\$3,262,000
Northwest	Riverside	Arlington	Fairhaven	La Sierra	Secondary	0.61	4	4	0% 0.0		1 3	0	0 (0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Northwest	Riverside	Buena Vista	Santa Ana River	Redwood	Secondary	0.30	4	4	0.0		1 2	0	0 (0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Northwest	Riverside	Canyon Crest	Martin Luther King	Central	Secondary	0.95	4	4	0.0		2 2	0	0 (0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Northwest Northwest	Riverside Riverside	Canyon Crest Canyon Crest	Central Country Club	Country Club Via Vista	Secondary Secondary	0.59 0.93	4	4	0% 0.0 12% 1.6		2 3	0	0 (\$2,839,000	\$799.000	\$U	\$0	φt er) \$U	\$284,000	\$710,000	\$364,000	\$4,996,000	\$1,593,000
Northwest	Riverside	Canyon Crest	Via Vista	Alessandro	Secondary	0.68	4	4	0% 0.0		2 3	0	0 (0	\$0	\$0	\$0	\$0	\$(\$0	\$0	\$0	\$0	\$0	\$0
Northwest	Riverside	Central	Chicago	I-215/SR-60	Secondary	2.22	4	4	0% 0.0		1 2	0	0 0	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Northwest	Riverside	Central	SR-91	Magnolia	Secondary	0.73	4	4	0.0		1 2	0	0 (0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Northwest	Riverside	Central	Alessandro	SR-91	Secondary	2.09	4	4	0.0		1 2	0	0 (0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Northwest Northwest	Riverside Riverside	Central	Van Buren Alessandro	Magnolia Spruce	Secondary Secondary	3.53 3.43	4	4	0% 0.0 0% 0.0		1 2	0	0 (\$0	\$0	\$0	\$0	\$C \$C	\$0	\$0	\$0	\$0	\$0	\$0
Northwest	Riverside	Chicago Chicago	Spruce	Columbia	Secondary	0.75	4	4	0% 0.0		1 2	0	0 (0	\$0	\$0	\$0	\$0	\$(11	\$0	\$0	\$0	\$O	\$O
Northwest	Riverside	Columbia	Main	lowa	Secondary	1.09	4	4	0% 0.0		1 2	Ō	0	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Northwest	Riverside	Columbia	I-215	interchange	Secondary	0.00	0	0	0.0		1 2	3	0	0	\$0	\$0	\$22,550,000	\$0	\$0	\$0	\$2,255,000	\$5,638,000	\$2,255,000	\$32,698,000	\$9,050,000
Northwest	Riverside	lowa	Center	3rd	Secondary	2.26	4	6	12% 3.9		1 2	0	0 (0	\$4,494,000	\$21,596,000	\$0	\$0	\$0	\$0	\$449,000	\$1,124,000	\$2,609,000	\$30,272,000	\$30,272,000
Northwest Northwest	Riverside Riverside	lowa lowa	3rd University	University Martin Luther King	Secondary Secondary	0.51 0.51	4	4	0% 0.0 0% 0.0		1 2	0	0 (. 0	\$U \$0	\$U \$0	\$U \$0	\$U \$0	şı. «r) \$U) \$0	\$U \$0	\$U \$0	\$U \$0	\$U \$0	\$U \$0
Northwest	Riverside	JFK	Trautwein	Wood	Secondary	0.48	2	4	10% 0.8		1 3	0	0 0	0	\$976,000	\$422,000	\$0	\$O	\$0	\$0	\$98,000	\$244,000	\$140,000	\$1,880,000	\$1,880,000
Northwest	Riverside	La Sierra	Arlington	SR-91	Secondary	3.56	4	4	0% 0.0	0	1 2	0	0 (0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Northwest	Riverside	La Sierra	SR-91	Indiana	Secondary	0.19	6	6	0.0		1 2	0	0 () 1	\$0	\$0	\$0	\$0	\$0	\$133,000	\$13,000	\$33,000	\$13,000	\$192,000	\$192,000
Northwest	Riverside	La Sierra	Indiana	Victoria	Secondary	0.78	4	4	0% 0.0		1 2	0	0 (1	\$0	\$0	\$0	\$0			\$54,000	\$134,000	\$54,000	\$778,000	\$778,000
Northwest Northwest	Riverside Riverside	Lemon (NB One way) Lincoln	Mission Inn Van Buren	University Jefferson	Secondary Secondary	0.08 2.00	2	2	0% 0.0 0% 0.0		1 3	0	0 (\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0			\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
Northwest	Riverside	Lincoln	Jefferson	Washington	Secondary	1.00	2	2	0% 0.0		1 2	0	0 (0	\$0	\$0	\$0	\$0			\$0	\$0	\$0	\$0	\$0
Northwest	Riverside	Lincoln	Washington	Victoria	Secondary	1.43	2	2	0% 0.0		1 2	Ō	0 0	0	\$0	\$0	\$0	\$0			\$0	\$0	\$0	\$0	\$0
Northwest	Riverside	Madison	SR-91	Victoria	Secondary	0.86	2	2	0.0		1 2	0	0 (1	\$0	\$0	\$0	\$0			\$59,000	\$147,000	\$59,000	\$853,000	\$853,000
Northwest	Riverside	Madison	BNSF	railroad crossing	Secondary	0.00	2	2	0.0		1 2	0	0 2	! 0	\$0	\$0	\$0	\$0			\$1,380,000	\$3,450,000	\$1,380,000	\$20,010,000	\$20,010,000
Northwest	Riverside	Magnolia	BNSF Railroad BNSF	Tyler	Secondary	2.70 0.00	4	4	0% 0.0 0% 0.0		1 2	0	0 (0	\$0	\$0	\$0	\$0 \$0	\$0 \$0		\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
Northwest Northwest	Riverside Riverside	Magnolia Magnolia	Tyler	railroad crossing Harrison	Secondary Secondary	0.65	4	6	0% 0.0 0% 0.0		1 2	0	0 (0	\$O	\$0 \$0	\$0	\$0			\$0 \$0	\$0 \$0	\$0	\$0 \$0	\$0
Northwest	Riverside	Magnolia	Harrison	14th	Secondary	5.98	4	4	0% 0.0		1 2	0	0 0	0	\$0	\$0	\$0	\$0			\$0	\$0	\$0	\$0	\$0
Northwest	Riverside	Main	1st	San Bernardino County	Secondary	2.19	4	4	0% 0.0		1 2	0	0 (0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Northwest	Riverside	Market	14th	Santa Ana River	Secondary	2.59	2	4	76% 1.2		1 2	0	0 (0	\$1,409,000	\$6,771,000	\$0	\$0			\$141,000	\$352,000	\$818,000	\$9,491,000	\$9,491,000
Northwest	Riverside	Martin Luther King	14th	I-215/SR-60	Secondary	2.22	4	6	29% 3.1		1 2	0	0 (0	\$3,567,000	\$17,144,000	\$0	\$0			\$357,000	\$892,000	\$2,071,000	\$24,031,000	\$24,031,000
Northwest Northwest	Riverside Riverside	Mission Inn Redwood (SB One way)	Redwood Mission Inn	Lemon University	Secondary Secondary	0.79 0.08	2	2	0% 0.0 0% 0.0		1 3	0	0 (0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0			\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
Northwest	Riverside Riverside	Trautwein	Alessandro	Van Buren	Secondary	2.19	4	4	0% 0.0		2 2	Ö	0 (, 0	\$U \$0	\$0 \$0	\$0 \$0	\$0 \$0			\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
Northwest	Riverside	Tyler	SR-91	Magnolia	Secondary	0.43	6	6	0% 0.0		1 2	0	0 0	0	\$0	\$0	\$0	\$0			\$0	\$0	\$0	\$0	\$0
Northwest	Riverside	Tyler	SR-91	interchange	Secondary	0.00	0	0	0.0	0	1 2	2	0 0	0	\$0	\$0	\$43,490,000	\$0	\$0	\$0	\$4,349,000	\$10,873,000	\$4,349,000	\$63,061,000	\$21,814,000
Northwest	Riverside	Tyler	Magnolia	Hole	Secondary	0.27	6	6	0.0		1 2	0	0 (0	\$0	\$0	\$0	\$0			\$0	\$0	\$0	\$0	\$0
Northwest	Riverside	Tyler	Hole	Wells	Secondary	1.06	4	4	0% 0.0		1 2	U	0 (0	\$0	\$0	\$0	\$0			\$0	\$0	\$0	\$0	\$0
Northwest Northwest	Riverside Riverside	Tyler University	Wells Redwood	Arlington SR-91	Secondary Secondary	1.35 0.86	Z A	4	0% 0.0 0% 0.0		1 2	0	0 (, 0	\$0 \$0	\$0 \$0	\$0	\$0 \$0			\$0 \$59,000	\$0 \$1.48,000	\$0 \$59,000	\$0 \$859,000	\$0 \$859,000
Northwest	Riverside	University	SR-91	1-215/SR-60	Secondary	2.08	4	4	0% 0.0		1 2	ŏ	0 (. 1	\$∩ \$U	φU \$Ω	.\$O	\$O	\$L \$0		\$143,000	\$356,000	\$59,000 \$143,000	\$2,067,000	\$2,067,000
Northwest	Riverside	Victoria	Lincoln	Arlington	Secondary	0.16	2	2	0% 0.0		1 2	0	0 0	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Northwest	Riverside	Victoria	Madison	Washington	Secondary	0.52	2	2	0% 0.0		1 2	0	0 (0	\$0	\$0	\$0	\$0			\$0	\$0	\$0	\$0	\$0
Northwest Northwest	Riverside Riverside	Washington Wood	Victoria JFK	Hermosa Van Buren	Secondary	2.06 0.70	2	4	14% 3.5 0% 1.4		1 2	U	0 (0	\$4,011,000 \$1,585,000	\$19,274,000 \$686,000	\$0	\$0 \$0			\$401,000 \$159,000	\$1,003,000 \$396,000	\$2,329,000 \$227,000	\$27,018,000	\$27,018,000 \$3,053,000
Northwest	Riverside Riverside	Wood	Van Buren	Bergamont	Secondary Secondary	0.70	4	4	0% 1.4		1 3	0	0 (, 0	\$1,585,000	\$686,000	\$U .\$O	\$0 \$0			\$159,000	\$396,000	\$227,000	\$3,053,000 \$0	\$3,053,000
Northwest	Riverside	Wood	Bergamont	Krameria	Secondary	0.39	4	4	0% 0.0		1 3	0	0 0	0	\$0	\$0	\$0	\$0			\$0	\$0	\$0	\$0	\$0

See Surfage 14. Su	EXHIBIT	H-1 TUMF Network Detailed	d Cost Estimate																	U	pdated: July 23, 2024
Series Se						MILES EXISTIN	GLN FUTURELN % COMPLETE	INCREASELN MILES TOPO	LANDUSE INTERCHG	BRIDGE RRX	NG ITS	NEWLNCOST	ROWCOST	INTCHGCOST	BRDGCOST RRXCOST	ITSCOST	PLNG	ENG	CONTIG TO	TAL COST N	MAXIMUM TUMF SHARE
Control Cont						0.94	6 6 0	0.00	3	0 0	0	0 \$0	\$0	\$1	\$0	\$0 \$0	\$0 \$0	\$0	\$0	\$0	\$0
Column		Unincorporated El Cerrito							1 3	0 0	0	0 \$0	\$U \$0	φ \$1) \$0	\$0 \$0		\$L \$() \$0) \$0	\$0 \$0	\$U \$0
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Series Se						0.12			i 3	0 0	Ō	0 \$0	\$0	\$1	\$0	\$0	\$0 \$0	\$0	50 \$0	\$0	\$0
Series Se	Northwest			Cajalco	Secondary			0.00	1 3	0 0	0	0 \$0	\$0	\$1	\$0	\$0	\$0 \$0	\$0	0 \$0	\$0	\$0
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Series of Series						2.00			2 3	0 0	0	0 \$11.970.000	\$0	\$1	50	\$0 \$0	\$0 \$1 107,000	\$0.075.000	50	\$00.071.000	\$0
Note: September 1969. 19							2 4 0	% 6.82 97 1.03	2 3	0 0	0	0 \$11,860,000	\$3,340,000	Þi ¢i	30 \$0	\$U \$O		\$2,765,000	J \$1,520,000		\$20,871,000
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No. 1. Mon. 1.									3	0 0	Ō	0 \$6,509,000	\$2,817,000	\$1	\$0	\$0		\$1,627,000	\$933,000	\$12,537,000	\$12,537,000
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No. 1 Mary 1 Mar				SR-243					2	0 0	0	0 \$0	\$0	\$1	\$0	\$0	\$0 \$0			\$0	\$0
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No.	Pass	Banning Sun Lakes	Montgomery Creek	bridge	Secondary	0.00	0 4 0	0.00	1 2		0	0 \$0	\$0	\$1		\$0		\$960,000	384,000	\$5,568,000	\$5,568,000
The control of the co	Pass								1 2	0 0	0	0 \$0	\$0	\$1	\$0	\$0	\$0 \$0	\$0	0 \$0	\$0	\$0
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San Jocinho Hermet Stole Ploridad Esplanade Secondary 0.51 4 4 0 0% 0.00 1 2 0 0 0 0 50 50 50 50 50 50 50 50 50 50 5								0.00	1 2	0 0	0	0 \$0	\$0	\$1	\$0	\$0	\$0 \$0	\$0	\$0	\$0	\$0
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San Jacinito Hemet Stefan Covarion State Secondary 1.25 2 2 0 % 0.00 1 1 0 0 0 0 50 50 50 50 50 50 50 50 50 50 5									2	0 0	0	0 \$0	\$0	\$1	\$0	\$0	\$0 \$0	\$0	50	\$0	\$0
San Jacinital Hemet Stefson Warren Cawston State Secondary 2.52 4 4 0/K 0.00 1 2 0 0 0 0 0 52,224,000 \$30 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0									1 2	0	U	U \$0	\$0	\$1	\$0	\$U \$0	\$ 0 \$0	\$0	J \$0	\$0	\$0
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San Jacinch Hemet Warren Sal Creek bridge Secondary 0.0 2 4 4 9% 9.14 1 3 0 0 0 0 0 \$1,034,000 \$3,478,000 \$3,4									. <u>2</u> I 3	0 0	0	0 \$2.262.000	\$979.000	Φ·	, \$0) \$0	\$0	\$0 \$226,000	\$566.000) \$324.000	\$4.357.000	\$4.357.000
San Jacinic Hemet Warren Solf Creek bridge Secondary 0.00 2 4 0 0% 0.00 1 3 0 300 0 0 5 5 5 288,000 \$72,000 \$288,000 \$72,000 \$288,000 \$72,000 \$288,000 \$72,000 \$288,000 \$72,000 \$74,176,00						1.00			3	0 0	0			\$1	\$0	\$0					
San Jacinto San Ja		Hemet Warren				0.00	2 4 0		3	0 300	0	0 \$0	\$0	\$1	\$2,880,000	\$0					\$4,176,000
San Jacinto San Ja									2	0 0	0	0 \$0	\$0	\$1	\$0	\$0	\$0 \$0	\$0	\$0	\$0	\$0
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San Jacinto Unincorporated Gilman Springs Sanderson San Jacinto Unincorporated Gilman Springs Massacre Canyon Wash bidge Secondary 0.00 2 4 0% 5.09 1 3 0 10 0 0 5 576,000 \$1,440,000 \$1,072									. <u>2</u> I 2	0 0	0	0 \$0	\$O	φ. \$i	\$0	\$0	\$0 \$0	.s.c	0.80	\$O	\$O
San Jacinto San Ja									. <u>.</u>	0 0	Ō	0 \$1,722,000	\$745,000	\$1	\$0	\$0	\$0 \$172,000	\$431,000	\$247,000	\$3,317,000	\$3,317,000
San Jacinto San Ja	San Jacinto		San Jacinto River	bridge		0.00			3	0 500	0	0 \$0	\$0	\$1	\$0	\$0	\$0 \$0			\$0	\$0
San Jacinto Unincorporated Gilman Springs Sanderson State Secondary 2.54 2 4 0% 5.09 1 3 0 0 0 \$5,761,000 \$2,494,000 \$0 \$0 \$0 \$5,761,000 \$2,494,000 \$0 \$1,440,000 \$826,000 \$11,097,000 \$11,097,000 \$11,097,000 \$11,097,000 \$11,097,000 \$11,097,000 \$1,392,000	San Jacinto	San Jacinto State		Ramona	Secondary				1 3	0 0	0	0 \$0	\$0	\$1	\$0	\$0	\$0 \$0	\$0	0 \$0	\$0	\$0
San Jacinto Unincorporated Gilman Springs Massacre Canyon Wash bridge Secondary 0.00 2 4 0% 0.00 1 3 0 100 0 0 \$0 \$0 \$96,000 \$0 \$96,000 \$240,000 \$96,000 \$1,392,000 \$									3	0 0	0			\$1		T-					\$13,469,000
San Jacinto Unincorporated Sir.79 (Winchester) SR-74 (Florida) Domenigoni Secondary 3.23 2 2 0% 0.00 1 3 0 0 0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0									3	0 100	0		\$2,494,000	\$1	φ0						
		Unincorporated SR-79 (Winchester)	SR-74 (Florida)						1 3	0 100	0	0 \$0	\$0 \$0	\$1	. φ7ου,υ0U Ω \$ (φU \$Ω					\$1,372,000 \$ 0
	2230010							0.00	-		-	- ψο	ΨΟ	Ψ	Ψ.	v-	, - 40	Ψ	. Ψ	ΨΟ	ΨΟ

EXHIBIT H-1 TUMF Network Detailed Cost Estimate

Updated: July 23, 2024

Updated: July 24, 2024

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EXHIBIT		Network Detailed																								dated: July 23, 2024
AREA PLAN DI		STREETNAME	SEGMENTFROM	SEGMENTTO	NETWORK A		N FUTURELN	% COMPLETE INCREAS		LANDUSE	INTERCHG	BRIDGE	RRXING	ITS	NEWLNCO:			NTCHGCOST	BRDGCOST	RRXCOST	ITSCOST					AXIMUM TUMF SHARE
Southwest	Lake Elsinore	Corydon	Mission	Grand	Secondary	1.53	2 4	50%	1.53	1	3	0	0	0	0 \$1,	732,000	\$750,000	\$0	\$0	\$0	\$1	\$173,000	\$433,000	\$248,000 \$0	\$3,336,000	\$3,336,000
Southwest Southwest	Lake Elsinore Lake Elsinore	Diamond Franklin (integral to Railroad	Mission	I-15 interchange	Secondary Secondary	0.24	0 0	0% 0%	0.00	1	3	3	0	0	0	\$U \$0	\$U \$0	\$22,550,000	\$U \$0	\$U \$0	φı •	\$0 \$2,255,000	\$0 \$5,638,000		\$32,698,000	\$0 \$32,698,000
Southwest	Lake Elsinore		Lincoln	Toff	Secondary	1.29	4 4	0%	0.00	1	3	0	0	0	0	\$0	\$0	\$22,330,000	\$0 \$0	\$0 \$0	φ, \$1	\$0.50	\$0,000,000	\$2,233,000	\$02,676,000 \$0	\$52,676,000
Southwest	Lake Elsinore		Toft	SR-74 (Riverside)	Secondary	0.86	2 4	6%	1.61	i	3	0	0	0	0 \$1.	324,000	\$789,000	\$0	\$0	\$0	\$1	\$182,000	\$456,000	\$261,000	\$3,512,000	\$3,512,000
Southwest	Lake Elsinore	Lake	I-15	Lincoln	Secondary	3.25	2 4	28%	4.68	2	2	0	0	0		44,000	\$25,462,000	\$0	\$0	\$0	\$1	\$814,000	\$2,036,000	\$3,361,000	\$39,817,000	\$32,726,000
Southwest	Lake Elsinore	Lake	I-15	interchange	Secondary	0.00	0 0	0%	0.00	2	2	3	0	0	0	\$0	\$0	\$22,550,000		\$0	\$1		\$5,638,000		\$32,698,000	\$15,771,000
Southwest	Lake Elsinore	Lake	Temescal Wash	bridge	Secondary	0.00	2 4	0%	0.00	2	2	0 1	80	0	0	\$0	\$0	\$0			\$1	\$173,000	\$432,000		\$2,506,000	\$1,150,000
Southwest Southwest	Lake Elsinore Lake Elsinore	Mission Nichols	Railroad Canyon I-1.5	Bundy Canyon Lake	Secondary Secondary	2.39	4 4	0% 0%	0.00	1	3	0	0	0	0 64	\$0 075,000	\$0 \$1,764,000	\$0	\$0 \$0	\$0	\$1 \$1		\$0 \$1.019.000	\$0 \$584.000	\$0 \$7.850.000	\$0 \$7.850.000
Southwest	Lake Elsinore	Nichols	Temescal Wash	bridge	Secondary	0.00	2 4	0%	0.00	1	3	0 3	00	0	0 \$4,	\$0 \$0	\$1,764,000 \$0	\$0 \$0	\$2,880,000	\$0 \$0	Φ1 \$1	\$288,000	\$720,000		\$4,176,000	\$4,176,000
Southwest	Lake Elsinore	Nichols	I-15	interchange	Secondary	0.00	0 0	0%	0.00	i	3	2	0	0	ō	\$0	\$0	\$43,490,000		\$0	\$1		\$10,873,000		\$63,061,000	\$63.061.000
Southwest	Lake Elsinore	SR-74 (Collier/Riverside)	I-15	Lakeshore	Secondary	2.15	2 4	26%	3.19	1	2	0	0	0	0 \$3,	000,808	\$17,337,000	\$0	\$0	\$0	\$1		\$902,000	\$2,095,000	\$24,303,000	\$24,303,000
Southwest	Lake Elsinore	SR-74 (Grand)	Riverside	SR-74 (Ortega)	Secondary	0.64	2 4	0%	1.28	1	2	0	0	0		145,000	\$6,943,000	\$0	\$0	\$0	\$1	\$145,000	\$361,000		\$9,733,000	\$3,691,000
Southwest	Lake Elsinore	SR-74 (Riverside)	Lakeshore	Grand	Secondary	1.74	2 4	24%	2.65	1	2	0	0	0		95,000	\$14,392,000	\$0	\$0	\$0	\$1		\$749,000		\$20,175,000	\$20,175,000
Southwest Southwest	Lake Elsinore Lake Elsinore	Temescal Canyon Temescal Canyon	I-15 Temescal Wash	Lake bridge	Secondary Secondary	1.21	2 4	0% 0%	2.42	2	3	0 2	50	0	0 \$4,	211,000	\$1,186,000	\$0	\$2,400,000	\$0	\$1	\$421,000 \$240,000	\$1,053,000 \$600,000		\$7,411,000 \$3,480,000	\$7,411,000 \$3,480,000
Southwest	Murrieta	California Oaks	Jefferson	I-15	Secondary	0.32	4 4	0%	0.00	1	2	0 2	0	0	0	\$O	\$0 \$0	\$0 \$0	\$2,400,000	\$0 \$0	Φ1 \$1	\$240,000	\$600,000	\$240,000 \$0	\$3,460,000	\$3,460,000 \$0
Southwest	Murrieta	California Oaks	I-15	Jackson	Secondary	0.50	6 6	0%	0.00	i	2	0	0	0	0	\$0	\$0	\$0	\$0	\$0	\$1	1.1	\$0	\$0	\$0	\$0
Southwest	Murrieta	California Oaks	Jackson	Clinton Keith	Secondary	1.76	4 4	0%	0.00	1	2	0	0	0	0	\$0	\$0	\$0	\$0	\$0	\$1	\$0	\$0	\$0	\$0	\$0
Southwest	Murrieta	Jackson	Whitewood	Ynez	Secondary	0.53	4 4	0%	0.00	1	2	0	0	0	0	\$0	\$0	\$0	\$0	\$0	\$1		\$0	\$0	\$0	\$0
Southwest	Murrieta	Jefferson	Palomar	Nutmeg	Secondary	1.02	0 2	75%	0.51	2	3	0	0	0	0 \$	387,000	\$250,000	\$0	\$0	\$0	\$1			\$114,000	\$1,562,000	\$1,562,000
Southwest	Murrieta	Jefferson	Nutmeg	Murrieta Hot Springs	Secondary	2.37	2 2	0%	0.00	1	2	0	0	0	0	\$0	\$0	\$0	\$0	\$0 \$0	\$1 \$1		\$0	\$0	\$0	\$0
Southwest Southwest	Murrieta Murrieta	Jefferson Keller	Murrieta Hot Springs I-21.5	Cherry Whitewood	Secondary Backbone	2.26 0.75	9 9	11% 0%	4.02 0.00	1	2	0	0	0	0 \$4,	\$48,000 \$0	\$21,854,000 \$0	\$O	\$O	\$0 \$0	\$1 \$1	7.00,000	\$1,137,000 \$0	\$2,640,000 \$0	\$30,634,000 \$0	\$30,634,000 \$0
Southwest	Murrieta	Keller	I-215	interchange	Backbone	0.00	0 0	0%	0.00	i	2	0	0	0	0	\$0	\$0	\$0	\$0	\$0	\$1	\$0	\$0		\$0	\$0
Southwest	Murrieta	Los Alamos	Jefferson	I-215	Secondary	1.77	4 4	0%	0.00	1	2	0	0	0	Ō	\$0	\$0	\$0	\$0	\$0	\$1	\$0	\$0	\$0	\$0	\$0
Southwest	Murrieta	Murrieta Hot Springs	Jefferson	I-215	Secondary	1.16	6 6	0%	0.00	1	2	0	0	0	0	\$0	\$0	\$0	\$0	\$0	\$1	\$0	\$0	\$0	\$0	\$0
Southwest	Murrieta	Murrieta Hot Springs	I-215	Margarita	Secondary	1.45	6 6	0%	0.00	1	2	0	0	0	0	\$0	\$0	\$0	\$0	\$0	\$1	\$0	\$0	\$0	\$0	\$0
Southwest	Murrieta Murrieta	Murrieta Hot Springs	Margarita	SR-79 (Winchester) Clinton Keith	Secondary	1.01	4 6	8% 0%	1.86 0.00	1	3	0	0	0	0 \$2,	06,000	\$911,000	\$0	\$0	\$0	\$1	\$211,000 \$0	\$527,000 \$0	\$302,000	\$4,057,000	\$3,899,000
Southwest	Murrieta	Nutmeg Whitewood	Jefferson Clinton Keith	Los Alamos	Secondary Secondary	2.01	4 4	56%	0.00	2	3	0	0	0	0 \$1	39,000	\$433.000	\$U \$0	\$U \$0	\$U \$0	\$1 \$1			\$197,000	\$2,708,000	\$2,708,000
Southwest	Murrieta	Whitewood	Los Alamos	Murrieta Hot Springs	Secondary	1.93	2 2	0%	0.00	1	2	0	0	0	0 41,	.\$0	\$0	\$0	\$0	\$0	\$1	\$0.54,000	\$0.000	\$0	\$0	\$0
Southwest	Murrieta	Whitewood	Murrieta Hot Springs	Jackson	Secondary	0.80	0 2	66%	0.54	2	2	0	0	0	0 \$	47,000	\$2,959,000	\$0	\$0	\$0	\$1	\$95,000	\$237,000	\$391,000	\$4,629,000	\$4,629,000
Southwest	Murrieta	Ynez	Jackson	SR-79 (Winchester)	Secondary	1.22	4 4	0%	0.00	1	2	0	0	0	0	\$0	\$0	\$0	\$0	\$0	\$1	\$0	\$0	\$0	\$0	\$0
Southwest	Temecula	Butterfield Stage	Murrieta Hot Springs	Calle Chapos	Secondary	0.82	4 4	0%	0.00	2	3	0	0	0	1	\$0	\$0	\$0	\$0	\$0	\$563,000		\$141,000		\$816,000	\$816,000
Southwest Southwest	Temecula Temecula	Butterfield Stage Butterfield Stage	Calle Chapos La Serena	La Serena Rancho California	Secondary Secondary	0.70	4 4	0% 0%	0.00	2	3	0	0	0	1	\$0 \$0	\$0	\$U \$0	\$0	\$0	\$480,000 \$624,000		\$120,000 \$156,000	\$48,000 \$62,000	\$696,000 \$904,000	\$696,000 \$904,000
Southwest	Temecula	Butterfield Stage	Rancho California	Pauba	Secondary	0.85	4 4	0%	0.00	2	3	0	0	0	i	\$0	\$0	\$0	\$0	\$0	\$584,000		\$146,000		\$846,000	\$846,000
Southwest	Temecula	Butterfield Stage	Pauba	SR-79 (Temecula Pkwy)	Secondary	1.69	2 4	93%	0.24	2	3	ō	Ō	0	0 \$	112,000	\$116,000	\$0	\$0	\$0	\$1		\$103,000		\$725,000	\$725,000
Southwest	Temecula	Jefferson	Cherry	Rancho California	Secondary	2.29	4 4	0%	0.00	1	1	0	0	0	1	\$0	\$0	\$0	\$0	\$0	\$1,575,00		\$394,000		\$2,285,000	\$2,285,000
Southwest	Temecula	Margarita	Murrieta Hot Springs	SR-79 (Temecula Pkwy)	Secondary	7.68	4 4	0%	0.00	1	3	0	0	0	1	\$0	\$0	\$0	\$0	\$0	\$5,272,000	\$527,000	\$1,318,000	\$527,000	\$7,644,000	\$7,644,000
Southwest	Temecula	Old Town Front	Rancho California	I-15/SR-79 (Temecula Pkwy)	Secondary	1.45	4 4	0% 0%	0.00	1	1	0	0	0	0	\$0	\$0	\$0	\$0	\$0	\$1	\$0 \$0	\$0 \$0	\$0	\$0 \$0	\$0 \$0
Southwest Southwest	Temecula Temecula	Pechanga Pkwy Pechanaa Pkwy	SR-79 (Temecula Pkwy) Via Gilberto	Via Gilberto Pechanaa Pkwv	Secondary Secondary	1.32	4 4	0%	0.00	1	1	0	0	0	0	\$O	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	Φ1 \$1	\$0	\$0	\$0 \$0	\$0 \$0	\$0 \$0
Southwest	Temecula	Rancho California	Jefferson	Margarita	Secondary	1.89	4 6	53%	1.78	i	i	0	0	0	0 \$2	15,000	\$13,938,000	\$0	\$0	\$0	\$1		\$504,000	\$1,595,000	\$18,254,000	\$18,181,000
Southwest	Temecula	Rancho California	I-15	interchange	Secondary	0.00	0 0	0%	0.00	1	1	3	0	0	0	\$0	\$0	\$22,550,000	\$0	\$0	\$1	\$2,255,000	\$5,638,000	\$2,255,000	\$32,698,000	\$0
Southwest	Temecula	Rancho California	Margarita	Butterfield Stage	Secondary	1.96	4 4	0%	0.00	1	1	0	0	0	0	\$0	\$0	\$0	\$0	\$0	\$1	\$0	\$0	\$0	\$0	\$0
Southwest	Temecula	SR-79 (Temecula Pkwy)	I-15	Pechanga Pkwy	Secondary	0.90	6 6	0% 0%	0.00	1	3	0	0	0	0	\$0	\$0	\$0	\$0	\$0 \$0	\$0.114.00	\$0	\$0	\$0 \$211.000	\$0 \$3,065,000	\$0
Southwest Southwest	Temecula Unincorporate	SR-79 (Temecula Pkwy)	Pechanga Pkwy Scott	Butterfield Stage SR-79 (Winchester)	Secondary Secondary	3.08	6 6	0% 56%	2.98	1	3	0	0	0	0 43	\$0 379,000	\$0 \$1,463,000	\$U \$0	\$0	\$0	\$2,114,000 \$1		\$529,000 \$845,000		\$3,065,000	\$3,065,000 \$6,509,000
Southwest		d Butterfield Stage	Tucalota Creek	bridge	Secondary	0.00	4 4	0%	0.00	2	3	0 2	00	0	0 43,	\$0	\$0,465,000	\$0	\$0	\$0	\$1	\$0.000	\$043,000	\$0	\$0,507,000	\$0,507,000
Southwest		d Butterfield Stage (Pourroy)	Auld	Murrieta Hot Springs	Secondary	2.27	0 4	17%	7.54	2	3	0	0	0	0 \$13,	13,000	\$3,693,000	\$0	\$0	\$0	\$1	\$1,311,000	\$3,278,000	\$1,681,000	\$23,076,000	\$23,076,000
Southwest	Unincorporate		Ortega	Corydon	Secondary	4.96	2 4	10%	8.92	1	2	0	0	0	0 \$10,	098,000	\$48,529,000	\$0	\$0	\$0	\$0	\$1,010,000	\$2,525,000	\$5,863,000	\$68,025,000	\$68,025,000
Southwest		d Horsethief Canyon	Temescal Canyon	I-15	Secondary	0.17	2 2	0%	0.00	1	3	0	0	0	0	\$0	\$0	\$0	\$0	\$0	\$1	\$0	\$0	\$0	\$0	\$0
Southwest Southwest		d Indian Truck Trail	Temescal Canyon SR-79 (Winchester)	I-15 Pourrov	Secondary Secondary	0.18	6 6	0% 0%	0.00	1	3	0	0	0	0	\$0	\$0	\$0	\$0	\$0	\$1	\$0 \$0	\$0 \$0	\$0	\$0 \$0	\$0 \$0
Southwest	Unincorporate	d Murrieta Hot Springs	Pechanaa	San Diego County	Secondary	1.39	2 2	0%	0.00	2	3	0	0	0	0	\$0	\$0	\$O	\$O	\$0 \$0	φ. •) \$0) \$0	\$0	\$O	\$U \$0	\$O
Southwest	Unincorporate		SR-79 (Winchester)	Auld	Secondary	2.28	2 4	84%	0.73	2	3	0	0	0	0 \$1:	270,000	\$358,000	\$0	\$0	\$0	\$1	\$127,000	\$318,000	\$163,000	\$2,236,000	\$2,236,000
Southwest	Unincorporate	d Rancho California	Butterfield Stage	Glen Oaks	Secondary	4.26	2 4	0%	8.52	1	1	0	0	0		45,000	\$66,712,000	\$0	\$0	\$0	\$1		\$2,411,000		\$87,369,000	\$87,369,000
Southwest		d Temescal Canyon	Horsethief Canyon Wash	bridge	Secondary	0.00	2 4	0%	0.00	2	3	0 2	40	0	0	\$0	\$0	\$0	\$2,304,000	\$0	\$1	\$230,000	\$576,000		\$3,340,000	\$3,340,000
Southwest		d Temescal Canyon	Indian Truck Trail Indian Wash	I-15	Secondary Secondary	2.57	2 4	0% 0%	5.14	2	3	0	0	0	0 \$8,	44,000	\$2,519,000	\$0	\$0 \$1,008,000	\$0	\$1 \$1	\$894,000 \$101,000	\$2,236,000 \$252.000		\$15,739,000 \$1,462,000	\$15,739,000 \$1,462,000
Southwest	Wildomar	d Temescal Canyon Bundy Canyon	Mission	bridge I-15	Secondary	0.94	2 4	32%	1.27	2	3	0 1	05	0	0 \$1	φυ 141,000	\$6,923,000	\$U	\$1,008,000	\$U \$0	φı •	\$144,000	\$252,000		\$1,462,000	\$1,462,000
Southwest	Wildomar	Grand	Corydon	Wildomar Trail	Secondary	2.02	2 2	0%	0.00	i	2	0	0	0	0 41,	.\$0	\$0,725,000	\$0	\$0	\$0	\$1	\$0.50	\$0	\$0	\$0	\$0,704,000
Southwest	Wildomar	Mission	Bundy Canyon	Palomar	Secondary	0.84	4 4	0%	0.00	i	2	ō	Ō	0	ō	\$0	\$0	\$0	\$0	\$0	\$1	\$0	\$0	\$0	\$0	\$0
Southwest	Wildomar	Palomar	Clinton Keith	Washington	Secondary	0.74	2 4	0%	1.48	1	3	0	0	0		575,000	\$725,000	\$0	\$0	\$0	\$1	\$168,000	\$419,000		\$3,227,000	\$3,227,000
Southwest	Wildomar	Palomar	Mission	Clinton Keith	Secondary	2.79	2 4	21%	4.41 0.59	2	3	0	0	0		67,000	\$2,159,000	\$0	\$0	\$0	\$1	\$767,000	\$1,917,000		\$13,493,000	\$13,493,000
Southwest Southwest	Wildomar Wildomar	Wildomar Trail Wildomar Trail	I-15 I-15	Baxter interchange	Secondary Secondary	0.29 0.00	2 4	0% 0%	0.59	1	3	0	0	0	0 \$	65,000	\$288,000	\$0 \$22,550,000	\$0	\$0	\$1	\$67,000 \$2,255,000	\$166,000 \$5,638,000	\$95,000 \$2,255,000	\$1,281,000 \$32,698,000	\$1,281,000 \$27,858,000
Southwest	Wildomar	Wildomar Trail Wildomar Trail	I-15 Baxter	Interchange Palomar	Secondary Secondary	0.00	2 4	0% 0%	1.48	1	2	0	0	0	0 \$1	\$0 80,000	\$8,073,000	Φ∠∠,55U,UUU €∩	\$0 \$0	\$0 \$0	\$1	\$2,255,000	\$5,638,000 \$420,000		\$32,698,000 \$11,316,000	\$27,858,000 \$11,316,000
Southwest	Wildomar	Wildomar Trail	Palomar	Grand	Secondary	0.51	2 2	0%	0.00	i	2	o o	Ö	Ö	0 \$1,	\$0	\$0,075,000	\$O	\$O	\$O	φ. \$ι	. 4100,000	φ-120,000 .\$Ω	\$0	\$0	\$11,510,000
Subtotal					Secondary	469.28			240.56			22 8,6	50	6 2	6.75 \$303,	507,000	\$590,248,000	\$621,740,000	\$101,280,000	\$237,200,000	\$18,358,00	\$128,215,000	\$320,544,000	\$187,237,000	\$2,508,329,000	\$1,913,028,000
Totals	Network					739.22			558.58			33 17,4	85	9 3	3.89 \$ 741,8	59,000 \$1	1,272,869,000	1,057,070,000	\$ 176,256,000	\$ 374,000,000	\$ 23,259,000	\$ 237,252,000	\$ 593,150,000	\$ 364,535,000 \$	4,840,250,000 \$	3,874,735,000
	Transit																							9	217,870,000 \$	154,831,000
	Administration MSHCP																							9	161,183,000 \$ 64,606,000 \$	161,183,000 53,859,000
	TOTAL																								5,283,909,000 \$	
																									.,, . ,	

				ng Need and Obligated F		VIA ILLA TILLAT CILADI A A V TI	ALE MOLICE CHARE. FYICT MEET LOC FAE CECAUCAIT DESCRIPTION	OF EVICT NEED - O LAN	E A D IST EVISTAVIO	FUTURE V//C TULVE	VICTUARE EVICTNIEED ORLICATED	INCUME EVICT MEED ANGLISO	LICILOD EVICT LIFED AN	CHOR HAISHAD EVICT AISED COA	Updated: July 23, 202
PLAN DIST	Menifee	STREETNAME Ethanac	SEGMENTFROM Goetz	SEGMENTTO TOTA Murrieta	AL COST MAX \$0	SO \$0	MF MSHCP SHARE EXIST NEED LOS E&F SEGMENT DESCRIPTION \$0	% EXIST NEED >2 LAN	0% 0.27	0.87	V/C SHARE EXIST NEED OBLIGATED I	\$0 \$0	\$0 \$0	SHCP UNFUND EXIST NEED COM \$0	VRIVED ANEAND EXIZE NEE
al	Menifee	Ethanac	Murrieta	I-215	\$0	\$0	\$0 \$0	0%	0% 0.29	0.77	\$0 \$0	\$0	\$0 \$0	\$0	
	Menifee Menifee	Ethanac Ethanac	I-215 Sherman	interchange Matthews	\$32,698,000 \$2,674,000	\$32,698,000 \$2,674,000	\$U \$69,000	0% 0%	0% 0.62 0% 0.32	1.21 0.61	\$0 \$0 \$0 \$0	\$0 \$0	\$0 \$0 \$69,000 \$0	\$0 \$0	
al	Menifee	Ethanac	BNSF San Jacinto Branch	railroad crossing	\$105,560,000	\$105,560,000	\$3,640,000	0%	0% 0.32	0.61	\$0 \$0	\$0	\$3,640,000 \$0	\$0	
	Menifee	Menifee Menifee	SR-74 (Pinacate)	Simpson	\$1,307,000	\$1,307,000	\$34,000 Between Rouse and Matthews	11%	11% 0.70 0% 0.36	0.98 0.55	\$0 \$0	\$0	\$34,000 \$0 \$151,000 \$0	\$0	
	Menifee Menifee	Menifee	Salt Creek Simpson	bridge Aldergate	\$4,384,000 \$0	\$4,384,000 \$0	\$151,000 \$0	0%	0% 0.36 0% 0.39	0.55	\$0 \$0 \$0 \$0	\$0 \$0	\$151,000 \$0	\$0 \$0	
al	Menifee	Menifee	Aldergate	Newport	\$0	\$0	\$0	0%	0% 0.45	0.63	\$0 \$0	\$0	\$0 \$0	\$0	
	Menifee Menifee	Menifee Menifee	Newport Holland	Holland Garbani	\$0 \$0	\$0 \$0	\$0 \$0	0%	0% 0.44 0% 0.41	0.72 0.54	\$0 \$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	
	Menifee	Menifee	Garbani	Scott	\$4,353,000	\$4,353,000	\$113,000	0%	0% 0.64	0.96	\$0 \$0	\$0 \$0	\$113,000 \$0	\$0 \$0	
al	Menifee	Menifee/Whitewood	Scott	Murrieta City Limit	\$0	\$0	\$0	0%	0% 0.44	0.76	\$0 \$0	\$0	\$0 \$0	\$0	
	Menifee Menifee	Newport Newport	Goetz Murrieta	Murrieta I-215	\$0 \$1,130,000	\$0 \$1,130,000	\$0	0% 27%	0% 0.59 27% 0.84	0.85 1.08	\$0 \$0 \$0 \$0	\$0 \$0	\$0 \$0 \$29,000 \$0	\$0 \$0	
	Menifee	Newport	I-215	Menifee	\$1,130,000	\$0	\$29,000 Between Pacific Channel and Winter Hawk, and SB1-215 Evit Ramp and SB1-215 On Ramp \$0 Between Menifee Lakes to Menifee, and 1-215 SB On Ramp to Antelope	36%	36% 0.93	1.08	85% \$0 \$0	\$0 \$0	\$0 \$0	\$0	
	Menifee	Newport	Menifee	Lindenberger	\$0	\$0	\$0	0%	0% 0.66	0.94	\$0 \$0	\$0	\$0 \$0	\$0	:
	Menifee Menifee	Newport Scott	Lindenberger I-215	SR-79 (Winchester) Briggs	\$0 \$8,635,000	\$0 \$8,635,000	\$0 \$224,000 Between SB 1-215 On Ramp and Antelope	0% 5%	0% 0.51 5% 0.45	0.69 0.82	\$0 \$0 \$0 \$0	\$0 \$0	\$0 \$0 \$224,000 \$0	\$0 \$0	
	Menifee	Scott	I-215	interchange	\$0	\$0	\$0	0%	0% 1.17	1.54	57% \$0 \$0	\$0	\$0 \$0	\$0 \$0	
	Menifee	Scott	Sunset	Murrieta	\$4,388,000	\$4,388,000	\$114,000	0%	0% 0.94	1.32	91% \$0 \$0	\$0	\$114,000 \$0	\$0	
	Menifee Menifee	Scott SR-74	Murrieta Matthews	I-215 Briggs	\$16,949,000 \$8,254,000	\$12,949,000 \$8,254,000	\$336,000 \$214,000	0% 0%	0% 0.72 0% 0.72	1.03 0.98	\$0 \$4,000,000 \$0 \$0	\$0 \$0	\$440,000 \$0 \$214,000 \$0	\$U \$0	
	Moreno Valley		1-215	Perris	\$13,420,000	\$13,420,000	\$100,000	0%	0% 0.61	0.80	\$0 \$0	\$0	\$100,000 \$0	\$0	
	Moreno Valley		Perris	Nason	\$0	\$0	\$0	0%	0% 0.55	0.75	\$0 \$0	\$0	\$0 \$0	\$0	
	Moreno Valley Moreno Valley		Nason Moreno Beach	Moreno Beach Gilman Sprinas	\$0 \$18,019,000	\$0 \$18,019,000	\$U \$468.000	0% 0%	0% 0.22 0% 0.24	0.48	\$0 \$0 \$0 \$0	\$0 \$0	\$0 \$0 \$468.000 \$0	\$0 \$0	
		Gilman Springs	SR-60	Alessandro	\$7,291,000	\$7,291,000	\$189,000	0%	0% 0.65	0.73	\$0 \$0	\$0	\$189,000 \$0	\$0	
		Gilman Springs	SR-60 Rocho Vista	interchange	\$0	\$0	\$0 \$0	0%	0% 0.60	0.76	\$0 \$0	\$0 \$0	\$0 \$0	\$0	
	Moreno Valley Moreno Valley		Reche Vista Ironwood	Ironwood Sunnymead	\$0	\$∪ \$0	φυ \$0	0% 0%	0% 0.34 0% 0.74	0.46 0.93	\$0 \$0	\$∪ \$0	\$0 \$0	ъо \$0	
al	Moreno Valley	Perris	SR-60	interchange	\$32,698,000	\$11,192,000	\$0	0%	0% 2.03	2.62	34% \$21,506,000 \$0	\$21,506,000	\$0 \$0	\$0	\$21,506,0
	Moreno Valley		Sunnymead	Cactus	\$0	\$0	\$0	0%	0% 0.62	0.76	\$0 \$0	\$0	\$0 \$0	\$0	
	Moreno Valley Moreno Valley		Cactus Country	Harley Knox Heacock	\$0 \$7,486,000	\$0 \$3,799,000	\$0 Between Nandina and Harley Knox \$39,000 Moreno Valley City Limit to Heacock	18% 100%	18% 0.69 100% 0.92	1.01 0.95	\$0 \$0 51% \$3,687,000 \$0	\$0 \$3,687,000	\$0 \$0 \$77,000 \$38,000	\$0 \$38,000	\$3,725,0
al	Perris	11th/Case	Perris	Goetz	\$4,582,000	\$4,582,000	\$34,000	0%	0% 0.76	0.85	\$0 \$0	\$0	\$34,000 \$0	\$0	ψο,/ 20,0
	Perris Perris	Case	Goetz	I-215	\$20,876,000	\$20,876,000	\$155,000 Between Blis and Murrietta	40%	40% 0.80	1.18	\$0 \$0	\$0	\$155,000 \$0	\$0	#ror o
	Perris Perris	Case Ethanac	San Jacinto River Keystone	bridge Goetz	\$1,740,000 \$6,056,000	\$1,235,000 \$6,056,000	\$43,000 \$157,000	0% 0%	0% 1.18 0% 0.07	1.88 0.30	71% \$505,000 \$0 \$0 \$0	\$505,000 \$0	\$60,000 \$0 \$157,000 \$0	\$U \$0	\$505,
al le	Perris	Ethanac	San Jacinto River	bridge	\$5,568,000	\$5,568,000	\$192,000	0%	0% 0.07	0.30	\$0 \$0	\$0	\$192,000 \$0	\$0	
	Perris	Ethanac	I-215	Sherman	\$5,316,000	\$5,316,000	\$39,000	0%	0% 0.53	1.15	\$0 \$0	\$0	\$39,000 \$0	\$0	# 501
	Perris Perris	Goetz Goetz	Case San Jacinto River	Ethanac bridge	\$1,507,000 \$5,568,000	\$999,000 \$3,398,000	\$26,000 Between Case and Ethanac \$117,000	100%	100% 1.06 0% 1.13	1.38 1.50	66% \$508,000 \$0 61% \$2,170,000 \$0	\$508,000 \$2,170,000	\$39,000 \$13,000 \$192,000 \$0	\$13,000 \$0	\$521, \$2,170,
	Perris	Mid-County (Placentia)	I-215	Perris	\$15,655,000	\$15,655,000	\$116,000	0%	0% 0.05	0.21	\$0 \$0	\$0	\$116,000 \$0	\$0	1 -/···-/-
	Perris Perris	Mid-County (Placentia)	I-215 Perris	interchange Evans	\$0 \$22,985,000	\$0 \$22,985,000	\$0 \$171,000	0% 0%	0% 0.46 0% 0.03	0.85 0.11	\$0 \$0	\$0	\$0 \$0 \$171.000 \$0	\$0	
	Perris	Mid-County (Placentia) Mid-County (Placentia)	Perris Valley Storm Channel		\$8,352,000	\$8,352,000	\$288,000	0%	0% 0.03	0.11	\$0 \$0 \$0 \$0	\$0 \$0	\$288,000 \$0	\$0 \$0	
	Perris	Perris	Harley Knox	Ramona	\$0	\$0	\$0	0%	0% 0.86	1.04	\$0 \$0	\$0	\$0 \$0	\$0	
	Perris Perris	Perris Perris	Ramona Citrus	Citrus Nuevo	\$7,063,000 \$0	\$7,063,000 \$0	\$183,000 Between Ramona and Dawes, and Rider and Water	39% 0%	39% 0.83 0% 0.66	1.06 0.97	\$0 \$0 \$0 \$0	\$0 \$0	\$183,000 \$0	\$0 \$0	
	Perris	Perris	Nuevo	11th	\$6,927,000	\$6,927,000	\$51,000	0%	0% 0.72	0.99	\$0 \$0	\$0	\$51,000 \$0	\$0	
	Perris	Perris	I-215 overcrossing	bridge	\$0	\$0	\$0	0%	0% 0.78	1.10	\$0 \$0	\$0	\$0 \$0	\$0	
	Perris Perris	Ramona Ramona	I-215 I-215	Perris interchange	\$5,039,000 \$32,698,000	\$5,039,000 \$7,725,000	\$37,000 Between NB I-215 On Ramp and Webster	26% 0%	26% 0.77 0% 1.80	0.79 2.08	\$0 \$0 24% \$24,973,000 \$0	\$0 \$24,973,000	\$37,000 \$0	\$0 \$0	\$24,973,0
	Perris	Ramona	Perris	Evans	\$0	\$0	\$0	0%	0% 0.67	0.82	\$0 \$0	\$0	\$0 \$0	\$0	φ24,770,0
	Perris	Ramona	Evans	Mid-County (2,800 ft E of Rider)	\$0	\$0	\$0	0%	0% 0.62	1.06	\$0 \$0	\$0	\$0 \$0	\$0	
	Perris Unincorporated	SR-74 (4th)	Ellis SR-74	I-215 Keystone	\$0 \$4,666,000	\$0 \$4,666,000	\$0 Between Navajo and S.A.St \$121,000	22% 0%	22% 0.78 0% 0.04	1.03 0.19	\$0 \$0 \$0 \$0	\$0 \$0	\$0 \$0 \$121.000 \$0	\$0 \$0	
		c Gilman Springs	Alessandro	Bridge Road	\$30,601,000	\$30,601,000	\$869,000 Between Olive and Jackrabbit	41%	41% 0.87	1.43	\$0 \$0	\$0	\$869,000 \$0	\$0	
	Unincorporated		Nuevo	SR-74 (Pinacate)	\$16,684,000	\$16,684,000	\$433,000	0%	0% 0.69	0.98	\$0 \$0	\$0	\$433,000 \$0	\$0	
	Unincorporated	c Mid-County (Ramona)	Evans Ramona (2,800 ft E of Rider)	Ramona (2,800 ft E of Rider) Pico Avenue	\$12,156,000 \$0	\$12,156,000 \$0	\$362,000 \$0	0%	0% 0.08 0% 0.37	0.45 0.96	\$0 \$0 \$0 \$0	\$U \$0	\$362,000 \$0 \$0 \$0	\$0 \$0	
al		c Mid-County (Ramona)	Pico Avenue	Bridge Road	\$47,769,000	\$47,769,000	\$1,240,000	0%	0% 0.82	1.43	\$0 \$0	\$0	\$1,240,000 \$0	\$0	
		c Mid-County (Ramona) c Reche Canyon	San Jacinto River	bridge Reche Vista	\$36,192,000	\$36,192,000	\$1,248,000	0%	0% 0.78 0% 0.84	1.33 0.91	\$0 \$0	\$0	\$1,248,000 \$0	\$0	
	Unincorporated		San Bernardino County Reche Canvon	Country	\$0 \$0	\$0 \$0	\$0 \$0	0%	0% 0.84	0.83	\$0 \$0 \$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	
	Unincorporated	c Scott	Briggs	SR-79 (Winchester)	\$0	\$0	\$0	0%	0% 0.12	0.53	\$0 \$0	\$0	\$0 \$0	\$0	
	Unincorporated		Ethanac	Ellis Temescal Canyon	\$0 \$0	\$0 \$0	\$0 Between Ethanac and Theda, and Mountain and Sofie	34%	34% 0.87 0% 0.47	1.17 0.62	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	
	Corona	Cajalco Cajalco	I-15 I-15	Temescal Canyon interchange	\$0	\$0 \$0	φο \$0	0%	0% 0.47 0% 1.59	2.08	42% \$0 \$0	\$0	\$0 \$0	\$0	
st	Corona	Foothill	Paseo Grande	Lincoln	\$0	\$0	\$0	0%	0% 0.45	0.61	\$0 \$0	\$0	\$0 \$0	\$0	
est est	Corona Corona	Foothill Foothill	Wardlow Wash Lincoln	bridge California	\$0 \$0	\$0 \$0	\$0 \$0	0%	0% 0.47 0% 0.30	0.63 0.42	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	
	Corona	Foothill	California	I-15	\$0	\$0 \$0	\$0	0%	0% 0.30	0.42	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	
t	Corona	Green River	SR-91	Dominguez Ranch	\$0	\$0	\$0	0%	0% 0.53	0.61	\$0 \$0	\$0	\$0 \$0	\$0	
st st	Corona	Green River Green River	Dominguez Ranch Palisades	Palisades Paseo Grande	\$0 \$0	\$0 \$0	\$0 \$0	0% 0%	0% 0.53 0% 0.66	0.60 0.77	\$0 \$0 \$0	\$0 \$0	\$0 \$0 \$0 \$0	\$0 \$0	
	Eastvale	Schleisman	San Bernardino County	600' e/o Cucamonga Creek	\$648,000	\$648,000	\$0	0%	0% 0.65	1.23	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	
st	Eastvale	Schleisman	Cucamonga Creek	bridge	\$0	\$0	\$0	0%	0% 0.72	1.27	\$0 \$0	\$0	\$0 \$0	\$0	
	Eastvale Eastvale	Schleisman Schleisman	600' e/o Cucamonga Creek Harrison	Harrison Sumner	\$866,000 \$488,000	\$866,000 \$488,000	\$0 \$0 Between Spicewood and Sumner	0% 18%	0% 0.69 18% 0.62	1.17 0.96	\$0 \$0 \$0	\$0 \$0	\$0 \$0 \$0 \$0	\$0 \$0	
	Eastvale	Schleisman	Sumner	Scholar	\$7,625,000	\$7,625,000	\$57,000	0%	0% 0.85	0.98	\$0 \$0	\$0 \$0	\$57,000 \$0	\$0 \$0	
est	Eastvale	Schleisman	Scholar	A Street	\$119,000	\$119,000	\$1,000	0%	0% 0.50	0.80	\$0 \$0	\$0	\$1,000 \$0	\$0	
st st	Eastvale Jurupa Vallev	Schleisman Van Buren	A Street SR-60	Hamner Bellegrave	\$209,000 \$23,928,000	\$209,000 \$10,461,000	\$2,000 \$78,000 Between SR-60 and Bellegrave	0% 100%	0% 0.50 100% 1.02	0.84 1.10	\$0 \$0 44% \$13,467,000 \$0	\$0 \$13,467,000	\$2,000 \$0 \$178,000 \$100,000	\$0 \$100,000	\$13,56
†	Jurupa Valley		Bellegrave	Santa Ana River	\$60,900,000	\$10,461,000	\$7.8,000 Between SR-60 and Bellegrave \$0 Between Limonite and Santa Ana River, and Rutile and Bellegrave	59%	59% 1.03	1.13	44% \$19,851,000 \$60,900,000	\$13,467,000	\$178,000 \$452,000 \$147,000	\$0	\$13,3
t	Riverside	Alessandro	Arlington	Trautwein	\$2,410,000	\$2,410,000	\$0 Between Arlington and Via Vista, and Canyon Crest and Trautwein	73%	73% 1.03	1.16	48% \$0 \$0	\$0	\$0 \$0	\$0	
	Riverside Riverside	Arlington Arlington	La Sierra Magnolia	Magnolia Alessandro	\$0 \$46,465,000	\$0 \$46,465,000	\$0 Between Ben Lomond and 300 ft East of Pegasus \$475,000 Between Victoria and Alessandro	13% 36%	13% 0.68 36% 0.80	0.77 0.93	\$0 \$0 \$0 \$0	\$0 \$0	\$0 \$0 \$475,000 \$0	\$0 \$0	
	Riverside	Van Buren	Magnolia Santa Ana River	SR-91	\$5,230,000	\$4,392,000	\$47.5,000 Between Victoria and Alessandro \$33,000 Between Santa Ana River and Cypress	36% 58%	58% 0.80 58% 0.94	1.05	72% \$838,000 \$0	\$838,000	\$39,000 \$6,000	\$6,000	\$84
st	Riverside	Van Buren	SR-91	Mockingbird Canyon	\$39,493,000	\$21,292,000	\$158,000 Between Mockingbird Canyon and Rudicill, and Indiana to \$8.91	95%	95% 1.00	1.10	51% \$18,201,000 \$0	\$18,201,000	\$293,000 \$135,000	\$135,000	\$18,33
	Riverside Piverside	Van Buren	Wood	Trautwein Orange Terrace	\$0 \$7.574.000	\$0 \$7.574.000	\$0 \$54,000	0%	0% 0.79	0.85	\$0 \$0 \$0	\$0	\$0 \$0 \$56,000 \$0	\$0 \$0	
	Riverside Unincorporated	Van Buren c Alessandro	Trautwein Trautwein	Orange Terrace Vista Grande	\$7,574,000 \$0	\$7,574,000 \$0	\$56,000 \$0	0% 0%	0% 0.69 0% 0.79	0.89 0.93	\$0 \$0 \$0 \$0	\$0 \$0	\$56,000 \$0 \$0 \$0	\$0 \$0	
est	Unincorporated		Vista Grande	I-215	\$0	\$0	\$0	0%	0% 0.85	1.04	\$0 \$0	\$0	\$0 \$0	\$0	
est	Unincorporated	c Cajalco	El Sobrante	Harley John	\$10,580,000	\$9,817,000	\$279,000 Between B Sobrante and Gavilan	40%	20% 0.95	1.04	64% \$763,000 \$0	\$763,000	\$301,000 \$22,000	\$22,000	\$78
	Unincorporated Unincorporated		Harley John Harvil	Harvil I-215	\$166,492,000 \$1,238,000	\$166,492,000 \$1,238,000	\$1,236,000 Between Harley John and Wood, and Cole and Alexander, and Carroll and Seaton \$32,000	63% 0%	31% 0.87 0% 0.78	1.05 0.84	\$0 \$0 \$0 \$0	\$0 \$0	\$1,236,000 \$0 \$32,000 \$0	\$0 \$0	
'est		c Cajalco	Temescal Canyon	La Sierra	\$49,596,000	\$35,953,000	\$1,071,000 Between Temesacal Canyon and Sierra	100%	50% 1.06	1.19	45% \$13,643,000 \$0	\$13,643,000	\$1,477,000 \$406,000	\$406,000	\$14,049
est			T 1144 1	bridge	¢ 4 972 000	\$1,907,000	\$66,000	0%	0% 1.13	1.27	39% \$2,965,000 \$0	\$2,965,000	\$168,000 \$0	\$0	\$2,965.
vest vest	Unincorporated		Temescal Wash		\$4,872,000										4-7-4-7
est est est		c Cajalco	La Sierra Mockingbird Canyon	El Sobrante Wood	\$96,453,000 \$67,429,000	\$96,453,000 \$67,429,000	\$2,872,000 \$501,000 Between Washington and Wood	0% 0% 47%	0% 0.78 47% 0.89	0.85 1.04	\$0 \$0 \$0 \$0	\$0 \$0	\$2,872,000 \$0 \$501,000 \$0	\$0 \$0	

Updated: July 23, 2024

	EXHIBIT H	1-2 TUM	F Network Detailed	Cost Estimate - Exist	ing Need and Obligat	ted Funding														Updated: July 23, 2024
Column	AREA PLAN DI					TOTAL COST M	aximum tumf share m	NAX TUMF MSHCP SHARE	EXIST NEED LOS E&F SEGMENT DESCRIPTION	% EXIST NEED >2 LAN	VE ADJST EXIST V	/C FUTURE V/C	C TUMF V/C SHARE EX	XIST NEED	OBLIGATED UN	FUND EXIST NEED MSHCP	MSH	ICP EXIST NEED MSHC	P UNFUND EXIST NEED COI	MBINED UNFUND EXIST NEED
Section Sect	Pass					\$0	\$0	\$0		0%			5007	\$0	\$0	\$0	\$0	\$0	\$0	\$0
March Marc				1 10		\$63,061,000	\$32,516,000	\$0 \$0		0%			52%	\$30,545,000	\$14,698,000	\$15,847,000	\$0	\$0	\$0	\$15,847,000
Manual M						\$O	\$0	\$O \$O		0%				\$0	\$0	\$0 \$0	\$0	\$0	\$0	\$0 \$0
Net 1 Work 1 Wor						\$50,110,000	\$50,110,000	\$372,000		0%				\$0	\$0	\$0	\$372,000	\$0	\$0	\$0
Column C	Pass	Banning		I-10				\$0		0%				\$0	\$0	\$0	\$0	\$0	\$0	\$0
Part										0%				\$0	\$0	\$0		\$0	\$0	\$0
March Marc								\$1,820,000		0%				\$0	\$0	\$0	\$1,820,000	\$0	\$0	\$0
Section Perform Perf								\$0		0%				\$0	\$0	\$0	\$0	\$0 \$0	\$0	\$0
Section Sect										0%				\$U \$0	\$33 500 000 \$U	\$0	\$29,000	\$O	\$0 \$0	\$0
No. Windows								7.		0%				\$O	\$00,000,000	\$O	\$1.380.000	\$0	\$O	\$O
Second S				Noble Creek				\$0		0%				\$0	\$0	\$0	\$0	\$0	\$0	\$0
Property						\$0	\$0	\$0		0%				\$0	\$0	\$0	\$0	\$0	\$0	\$0
Control Cont	Pass		SR-79 (Beaumont)	I-10	California	\$0	\$0	\$0	Between I-10 WB On Ramp and California	100%	100% 1.05		46%	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Street Control Contr								\$0		0%					\$0		\$0	\$0	\$0	\$55,653,000
Description Property Description Property Description Descri								\$0		0%			95%	\$3,288,000	\$443,000	\$2,845,000	\$0	\$0	\$0	\$2,845,000
Second column										0%				\$0	\$0	\$0		\$0	\$0	\$0
Process						\$6,411,000	φ6,411,000 ¢n	\$166,000 0\$		0%	-,-			\$U \$0	ΦU \$0	\$0	\$166,000	\$O	ΦU	\$0
Part						\$0 \$0	\$O	\$0 \$0		0%				\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$O	\$0 \$0	\$0 \$0
Part						\$0	\$0	\$0		0%				\$0	\$0	\$0	\$0	\$0	\$0	\$0
May	Pass				Gilman Springs	\$0	\$0	\$0	Between California and Gilman Springs	100%			42%	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Part		Hemet	Domenigoni			\$7,726,000	\$7,726,000	\$201,000		0%				\$0	\$0	\$0	\$201,000	\$0	\$0	\$0
Second Control Contr						\$0	\$0	\$0		-,-				\$0	\$0	\$0	\$0	\$0	\$0	\$0
Second S						\$35,208,000	\$35,208,000	\$261,000	Between Warren and 650 ft East of Cordoba					\$0	\$0	\$0	\$261,000	\$0	\$0	\$0
Second S						\$0	\$0	\$0		0%				\$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0	\$0 *^
Property						\$U \$0	\$U \$0	ψ0 Φ0		U% 0%				\$O	ΦU \$Ω	φ∪ \$∩	φυ ¢n	\$O	φU ¢n	\$0 \$0
Page						\$0 \$0	\$O	\$O .\$O		0%				φU .\$O	\$0	\$0	\$0	\$O	\$0 \$0	\$0 \$0
Second S						\$31,518,000	\$26,928,000	\$200,000	Between 7th and Rue Pinot Blanc, and Hemet and Mountain	68%			57%	\$4,590,000	\$0	\$4,590,000	\$234,000	\$34,000	\$34,000	\$4,624,000
Second Company Compa			Ramona	Cedar	SR-74	\$0	\$0			0%	0% 0.29	0.35		\$0	\$0	\$0		\$0	\$0	\$0
December Configuration C	San Jacinto	Unincorporate	tec Domenigoni	SR-79 (Winchester)	Warren					0%				\$0	\$0	\$0		\$0	\$0	\$0
December Maringarine Mar						\$4,176,000	\$4,176,000	\$144,000		0%				\$0	\$0	\$0	\$144,000	\$0	\$0	\$0
Second S				· W ·		\$0	\$0	\$0		0%				\$0	\$0	\$0	\$0	\$0	\$0	\$0
Secondary Company Co			(0%				\$0	\$0	\$0		\$0	\$0	\$0
Contract									Between Briggs and Sultanas	14%				\$U \$0	\$O	\$0		\$O	\$0 \$0	\$0
Day 1000 Description Des										0%				\$0	\$0	\$0 \$0		\$0	\$O \$0	\$O
Description										0%				\$0	\$0	\$0		\$0	\$0	\$0
Description										0%		0.73		\$0	\$0	\$0	\$1,472,000	\$0	\$0	\$0
Solution Control Con	San Jacinto	Unincorporate	tec SR-79 (Sanderson)	Gilman Springs	Ramona				Between Ramona and Gilman Springs	100%					\$0			\$113,000	\$113,000	\$4,457,000
Suffreed Convol Load Conference Conf										-,-			39%	\$11,837,000	\$0	\$11,837,000		\$0	\$0	\$11,837,000
Southwest Composition Co								\$483,000		0,0				\$0	\$0	\$0	\$483,000	\$0	\$0	\$0
Southwest List Burner Southwest						\$0	\$0	\$0		0%				\$0	\$0	\$0	\$0	\$0	\$0	\$0
Soltment Line Elines Soltment Line Soltment Line						\$0 \$0	\$U \$0	\$0 \$0	Returned NR LECO Demonstration	0% 2%				\$U \$0	\$U \$0	\$0	\$U \$O	\$O	\$0 \$0	\$0
Southwest Marked Configuration Southwest Marked Southwest Marke						\$O	\$0	\$0	serween No F3 On Kump and sommentin	0%			26%	\$0	\$O	\$0	\$0	\$0	\$0	\$O
Southwest Mustric Clinion Relim Toulon 125 \$2076,000 \$2076,000 \$2076,000 \$30						\$63.061.000	\$24.162.000	\$0		0%				\$38.899.000	\$0	\$38.899.000	\$0	\$0	\$0	\$38,899,000
Southwest Municles Rench (Valley College) Authorited French (Valley College) Authorite	Southwest	Murrieta	Clinton Keith	Copper Craft	Toulon	\$0	\$0	\$0	Between California Oaks and Toulon	35%	35% 0.76	0.95		\$0	\$0	\$0	\$0	\$0	\$0	\$0
Southwest Munife Fench Valley (Dele) Munife Information Southwest Southwest Information Southwest Informa						\$2,076,000	\$2,076,000	\$54,000	Between Toulon and Thousand Oaks, and Duster and McElwain	52%				\$0	\$0	\$0	\$54,000	\$0	\$0	\$0
Southwest Municipal Muni						\$0	\$0	\$0		0%				\$0	\$0	\$0	\$0	\$0	\$0	\$0
Southwest Muster of Wister County of Muster County of Mus						\$7,321,000	\$7,321,000	\$54,000		0%	-,- 0.,,			\$0	\$0	\$0	\$54,000	\$0	\$0 \$0	\$0
Southwest Multiella Mult						\$0	\$0 \$0	\$0		U%				\$0	\$U \$0	\$U \$0	\$U \$0	\$U	\$U \$0	\$0
Southwest Femecula						ΦU \$∩	ΦU \$∩	¢ ∪		0%				ΦU \$0	фU \$П	ΦΩ \$Ω	\$O	\$O	\$O	\$ ∪
Southwest Femecula Femech Valley (Cherry Munier Creek Infect Valley (Cherry Munier Creek Marganita Valley Marganita Valley Marganita Valley Marganita Valley Marganita Valley Va						\$3.929.000	\$3.929.000	\$29.000		0%				\$0	\$0	\$0	\$29,000	\$0	\$0	\$O
Fame-cuta Femeric Fe								\$202,000		0%				\$0	\$0	\$0		\$0	\$0	\$0
Southwest Temeculo Temeculo Temeculo Temeculo Temeculo Temeculo Temeculo Ser.79 (Winchester) Multine Indication M	Southwest	Temecula	French Valley (Date)	Margarita		\$0	\$0	\$0		0%	0% 0.20	0.34		\$0	\$0	\$0	\$0	\$0	\$0	\$0
Southwest Temecula SR-79 Minchesters Heritan										0%				\$0	\$0	\$0		\$0	\$0	\$0
Southwest Temecula Se.77 Minchester Femologia Se.72 Section								77		0,0			0	\$0	\$0	\$0	ΨΟ	\$0	\$0	\$0
Southwest Temecula Western Byposs (Dirace) Cherry Rancho Colifloria \$2,285,000 \$23,629						\$2,697,000	\$2,697,000	\$0	Between Promenade Mall West and Murrieta Hot Springs, and I-15 NB On Ramp to 250 ft East of Jefferson Ave					\$0	\$0	\$0	\$0 \$0	\$0 \$0	\$0 \$^	\$0
Southwest Temeculo Western Byposs Vincern Mork Norcho California \$23,42900 \$23,62900 \$29,600 \$0 \$0 \$0 \$0 \$0 \$0 \$0						\$0 \$2.285.000	\$0 \$2.285.000	\$U \$17,000					∠4%	\$0 \$0	⊅U ¢∩	\$O	\$17 000	\$O	\$O \$0	\$0 \$0
Southwest Temecula Western Bypacs Vincent More 1.5 Interchange \$0. \$0. \$0. \$0. \$0. \$0. \$0. \$0. \$0. \$0.										0%				φU \$∩	\$0	φ∪ \$∩		\$O	φ0 \$Ω	¢ ∪
Southwest Temecula Western Byroass Vinicerporates Ending Section Winicerporates Ending Section S							\$0	φ270,000 \$Ω		0%			36%	\$0	\$0	\$0		\$0	\$0	\$0
Southwest Unincorporate Clinton Keith Whitewood SR-79						\$4,176,000	\$4,176,000	\$144,000		0%			,-	\$0	\$0	\$0	\$144,000	\$0	\$0	\$0
Southwest Unincorporate Clinton Keith Warm Springs Creek Dridge \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	Southwest		tec Benton	SR-79		\$0	\$0	\$0		0%	0% 0.26	0.35		\$0	\$0	\$0	\$0	\$0	\$0	\$0
Southwest Unincorporate SR-74										0%				\$0	\$0	\$0		\$0	\$0	\$0
Southwest Unincorporates SR-79 (Winchester) Thompson LA Iba \$27,699,000 \$34,213,000 \$326,0000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0							ΨΟ	ΨΟ		0,0				\$0	\$0	\$0	ΨΟ	\$0	\$0	\$0
Southwest Unincorporate c SR-79 (Winchester) Thompson La Alba \$27,699,000 \$20,6000 \$20,000 \$20,000 \$20,000 \$20,000 \$20,000 \$30									Between I-15 nd Dexter, and Conard and Riverside, and Steele Valley and Peach, and Meadowbrook and Ett				92%	\$1,352,000	\$0	\$1,352,000		\$38,000	\$38,000	\$1,390,000
Southwest Unincorporates SR-79 (Winchester) La Alba Hunter \$7.854.000 \$30.402.000 \$22.000 between Nation and Numbers Alba or a														\$ 0	\$U \$0	\$U \$0		\$U \$0	\$U	\$0
Southwest Unincorporace SR-79 (Winchester) Hunter Murried Hot Springs \$595,000 \$442,000 \$11,000 \$etheren Murried Robert Jones, and Bosel 75% 75% 0.95 1.04 66% \$153,000 \$153,000 \$4,000 \$4,000 Southwest Wildomar Bundy Canyon Hone Vista \$1,362,000 \$39,000 \$89,000 \$80 \$9 \$9 \$9 \$9 \$9 \$9 \$0													3997	\$4.812.000	⊅U ¢∩	φυ \$4.812.000		\$34 000	75. 000 35.	\$0 \$4.848.000
Southwest Wildomar Bundy Canyon H-15 Monte Vista \$1,362,000 \$1,362,000 \$39,000 between Monte Vista 75% 75% 0.84 1.16 \$0 \$0 \$0 \$39,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0								\$11.000	Between Murrieta Hot Springs and Robert Jones, and Borel						\$0					\$157,000
Southwest Wildomar Bundy Caryon Monte Vista Sunset \$24,818,000 \$24,818,000 \$739,000 between Monte Vista and Oak Circle 37% 37% 0.89 1.18 \$0													50,0	\$0	\$0				\$0	\$0
Southwest Wildomar Bundy Canyon I-15 interchange \$32,698,000 \$24,613,000 \$0														\$0	\$0	\$0		\$0	\$0	\$0
Southwest Wildomar Clinton Keith 1-15 Copper Craft \$5,030,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0					interchange			\$0			0% 1.12	1.77	75%	\$8,085,000	\$0	\$8,085,000		\$0	\$0	\$8,085,000
						ΨΟ	\$0	\$0		0%				\$0	\$0	\$0	ΨΟ	\$0	\$0	\$0
200000 10 20 20 20 20 20 20 20 20 20 20 20 20 20		Wildomar	Clinton Keith	1-15	Copper Craft		\$0	\$0	Between Inland Valley and Smith Ranch, and Covington and Copper Craft	60%	60% 0.89	1.01		\$0	\$5,030,000	\$0		\$0	\$0	\$0 252,588,000
	JUDIUIGI					φz,331,721,UUU	φ1,701,/U/,UUÜ	\$30,262,000		ιυ.δ%				φ∠00,033,UUÜ	پالار,۱/د,۵۱۱م	φ201,040,UUU .	puz,000,000	φ1,U7∠,UUU	945,UUU	252,588,000

				ing Need and Obligated Funding														Updated: July 23, 2024
AREA PLAN [Central	DIST CITY Menifee	STREETNAME Briggs	SEGMENTFROM Newport	SEGMENTTO TOTAL COST Scott	MAXIMUM TUMF SHAF	REMAX TUMF MSHCP SHARE	EXIST NEED LOS E&F SEGMENT DESCRIPTION	% EXIST NEED >2 LA		T V/C FU1 .18	TURE V/C TUMF V/C 0.48	SHARE EXIST NEED (DBLIGATED U	NFUND EXIST NEED MSHC	P M	SHCP EXIST NEED A	MSHCP UNFUND EXIST NEED	D COMBINED UNFUND EXIST NEED
Central	Menifee	Briggs	SR-74 (Pinacate)	Simpson \$2,99	91,000 \$2,991,000			0%	0% 0	.05	0.23	\$0	\$0	\$0 \$0	\$78,000	\$0 \$0	\$	0 \$0
Central	Menifee	Briggs	Simpson	Old Newport \$5,43	30,000 \$5,430,000			0%	0% 0		0.78	\$0	\$0	\$0	\$141,000	\$0	\$	0 \$0
Central Central	Menifee Menifee	Briggs Garbani	Salt Creek I-215	bridge \$8,35 interchange \$63,06	52,000 \$8,352,000 51,000 \$42,483,000			0% 0%			0.74 1.85	\$0 67% \$20,578,000	\$0 \$0	\$0 \$20,578,000	\$288,000 \$0	\$0 \$0	\$1	0 \$0 0 \$20,578,000
Central	Menifee	Goetz	Juanita		78,000 \$11,378,000		=	0%	0% 0		0.94	\$0	\$0	\$0	\$295,000	\$0	\$	0 \$0
Central	Menifee	Goetz	Newport	Juanita	\$0 \$0)	=	0%			0.97	\$0	\$0	\$0	\$0	\$0	\$	0 \$0
Central Central	Menifee Menifee	Holland Holland	Murrieta Bradley	Bradley \$15,70 Haun \$11,43	08,000 \$15,708,000 39,000 \$11,439,000			0% 0%			0.87 0.94	\$0 \$0	\$0 \$0	\$0 \$0	\$117,000 \$85,000	\$0 \$0	\$	0 \$0
Central	Menifee	Holland	Haun		56,000 \$9,456,000			0%			0.96	\$0 \$0	\$0	\$0 \$0	\$70,000	\$0 \$0	\$	0 \$0
Central	Menifee	Holland	I-215 overcrossing		44,000 \$9,744,000			0%	0% 0	.76	0.96	\$0	\$0	\$0	\$336,000	\$0	\$	0 \$0
Central	Menifee Menifee	Holland McCall	Antelope I-215		44,000 \$3,844,000 54,000 \$5,354,000			0%			0.50 0.65	\$0 \$0	\$0 \$0	\$0 \$0	\$29,000 \$139,000	\$0 \$0	\$	0 \$0
Central Central	Menifee	McCall	I-215	interchange \$5,53	\$0 \$0		, n	0%			2.02	39% \$0	\$O	\$0 \$0	\$137,000	\$0 \$0	Φ \$	iO \$0
Central	Menifee	McCall	Aspel		38,000 \$2,288,000			0%	0% 0		0.71	\$0	\$0	\$0	\$59,000	\$0	\$	iO \$0
Central	Menifee	Murrieta	Ethanac	McCall	\$0 \$0			0%			0.84	\$0	\$0	\$0	\$0	\$0	\$	0 \$0
Central Central	Menifee Menifee	Murrieta Murrieta	McCall Newport	Newport \$7,96 Bundy Canyon	\$7,000 \$7,967,000 \$0 \$6		J N	0%			0.84 0.69	\$0 \$0	\$0 \$0	\$0 \$0	\$207,000 \$0	\$0 \$0	\$1	(O \$0
Central	Moreno Valle		1-215		17,000 \$5,617,000		Between Goldencrest and Arial, and Frontage Road and 250 ft East	7%			0.84	\$0	\$0	\$0	\$42,000	\$0	\$	0 \$0
Central	Moreno Valle		I-215	interchange	\$0 \$0) :	0	0%	0% 1	.22	1.43	40% \$0	\$0	\$0	\$0	\$0	\$	0 \$0
Central	Moreno Valle		Ironwood	SR-60	\$0 \$0		0	0%			0.63	\$0	\$0	\$0	\$0	\$0	\$	0 \$0
Central Central	Moreno Valle Moreno Valle		SR-60 SR-60	interchange Eucalyptus	\$0 \$0)	n N	0% 0%			1.21 0.58	60% \$0 \$0	\$U \$0	\$U \$0	\$0 \$0	\$0 \$0	\$ ¹	O \$0
Central		ey Eucalyptus	I-215		43,000 \$8,843,000	\$66,00	0	0%			0.72	\$0	\$0	\$0	\$66,000	\$0	\$	io \$0
Central	Moreno Valle	ey Eucalyptus	Towngate	Frederick	\$0 \$0)	0	0%	0% 0	.43	0.69	\$0	\$0	\$0	\$0	\$0	\$	0 \$0
Central		ey Eucalyptus	Frederick	Heacock	\$0 \$0)	0	0%			0.67 0.71	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$	0 \$0
Central Central		ey Eucalyptus ey Eucalyptus	Heacock Kitching	Kitching Moreno Beach	\$0 \$0))	n	0%			0.28	\$O	\$0	\$O	\$0 \$0	\$0 \$0	Φ' ¢	O \$0
Central		ey Eucalyptus	Moreno Beach	Theodore	\$0 \$0	j :	0	0%	0% 0		0.12	\$0	\$0	\$0	\$0	\$0	\$	io \$0
Central	Moreno Valle		SR-60	Alessandro	\$0 \$0)	D Between SR-60 and Sunnymead	5%			0.59	\$0	\$0	\$0	\$0	\$0	\$	60 \$0
Central Central	Moreno Valle		Cactus Peche Vista	San Michele	\$U \$()	บ ก	0%			0.96 0.66	\$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$'	.u \$0
Central	Moreno Valle Moreno Valle		Reche Vista San Michele	Cactus Harley Knox	\$0 \$1)	0	0%	0% U		0.86	.\$∩	.\$Ω	\$O	\$O	.\$∩ ∩#.	Ф 9	.○ \$∩
Central	Moreno Valle		SR-60	Day	\$0 \$0)	0	0%	0% 0	.82	1.02	\$0	\$0	\$0	\$0	\$0	\$	0 \$0
Central	Moreno Valle	,	Day	Heacock	\$0 \$0)	0	0%	0% 0		0.84	\$0	\$0	\$0	\$0	\$0	\$	0 \$0
Central Central	Moreno Valle Moreno Valle		Alessandro John F Kennedy	John F Kennedy Oleander	\$0 \$0 \$0 \$1))	D Between Via Xavier and Krameria	0% 13%			0.79 1.01	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$.u \$0
Central		ey Moreno Beach	Reche Canyon	SR-60 \$18,79	97,000 \$18,797,000		D Between Via Xavier and Krameria D Between SR-60 and SR-60 WB Exit Ramp	5%			0.65	\$0 \$0	\$0	\$0	\$140,000	\$0 \$0	\$	\$0 \$0
Central	Moreno Valle	ey Moreno Beach	SR-60 overcrossing	bridge	\$0 \$0) , , , , , ,	0	0%	0% 0	.95	1.27	87% \$0	\$0	\$0	\$0	\$0	\$	0 \$0
Central	Moreno Valle		SR-60	Alessandro	\$0 \$0)		0%			0.83	\$0 74% \$0	\$0	\$0	\$0	\$0	\$	SO \$0
Central Central		ey Pigeon Pass ey Pigeon Pass/CETAP Corrido	Ironwood or Hidden Springs	SR-60 Ironwood	φυ \$0 \$0	,)	D Between SR-60 and SR-60 WB On Ramp, and Hemlock and Ironwood	87% 0%			1.07 0.48	74% \$0 \$∩	\$U \$0	\$U \$∩	\$U \$0	\$U \$.0	\$1	io \$0
Central		ey Reche Canyon	Moreno Valley City Limit	Locust	\$0 \$0)	0	0%			0.19	\$0	\$0	\$0	\$0	\$0	\$	0 \$0
Central	Moreno Valle	ey Redlands	Locust	Alessandro \$39,78			D Between Locust and Iranwood	27%	27% 0	.80	0.97	\$0	\$0	\$0	\$295,000	\$0	\$	0 \$0
Central	Moreno Valle		SR-60		98,000 \$32,698,000		0	0%			0.51	\$0	\$0	\$0	\$0	\$0	\$'	0 \$0
Central Central	Moreno Valle Moreno Valle		SR-60 SR-60		56,000 \$3,966,000 98,000 \$32,698,000		J N	0%			0.99	\$U \$0	\$U \$0	\$U \$0	\$29,000 \$0	\$0 \$0	Ф Ф	O \$0
Central	Perris	Ellis	Goetz		26,000 \$9,526,000		0	0%			0.14	\$0	\$0	\$0	\$247,000	\$0	\$	0 \$0
Central	Perris	Evans	Oleander	Ramona	\$0 \$0)	0	0%			1.10	\$0	\$0	\$0	\$0	\$0	\$	0 \$0
Central	Perris Perris	Evans	Ramona	Morgan Rider	\$0 \$0)	0	0% 50%			1.15 1.06	\$0	\$0	\$0	\$0 \$0	\$0	\$'	0 \$0
Central Central	Perris	Evans Evans	Morgan Rider	Placentia	\$0 \$0		D Between Morgan and Sinclair D Between Placentia and 350 ft North	11%			0.69	\$0 \$0	\$0 \$0	\$0 \$0	\$0	\$0	\$ \$	iO \$0
Central	Perris	Evans	Placentia	Nuevo \$6,49	92,000 \$6,492,000		Between Placentia and 220 ft South, and Moraga and Sunset	9%			0.79	\$0	\$0	\$0	\$169,000	\$0	\$	60 \$0
Central	Perris	Evans	Nuevo	Ellis \$17,70		\$460,00	0	0%			0.33	\$0	\$0	\$0	\$460,000	\$0	\$	0 \$0
Central Central	Perris Perris	Evans Evans	San Jacinto River I-215	bridge \$11,13 bridge \$8,35	36,000 \$11,136,000 52,000 \$8,352,000			0%			0.13 0.13	\$U \$0	\$U \$0	\$U \$0	\$384,000 \$288,000	\$0	\$ ¹	50 \$0
Central	Perris	Goetz	Lesser		45,000 \$7,845,000 45,000 \$7,845,000			7%			1.13	\$0 \$0	\$0 \$0	\$0 \$0	\$204,000	\$0	\$ \$	0 \$0
Central	Perris	Harley Knox	I-215	Indian	\$0 \$0			0%	0% 0	.31	0.38	\$0	\$0	\$0	\$0	\$0	\$	60 \$0
Central	Perris	Harley Knox	I-215	interchange	\$0 \$0)	0	0%			1.62	88% \$0	\$0	\$0	\$0	\$0	\$	50 \$0
Central Central	Perris Perris	Harley Knox Harley Knox	Indian Perris	Perris Redlands	\$0 \$0)	J	0%			0.15 0.47	\$U \$0	\$U \$0	\$0	\$0	\$0	\$ ¹	50 \$0
Central	Perris	Nuevo	I-215		71,000 \$16,971,000	\$126,00	0	0%			0.83	\$0 \$0	\$0	\$0 \$0	\$126,000	\$0	\$	iO \$0
Central	Perris	Nuevo	I-215	interchange \$32,69	98,000 \$19,736,000)	0	0%	0% 1	.53	2.50	60% \$12,962,000	\$0	\$12,962,000	\$0	\$0	\$	0 \$12,962,000
Central	Perris	Nuevo	Murrieta		57,000 \$4,367,000	\$113,00	0	0%			0.68	\$0	\$0	\$0	\$113,000	\$0	\$	50 \$0
Central Central	Perris Perris	Nuevo SR-74 (Matthews)	Perris Valley Storm Channel I-215	bridge Ethanac	\$0 \$0) 1	n n	0% 0%			0.67 0.98	\$U \$0	\$U \$0	\$U \$0	\$0 \$0	\$0 \$0	\$	in \$0
Central	Perris	SR-74 (Matthews)	I-215		98,000 \$21,835,000		0	0%			2.42	67% \$10,863,000	\$0	\$10,863,000	\$0	\$0	\$	0 \$10,863,000
Central		tec Center (Main)	I-215	Mt Vernon	\$0 \$0)	D Between I-215 and Highgrove	4%			0.67	\$0	\$0	\$0	\$0	\$0	\$	iO \$0
Central		tec Center (Main)	I-215		98,000 \$11,912,000		0	0%			3.22	36% \$20,786,000	\$0	\$20,786,000	\$0	\$0	\$'	0 \$20,786,000
Central Central	Unincorporat	tec Center (Main) tec Ellis	BNSF Post	railroad crossing \$20,01 SR-74 \$11,55	10,000 \$20,010,000 50,000 \$11,550,000			0%			0.82 0.46	\$0 \$0	\$0 \$0	\$0	\$690,000 \$300,000	\$0 \$0	\$ 5	iO \$10
Central	Unincorporat	tec Mount Vernon/CETAP Corri		Pigeon Pass \$2,58	32,000 \$2,582,000	\$77,00	0	0%	0% 0	.58	0.96	\$0	\$0	\$0	\$77,000	\$0	\$	60 \$0
Central	Unincorporat		Dunlap		37,000 \$2,505,000		Between Dunlap and Menifee	100%			1.30	\$0	\$6,232,000	\$0	\$227,000	\$0	\$	60 \$0
Central Central	Unincorporat	tec Nuevo tec Pigeon Pass/CETAP Corrido	San Jacinto River or Hidden Springs		58,000 \$5,568,000 06,000 \$8,106,000			0% 0%			1.36	40% \$0	\$U \$0	\$U \$∩	\$192,000 \$241,000	\$U \$.0	\$1	io \$0
Central	Unincorporat	tec Post	Santa Rosa Mine	Ellis	\$0 \$0) 4241,00	D	0%	0% 0	.58	1.07	\$0	\$0	\$0	\$0	\$0	\$.0 \$0
Central		tec Reche Canyon	Reche Vista	Moreno Valley City Limit	\$0 \$0)	0	0%	0% 0	.02	0.19	\$0	\$0	\$0	\$0	\$0	\$	\$0
Central Northwest	Unincorporat Corona	tec Redlands 6th	San Timoteo Canyon SR-91	Locust Magnolia	\$0 \$0 \$0 \$0		D Between Locust and San Timoteo	100%			1.51 0.55	31% \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$	0 \$0 0 \$0
Northwest	Corona	Auto Center	Railroad	SR-91	\$0 \$0		0	0%	0% U		0.32	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$ \$	
Northwest	Corona	Cajalco	Bedford Canyon	I-15	\$0 \$0)	0	0%	0% 0	.51	0.79	\$0	\$0	\$0	\$0	\$0	\$	60 \$0
Northwest	Corona	Hidden Valley	Norco Hills	McKinley	\$0 \$0		0	0%	0% 0		0.72	\$0	\$0	\$0	\$0	\$0	\$1	· · · · · · · · · · · · · · · · · · ·
Northwest Northwest	Corona Corona	Lincoln Magnolia	Parkridge 6th	Ontario Sherborn \$7.05	\$0 \$0 54,000 \$6,419,000		D D Between 6th and Sherborn	0% 100%	0% 0 100% 0		0.65 1.07	\$0 91% \$635,000	\$0 \$0	\$0 \$635,000	\$0 \$52,000	\$0 \$5,000	\$ \$5,00	0 \$0 0 \$640,000
Northwest	Corona	Magnolia Magnolia	Temescal Creek		76,000 \$3,580,000)	0%			1.08	86% \$596,000	\$0 \$0	\$596,000	\$52,000 \$144,000	\$5,000	\$5,00	
Northwest	Corona	Magnolia	Sherborn	Rimpau	\$0 \$0) :	Between Rimpau and I-15 SB On Ramp, and Montecito and Sherborn	60%	60% 0	.93	1.04	77% \$0	\$0	\$0	\$0	\$0	\$	60 \$0
Vorthwest	Corona	Magnolia	Rimpau	Ontario	\$0 \$0		0	0%			0.73	\$0	\$0 \$0	\$0	\$0	\$0	\$	0 \$0
Northwest Northwest	Corona Corona	Main Main	Grand Ontario	Ontario Foothill	\$0 \$0 \$0 \$0		0	0% 0%			0.81 0.50	\$U \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$	0 \$0 0 \$0
Northwest	Corona	Main	Hidden Valley		14,000 \$4,389,000		D Between Hidden Valley and Parkridge	100%	100% 0		1.12	83% \$925,000	\$0 \$0	\$925,000	\$39,000	\$7,000	\$7,00	
Vorthwest	Corona	Main	Parkridge	SR-91	\$0 \$0) :	Between SR-91 WB On Ramp and Grand	8%	8% 0	.62	0.73	\$0	\$0	\$0	\$0	\$0	\$1	0 \$0
Vorthwest	Corona	Main	SR-91	S. Grand	\$0 \$0		D Between 3rd and 4th	8%			0.65	\$0	\$0	\$0	\$0	\$0	\$	
Northwest Northwest	Corona Corona	McKinley McKinley	Hidden Valley Promenade	Promenade SR-91	\$0 \$0 \$0 \$0		0	0% 0%	0% 0 0% 0		0.86 0.66	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$\ \$	· · · · · · · · · · · · · · · · · · ·
Northwest	Corona	McKinley	SR-91	Magnolia	\$0 \$0		0	0%	0% 0	.76	0.81	\$0	\$0	\$0 \$0	\$0 \$0	\$0 \$0	\$	
Northwest	Corona	McKinley	Arlington Channel	bridge	\$0 \$0) :	0	0%	0% 0	.81	0.89	\$0	\$0	\$0	\$0	\$0	\$	
Vorthwest	Corona	McKinley	BNSF	railroad crossing \$105,56			0	0%			0.89	\$0	\$105,560,000	\$0	\$3,640,000	\$0	\$	0 \$0
Northwest Northwest	Corona Corona	Ontario Ontario	I-15 Lincoln	El Cerrito \$13,45 Buena Vista	51,000 \$13,451,000 \$0 \$0		D Between State and Rising Sun	32% 0%			0.93 0.71	\$0 \$0	\$0 \$0	\$0 \$0	\$100,000 \$0	\$0 \$0	\$	0 \$0 0 \$0
Northwest	Corona	Ontario	Buena Vista	Main	\$0 \$0		- D	0%			0.47	\$0	\$0	\$0	\$0	\$0 \$0	\$	0 \$0
Northwest	Corona	Ontario	Main	Kellogg	\$0 \$0		0	0%	0% 0	.39	0.41	\$0	\$0	\$0	\$0	\$0	\$	0 \$0
Vorthwest	Corona	Ontario	Kellogg	Fullerton	\$0 \$0)	ט	0%	0% 0		0.42	\$0	\$0	\$0	\$0	\$0	\$	0 \$0
Northwest Northwest	Corona Corona	Ontario Ontario	Fullerton Rimpau	Rimpau I-15	\$0 \$0 \$0 \$0		D Between Compton and 1-1558 On Ramp	0% 7%			0.49 0.57	\$0 \$0	\$U \$0	\$0 \$0	\$U \$0	\$0 \$0	\$	60 \$0 60 \$0
Northwest	Corona	Railroad	Auto Club	Buena Vista	\$0 \$0		O	0%	0% 0		0.30	\$0	\$0	\$0 \$0	\$0	\$0	\$	0 \$0
Northwest	Corona	Railroad	BNSF	railroad crossing \$40,02	20,000 \$40,020,000		0	0%	0% 0	.31	0.34	\$0	\$0	\$0	\$1,380,000	\$0	\$	0 \$0
Northwest	Corona	Railroad	Buena Vista Condon	Main (at Grand)	\$0 \$0 \$0 \$0		J D anti Carrier and Carl Ci	0% 25%	0% 0 25% 0		0.73 0.85	\$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$1	60 \$0 50 \$0
Northwest Northwest	Corona Corona	River Serfas Club	Corydon SR-91	Main Green River	\$0 \$0		D Between Corydon and 2nd St D	25% 0%	25% U 0% 0		0.59	\$O	\$0 \$0	\$0 \$0	\$0 \$0	φυ Ω % .	\$\ \$	iu \$0 i0 \$0

				ting Need and Obligate			THE LOUIS ALLES THE	# FWINT NIFED O. I.		EVIOT VIO	FUTURE V.O. TUVE V.	10 011 1 DE 51/107 1 IESD	OBLICATED	INITIAL ENDA LIES LIGHT			- IIII II FUIT LIFE O	Updated: July 23, 2024
REA PLAN DIST orthwest	CITY Eastvale	STREETNAME Archibald	SEGMENTFROM Remington	SEGMENTTO River	**TOTAL COST MAXI	\$3,382,000	JMF MSHCP SHARE EXIST NEED LOS E&F SEGMENT DESCRIPTION \$0 Between Whispering Hills and Cadenza, and Providence and San Bemardina County	% EXIST NEED >2 LA 24%	ANE ADJST 24%	0.62	0.93	C SHARE EXIST NEED \$0	OBLIGATED \$0	UNFUND EXIST NEED MSHC \$0	9 MSH \$0	\$0 SO	*UNFUND EXIST NEED CC	OMBINED UNFUND EXIST NEED \$0
orthwest	Eastvale	Hamner	Mission	Bellegrave	\$0	\$0	\$0 Between Ontario Ranch and Micro, and Riverside and Mission	44%	44%	0.86	1.30	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Eastvale Eastvale	Hamner Hamner	Bellegrave Amberhill	Amberhill Limonite	\$199,000 \$2,787,000	\$199,000 \$2,787,000	\$0 \$72,000	0% 0%	0% 0%	0.57 0.68	1.16 1.08	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$72,000	\$0 \$0	\$0 \$0	\$0 \$0
orthwest	Eastvale	Hamner	Limonite	Schleisman	\$991,000	\$991,000	\$0	0%	0%	0.38	0.63	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Eastvale	Hamner	Schleisman	Santa Ana River	\$5,533,000	\$3,675,000	\$76,000 Between Schleisman and Santa Ana River	100%	50%	1.24	1.41	33% \$1,858,000	\$0	\$1,858,000	\$144,000	\$48,000	\$48,000	\$1,906,000
	Eastvale Eastvale	Hellman Hellman	Schleisman Walters	Walters River	\$419,000 \$21,503,000	\$419,000 \$21,503,000	\$3,000 \$160,000	0% 0%	0% 0%	0.86 0.69	1.69 1.44	\$U \$0	\$U \$0	\$U \$0	\$3,000 \$160,000	\$0 \$0	\$0 \$0	\$U \$0:
	Eastvale	Hellman	Cucamonga Creek	bridge	\$3,828,000	\$3,828,000	\$132,000	0%	0%	0.69	1.44	\$0	\$0	\$0	\$132,000	\$0	\$0	\$0
	Eastvale	Limonite	I-15 I-15	Eastvale Gateway	\$289,000	\$289,000	\$0 Between I-15 and Eastvale Gateway	100%	100%	0.93	1.32	92% \$0	\$0	\$0	\$0	\$0	\$0	\$0
	Eastvale Eastvale	Limonite Limonite	Eastvale Gateway	interchange Hamner	\$255,000	\$255,000	\$0 Between Eastvale Gateway and Hamner	0% 100%	0% 100%	0.67 0.95	1.07 1.36	90% \$0	\$0 \$0	\$U \$0	\$0 \$0	\$O \$O	\$0 \$0	υ¢ Ω2:
orthwest	Eastvale	Limonite	Hamner	Sumner	\$1,094,000	\$1,094,000	\$28,000 Between Hamner and Scholar	50%	50%	0.80	1.16	\$0	\$0	\$0	\$28,000	\$0	\$0	\$0
	Eastvale Eastvale	Limonite Limonite	Sumner Harrison	Harrison Archibald	\$497,000 \$0	\$497,000	\$0 \$0	0% 0%	0% 0%	0.77 0.55	0.97 0.70	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$c
	Eastvale	Limonite	Archibald	Hellman (Keller SBD Co.)	\$2,208,000	\$2,208,000	\$57,000	0%	0%	0.00	0.35	\$0	\$0	\$0 \$0	\$57,000	\$0 \$0	\$0 \$0	\$C
orthwest	Eastvale	Limonite	Cucamonga Creek	bridge	\$13,920,000	\$0	\$0	0%	0%	0.64	0.75	\$0	\$13,920,000	\$0	\$480,000	\$0	\$0	\$0
	Eastvale Jurupa Valley	River	Hellman San Bernardino County	Archibald Vallev	\$5,948,000 \$6,192,000	\$5,948,000 \$6,192,000	\$44,000 \$176,000 Between Sierra and Valley	0% 33%	0% 33%	0.67 0.83	1.01 1.14	\$0 \$0	\$0 \$0	\$0 \$0	\$44,000 \$176,000	\$0 \$0	\$0 \$0	\$0 \$c
	Jurupa Valley		Cantu-Galleano Ranch	Van Buren	\$464,000	\$464,000	\$12,000	0%	0%	0.43	0.78	\$0	\$0	\$0	\$12,000	\$O	\$0	\$0
orthwest	Jurupa Valley	Cantu-Galleano Ranch	Wineville	Bellegrave	\$793,000	\$793,000	\$21,000	0%	0%	0.14	0.27	\$0	\$0	\$0	\$21,000	\$0	\$0	\$0
orthwest orthwest	Jurupa Valley Jurupa Valley		Philadelphia SR-60	SR-60 Limonite	\$1,515,000 \$0	\$989,000 \$0	\$25,000 Between San Bemardino County and SR-60 \$0 Between SR-60 and Riverside, and Cantu Gaileano Ranch and Caral	100% 12%	100% 12%	1.11 0.61	1.49 0.84	65% \$526,000 \$0	\$0 \$0	\$526,000 \$0	\$39,000	\$14,000 \$0	\$14,000 \$0	\$540,000 \$0
orthwest	Jurupa Valley		I-15	Wineville	\$0	\$0	\$0 Between I-15 and I-15 NB On Ramp	15%	15%	0.82	0.90	\$0	\$0	\$0	\$0	\$O	\$0	\$0
	Jurupa Valley		Wineville	Etiwanda	\$0	\$0	\$0 Between Etiwanda and Lorena	9%	9%	0.76	0.80	\$0	\$0	\$0	\$0	\$0	\$0	\$0
orthwest orthwest	Jurupa Valley Jurupa Valley		Etiwanda Van Buren	Van Buren Clav	\$2,981,000	\$2,981,000	\$77,000 Between Bain and Beach	23% 0%	23% 0%	0.80 0.67	0.91 0.84	\$0 \$0	\$0 \$0	\$0 \$0	\$77,000 \$0	\$0 \$0	\$0 \$0	\$0 \$c
	Jurupa Valley		Clay	Riverview	\$0 \$0	\$0 \$0	\$0 \$0	0%	0%	0.64	0.79	\$0	\$0	\$0 \$0	\$0	\$0 \$0	\$0 \$0	\$C
orthwest	Jurupa Valley	Market	Rubidoux	Santa Ana River	\$5,181,000	\$0	\$0 Between Rubidoux and Aqua Mansa, and Via Cerro and Santa Ana River	40%	40%	0.86	1.06	\$0	\$5,181,000	\$0	\$135,000	\$0	\$0	\$0
	Jurupa Valley		Santa Ana River	bridge	\$13,920,000	\$6,204,000	\$214,000	0%	0%	1.13	1.32	45% \$7,716,000		\$7,716,000	\$480,000	\$0 \$0	\$0	\$7,716,000
	Jurupa Valley Jurupa Valley		Milliken SR-60	SR-60 Santa Ana River	\$0	\$0 \$0	\$0 Between Milliken and Wineville, and SR-60 to SR-60 EB Off Ramp \$0 Between Junupa and Canal, Riverview and Rubidoux, and Crestmore and Santa Ana River	58% 13%	58% 13%	0.90 0.57	1.06 0.78	\$U .\$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0	⊅∪ \$∩	\$0
orthwest	Jurupa Valley	Riverview	Limonite	Mission	\$0	\$0	\$0	0%	0%	0.55	0.56	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Jurupa Valley		Pine	Mission	\$0	\$0	\$0 Between SR-60 WB and 30th, and 24th and Market	9%	9%	0.86	1.11	\$0	\$0	\$0	\$0	\$0	\$0	\$0 *00 / 47 000
	Jurupa Valley Jurupa Valley		SR-60 Armstrong	interchange Mission	\$32,698,000 \$0	\$9,051,000 \$0	\$0 \$0 Between Armstrong and Mission	0% 100%	0% 100%	1.61 1.22	1.88 1.47	28% \$23,647,000 44% \$0	\$0 \$0	\$23,647,000 \$0	\$U \$0	\$U \$0	\$U .\$0	\$23,647,000 \$0
orthwest	Norco	lst	Parkridge	Mountain	\$0	\$0	\$0	0%	0%	0.75	0.89	\$0	\$0	\$0	\$0	\$0	\$0	\$0
orthwest	Norco	1st	Mountain	Hamner	\$0	\$0	\$0	0%	0%	0.38	0.51	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Norco Norco	2nd 6th	River Hamner	I-15 California	\$0 \$0	\$0 \$0	\$0 Between Hammer and I-15 SB On Ramp \$0 Between Hammer and I-15 NB On Ramp	7% 9%	7% 9%	0.74 0.68	0.85 0.76	\$0 \$n	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 &r
	Norco	6th	I-15	interchange	\$32,698,000	\$3,489,000	\$0	0%	0%	2.57	2.77	11% \$29,209,000	\$0	\$29,209,000	\$0	\$0	\$0	\$29,209,000
	Norco	Arlington	Crestview	Fairhaven	\$4,342,000	\$4,342,000	\$113,000 Between Crestview and Fairhaven	100%	100%	0.79	0.94	\$0	\$0	\$0	\$113,000	\$0	\$0	\$0
	Norco Norco	California Corydon	Arlington River	6th 5th	\$15,237,000 \$0	\$12,525,000 \$0	\$93,000 Between Arlington and 7th, and Green Tree ans 6th \$0	78% 0%	78% 0%	0.96 0.52	1.14 0.78	77% \$2,712,000 \$0	\$0 \$0	\$2,712,000 \$0	\$113,000 \$0	\$20,000 \$0	\$20,000 \$0	\$2,732,000 \$0
	Norco	Hamner	Santa Ana River	bridge	\$33,408,000	\$11,455,000	\$395,000	0%	0%	1.41	1.67	34% \$21,953,000	\$21,621,000	\$332,000	\$1,152,000	\$0	\$0	\$332,000
	Norco	Hamner	Santa Ana River	Hidden Valley	\$49,591,000	\$49,591,000	\$368,000 Between Detroit and Santa Ana River	6%	6%	0.65	0.80	\$0	\$0	\$0	\$368,000	\$0	\$0	\$0
	Norco Norco	Hidden Valley Hidden Valley	I-15 Hamner	Norco Hills I-15	\$0 \$0	\$0 \$0	\$0 Between i-15 to i-15 NB On Ramp \$0 Between Hamner and i-15	3% 100%	3% 100%	0.55 1.14	0.70 1.23	\$0 27% \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
	Norco	Norco	Corydon	Hamner	\$0	\$0	\$0	0%	0%	0.33	0.48	\$0	\$0	\$0	\$0	\$O	\$0	\$0
	Norco	North	California	Crestview	\$0	\$0	\$0 Between California and Crestview	100%	100%	0.96	1.19	80% \$0	\$0	\$0	\$0	\$0	\$0	\$0
	Norco Riverside	River 14th	Archibald Market	Corydon Martin Luther King	\$1,743,000	\$1,109,000	\$8,000 Between Archibald and Sundance	79% 0%	79% 0%	1.20 0.66	1.56 0.76	54% \$634,000	\$0 \$0	\$634,000 \$0	\$13,000	\$5,000	\$5,000	\$639,000
	Riverside	lst	Market	Main	\$0 \$0	\$0 \$0	\$0 \$0	0%	0%	0.24	0.50	\$0	\$0	\$0 \$0	\$0	\$0 \$0	\$0 \$0	\$0 \$0
	Riverside	3rd	SR-91	I-215	\$1,941,000	\$1,941,000	\$14,000	0%	0%	0.49	0.59	\$0	\$0	\$0	\$14,000	\$0	\$0	\$0
	Riverside	3rd	BNSF	railroad crossing SR-91	\$105,560,000	\$30,560,000	\$1,054,000	0% 0%	0%	0.77	0.90	\$0	\$75,000,000	\$0	\$3,640,000	\$0 \$0	\$0	\$0
	Riverside Riverside	Adams Adams	Arlington SR-91	Lincoln	\$0	\$0 \$0	\$0 \$0	0%	0% 0%	0.49 0.44	0.48 0.64	\$0	\$0	\$0 \$0	\$0	\$0 \$0	\$0 \$0	\$0 \$0
	Riverside	Adams	SR-91	interchange	\$32,698,000	\$3,262,000	\$0	0%	0%	1.46	1.52	10% \$29,436,000		\$28,501,000	\$0	\$0	\$0	\$28,501,000
	Riverside	Arlington	Fairhaven	La Sierra	\$0 \$0	\$0 \$0	\$0 #0	0% 0%	0% 0%	0.68 0.83	0.77 1.17	\$0	\$0 \$0	\$0	\$0	\$0 \$0	\$0	\$0 \$C
	Riverside Riverside	Buena Vista Canyon Crest	Santa Ana River Martin Luther King	Redwood Central	\$0 \$0	\$0 \$0	\$0 Between Martin Luther King and El Cerrito	71%	71%	1.02	1.16	55% \$0	\$0	\$0 \$0	\$0	\$0 \$0	\$0 \$0	\$C
	Riverside	Canyon Crest	Central	Country Club	\$0	\$0	\$O	0%	0%	0.70	0.77	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Riverside	Canyon Crest	Country Club	Via Vista	\$4,996,000	\$1,593,000	\$45,000 Between Country Club and Via Vista	100%	100%	1.30	1.48	32% \$3,403,000	\$0	\$3,403,000	\$142,000	\$97,000	\$97,000	\$3,500,000
	Riverside Riverside	Canyon Crest Central	Via Vista Chicago	Alessandro I-215/SR-60	\$0 \$0	\$0 \$0	\$0 Between Chicogo and Chopala, and Canyon Crest and Quail Run	0% 32%	0% 32%	0.59 0.80	0.72 0.96	ΦU Ω2.	\$0 \$0	\$U \$0	\$0 \$0	\$O \$O	\$0 \$0	υ¢ Ω2:
	Riverside	Central	SR-91	Magnolia	\$0	\$0	\$0 Between SR-91 and SR-91 SB On Ramp	6%	6%	0.64	0.71	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Riverside	Central	Alessandro	SR-91	\$0	\$0	\$0 Between SR-91 and SR-91 NB On Ramp, and Nottingham and 420 ft West	5%	5%	0.75	0.87	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Riverside Riverside	Central Chicago	Van Buren Alessandro	Magnolia Spruce	\$0 \$0	\$0 \$0	\$U \$0 Between Martin Luther King and Ransom	0% 43%	0% 43%	0.43 0.85	0.53 0.99	\$U \$0	\$0 \$0	\$U \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
	Riverside	Chicago	Spruce	Columbia	\$0	\$0	\$0	0%	0%	0.72	0.85	\$0	\$0	\$0	\$0	\$0	\$0	\$0
orthwest	Riverside	Columbia	Main	Iowa	\$0	\$0	\$0	0%	0%	0.62	0.71	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Riverside Riverside	Columbia Iowa	I-215 Center	interchange 3rd	\$32,698,000 \$30,272,000	\$9,050,000 \$30,272,000	\$U \$225,000 Between Palmyrita and Columbia	0% 11%	0% 11%	2.96 0.82	3.74 0.93	28% \$23,648,000 \$0	\$0 \$0	\$23,648,000 \$0	\$225,000	\$0 \$0	\$0 \$0	\$23,648,000 \$0
	Riverside	lowa	3rd	University	\$0	\$0	\$0	0%	0%	0.65	0.73	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Riverside	lowa	University	Martin Luther King	\$0	\$0	\$0	0%	0%	0.24	0.36	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Riverside Riverside	JFK La Sierra	Trautwein Arlington	Wood SR-91	\$1,880,000 \$0	\$1,880,000 \$0	\$49,000 \$0	0% 0%	0% 0%	0.54 0.43	0.68 0.51	\$0 \$n	\$0 \$0	\$U \$0	\$49,000 \$0	\$U \$0	\$U \$0	\$0 &r
	Riverside	La Sierra	SR-91	Indiana	\$192,000	\$192,000	\$O	0%	0%	0.77	0.85	\$0	\$0	\$0	\$0	\$0	\$0	\$0
orthwest	Riverside	La Sierra	Indiana	Victoria	\$778,000	\$778,000	\$0	0%	0%	0.71	0.80	\$0		\$0	\$0	\$0	\$0	\$0
	Riverside Riverside	Lemon (NB One way) Lincoln	Mission Inn Van Buren	University Jefferson	\$0 \$0	\$0 \$0	\$0 \$0	0% 0%	0% 0%	0.11 0.23	0.15 0.48	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
	Riverside	Lincoln	Jefferson	Washington	\$0 \$0	\$0 \$0	\$0 \$0	0%	0%	0.23	0.49	\$0	\$0 \$0	\$0	\$O	\$0	\$0 \$0	\$0 \$0
orthwest	Riverside	Lincoln	Washington	Victoria	\$0	\$0	\$0	0%	0%	0.39	0.56	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Riverside Riverside	Madison Madison	SR-91 BNSF	Victoria railroad crossing	\$853,000 \$20,010,000	\$853,000 \$20,010,000	\$0 \$690,000	0% 0%	0% 0%	0.65 0.81	0.66 0.80	\$0	\$0 \$0	\$0 \$0	\$0 \$690,000	\$0 \$0	\$0 \$0	\$0 \$0
	Riverside Riverside	Magnolia	BNSF Railroad	Tyler	\$20,010,000	\$20,010,000	\$0 Between Buchanan and SR-91 EB On Ramp, and SR-91 to La Sierra	53%	53%	0.81	0.96	\$0 \$0	\$0 \$0	\$0 \$0	\$690,000 \$0	\$0 \$0	\$0 \$0	\$0 \$0
	Riverside	Magnolia	BNSF	railroad crossing	\$0	\$0	\$0	0%	0%	0.90	1.04	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Riverside	Magnolia	Tyler	Harrison 14th	\$0	\$0	\$0 \$0	0%	0%	0.52	0.66	\$0	\$0	\$0	\$0 \$0	\$0	\$0	\$0
	Riverside Riverside	Magnolia Main	Harrison 1st	San Bernardino County	\$0	\$0 \$0	\$0 Between Columbia and San Bernardino County, and SR-60 WB On Ramp to SR-60 EB On Ramp	0% 43%	0% 43%	0.62 0.76	0.79 0.94	\$U.	D#.	\$0 \$0	\$0 \$0	\$0	\$0 \$0	\$0
orthwest	Riverside	Market	14th	Santa Ana River	\$9,491,000	\$9,491,000	\$70,000 Between Rivera and Santa Ana River	21%	21%	0.72	0.92	\$0	\$0	\$0	\$70,000	\$0	\$0	\$0
	Riverside	Martin Luther King	14th	I-215/SR-60	\$24,031,000	\$24,031,000	\$178,000 Between Victoria and Sedgwick, and Iowa and I-215 SB On Ramp	41%	41%	0.78	0.87	\$0	\$0	\$0	\$178,000	\$0	\$0	\$0
	Riverside Riverside	Mission Inn Redwood (SB One way)	Redwood Mission Inn	Lemon University	\$0 \$0	\$0 \$0	\$0 \$0	0% 0%	0% 0%	0.26 0.59	0.47 0.74	\$0 \$n	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
	Riverside	Trautwein	Alessandro	Van Buren	\$0 \$0	\$0 \$0	\$0 Between Mission Grave and Orange Terrace	43%	43%	0.88	1.04	\$0 \$0	\$0	\$0	\$0	\$0	\$0	\$0
	Riverside	Tyler	SR-91	Magnolia	\$0	\$0	\$0 #0	0%	0%	0.31	0.37	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Riverside Riverside	Tyler Tyler	SR-91 Magnolia	interchange Hole	\$63,061,000 \$0	\$21,814,000 \$0	\$0 \$0	0% 0%	0% 0%	1.56 0.30	1.90 0.30	35% \$41,247,000 \$0	\$0 \$0		\$0 \$0	\$0 \$0	\$0 \$0	\$41,247,000 \$0
	Riverside Riverside	Tyler	Magnolia Hole	Wells	\$0 \$0	\$0 \$0	\$0 \$0	0%	0%	0.30	0.30	\$0 \$0			\$0 \$0	\$0 \$0	\$0 \$0	\$(\$(
rthwest	Riverside	Tyler	Wells	Arlington	\$0	\$0	\$0	0%	0%	0.59	0.62	\$0	\$0	\$0	\$0	\$0	\$0	\$0
rthwest	Riverside	University	Redwood	SR-91	\$859,000	\$859,000	\$0	0%	0%	0.60	0.71	\$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0	\$0 \$0	\$0
	Riverside	University Victoria	SR-91 Lincoln	I-215/SR-60 Arlington	\$2,067,000 \$0	\$2,067,000 \$0	\$0 Between SR-60 and SR-60 SB On Ramp \$0	2% 0%	2% 0%	0.52 0.86	0.65 1.11	\$0 \$n	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
orthwest					Ψ	40	#- #O	0%	0%	0.36		φ0	\$0	\$0	\$0	\$0	¢0	\$0
orthwest orthwest	Riverside Riverside	Victoria	Madison	Washington	\$0	\$0	\$ 0				0.55	D O		ΨU	ΨΟ	ΨΟ	ФО	φυ
orthwest orthwest orthwest orthwest	Riverside Riverside Riverside	Victoria Washington	Victoria	Hermosa	\$0 \$27,018,000	\$0 \$27,018,000	\$201,000 Between Dufferin and Overlook, and Braciley and Hermosa	34%	34%	0.83	0.94	\$0 \$0	\$0	\$0 \$0	\$201,000	\$0	\$0 \$0	\$0 \$0
orthwest orthwest orthwest orthwest	Riverside Riverside	Victoria			\$0 \$27,018,000 \$3,053,000 \$0	\$0 \$27,018,000 \$3,053,000 \$0	\$201,000 Between Dufferin and Overlook, and Bradey and Hermosa \$79,000					\$0 \$0 \$0	\$0 \$0		\$201,000 \$79,000 \$0	\$0 \$0 \$0	\$0 \$0 \$0	

AREA PLAN D		SEGMENTFROM			YAAA IQAH2 BAAHT AAHAAIYAA	TUMF MSHCP SHARE EXIST NEED LOS E&F SEGMENT DESCRIPTION	% EXIST NEED >2 L4	NE ADJST EXIST V/	C FUTURE V/C T	UMF V/C SHARE EXIST NEED	OBLIGATED II	NEIND EXIST NEED WORL	P MSHCP	EXIST NEED MSHCP UNFUND EXIST NE	Updated: July 23, 2024
Northwest	Unincorporatec Cantu-Galleano Ranch	Hamner	Wineville	\$0	SO	\$0	% EXIST NEED >2 LA	0% 0.47	0.95	SO	\$0	\$0	\$0	\$0	\$0 \$0
Northwest	Unincorporatec Dos Lagos (Weirick)	Temescal Canyon	I-15	\$0	\$0	\$0 Between I-15 and I-15 NB On Ramp	22%	22% 0.52	0.72	\$0	\$0	\$0	\$0	\$0	\$0 \$0
Northwest	Unincorporatec El Cerrito	I-15	Ontario	\$0	\$0	\$0	0%	0% 0.15	0.26	\$0	\$0	\$0	\$0	\$0	\$0 \$0
Northwest Northwest	Unincorporatec El Sobrante Unincorporatec Harley John	Mockingbird Canyon Washington	Cajalco Scottsdale	\$0	\$0 \$0	\$0 \$0	0%	0% 0.62 0% 0.38	0.78 0.65	\$0	\$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
Northwest	Unincorporatec Harley John	Scottsdale	Caialco	\$0 \$0	\$0	\$0	0%	0% 0.38	0.73	\$0	\$0	\$0 \$0	\$O	\$0	\$0 \$0
Northwest	Unincorporatec La Sierra	Victoria	El Sobrante	\$0	\$0	\$0 Between Victoria and Orchard View	40%	40% 0.85	1.03	\$0	\$0	\$0	\$0	\$0	\$0 \$0
Northwest	Unincorporatec La Sierra	El Sobrante	Cajalco	\$0	\$0	\$0	0%	0% 0.50	0.83	\$0	\$0	\$0	\$0	\$0	\$0 \$0
Northwest	Unincorporatec Mockingbird Canyon	Van Buren	El Sobrante	\$20,871,000	\$20,871,000	\$593,000 Between Van Buren and Lindina	31%	31% 0.76	0.97	\$0	\$0	\$0	\$593,000	\$0	\$0 \$0
Northwest Northwest	Unincorporatec Temescal Canyon Unincorporatec Temescal Canyon	El Cerrito Tuscany	Tuscany Dos Lagos	\$3,168,000	\$0 \$0	\$U \$0	0% 0%	0% 0.68 0% 0.72	1.07 1.08	\$0 \$0	\$3,168,000	\$0 \$0	\$90,000 \$0	\$0 \$0	\$0 \$0
Northwest	Unincorporated Temescal Canyon	Dos Lagos	Lerov	\$0	\$0	\$O	0%	0% 0.48	0.74	φο \$0	\$O \$O	\$O	\$0	\$O	\$0 \$0
Northwest	Unincorporatec Temescal Canyon	Leroy	Dawson Canyon	\$0	\$0	\$0	0%	0% 0.46	0.71	\$0	\$0	\$0	\$0	\$0	\$0 \$0
Northwest	Unincorporatec Temescal Canyon	Dawson Canyon	I-15	\$0	\$0	\$0 Between I-15 NB On Ramp and 1000 ff North	43%	43% 0.66	1.01	\$0	\$0	\$0	\$0	\$0	\$0 \$0
Northwest	Unincorporatec Temescal Canyon	I-15	interchange	\$32,698,000	\$32,698,000	\$0	0%	0% 0.85	1.35	\$0	\$0	\$0	\$0	\$0	\$0 \$0
Northwest Northwest	Unincorporatec Temescal Canyon Unincorporatec Temescal Canyon	I-15 Park Canyon	Park Canyon Indian Truck Trail	\$14,329,000	\$14,329,000 \$0	\$427,000 Between I-15 SB On Ramp and Squaw Mountain	27% 0%	27% 0.69 0% 0.02	1.02 0.12	\$0	\$0	\$0 \$0	\$427,000 \$0	\$0 \$0	\$0 \$0
Northwest	Unincorporated Washington	Hermosa	Harley John	\$12,787.000	\$12,787,000	\$332,000	0%	0% 0.02	0.12	φο \$0	\$O \$O	\$O	\$332.000	\$O	\$0 \$0
Northwest	Unincorporated Wood	Krameria	Cajalco	\$12,537,000	\$12,537,000	\$325,000 Between Krameria and Maripoza	17%	17% 0.56	0.83	\$0	\$0	\$0	\$325,000	\$0	\$0 \$0
Pass	Banning 8th	Wilson	I-10	\$0	\$0	\$0	0%	0% 0.25	0.37	\$0	\$0	\$0	\$0	\$0	\$0 \$0
Pass	Banning Lincoln	Sunset	SR-243	\$0	\$0	\$0	0%	0% 0.14	0.16	\$0	\$0	\$0	\$0	\$0	\$0 \$0
Pass Pass	Banning Ramsey Bannina Ramsey	I-10 8th	8th Highland Springs	\$0	\$0	\$0 \$0	0% 0%	0% 0.10 0% 0.24	0.13 0.33	\$0	\$0	\$0	\$0 \$0	\$0	\$0 \$0
Pass	Bannina SR-243	I-10	Wesley	\$0	\$0 \$0	\$U \$n	0%	0% 0.24	0.46	φυ \$0	φυ \$0	\$O	\$O	\$O	\$0 \$0
Pass	Banning Sun Lakes	Highland Home	Sunset	\$30,502,000	\$30,502,000	\$226,000	0%	0% 0.10	0.11	\$0	\$0	\$0	\$226,000	\$0	\$0 \$0
Pass	Banning Sun Lakes	Smith Creek	bridge	\$8,352,000	\$8,352,000	\$288,000	0%	0% 0.10	0.11	\$0	\$0	\$0	\$288,000	\$0	\$0 \$0
Pass	Banning Sun Lakes	Montgomery Creek	bridge	\$5,568,000	\$5,568,000	\$192,000	0%	0% 0.10	0.11	\$0	\$0	\$0	\$192,000	\$0	\$0 \$0
Pass	Banning Sun Lakes	Highland Springs	Highland Home	\$0	\$0 \$0	\$0 *0	0%	0% 0.04	0.05	\$0	\$0	\$0	\$0 \$0	\$0	\$0
Pass Pass	Banning Sunset Bannina Sunset	Ramsey I-10	Lincoln interchange	\$0 \$32,698,000	\$0 \$32.698.000	⊅∪ \$∩	U% 0%	0% 0.13 0% 0.53	0.23	\$0 \$0	\$U \$0	\$U \$0	\$U \$0	\$O	\$0 \$0
Pass	Banning Wilson	Highland Home	8th	\$0	\$32,878,000	\$0	0%	0% 0.06	0.12	\$0	\$0	\$0	\$0	\$0	\$0 \$0
Pass	Banning Wilson	Highland Springs	Highland Home	\$0	\$0	\$0	0%	0% 0.14	0.24	\$0	\$0	\$0	\$0	\$0	\$0 \$0
Pass	Beaumont 1st	Viele	Pennsylvania	\$0	\$0	\$0	0%	0% 0.48	0.57	\$0	\$0	\$0	\$0	\$0	\$0 \$0
Pass	Beaumont 1st Beaumont 6th	Pennsylvania I-10	Highland Springs	\$0	\$0	\$0 *0	0%	0% 0.51	0.71	\$0	\$0	\$0	\$0	\$0	\$0 \$0
Pass Pass	Beaumont 6th Beaumont Desert Lawn	1-10 Champions	Highland Springs Oak Valley (STC)	\$0 \$0	\$0 \$0	\$U \$0	0%	0% 0.23 0% 0.45	0.47 0.80	\$U \$0	\$U \$0	\$U \$0	\$0 \$0	\$0 \$0	\$0 \$0
Pass	Beaumont Oak Valley (14th)	Highland Springs	Pennsylvania	\$0	\$0	\$0 \$0	0%	0% 0.45	0.11	\$0	\$O	\$0 \$0	\$O	\$0	\$0 \$0
Pass	Beaumont Oak Valley (14th)	Pennsylvania	Oak View	\$0	\$0	\$0	0%	0% 0.14	0.26	\$0	\$0	\$0	\$0	\$0	\$0 \$0
Pass	Beaumont Oak Valley (14th)	Oak View	I-10	\$0	\$0	\$0	0%	0% 0.69	1.04	\$0	\$0	\$0	\$0	\$0	\$0 \$0
Pass	Beaumont Oak Valley (14th)	I-10	interchange	\$63,061,000	\$62,401,000	\$0	0%	0% 0.90	1.14	99% \$660,000	\$0	\$660,000	\$0	\$0	\$0 \$660,000
Pass Pass	Beaumont Oak Valley (STC) Beaumont Oak Valley (STC)	UP Railroad Tukwet Canvon	Tukwet Canyon I-10	\$0 \$0	\$0 \$0	\$U \$0	0%	0% 0.01 0% 0.09	0.23 0.38	\$0	\$0	\$0 \$0	\$0	\$0 \$0	\$0 \$0
Pass	Beaumont Pennsylvania	6th	1st	\$6,588,000	\$6,588,000	\$49,000	0%	0% 0.52	0.74	\$0	\$O	\$0 \$0	\$49,000	\$0	\$0 \$0
Pass	Beaumont Pennsylvania	I-10	interchange	\$0	\$0	\$0	0%	0% 0.51	0.63	\$0	\$0	\$0	\$0	\$0	\$0 \$0
Pass	Calimesa Bryant	County Line	Avenue L	\$0	\$0	\$0	0%	0% 0.38	0.61	\$0	\$0	\$0	\$0	\$0	\$0 \$0
Pass	Calimesa Calimesa	County Line	I-10	\$0	\$0	\$0 *0	0%	0% 0.13	0.38	\$0	\$0	\$0	\$0	\$0	\$0 \$0
Pass Pass	Calimesa Calimesa Calimesa County Line	I-10 7th	interchange Bryant	\$63,061,000	\$63,061,000 \$0	\$0 Between I-10 WB On Ramp and Calimesa, and Park and 5th	0% 13%	0% 0.54 13% 0.54	1.59 0.71	\$0	\$U \$0	\$U \$0	\$O \$U	\$0	\$0 \$0
Pass	Calimesa County Line	I-10	interchange	\$32,698,000	\$32,698,000	\$0 serween in to wis on kamp and calimesa, and rank and sin	0%	0% 0.88	1.26	\$0 \$0	\$0	\$O	\$0	\$O	\$0 \$0
Pass	Calimesa Desert Lawn	Palmer	Champions	\$0	\$0	\$0	0%	0% 0.04	0.44	\$0	\$0	\$0	\$0	\$0	\$0 \$0
Pass	Calimesa Singleton	Avenue L	Condit	\$0	\$0	\$0	0%	0% 0.43	0.64	\$0	\$0	\$0	\$0	\$0	\$0 \$0
Pass	Calimesa Singleton	Condit I-10	Roberts	\$12,972,000	\$12,972,000 \$0	\$96,000	0% 0%	0% 0.74	1.14	\$0	\$0 \$0	\$0	\$96,000	\$0	\$0 \$0
Pass Pass	Calimesa Singleton Calimesa Tukwet Canyon	Roberts Rd	interchange Palmer	\$63,061,000	\$0 \$0	\$O	0%	0% 1.04 0% 0.71	0.99	0% \$63,061,000	\$U \$0	\$63,061,000	\$O \$U	\$0	\$0 \$63,061,000 \$0 \$0
Pass	Unincorporated Live Oak Canyon	Oak Valley (STC)	San Bernardino County	\$0 \$0	\$0	\$0	0%	0% 0.36	0.47	\$0	\$0	\$0 \$0	\$O	\$0	\$0 \$0
Pass	Unincorporatec San Timoteo Canyon	San Bernardino County	UP Railroad	\$0	\$0	\$0 Between San Bernardino County and Redlands	22%	22% 0.31	0.66	\$0	\$0	\$0	\$0	\$0	\$0 \$0
Pass	Unincorporatec San Timoteo Canyon	UP Railroad	railroad crossing	\$52,780,000	\$52,780,000	\$1,820,000	0%	0% 0.08	0.48	\$0	\$0	\$0	\$1,820,000	\$0	\$0 \$0
San Jacinto	Hemet Sanderson Hemet Sanderson	Acacia Domeniaoni	Menlo Stetson	\$0	\$0 \$0	\$0 \$0 Retween Stetson and Thornton	0%	0% 0.74 26% 0.79	0.92 1.11	\$0	\$0	\$0 #0	\$0	\$0	\$0 \$0
San Jacinto	Hemet Sanderson	RR Crossing	Acacia	\$0	\$0 \$0	\$0 Between Stetson and Thornton	26% 0%	0% 0.82	0.97	φυ \$0	φυ \$0	\$O	\$O	\$O	\$0 \$0
San Jacinto	Hemet Sanderson	Stetson	RR Crossing	\$0	\$0	\$ 0	0%	0% 0.77	1.11	\$0	\$0	\$0	\$0	\$0	\$0 \$0
San Jacinto	Hemet Sanderson	Menlo	Esplanade	\$0	\$0	\$0	0%	0% 0.72	0.95	\$0	\$0	\$0	\$0	\$0	\$0 \$0
San Jacinto	Hemet SR-74 (Florida)	Warren	Cawston	\$0	\$0	\$0 \$0	0%	0% 0.62	0.96	\$0	\$0	\$0	\$0	\$0	\$0 \$0
San Jacinto	Hemet SR-74 (Florida) Hemet SR-74/SR-79 (Florida)	Columbia Cawston	Ramona Columbia	\$U \$n	ֆU ¢ ∩	\$0	0%	0% 0.47 0% 0.38	0.57 0.63	\$0 \$0	\$U \$n	\$O	\$O	\$∩ \$	\$0 \$0
San Jacinto	Hemet State	Domenigoni	Chambers	,\$O	\$0 \$0	\$0	0%	0% 0.36	0.92	\$O	\$0 \$0	\$0	\$0	\$0	\$0 \$0
San Jacinto	Hemet State	Chambers	Stetson	\$0	\$0	\$0	0%	0% 0.51	0.93	\$0	\$0	\$0	\$0	\$0	\$0 \$0
San Jacinto	Hemet State	Florida	Esplanade	\$0	\$0	\$0	0%	0% 0.33	0.53	\$0	\$0	\$0	\$0	\$0	\$0 \$0
San Jacinto	Hemet State	Stetson	Florida	\$0	\$0	\$0	0%	0% 0.57	0.80	\$0	\$0	\$0	\$0	\$0	\$0 \$0
San Jacinto	Hemet Stetson	Cawston Warren	State Cawston	\$0 \$4,357,000	\$0 \$4,357,000	\$0 \$113,000	0% 0%	0% 0.49 0% 0.59	0.68	\$0	\$0 \$0	\$0 \$0	\$0 \$113.000	\$U \$0	\$0 \$0
San Jacinto	Hemet Warren	Esplanade	Domenigoni	\$19,926,000	\$19,926,000	\$173,000 \$517,000 Between Devonshire and Stetson	31%	31% 0.79	1.10	\$0 \$0	\$0	\$0	\$517,000	\$0	\$0 \$0
San Jacinto	Hemet Warren	Salt Creek	bridge	\$4,176,000	\$4,176,000	\$144,000	0%	0% 0.64	1.05	\$0	\$0	\$0	\$144,000	\$O	\$0 \$0
San Jacinto	San Jacinto Esplanade	Mountain	State	\$0	\$0	\$0	0%	0% 0.33	0.39	\$0	\$0	\$0	\$0	\$0	\$0 \$0
San Jacinto San Jacinto	San Jacinto Esplanade San Jacinto Sanderson	State Ramona	Warren Esplanade	\$0	\$0	\$U \$0	0%	0% 0.37 0% 0.53	0.55 0.84	\$0	\$0	\$0	\$0	\$U \$0	\$0 \$0
San Jacinto	San Jacinto Sanderson San Jacinto SR-79 (North Ramona)	State	San Jacinto	\$U \$0	\$U \$O	Φ∪ \$0	0%	0% 0.53 0% 0.55	0.84	\$U \$n	ΦΩ Ω\$	\$0 \$0	ֆ∪ \$∩	\$0	\$0 \$0
San Jacinto	San Jacinto SR-79 (San Jacinto)	North Ramona Blvd	7th	\$0	\$0	\$0	0%	0% 0.70	0.80	\$0	\$0	\$0	\$0	\$0	\$0 \$0
San Jacinto	San Jacinto SR-79 (San Jacinto)	7th	SR-74	\$0	\$0	\$0	0%	0% 0.32	0.46	\$0	\$0	\$0	\$0	\$0	\$0 \$0
San Jacinto	San Jacinto State	Ramona	Esplanade	\$0	\$0	\$0	0%	0% 0.60	0.78	\$0	\$0	\$0	\$0	\$0	\$0 \$0
San Jacinto	San Jacinto State	Gilman Springs	Quandt Ranch	\$3,317,000	\$3,317,000 \$0	\$86,000 \$0	0%	0% 0.82	1.01 1.03	\$0	\$0	\$0	\$86,000	\$0 \$0	\$0 \$0
	San Jacinto State	San Jacinto River Quandt Ranch	bridge Ramona	\$U \$0	\$0 \$0	Φ∪ \$0	0%	0% 0.86 0% 0.39	0.46	\$U \$0	ΦU Ω\$	\$0 \$0	\$0 \$0	\$0	\$0 \$0
San Jacinto	San Jacinto Warren	Ramona	Esplanade	\$13,469,000	\$13,469,000	\$350,000	0%	0% 0.67	0.89	\$0	\$0	\$0	\$350,000	\$0	\$0 \$0
San Jacinto	Unincorporatec Gilman Springs	Sanderson	State	\$11,097,000	\$11,097,000	\$288,000	0%	0% 0.83	1.07	\$0	\$0	\$0	\$288,000	\$0	\$0 \$0
	Unincorporated Gilman Springs	Massacre Canyon Wash	bridge	\$1,392,000	\$1,392,000	\$48,000	0%	0% 0.85	1.11	\$0	\$0	\$0	\$48,000	\$0	\$0 \$0
san Jacinto	Unincorporated SR-79 (Winchester)	SR-74 (Florida)	Domenigoni	\$0	\$0	\$0	0%	0% 0.66	1.05	\$0	\$0	\$ U	\$0	ΨU	\$ 0 \$0

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ARFA PLAN D		STREETNAME	SEGMENTFROM	SEGMENTTO		IMUM TUME SHARE MAX	TUMF MSHCP SHARE EXIST NEED LOS E&F SEGMENT DESCRIPTION	% EXIST NEED >2 LANE ADJST EXIST V/C	FUTURE V/C	TUME V/C SHARE EXIST NEED	OBLIGATED	UNFUND EXIST NEED MSHCP	HZM	CP FXIST NEED MSHCP I	JNEUND EXIST NEED CC	MBINED UNFUND EXIST NEED
Southwest	Lake Elsinore	Corydon	Mission	Grand	\$3,336,000	\$3,336,000	\$87,000	0% 0% 0.73	1.02	\$	0 \$1	0 \$0	\$87,000	\$0	\$0	\$0
Southwest	Lake Elsinore		Mission	I-15	\$0	\$0	\$0	0% 0% 0.73	0.93	\$	0 \$1	0 \$0	\$0	\$0	\$0	\$0
Southwest	Lake Elsinore			interchange	\$32,698,000	\$32,698,000	\$0	0% 0% 0.66	1.25	\$	0 \$1	0 \$0	\$0	\$0	\$0	\$0
Southwest Southwest	Lake Elsinore Lake Elsinore		Lincoln Toft	Toft SR-74 (Riverside)	\$0 \$3,512,000	\$0 \$3,512,000	\$U \$91,000	0% 0% 0.47 0% 0% 0.68	0.65 0.92	\$ \$	U \$1	0 \$0	\$0 \$91,000	\$0	\$0	\$0 \$0
Southwest	Lake Elsinore		I-15	Lincoln	\$39,817,000	\$32,726,000	\$335,000 Between Orange Grove and the I-15 SB On Ramp	76% 76% 0.99	1.28	77% \$7,091,00	O \$1	0 \$7,091,000	\$407,000	\$73,000	\$73,000	\$7,164,000
Southwest	Lake Elsinore		I-15	interchange	\$32,698,000	\$15,771,000	\$0	0% 0% 1.08	1.25	48% \$16,927,00	0 \$1	0 \$16,927,000	\$0	\$0	\$0	\$16,927,000
Southwest	Lake Elsinore		Temescal Wash	bridge	\$2,506,000	\$1,150,000	\$39,000	0% 0% 1.12	1.31	46% \$1,356,00	0 \$1	0 \$1,356,000	\$86,000	\$0	\$0	\$1,356,000
Southwest	Lake Elsinore		Railroad Canyon	Bundy Canyon	\$0 \$7,850,000	\$0 \$7,850,000	\$0	0% 0% 0.48	0.74	\$	0 \$1	0 \$0	\$0 \$204.000	\$0	\$0	\$0
Southwest Southwest	Lake Elsinore		I-15 Temescal Wash	Lake bridge	\$7,850,000 \$4,176,000	\$4,176,000	\$204,000 \$144,000	0% 0% 0.59 0% 0% 0.63	0.96 1.12		∪ ֆ ∩ \$	0 \$0	\$204,000	\$U \$O	\$0 \$0	\$0 \$0
Southwest	Lake Elsinore		I-15	interchange	\$63,061,000	\$63,061,000	\$0	0% 0% 0.63	1.12	\$	0 \$1	0 \$0	\$0	\$0	\$0	\$0
Southwest	Lake Elsinore	SR-74 (Collier/Riverside)	I-15	Lakeshore	\$24,303,000	\$24,303,000	\$180,000 Between Strickland and Collier	31% 31% 0.86	1.05	\$	0 \$1	0 \$0	\$180,000	\$0	\$0	\$0
Southwest	Lake Elsinore		Riverside	SR-74 (Ortega)	\$9,733,000	\$3,691,000	\$27,000 Between Riverside and Ortega	100% 100% 1.19	1.37	38% \$6,042,00	0 \$1		\$72,000	\$45,000	\$45,000	\$6,087,000
Southwest Southwest	Lake Elsinore Lake Elsinore		Lakeshore I-15	Grand Lake	\$20,175,000 \$7,411,000	\$20,175,000 \$7,411,000	\$150,000 Between Lakeshare and Raven \$211,000	31% 31% 0.78 0% 0% 0.64	0.91 1.17	\$	0 \$1	0 \$0	\$150,000 \$211,000	\$0 60	\$0 \$0	\$0
Southwest	Lake Elsinore		Temescal Wash	bridge	\$3,480,000	\$3,480,000	\$120,000	0% 0% 0.64 0% 0% 0.85	1.17	\$ \$	0 \$1	0 \$0	\$120,000	\$0 \$0	\$0 \$0	\$0 \$0
Southwest	Murrieta	California Oaks	Jefferson	I-15	\$0	\$0	\$0	0% 0% 0.47	0.61	\$	0 \$	0 \$0	\$0	\$0	\$0	\$0
Southwest	Murrieta	California Oaks	I-15	Jackson	\$0	\$0	\$0	0% 0% 0.76	0.89	\$	0 \$1	0 \$0	\$0	\$0	\$0	\$0
Southwest	Murrieta	California Oaks	Jackson	Clinton Keith	\$0	\$0	\$0	0% 0% 0.65	0.77	\$	0 \$1	0 \$0	\$0	\$0	\$0	\$0
Southwest Southwest	Murrieta Murrieta	Jackson Jefferson	Whitewood Palomar	Ynez Nutmeg	\$0 \$1,562,000	\$0 \$1,562,000	\$U \$44,000	0% 0% 0.32 0% 0% 0.07	0.62 0.10	\$	U \$1 ∩ \$1	0 \$0	\$0 \$44,000	\$0 \$0	\$0 \$0	\$0
Southwest	Murrieta	Jefferson	Nutmeg	Murrieta Hot Springs	\$0	\$0	\$0	0% 0% 0.46	0.63	\$	O \$1	0 \$0	\$0	\$0	\$0	\$0
Southwest	Murrieta	Jefferson	Murrieta Hot Springs	Cherry	\$30,634,000	\$30,634,000	\$227,000	0% 0% 0.47	0.80	\$	0 \$1	0 \$0	\$227,000	\$0	\$0	\$0
Southwest	Murrieta	Keller	I-215	Whitewood	\$0	\$0	\$0	0% 0% 0.20	0.45	\$	0 \$1	0 \$0	\$0	\$0	\$0	\$0
Southwest Southwest	Murrieta Murrieta	Keller Los Alamos	I-215 Jefferson	interchange I-215	\$0	\$0 \$0	\$0 *0	0% 0% 0.09 0% 0% 0.24	0.06 0.38	\$	0 \$1	0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0
Southwest	Murrieta	Murrieta Hot Springs	Jefferson	I-215	\$0 \$0	\$0	\$0 Between Hancock and I-215	0% 0% 0.24 17% 17% 0.62	0.36		∪ ⊅ ∩ \$i	0 \$0	\$0 \$0	\$0	\$0 \$0	\$0
Southwest	Murrieta	Murrieta Hot Springs	I-215	Margarita	\$0	\$0	\$0 Between I-215 and I-215 NB On Ramp, and Alta Murrieta and \$1. Maria	11% 11% 0.82	1.08	\$	0 \$	0 \$0	\$0	\$0	\$0	\$0
Southwest	Murrieta	Murrieta Hot Springs	Margarita	SR-79 (Winchester)	\$4,057,000	\$3,899,000	\$101,000 Between Margarita and Calle del Lago	57% 57% 0.93	1.33	93% \$158,00	0 \$1	0 \$158,000	\$105,000	\$4,000	\$4,000	\$162,000
Southwest	Murrieta	Nutmeg	Jefferson	Clinton Keith	\$0	\$0	\$0	0% 0% 0.45	0.69	\$	0 \$1	0 \$0	\$0	\$0	\$0	\$0
Southwest Southwest	Murrieta Murrieta	Whitewood Whitewood	Clinton Keith Los Alamos	Los Alamos Murrieta Hot Springs	\$2,708,000 \$0	\$2,708,000	\$77,000 \$0	0% 0% 0.45 0% 0% 0.45	0.76 0.75	\$	U \$1 ∩ \$1	0 \$0	\$77,000 \$0	\$0 \$0	\$0 \$0	\$0
Southwest	Murrieta	Whitewood	Murrieta Hot Sprinas	Jackson	\$4,629,000	\$4,629,000	\$47,000	0% 0% 0.15	0.75	₽ \$	O \$1	0 \$0	\$47,000	\$0	\$0	\$0 \$0
Southwest	Murrieta	Ynez	Jackson	SR-79 (Winchester)	\$0	\$0	\$0	0% 0% 0.62	1.00	\$	0 \$1	0 \$0	\$0	\$0	\$0	\$0
Southwest	Temecula	Butterfield Stage	Murrieta Hot Springs	Calle Chapos	\$816,000	\$816,000	\$0	0% 0% 0.61	1.15	\$	0 \$1	0 \$0	\$0	\$0	\$0	\$0
Southwest Southwest	Temecula Temecula	Butterfield Stage Butterfield Stage	Calle Chapos	La Serena Rancho California	\$696,000 \$904,000	\$696,000 \$904.000	\$0	0% 0% 0.58 100% 100% 0.95	0.93 1.21	\$ 85% \$	0 \$1	0 \$0	\$0	\$0	\$0	\$0
Southwest	Temecula	Butterfield Stage	La Serena Rancho California	Pauba	\$904,000 \$846,000	\$846,000	\$0 Between La Serena and Rancho California \$0 Between Rancho California and Creek	100% 100% 0.95 5% 5% 0.55	0.88	85% \$	∪ ֆ ∩ \$	0 \$0	\$U \$0	\$U \$0	\$U \$0	\$0 \$0
Southwest	Temecula	Butterfield Stage	Pauba	SR-79 (Temecula Pkwy)	\$725,000	\$725,000	\$21,000	0% 0% 0.49	0.84	\$	0 \$1	0 \$0	\$21,000	\$0	\$0	\$0
Southwest	Temecula	Jefferson	Cherry	Rancho California	\$2,285,000	\$2,285,000	\$0	0% 0% 0.34	0.92	\$	0 \$1	0 \$0	\$0	\$0	\$0	\$0
Southwest	Temecula	Margarita	Murrieta Hot Springs	SR-79 (Temecula Pkwy)	\$7,644,000	\$7,644,000	\$0 Between Winchester and Campos Verdes, and Solana and 250 ft North of Ramsey	5% 5% 0.65	1.04	\$	0 \$1	0 \$0	\$0	\$0	\$0	\$0
Southwest Southwest	Temecula Temecula	Old Town Front Pechanga Pkwy	Rancho California SR-79 (Temecula Pkwy)	I-15/SR-79 (Temecula Pkwy) Via Gilberto	\$0 \$0	\$0 \$0	\$0 \$0	0% 0% 0.68 0% 0% 0.72	1.37 1.02	\$	0 \$1	0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
Southwest	Temecula	Pechanga Pkwy	Via Gilberto	Pechanga Pkwy	\$0 \$0	\$0	\$0 \$0	0% 0% 0.42	0.52	₽ \$	O \$1	0 \$0	\$0	\$0	\$0	\$0 \$0
Southwest	Temecula	Rancho California	Jefferson	Margarita	\$18,254,000	\$18,181,000	\$101,000 Between I-15 SB On Ramp and I-15, and Moraga and Casmic	40% 40% 0.90	1.37	99% \$73,00		0 \$73,000	\$101,000	\$0	\$0	\$73,000
Southwest	Temecula	Rancho California	I-15	interchange	\$32,698,000	\$0	\$0	0% 0% 1.55	2.67	63% \$12,098,00	0 \$32,698,00	0 \$0	\$0	\$0	\$0	\$0
Southwest	Temecula	Rancho California SR-79 (Temecula Pkwy)	Margarita I-15	Butterfield Stage	\$0	\$0 \$0	\$0 \$0 Between H 5 and Pechanaa	0% 0% 0.63 100% 100% 1.08	0.74 1.42	\$ 65% \$	0 \$1	0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0
Southwest Southwest	Temecula Temecula	SR-79 (Temecula Pkwy)	Pechanga Pkwy	Pechanga Pkwy Butterfield Stage	\$3,065,000	\$3,065,000	\$0 \$0	0% 0% 0.65	0.88	65% \$	∪ ⊅ ∩ \$i	0 \$0 0 \$0	\$0 \$0	\$0	\$0 \$0	\$0 \$0
Southwest	Unincorporate		Scott	SR-79 (Winchester)	\$6,509,000	\$6,509,000	\$169,000	0% 0% 0.41	0.70	\$	0 \$	0 \$0	\$169,000	\$0	\$0	\$0
Southwest		ec Butterfield Stage	Tucalota Creek	bridge	\$0	\$0	\$0	0% 0% 0.41	0.70	\$	0 \$1	0 \$0	\$0	\$0	\$0	\$0
Southwest		ec Butterfield Stage (Pourroy)	Auld	Murrieta Hot Springs	\$23,076,000	\$23,076,000	\$656,000 Between Auld and Honey Pine	23% 12% 0.88	0.99	\$	0 \$1	0 \$0	\$656,000	\$0	\$0	\$0
Southwest Southwest	Unincorporate	ec Grana ec Horsethief Canvon	Ortega Temescal Canvon	Corydon I-15	\$68,025,000 \$0	\$68,025,000 \$0	\$505,000 Between Zinck and Stoneman, and Ontario and Corydon	16% 16% 0.80 0% 0% 0.81	0.64	\$	U \$1 ∩ \$1	0 \$0	\$505,000 \$0	\$0 \$0	\$0 \$0	\$0 \$0
Southwest		ec Indian Truck Trail	Temescal Canyon	I-15	\$0 \$0	\$0	\$0	0% 0% 0.15	0.21	\$	- P O \$1	0 \$0	\$0 \$0	\$0	\$0	\$0
Southwest	Unincorporate	ec Murrieta Hot Springs	SR-79 (Winchester)	Pourroy	\$0	\$0	\$0 Between Winchester and Vons	4% 4% 0.46	0.86	\$	0 \$	0 \$0	\$0	\$0	\$0	\$0
Southwest	Unincorporate		Pechanga	San Diego County	\$0	\$0	\$0 Between Pechango and Rainbow Oaks	48% 48% 0.88	1.48	\$	0 \$1	0 \$0	\$0	\$0	\$0	\$0
Southwest Southwest	Unincorporate	ec Pourroy ec Rancho California	SR-79 (Winchester) Butterfield Stage	Auld Glen Oaks	\$2,236,000 \$87,369,000	\$2,236,000 \$87,369,000	\$64,000 \$482,000	0% 0% 0.42 0% 0% 0.65	0.57 0.93	\$	U \$1 ∩ ¢:	U \$0	\$64,000 \$482,000	\$0 \$0	\$0 •0	\$0 •0
Southwest		ec Temescal Canyon	Horsethief Canyon Wash	bridge	\$3,340,000	\$3,340,000	\$115,000	0% 0% 0.83 0% 0% 0.66	0.86		O .\$i	0 \$0	\$115,000	\$0 \$0	\$0 \$0	\$0 \$0
Southwest		ec Temescal Canyon	Indian Truck Trail	I-15	\$15,739,000	\$15,739,000	\$447,000	0% 0% 0.64	0.97	\$	0 \$	0 \$0	\$447,000	\$0	\$0	\$0
Southwest		ec Temescal Canyon	Indian Wash	bridge	\$1,462,000	\$1,462,000	\$50,000	0% 0% 0.61	0.80	\$	0 \$1	0 \$0	\$50,000	\$0	\$0	\$0
Southwest Southwest	Wildomar Wildomar	Bundy Canyon	Mission	I-15 Wildomar Trail	\$9,704,000 \$0	\$9,704,000	\$72,000	0% 0% 0.60 0% 0% 0.72	0.90 0.89	\$	U \$1	U \$0	\$72,000	\$0 ©0	\$0 *^	\$0
Southwest	Wildomar	Grand Mission	Corydon Bundy Canyon	Palomar Iraii Palomar	\$U \$0	≱U \$Ω	\$0	0% 0% 0.72 0% 0% 0.20	0.89	\$ \$	∪ \$1 ∩ \$1	0 \$0	şu \$n	φυ .\$0	υφ Ω*	\$0 \$0
Southwest	Wildomar	Palomar	Clinton Keith	Washington	\$3,227,000	\$3,227,000	\$84,000	0% 0% 0.59	0.88	\$	- P O \$1	0 \$0	\$84,000	\$0	\$0	\$0
Southwest	Wildomar	Palomar	Mission	Clinton Keith	\$13,493,000	\$13,493,000	\$383,000	0% 0% 0.60	0.88	\$	0 \$	0 \$0	\$383,000	\$0	\$0	\$0
Southwest	Wildomar	Wildomar Trail	I-15	Baxter	\$1,281,000	\$1,281,000	\$33,000 Between I-15 SB On Ramp to Baxter	73% 73% 0.87	1.06	\$	0 \$1	0 \$0	\$33,000	\$0	\$0	\$0
Southwest Southwest	Wildomar Wildomar	Wildomar Trail Wildomar Trail	I-15 Baxter	interchange Palomar	\$32,698,000 \$11,316,000	\$27,858,000 \$11,316,000	\$0 \$84,000 Between Baxter and Cervera	0% 0% 0.94 35% 35% 0.82	1.15 0.94	85% \$4,840,00 \$	U \$1 ∩ ¢:	0 \$4,840,000 0 \$0	\$0 \$84,000	\$0 \$0	\$0 •0	\$4,840,000 \$0
Southwest	Wildomar	Wildomar Trail	Palomar	Grand	φ11,310,000 \$0	\$0	\$0 \$0	0% 0% 0.87	1.03	\$ \$	O \$1	0 \$0	ф04,000 \$0	\$0	\$0	\$0 \$0
Subtotal					\$2,508,329,000	\$1,913,028,000	\$23,597,000	13.2%		7000/0.0/00	0 \$264,315,00	0 \$330,986,000	\$32,098,000	\$318,000	\$318,000	\$331,304,000
Totals	Network				\$ 4,840,250,000 \$	3,874,735,000 \$	53,859,000	12.0% Network Unfunded Existing Need Adj	justment	\$ 652,275,000	\$382,886,000		64,606,000 \$	1,410,000 \$	1,263,000 \$	583,892,000
	Transit Administration	•			\$ 217,870,000 \$ \$ 161,183,000 \$	154,831,000 161,183,000		28.9% Transit Existing Need Adjustment				\$ 63,039,000				
	MSHCP	•			\$ 64,606,000 \$	53,859,000						\$ 1,263,000				
	TOTAL				\$ 5,283,909,000 \$	4,244,608,000		12.2% Total Unfunded Existing Need Adjust	tment			\$ 646,931,000				

EXHIBIT H-3 Regional Transit Existing Need Share

Summary of Transit Trip Change

Year	Western Riverside Daily Transit Trips
2023*	16,575
2045**	57,282
Growth 2023 - 2045	40,707
Existing Need Share:	28.9%
Future Growth Share:	71.1%

Notes:

 * - 2023 actual average weekday daily ridership provided by RTA staff December 1, 2023

** - 2045 forecast average weekday daily ridership obtained from SCAG 2020 RTP/SCS Model as provided by Fehr and Peers November

Maximum TUMF Transit Component Value

RTA Transit Full Mitigation Cost	Existing Need Cost	MAX TUMF TRANSIT VALUE
\$217,870,000	\$63,039,000	\$154,831,000
Total MAX TUMF VALUE		\$4,297,490,440
Transit Share of MAX TU	IMF VALUE	3.6%

Appendix I - Western Riverside County Regional Trip Distribution

In order to ensure an equitable regional/zonal distribution of potential TUMF revenues, the distribution of trips in the WRCOG region was analyzed to determine the distribution between local (intra-zonal) and regional (inter-zonal) trips. This analysis was completed using the Year 2040 No-Build scenario Origin-Destination (O-D) vehicle trip tables from RivCoM. The analysis of vehicle trips based on the respective trip ends as stratified by zone is considered sufficient to establish the rough proportionality between local (intrazonal) and regional (inter-zonal) trips because this measure is intended to only serve as a guide in the distribution of potential TUMF revenues between regional and local projects, and is not intended to serve as the basis for quantifying the relative magnitude of the impacts of different types of new development on the TUMF network (as described in **Appendix J**)

The first step in the analysis was to create a correspondence table between the traffic analysis zones (TAZ's) in the RivCoM model and the five WRCOG TUMF zones: Northwest, Central, Pass Area, Hemet/San Jacinto, and Southwest. A table detailing the TAZ correspondence for each WRCOG TUMF zone is included as **Exhibit I-1** in this Appendix. The vehicle trip tables by TAZ were aggregated to obtain the trip summary between six districts (five WRCOG TUMF Zones and one for the rest of Southern California region included in the model analysis area)

Table 5.1 and **5.2** of the Nexus Study produce a matrix of total combined AM and PM peak period vehicle trips between the six districts. This information is subsequently weighted by TUMF future network lane miles in **Table 5.3** to determine the relative share of trips that can be allocated between the backbone network and secondary network. **Exhibits I-2** through **I-11** provide the corresponding peak period vehicle trip matrices for each of the four time periods analyzed by the RivCoM model (AM peak, midday, PM peak and overnight) as well as total daily trips between the six districts.

EXHIBIT I-1
RIVCOM TAZ Correspondence by WRCOG TUMF Zone - Hemet/San Jacinto

1008	Riverside Riverside	Central Central	Lake Elsinore Menifee
1044	Riverside	Central	Menifee
	Riverside	Central	Menifee
1048	Riverside	Central	Menifee
1048	Riverside	Central	Menifee
1049	Riverside	Central	Menifee
1050	Riverside	Central	Menifee
1051	Riverside	Central	Menifee
052	Riverside	Central	Menifee
053	Riverside		Menifee
054	Riverside	Central	Menifee
	Riverside	Central	Menifee
056	Riverside	Central	Menifee
1057	Riverside	Central	Menifee
1058	Riverside	Central	Menifee
059	Riverside	Central	Menifee
	Riverside	Central	Menifee
1061	Riverside	Central	Menifee
062	Riverside	Central	Menifee
1063	Riverside		Menifee
1064	Riverside	Central	Menifee
1065	Riverside	Central	Menifee
066	Riverside	Central	Menifee
1068	Riverside Riverside	Central	Menifee Menifee
069	Riverside	Central	Menifee
1070	Riverside	Central	Menifee
1071	Riverside	Central	Menifee
1072	Riverside	Central	Menifee
1073	Riverside	Central	Menifee
1074	Riverside	Central	Menifee
1075	Riverside	Central	Menifee
1076	Riverside	Central	Menifee
1077	Riverside	Central	Menifee
078	Riverside	Central	Menifee
	Riverside	Central	Menifee
080	Riverside	Central	Menifee
1081	Riverside	Central	Menifee
	Riverside	Central	Menifee
083	Riverside	Central	Menifee
084	Riverside	Central	Menifee
085	Riverside	Central	Menifee
1086	Riverside	Central	Menifee
1087	Riverside	Central	Menifee
088	Riverside	Central	Menifee
	Riverside	Central	Menifee
090	Riverside	Central	Menifee
1091	Riverside	Central	Menifee
1092	Riverside	Central	Menifee
1093	Riverside	Central	Menifee
1094	Riverside		Menifee
1095	Riverside	Central	Menifee
1096	Riverside	Central	Menifee
1097	Riverside	Central	Menifee
1098	Riverside	Central	Menifee
1099	Riverside	Central	Menifee
1100	Riverside	Central	Menifee
101	Riverside	Central	Menifee
	Riverside	Central	Menifee
103	Riverside	Central	Menifee
	Riverside	Central	Menifee
105	Riverside	Central	Menifee
106	Riverside	Central	Menifee
	Riverside	Central	Menifee
108	Riverside	Central	Menifee
	Riverside	Central	Menifee
110	Riverside	Central	Menifee
1112	Riverside Riverside	Central	Menifee Menifee
1113	Riverside	Central	Menifee
	Riverside	Central	Menifee
1115	Riverside	Central	Menifee
	Riverside	Central	Menifee
1117	Riverside	Central	Menifee
1118	Riverside	Central	Menifee
	Riverside	Central	Menifee
120	Riverside	Central	Menifee
	Riverside	Central	Menifee
122	Riverside	Central	Menifee
123	Riverside	Central	Menifee
	Riverside	Central	Menifee
125	Riverside	Central	Menifee
	Riverside	Central	Menifee
127	Riverside	Central	Menifee
	Riverside	Central	Menifee
129	Riverside	Central	Menifee
1130	Riverside	Central	Menifee
	Riverside	Central	Menifee
132	Riverside	Central	Menifee
	Riverside	Central	Menifee
1134	Riverside	Central	Menifee
135	Riverside	Central	Menifee
	Riverside	Central	Menifee
1137	Riverside Riverside	Central	Menifee Menifee
139	Riverside	Central	Menifee
1140	Riverside	Central	Menifee
	Riverside	Central	Menifee
1142	Riverside	Central	Menifee
	Riverside	Central	Moreno Valley
144	Riverside Riverside	Central Central	Moreno Valley
1146	Riverside	Central	Moreno Valley
1147	Riverside	Central	Moreno Valley
	Riverside	Central	Moreno Valley
1149	Riverside	Central	Moreno Valley
	Riverside	Central	Moreno Valley
1151	Riverside	Central	Moreno Valley
152	Riverside Riverside	Central	Moreno Valley Moreno Valley
1154	Riverside	Central	Moreno Valley
	Riverside	Central	Moreno Valley
1156	Riverside	Central	Moreno Valley
157	Riverside	Central	Moreno Valley
158	Riverside	Central	Moreno Valley
159	Riverside	Central	Moreno Valley
	Riverside	Central	Moreno Valley
1161	Riverside	Central	Moreno Valley
162	Riverside Riverside	Central	Moreno Valley Moreno Valley
164	Riverside	Central	Moreno Valley
	Riverside	Central	Moreno Valley
166	Riverside	Central	Moreno Valley
1167	Riverside Riverside	Central	Moreno Valley Moreno Valley
1169	Riverside	Central	Moreno Valley
	Riverside	Central	Moreno Valley
171	Riverside	Central	Moreno Valley
	Riverside	Central	Moreno Valley
173	Riverside	Central	Moreno Valley
174	Riverside	Central	Moreno Valley
	Riverside	Central	Moreno Valley
176	Riverside	Central	Moreno Valley
178	Riverside Riverside	Central Central	Moreno Valley
179	Riverside	Central	Moreno Valley
	Riverside	Central	Moreno Valley
181	Riverside	Central	Moreno Valley
182	Riverside	Central	Moreno Valley
	Riverside	Central	Moreno Valley
184	Riverside	Central	Moreno Valley
	Riverside	Central	Moreno Valley
186	Riverside	Central	Moreno Valley
1187	Riverside Riverside	Central	Moreno Valley Moreno Valley
188			Moreno Valley
189	Riverside Riverside	Central Central	Moreno Vallov
189 190 191	Riverside Riverside	Central Central	Moreno Valley Moreno Valley
189 1190	Riverside	Central	Moreno Valley

Jacinto	•		
TAZ	County	WRCOG Zone	City
	Riverside	Central	Moreno Valley
1198	Riverside	Central	Moreno Valley
1199	Riverside	Central	Moreno Valley
1200	Riverside	Central	Moreno Valley
1201	Riverside	Central	Moreno Valley
1202	Riverside	Central	Moreno Valley
	Riverside	Central	Moreno Valley
1204	Riverside	Central	Moreno Vallev
1205	Riverside	Central	Moreno Valley
1206	Riverside	Central	Moreno Valley
1207	Riverside	Central	Moreno Valley
1208	Riverside	Central	Moreno Valley
1209	Riverside	Central	Moreno Valley
1210	Riverside	Central	Moreno Valley
1210 1211 1212	Riverside Riverside	Central	Moreno Valley Moreno Valley Moreno Valley
1213	Riverside	Central	Moreno Valley
1215	Riverside	Central	Moreno Valley
	Riverside	Central	Moreno Valley
1216	Riverside	Central	Moreno Valley
1217	Riverside	Central	Moreno Valley
1218	Riverside	Central	Moreno Valley
	Riverside	Central	Moreno Valley
1219 1220 1221	Riverside Riverside	Central Central	Moreno Valley Moreno Valley Moreno Valley
1222	Riverside	Central	Moreno Valley
	Riverside	Central	Moreno Valley
1224	Riverside	Central	Moreno Valley
1226	Riverside Riverside	Central	Moreno Valley Moreno Valley
1227	Riverside	Central	Moreno Valley
1228	Riverside	Central	Moreno Valley
1229	Riverside	Central	Moreno Valley
1230	Riverside	Central	Moreno Valley
1231	Riverside Riverside	Central	Moreno Valley Moreno Valley
1233 1234	Riverside Riverside	Central Central Central	Moreno Valley Moreno Valley
1235 1236 1237	Riverside	Control	Moreno Valley
1236	Riverside Riverside	Central Central	Moreno Valley Moreno Valley Moreno Valley
1238	Riverside	Central	Moreno Valley
1239	Riverside	Central	Moreno Valley
1240	Riverside Riverside	Central	Moreno Valley Moreno Valley
1242	Riverside Riverside	Central Central	Moreno Valley
1243 1244 1245	Riverside	Central	Moreno Valley Moreno Valley Moreno Valley
1246	Riverside Riverside	Central	Moreno Valley
1247	Riverside	Central	Moreno Valley
1248	Riverside		Moreno Valley
1249	Riverside	Central	Moreno Valley
1250	Riverside	Central	Moreno Valley
1251 1252	Riverside Riverside	Central	Moreno Valley
1253	Riverside	Central	Moreno Valley Moreno Valley
1255	Riverside	Central	Moreno Valley
	Riverside	Central	Moreno Valley
1256	Riverside	Central	Moreno Valley
1257	Riverside	Central	Moreno Valley
1258	Riverside	Central	Moreno Valley
1259	Riverside		Moreno Valley
1260 1261 1262	Riverside Riverside	Central Central	Moreno Valley Moreno Valley Moreno Valley
1262	Riverside	Central	Moreno Valley Moreno Valley
1263	Riverside	Central	
1264	Riverside	Central	Moreno Valley
1265	Riverside	Central	Moreno Valley
1266	Riverside	Central	Moreno Valley
1267	Riverside	Central	Moreno Valley
1268	Riverside	Central	Moreno Valley
1269	Riverside	Central	Moreno Valley
1270	Riverside	Central	Moreno Valley
1271	Riverside	Central	Moreno Valley
1272	Riverside	Central	Moreno Valley
1273	Riverside	Central	Moreno Valley
1274	Riverside	Central	Moreno Valley
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1277	Riverside	Central	Moreno Valley
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1282	Riverside	Central	Moreno Valley
1283	Riverside	Central	Moreno Valley
1284	Riverside	Central	Moreno Valley
1285	Riverside	Central	Moreno Valley
1793	Riverside	Central	Perris
1794	Riverside	Central	Perris
1796	Riverside	Central	Perris
	Riverside	Central	Perris
1797	Riverside	Central	Perris
1798	Riverside	Central	Perris
1799	Riverside	Central	Perris
1800	Riverside	Central	Perris
1801	Riverside	Central	Perris
1802	Riverside		Perris
1803	Riverside	Central	Perris
1804	Riverside	Central	Perris
1805	Riverside	Central	Perris
1806	Riverside	Central	Perris
	Riverside	Central	Perris
1808	Riverside	Central	Perris
1809	Riverside	Central	Perris
1810	Riverside	Central	Perris
1811	Riverside	Central	Perris
1812	Riverside	Central	Perris
1813	Riverside	Central	Perris
1814	Riverside	Central	Perris
1815	Riverside	Central	Perris
1816	Riverside	Central	Perris
1817	Riverside		Perris
1818	Riverside	Central	Perris
1819	Riverside	Central	Perris
	Riverside	Central	Perris
1821	Riverside	Central	Perris
1822	Riverside		Perris
1823	Riverside	Central	Perris
1824	Riverside		Perris
1825	Riverside	Central	Perris
1826	Riverside		Perris
1827	Riverside	Central	Perris
1828	Riverside	Central	Perris
1829	Riverside	Central	Perris
1830	Riverside	Central	Perris
1831	Riverside	Central Central	Perris
1833	Riverside Riverside	Central	Perris Perris
1834	Riverside	Central	Perris
1835	Riverside	Central	Perris
1836	Riverside	Central	Perris
1837	Riverside	Central	Perris
1838	Riverside	Central	Perris
	Riverside	Central	Perris
1840	Riverside	Central	Perris
1842	Riverside Riverside	Central	Perris Perris
1843	Riverside	Central	Perris
1844	Riverside	Central	Perris
1845	Riverside	Central	Perris
1846	Riverside		Perris
1847	Riverside	Central	Perris
1848	Riverside	Central	Perris
1849 1850	Riverside Riverside	Central	Perris
1851	Riverside	Central	Perris Perris
1852	Riverside	Central	Perris
1853	Riverside	Central	Perris
1854	Riverside	Central	Perris

TAZ	County	WRCOG Zone	City
1857	Riverside	Central	Perris
1858 1859	Riverside	Central	Perris
1860	Riverside Riverside	Central	Perris Perris
1861	Riverside	Central	Perris
1862	Riverside	Central	Perris
1863	Riverside	Central	Perris
1864	Riverside	Central	Perris
1865	Riverside	Central	Perris
1866	Riverside		Perris
1867	Riverside	Central	Perris
1868	Riverside	Central	Perris
1869	Riverside	Central	Perris
1870	Riverside	Central	Perris
1871	Riverside	Central	Perris
1872	Riverside	Central	Perris
1873	Riverside		Perris
1874	Riverside	Control	Perris
1875	Riverside	Central	Perris
1876	Riverside	Central	Perris
1877	Riverside	Central	Perris
1878	Riverside	Central	Perris
1879	Riverside	Central	Perris
2126	Riverside	Central	Riverside
2127	Riverside	Central	Riverside
2128	Riverside	Central	Riverside
2320	Riverside	Central	Unincorporated
2327	Riverside	Central	Unincorporated
2328	Riverside		Unincorporated
2329	Riverside	Central	Unincorporated Unincorporated
2330	Riverside	Central	
2331	Riverside	Central	Unincorporated Unincorporated
2332	Riverside	Central	
2333 2334	Riverside Riverside	Central	Unincorporated
2335	Riverside	Central Central	Unincorporated Unincorporated
2337	Riverside Riverside	Central	Unincorporated Unincorporated
2339	Riverside	Central	Unincorporated Unincorporated
2341	Riverside	Central	
2343	Riverside	Central	Unincorporated
2344	Riverside	Central	Unincorporated
2345 2350	Riverside Riverside	Central	Unincorporated Unincorporated
2351 2352	Riverside	Central	Unincorporated
2353	Riverside Riverside	Central Central	Unincorporated Unincorporated
2354	Riverside	Central	Unincorporated Unincorporated
2359	Riverside	Central	
2668	Riverside	Central	Unincorporated Unincorporated
2669	Riverside	Central	
2673	Riverside	Central	Unincorporated
2675	Riverside	Central	
2676	Riverside	Central	Unincorporated Unincorporated
2677	Riverside	Central	
2678	Riverside	Central	Unincorporated Unincorporated
2682	Riverside	Central	Unincorporated Unincorporated
2683	Riverside	Central	
2684	Riverside	Central	Unincorporated
2685	Riverside	Central	Unincorporated
2686	Riverside	Central	Unincorporated Unincorporated
2687	Riverside	Central	
2688 2689	Riverside	Central	Unincorporated
2690	Riverside	Central	Unincorporated
	Riverside	Central	Unincorporated
2691	Riverside	Central	Unincorporated Unincorporated
2692	Riverside	Central	
2693	Riverside	Central	Unincorporated Unincorporated
2694	Riverside	Central	
2709	Riverside	Central	Unincorporated Unincorporated
2710	Riverside	Central	
2711	Riverside Riverside	Central Central	Unincorporated
2713	Riverside	Central	Unincorporated Unincorporated
2714	Riverside	Central	Unincorporated
2715	Riverside	Central	Unincorporated
2716	Riverside	Central	Unincorporated Unincorporated
2717	Riverside	Central	
2719	Riverside	Central	Unincorporated
2721	Riverside	Central	Unincorporated
2722	Riverside	Central	Unincorporated Unincorporated
2723	Riverside	Central	
2724 2725	Riverside Riverside	Central	Unincorporated
2725 2727 2728	Riverside	Central	Unincorporated Unincorporated Unincorporated
2729	Riverside Riverside	Central	Unincorporated
2733	Riverside	Central	Unincorporated Unincorporated
2744	Riverside	Central	
2745	Riverside	Central	Unincorporated Unincorporated
2746	Riverside	Central	
2747 2748	Riverside	Central	Unincorporated
2752	Riverside Riverside	Central	Unincorporated Unincorporated
2753	Riverside	Central	Unincorporated
2754	Riverside	Central	Unincorporated
2755	Riverside	Central	Unincorporated Unincorporated
2756	Riverside	Central	
2757	Riverside	Central	Unincorporated Unincorporated
2758	Riverside	Central	
2759 2760	Riverside Riverside	Central	Unincorporated Unincorporated
2761	Riverside	Central	Unincorporated Unincorporated
2762	Riverside	Central	
2780	Riverside	Central	Unincorporated
2781	Riverside	Central	Unincorporated Unincorporated
2782	Riverside	Central	
2783	Riverside	Central	Unincorporated
2784	Riverside	Central	Unincorporated
2785	Riverside	Central	Unincorporated Unincorporated
2786	Riverside	Central	
2787	Riverside	Central	Unincorporated
2788	Riverside	Central	Unincorporated
2789	Riverside	Central	Unincorporated Unincorporated
2793	Riverside	Central	
2794 2795	Riverside	Central	Unincorporated
2796	Riverside Riverside	Control	Unincorporated Unincorporated
2797	Riverside	Central	Unincorporated Unincorporated
2802	Riverside	Central	
2804	Riverside	Central	Unincorporated
2807	Riverside	Central	Unincorporated
2809	Riverside	Central	Unincorporated Unincorporated
2825	Riverside	Central	
2853	Riverside	Central	Unincorporated Unincorporated
2857	Riverside	Central	
2862	Riverside	Central	Unincorporated
2863	Riverside	Central	
2864	Riverside	Central	Unincorporated Unincorporated
2869	Riverside	Central	Unincorporated Unincorporated
2870	Riverside	Central	
2872	Riverside	Central	Unincorporated
2875	Riverside	Central	Unincorporated
2877	Riverside	Central	Unincorporated
2878	Riverside	Central	
2879	Riverside	Central	Unincorporated Unincorporated Unincorporated
2880	Riverside	Central	
2905 2906	Riverside	Central	Unincorporated
2907	Riverside Riverside	Central Central	Unincorporated Unincorporated
3177	Riverside	Central	Unincorporated
3183	Riverside	Central	Unincorporated
3225	Riverside	Central	Unincorporated
3227	Riverside	Central	Unincorporated
3228	Riverside	Central	Unincorporated Unincorporated
3229	Riverside	Central	
3230	Riverside	Central	Unincorporated Unincorporated
3231	Riverside	Central	
3232	Riverside	Central	Unincorporated Unincorporated
3233	Riverside	Central	
3235	Riverside	Central	Unincorporated
3236	Riverside	Central	Unincorporated

EXHIBIT I-1 (continued)
RivCoM TAZ Correspondence by WRCOG TUMF Zone - Hemet/San Jacinto

642 643 644 645 646 647 648 649 650 651 652 653	Riverside Riverside Riverside Riverside Riverside Riverside Riverside	Hemet/San Jacinto Hemet/San Jacinto Hemet/San Jacinto Hemet/San Jacinto Hemet/San Jacinto	Hemet Hemet Hemet Hemet
643 644 645 646 647 648 649 650 651 652 653 654	Riverside Riverside Riverside Riverside	Hemet/San Jacinto Hemet/San Jacinto	Hemet Hemet
644 645 646 647 648 649 650 651 652 653	Riverside Riverside Riverside	Hemet/San Jacinto	Hemet
645 646 647 648 649 650 651 652 653	Riverside Riverside		
646 647 648 649 650 651 652 653 654	Riverside		
647 648 649 650 651 652 653 654		Hemet/San Jacinto	Hemet
648 649 650 651 652 653 654		Hemet/San Jacinto	Hemet
649 650 651 652 653 654	Riverside	Hemet/San Jacinto	Hemet
651 652 653 654	Riverside	Hemet/San Jacinto	Hemet
651 652 653 654	Riverside	Hemet/San Jacinto	Hemet
652 653 654	Riverside	Hemet/San Jacinto	Hemet
654	Riverside	Hemet/San Jacinto	Hemet
	Riverside	Hemet/San Jacinto	Hemet
	Riverside	Hemet/San Jacinto	Hemet
655	Riverside	Hemet/San Jacinto	Hemet
656	Riverside	Hemet/San Jacinto	Hemet
657	Riverside	Hemet/San Jacinto	Hemet
658	Riverside	Hemet/San Jacinto	Hemet
659	Riverside	Hemet/San Jacinto	Hemet
660	Riverside	Hemet/San Jacinto	Hemet
661	Riverside	Hemet/San Jacinto	Hemet
662	Riverside	Hemet/San Jacinto	Hemet
663 664	Riverside	Hemet/San Jacinto Hemet/San Jacinto	Hemet
665	Riverside Riverside	Hemet/San Jacinto	Hemet Hemet
666	Riverside		
667	Riverside	Hemet/San Jacinto Hemet/San Jacinto	Hemet Hemet
668	Riverside	Hemet/San Jacinto	Hemet
669	Riverside	Hemet/San Jacinto	Hemet
670	Riverside	Hemet/San Jacinto	Hemet
671	Riverside	Hemet/San Jacinto	Hemet
672	Riverside	Hemet/San Jacinto	Hemet
673	Riverside	Hemet/San Jacinto	Hemet
674	Riverside	Hemet/San Jacinto	Hemet
675	Riverside	Hemet/San Jacinto	Hemet
676	Riverside	Hemet/San Jacinto	Hemet
677	Riverside	Hemet/San Jacinto	Hemet
678	Riverside	Hemet/San Jacinto	Hemet
679	Riverside	Hemet/San Jacinto	Hemet
680	Riverside	Hemet/San Jacinto	Hemet
681	Riverside	Hemet/San Jacinto	Hemet
682	Riverside	Hemet/San Jacinto	Hemet
683	Riverside	Hemet/San Jacinto	Hemet
684	Riverside	Hemet/San Jacinto	Hemet
685	Riverside	Hemet/San Jacinto	Hemet
686 687	Riverside Riverside	Hemet/San Jacinto Hemet/San Jacinto	Hemet Hemet
688	Riverside	Hemet/San Jacinto	Hemet
689	Riverside	Hemet/San Jacinto	Hemet
690	Riverside	Hemet/San Jacinto	Hemet
691	Riverside	Hemet/San Jacinto	Hemet
692	Riverside	Hemet/San Jacinto	Hemet
693	Riverside	Hemet/San Jacinto	Hemet
694	Riverside	Hemet/San Jacinto	Hemet
695	Riverside	Hemet/San Jacinto	Hemet
696	Riverside	Hemet/San Jacinto	Hemet
697	Riverside	Hemet/San Jacinto	Hemet
698	Riverside	Hemet/San Jacinto	Hemet
699	Riverside	Hemet/San Jacinto	Hemet
700	Riverside	Hemet/San Jacinto	Hemet
701	Riverside	Hemet/San Jacinto	Hemet
702	Riverside	Hemet/San Jacinto	Hemet
703 704	Riverside Riverside	Hemet/San Jacinto Hemet/San Jacinto	Hemet
704	Riverside	Hemet/San Jacinto	Hemet Hemet
706	Riverside	Hemet/San Jacinto	Hemet
707	Riverside	Hemet/San Jacinto	Hemet
708	Riverside	Hemet/San Jacinto	Hemet
709	Riverside	Hemet/San Jacinto	Hemet
710	Riverside	Hemet/San Jacinto	Hemet
711	Riverside	Hemet/San Jacinto	Hemet
712	Riverside	Hemet/San Jacinto	Hemet
713	Riverside	Hemet/San Jacinto	Hemet
714	Riverside	Hemet/San Jacinto	Hemet
715	Riverside	Hemet/San Jacinto	Hemet
716	Riverside	Hemet/San Jacinto	Hemet
717	Riverside	Hemet/San Jacinto	Hemet
718	Riverside	Hemet/San Jacinto	Hemet
719 720	Riverside Riverside	Hemet/San Jacinto	Hemet Hemet
721	Riverside	Hemet/San Jacinto Hemet/San Jacinto	Hemet
722	Riverside	Hemet/San Jacinto	Hemet
723	Riverside	Hemet/San Jacinto	Hemet
724	Riverside	Hemet/San Jacinto	Hemet
725	Riverside	Hemet/San Jacinto	Hemet
726	Riverside	Hemet/San Jacinto	Hemet
727	Riverside	Hemet/San Jacinto	Hemet
728	Riverside	Hemet/San Jacinto	Hemet
729	Riverside	Hemet/San Jacinto	Hemet
730	Riverside	Hemet/San Jacinto	Hemet
731	Riverside	Hemet/San Jacinto	Hemet
732	Riverside	Hemet/San Jacinto	Hemet
733	Riverside	Hemet/San Jacinto	Hemet
734	Riverside	Hemet/San Jacinto	Hemet
735	Riverside	Hemet/San Jacinto	Hemet
736 737	Riverside Piverside	Hemet/San Jacinto Hemet/San Jacinto	Hemet
738	Riverside Riverside	Hemet/San Jacinto	Hemet Hemet

TAZ 2135	Riverside	WRCOG Zone Hemet/San Jacinto	City San Jacinto
2136	Riverside	Hemet/San Jacinto	San Jacinto
2137	Riverside	Hemet/San Jacinto	San Jacinto
2138	Riverside	Hemet/San Jacinto	San Jacinto
2139	Riverside	Hemet/San Jacinto	San Jacinto
2140	Riverside	Hemet/San Jacinto	San Jacinto
2141	Riverside	Hemet/San Jacinto	San Jacinto
2142	Riverside	Hemet/San Jacinto	San Jacinto
2143	Riverside Riverside	Hemet/San Jacinto Hemet/San Jacinto	San Jacinto San Jacinto
2145	Riverside	Hemet/San Jacinto	San Jacinto
2146	Riverside	Hemet/San Jacinto	San Jacinto
2147	Riverside	Hemet/San Jacinto	San Jacinto
2148	Riverside	Hemet/San Jacinto	San Jacinto
2149	Riverside	Hemet/San Jacinto	San Jacinto
2150	Riverside	Hemet/San Jacinto	San Jacinto
2151 2152	Riverside	Hemet/San Jacinto	San Jacinto
2152	Riverside Riverside	Hemet/San Jacinto Hemet/San Jacinto	San Jacinto San Jacinto
2154	Riverside	Hemet/San Jacinto	San Jacinto
2155	Riverside	Hemet/San Jacinto	San Jacinto
2156	Riverside	Hemet/San Jacinto	San Jacinto
2157	Riverside	Hemet/San Jacinto	San Jacinto
2158	Riverside	Hemet/San Jacinto	San Jacinto
2159	Riverside	Hemet/San Jacinto	San Jacinto
2160	Riverside Riverside	Hemet/San Jacinto Hemet/San Jacinto	San Jacinto San Jacinto
2162	Riverside	Hemet/San Jacinto	San Jacinto
2163	Riverside	Hemet/San Jacinto	San Jacinto
2164	Riverside	Hemet/San Jacinto	San Jacinto
2165	Riverside	Hemet/San Jacinto	San Jacinto
2166	Riverside	Hemet/San Jacinto	San Jacinto
2167	Riverside	Hemet/San Jacinto	San Jacinto
2168	Riverside	Hemet/San Jacinto	San Jacinto
2169 2170	Riverside Riverside	Hemet/San Jacinto Hemet/San Jacinto	San Jacinto San Jacinto
2171	Riverside	Hemet/San Jacinto	San Jacinto
2172	Riverside	Hemet/San Jacinto	San Jacinto
2173	Riverside	Hemet/San Jacinto	San Jacinto
2174	Riverside	Hemet/San Jacinto	San Jacinto
2175	Riverside	Hemet/San Jacinto	San Jacinto
2176	Riverside	Hemet/San Jacinto	San Jacinto
2177	Riverside	Hemet/San Jacinto	San Jacinto
2178 2179	Riverside Riverside	Hemet/San Jacinto Hemet/San Jacinto	San Jacinto San Jacinto
2180	Riverside	Hemet/San Jacinto	San Jacinto
2181	Riverside	Hemet/San Jacinto	San Jacinto
2182	Riverside	Hemet/San Jacinto	San Jacinto
2183	Riverside	Hemet/San Jacinto	San Jacinto
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2185	Riverside	Hemet/San Jacinto	San Jacinto
2186 2187	Riverside Riverside	Hemet/San Jacinto Hemet/San Jacinto	San Jacinto San Jacinto
2188	Riverside	Hemet/San Jacinto	San Jacinto
2189	Riverside	Hemet/San Jacinto	San Jacinto
2190	Riverside	Hemet/San Jacinto	San Jacinto
2191	Riverside	Hemet/San Jacinto	San Jacinto
2192	Riverside	Hemet/San Jacinto	San Jacinto
2193	Riverside	Hemet/San Jacinto	San Jacinto
2194 2195	Riverside	Hemet/San Jacinto	San Jacinto
2195	Riverside Riverside	Hemet/San Jacinto	San Jacinto San Jacinto
2176	Riverside	Hemet/San Jacinto Hemet/San Jacinto	San Jacinto
2198	Riverside	Hemet/San Jacinto	San Jacinto
2199	Riverside	Hemet/San Jacinto	San Jacinto
2200	Riverside	Hemet/San Jacinto	San Jacinto
2201	Riverside	Hemet/San Jacinto	San Jacinto
2202 2203	Riverside Riverside	Hemet/San Jacinto	San Jacinto
2203	Riverside	Hemet/San Jacinto Hemet/San Jacinto	San Jacinto San Jacinto
2205	Riverside	Hemet/San Jacinto	San Jacinto
2206	Riverside	Hemet/San Jacinto	San Jacinto
2207	Riverside	Hemet/San Jacinto	San Jacinto
2324	Riverside	Hemet/San Jacinto	Unincorporated
2325	Riverside	Hemet/San Jacinto	Unincorporated
2326	Riverside Riverside	Hemet/San Jacinto Hemet/San Jacinto	Unincorporated Unincorporated
2340	Riverside	Hemet/San Jacinto	Unincorporated Unincorporated
2342	Riverside	Hemet/San Jacinto	Unincorporated
2346	Riverside	Hemet/San Jacinto	Unincorporated
2347	Riverside	Hemet/San Jacinto	Unincorporated
2348	Riverside	Hemet/San Jacinto	Unincorporated
2349	Riverside	Hemet/San Jacinto	Unincorporated
2358 2360	Riverside Piverside	Hemet/San Jacinto Hemet/San Jacinto	Unincorporated Unincorporated
2360	Riverside Riverside	Hemet/San Jacinto	Unincorporated
2362	Riverside	Hemet/San Jacinto	Unincorporated
2471	Riverside	Hemet/San Jacinto	Unincorporated
2472	Riverside	Hemet/San Jacinto	Unincorporated
2491	Riverside	Hemet/San Jacinto	Unincorporated
2493	Riverside	Hemet/San Jacinto	Unincorporated
2494	Riverside	Hemet/San Jacinto	Unincorporated
2625	Riverside Piverside	Hemet/San Jacinto	Unincorporated
2626 2628	Riverside Riverside	Hemet/San Jacinto Hemet/San Jacinto	Unincorporated Unincorporated
2630	Riverside	Hemet/San Jacinto	Unincorporated
2631	Riverside	Hemet/San Jacinto	Unincorporated

TAZ	County	WRCOG Zone	City
2625	Riverside	Hemet/San Jacinto	Unincorporated
2626	Riverside	Hemet/San Jacinto	Unincorporated
2628	Riverside	Hemet/San Jacinto	Unincorporated
2630	Riverside	Hemet/San Jacinto	Unincorporated
2631	Riverside	Hemet/San Jacinto	Unincorporated
2632	Riverside	Hemet/San Jacinto	Unincorporated
2633	Riverside	Hemet/San Jacinto	Unincorporated
2634	Riverside	Hemet/San Jacinto	Unincorporated
2635	Riverside	Hemet/San Jacinto	Unincorporated
2641	Riverside	Hemet/San Jacinto	Unincorporated
2642	Riverside	Hemet/San Jacinto	Unincorporated
2643	Riverside	Hemet/San Jacinto	Unincorporated
2644	Riverside	Hemet/San Jacinto	Unincorporated
2645	Riverside	Hemet/San Jacinto	Unincorporated
2646	Riverside	Hemet/San Jacinto	Unincorporated
2647	Riverside	Hemet/San Jacinto	Unincorporated
2648	Riverside	Hemet/San Jacinto	Unincorporated
2649	Riverside	Hemet/San Jacinto	Unincorporated
2651	Riverside	Hemet/San Jacinto	Unincorporated
2652	Riverside	Hemet/San Jacinto	Unincorporated
2653	Riverside	Hemet/San Jacinto	Unincorporated
2654	Riverside	Hemet/San Jacinto	Unincorporated
2655	Riverside	Hemet/San Jacinto	Unincorporated
2660	Riverside	Hemet/San Jacinto	Unincorporated
2670	Riverside	Hemet/San Jacinto	Unincorporated
2679	Riverside	Hemet/San Jacinto	Unincorporated
2810	Riverside	Hemet/San Jacinto	Unincorporated
2811	Riverside	Hemet/San Jacinto	Unincorporated
2812	Riverside	Hemet/San Jacinto	Unincorporated
2815	Riverside	Hemet/San Jacinto	Unincorporated
2816	Riverside	Hemet/San Jacinto	Unincorporated
2817	Riverside	Hemet/San Jacinto	Unincorporated
2818	Riverside	Hemet/San Jacinto	Unincorporated
2819	Riverside	Hemet/San Jacinto	Unincorporated
2820	Riverside	Hemet/San Jacinto	Unincorporated
2821	Riverside	Hemet/San Jacinto	Unincorporated
2822	Riverside	Hemet/San Jacinto	Unincorporated
2823	Riverside	Hemet/San Jacinto	Unincorporated
2824	Riverside	Hemet/San Jacinto	Unincorporated
2826	Riverside	Hemet/San Jacinto	Unincorporated
2827	Riverside	Hemet/San Jacinto	Unincorporated
2828	Riverside	Hemet/San Jacinto	Unincorporated
2829	Riverside	Hemet/San Jacinto	Unincorporated
2830	Riverside	Hemet/San Jacinto	Unincorporated
2831	Riverside	Hemet/San Jacinto	Unincorporated
2832	Riverside	Hemet/San Jacinto	Unincorporated
2833	Riverside	Hemet/San Jacinto	Unincorporated
2834	Riverside	Hemet/San Jacinto	
2835	Riverside		Unincorporated
2836	Riverside	Hemet/San Jacinto Hemet/San Jacinto	Unincorporated
2839	Riverside	Hemet/San Jacinto	Unincorporated
2840	Riverside	Hemet/San Jacinto	Unincorporated
2841			Unincorporated
2842	Riverside	Hemet/San Jacinto Hemet/San Jacinto	Unincorporated Unincorporated
2843	Riverside Riverside	Hemet/San Jacinto	Unincorporated
2844	Riverside	Hemet/San Jacinto	
2845		Hemet/San Jacinto	Unincorporated
2848	Riverside Riverside	Hemet/San Jacinto	Unincorporated
2850	Riverside	Hemet/San Jacinto	Unincorporated
2851		Hemet/San Jacinto	Unincorporated
2856	Riverside Riverside	Hemet/San Jacinto	Unincorporated
2865	Riverside		Unincorporated Unincorporated
2866	Riverside	Hemet/San Jacinto Hemet/San Jacinto	Unincorporated
2867	Riverside	Hemet/San Jacinto	Unincorporated
2868 2871	Riverside Riverside	Hemet/San Jacinto Hemet/San Jacinto	Unincorporated Unincorporated
2873		Hemet/San Jacinto	Unincorporated
2874	Riverside Riverside		Unincorporated
2876		Hemet/San Jacinto Hemet/San Jacinto	
2881	Riverside Riverside	Hemet/San Jacinto	Unincorporated
2882	Riverside	Hemet/San Jacinto	Unincorporated Unincorporated
2883	Riverside	Hemet/San Jacinto	Unincorporated
2884		Hemet/San Jacinto	Unincorporated
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2885	Riverside Riverside	Hemet/San Jacinto	Unincorporated
2885	Riverside	Hemet/San Jacinto	Unincorporated Unincorporated
2885 2886		Hemet/San Jacinto	Unincorporated
2885	Riverside Riverside		Unincorporated Unincorporated
2885 2886 2887	Riverside Riverside Riverside Riverside	Hemet/San Jacinto Hemet/San Jacinto Hemet/San Jacinto	Unincorporated Unincorporated Unincorporated
2885 2886 2887 2888	Riverside Riverside Riverside Riverside Riverside	Hemet/San Jacinto Hemet/San Jacinto Hemet/San Jacinto Hemet/San Jacinto	Unincorporated Unincorporated Unincorporated Unincorporated
2885 2886 2887 2888 2889	Riverside Riverside Riverside Riverside Riverside Riverside	Hemet/San Jacinto Hemet/San Jacinto Hemet/San Jacinto Hemet/San Jacinto Hemet/San Jacinto	Unincorporated Unincorporated Unincorporated Unincorporated Unincorporated Unincorporated
2885 2886 2887 2888 2889 2890 2891	Riverside Riverside Riverside Riverside Riverside Riverside Riverside	Hemet/San Jacinto Hemet/San Jacinto Hemet/San Jacinto Hemet/San Jacinto Hemet/San Jacinto Hemet/San Jacinto	Unincorporated Unincorporated Unincorporated Unincorporated Unincorporated Unincorporated Unincorporated
2885 2886 2887 2888 2889 2890 2891 2892	Riverside	Hemet/San Jacinto Hemet/San Jacinto Hemet/San Jacinto Hemet/San Jacinto Hemet/San Jacinto Hemet/San Jacinto Hemet/San Jacinto	Unincorporated Unincorporated Unincorporated Unincorporated Unincorporated Unincorporated Unincorporated Unincorporated Unincorporated
2885 2886 2887 2888 2889 2890 2891	Riverside Riverside Riverside Riverside Riverside Riverside Riverside	Hemet/San Jacinto Hemet/San Jacinto Hemet/San Jacinto Hemet/San Jacinto Hemet/San Jacinto Hemet/San Jacinto Hemet/San Jacinto Hemet/San Jacinto	Unincorporated Unincorporated Unincorporated Unincorporated Unincorporated Unincorporated Unincorporated
2885 2886 2887 2888 2889 2890 2891 2892 2893	Riverside	Hemet/San Jacinto	Unincorporated
2885 2886 2887 2888 2889 2890 2891 2892 2893 2894	Riverside	Hemet/San Jacinto	Unincorporated
2885 2886 2887 2888 2889 2890 2891 2892 2893 2894 2895	Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside	Hemet/San Jacinto	Unincorporated
2885 2886 2887 2888 2889 2890 2891 2892 2893 2894 2895 2919	Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside	Hemet/San Jacinto	Unincorporated
2885 2886 2887 2888 2889 2890 2891 2892 2893 2894 2895 2919 2920	Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside	Hemet/San Jacinto	Unincorporated
2885 2886 2887 2888 2889 2890 2891 2892 2893 2894 2895 2919 2920 2921	Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside	Hemet/San Jacinto	Unincorporated
2885 2886 2887 2888 2890 2891 2892 2893 2894 2895 2919 2920 2921 2922 2934	Riverside Riverside	Hemet/San Jacinto	Unincorporated
2885 2886 2887 2888 2889 2890 2891 2892 2893 2894 2895 2919 2920 2921 2922 2934 2935	Riverside Riverside	Hemet/San Jacinto	Unincorporated
2885 2886 2887 2888 2889 2890 2891 2892 2893 2894 2895 2919 2920 2921 2922 2935 2935	Riverside Riverside	Hemet/San Jacinto	Unincorporated
2885 2886 2887 2888 2889 2890 2891 2892 2893 2894 2895 2919 2920 2921 2922 2934 2935 2936 2937	Riverside Riverside	Hemet/San Jacinto	Unincorporated
2885 2886 2887 2888 2889 2890 2891 2892 2893 2894 2895 2919 2920 2921 2922 2934 2935 2936 2937 2938	Riverside Riverside	Hemet/San Jacinto	Unincorporated
2885 2886 2887 2888 2889 2890 2891 2892 2893 2894 2895 2919 2920 2921 2922 2934 2935 2936 2937 2937	Riverside	Hemet/San Jacinto	Unincorporated
2885 2886 2887 2888 2899 2890 2891 2892 2893 2894 2895 2919 2920 2921 2922 2934 2935 2936 2937 2938 3194 3195	Riverside	Hemet/San Jacinto	Unincorporated
2885 2886 2887 2888 2889 2890 2891 2892 2893 2894 2895 2919 2920 2921 2922 2934 2935 2936 2937 2938 3194 3195 3196	Riverside	Hemet/San Jacinto	Unincorporated
2885 2886 2887 2888 2890 2891 2892 2893 2894 2895 2919 2920 2921 2934 2935 2936 2937 2938 3194 3195 3196	Riverside	Hemet/San Jacinto	Unincorporated
2885 2886 2887 2888 2899 2890 2891 2892 2893 2894 2895 2919 2920 2921 2922 2934 2935 2936 2937 2938 3194 3195 3196 3197	Riverside	Hemet/San Jacinto	Unincorporated
2885 2886 2887 2888 2890 2891 2892 2893 2894 2895 2919 2920 2921 2922 2935 2936 2937 2936 2937 3194 3195 3197 3197	Riverside	Hemet/San Jacinto	Unincorporated
2885 2886 2887 2888 2899 2890 2891 2892 2893 2894 2895 2919 2920 2921 2922 2934 2935 2936 2937 2938 3194 3195 3196 3197	Riverside	Hemet/San Jacinto	Unincorporated

332 333 334 335	Riverside	WRCOG Zone	
334	Riverside	Northwest Northwest	Corona Corona
	Riverside	Northwest	Corona
336	Riverside Riverside	Northwest Northwest	Corona
337 338	Riverside Riverside	Northwest Northwest	Corona Corona
339 340	Riverside Riverside	Northwest Northwest	Corona
341 342	Riverside	Northwest	Corona
343	Riverside Riverside	Northwest Northwest	Corona
344 345	Riverside Riverside	Northwest Northwest	Corona Corona
346 347	Riverside Riverside	Northwest Northwest	Corona Corona
348	Riverside	Northwest	Corona
349 350	Riverside Riverside	Northwest Northwest	Corona Corona
351 352	Riverside Riverside	Northwest Northwest	Corona
353	Riverside	Northwest	Corona
354 355	Riverside Riverside	Northwest Northwest	Corona
356 357	Riverside Riverside	Northwest Northwest	Corona Corona
358 359	Riverside Riverside	Northwest Northwest	Corona Corona
360	Riverside	Northwest	Corona
361 362	Riverside Riverside	Northwest Northwest	Corona
363 364	Riverside Riverside	Northwest Northwest	Corona
365	Riverside	Northwest	Corona
366 367	Riverside Riverside	Northwest Northwest	Corona
368 369	Riverside Riverside	Northwest Northwest	Corona
370 371	Riverside Riverside	Northwest Northwest	Corona Corona
372	Riverside	Northwest	Corona
373 374	Riverside Riverside	Northwest Northwest	Corona
375 376	Riverside Riverside	Northwest Northwest	Corona Corona
377 378	Riverside Riverside	Northwest Northwest	Corona Corona
379	Riverside	Northwest	-
380 381	Riverside Riverside	Northwest Northwest	Corona Corona
382 383	Riverside Riverside	Northwest Northwest	Corona Corona
384	Riverside	Northwest	Corona
385 386	Riverside Riverside	Northwest Northwest	Corona
387 388	Riverside Riverside	Northwest Northwest	Corona Corona
389 390	Riverside Riverside	Northwest Northwest	Corona Corona
391	Riverside	Northwest	Corona
392 393	Riverside Riverside	Northwest Northwest	Corona Corona
394 395	Riverside Riverside	Northwest Northwest	Corona
396 397	Riverside Riverside	Northwest Northwest	Corona Corona
398	Riverside	Northwest	Corona
399 400	Riverside Riverside	Northwest Northwest	Corona
401 402	Riverside Riverside	Northwest Northwest	Corona
403 404	Riverside Riverside	Northwest	Corona
405	Riverside	Northwest Northwest	Corona Corona
406 407	Riverside Riverside	Northwest Northwest	Corona Corona
408 409	Riverside Riverside	Northwest Northwest	Corona Corona
410	Riverside	Northwest	Corona
411	Riverside Riverside	Northwest Northwest	Corona Corona
413 414	Riverside Riverside	Northwest Northwest	Corona
415 416	Riverside	Northwest	Corona
417	Riverside Riverside	Northwest Northwest	Corona
418 419	Riverside Riverside	Northwest Northwest	Corona
420 421	Riverside Riverside	Northwest Northwest	Corona Corona
422	Riverside	Northwest	Corona
423 424	Riverside Riverside	Northwest Northwest	Corona
425 426	Riverside Riverside	Northwest Northwest	Corona Corona
427 428	Riverside	Northwest	Corona Corona
429	Riverside Riverside	Northwest Northwest	Corona
430 431	Riverside Riverside	Northwest Northwest	Corona
432	Riverside Riverside	Northwest	Corona Corona
433		Northwest	
434	Riverside	Northwest	Corona
434 435 436	Riverside Riverside	Northwest Northwest Northwest	Corona Corona
434 435 436 437 438	Riverside Riverside Riverside Riverside	Northwest Northwest Northwest Northwest Northwest	Corona Corona Corona Corona
434 435 436 437 438 439	Riverside Riverside Riverside Riverside Riverside	Northwest Northwest Northwest Northwest Northwest Northwest	Corona Corona Corona Corona Corona
434 435 436 437 438 439 440 441	Riverside Riverside Riverside Riverside Riverside Riverside Riverside	Northwest Northwest Northwest Northwest Northwest Northwest Northwest Northwest Northwest	Corona
434 435 436 437 438 439 440 441 442 443	Riverside Riverside Riverside Riverside Riverside Riverside	Northwest Northwest Northwest Northwest Northwest Northwest Northwest Northwest Northwest Northwest Northwest Northwest	Corona
434 435 436 437 438 439 440 441 442 443	Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside	Northwest Northwest Northwest Northwest Northwest Northwest Northwest Northwest Northwest Northwest Northwest Northwest Northwest	Corona
434 435 436 437 438 439 440 441 442 443 444 445	Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside	Northwest Northwest Northwest Northwest Northwest Northwest Northwest Northwest Northwest Northwest Northwest Northwest Northwest Northwest Northwest Northwest Northwest Northwest Northwest	Corona
434 435 436 437 438 439 440 441 442 443 444 445 446 447	Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside	Northwest Northwest	Corona
434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450	Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside	Northwest Northwest	Corona
434 435 436 437 438 439 440 441 442 443 444 445 446 447	Riverside Riverside	Northwest Northwest	Corona
434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453	Riverside Riverside	Northwest Northw	Corona
434 435 436 437 438 439 440 441 442 443 444 445 446 447 450 451 452 453 454 455	Riverside	Northwest	Corona
434 435 436 437 438 439 440 441 442 443 444 445 446 447 450 451 452 453 454 455 456 457	Riverside Riverside	Northwest	Corona
434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 450 451 452 453 454 455 455 456 457	Riverside Riverside	Northwest	Corona
434 435 436 437 438 439 440 441 442 443 444 445 446 447 451 452 453 454 455 456 457 458 459 460	Riverside Riverside	Northwest	Corona
434 435 436 437 438 439 440 441 442 443 444 445 451 451 451 452 453 454 454 455 454 456 457 458 459 461 461	Riverside Riverside	Northwest	Corona
434 435 436 437 438 439 440 441 442 443 444 445 446 447 450 451 453 454 455 456 457 458 459 460 461	Riverside Riverside	Northwest	Corona
434 435 437 438 439 440 441 442 443 444 445 450 451 451 452 453 454 455 454 457 458 463 463 463 464 463	Riverside Riverside	Northwest	Corona
434 435 437 438 439 440 441 442 443 444 445 455 455 456 456 466 467	Riverside Riverside	Northwest	Corona
434 435 436 437 438 439 440 441 442 443 444 445 445 450 451 451 452 453 454 464 465 464 465 466 467 468	Riverside	Northwest	Corona
434 435 436 437 438 439 439 440 441 442 443 444 444 445 450 451 451 452 452 453 454 464 465 464 464 465	Riverside Riverside	Northwest	Corona
434 435 436 437 438 439 440 441 442 443 444 445 445 451 452 453 454 462 462 463 464 465 467 468 469 470 472	Riverside	Northwest	Corona
434 435 436 437 438 439 440 441 442 443 444 445 445 445 451 451 452 453 454 461 462 463 464 463 464 465 467 468 469 470 472 472 472 473 474	Riverside	Northwest	Corona
434 435 436 437 438 439 440 441 441 442 443 444 445 446 451 451 452 452 453 454 464 463 464 463 464 464 463 464 464 46	Riverside	Northwest	Corona
434 435 436 437 438 439 440 441 442 443 444 445 445 446 451 451 451 451 451 451 451 451 451 451	Riverside	Northwest	Corona
434 435 436 437 438 439 440 441 442 443 444 445 445 450 451 451 452 454 454 454 457 458 459 459 460 461 463 464 465 467 477 477 477 477	Riverside	Northwest	Corona
434 435 436 437 438 439 440 441 442 443 444 445 445 445 445 445 451 452 453 454 461 462 463 464 467 470 477 477 477 477 477 477 477 477 481	Riverside	Northwest	Corona
434 435 436 437 438 439 440 441 442 443 444 445 445 446 451 451 452 453 454 464 467 472 473 474 477 477 477 477 479 480 481 481 481 481	Riverside	Northwest Northw	Corona
434 435 436 437 438 439 439 440 441 442 443 444 444 445 450 451 451 452 452 453 454 464 465 467 467 477 477 478 477 477 478 480 481 477 477 478 480 481 481 482 483 483 483 483 483 483 483 483 483 483	Riverside	Northwest Northw	Corona
434 435 436 437 438 439 440 441 442 443 444 445 450 451 451 451 452 452 453 454 454 457 458 459 459 459 459 459 459 459 459 459 459	Riverside	Northwest	Corona
434 435 436 437 438 439 440 441 442 443 444 445 445 451 451 451 452 452 453 454 454 457 457 457 457 457 457 457 457	Riverside	Northwest Northw	Corona
434 435 436 437 438 439 440 441 442 443 444 445 445 451 452 451 452 453 454 467 470 471 472 473 474 477 477 478 481 481 482 483 484 484 485 486 487 487 488 488	Riverside	Northwest Northw	Corona
434 435 436 437 438 439 440 441 442 443 444 445 445 445 445 447 450 450 450 450 461 462 463 464 464 465 467 470 471 472 473 474 477 477 478 481 481 482 483 484 484 485 486 487 487 487 488 486 487 487 488 488 488 488 489 499 499 499 499 499	Riverside	Northwest Northw	Corona
434 435 436 437 438 439 439 440 441 442 443 444 445 445 445 450 451 451 452 452 453 454 465 466 467 470 471 472 473 474 477 478 481 482 483 484 487 487 487 487 487 487 487 487 487	Riverside	Northwest Northw	Corona
434 435 436 437 438 439 439 440 441 442 443 444 445 450 451 451 452 452 453 454 454 457 458 459 460 461 477 477 478 477 477 478 481 482 483 484 484 485 487 487 487 487 487 487 487 487 487 487	Riverside	Northwest Northw	Corona
434 435 436 437 438 438 439 440 441 441 445 446 447 448 449 450 450 450 450 450 461 461 462 463 464 463 464 464 465 466 467 470 470 470 471 472 473 474 483 484 485 486 487 489 499 499 499 499 499 499 499 499 499	Riverside	Northwest Northw	Corona
434 435 436 437 438 438 439 440 441 441 442 443 444 445 446 451 451 451 451 451 451 451 451 451 451	Riverside	Northwest Northw	Corona
434 435 436 437 438 438 439 440 441 441 442 443 444 445 446 447 447 448 450 450 450 450 450 450 450 450 450 450	Riverside	Northwest Northw	Corona
434 435 436 437 438 439 440 441 442 443 444 445 445 445 445 447 451 452 453 454 464 467 470 471 472 473 474 477 477 478 481 481 482 483 484 484 485 486 487 487 487 487 487 487 487 487 487 487	Riverside	Northwest Northw	Corona C
434 435 436 437 438 439 440 441 441 442 443 444 445 445 446 451 451 452 452 453 454 464 474 488 487 488 487 488 489 489 489 489 499 499 499 499 499	Riverside	Northwest Northw	Corona
434 435 436 437 438 438 439 440 441 441 442 443 444 445 445 447 447 448 450 450 450 450 450 450 450 450 450 450	Riverside	Northwest Northw	Corona
434 435 436 437 438 438 439 440 441 441 445 446 447 448 449 450 450 450 451 451 451 452 452 453 454 467 471 472 473 474 474 475 477 477 477 477 477 477 477	Riverside	Northwest Northw	Corona
434 435 436 437 438 439 440 441 442 443 444 445 445 446 451 451 452 453 454 454 454 455 456 457 457 458 458 459 459 459 459 459 459 459 459 459 459	Riverside	Northwest Northw	Corona
434 435 436 437 438 438 439 440 441 442 443 444 445 445 446 447 448 450 450 450 450 461 461 462 463 464 464 464 465 467 468 469 469 469 469 469 469 469 469 469 469	Riverside	Northwest Northw	Corona
434 435 436 437 438 438 439 440 441 441 442 443 444 445 445 446 447 448 450 450 450 451 451 452 453 454 464 474 485 487 487 488 487 488 489 489 489 490 491 492 493 494 494 495 496 497 497 498 497 497 497 497 497 497 497 497 497 497	Riverside	Northwest Northw	Corona
434 435 436 437 438 439 440 441 441 445 446 447 448 451 451 451 451 451 452 452 453 454 454 454 455 456 457 457 458 459 459 459 459 459 459 459 459 459 459	Riverside	Northwest Northw	Corona
434 435 436 437 438 439 440 441 442 443 444 445 450 450 451 451 451 452 452 453 454 464 465 467 467 477 478 488 488 489 489 489 499 499 499 499 500 500 500 500 500 500 500 500 500 5	Riverside	Northwest Northw	Corona

520 521 522 523			
522	County Riverside	WRCOG Zone Northwest	Corona
	Riverside Riverside	Northwest Northwest	Corona Corona
524	Riverside Riverside	Northwest Northwest	Corona Corona
525	Riverside	Northwest	Corona
526 527	Riverside Riverside	Northwest Northwest	Corona Corona
528 529	Riverside Riverside	Northwest Northwest	Corona Corona
530 531	Riverside Riverside	Northwest Northwest	Corona Corona
532	Riverside	Northwest	Corona
533 534	Riverside Riverside	Northwest Northwest	Corona Corona
535 536	Riverside Riverside	Northwest Northwest	Corona Corona
537 538	Riverside	Northwest	Corona
539	Riverside Riverside	Northwest Northwest	Corona Corona
540 541	Riverside Riverside	Northwest Northwest	Corona Corona
542	Riverside	Northwest	Corona
543 544	Riverside Riverside	Northwest Northwest	Corona Corona
545 546	Riverside Riverside	Northwest Northwest	Corona Corona
547 548	Riverside	Northwest	Corona
549	Riverside Riverside	Northwest Northwest	Corona Corona
550 551	Riverside Riverside	Northwest Northwest	Corona Corona
552 553	Riverside Riverside	Northwest Northwest	Corona Corona
554	Riverside	Northwest	Corona
555 556	Riverside Riverside	Northwest Northwest	Corona Corona
557 558	Riverside Riverside	Northwest Northwest	Corona
559	Riverside	Northwest	Corona
560 561	Riverside Riverside	Northwest Northwest	Corona Corona
562 563	Riverside Riverside	Northwest Northwest	Corona Corona
564	Riverside	Northwest	Corona
565 566	Riverside Riverside	Northwest Northwest	Corona Corona
567 568	Riverside Riverside	Northwest Northwest	Corona Corona
569	Riverside	Northwest	Corona
603 604	Riverside Riverside	Northwest Northwest	Eastvale Eastvale
605	Riverside	Northwest Northwest	Eastvale
607	Riverside Riverside	Northwest	Eastvale Eastvale
608 609	Riverside Riverside	Northwest Northwest	Eastvale Eastvale
610	Riverside	Northwest	Eastvale
612	Riverside Riverside	Northwest Northwest	Eastvale Eastvale
613 614	Riverside Riverside	Northwest Northwest	Eastvale Eastvale
615	Riverside	Northwest	Eastvale
616	Riverside Riverside	Northwest Northwest	Eastvale Eastvale
618 619	Riverside Riverside	Northwest Northwest	Eastvale Eastvale
620 621	Riverside Riverside	Northwest Northwest	Eastvale Eastvale
622	Riverside	Northwest	Eastvale
623 624	Riverside Riverside	Northwest Northwest	Eastvale Eastvale
625 626	Riverside Riverside	Northwest Northwest	Eastvale Eastvale
627	Riverside	Northwest	Eastvale
628	Riverside Riverside	Northwest Northwest	Eastvale Eastvale
630	Riverside Riverside	Northwest Northwest	Eastvale Eastvale
632	Riverside	Northwest	Eastvale
633 634	Riverside Riverside	Northwest Northwest	Eastvale Eastvale
635 636	Riverside Riverside	Northwest Northwest	Eastvale Eastvale
637	Riverside	Northwest	Eastvale
638 639	Riverside Riverside	Northwest Northwest	Eastvale Eastvale
640 641	Riverside Riverside	Northwest Northwest	Eastvale Eastvale
842	Riverside	Northwest	Jurupa Valley
843 844	Riverside Riverside	Northwest Northwest	Jurupa Valley Jurupa Valley
845 846	Riverside Riverside	Northwest Northwest	Jurupa Valley Jurupa Valley
847	Riverside	Northwest	Jurupa Valley
848 849	Riverside Riverside	Northwest Northwest	Jurupa Valley Jurupa Valley
850 851	Riverside Riverside	Northwest Northwest	Jurupa Valley Jurupa Valley
852	Riverside	Northwest	Jurupa Valley
853 854	Riverside Riverside	Northwest Northwest	Jurupa Valley Jurupa Valley
855 856	Riverside Riverside	Northwest Northwest	Jurupa Valley Jurupa Valley
857	Riverside	Northwest	Jurupa Valley
858 859	Riverside Riverside	Northwest Northwest	Jurupa Valley Jurupa Valley
860	Riverside	Northwest Northwest	Jurupa Valley Jurupa Valley
	Divorido		Junua Valley
861 862	Riverside Riverside	Northwest	Jurupa Valley
862 863 864	Riverside Riverside Riverside	Northwest Northwest	Jurupa Valley Jurupa Valley
862 863 864 865	Riverside Riverside Riverside Riverside	Northwest Northwest Northwest	Jurupa Valley Jurupa Valley Jurupa Valley
862 863 864 865 866 867	Riverside Riverside Riverside Riverside Riverside Riverside	Northwest Northwest Northwest Northwest Northwest	Jurupa Valley Jurupa Valley Jurupa Valley Jurupa Valley Jurupa Valley Jurupa Valley
862 863 864 865 866	Riverside Riverside Riverside Riverside Riverside	Northwest Northwest Northwest Northwest	Jurupa Valley
862 863 864 865 866 867 868 869 870	Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside	Northwest Northwest Northwest Northwest Northwest Northwest Northwest Northwest	Jurupa Valley
862 863 864 865 866 867 868 869 870 871 872	Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside	Northwest Northwest Northwest Northwest Northwest Northwest Northwest Northwest Northwest Northwest Northwest	Jurupa Valley
862 863 864 865 866 867 868 869 870 871 872 873	Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside	Northwest Northwest Northwest Northwest Northwest Northwest Northwest Northwest Northwest Northwest Northwest Northwest Northwest Northwest	Jurupa Valley
862 863 864 865 866 867 868 869 870 871 872 873	Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside	Northwest Northwest Northwest Northwest Northwest Northwest Northwest Northwest Northwest Northwest Northwest Northwest Northwest Northwest Northwest Northwest Northwest Northwest Northwest	Jurupa Valley
862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877	Riverside Riverside	Northwest Northwest	Jurupa Valley
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862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881	Riverside	Northwest Northwest	Jurupa Valley
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862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 880 881 882 883 884 885 884	Riverside Riverside	Northwest	Jurupa Valley
862 863 864 865 866 867 868 870 871 872 873 874 875 876 877 880 881 882 883 884 884 885	Riverside Riverside	Northwest	Jurupa Valley
862 863 864 865 866 868 869 870 871 872 873 874 875 876 877 880 881 882 883 884 885 886 887 888 888 888 888 888	Riverside Riverside	Northwest	Jurupa Valley
862 863 864 865 866 868 867 870 871 872 873 874 875 876 877 878 879 881 882 883 884 885 886 887 881 882 883 884 885 885 886 887 887 888 888 888 888 888	Riverside Riverside	Northwest	Jurupa Valley
862 863 864 865 866 866 867 868 869 870 871 872 873 874 875 876 877 880 881 882 883 884 885 886 887 888 889 889 880 881 881 882 883 884 885 885 886 887 886 887 887 887 887 887	Riverside Riverside	Northwest	Jurupa Valley
862 863 864 865 866 867 868 869 870 871 872 873 874 875 877 878 880 881 881 882 883 884 885 886 887 888 887 888 889 889 889 889	Riverside Riverside	Northwest	Jurupa Valley
862 863 864 865 866 867 868 870 871 874 875 876 877 880 887 881 882 883 884 885 886 887 888 889 881 881 882 883 884 885 885 886 887 887 888 887 888 888 888	Riverside	Northwest	Jurupa Valley
862 863 864 865 866 867 868 870 871 873 874 877 878 879 880 881 882 883 884 885 886 887 887 888 888 888 889 889 889	Riverside Riverside	Northwest	Jurupa Valley
862 863 864 865 867 868 867 868 870 871 872 873 874 875 876 881 880 881 882 883 884 887 885 886 887 881 881 882 883 884 885 885 886 887 887 888 888 889 880 880 881 881 882 883 884 885 885 886 887 887 887 888 888 889 880 880 880 880 880	Riverside	Northwest	Jurupa Valley
862 863 864 865 866 867 868 870 872 873 874 875 876 887 888 887 888 889 889 889 889	Riverside Riverside	Northwest	Jurupa Valley
862 863 864 865 867 870 872 873 874 875 878 877 878 880 881 881 882 883 884 885 887 880 881 881 882 883 884 885 885 886 887 887 887 888 888 888 888	Riverside	Northwest	Jurupa Valley
862 863 864 865 867 870 872 873 874 875 877 880 877 880 887 881 882 883 884 885 887 880 881 882 883 884 885 887 880 887 880 881 881 882 883 884 885 885 886 887 887 880 887 880 881 882 883 884 885 885 886 887 887 880 880 880 880 880 880	Riverside	Northwest	Jurupa Valley
8623 863 864 865 867 872 878 878 879 879 891 892 893 894 895 897 897 898 897 897 898 897 897	Riverside	Northwest	Jurupa Valley
8623 863 864 865 866 867 872 873 874 875 876 877 878 879 879	Riverside	Northwest	Jurupa Valley
8623 863 864 865 866 867 867 867 867 867 867 867 867 867	Riverside	Northwest	Jurupa Valley
862 863 864 865 866 867 868 869 870 871 873 878 878 877 878 880 887 881 882 887 881 882 883 884 887 886 887 887 880 887 880 887 880 887 880 887 880 887 880 887 880 880	Riverside	Northwest Northw	Jurupa Valley Norco Norco Norco Norco
862 863 864 865 866 867 871 872 873 874 878 878 879 880 881 887 881 887 888 887 888 887 888 887 888 889 889	Riverside	Northwest Northw	Jurupa Valley
8623 863 864 865 866 867 867 867 867 867 867 867 867 867	Riverside	Northwest Northw	Jurupa Valley
8623 863 864 865 866 867 867 867 867 867 867 867 867 867	Riverside	Northwest	Jurupa Valley
862 863 864 867 866 867 870 871 872 873 878 879 879 879 871 878 879 871 872 873 874 875 875 876 876 877 878 878 877 878 879 878 879 879 879	Riverside	Northwest	Jurupa Valley
8623 863 864 865 866 867 872 873 878 879 879 880 8871 8872 8873 8874 8875 8875 8876 8877 878 880 8871 8879 880 891 8871 8872 878 880 887 878 878 878 878 878 878 878	Riverside	Northwest	Jurupa Valley Norco
8623 863 864 865 866 867 867 867 867 867 867 867 867 867	Riverside	Northwest	Jurupa Valley Ju
8623 863 864 865 866 867 867 867 867 867 867 867 867 867	Riverside	Northwest Northw	Jurupa Valley
862 863 864 867 866 867 871 872 873 874 875 878 879 879 871 878 875 878 879 879 879 879 879 879 879 879 879	Riverside	Northwest	Jurupa Valley Ju
862 863 864 865 866 867 867 867 867 867 867 867 867 867	Riverside	Northwest Northw	Jurupa Valley Ju
862 863 864 865 866 867 867 867 867 867 867 867 867 867	Riverside	Northwest Northw	Jurupa Valley Ju
862 863 864 865 866 867 868 869 870 871 873 874 875 876 877 878 878 879 880 881 882 887 881 882 883 884 887 887 880 887 881 882 883 884 887 887 880 880	Riverside	Northwest Northw	Jurupa Valley Ju
862 863 864 867 866 867 868 869 871 872 873 874 875 876 877 878 878 879 880 881 882 883 884 887 881 882 883 884 887 881 882 883 884 887 887 880 881 882 883 884 887 887 880 881 882 883 884 887 887 887 880 881 882 883 884 885 886 887 887 887 887 887 887 888 887 888 887 888 887 888 889 889	Riverside	Northwest Northw	Jurupa Valley Ju

TAZ	County	WRCOG Zone	City
1910	Riverside	Northwest	Riverside
1911	Riverside	Northwest	Riverside
1912	Riverside	Northwest	Riverside
1913	Riverside	Northwest	Riverside
1914	Riverside	Northwest	Riverside
1915	Riverside	Northwest	Riverside
1916	Riverside	Northwest	Riverside
1917	Riverside	Northwest	Riverside
1918	Riverside	Northwest	Riverside
1919	Riverside	Northwest	Riverside
1920	Riverside	Northwest	Riverside
1921	Riverside	Northwest	Riverside
1922	Riverside	Northwest	Riverside
1923 1924 1925	Riverside Riverside	Northwest Northwest	Riverside Riverside
1926	Riverside	Northwest	Riverside
	Riverside	Northwest	Riverside
1927	Riverside	Northwest	Riverside
1928	Riverside	Northwest	Riverside
1929	Riverside	Northwest	Riverside
1930	Riverside	Northwest	Riverside
1931	Riverside	Northwest	Riverside
1932	Riverside	Northwest	Riverside
1933	Riverside	Northwest	Riverside
	Riverside	Northwest	Riverside
1934 1935 1936	Riverside Riverside	Northwest Northwest	Riverside Riverside
1937	Riverside	Northwest	Riverside
1938	Riverside	Northwest	Riverside
1939	Riverside	Northwest	Riverside
1940	Riverside	Northwest	Riverside
1941	Riverside	Northwest	Riverside
	Riverside	Northwest	Riverside
1943	Riverside	Northwest	Riverside
1944	Riverside		Riverside
1945 1946	Riverside	Northwest Northwest	Riverside
1947	Riverside	Northwest	Riverside
	Riverside	Northwest	Riverside
1948 1949 1950	Riverside Riverside	Northwest Northwest	Riverside Riverside
1951	Riverside	Northwest	Riverside
	Riverside	Northwest	Riverside
1952	Riverside	Northwest	Riverside
1953	Riverside	Northwest	Riverside
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1968	Riverside	Northwest	Riverside
	Riverside	Northwest	Riverside
1969	Riverside	Northwest	Riverside
	Riverside	Northwest	Riverside
1971	Riverside	Northwest	Riverside
1972	Riverside	Northwest	Riverside
1973	Riverside	Northwest	Riverside
1974	Riverside	Northwest	Riverside
1975	Riverside	Northwest	Riverside
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1981	Riverside	Northwest	Riverside
1982	Riverside	Northwest	Riverside
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1987	Riverside	Northwest	Riverside
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2008	Riverside	Northwest	Riverside
	Riverside	Northwest	Riverside
2010	Riverside	Northwest	Riverside
	Riverside	Northwest	Riverside
2012	Riverside	Northwest	Riverside
2014	Riverside	Northwest	Riverside
	Riverside	Northwest	Riverside
2016	Riverside	Northwest	Riverside
	Riverside	Northwest	Riverside
2017	Riverside	Northwest	Riverside
	Riverside	Northwest	Riverside
2019	Riverside	Northwest	Riverside
2020	Riverside	Northwest	Riverside
2021	Riverside	Northwest	Riverside
2022	Riverside	Northwest	Riverside
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2051	Riverside	Northwest	Riverside
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2053	Riverside	Northwest	Riverside
2054	Riverside	Northwest	Riverside
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2056	Riverside	Northwest	Riverside
2057	Riverside	Northwest	Riverside
2058 2059 2060	Riverside Riverside	Northwest Northwest	Riverside Riverside
2061	Riverside	Northwest	Riverside
	Riverside	Northwest	Riverside
2062	Riverside	Northwest	Riverside
	Riverside	Northwest	Riverside
2064	Riverside	Northwest	Riverside
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2066	Riverside	Northwest	Riverside
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2078	Riverside	Northwest	Riverside
	Riverside	Northwest	Riverside
2080	Riverside	Northwest	Riverside
	Riverside	Northwest	Riverside
2082	Riverside	Northwest	Riverside
	Riverside	Northwest	Riverside
2083 2084 2085	Riverside Riverside	Northwest Northwest	Riverside Riverside
2085 2086 2087	Riverside	Northwest	Riverside Riverside
2088	Riverside Riverside	Northwest Northwest	Riverside
2089	Riverside	Northwest	Riverside

2090	County Riverside	WRCOG Zone Northwest	City Riverside
2091 2092	Riverside Riverside	Northwest Northwest	Riverside Riverside
2093 2094	Riverside Riverside	Northwest Northwest	Riverside Riverside
2095 2096	Riverside Riverside	Northwest Northwest	Riverside Riverside
2097 2098	Riverside Riverside	Northwest Northwest	Riverside Riverside
2099 2100 2101	Riverside Riverside	Northwest Northwest	Riverside Riverside
2102	Riverside Riverside Riverside	Northwest Northwest	Riverside Riverside Riverside
2103 2104 2105	Riverside Riverside	Northwest Northwest	Riverside Riverside
2106 2107	Riverside Riverside	Northwest Northwest	Riverside Riverside
2108	Riverside Riverside	Northwest Northwest	Riverside Riverside
2110 2111	Riverside Riverside	Northwest Northwest	Riverside Riverside
2112 2113	Riverside Riverside	Northwest Northwest	Riverside Riverside
2114 2115	Riverside Riverside	Northwest Northwest	Riverside Riverside
2116	Riverside Riverside	Northwest Northwest	Riverside Riverside
2118 2119 2120	Riverside Riverside Riverside	Northwest Northwest	Riverside Riverside Riverside
2121	Riverside Riverside	Northwest Northwest	Riverside Riverside
2123	Riverside Riverside	Northwest Northwest	Riverside Riverside
2125	Riverside Riverside	Northwest Northwest	Riverside Riverside
2130 2131 2132	Riverside Riverside	Northwest Northwest	Riverside Riverside
2133	Riverside Riverside	Northwest Northwest	Riverside Riverside
2134 2321	Riverside Riverside	Northwest Northwest	Riverside Unincorporated
2322 2370	Riverside Riverside	Northwest Northwest	Unincorporated Unincorporated
2371 2372	Riverside Riverside	Northwest Northwest	Unincorporated Unincorporated
2373 2374	Riverside Riverside	Northwest Northwest	Unincorporated Unincorporated
2375 2376 2377	Riverside Riverside Riverside	Northwest Northwest	Unincorporated Unincorporated Unincorporated
23/7 2378 2379	Riverside Riverside	Northwest Northwest Northwest	Unincorporated Unincorporated Unincorporated
2380 2381	Riverside Riverside	Northwest Northwest	Unincorporated Unincorporated
2382 2383	Riverside Riverside	Northwest Northwest	Unincorporated Unincorporated
2384 2385	Riverside Riverside	Northwest Northwest	Unincorporated Unincorporated
2386 2387	Riverside Riverside	Northwest Northwest	Unincorporated Unincorporated
2388 2389	Riverside Riverside	Northwest Northwest	Unincorporated Unincorporated
2390 2391	Riverside Riverside	Northwest Northwest	Unincorporated Unincorporated
2392 2393 2394	Riverside Riverside Riverside	Northwest Northwest Northwest	Unincorporated Unincorporated Unincorporated
2397	Riverside Riverside	Northwest Northwest	Unincorporated Unincorporated
2399	Riverside Riverside	Northwest Northwest	Unincorporated Unincorporated Unincorporated
2401	Riverside Riverside	Northwest Northwest	Unincorporated Unincorporated
2403 2404	Riverside Riverside	Northwest Northwest	Unincorporated Unincorporated
2405 2406	Riverside Riverside	Northwest Northwest	Unincorporated Unincorporated
2407 2408	Riverside Riverside	Northwest Northwest	Unincorporated Unincorporated
2409 2410	Riverside Riverside	Northwest Northwest	Unincorporated Unincorporated
2411	Riverside Riverside	Northwest Northwest	Unincorporated Unincorporated
2413 2586 2587	Riverside Riverside	Northwest Northwest	Unincorporated Unincorporated
2588 2589	Riverside Riverside Riverside	Northwest Northwest Northwest	Unincorporated Unincorporated Unincorporated
2590 2591	Riverside Riverside	Northwest Northwest	Unincorporated Unincorporated
2592 2593	Riverside Riverside	Northwest Northwest	Unincorporated Unincorporated
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2596 2597	Riverside Riverside	Northwest Northwest	Unincorporated Unincorporated
2598 2599	Riverside Riverside	Northwest Northwest	Unincorporated Unincorporated
2600 2601 2602	Riverside Riverside	Northwest Northwest	Unincorporated Unincorporated
2603 2604	Riverside Riverside Riverside	Northwest Northwest	Unincorporated Unincorporated Unincorporated
2605 2606	Riverside Riverside	Northwest Northwest	Unincorporated Unincorporated
2607 2664	Riverside Riverside	Northwest Northwest	Unincorporated Unincorporated
2666 2671	Riverside Riverside	Northwest Northwest	Unincorporated Unincorporated
2672 2680	Riverside Riverside	Northwest Northwest	Unincorporated
2681 2705		Northwest	Unincorporated
2707	Riverside Riverside Riverside	Northwest	Unincorporated Unincorporated
2706 2707 2726			Unincorporated Unincorporated Unincorporated Unincorporated
2706 2707 2726 2730 2731	Riverside Riverside Riverside	Northwest Northwest Northwest	Unincorporated Unincorporated Unincorporated Unincorporated Unincorporated Unincorporated Unincorporated Unincorporated
2706 2707 2726 2730 2731 2732 2734	Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside	Northwest Northwest Northwest Northwest Northwest Northwest Northwest Northwest	Unincorporated
2706 2707 2726 2730 2731 2732 2734 2735 2736	Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside	Northwest Northwest Northwest Northwest Northwest Northwest Northwest Northwest Northwest Northwest Northwest	Unincorporated
2706 2707 2726 2730 2731 2732 2734 2735 2736 2737	Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside	Northwest Northwest Northwest Northwest Northwest Northwest Northwest Northwest Northwest Northwest Northwest Northwest Northwest Northwest Northwest	Unincorporated
2706 2707 2726 2730 2731 2732 2734 2735 2736 2737 2738 2739 2740	Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside	Northwest Northwest	Unincorporated
2706 2707 2726 2730 2731 2732 2734 2735 2736 2737 2738 2738	Riverside Riverside	Northwest	Unincorporated
2706 2707 2726 2730 2731 2732 2734 2735 2736 2737 2738 2739 2740 2742 2743 2742 2743	Riverside Riverside	Northwest Northwest	Unincorporated
2706 2707 2728 2730 2731 2732 2734 2735 2736 2737 2738 2739 2740 2741 2742 2743 2750 2750 2750	Riverside Riverside	Northwest	Unincorporated
2706 2707 2726 2730 2731 2732 2734 2735 2736 2737 2738 2739 2740 2741 2742 2742 2749 2750 2751 2763	Riverside Riverside	Northwest	Unincorporated
2706 2707 2728 2730 2731 2732 2734 2735 2736 2737 2738 2737 2740 2741 2742 2742 2743 2749 2749 2740 2741 2742 2742 2743 2749 2745 2750 2750 2750 2750 2750 2750 2750 275	Riverside Riverside	Northwest	Unincorporated
2706 2707 2707 2726 2730 2731 2732 2734 2735 2736 2737 2739 2740 2741 2742 2743 2749 2750 2750 2750 2757 2763 2763 2765 2765 2767	Riverside Riverside	Northwest	Unincorporated
2706 2707 2726 2730 2731 2732 2733 2735 2736 2737 2738 2739 2740 2741 2742 2742 2743 2749 2750 2763 2764 2764 2765 2766 2766 2767	Riverside Riverside	Northwest	Unincorporated
2706 2707 2726 2730 2731 2732 2734 2735 2737 2737 2737 2740 2741 2742 2743 2749 2740 2741 2742 2743 2749 2740 275 2763 2768 2768 2768 2768 2770 2771 2772 2772 2773 2774	Riverside Rivers	Northwest	Unincorporated
2706 2707 2707 2728 2730 2731 2732 2734 2735 2736 2737 2740 2741 2742 2743 2749 2750 2763 2763 2765 2766 2767 2768 2770 2771 2772 2773 2774 2772 2773	Riverside Rivers	Northwest	Unincorporated
2706 2707 2707 2728 2730 2731 2732 2734 2735 2735 2738 2739 2740 2741 2742 2743 2742 2743 2745 2746 2755 2765 2765 2767 2776 2770 2770 2771 2772 2773 2774 2775 2776 2777 2777 2777 2777	Riverside Rivers	Northwest	Unincorporated
2706 2707 2707 2726 2730 2731 2732 2735 2737 2737 2741 2742 2742 2743 2744 2749 2740 275 2766 2767 2776 2777 2772 2773 2775 2776	Riverside	Northwest	Unincorporated
2706 2707 2707 2726 2730 2731 2732 2734 2735 2736 2737 2741 2742 2743 2749 2749 2740 2743 2749 2749 2740 2747 2748 2749 2749 2749 2749 2749 2749 2749 2749	Riverside	Northwest	Unincorporated
2706 2707 2707 2726 2730 2731 2732 2734 2735 2736 2737 2738 2739 2740 2741 2742 2743 2743 2745 2745 275 275 275 275 275 275 276 2775 2775	Riverside	Northwest	Unincorporated
2706 2707 2726 2730 2731 2732 2734 2735 2736 2737 2738 2739 2740 2741 2742 2743 2744 2745 2751 2765 2765 2767 2777 2772 2772 2773 2774 2774 2772 2772	Riverside	Northwest	Unincorporated
2706 2707 2707 2726 2730 2731 2732 2734 2735 2736 2737 2738 2739 2740 2741 2742 2743 2749 2750 2751 2764 2765 2766 2767 2778 2778 2778 2778 2778 2778 2778 2778 2778 2779 2779 2779 2779 2779 2779 2779 2779 2779 2779 2799 2800 2803 2805	Riverside	Northwest Northw	Unincorporated
2706 2707 2707 2707 2726 2730 2731 2732 2734 2735 2738 2738 2739 2740 2741 2742 2743 2749 2750 2751 2762 2763 2764 2765 2767 2771 2772 2778 2778 2778 2778 2778 277	Riverside	Northwest Northw	Unincorporated
2706 2707 2707 2726 2730 2731 2732 2734 2735 2738 2738 2739 2740 2741 2742 2743 2749 2743 2749 2743 2749 2740 2751 2762 2763 2764 2765 2767 2777 2778 2779 2770 2771 2772 2772 2773 2774 2775 2776 2777 2778 2779 2790 2790 2800 2803 2804 2805 2806 2807	Riverside	Northwest Northw	Unincorporated
2706 2707 2707 2726 2730 2731 2732 2734 2735 2738 2738 2739 2740 2741 2742 2742 2743 2749 2740 275 2766 2767 2777 2778 2779 2770 2771 2772 2773 2774 2775 2776 2777 2778 2779 2790 2790 2801 2803 2805 2806 2809 2806 2809 3093 3146 3147 3148	Riverside	Northwest Northw	Unincorporated
2706 2707 2707 2728 2730 2731 2732 2734 2735 2738 2739 2740 2741 2742 2743 2749 2745 275 2763 2764 2765 2765 2768 2769 2770 2771 2772 2772 2773 2774 2775 2776 2777 2778 2779 2790 2791 2792 2792 2799 2790 2800 2801 2808 3093 3146 3148	Riverside	Northwest Northw	Unincorporated
2706 2707 2707 2728 2730 2731 2732 2734 2735 2738 2738 2739 2740 2741 2742 2743 2749 2750 2751 2764 2765 2767 2776 2777 2778 2778 2779 2770 2771 2772 2773 2774 2775 2776 2777 2778 2779 2790 2791 2792 2792 2793 2794 2795 2795 2765 2766 2767 2777 2778 2779 2779 2790 2791 2792 2792 2799 2800 2801 2803 2806 2806 2806 2808 3093 3147 3148 3149 3149 3185 3185 3185	Riverside	Northwest Northw	Unincorporated
2706 2707 2707 2728 2730 2731 2732 2734 2738 2738 2738 2739 2740 2741 2742 2742 2743 2749 2753 2766 2767 2775 2776 2777 2778 2779 2790 2791 2792 2792 2799 2800 2801 2805 2805 2806 2809 2805 2806 2809 3093 3146 3187 3188 3188 3187 3189	Riverside	Northwest Northw	Unincorporated
2706 2707 2707 2708 2709 2731 2732 2734 2735 2738 2738 2739 2740 2741 2742 2743 2744 2745 2756 2767 2771 2778 2778 2779 2790 2771 2778 2778 2779 2790 2791 2791 2792 2798 2801 2803 2805 2806 2809 2801 2803 3146 3188 3187 3188 3187 3188	Riverside	Northwest Northw	Unincorporated Uninco
2706 2707 2707 2728 2730 2731 2732 2734 2735 2737 2741 2742 2742 2742 2742 2750 2750 2764 2766 2767 2772 2773 2764 2765 2766 2767 2777 2778 2779 2790 2790 2790 2790 2790 2800 2805 2805 2808 3093 3147 3188 3187 3188 3189 3190 3191 3193	Riverside	Northwest Northw	Unincorporated
2706 2707 2726 2730 2731 2732 2734 2735 2738 2739 2741 2742 2743 2749 2740 2741 2742 2743 2749 2750 2751 2768 2769 2770 2771 2778 2778 2779 2790 2801 2801 2803 2805 2808 3093 3146 3147 3188 3189 3189 3191 3191	Riverside	Northwest Northw	Unincorporated

EXHIBIT I-1 (continued)
RivCoM TAZ Correspondence by WRCOG TUMF Zone - Pass

TAZ	County	WRCOG Zone	
2	Riverside	Pass	Banning
	Riverside	Pass	Banning
3	Riverside	Pass	Banning
	Riverside	Pass	Banning
5	Riverside	Pass	Banning
7	Riverside	Pass	Banning
	Riverside	Pass	Banning
8	Riverside	Pass	Banning
9	Riverside Riverside	Pass Pass	Banning
11	Riverside	Pass	Banning Banning
12	Riverside	Pass	Banning
14	Riverside	Pass	Banning
	Riverside	Pass	Banning
15	Riverside	Pass	Banning
16	Riverside	Pass	
17	Riverside	Pass	Banning Banning
18	Riverside	Pass	Banning
19	Riverside	Pass	
20	Riverside	Pass	Banning Banning
21	Riverside	Pass	Banning
	Riverside	Pass	Banning
23	Riverside	Pass	Banning
24 25	Riverside	Pass	Banning
26	Riverside	Pass	Banning
	Riverside	Pass	Banning
27 28	Riverside	Pass	Banning
29	Riverside	Pass	Banning
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30	Riverside Riverside	Pass Pass	Banning
32	Riverside	Pass	Banning Banning
33 34	Riverside	Pass	Banning
35	Riverside	Pass	Banning
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44 45	Riverside	Pass	Banning
46	Riverside	Pass	Banning
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54	Riverside	Pass	Banning
55	Riverside	Pass	Banning
56	Riverside	Pass	Banning
57	Riverside	Pass	Beaumont
58	Riverside	Pass	Beaumont
59	Riverside	Pass	Beaumont
60	Riverside	Pass	Beaumont
61	Riverside	Pass	Beaumont
62	Riverside	Pass	Beaumont
63	Riverside Riverside	Pass Pass	Beaumont
64 65	Riverside	Pass	Beaumont Beaumont
66	Riverside	Pass	Beaumont
	Riverside	Pass	Beaumont
68	Riverside	Pass	Beaumont
69	Riverside	Pass	Beaumont
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	Riverside	Pass	Beaumont
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93	Riverside	Pass	Beaumont
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99	Riverside	Pass	Beaumont
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103	Riverside	Pass	Beaumont
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104	Riverside	Pass	Beaumont
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106	Riverside	Pass	Beaumont
107	Riverside	Pass	Beaumont
108	Riverside	Pass	Beaumont
109	Riverside	Pass	Beaumont
110	Riverside	Pass	Beaumont
	Riverside	Pass	Beaumont
111			
112	Riverside	Pass	Beaumont
	Riverside	Pass	Beaumont

129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 144 145 146 147 148 149 150 151 152 2356 2357 2363 2364 2365 2657 2658 2659 2640 2656 2657 2658 2659 2661 2667 2674 2858 2859 2897 2898 2899 2900 2901 2902 2903	Riverside	Poss Poss Poss Poss Poss Poss Poss Poss	Calimesa Unincorporated
130	Riverside	Poss Poss Poss Poss Poss Poss Poss Poss	Calimesa Unincorporated
131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 2355 2356 2357 2364 2367 2368 2469 2667 267 267 267 267 267 267 267 267 26	Riverside	Poss Poss Poss Poss Poss Poss Poss Poss	Calimesa Cal
132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 180 151 152 153 154 127 232 2355 2357 2357 2364 2365 2659 2659 2659 2659 2659 2659 267 267 267 267 288 2899 2899 2900 2901 2903 2904 2908	Riverside	Poss Poss Poss Poss Poss Poss Poss Poss	Calimesa Unincorporated
134 135 135 136 137 138 139 140 141 142 143 144 145 146 147 150 151 152 153 154 1278 2323 2355 2357 2364 2323 2355 2356 2657 2659 2659 2659 2659 2659 2659 2659 2659	Riverside	Pass Pass Pass Pass Pass Pass Pass Pass	Calimesa Unincorporated
135 136 137 138 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 2355 2356 2357 2363 2364 2355 2356 2357 2363 2364 2365 2667 2667 2674 2688 2689 2690 2890 2890 2900 2901 2902 2903 2904 2908	Riverside	Pass Pass Pass Pass Pass Pass Pass Pass	Calimesa Unincorporated
136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 1278 2323 2355 2357 2357 2364 2364 2365 2667 2669 267 267 267 2689 2697 2699 2899 2899 2900 2901 2902 2903	Riverside	Pass Pass Pass Pass Pass Pass Pass Pass	Calimesa Unincoporated Unincorporated
137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 152 153 2323 2355 2356 2357 2363 2364 2365 2667 2667 267 267 267 267 267 2	Riverside	Pass Pass Pass Pass Pass Pass Pass Pass	Calimesa Unincorporated
138 139 140 141 141 142 143 144 145 146 147 148 149 150 151 152 2353 2355 2627 2356 2357 2363 2364 2365 2657 2658 2659 2640 2656 2657 2658 2659 2661 2667 2674 2858 2859 2898 2899 2900 2901 2902 2903	Riverside	Pass Pass Pass Pass Pass Pass Pass Pass	Calimesa Unincorporated
139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 1278 2325 2356 2357 2363 2364 2365 2657 2658 2659 2667 2658 2659 2667 2658 2659 2667 2658 2859 2896 2897 2898 2899 2899 2899 2899 2900 2901 2902 2903	Riverside	Poss Poss Poss Poss Poss Poss Poss Poss	Calimesa Unincorporated
140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 1278 2323 2355 2356 2357 2363 2364 2365 2627 2629 2638 2640 2656 2657 2667 2674 2674 2858 2859 2899 2900 2901 2902 2903	Riverside	Pass Pass Pass Pass Pass Pass Pass Pass	Calimesa Unincaparated Unincorporated
141 142 143 144 144 145 146 147 148 149 150 151 152 153 154 1278 2323 2355 2357 2356 2357 2363 2364 2365 2659 2659 2659 2659 2667 2674 2688 2858 2859 2896 2897 2898 2899 2899 2899 2900 2901 2902 2903	Riverside	Pass Pass Pass Pass Pass Pass Pass Pass	Calimesa Unincorporated
142 143 144 145 146 147 148 149 150 151 152 153 154 2323 2355 2356 2357 2363 2364 2364 2650 2657 2668 2659 2640 2650 2657 2667 2667 2674 2858 2859 2898 2899 2900 2901 2902 2903	Riverside	Pass Pass Pass Pass Pass Pass Pass Pass	Calimesa Unincorporated
144 145 146 147 148 149 150 151 152 153 154 1278 2323 2355 2356 2357 2363 2355 2356 2357 2363 2364 2365 2627 2638 2659 2658 2659 2658 2659 2658 2659 2659 2659 2898 2899 2900 2901 2902 2903	Riverside	Pass Pass Pass Pass Pass Pass Pass Pass	Calimesa Unincorporated
145 146 147 148 149 149 150 151 152 153 154 1278 2323 2355 2357 2363 2364 2364 2365 2627 2638 2639 2640 2656 2657 2658 2659 2657 2658 2659 2859 2896 2897 2898 2899 2899 2899 2899 2900 2901 2902 2903	Riverside	Pass Pass Pass Pass Pass Pass Pass Pass	Calimesa Unincorporated
146 147 148 149 149 150 151 152 153 154 1278 2323 2356 2357 2363 2357 2363 2364 2365 2627 2638 2629 2640 2650 2656 2657 2668 2659 2640 2898 2899 2901 2901 2902 2903	Riverside	Pass Pass Pass Pass Pass Pass Pass Pass	Calimesa Moreno Valley Unincorporated
147 148 149 150 151 152 153 154 1278 2323 2355 2356 2357 2363 2364 2365 2627 2638 2639 2640 2650 2657 2657 2640 2656 2657 2657 2640 2656 2657 2657 2640 2659 2638 2659 2690 2901 2902 2903	Riverside	Pass Pass Pass Pass Pass Pass Pass Pass	Calimesa Moreno Valley Unincorporated
148 149 150 151 152 153 154 1278 2323 2355 2356 2357 2363 2364 2365 2627 2629 2638 2650 2656 2657 2658 2657 2661 2667 2678 2879 2898 2899 2901 2902 2903 2904 2904	Riverside	Poss Poss Poss Poss Poss Poss Poss Poss	Calimesa Moreno Valley Unincorporated
149 150 151 152 153 154 1278 2323 2355 2365 2367 2363 2364 2365 2627 2638 2640 2650 2655 2627 2638 2640 2650 2657 2658 2659 2659 2659 2659 2659 2659 2659 2659	Riverside Riverside	Pass Pass Pass Pass Pass Pass Pass Pass	Calimesa Calimesa Calimesa Calimesa Calimesa Calimesa Calimesa Calimesa Moreno Valley Unincorporated
150 151 152 153 154 1278 2323 2355 2356 2357 2364 2365 2627 2629 2638 2640 2656 2657 2658 2657 2658 2659 2659 2659 2659 2659 2659 2659 2659	Riverside	Poss Poss Poss Poss Poss Poss Poss Poss	Calimesa Calimesa Calimesa Calimesa Calimesa Calimesa Moreno Valley Unincorporated
151 152 152 153 154 1278 154 1278 154 1278 154 1278 154 155 154 155 15	Riverside	Poss Poss Poss Poss Poss Poss Poss Poss	Calimesa Calimesa Calimesa Calimesa Calimesa Moreno Valley Unincorporated
152 153 154 1278 2323 2355 2355 2357 2363 2364 2365 2627 2629 2638 2639 2640 2650 2650 2657 2659 2659 2659 2659 2659 2659 2659 2659	Riverside Riverside	Pass Poss Poss Poss Poss Poss Poss Poss	Calimesa Calimesa Moreno Valley Unincorporated
153 154 1278 2323 2355 2355 2355 2356 2357 2364 2365 2627 2638 2640 2650 2650 2656 2657 2658 2659 2640 2650 2659 2640 2650 2659 2650 2650 2650 2650 2650 2650 2650 2650	Riverside Riverside	Pass Pass Pass Pass Pass Pass Pass Pass	Calimesa Calimesa Moreno Valley Unincorporated
154 157 2323 2323 2355 2356 2357 2363 2364 2357 2363 2364 2659 2638 2659 2650 2657 2658 2657 2658 2659 2659 2640 2656 2657 2674 2674 2878 2899 2899 2899 2899 2899 2900 2901 2902 2903 2904	Riverside Riverside	Pass Pass Pass Pass Pass Pass Pass Pass	Calimesa Moreno Valley Unincorporated
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2355 2356 2357 23537 2363 2364 2365 2627 2629 2638 2659 2650 2656 2657 2658 2659 2661 2667 2674 2858 2859 2896 2897 2900 2901 2902 2903 2904 2904	Riverside Riverside	Pass Pass Pass Pass Pass Pass Pass Pass	Unincorporated
2356 2357 2363 2364 2365 2627 2629 2638 2640 2650 2650 2657 2658 2657 2659 2659 2661 2667 2674 2878 2879 2898 2899 2901 2901 2903 2904	Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside	Pass Pass Pass Pass Pass Pass Pass Pass	Unincorporated
2357 2363 2364 2365 2627 2629 2638 2639 2640 2650 2656 2657 2658 2657 2658 2657 2658 287 287 287 287 289 289 289 289 289 290 290 290 290 290 290 290 290	Riverside Riverside	Pass Pass Pass Pass Pass Pass Pass Pass	Unincorporated
2363 2364 2365 2627 2629 2638 2639 2640 2650 2655 2657 2658 2657 2661 2674 2858 2896 2897 2896 2900 2901 2902 2903	Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside	Pass Pass	Unincorporated
2364 2365 2627 2629 2638 2639 2640 2650 2656 2657 2658 2657 2658 2661 2667 2674 2858 2899 2899 2901 2902 2903 2904	Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside	Pass Pass Pass Pass Pass Pass Pass Pass	Unincorporated
23.65 26.27 26.28 26.29 26.38 26.39 26.40 26.50 26.55 26.57 26.58 26.59 26.61 26.74 28.58 28.59 28.97 28.98 28.99 29.00 29.01 29.02 29.03 29.04	Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside	Pass	Unincorporated
2627 2629 2638 2638 2639 2640 2650 2656 2657 2658 2659 2661 2667 2878 2859 2899 2897 2898 2899 2900 2901 2902 2903 2904	Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside	Pass Pass Pass Pass Pass Pass Pass Pass	Unincorporated Unincorporated Unincorporated Unincorporated Unincorporated Unincorporated Unincorporated Unincorporated
2629 2638 2639 2640 2650 2650 2655 2657 2658 2657 2667 2674 2874 2879 2896 2899 2900 2901 2902 2903 2904 2904	Riverside	Pass Pass Pass Pass Pass Pass Pass Pass	Unincorporated Unincorporated Unincorporated Unincorporated Unincorporated Unincorporated Unincorporated Unincorporated
2638 2639 2640 2640 2650 2656 2657 2658 2657 2661 2667 2674 2858 2859 2897 2898 2897 2898 2899 2900 2901 2902 2903 2903 2904	Riverside	Pass Pass Pass Pass Pass Pass Pass Pass	Unincorporated Unincorporated Unincorporated Unincorporated Unincorporated Unincorporated
2639 2640 2650 2650 2655 2657 2658 2659 2661 2674 2858 2859 2896 2897 2898 2899 2900 2901 2902 2903 2904	Riverside	Pass Pass Pass Pass Pass Pass Pass	Unincorporated Unincorporated Unincorporated Unincorporated
2650 2656 2657 2657 2658 2659 2661 2667 2674 2858 2859 2896 2897 2898 2899 2900 2901 2901 2902 2903 2904 2908	Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside	Pass Pass Pass Pass Pass	Unincorporated Unincorporated Unincorporated
2656 2657 2658 2659 2661 2667 2674 2858 2859 2896 2897 2897 2898 2899 2900 2901 2902 2903 2904 2908	Riverside Riverside Riverside Riverside Riverside Riverside Riverside	Pass Pass Pass	Unincorporated
2657 2658 2659 2661 2667 2674 2858 2859 2896 2897 2897 2898 2899 2900 2901 2902 2903 2904 2908	Riverside Riverside Riverside Riverside Riverside	Pass Pass	
2658 2659 2661 2667 2667 2858 2859 2896 2897 2898 2899 2900 2901 2902 2903 2904 2908	Riverside Riverside Riverside Riverside	Pass	
2659 2661 2667 2674 2858 2859 2896 2897 2898 2899 2900 2901 2902 2903 2904 2904	Riverside Riverside Riverside	Desc	Unincorporated
2661 2667 2674 2858 2859 2896 2897 2898 2899 2900 2901 2902 2902 2903 2904 2908	Riverside Riverside		Unincorporated Unincorporated
2667 2674 2858 2859 2859 2896 2897 2898 2899 2900 2901 2902 2903 2904 2908	Riverside	Pass	Unincorporated
2674 2858 2859 2859 2896 2897 2898 2899 2900 2901 2902 2903 2904 2908		Pass	Unincorporated
2858 2859 2896 2897 2898 2899 2900 2901 2902 2903 2904 2908	Riverside	Pass	Unincorporated
2896 2897 2898 2899 2900 2901 2902 2903 2904 2908	Riverside	Pass	Unincorporated
2897 2898 2899 2900 2901 2902 2903 2904 2908	Riverside	Pass	Unincorporated
2898 2899 2900 2901 2902 2903 2904 2908	Riverside	Pass	Unincorporated
2899 2900 2901 2902 2903 2904 2908	Riverside	Pass	Unincorporated
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2901 2902 2903 2904 2908	Riverside Riverside	Pass Pass	Unincorporated
2902 2903 2904 2908	Riverside	Pass	Unincorporated
2903 2904 2908	Riverside	Pass	Unincorporated Unincorporated
2904 2908	Riverside	Pass	Unincorporated
2908	Riverside	Pass	Unincorporated
2909	Riverside	Pass	Unincorporated
	Riverside	Pass	Unincorporated
2910	Riverside	Pass	Unincorporated
	Riverside Piverside	Pass Pass	Unincorporated
	Riverside Riverside	Pass	Unincorporated
	Riverside	Pass	Unincorporated Unincorporated
	Riverside	Pass	Unincorporated
	Riverside	Pass	Unincorporated
2940	Riverside	Pass	Unincorporated
2941	Riverside	Pass	Unincorporated
	Riverside	Pass	Unincorporated
2943	Riverside	Pass	Unincorporated
2944	Riverside Piverside	Pass Pass	Unincorporated
	Riverside Riverside	Pass Pass	Unincorporated
	Riverside	Pass	Unincorporated Unincorporated
	Riverside	Pass	Unincorporated
	Riverside	Pass	Unincorporated
2950	Riverside	Pass	Unincorporated
2951	Riverside	Pass	Unincorporated
	Riverside	Pass	Unincorporated
3042	Riverside	Pass	Unincorporated
	Riverside	Pass	Unincorporated
	Riverside Piverside	Pass	Unincorporated
	Riverside Riverside	Pass	Unincorporated
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	Riverside Riverside	Pass	Unincorporated Unincorporated
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	Riverside Riverside	Pass	Unincorporated
3219	Riverside Riverside		Unincorporated
	Riverside Riverside Riverside	Pass	
	Riverside Riverside Riverside Riverside	Pass Pass	Unincorporated
3222 3223	Riverside Riverside Riverside	Pass	

156	Riverside	Southwest	Canyon Lake
	Riverside	Southwest	Canyon Lake
157 158	Riverside Riverside Riverside	Southwest Southwest	Canyon Lake Canyon Lake Canyon Lake
159	Riverside	Southwest	Canyon Lake
	Riverside	Southwest	Canyon Lake
161	Riverside	Southwest	Canyon Lake
938	Riverside	Southwest	Lake Elsinore
939	Riverside	Southwest	Lake Elsinore
940	Riverside	Southwest	Lake Elsinore
941	Riverside	Southwest	Lake Elsinore
942	Riverside	Southwest	Lake Elsinore
943	Riverside	Southwest	Lake Elsinore
944	Riverside	Southwest	Lake Elsinore
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951	Riverside	Southwest	Lake Elsinore
952	Riverside	Southwest	
953	Riverside	Southwest	Lake Elsinore
954	Riverside	Southwest	Lake Elsinore
955	Riverside	Southwest	Lake Elsinore
956	Riverside	Southwest	
957	Riverside	Southwest	Lake Elsinore
958	Riverside	Southwest	
959	Riverside	Southwest	Lake Elsinore
960	Riverside	Southwest	Lake Elsinore
961	Riverside	Southwest	Lake Elsinore
962	Riverside	Southwest	
963	Riverside	Southwest	Lake Elsinore
964	Riverside	Southwest	Lake Elsinore
965	Riverside	Southwest	Lake Elsinore
966	Riverside	Southwest	Lake Elsinore
967	Riverside	Southwest	Lake Elsinore
968	Riverside	Southwest	
969 970 971	Riverside Riverside	Southwest Southwest	Lake Elsinore
972	Riverside Riverside	Southwest Southwest	Lake Elsinore
973	Riverside	Southwest	Lake Elsinore
974	Riverside	Southwest	
975	Riverside	Southwest	Lake Elsinore
976	Riverside	Southwest	
977	Riverside	Southwest	Lake Elsinore
978	Riverside	Southwest	
979	Riverside	Southwest	Lake Elsinore
980	Riverside	Southwest	
981	Riverside	Southwest	Lake Elsinore
982	Riverside	Southwest	Lake Elsinore
983	Riverside	Southwest	Lake Elsinore
984	Riverside	Southwest	Lake Elsinore
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987	Riverside	Southwest	Lake Elsinore
988	Riverside	Southwest	Lake Elsinore
989	Riverside	Southwest	Lake Elsinore
990	Riverside	Southwest	Lake Elsinore
991	Riverside	Southwest	Lake Elsinore
992	Riverside	Southwest	Lake Elsinore
993	Riverside	Southwest	Lake Elsinore
994	Riverside	Southwest	Lake Elsinore
995	Riverside	Southwest	Lake Elsinore
996	Riverside	Southwest	Lake Elsinore
997	Riverside	Southwest	Lake Elsinore
998	Riverside	Southwest	Lake Elsinore
999	Riverside	Southwest	Lake Elsinore
	Riverside	Southwest	Lake Elsinore
001	Riverside	Southwest	Lake Elsinore
	Riverside	Southwest	Lake Elsinore
003	Riverside	Southwest	Lake Elsinore
	Riverside	Southwest	Lake Elsinore
005	Riverside	Southwest	Lake Elsinore
	Riverside	Southwest	Lake Elsinore
007	Riverside	Southwest	Lake Elsinore
	Riverside	Southwest	Lake Elsinore
010	Riverside	Southwest	Lake Elsinore
1011	Riverside	Southwest	Lake Elsinore
012	Riverside Riverside	Southwest Southwest	Lake Elsinore
014	Riverside	Southwest	Lake Elsinore
	Riverside	Southwest	Lake Elsinore
016	Riverside Riverside	Southwest Southwest	Lake Elsinore
018	Riverside Riverside	Southwest Southwest	Lake Elsinore
020	Riverside Riverside	Southwest Southwest	Lake Elsinore
022	Riverside	Southwest	Lake Elsinore
	Riverside	Southwest	Lake Elsinore
024	Riverside	Southwest	Lake Elsinore
	Riverside	Southwest	Lake Elsinore
026	Riverside Riverside	Southwest Southwest	Lake Elsinore
028	Riverside Riverside	Southwest Southwest	Lake Elsinore
030	Riverside Riverside	Southwest Southwest	Lake Elsinore
032	Riverside Riverside	Southwest Southwest	Lake Elsinore
034	Riverside Riverside	Southwest Southwest	Lake Elsinore
036	Riverside Riverside	Southwest Southwest	Lake Elsinore
038	Riverside Riverside	Southwest Southwest	Lake Elsinore Lake Elsinore
040	Riverside Riverside	Southwest Southwest	Lake Elsinore
042	Riverside Riverside	Southwest Southwest	Lake Elsinore Lake Elsinore
286	Riverside	Southwest	Murrieta
287	Riverside	Southwest	Murrieta
288	Riverside	Southwest	Murrieta
289	Riverside	Southwest	Murrieta
290	Riverside	Southwest	Murrieta
291	Riverside	Southwest	Murrieta
292	Riverside	Southwest	Murrieta
293	Riverside	Southwest	Murrieta
294	Riverside	Southwest	Murrieta
295	Riverside	Southwest	Murrieta
296	Riverside	Southwest	Murrieta
	Riverside	Southwest	Murrieta
298	Riverside	Southwest	Murrieta
299	Riverside	Southwest	Murrieta
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302	Riverside	Southwest	Murrieta
	Riverside	Southwest	Murrieta
304	Riverside	Southwest	Murrieta
	Riverside	Southwest	Murrieta
306	Riverside	Southwest	Murrieta
	Riverside	Southwest	Murrieta
308	Riverside	Southwest	Murrieta
	Riverside	Southwest	Murrieta
310	Riverside	Southwest	Murrieta
	Riverside	Southwest	Murrieta
312	Riverside	Southwest	Murrieta
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314	Riverside	Southwest	Murrieta
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318	Riverside	Southwest	Murrieta
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320	Riverside	Southwest	Murrieta
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342	Riverside	Southwest	Murrieta
	Riverside	Southwest	Murrieta
343	Riverside	Southwest	Murrieta Murrieta
343 344 345	Riverside	Southwest	
344		Southwest Southwest	Murrieta Murrieta

TAZ	County	WRCOG Zone	City
1351	Riverside	Southwest	Murrieta
	Riverside	Southwest	Murrieta
1353	Riverside	Southwest	Murrieta
1354	Riverside		Murrieta
1355	Riverside	Southwest Southwest	Murrieta
1356	Riverside	Southwest	Murrieta
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1370	Riverside	Southwest	Murrieta
1372	Riverside	Southwest	Murrieta
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1374	Riverside Riverside	Southwest	Murrieta Murrieta
1376	Riverside	Southwest	Murrieta
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1389	Riverside	Southwest	Murrieta
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1390 1391 1392	Riverside Riverside	Southwest Southwest	Murrieta Murrieta
1393	Riverside	Southwest	Murrieta
1394	Riverside	Southwest	Murrieta
1395	Riverside	Southwest	Murrieta
139/	Riverside	Southwest	Murrieta
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1398	Riverside	Southwest	Murrieta
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1439	Riverside	Southwest	Murrieta Murrieta
1441	Riverside Riverside	Southwest Southwest	Murrieta
1442	Riverside	Southwest	Murrieta
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	Riverside	Southwest	Murrieta
1468	Riverside	Southwest	Murrieta
1470	Riverside Riverside Riverside	Southwest Southwest	Murrieta Murrieta Murrieta
1472	Riverside	Southwest	Murrieta
1473 1474 1475	Riverside Riverside	Southwest Southwest	Murrieta Murrieta
14/5 1476 1477	Riverside Riverside	Southwest Southwest	Murrieta Murrieta
14// 1478 1479	Riverside Riverside Riverside	Southwest Southwest	Murrieta Murrieta Murrieta
1480	Riverside	Southwest	Murrieta
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1496	Riverside	Southwest	Murrieta
1496 1497 1498	Riverside Riverside	Southwest Southwest	Murrieta Murrieta
1499	Riverside	Southwest	Murrieta
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1519	Riverside	Southwest Southwest	Murrieta Murrieta
1520 1521	Riverside		
1520 1521 1522 1523		Southwest Southwest	Murrieta Murrieta
1520 1521 1522 1523 1524 1525	Riverside Riverside Riverside Riverside Riverside	Southwest Southwest	
1520 1521 1522 1523 1524 1525 1526 1527	Riverside Riverside Riverside Riverside	Southwest Southwest Southwest Southwest Southwest	Murrieta Murrieta
1520 1521 1522 1523 1524 1525 1526	Riverside Riverside Riverside Riverside Riverside Riverside	Southwest Southwest Southwest Southwest	Murrieta Murrieta Murrieta Murrieta
1520 1521 1522 1523 1524 1525 1526 1527 1528	Riverside Riverside Riverside Riverside Riverside Riverside Riverside Riverside	Southwest Southwest Southwest Southwest Southwest Southwest	Murrieta Murrieta Murrieta Murrieta Murrieta Murrieta

TAZ 1531	County	WRCOG Zone	City
	Riverside	Southwest	Murrieta
1532	Riverside	Southwest	Murrieta
1533	Riverside	Southwest	Murrieta
1534	Riverside	Southwest	Murrieta
1535	Riverside	Southwest	Murrieta
1536	Riverside	Southwest	Murrieta
1537	Riverside	Southwest	Murrieta
1538	Riverside	Southwest	Murrieta
1539	Riverside	Southwest	Murrieta
2208	Riverside	Southwest	Temecula
2209	Riverside	Southwest	Temecula
2210	Riverside	Southwest	Temecula
2211 2212 2213	Riverside Riverside Riverside	Southwest Southwest Southwest	Temecula Temecula
2214	Riverside	Southwest	Temecula
	Riverside	Southwest	Temecula
2216	Riverside	Southwest	Temecula
2217	Riverside	Southwest	Temecula
2218	Riverside	Southwest	Temecula
	Riverside	Southwest	Temecula
2220	Riverside	Southwest	Temecula
2221	Riverside	Southwest	Temecula
2222	Riverside	Southwest	Temecula
2223	Riverside	Southwest	Temecula
2224	Riverside	Southwest	Temecula
2225	Riverside	Southwest	Temecula
	Riverside	Southwest	Temecula
2227	Riverside	Southwest	Temecula
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2230	Riverside	Southwest	Temecula
2231	Riverside	Southwest	Temecula
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	Riverside	Southwest	Temecula
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2235	Riverside	Southwest	Temecula
2236	Riverside	Southwest	Temecula
2237	Riverside	Southwest	Temecula
2238	Riverside	Southwest	Temecula
2239	Riverside	Southwest	Temecula
2240	Riverside	Southwest	Temecula
2241 2242 2243	Riverside Riverside	Southwest Southwest	Temecula Temecula
2243	Riverside	Southwest	Temecula
2244	Riverside	Southwest	Temecula
2245	Riverside	Southwest	Temecula
2246	Riverside	Southwest	Temecula
2247	Riverside	Southwest	Temecula
2248	Riverside	Southwest	Temecula
	Riverside	Southwest	Temecula
2250 2251 2252	Riverside Riverside Riverside	Southwest Southwest	Temecula Temecula Temecula
2253	Riverside	Southwest	Temecula
2254	Riverside	Southwest	Temecula
2255	Riverside	Southwest	Temecula
2256	Riverside	Southwest	Temecula
2257	Riverside	Southwest	Temecula
2258	Riverside	Southwest	Temecula
2259	Riverside	Southwest	Temecula
2259	Riverside	Southwest	Temecula Temecula
2260	Riverside	Southwest	
2261	Riverside	Southwest	
2262	Riverside	Southwest	Temecula
2263	Riverside	Southwest	Temecula
2264 2265 2266	Riverside Riverside Riverside	Southwest Southwest Southwest	Temecula Temecula
2267	Riverside	Southwest	Temecula
2268	Riverside	Southwest	Temecula
2269	Riverside	Southwest	Temecula
2270	Riverside	Southwest	Temecula
2271 2272 2273	Riverside Riverside Riverside	Southwest Southwest Southwest	Temecula Temecula
2274	Riverside	Southwest	Temecula
2275	Riverside	Southwest	Temecula
2276 2277 2278	Riverside Riverside	Southwest Southwest	Temecula Temecula
2279 2280	Riverside Riverside Riverside	Southwest Southwest Southwest	Temecula Temecula Temecula
2281	Riverside	Southwest	Temecula
2282	Riverside	Southwest	Temecula
2283 2284 2285	Riverside Riverside Riverside	Southwest Southwest Southwest	Temecula Temecula
2286 2287	Riverside Riverside	Southwest Southwest	Temecula Temecula Temecula
2288	Riverside	Southwest	Temecula
2289	Riverside	Southwest	Temecula
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2291	Riverside	Southwest	Temecula
2292	Riverside	Southwest	Temecula
2293	Riverside	Southwest	Temecula
2294	Riverside	Southwest	Temecula
2295 2296 2297	Riverside Riverside	Southwest Southwest	Temecula Temecula
2298 2299	Riverside Riverside Riverside	Southwest Southwest Southwest	Temecula Temecula Temecula
2300	Riverside	Southwest	Temecula
2301	Riverside	Southwest	Temecula
2302	Riverside	Southwest	Temecula
2303	Riverside	Southwest	Temecula
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2314	Riverside	Southwest	Temecula
2315	Riverside	Southwest	Temecula
2316 2317 2318	Riverside Riverside Riverside	Southwest Southwest Southwest	Temecula Temecula
2319	Riverside	Southwest	Temecula Temecula Unincorporated
2395	Riverside	Southwest	
2396	Riverside	Southwest	Unincorporated
2414	Riverside	Southwest	Unincorporated
2422	Riverside	Southwest	Unincorporated Unincorporated Unincorporated
2423	Riverside	Southwest	
2424	Riverside	Southwest	
2425	Riverside	Southwest	Unincorporated
2426	Riverside	Southwest	Unincorporated
2427	Riverside	Southwest	Unincorporated Unincorporated
2428	Riverside	Southwest	
2429	Riverside	Southwest	Unincorporated Unincorporated Unincorporated
2465	Riverside	Southwest	
2466	Riverside	Southwest	
2467	Riverside	Southwest	Unincorporated
2473	Riverside	Southwest	Unincorporated
2474	Riverside	Southwest	Unincorporated
2475	Riverside	Southwest	Unincorporated
2476	Riverside	Southwest	Unincorporated Unincorporated Unincorporated
2477	Riverside	Southwest	
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2479	Riverside	Southwest	Unincorporated
2480	Riverside	Southwest	Unincorporated
2481	Riverside	Southwest	Unincorporated Unincorporated Unincorporated
2492	Riverside	Southwest	
2495	Riverside	Southwest	
2496	Riverside	Southwest	Unincorporated Unincorporated
2497	Riverside	Southwest	
2498	Riverside	Southwest	Unincorporated
2499	Riverside	Southwest	Unincorporated
2500	Riverside	Southwest	Unincorporated Unincorporated Unincorporated
2501	Riverside	Southwest	
2509	Riverside	Southwest	
2510	Riverside	Southwest	Unincorporated
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2518	Riverside	Southwest	Unincorporated
2519	Riverside	Southwest	Unincorporated Unincorporated Unincorporated
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2523	Riverside	Southwest	Unincorporated
2524 2528 2529	Riverside Riverside	Southwest Southwest	Unincorporated Unincorporated
2529 2530 2531	Riverside Riverside Riverside	Southwest Southwest	Unincorporated Unincorporated Unincorporated
2532	Riverside	Southwest	Unincorporated
2533	Riverside	Southwest	Unincorporated
2534	Riverside	Southwest	Unincorporated Unincorporated Unincorporated
2535	Riverside	Southwest	
2536	Riverside	Southwest	
2537	Riverside	Southwest	Unincorporated
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2540	Riverside	Southwest	

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	2541 2542	County Riverside Riverside	Southwest Southwest	City Unincorporated Unincorporated
	2543 2544 2545	Riverside Riverside Riverside	Southwest Southwest	Unincorporated Unincorporated
	2546 2547	Riverside Riverside	Southwest Southwest	Unincorporated Unincorporated Unincorporated
	2548 2549 2550	Riverside Riverside Riverside	Southwest Southwest	Unincorporated Unincorporated Unincorporated
	2551 2552 2553	Riverside Riverside Riverside	Southwest Southwest	Unincorporated Unincorporated Unincorporated
	2554 2555 2556	Riverside Riverside Riverside	Southwest Southwest	Unincorporated Unincorporated Unincorporated
	2557 2558	Riverside Riverside	Southwest Southwest	Unincorporated Unincorporated
	2559 2560 2561	Riverside Riverside Riverside	Southwest Southwest	Unincorporated Unincorporated Unincorporated
	2562 2563 2564	Riverside Riverside Riverside	Southwest Southwest Southwest	Unincorporated Unincorporated Unincorporated
	2582 2583	Riverside Riverside	Southwest Southwest	Unincorporated Unincorporated
	2584 2585 2662	Riverside Riverside Riverside	Southwest Southwest Southwest	Unincorporated Unincorporated Unincorporated
	2663 2665 2695	Riverside Riverside Riverside	Southwest Southwest	Unincorporated Unincorporated Unincorporated
	2696 2697 2698	Riverside Riverside Riverside	Southwest Southwest Southwest	Unincorporated Unincorporated Unincorporated
	2699 2700 2701	Riverside Riverside Riverside	Southwest Southwest Southwest	Unincorporated Unincorporated
	2702 2703	Riverside Riverside	Southwest Southwest	Unincorporated Unincorporated Unincorporated
	2704 2708 2718	Riverside Riverside Riverside	Southwest Southwest	Unincorporated Unincorporated Unincorporated
	2720 2813 2814	Riverside Riverside Riverside	Southwest Southwest	Unincorporated Unincorporated Unincorporated
	2837 2838	Riverside Riverside	Southwest Southwest	Unincorporated Unincorporated
	2846 2847 2849	Riverside Riverside Riverside	Southwest Southwest Southwest	Unincorporated Unincorporated Unincorporated
	2852 2854 2855	Riverside Riverside Riverside	Southwest Southwest Southwest	Unincorporated Unincorporated Unincorporated
	2860 2861 3091	Riverside Riverside Riverside	Southwest Southwest Southwest	Unincorporated Unincorporated Unincorporated
	3092 3094 3095	Riverside Riverside	Southwest Southwest	Unincorporated Unincorporated
	3096 3097	Riverside Riverside Riverside	Southwest Southwest Southwest	Unincorporated Unincorporated Unincorporated
	3098 3099 3100	Riverside Riverside Riverside	Southwest Southwest	Unincorporated Unincorporated Unincorporated
	3101 3102 3103	Riverside Riverside Riverside	Southwest Southwest	Unincorporated Unincorporated Unincorporated
	3104 3105	Riverside Riverside	Southwest Southwest	Unincorporated Unincorporated
	3106 3108 3109	Riverside Riverside Riverside	Southwest Southwest Southwest	Unincorporated Unincorporated Unincorporated
	3110 3111 3112	Riverside Riverside Riverside	Southwest Southwest	Unincorporated Unincorporated Unincorporated
	3113 3114 3115	Riverside Riverside Riverside	Southwest Southwest	Unincorporated Unincorporated Unincorporated
	3116 3117 3118	Riverside Riverside	Southwest Southwest	Unincorporated Unincorporated
	3119 3120	Riverside Riverside Riverside	Southwest Southwest Southwest	Unincorporated Unincorporated Unincorporated
	3121 3122 3123	Riverside Riverside Riverside	Southwest Southwest	Unincorporated Unincorporated Unincorporated
	3124 3125 3126	Riverside Riverside Riverside	Southwest Southwest	Unincorporated Unincorporated Unincorporated
	3127 3128	Riverside Riverside	Southwest Southwest	Unincorporated Unincorporated
	3129 3130 3131	Riverside Riverside Riverside	Southwest Southwest Southwest	Unincorporated Unincorporated Unincorporated
	3132 3133 3134	Riverside Riverside Riverside	Southwest Southwest Southwest	Unincorporated Unincorporated Unincorporated
	3135 3136 3137	Riverside Riverside Riverside	Southwest Southwest	Unincorporated Unincorporated Unincorporated
	3138 3145 3150	Riverside Riverside Riverside	Southwest Southwest	Unincorporated Unincorporated Unincorporated
	3150 3176 3199 3200	Riverside Riverside Riverside	Southwest Southwest Southwest	Unincorporated Unincorporated Unincorporated
	3201 3202	Riverside Riverside	Southwest Southwest	Unincorporated Unincorporated
	3205 3207 3212	Riverside Riverside Riverside	Southwest Southwest Southwest	Unincorporated Unincorporated Unincorporated
	3213 3214 3224	Riverside Riverside Riverside	Southwest Southwest	Unincorporated Unincorporated Unincorporated
	3226 3234 3237	Riverside Riverside Riverside	Southwest Southwest Southwest	Unincorporated Unincorporated Unincorporated
	3238 3239 3240	Riverside Riverside	Southwest Southwest	Unincorporated Unincorporated
	3241 3246	Riverside Riverside Riverside	Southwest Southwest	Unincorporated Unincorporated Wildomar
	3247 3248 3249	Riverside Riverside Riverside	Southwest Southwest Southwest	Wildomar Wildomar Wildomar
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1	3253 3254 3255	Riverside Riverside Riverside	Southwest Southwest	Wildomar Wildomar Wildomar
	3256 3257 3258	Riverside Riverside Riverside	Southwest Southwest	Wildomar Wildomar
	3259 3260	Riverside Riverside	Southwest Southwest	Wildomar Wildomar Wildomar
	3261 3262 3263	Riverside Riverside Riverside	Southwest Southwest Southwest	Wildomar Wildomar Wildomar
	3264 3265 3266	Riverside Riverside Riverside	Southwest Southwest Southwest	Wildomar Wildomar
	3267 3268 3269	Riverside Riverside Riverside	Southwest Southwest Southwest	Wildomar Wildomar Wildomar
	3270 3271 3272	Riverside Riverside	Southwest Southwest	Wildomar Wildomar
	3273 3274	Riverside Riverside Riverside	Southwest Southwest Southwest	Wildomar Wildomar Wildomar
1	3275 3276 3277	Riverside Riverside Riverside	Southwest Southwest Southwest	Wildomar Wildomar Wildomar
1	3278 3279 3280	Riverside Riverside Riverside	Southwest Southwest Southwest	Wildomar Wildomar Wildomar
	3281 3282 3283	Riverside Riverside	Southwest Southwest	Wildomar Wildomar
	3284 3285	Riverside Riverside Riverside	Southwest Southwest	Wildomar Wildomar Wildomar
	3286 3287 3288	Riverside Riverside Riverside	Southwest Southwest Southwest	Wildomar Wildomar Wildomar
-	3289 3290 3291	Riverside Riverside Riverside	Southwest Southwest	Wildomar Wildomar Wildomar
	3292 3293 3294	Riverside Riverside Riverside	Southwest Southwest Southwest	Wildomar Wildomar Wildomar
	3295 3296 3297	Riverside Riverside Riverside	Southwest Southwest Southwest	Wildomar Wildomar
1	3297 3298 3299	Riverside Riverside	Southwest Southwest	Wildomar Wildomar Wildomar

EXHIBIT I-1 (confi	nued)			
RivCoM TAZ Corre	spondence by W	RCOG TUMF Zone	s - Riverside Cour	tv Outside WRCO

EXHIBIT I-1 (continued) RivCoM TAZ Correspondence by WRCOG TUMF Zones - Riverside C			
TAZ County WRCOG Zone City	TAZ County WRCOG Zone City 739 Riverside Outside TUMF Zones Indian Wells 740 Riverside Outside TUMF Zones Indian Wells	TAZ County WRCOG Zone City 1661 Riverside Outside TUMF Zones Palm Desert 1662 Riverside Outside TUMF Zones Palm Desert	TAZ County WRCOG Zone City 2516 Riverside Outside TUMF Zones Unincorporated 2517 Riverside Outside TUMF Zones Unincorporated
117 Riverside Outside TUMF Zones Blythe 118 Riverside Outside TUMF Zones Blythe 119 Riverside Outside TUMF Zones Blythe	741 Riverside Outside TUMF Zones Indian Wells 742 Riverside Outside TUMF Zones Indian Wells 743 Riverside Outside TUMF Zones Indian Wells	1663 Riverside Outside TUMF Zones Palm Desert 1664 Riverside Outside TUMF Zones Palm Desert 1665 Riverside Outside TUMF Zones Palm Desert	2525 Riverside Outside TUMF Zones Unincorporated 2526 Riverside Outside TUMF Zones Unincorporated
119 Riverside Outside TUMF Zones Blythe 120 Riverside Outside TUMF Zones Blythe 121 Riverside Outside TUMF Zones Blythe	744 Riverside Outside TUMF Zones Indian Wells 745 Riverside Outside TUMF Zones Indian Wells	1666 Riverside Outside TUMF Zones Palm Desert 1667 Riverside Outside TUMF Zones Palm Desert	2527 Riverside Outside TUMF Zones Unincorporated 2565 Riverside Outside TUMF Zones Unincorporated 2566 Riverside Outside TUMF Zones Unincorporated
122 Riverside Outside TUMF Zones Blythe 123 Riverside Outside TUMF Zones Blythe 124 Riverside Outside TUMF Zones Blythe	746 Riverside Outside TUMF Zones Indian Wells 747 Riverside Outside TUMF Zones Indian Wells 748 Riverside Outside TUMF Zones Indian Wells	1668 Riverside Outside TUMF Zones Palm Desert 1669 Riverside Outside TUMF Zones Palm Desert 1670 Riverside Outside TUMF Zones Palm Desert	2567 Riverside Outside TUMF Zones Unincorporated 2568 Riverside Outside TUMF Zones Unincorporated 2569 Riverside Outside TUMF Zones Unincorporated
125 Riverside Outside TUMF Zones Blythe 126 Riverside Outside TUMF Zones Blythe	749 Riverside Outside TUMF Zones Indian Wells 750 Riverside Outside TUMF Zones Indian Wells	1671 Riverside Outside TUMF Zones Palm Desert 1672 Riverside Outside TUMF Zones Palm Desert	2570 Riverside Outside TUMF Zones Unincorporated 2571 Riverside Outside TUMF Zones Unincorporated
127 Riverside Outside TUMF Zones Blythe 162 Riverside Outside TUMF Zones Cathedral City 163 Riverside Outside TUMF Zones Cathedral City	751 Riverside Outside TUMF Zones Indian Wells 752 Riverside Outside TUMF Zones India 753 Riverside Outside TUMF Zones India	1673 Riverside Outside TUMF Zones Palm Desert 1674 Riverside Outside TUMF Zones Palm Desert 1675 Riverside Outside TUMF Zones Palm Desert	2572 Riverside Outside TUMF Zones Unincorporated 2573 Riverside Outside TUMF Zones Unincorporated 2574 Riverside Outside TUMF Zones Unincorporated
164 Riverside Outside TUMF Zones Cathedral City 165 Riverside Outside TUMF Zones Cathedral City 166 Riverside Outside TUMF Zones Cathedral City	754 Riverside Outside TUMF Zones Indio 755 Riverside Outside TUMF Zones Indio 756 Riverside Outside TUMF Zones Indio	1676 Riverside Outside TUMF Zones Palm Desert 1677 Riverside Outside TUMF Zones Palm Desert 1678 Riverside Outside TUMF Zones Palm Desert	2575 Riverside Outside TUMF Zones Unincorporated 2576 Riverside Outside TUMF Zones Unincorporated 2577 Riverside Outside TUMF Zones Unincorporated
167 Riverside Outside TUMF Zones Cathedral City 168 Riverside Outside TUMF Zones Cathedral City	757 Riverside Outside TUMF Zones Indio 758 Riverside Outside TUMF Zones Indio	1679 Riverside Outside TUMF Zones Palm Desert 1680 Riverside Outside TUMF Zones Palm Desert	2578 Riverside Outside TUMF Zones Unincorporated 2579 Riverside Outside TUMF Zones Unincorporated
169 Riverside Outside TUMF Zones Cathedral City 170 Riverside Outside TUMF Zones Cathedral City 171 Riverside Outside TUMF Zones Cathedral City	759 Riverside Outside TUMF Zones Indio 760 Riverside Outside TUMF Zones Indio 761 Riverside Outside TUMF Zones Indio	1681 Riverside Outside TUMF Zones Palm Desert 1682 Riverside Outside TUMF Zones Palm Desert 1683 Riverside Outside TUMF Zones Palm Desert	2580 Riverside Outside TUMF Zones Unincorporated 2581 Riverside Outside TUMF Zones Unincorporated 2608 Riverside Outside TUMF Zones Unincorporated
172 Riverside Outside TUMF Zones Cathedral City 173 Riverside Outside TUMF Zones Cathedral City 174 Riverside Outside TUMF Zones Cathedral City	762 Riverside Outside TUMF Zones Indio 763 Riverside Outside TUMF Zones Indio 764 Riverside Outside TUMF Zones Indio	1684 Riverside Outside TUMF Zones Palm Desert 1685 Riverside Outside TUMF Zones Palm Desert 1686 Riverside Outside TUMF Zones Palm Desert	2609 Riverside Outside TUMF Zones Unincorporated 2610 Riverside Outside TUMF Zones Unincorporated 2611 Riverside Outside TUMF Zones Unincorporated
175 Riverside Outside TUMF Zones Cathedral City 176 Riverside Outside TUMF Zones Cathedral City	765 Riverside Outside TUMF Zones Indio 766 Riverside Outside TUMF Zones Indio	1687 Riverside Outside TUMF Zones Palm Desert 1688 Riverside Outside TUMF Zones Palm Desert	2612 Riverside Outside TUMF Zones Unincorporated 2613 Riverside Outside TUMF Zones Unincorporated
177 Riverside Outside TUMF Zones Cathedral City 178 Riverside Outside TUMF Zones Cathedral City 179 Riverside Outside TUMF Zones Cathedral City	767 Riverside Outside TUMF Zones Indio 768 Riverside Outside TUMF Zones Indio 769 Riverside Outside TUMF Zones Indio	1689 Riverside Outside TUMF Zones Palm Desert 1690 Riverside Outside TUMF Zones Palm Desert 1691 Riverside Outside TUMF Zones Palm Desert	2614 Riverside Outside TUMF Zones Unincorporated 2615 Riverside Outside TUMF Zones Unincorporated 2616 Riverside Outside TUMF Zones Unincorporated
180 Riverside Outside TUMF Zones Cathedral City 181 Riverside Outside TUMF Zones Cathedral City 182 Riverside Outside TUMF Zones Cathedral City	770 Riverside Outside TUMF Zones Indio 771 Riverside Outside TUMF Zones Indio 772 Riverside Outside TUMF Zones Indio	1692 Riverside Outside TUMF Zones Polm Springs 1693 Riverside Outside TUMF Zones Palm Springs 1694 Riverside Outside TUMF Zones Palm Springs	2617 Riverside Outside TUMF Zones Unincorporated 2618 Riverside Outside TUMF Zones Unincorporated 2619 Riverside Outside TUMF Zones Unincorporated
183 Riverside Outside TUMF Zones Cathedral City 184 Riverside Outside TUMF Zones Cathedral City 185 Riverside Outside TUMF Zones Cathedral City	773 Riverside Outside TUMF Zones Indio 774 Riverside Outside TUMF Zones Indio 775 Riverside Outside TUMF Zones Indio	1695 Riverside Outside TUMF Zones Palm Springs 1696 Riverside Outside TUMF Zones Palm Springs 1697 Riverside Outside TUMF Zones Palm Springs	2620 Riverside Outside TUMF Zones Unincorporated 2621 Riverside Outside TUMF Zones Unincorporated 2622 Riverside Outside TUMF Zones Unincorporated
186 Riverside Outside TUMF Zones Cathedral City 187 Riverside Outside TUMF Zones Cathedral City	776 Riverside Outside TUMF Zones Indio 777 Riverside Outside TUMF Zones Indio	1698 Riverside Outside TUMF Zones Palm Springs 1699 Riverside Outside TUMF Zones Palm Springs	2623 Riverside Outside TUMF Zones Unincorporated 2624 Riverside Outside TUMF Zones Unincorporated
188 Riverside Outside TUMF Zones Cathedral City 189 Riverside Outside TUMF Zones Cathedral City 190 Riverside Outside TUMF Zones Cathedral City	778 Riverside Outside TUMF Zones Indio 779 Riverside Outside TUMF Zones Indio 780 Riverside Outside TUMF Zones Indio	1700 Riverside Outside TUMF Zones Palm Springs 1701 Riverside Outside TUMF Zones Palm Springs 1702 Riverside Outside TUMF Zones Palm Springs	2636 Riverside Outside TUMF Zones Unincorporated 2637 Riverside Outside TUMF Zones Unincorporated 2918 Riverside Outside TUMF Zones Unincorporated
191 Riverside Outside TUMF Zones Cathedral City 192 Riverside Outside TUMF Zones Cathedral City 193 Riverside Outside TUMF Zones Cathedral City	781 Riverside Outside TUMF Zones Indio 782 Riverside Outside TUMF Zones Indio 783 Riverside Outside TUMF Zones Indio	1703 Riverside Outside TUMF Zones Palm Springs 1704 Riverside Outside TUMF Zones Palm Springs 1705 Riverside Outside TUMF Zones Palm Springs	2923 Riverside Outside TUMF Zones Unincorporated 2924 Riverside Outside TUMF Zones Unincorporated 2925 Riverside Outside TUMF Zones Unincorporated
194 Riverside Outside TUMF Zones Cathedral City 195 Riverside Outside TUMF Zones Cathedral City	784 Riverside Outside TUMF Zones Indio 785 Riverside Outside TUMF Zones Indio 786 Riverside Outside TUMF Zones Indio	1706 Riverside Outside TUMF Zones Palm Springs 1707 Riverside Outside TUMF Zones Palm Springs	2926 Riverside Outside TUMF Zones Unincorporated 2928 Riverside Outside TUMF Zones Unincorporated 2929 Riverside Outside TUMF Zones Unincorporated
197 Riverside Outside TUMF Zones Cathedral City 198 Riverside Outside TUMF Zones Cathedral City	786 Riverside Outside TUMF Zones Indio 787 Riverside Outside TUMF Zones Indio 788 Riverside Outside TUMF Zones Indio	1708 Riverside Outside TUMF Zones Palm Springs 1709 Riverside Outside TUMF Zones Palm Springs 1710 Riverside Outside TUMF Zones Palm Springs	2930 Riverside Outside TUMF Zones Unincorporated 2931 Riverside Outside TUMF Zones Unincorporated
199 Riverside Outside TUMF Zones Cathedral City 200 Riverside Outside TUMF Zones Cathedral City 201 Riverside Outside TUMF Zones Cathedral City	789 Riverside Outside TUMF Zones Indio 790 Riverside Outside TUMF Zones Indio 791 Riverside Outside TUMF Zones Indio	1711 Riverside Outside TUMF Zones Palm Springs 1712 Riverside Outside TUMF Zones Palm Springs 1713 Riverside Outside TUMF Zones Palm Springs	2932 Riverside Outside TUMF Zones Unincorporated 2933 Riverside Outside TUMF Zones Unincorporated 2953 Riverside Outside TUMF Zones Unincorporated
202 Riverside Outside TUMF Zones Cathedral City 203 Riverside Outside TUMF Zones Cathedral City 204 Riverside Outside TUMF Zones Cathedral City	792 Riverside Outside TUMF Zones Indio 793 Riverside Outside TUMF Zones Indio 794 Riverside Outside TUMF Zones Indio	1714 Riverside Outside TUMF Zones Palm Springs 1715 Riverside Outside TUMF Zones Palm Springs 1716 Riverside Outside TUMF Zones Palm Springs	2954 Riverside Outside TUMF Zones Unincorporated 2955 Riverside Outside TUMF Zones Unincorporated 2956 Riverside Outside TUMF Zones Unincorporated
205 Riverside Outside TUMF Zones Cathedral City 206 Riverside Outside TUMF Zones Cathedral City	795 Riverside Outside TUMF Zones Indio 796 Riverside Outside TUMF Zones Indio	1717 Riverside Outside TUMF Zones Palm Springs 1718 Riverside Outside TUMF Zones Palm Springs	2957 Riverside Outside TUMF Zones Unincorporated 2958 Riverside Outside TUMF Zones Unincorporated
207 Riverside Outside TUMF Zones Cathedral City 208 Riverside Outside TUMF Zones Cathedral City 209 Riverside Outside TUMF Zones Cathedral City	797 Riverside Outside TUMF Zones Indio 798 Riverside Outside TUMF Zones Indio 799 Riverside Outside TUMF Zones Indio	1719 Riverside Outside TUMF Zones Palm Springs 1720 Riverside Outside TUMF Zones Palm Springs 1721 Riverside Outside TUMF Zones Palm Springs	2959 Riverside Outside TUMF Zones Unincorporated 2960 Riverside Outside TUMF Zones Unincorporated 2961 Riverside Outside TUMF Zones Unincorporated
210 Riverside Outside TUMF Zones Cathedral City 211 Riverside Outside TUMF Zones Cathedral City 212 Riverside Outside TUMF Zones Cathedral City 212 Riverside Outside TUMF Zones Cathedral City	800 Riverside Outside TUMF Zones Indio 801 Riverside Outside TUMF Zones Indio 802 Riverside Outside TUMF Zones Indio 802 Riverside Outside TUMF Zones Indio	1722 Riverside Outside TUMF Zones Palm Springs 1723 Riverside Outside TUMF Zones Palm Springs 1724 Riverside Outside TUMF Zones Palm Springs	2962 Riverside Outside TUMF Zones Unincorporated 2963 Riverside Outside TUMF Zones Unincorporated 2964 Riverside Outside TUMF Zones Unincorporated 2964 Riverside Outside TUMF Zones Unincorporated
213 Riverside Outside TUMF Zones Cathedral City 214 Riverside Outside TUMF Zones Cathedral City	803 Riverside Outside TUMF Zones Indio 804 Riverside Outside TUMF Zones Indio	1725 Riverside Outside TUMF Zones Palm Springs 1726 Riverside Outside TUMF Zones Palm Springs	2965 Riverside Outside TUMF Zones Unincorporated 2966 Riverside Outside TUMF Zones Unincorporated
215 Riverside Outside TUMF Zones Cathedral City 216 Riverside Outside TUMF Zones Cathedral City 217 Riverside Outside TUMF Zones Cathedral City	805 Riverside Outside TUMF Zones Indio 806 Riverside Outside TUMF Zones Indio 807 Riverside Outside TUMF Zones Indio	1727 Riverside Outside TUMF Zones Palm Springs 1728 Riverside Outside TUMF Zones Palm Springs 1729 Riverside Outside TUMF Zones Palm Springs	2967 Riverside Outside TUMF Zones Unincorporated 2968 Riverside Outside TUMF Zones Unincorporated 2969 Riverside Outside TUMF Zones Unincorporated
218 Riverside Outside TUMF Zones Cathedral City 219 Riverside Outside TUMF Zones Cathedral City 220 Riverside Outside TUMF Zones Cathedral City	808 Riverside Outside TUMF Zones Indio 809 Riverside Outside TUMF Zones Indio 810 Riverside Outside TUMF Zones Indio	1730 Riverside Outside TUMF Zones Palm Springs 1731 Riverside Outside TUMF Zones Palm Springs 1732 Riverside Outside TUMF Zones Palm Springs	2970 Riverside Outside TUMF Zones Unincorporated 2971 Riverside Outside TUMF Zones Unincorporated 2972 Riverside Outside TUMF Zones Unincorporated
221 Riverside Outside TUMF Zones Cathedral City 222 Riverside Outside TUMF Zones Cathedral City 223 Riverside Outside TUMF Zones Cathedral City 223 Riverside Outside TUMF Zones Cathedral City	811 Riverside Outside TUMF Zones Indio 812 Riverside Outside TUMF Zones Indio 813 Riverside Outside TUMF Zones Indio	1732 Riverside Outside TUMF Zones Palm Springs 1734 Riverside Outside TUMF Zones Palm Springs 1735 Riverside Outside TUMF Zones Palm Springs 1735 Riverside Outside TUMF Zones Palm Springs	2973 Riverside Outside TUMF Zones Unincorporated 2974 Riverside Outside TUMF Zones Unincorporated 2975 Riverside Outside TUMF Zones Unincorporated
224 Riverside Outside TUMF Zones Cathedral City 225 Riverside Outside TUMF Zones Cathedral City	814 Riverside Outside TUMF Zones Indio 815 Riverside Outside TUMF Zones Indio	1736 Riverside Outside TUMF Zones Palm Springs 1737 Riverside Outside TUMF Zones Palm Springs	2976 Riverside Outside TUMF Zones Unincorporated 2977 Riverside Outside TUMF Zones Unincorporated
226 Riverside Outside TUMF Zones Cathedral City 227 Riverside Outside TUMF Zones Cathedral City 228 Riverside Outside TUMF Zones Cathedral City	816 Riverside Outside TUMF Zones Indio 817 Riverside Outside TUMF Zones Indio 818 Riverside Outside TUMF Zones Indio	1738 Riverside Outside TUMF Zones Palm Springs 1739 Riverside Outside TUMF Zones Palm Springs 1740 Riverside Outside TUMF Zones Palm Springs	2978 Riverside Outside TUMF Zones Unincorporated 2979 Riverside Outside TUMF Zones Unincorporated 2980 Riverside Outside TUMF Zones Unincorporated
229 Riverside Outside TUMF Zones Cathedral City 230 Riverside Outside TUMF Zones Cathedral City 231 Riverside Outside TUMF Zones Cathedral City 231 Riverside Outside TUMF Zones Cathedral City	819 Riverside Outside TUMF Zones Indio 820 Riverside Outside TUMF Zones Indio 821 Riverside Outside TUMF Zones Indio	1741 Riverside Outside TUMF Zones Palm Springs 1742 Riverside Outside TUMF Zones Palm Springs 1743 Riverside Outside TUMF Zones Palm Springs	2981 Riverside Outside TUMF Zones Unincorporated 2982 Riverside Outside TUMF Zones Unincorporated 2983 Riverside Outside TUMF Zones Unincorporated Unincorporated Unincorporated
232 Riverside Outside TUMF Zones Cathedral City 233 Riverside Outside TUMF Zones Cathedral City	822 Riverside Outside TUMF Zones Indio 823 Riverside Outside TUMF Zones Indio	1744 Riverside Outside TUMF Zones Palm Springs 1745 Riverside Outside TUMF Zones Palm Springs	2984 Riverside Outside TUMF Zones Unincorporated 2985 Riverside Outside TUMF Zones Unincorporated
234 Riverside Outside TUMF Zones Cathedral City 235 Riverside Outside TUMF Zones Cathedral City 236 Riverside Outside TUMF Zones Cathedral City	824 Riverside Outside TUMF Zones Indio 825 Riverside Outside TUMF Zones Indio 826 Riverside Outside TUMF Zones Indio	1746 Riverside Outside TUMF Zones Palm Springs 1747 Riverside Outside TUMF Zones Palm Springs 1748 Riverside Outside TUMF Zones Palm Springs	2986 Riverside Outside TUMF Zones Unincorporated 2987 Riverside Outside TUMF Zones Unincorporated 2988 Riverside Outside TUMF Zones Unincorporated
237 Riverside Outside TUMF Zones Cathedral City 238 Riverside Outside TUMF Zones Cathedral City 239 Riverside Outside TUMF Zones Cathedral City	827 Riverside Outside TUMF Zones Indio 828 Riverside Outside TUMF Zones Indio 829 Riverside Outside TUMF Zones Indio	1749 Riverside Outside TUMF Zones Palm Springs 1750 Riverside Outside TUMF Zones Palm Springs 1751 Riverside Outside TUMF Zones Palm Springs	2989 Riverside Outside TUMF Zones Unincorporated 2990 Riverside Outside TUMF Zones Unincorporated 2991 Riverside Outside TUMF Zones Unincorporated
240 Riverside Outside TUMF Zones Cathedral City 241 Riverside Outside TUMF Zones Coachella	830 Riverside Outside TUMF Zones Indio 831 Riverside Outside TUMF Zones Indio	1752 Riverside Outside TUMF Zones Palm Springs 1753 Riverside Outside TUMF Zones Palm Springs	2992 Riverside Outside TUMF Zones Unincorporated 2993 Riverside Outside TUMF Zones Unincorporated
242 Riverside Outside TUMF Zones Coachella 243 Riverside Outside TUMF Zones Coachella 244 Riverside Outside TUMF Zones Coachella	832 Riverside Outside TUMF Zones Indio 833 Riverside Outside TUMF Zones Indio 834 Riverside Outside TUMF Zones Indio	1754 Riverside Outside TUMF Zones Palm Springs 1755 Riverside Outside TUMF Zones Palm Springs 1756 Riverside Outside TUMF Zones Palm Springs	2994 Riverside Outside TUMF Zones Unincorporated 2995 Riverside Outside TUMF Zones Unincorporated 2996 Riverside Outside TUMF Zones Unincorporated
245 Riverside Outside TUMF Zones Coachella 246 Riverside Outside TUMF Zones Coachella 247 Riverside Outside TUMF Zones Coachella	835 Riverside Outside TUMF Zones Indio 836 Riverside Outside TUMF Zones Indio 837 Riverside Outside TUMF Zones Indio	1757 Riverside Outside TUMF Zones Palm Springs 1758 Riverside Outside TUMF Zones Palm Springs 1759 Riverside Outside TUMF Zones Palm Springs	2997 Riverside Outside TUMF Zones Unincorporated 2998 Riverside Outside TUMF Zones Unincorporated 2999 Riverside Outside TUMF Zones Unincorporated
248 Riverside Outside TUMF Zones Coachella 249 Riverside Outside TUMF Zones Coachella	838 Riverside Outside TUMF Zones Indio 839 Riverside Outside TUMF Zones Indio	1760 Riverside Outside TUMF Zones Palm Springs 1761 Riverside Outside TUMF Zones Palm Springs	3000 Riverside Outside TUMF Zones Unincorporated 3001 Riverside Outside TUMF Zones Unincorporated
251 Riverside Outside TUMF Zones Coachella 252 Riverside Outside TUMF Zones Coachella	841 Riverside Outside TUMF Zones Indio 904 Riverside Outside TUMF Zones La Quinta	1762 Riverside Outside TUMF Zones Palm Springs 1763 Riverside Outside TUMF Zones Palm Springs 1764 Riverside Outside TUMF Zones Palm Springs	3003 Riverside Outside TUMF Zones Unincorporated 3004 Riverside Outside TUMF Zones Unincorporated
253 Riverside Outside TUMF Zones Coachella 254 Riverside Outside TUMF Zones Coachella 255 Riverside Outside TUMF Zones Coachella	905 Riverside Outside TUMF Zones La Quinta 906 Riverside Outside TUMF Zones La Quinta 907 Riverside Outside TUMF Zones La Quinta	1765 Riverside Outside TUMF Zones Palm Springs 1766 Riverside Outside TUMF Zones Palm Springs 1767 Riverside Outside TUMF Zones Palm Springs	3005 Riverside Outside TUMF Zones Unincorporated 3006 Riverside Outside TUMF Zones Unincorporated 3007 Riverside Outside TUMF Zones Unincorporated
256 Riverside Outside TUMF Zones Coachella 257 Riverside Outside TUMF Zones Coachella 258 Riverside Outside TUMF Zones (Coachella	908 Riverside Outside TUMF Zones La Quinta 909 Riverside Outside TUMF Zones La Quinta 910 Riverside Outside TUMF Zones La Quinta	1768 Riverside Outside TUMF Zones Palm Springs 1769 Riverside Outside TUMF Zones Palm Springs 1770 Riverside Outside TUMF Zones Palm Springs	3008 Riverside Outside TUMF Zones Unincorporated 3009 Riverside Outside TUMF Zones Unincorporated 3010 Riverside Outside TUMF Zones Unincorporated
259 Riverside Outside TUMF Zones Coachella 260 Riverside Outside TUMF Zones Coachella	911 Riverside Outside TUMF Zones La Quinta 912 Riverside Outside TUMF Zones La Quinta	1771 Riverside Outside TUMF Zones Palm Springs 1772 Riverside Outside TUMF Zones Palm Springs	3011 Riverside Outside TUMF Zones Unincorporated 3012 Riverside Outside TUMF Zones Unincorporated
261 Riverside Outside TUMF Zones Coachella 262 Riverside Outside TUMF Zones Coachella 263 Riverside Outside TUMF Zones Coachella	913 Riverside Outside TUMF Zones La Quinta 914 Riverside Outside TUMF Zones La Quinta 915 Riverside Outside TUMF Zones La Quinta	1773 Riverside Outside TUMF Zones Polm Springs 1774 Riverside Outside TUMF Zones Palm Springs 1775 Riverside Outside TUMF Zones Palm Springs	3013 Riverside Outside TUMF Zones Unincorporated 3014 Riverside Outside TUMF Zones Unincorporated 3015 Riverside Outside TUMF Zones Unincorporated
264 Riverside Outside TUMF Zones Coachella 265 Riverside Outside TUMF Zones Coachella 266 Riverside Outside TUMF Zones Coachella	916 Riverside Outside TUMF Zones La Quinta 917 Riverside Outside TUMF Zones La Quinta 918 Riverside Outside TUMF Zones La Quinta	1776 Riverside Outside TUMF Zones Palm Springs 1777 Riverside Outside TUMF Zones Palm Springs 1778 Riverside Outside TUMF Zones Palm Springs	3016 Riverside Outside TUMF Zones Unincorporated 3017 Riverside Outside TUMF Zones Unincorporated 3018 Riverside Outside TUMF Zones Unincorporated
267 Riverside Outside TUMF Zones Coachella 268 Riverside Outside TUMF Zones Coachella	919 Riverside Outside TUMF Zones La Quinta 920 Riverside Outside TUMF Zones La Quinta	1779 Riverside Outside TUMF Zones Palm Springs 1780 Riverside Outside TUMF Zones Palm Springs	3019 Riverside Outside TUMF Zones Unincorporated 3020 Riverside Outside TUMF Zones Unincorporated
269 Riverside Outside TUMF Zones Coachella 270 Riverside Outside TUMF Zones Coachella 271 Riverside Outside TUMF Zones Coachella	921 Riverside Outside TUMF Zones La Quinta 922 Riverside Outside TUMF Zones La Quinta 923 Riverside Outside TUMF Zones La Quinta	1781 Riverside Outside TUMF Zones Palm Springs 1782 Riverside Outside TUMF Zones Palm Springs 1783 Riverside Outside TUMF Zones Palm Springs	3021 Riverside Outside TUMF Zones Unincorporated 3022 Riverside Outside TUMF Zones Unincorporated 3023 Riverside Outside TUMF Zones Unincorporated
272 Riverside Outside TUMF Zones Coachella 273 Riverside Outside TUMF Zones Coachella 274 Riverside Outside TUMF Zones Coachella	924 Riverside Outside TUMF Zones La Quinta 925 Riverside Outside TUMF Zones La Quinta 926 Riverside Outside TUMF Zones La Quinta	1784 Riverside Outside TUMF Zones Palm Springs 1785 Riverside Outside TUMF Zones Palm Springs 1786 Riverside Outside TUMF Zones Palm Springs	3024 Riverside Outside TUMF Zones Unincorporated 3025 Riverside Outside TUMF Zones Unincorporated 3026 Riverside Outside TUMF Zones Unincorporated
275 Riverside Outside TUMF Zones Coachella 276 Riverside Outside TUMF Zones Coachella	927 Riverside Outside TUMF Zones La Quinta 928 Riverside Outside TUMF Zones La Quinta	1787 Riverside Outside TUMF Zones Palm Springs 1788 Riverside Outside TUMF Zones Palm Springs	3027 Riverside Outside TUMF Zones Unincorporated 3028 Riverside Outside TUMF Zones Unincorporated
277 Riverside Outside TUMF Zones Coachella 278 Riverside Outside TUMF Zones Coachella 279 Riverside Outside TUMF Zones Coachella	929 Riverside Outside TUMF Zones La Quinta 930 Riverside Outside TUMF Zones La Quinta 931 Riverside Outside TUMF Zones La Quinta	1789 Riverside Outside TUMF Zones Palm Springs 1790 Riverside Outside TUMF Zones Palm Springs 1791 Riverside Outside TUMF Zones Palm Springs	3029 Riverside Outside TUMF Zones Unincorporated 3030 Riverside Outside TUMF Zones Unincorporated 3031 Riverside Outside TUMF Zones Unincorporated
280 Riverside Outside TUMF Zones Coachella 281 Riverside Outside TUMF Zones Coachella 282 Riverside Outside TUMF Zones Coachella	932 Riverside Outside TUMF Zones La Quinta 933 Riverside Outside TUMF Zones La Quinta 934 Riverside Outside TUMF Zones La Quinta	1792 Riverside Outside TUMF Zones Polm Springs 1880 Riverside Outside TUMF Zones Rancho Mirage 1881 Riverside Outside TUMF Zones Rancho Mirage	3032 Riverside Outside TUMF Zones Unincorporated 3033 Riverside Outside TUMF Zones Unincorporated 3034 Riverside Outside TUMF Zones Unincorporated
283 Riverside Outside TUMF Zones Coachella 284 Riverside Outside TUMF Zones Coachella 285 Riverside Outside TUMF Zones Coachella	935 Riverside Outside TUMF Zones La Quinta 936 Riverside Outside TUMF Zones La Quinta 937 Riverside Outside TUMF Zones La Quinta	1882 Riverside Outside TUMF Zones Rancho Mirage 1883 Riverside Outside TUMF Zones Rancho Mirage 1884 Riverside Outside TUMF Zones Rancho Mirage	3035 Riverside Outside TUMF Zones Unincorporated 3036 Riverside Outside TUMF Zones Unincorporated 3037 Riverside Outside TUMF Zones Unincorporated
286 Riverside Outside TUMF Zones Coachella 287 Riverside Outside TUMF Zones Coachella	1569 Riverside Outside TUMF Zones Palm Desert 1570 Riverside Outside TUMF Zones Palm Desert	1885 Riverside Outside TUMF Zones Rancho Mirage 1886 Riverside Outside TUMF Zones Rancho Mirage	3038 Riverside Outside TUMF Zones Unincorporated 3039 Riverside Outside TUMF Zones Unincorporated
288 Riverside Outside TUMF Zones Coachella 289 Riverside Outside TUMF Zones Coachella 290 Riverside Outside TUMF Zones Coachella	1571 Riverside Outside TUMF Zones Palm Desert 1572 Riverside Outside TUMF Zones Palm Desert 1573 Riverside Outside TUMF Zones Palm Desert	1887 Riverside Outside TUMF Zones Rancho Mirage 1888 Riverside Outside TUMF Zones Rancho Mirage 1889 Riverside Outside TUMF Zones Rancho Mirage	3040 Riverside Outside TUMF Zones Unincorporated 3041 Riverside Outside TUMF Zones Unincorporated 3043 Riverside Outside TUMF Zones Unincorporated
291 Riverside Outside TUMF Zones Coachella 292 Riverside Outside TUMF Zones Coachella 293 Riverside Outside TUMF Zones Coachella	1574 Riverside Outside TUMF Zones Palm Desert 1575 Riverside Outside TUMF Zones Palm Desert 1576 Riverside Outside TUMF Zones Palm Desert	1890 Riverside Outside TUMF Zones Rancho Mirage 1891 Riverside Outside TUMF Zones Rancho Mirage 1892 Riverside Outside TUMF Zones Rancho Mirage	3044 Riverside Outside TUMF Zones Unincorporated 3045 Riverside Outside TUMF Zones Unincorporated 3046 Riverside Outside TUMF Zones Unincorporated
294 Riverside Outside TUMF Zones Coachella 295 Riverside Outside TUMF Zones Coachella 296 Riverside Outside TUMF Zones Coachella	1577 Riverside Outside TUMF Zones Palm Desert 1578 Riverside Outside TUMF Zones Palm Desert 1579 Riverside Outside TUMF Zones Palm Desert	1893 Riverside Outside TUMF Zones Rancho Mirage 1894 Riverside Outside TUMF Zones Rancho Mirage 1895 Riverside Outside TUMF Zones Rancho Mirage	3047 Riverside Outside TUMF Zones Unincorporated 3048 Riverside Outside TUMF Zones Unincorporated 3049 Riverside Outside TUMF Zones Unincorporated
297 Riverside Outside TUMF Zones Coachella 298 Riverside Outside TUMF Zones Coachella	1580 Riverside Outside TUMF Zones Palm Desert 1581 Riverside Outside TUMF Zones Palm Desert	1896 Riverside Outside TUMF Zones Rancho Mirage 1897 Riverside Outside TUMF Zones Rancho Mirage	3050 Riverside Outside TUMF Zones Unincorporated 3051 Riverside Outside TUMF Zones Unincorporated
299 Riverside Outside TUMF Zones Coachella 300 Riverside Outside TUMF Zones Coachella 301 Riverside Outside TUMF Zones Coachella	1582 Riverside Outside TUMF Zones Palm Desert 1583 Riverside Outside TUMF Zones Palm Desert 1584 Riverside Outside TUMF Zones Palm Desert	1898 Riverside Outside TUMF Zones Rancho Mirage 1899 Riverside Outside TUMF Zones Rancho Mirage 1900 Riverside Outside TUMF Zones Rancho Mirage	3052 Riverside Outside TUMF Zones Unincorporated 3053 Riverside Outside TUMF Zones Unincorporated 3054 Riverside Outside TUMF Zones Unincorporated
302 Riverside Outside TUMF Zones Coachella 303 Riverside Outside TUMF Zones Coachella 304 Riverside Outside TUMF Zones Coachella	1585 Riverside Outside TUMF Zones Palm Desert 1586 Riverside Outside TUMF Zones Palm Desert 1587 Riverside Outside TUMF Zones Palm Desert	1901 Riverside Outside TUMF Zones Rancho Mirage 1902 Riverside Outside TUMF Zones Rancho Mirage 1903 Riverside Outside TUMF Zones Rancho Mirage	3055 Riverside Outside TUMF Zones Unincorporated 3056 Riverside Outside TUMF Zones Unincorporated 3057 Riverside Outside TUMF Zones Unincorporated
305 Riverside Outside TUMF Zones Coachella 306 Riverside Outside TUMF Zones Coachella 307 Riverside Outside TUMF Zones Coachella	1588 Riverside Outside TUMF Zones Palm Desert 1589 Riverside Outside TUMF Zones Palm Desert 1590 Riverside Outside TUMF Zones Palm Desert	1904 Riverside Outside TUMF Zones Rancho Mirage 1905 Riverside Outside TUMF Zones Rancho Mirage 1906 Riverside Outside TUMF Zones Rancho Mirage	3058 Riverside Outside TUMF Zones Unincorporated 3059 Riverside Outside TUMF Zones Unincorporated 3060 Riverside Outside TUMF Zones Unincorporated
308 Riverside Outside TUMF Zones Coachella 309 Riverside Outside TUMF Zones Coachella	1591 Riverside Outside TUMF Zones Palm Desert 1592 Riverside Outside TUMF Zones Palm Desert	1907 Riverside Outside TUMF Zones Rancho Mirage 1908 Riverside Outside TUMF Zones Rancho Mirage	3061 Riverside Outside TUMF Zones Unincorporated 3062 Riverside Outside TUMF Zones Unincorporated
311 Riverside Outside TUMF Zones Coachella 312 Riverside Outside TUMF Zones Coachella	1594 Riverside Outside TUMF Zones Palm Desert 1595 Riverside Outside TUMF Zones Palm Desert	2366 Riverside Outside TUMF Zones Unincorporated 2367 Riverside Outside TUMF Zones Unincorporated	3064 Riverside Outside TUMF Zones Unincorporated 3065 Riverside Outside TUMF Zones Unincorporated
313 Riverside Outside TUMF Zones Coachella 314 Riverside Outside TUMF Zones Coachella 315 Riverside Outside TUMF Zones Coachella	1596 Riverside Outside TUMF Zones Palm Desert 1597 Riverside Outside TUMF Zones Palm Desert 1598 Riverside Outside TUMF Zones Palm Desert	2368 Riverside Outside TUMF Zones Unincorporated 2369 Riverside Outside TUMF Zones Unincorporated 2415 Riverside Outside TUMF Zones Unincorporated 2416 Riverside Outside TUMF Zones Unincorporated	3066 Riverside Outside TUMF Zones Unincorporated 3067 Riverside Outside TUMF Zones Unincorporated 3068 Riverside Outside TUMF Zones Unincorporated
316 Riverside Outside TUMF Zones Coachella 317 Riverside Outside TUMF Zones Coachella 318 Riverside Outside TUMF Zones Coachella	1599 Riverside Outside TUMF Zones Palm Desert 1600 Riverside Outside TUMF Zones Palm Desert 1601 Riverside Outside TUMF Zones Palm Desert	2416 Riverside Outside TUMF Zones Unincorporated 2417 Riverside Outside TUMF Zones Unincorporated 2418 Riverside Outside TUMF Zones Unincorporated	3069 Riverside Outside TUMF Zones Unincorporated 3070 Riverside Outside TUMF Zones Unincorporated 3071 Riverside Outside TUMF Zones Unincorporated
319 Riverside Outside TUMF Zones Coachella 320 Riverside Outside TUMF Zones Coachella 321 Riverside Outside TUMF Zones Coachella 321 Riverside Outside TUMF Zones Coachella	1602 Riverside Outside TUMF Zones Palm Desert 1603 Riverside Outside TUMF Zones Palm Desert 1604 Riverside Outside TUMF Zones Palm Desert	2419 Riverside Outside TUMF Zones Unincorporated 2420 Riverside Outside TUMF Zones Unincorporated 2421 Riverside Outside TUMF Zones Unincorporated	3072 Riverside Outside TUMF Zones Unincorporated 3073 Riverside Outside TUMF Zones Unincorporated 3074 Riverside Outside TUMF Zones Unincorporated
322 Riverside Outside TUMF Zones Coachella 323 Riverside Outside TUMF Zones Coachella	1605 Riverside Outside TUMF Zones Palm Desert 1606 Riverside Outside TUMF Zones Palm Desert	2430 Riverside Outside TUMF Zones Unincorporated 2431 Riverside Outside TUMF Zones Unincorporated	3075 Riverside Outside TUMF Zones Unincorporated 3076 Riverside Outside TUMF Zones Unincorporated
324 Riverside Outside TUMF Zones Coachella 325 Riverside Outside TUMF Zones Coachella 326 Riverside Outside TUMF Zones Coachella	1608 Riverside Outside TUMF Zones Palm Desert 1609 Riverside Outside TUMF Zones Palm Desert	2432 Riverside Outside TUMF Zones Unincorporated 2433 Riverside Outside TUMF Zones Unincorporated 2434 Riverside Outside TUMF Zones Unincorporated	3077 Riverside Outside TUMF Zones Unincorporated 3078 Riverside Outside TUMF Zones Unincorporated 3079 Riverside Outside TUMF Zones Unincorporated Unincorporated
327 Riverside Outside TUMF Zones Coachella 328 Riverside Outside TUMF Zones Coachella 329 Riverside Outside TUMF Zones Coachella	1610 Riverside Outside TUMF Zones Palm Desert 1611 Riverside Outside TUMF Zones Palm Desert 1612 Riverside Outside TUMF Zones Palm Desert	2435 Riverside Outside TUMF Zones Unincorporated 2436 Riverside Outside TUMF Zones Unincorporated 2437 Riverside Outside TUMF Zones Unincorporated	3080 Riverside Outside TUMF Zones Unincorporated 3081 Riverside Outside TUMF Zones Unincorporated 3082 Riverside Outside TUMF Zones Unincorporated
330 Riverside Outside TUMF Zones Coachella 331 Riverside Outside TUMF Zones Coachella 570 Riverside Outside TUMF Zones Desert Hot Springs	1613 Riverside Outside TUMF Zones Palm Desert 1614 Riverside Outside TUMF Zones Palm Desert 1615 Riverside Outside TUMF Zones Palm Desert 1616 Riverside Outside TUMF Zones Palm Desert	2438 Riverside Outside TUMF Zones Unincorporated 2439 Riverside Outside TUMF Zones Unincorporated 2440 Riverside Outside TUMF Zones Unincorporated	3083 Riverside Outside TUMF Zones Unincorporated 3084 Riverside Outside TUMF Zones Unincorporated 3085 Riverside Outside TUMF Zones Unincorporated Unincorporated
571 Riverside Outside TUMF Zones Desert Hot Springs 572 Riverside Outside TUMF Zones Desert Hot Springs	1616 Riverside Outside TUMF Zones Palm Desert 1617 Riverside Outside TUMF Zones Palm Desert	2441 Riverside Outside TUMF Zones Unincorporated 2442 Riverside Outside TUMF Zones Unincorporated	3086 Riverside Outside TUMF Zones Unincorporated 3087 Riverside Outside TUMF Zones Unincorporated
573 Riverside Outside TUMF Zones Desert Hot Springs 574 Riverside Outside TUMF Zones Desert Hot Springs 575 Riverside Outside TUMF Zones Desert Hot Springs	1618 Riverside Outside TUMF Zones Palm Desert 1619 Riverside Outside TUMF Zones Palm Desert 1620 Riverside Outside TUMF Zones Palm Desert	2443 Riverside Outside TUMF Zones Unincorporated 2444 Riverside Outside TUMF Zones Unincorporated 2445 Riverside Outside TUMF Zones Unincorporated	3088 Riverside Outside TUMF Zones Unincorporated 3089 Riverside Outside TUMF Zones Unincorporated 3090 Riverside Outside TUMF Zones Unincorporated
576 Riverside Outside TUMF Zones Desert Hot Springs 577 Riverside Outside TUMF Zones Desert Hot Springs 578 Riverside Outside TUMF Zones Desert Hot Springs	1621 Riverside Outside TUMF Zones Palm Desert 1622 Riverside Outside TUMF Zones Palm Desert 1623 Riverside Outside TUMF Zones Palm Desert	2446 Riverside Outside TUMF Zones Unincorporated 2447 Riverside Outside TUMF Zones Unincorporated 2448 Riverside Outside TUMF Zones Unincorporated 2449 Riverside Outside TUMF Zones	3107 Riverside Outside TUMF Zones Unincorporated 3139 Riverside Outside TUMF Zones Unincorporated 3140 Riverside Outside TUMF Zones Unincorporated
579 Riverside Outside TUMF Zones Desert Hot Springs 580 Riverside Outside TUMF Zones Desert Hot Springs 581 Riverside Outside TUMF Zones Desert Hot Springs	1624 Riverside Outside TUMF Zones Palm Desert 1625 Riverside Outside TUMF Zones Palm Desert 1626 Riverside Outside TUMF Zones Palm Desert	2449 Riverside Outside TUMF Zones Unincorporated 2450 Riverside Outside TUMF Zones Unincorporated 2451 Riverside Outside TUMF Zones Unincorporated	3141 Riverside Outside TUMF Zones Unincorporated 3142 Riverside Outside TUMF Zones Unincorporated 3143 Riverside Outside TUMF Zones Unincorporated
582 Riverside Outside TUMF Zones Desert Hot Springs 583 Riverside Outside TUMF Zones Desert Hot Springs	1627 Riverside Outside TUMF Zones Palm Desert 1628 Riverside Outside TUMF Zones Palm Desert	2452 Riverside Outside TUMF Zones Unincorporated 2453 Riverside Outside TUMF Zones Unincorporated	3144 Riverside Outside TUMF Zones Unincorporated 3151 Riverside Outside TUMF Zones Unincorporated
584 Riverside Outside TUMF Zones Desert Hot Springs 585 Riverside Outside TUMF Zones Desert Hot Springs 586 Riverside Outside TUMF Zones Desert Hot Springs	1629 Riverside Outside TUMF Zones Palm Desert 1630 Riverside Outside TUMF Zones Palm Desert 1631 Riverside Outside TUMF Zones Palm Desert	2454 Riverside Outside TUMF Zones Unincorporated 2455 Riverside Outside TUMF Zones Unincorporated 2456 Riverside Outside TUMF Zones Unincorporated	3153 Riverside Outside TUMF Zones Unincorporated 3154 Riverside Outside TUMF Zones Unincorporated 3155 Riverside Outside TUMF Zones Unincorporated
587 Riverside Outside TUMF Zones Desert Hot Springs 588 Riverside Outside TUMF Zones Desert Hot Springs 589 Riverside Outside TUMF Zones Desert Hot Springs	1632 Riverside Outside TUMF Zones Palm Desert 1633 Riverside Outside TUMF Zones Palm Desert 1634 Riverside Outside TUMF Zones Palm Desert	2457 Riverside Outside TUMF Zones Unincorporated 2458 Riverside Outside TUMF Zones Unincorporated 2459 Riverside Outside TUMF Zones Unincorporated	3162 Riverside Outside TUMF Zones Unincorporated 3163 Riverside Outside TUMF Zones Unincorporated 3165 Riverside Outside TUMF Zones Unincorporated
590 Riverside Outside TUMF Zones Desert Hot Springs 591 Riverside Outside TUMF Zones Desert Hot Springs	1635 Riverside Outside TUMF Zones Palm Desert 1636 Riverside Outside TUMF Zones Palm Desert	2460 Riverside Outside TUMF Zones Unincorporated 2461 Riverside Outside TUMF Zones Unincorporated	3166 Riverside Outside TUMF Zones Unincorporated 3167 Riverside Outside TUMF Zones Unincorporated
593 Riverside Outside TUMF Zones Desert Hot Springs 594 Riverside Outside TUMF Zones Desert Hot Springs	1637 Riverside Outside TUMF Zones Palm Desert 1638 Riverside Outside TUMF Zones Palm Desert 1639 Riverside Outside TUMF Zones Palm Desert	2462 Riverside Outside TUMF Zones Unincorporated 2463 Riverside Outside TUMF Zones Unincorporated 2464 Riverside Outside TUMF Zones Unincorporated 2464 Riverside Outside TUMF Zones Unincorporated	3168 Riverside Outside TUMF Zones Unincorporated 3169 Riverside Outside TUMF Zones Unincorporated 3170 Riverside Outside TUMF Zones Unincorporated
595 Riverside Outside TUMF Zones Desert Hot Springs 596 Riverside Outside TUMF Zones Desert Hot Springs 597 Riverside Outside TUMF Zones Desert Hot Springs	1640 Riverside Outside TUMF Zones Palm Desert 1641 Riverside Outside TUMF Zones Palm Desert 1642 Riverside Outside TUMF Zones Palm Desert	2469 Riverside Outside TUMF Zones Unincorporated 2469 Riverside Outside TUMF Zones Unincorporated 2470 Riverside Outside TUMF Zones Unincorporated	3171 Riverside Outside TUMF Zones Unincorporated 3172 Riverside Outside TUMF Zones Unincorporated 3173 Riverside Outside TUMF Zones Unincorporated
598 Riverside Outside TUMF Zones Desert Hot Springs 599 Riverside Outside TUMF Zones Desert Hot Springs 600 Riverside Outside TUMF Zones Desert Hot Springs	1643 Riverside Outside TUMF Zones Palm Desert 1644 Riverside Outside TUMF Zones Palm Desert 1645 Riverside Outside TUMF Zones Palm Desert	2482 Riverside Outside TUMF Zones Unincorporated 2483 Riverside Outside TUMF Zones Unincorporated 2484 Riverside Outside TUMF Zones Unincorporated	3175 Riverside Outside TUMF Zones Unincorporated 3178 Riverside Outside TUMF Zones Unincorporated 3179 Riverside Outside TUMF Zones Unincorporated
601 Riverside Outside TUMF Zones Desert Hot Springs 602 Riverside Outside TUMF Zones Desert Hot Springs	1646 Riverside Outside TUMF Zones Palm Desert 1647 Riverside Outside TUMF Zones Palm Desert 1648 Riverside Outside TUMF Zones Palm Desert	2485 Riverside Outside TUMF Zones Unincorporated 2486 Riverside Outside TUMF Zones Unincorporated 2487 Riverside Outside TUMF Zones Unincorporated 2487 Riverside Outside TUMF Zones Unincorporated	3180 Riverside Outside TUMF Zones Unincorporated 3181 Riverside Outside TUMF Zones Unincorporated 3182 Riverside Outside TUMF Zones Unincorporated
	1649 Riverside Outside TUMF Zones Palm Desert 1650 Riverside Outside TUMF Zones Palm Desert	2488 Riverside Outside TUMF Zones Unincorporated 2489 Riverside Outside TUMF Zones Unincorporated	3184 Riverside Outside TUMF Zones Unincorporated 3208 Riverside Outside TUMF Zones Unincorporated
	1651 Riverside Outside TUMF Zones Palm Desert 1652 Riverside Outside TUMF Zones Palm Desert 1653 Riverside Outside TUMF Zones Palm Desert	2490 Riverside Outside TUMF Zones Unincorporated 2502 Riverside Outside TUMF Zones Unincorporated 2503 Riverside Outside TUMF Zones Unincorporated	3209 Riverside Outside TUMF Zones Unincorporated 3210 Riverside Outside TUMF Zones Unincorporated 3211 Riverside Outside TUMF Zones Unincorporated
	1654 Riverside Outside TUMF Zones Palm Desert 1655 Riverside Outside TUMF Zones Palm Desert 1656 Riverside Outside TUMF Zones Palm Desert	2504 Riverside Outside TUMF Zones Unincorporated 2505 Riverside Outside TUMF Zones Unincorporated 2506 Riverside Outside TUMF Zones Unincorporated	3215 Riverside Outside TUMF Zones Unincorporated
	1657 Riverside Outside TUMF Zones Palm Desert 1658 Riverside Outside TUMF Zones Palm Desert 1659 Riverside Outside TUMF Zones Palm Desert 1659 Riverside Outside TUMF Zones Palm Desert	2507 Riverside Outside TUMF Zones Unincorporated 2508 Riverside Outside TUMF Zones Unincorporated 2513 Riverside Outside TUMF Zones Unincorporated Unincorporated	
	1660 Riverside Outside TUMF Zones Palm Desert	2513 Riverside Outside IUMF Zones Unincorporated 2514 Riverside Outside TUMF Zones Unincorporated 2515 Riverside Outside TUMF Zones Unincorporated	

EXHIBIT I-1 (continued)
RIVCOM TAZ Correspondence by WRCOG TUMF Zones - Outside Riverside County

TAZ	County	WRCOG Zone
3300	Orange	Outside TUMF 7ones
3301	Orange	Outside TUMF Zones
3302		Outside TUMF Zones
3303	Orange	Outside TUMF Zones
3304	Orange	Outside TUMF Zones
3305	Orange	Outside TUMF Zones
3306	Orange	Outside TUMF Zones
3307	Orange	Outside TUMF Zones
	Ordrigo	
3300	Orange	
3309	Orange	Outside TUMF Zones
3310	Orange	Outside TUMF Zones
3311	Orange	Outside TUMF Zones
3312	Orange	Outside TUMF Zones
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3314	orange	
	Orange	Outside TUMF Zones
3315	Orange	Outside TUMF Zones
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	Orange	
3319	Orange	Outside TUMF Zones
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3321	Orange	Outside TUMF Zones
3322	Orange	Outside TUMF Zones
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3325	Orange	Outside TUMF Zones
3326	Orange	Outside TUMF Zones
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3330	Orange	Outside TUMF Zones
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3384	San Bernardino	WRCOG Zone Outside TUMF Zones
3385	San Bernardino	Outside TUMF Zones
3386	San Bernardino	Outside TUMF Zones
3387	San Bernardino	Outside TUMF Zones
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3400	San Bernardino	Outside TUMF Zones Outside TUMF Zones
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3402	San Bernardino	Outside TUMF Zones
3403	San Bernardino	Outside TUMF Zones
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3407	San Bernardino San Bernardino	Outside TUMF Zones
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3416	San Bernardino	Outside TUMF Zones Outside TUMF Zones
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3437	San Bernardino San Bernardino	Outside TUMF Zones Outside TUMF Zones
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3441	San Bernardino	Outside TUMF Zones
3442	San Bernardino	Outside TUMF Zones
3443	San Bernardino	Outside TUMF Zones
3444 3445	San Bernardino San Bernardino	Outside TUMF Zones Outside TUMF Zones
3446	San Bernardino	Outside TUMF Zones
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3450	San Bernardino	Outside TUMF Zones
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3453	San Bernardino	Outside TUMF Zones
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3456	San Bernardino	Outside TUMF Zones
3457 3458	San Bernardino San Bernardino	Outside TUMF Zones Outside TUMF Zones
3459	San Bernardino	Outside TUMF Zones
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3461	San Bernardino	Outside TUMF Zones
3462	San Bernardino	Outside TUMF Zones
3463	San Bernardino	Outside TUMF Zones
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3466	San Bernardino	Outside TUMF Zones
3467	San Bernardino	Outside TUMF Zones
3468	San Bernardino	Outside TUMF Zones
3469	San Bernardino	Outside TUMF Zones
3470	San Bernardino	Outside TUMF Zones
3471 3472	San Bernardino San Bernardino	Outside TUMF Zones Outside TUMF Zones
3472	San Bernardino	Outside TUMF Zones
3474	San Bernardino	Outside TUMF Zones
3475	San Bernardino	Outside TUMF Zones
3476	San Bernardino	Outside TUMF Zones
3477	San Bernardino	Outside TUMF Zones
3478 3479	San Bernardino San Bernardino	Outside TUMF Zones Outside TUMF Zones
3480	San Bernardino	Outside TUMF Zones
3481	San Bernardino	Outside TUMF Zones
3482	San Bernardino	Outside TUMF Zones

TAZ	County	WRCOG Zone
3370	San Diego	Outside TUMF Zones
3371	San Diego	Outside TUMF Zones
3372	San Diego	Outside TUMF Zones
3373	San Diego	Outside TUMF Zones
3374	San Diego	Outside TUMF Zones
3375	San Diego	Outside TUMF Zones
3376	San Diego	Outside TUMF Zones
3377	San Diego	Outside TUMF Zones
3378	San Diego	Outside TUMF Zones
3379	San Diego	Outside TUMF Zones
3380	San Diego	Outside TUMF Zones
3381	San Diego	Outside TUMF Zones
3382	San Diego	Outside TUMF Zones
3383	San Diego	Outside TUMF Zones

EXHIBIT I-2 - 2045 AM Peak Period Vehicle Trips by WRCOG Zone*

TO FROM	Central	Hemet/San Jacinto	Northwest	Pass Area	Southwest	Outside WRCOG	TOTAL
Central	187,280	10,596	40,037	2,900	24,865	25,446	291,124
Hemet/San Jacinto	13,060	93,350	3,815	3,847	7,263	8,090	129,424
Northwest	26,655	1,189	333,593	1,239	4,956	86,710	454,342
Pass Area	3,663	3,372	2,768	49,166	402	14,458	73,828
Southwest	25,061	7,304	14,708	914	298,362	27,954	374,302
Outside WRCOG	15,413	3,353	86,546	11,208	14,949		131,469
TOTAL	271,131	119,163	481,467	69,274	350,797	162,658	1,454,490

^{*} Based on RIVCOM Year 2045 No-Build Scenario, February 2024

EXHIBIT I-3 - 2045 AM Peak Period Percent Vehicle Trips by WRCOG Zone*

TO FROM	Central	Hemet/San Jacinto	Northwest	Pass Area	Southwest	Outside WRCOG	TOTAL
Central	64.3%	3.6%	13.8%	1.0%	8.5%	8.7%	100%
Hemet/San Jacinto	10.1%	72.1%	2.9%	3.0%	5.6%	6.3%	100%
Northwest	5.9%	0.3%	73.4%	0.3%	1.1%	19.1%	100%
Pass Area	5.0%	4.6%	3.7%	66.6%	0.5%	19.6%	100%
Southwest	6.7%	2.0%	3.9%	0.2%	79.7%	7.5%	100%

^{*} Based on RIVCOM Year 2045 No-Build Scenario, February 2024

EXHIBIT I-4 - 2045 PM Peak Period Vehicle Trips by WRCOG Zone*

TO FROM	Central	Hemet/San Jacinto	Northwest	Pass Area	Southwest	Outside WRCOG	TOTAL
Central	230,328	12,878	49,743	3,401	30,237	32,112	358,698
Hemet/San Jacinto	16,341	115,656	4,833	4,586	8,818	9,988	160,221
Northwest	31,923	1,495	409,641	1,448	6,076	109,331	559,914
Pass Area	4,405	4,214	3,346	61,219	506	17,876	91,566
Southwest	30,752	8,928	18,144	1,062	368,893	34,759	462,537
Outside WRCOG	18,495	4,221	106,166	13,282	18,918		161,080
TOTAL	332,244	147,391	591,872	84,997	433,447	204,065	1,794,017

^{*} Based on RIVCOM Year 2045 No-Build Scenario, February 2024

EXHIBIT I-5 - 2045 PM Peak Period Percent Vehicle Trips by WRCOG Zone*

TO FROM	Central	Hemet/San Jacinto	Northwest	Pass Area	Southwest	Outside WRCOG	TOTAL
Central	64.2%	3.6%	13.9%	0.9%	8.4%	9.0%	100%
Hemet/San Jacinto	10.2%	72.2%	3.0%	2.9%	5.5%	6.2%	100%
Northwest	5.7%	0.3%	73.2%	0.3%	1.1%	19.5%	100%
Pass Area	4.8%	4.6%	3.7%	66.9%	0.6%	19.5%	100%
Southwest	6.6%	1.9%	3.9%	0.2%	79.8%	7.5%	100%

^{*} Based on RIVCOM Year 2045 No-Build Scenario, February 2024

EXHIBIT I-6 - 2045 Off-Peak Period Vehicle Trips by WRCOG Zone*

TO FROM	Central	Hemet/San Jacinto	Northwest	Pass Area	Southwest	Outside WRCOG	TOTAL
Central	313,691	17,511	64,577	3,948	39,446	41,718	480,890
Hemet/San Jacinto	21,579	162,035	5,659	6,318	10,987	11,533	218,110
Northwest	43,461	1,848	565,759	1,528	7,406	160,552	780,554
Pass Area	6,068	6,269	4,125	91,253	631	24,354	132,700
Southwest	40,442	11,861	22,506	1,132	508,327	40,698	624,964
Outside WRCOG	25,307	5,301	145,054	16,534	23,061		215,257
TOTAL	450,546	204,825	807,679	120,712	589,859	278,854	2,452,475

^{*} Based on RIVCOM Year 2045 No-Build Scenario, February 2024

Table I-7 - 2045 Off-Peak Period Percent Vehicle Trips by WRCOG Zone*

TO FROM	Central	Hemet/San Jacinto	Northwest	Pass Area	Southwest	Outside WRCOG	TOTAL
Central	65.2%	3.6%	13.4%	0.8%	8.2%	8.7%	100%
Hemet/San Jacinto	9.9%	74.3%	2.6%	2.9%	5.0%	5.3%	100%
Northwest	5.6%	0.2%	72.5%	0.2%	0.9%	20.6%	100%
Pass Area	4.6%	4.7%	3.1%	68.8%	0.5%	18.4%	100%
Southwest	6.5%	1.9%	3.6%	0.2%	81.3%	6.5%	100%

^{*} Based on RIVCOM Year 2045 No-Build Scenario, February 2024

EXHIBIT I-8 - 2045 Daily Vehicle Trips by WRCOG Zone*

TO FROM	Central	Hemet/San Jacinto	Northwest	Pass Area	Southwest	Outside WRCOG	TOTAL
Central	731,298	40,985	154,356	10,249	94,547	99,276	1,130,712
Hemet/San Jacinto	50,980	371,040	14,306	14,750	27,068	29,611	507,755
Northwest	102,039	4,532	1,308,993	4,215	18,439	356,593	1,794,811
Pass Area	14,136	13,855	10,239	201,638	1,539	56,688	298,095
Southwest	96,254	28,093	55,358	3,108	1,175,582	103,410	1,461,804
Outside WRCOG	59,214	12,874	337,766	41,024	56,927		507,806
TOTAL	1,053,921	471,379	1,881,018	274,984	1,374,103	645,578	5,700,982

^{*} Based on RIVCOM Year 2045 No-Build Scenario, February 2024

EXHIBIT I-9 - 2045 Percent Daily Vehicle Trips by WRCOG Zone*

TO FROM	Central	Hemet/San Jacinto	Northwest	Pass Area	Southwest	Outside WRCOG	TOTAL
Central	64.7%	3.6%	13.7%	0.9%	8.4%	8.8%	100%
Hemet/San Jacinto	10.0%	73.1%	2.8%	2.9%	5.3%	5.8%	100%
Northwest	5.7%	0.3%	72.9%	0.2%	1.0%	19.9%	100%
Pass Area	4.7%	4.6%	3.4%	67.6%	0.5%	19.0%	100%
Southwest	6.6%	1.9%	3.8%	0.2%	80.4%	7.1%	100%

^{*} Based on RIVCOM Year 2045 No-Build Scenario, February 2024

Appendix J - Western Riverside County Regional Trip Purpose

On September 27, 2013, California Governor Jerry Brown signed SB 743 into law, fundamentally changing the way that transportation impacts are to be assessed pursuant to the California Environmental Quality Act (CEQA). The new law requires CEQA guidelines to be amended to provide an alternative to Level of Service for evaluating transportation impacts. The intent of the change is to introduce alternate criteria that "promote the reduction of greenhouse gas emissions, the development of multimodal transportation networks, and a diversity of land uses." (New Public Resources Code Section 21099(b)(1).) The primary effect of the new law is to establish the use of vehicle miles of travel (VMT) as the preferred basis for measuring traffic impacts, in recognition of the fact that VMT more accurately reflects traffic impacts as it takes into account both the number of trips being made and the distance of those trips. Although CEQA and the specific provision of SB 743 do not generally apply directly to impact fee programs (which are governed by the provision of the Mitigation Fee Act), the reasoning behind SB 743 establishing VMT as the preferred basis for CEQA traffic impact measurement is sound and equally applicable for impact fee nexus determination.

Linking the TUMF to VMT does enable developers to continue to use TUMF participation as demonstration of partial mitigation for their cumulative regional transportation impacts under the new SB 743 requirements. Furthermore, consistent with SB 743, consideration of travel impacts in terms of peak period VMT more accurately reflects the realities of travel behavior as the basis for determining impacts on the regional transportation system by reflecting the peak demands on the system based on the number of trips and the cumulative distance these trips occupy facilities in the system. Variation in trip length for different trip purposes is important to quantify since the impact associated with a trip is not limited to whether a trip occurs or not. A longer distance trip occupies more roadways over a longer period of time (all else being equal), and therefore goes through more intersections and consumes more capacity, thus requiring greater levels of mitigation. As the purpose of the TUMF is to mitigate the cumulative regional traffic impacts of future growth, a VMT based approach to defining the rough proportionality of impacts resulting from various differing types of new development better aligns with this purpose.

RivCoM is the primary analytical toll used to forecast VMT in Riverside County. RivCoM was developed based on the SCAG regional travel demand model, whose underlying model travel characteristics were developed based on national and regional travel behavior surveys, including the U.S. Census and the California Household Travel Survey. The methodology for using travel demand models, including RivCoM, as the basis for calculating and measuring VMT is consistent with NEPA and CEQA guidance, and accepted transportation planning practice.

The RivCoM model produces person-trips (irrespective of mode choice) on the basis of five trip purposes including home-based-work (HBW), home-based-other (HBO), home-based-school (HBS), home-based-university (HBU), and non-home based (NHB). Peak period, off-peak period and daily vehicle trips and VMT are derived from the person-trip productions based on mode choice assignments and differing trip length

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characteristics embedded on the model parameters. Daily VMT results were aggregated into home-based VMT and non-home-based VMT for each scenario to represent the level of travel demand and impact on the transportation system attributable to each trip purpose.

The attribution of VMT associated with home-based trip purposes to residential land uses and non-home-based trips to non-residential land uses is consistent with the provisions of NCHRP Report #187 Quick Response Urban Travel Estimation Techniques and Transferable Parameters User's Guide (Transportation Research Board, 1978), a widely-referenced source for travel estimation techniques used for travel demand modeling. Chapter 2 of this report, which details trip generation estimation, 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." Consistent with NCHRP Report #187, aggregating person trip productions and associated VMT into home-based (combining home-based-work, home-based-other and home-based-school) and non-home-based (combining work-based-other, and other-based-other) represents an appropriate way to allocate trip generation and associated impacts between residential and non-residential land uses for the purpose of estimating the rough proportionality of the TUMF fee.

Exhibits J-1 through **J-36** of this Appendix include the RivCoM model data aggregated for peak period, off-peak period and daily person VMT for each trip purpose between the respective TUMF zones, and for both model year scenarios. The growth in daily VMT for each trip purpose was calculated as the difference between the daily VMT in the 2018 Existing scenario and the daily VMT in the 2045 No Build scenario. The growth in home-based daily VMT represents 77.7% of the total growth in daily VMT, and the growth in non-home-based daily VMT represents 22.3% of the total growth in daily VMT, as shown in **Table 5.4**. The relative share of the growth in daily VMT summarized in **Table 5.4** provides the basis for estimating the rough proportionality of the TUMF network impacts and related mitigation costs (and associated fees) attributable to new residential and non-residential development, respectively.

EXHIBIT J-1 VMT BY WRCOG TUMF ZONE TOTAL PEAK PERIOD TRIPS FOR ALL PURPOSES - 2018 EXISTING

To From	Central	Hemet/San Jacinto	Northwest	Pass Area	Southwest	Outside WRCOG	TOTAL
Central	1,084,569	176,144	919,950	98,767	494,843	1,672,280	4,446,553
Hemet/San Jacinto	202,282	474,270	189,620	93,211	207,871	736,736	1,903,990
Northwest	471,239	62,909	3,082,883	69,489	235,185	3,500,199	7,421,903
Pass Area	86,956	66,611	120,609	230,246	31,017	531,753	1,067,192
Southwest	474,113	188,640	635,435	61,535	1,822,831	2,240,495	5,423,048
Outside WRCOG	833,664	293,941	3,584,150	403,303	1,245,556	129,717,014	136,077,627
TOTAL	3,152,824	1,262,514	8,532,646	956,551	4,037,302	138,398,477	156,340,314

EXHIBIT J-2 VMT BY WRCOG TUMF ZONE PEAK PERIOD HOME-BASED-WORK TRIPS ONLY - 2018 EXISTING

To From	Central	Hemet/San Jacinto	Northwest	Pass Area	Southwest	Outside WRCOG	TOTAL
Central	165,241	58,992	411,439	65,622	197,893	1,220,777	2,119,965
Hemet/San Jacinto	70,807	53,805	128,758	48,898	103,290	567,394	972,951
Northwest	143,340	37,259	674,676	53,185	136,185	1,920,635	2,965,279
Pass Area	25,983	15,665	65,646	34,287	18,981	304,632	465,194
Southwest	165,236	76,537	376,007	49,330	410,382	1,721,102	2,798,594
Outside WRCOG	420,948	169,433	1,777,239	260,161	753,400	45,139,830	48,521,011
TOTAL	991,555	411,691	3,433,764	511,483	1,620,131	50,874,369	57,842,994

EXHIBIT J-3 VMT BY WRCOG TUMF ZONE PEAK PERIOD HOME-BASED-OTHER TRIPS ONLY - 2018 EXISTING

To From	Central	Hemet/San Jacinto	Northwest	Pass Area	Southwest	Outside WRCOG	TOTAL
Central	673,880	84,730	364,070	26,370	227,784	361,436	1,738,269
Hemet/San Jacinto	100,994	306,411	50,898	33,509	84,214	146,284	722,311
Northwest	239,023	20,386	1,679,367	13,441	81,648	1,178,130	3,211,995
Pass Area	45,133	33,006	42,321	129,128	10,013	167,567	427,168
Southwest	234,369	82,255	197,098	10,679	1,016,873	402,898	1,944,172
Outside WRCOG	326,013	98,751	1,241,409	108,093	389,492	54,404,000	56,567,758
TOTAL	1,619,412	625,538	3,575,162	321,221	1,810,024	56,660,315	64,611,673

EXHIBIT J-4 VMT BY WRCOG TUMF ZONE PEAK PERIOD HOME-BASED-SCHOOL TRIPS ONLY - 2018 EXISTING

To From	Central	Hemet/San Jacinto	Northwest	Pass Area	Southwest	Outside WRCOG	TOTAL
Central	110,735	3,642	21,950	387	16,486	6,055	159,255
Hemet/San Jacinto	8,004	43,231	162	666	2,726	70	54,859
Northwest	20,225	79	221,291	28	2,091	56,821	300,535
Pass Area	1,326	1,697	103	16,564	7	4,939	24,635
Southwest	19,735	3,035	4,593	7	138,861	1,084	167,315
Outside WRCOG	6,136	402	60,940	5,117	10,948	5,978,607	6,062,150
TOTAL	166,161	52,086	309,039	22,769	171,120	6,047,576	6,768,750

EXHIBIT J-5 VMT BY WRCOG TUMF ZONE PEAK PERIOD NON-HOME-BASED TRIPS ONLY - 2018 EXISTING

To From	Central	Hemet/San Jacinto	Northwest	Pass Area	Southwest	Outside WRCOG	TOTAL
Central	116,617	17,407	82,092	6,004	49,146	58,568	329,833
Hemet/San Jacinto	20,422	60,529	6,881	9,918	17,117	18,684	133,551
Northwest	61,455	2,779	414,635	2,683	14,253	282,505	778,310
Pass Area	12,768	11,566	8,715	49,680	1,935	47,061	131,725
Southwest	40,694	13,037	27,856	1,225	237,362	49,558	369,732
Outside WRCOG	65,953	13,263	341,047	28,498	87,982	22,327,971	22,864,713
TOTAL	317,908	118,582	881,227	98,008	407,795	22,784,346	24,607,865

EXHIBIT J-6 VMT BY WRCOG TUMF ZONE PEAK PERIOD HOME-BASED-UNIVERSITY TRIPS ONLY - 2018 EXISTING

To From	Central	Hemet/San Jacinto	Northwest	Pass Area	Southwest	Outside WRCOG	TOTAL
Central	18,096	11,373	40,399	384	3,534	25,445	99,231
Hemet/San Jacinto	2,056	10,293	2,922	220	523	4,304	20,318
Northwest	7,195	2,406	92,914	152	1,007	62,109	165,784
Pass Area	1,747	4,677	3,824	587	80	7,554	18,470
Southwest	14,080	13,775	29,881	293	19,353	65,853	143,236
Outside WRCOG	14,614	12,092	163,514	1,433	3,734	1,866,606	2,061,994
TOTAL	57,788	54,616	333,455	3,070	28,232	2,031,871	2,509,032

EXHIBIT J-7 VMT BY WRCOG TUMF ZONE TOTAL OFF PEAK TRIPS FOR ALL PURPOSES - 2018 EXISTING

To From	Central	Hemet/San Jacinto	Northwest	Pass Area	Southwest	Outside WRCOG	TOTAL
Central	801,662	128,869	640,224	56,860	339,965	988,339	2,955,918
Hemet/San Jacinto	140,692	363,274	109,533	65,159	132,656	415,778	1,227,093
Northwest	340,558	37,798	2,341,566	37,213	141,992	2,394,837	5,293,964
Pass Area	67,550	54,436	80,501	191,165	19,798	353,246	766,697
Southwest	330,176	130,997	414,647	31,788	1,358,749	1,284,306	3,550,663
Outside WRCOG	569,970	187,134	2,517,328	247,784	764,704	97,045,358	101,332,277
TOTAL	2,250,608	902,509	6,103,800	629,968	2,757,864	102,481,863	115,126,612

EXHIBIT J-8 VMT BY WRCOG TUMF ZONE OFF PEAK HOME-BASED-WORK TRIPS ONLY - 2018 EXISTING

To From	Central	Hemet/San Jacinto	Northwest	Pass Area	Southwest	Outside WRCOG	TOTAL
Central	64,053	23,015	164,150	25,429	78,516	519,620	874,784
Hemet/San Jacinto	27,710	20,523	51,954	19,949	40,698	244,713	405,547
Northwest	57,811	15,473	261,251	21,801	56,354	811,368	1,224,059
Pass Area	10,592	6,429	27,063	12,994	8,220	128,530	193,828
Southwest	65,794	29,706	153,862	20,870	157,689	724,854	1,152,774
Outside WRCOG	187,105	76,293	763,815	115,048	322,353	17,962,924	19,427,539
TOTAL	413,065	171,439	1,422,095	216,091	663,831	20,392,010	23,278,531

EXHIBIT J-9 VMT BY WRCOG TUMF ZONE OFF PEAK HOME-BASED-OTHER TRIPS ONLY - 2018 EXISTING

To From	Central	Hemet/San Jacinto	Northwest	Pass Area	Southwest	Outside WRCOG	TOTAL
Central	518,247	66,043	291,090	21,528	180,073	324,734	1,401,715
Hemet/San Jacinto	77,692	230,275	41,945	28,302	64,944	130,834	573,991
Northwest	181,766	15,629	1,296,905	11,001	63,383	1,010,885	2,579,569
Pass Area	35,416	25,064	34,290	99,409	8,287	138,571	341,037
Southwest	181,290	62,892	165,057	8,746	793,860	357,826	1,569,671
Outside WRCOG	262,051	76,387	1,010,627	87,034	296,373	42,030,568	43,763,040
TOTAL	1,256,461	476,289	2,839,914	256,020	1,406,920	43,993,419	50,229,023

EXHIBIT J-10 VMT BY WRCOG TUMF ZONE OFF PEAK HOME-BASED-SCHOOL TRIPS ONLY - 2018 EXISTING

To From	Central	Hemet/San Jacinto	Northwest	Pass Area	Southwest	Outside WRCOG	TOTAL
Central	29,899	1,018	5,963	112	4,495	1,879	43,367
Hemet/San Jacinto	2,171	11,723	46	212	743	22	14,915
Northwest	5,315	22	59,984	8	572	16,387	82,287
Pass Area	367	460	31	4,489	2	1,358	6,707
Southwest	5,242	828	1,239	2	37,812	304	45,428
Outside WRCOG	1,679	106	16,999	1,337	2,522	1,608,845	1,631,488
TOTAL	44,671	14,158	84,261	6,159	46,147	1,628,796	1,824,191

EXHIBIT J-11 VMT BY WRCOG TUMF ZONE OFF PEAK NON-HOME-BASED TRIPS ONLY - 2018 EXISTING

To From	Central	Hemet/San Jacinto	Northwest	Pass Area	Southwest	Outside WRCOG	TOTAL
Central	171,868	26,165	127,774	9,573	74,861	103,539	513,780
Hemet/San Jacinto	31,023	89,467	11,465	16,561	25,978	33,500	207,994
Northwest	88,808	4,136	620,263	4,317	21,165	472,709	1,211,397
Pass Area	19,327	17,223	13,991	73,960	3,239	74,839	202,580
Southwest	61,789	19,268	45,891	1,951	356,701	84,988	570,589
Outside WRCOG	103,831	20,636	536,313	43,581	141,283	33,374,718	34,220,361
TOTAL	476,647	176,895	1,355,697	149,943	623,228	34,144,292	36,926,701

EXHIBIT J-12 VMT BY WRCOG TUMF ZONE OFF PEAK HOME-BASED-UNIVERSITY TRIPS ONLY - 2018 EXISTING

To From	Central	Hemet/San Jacinto	Northwest	Pass Area	Southwest	Outside WRCOG	TOTAL
Central	17,594	12,628	51,247	218	2,019	38,566	122,272
Hemet/San Jacinto	2,097	11,286	4,124	136	292	6,709	24,645
Northwest	6,858	2,539	103,163	86	517	83,488	196,652
Pass Area	1,849	5,259	5,127	313	49	9,947	22,544
Southwest	16,062	18,302	48,598	219	12,688	116,334	212,202
Outside WRCOG	15,304	13,712	189,575	784	2,172	2,068,303	2,289,850
TOTAL	59,764	63,727	401,834	1,755	17,738	2,323,347	2,868,164

EXHIBIT J-13 VMT BY WRCOG TUMF ZONE TOTAL DAILY TRIPS FOR ALL PURPOSES - 2018 EXISTING

To From	Central	Hemet/San Jacinto	Northwest	Pass Area	Southwest	Outside WRCOG	TOTAL
Central	1,886,231	305,013	1,560,174	155,627	834,808	2,660,619	7,402,471
Hemet/San Jacinto	342,975	837,544	299,154	158,370	340,527	1,152,514	3,131,082
Northwest	811,797	100,707	5,424,449	106,702	377,177	5,895,035	12,715,867
Pass Area	154,507	121,047	201,110	421,411	50,814	884,999	1,833,889
Southwest	804,289	319,636	1,050,082	93,323	3,181,580	3,524,801	8,973,711
Outside WRCOG	1,403,634	481,075	6,101,478	651,086	2,010,260	226,762,371	237,409,905
TOTAL	5,403,432	2,165,023	14,636,446	1,586,519	6,795,166	240,880,340	271,466,925

EXHIBIT J-14 VMT BY WRCOG TUMF ZONE DAILY HOME-BASED-WORK TRIPS ONLY - 2018 EXISTING

To From	Central	Hemet/San Jacinto	Northwest	Pass Area	Southwest	Outside WRCOG	TOTAL
Central	229,295	82,007	575,590	91,051	276,409	1,740,397	2,994,749
Hemet/San Jacinto	98,516	74,328	180,712	68,847	143,988	812,107	1,378,498
Northwest	201,151	52,731	935,927	74,986	192,540	2,732,003	4,189,337
Pass Area	36,574	22,095	92,709	47,281	27,201	433,163	659,022
Southwest	231,030	106,243	529,869	70,200	568,071	2,445,955	3,951,368
Outside WRCOG	608,054	245,727	2,541,054	375,209	1,075,753	63,102,754	67,948,550
TOTAL	1,404,620	583,131	4,855,859	727,574	2,283,962	71,266,379	81,121,525

EXHIBIT J-15 VMT BY WRCOG TUMF ZONE DAILY HOME-BASED-OTHER TRIPS ONLY - 2018 EXISTING

To From	Central	Hemet/San Jacinto	Northwest	Pass Area	Southwest	Outside WRCOG	TOTAL
Central	1,192,127	150,772	655,160	47,898	407,857	686,170	3,139,984
Hemet/San Jacinto	178,686	536,686	92,843	61,811	149,158	277,118	1,296,302
Northwest	420,789	36,015	2,976,272	24,442	145,031	2,189,015	5,791,564
Pass Area	80,549	58,070	76,610	228,537	18,300	306,138	768,205
Southwest	415,659	145,147	362,155	19,425	1,810,733	760,724	3,513,843
Outside WRCOG	588,064	175,138	2,252,036	195,127	685,865	96,434,568	100,330,798
TOTAL	2,875,873	1,101,828	6,415,076	577,241	3,216,945	100,653,734	114,840,696

EXHIBIT J-16 VMT BY WRCOG TUMF ZONE DAILY HOME-BASED-SCHOOL TRIPS ONLY - 2018 EXISTING

To From	Central	Hemet/San Jacinto	Northwest	Pass Area	Southwest	Outside WRCOG	TOTAL
Central	140,634	4,660	27,913	499	20,981	7,934	202,622
Hemet/San Jacinto	10,175	54,954	207	877	3,469	92	69,775
Northwest	25,540	101	281,274	36	2,663	73,208	382,822
Pass Area	1,692	2,157	134	21,053	9	6,297	31,343
Southwest	24,977	3,864	5,832	9	176,673	1,388	212,743
Outside WRCOG	7,814	508	77,939	6,454	13,470	7,587,452	7,693,638
TOTAL	210,832	66,244	393,299	28,928	217,266	7,676,372	8,592,941

EXHIBIT J-17 VMT BY WRCOG TUMF ZONE DAILY NON-HOME-BASED TRIPS ONLY - 2018 EXISTING

To From	Central	Hemet/San Jacinto	Northwest	Pass Area	Southwest	Outside WRCOG	TOTAL
Central	288,485	43,572	209,866	15,577	124,008	162,106	843,613
Hemet/San Jacinto	51,445	149,996	18,346	26,479	43,095	52,184	341,544
Northwest	150,263	6,915	1,034,898	7,000	35,418	755,213	1,989,708
Pass Area	32,095	28,790	22,706	123,641	5,174	121,900	334,305
Southwest	102,482	32,305	73,748	3,176	594,063	134,546	940,320
Outside WRCOG	169,784	33,899	877,360	72,079	229,264	55,702,689	57,085,075
TOTAL	794,554	295,477	2,236,924	247,951	1,031,023	56,928,638	61,534,566

EXHIBIT J-18 VMT BY WRCOG TUMF ZONE DAILY HOME-BASED-UNIVERSITY TRIPS ONLY - 2018 EXISTING

To From	Central	Hemet/San Jacinto	Northwest	Pass Area	Southwest	Outside WRCOG	TOTAL
Central	35,690	24,001	91,646	601	5,553	64,011	221,503
Hemet/San Jacinto	4,153	21,580	7,046	356	815	11,012	44,963
Northwest	14,054	4,945	196,077	238	1,525	145,596	362,435
Pass Area	3,596	9,936	8,951	900	129	17,502	41,014
Southwest	30,142	32,078	78,478	512	32,040	182,188	355,438
Outside WRCOG	29,918	25,804	353,089	2,217	5,906	3,934,909	4,351,844
TOTAL	117,553	118,344	735,288	4,825	45,970	4,355,218	5,377,197

EXHIBIT J-19 VMT BY WRCOG TUMF ZONE TOTAL PEAK PERIOD TRIPS FOR ALL PURPOSES - 2045 NO BUILD

To From	Central	Hemet/San Jacinto	Northwest	Pass Area	Southwest	Outside WRCOG	TOTAL
Central	1,799,333	331,707	1,246,839	150,237	725,077	2,074,041	6,327,234
Hemet/San Jacinto	419,876	828,755	285,137	155,667	345,759	1,006,889	3,042,083
Northwest	719,180	87,427	3,652,429	90,736	283,636	3,816,550	8,649,959
Pass Area	166,143	123,928	189,122	408,274	39,950	805,993	1,733,411
Southwest	823,445	350,410	894,926	84,115	3,062,054	3,170,545	8,385,495
Outside WRCOG	1,208,763	420,070	4,001,373	598,622	1,482,553	151,663,404	159,374,786
TOTAL	5,136,740	2,142,297	10,269,827	1,487,652	5,939,029	162,537,422	187,512,968

Based on RivCOM Year 2045 No-Build Scenario, November 2023

EXHIBIT J-20 VMT BY WRCOG TUMF ZONE PEAK PERIOD HOME-BASED-WORK TRIPS ONLY - 2045 NO BUILD

To From	Central	Hemet/San Jacinto	Northwest	Pass Area	Southwest	Outside WRCOG	TOTAL
Central	373,364	119,251	639,446	100,864	284,454	1,576,209	3,093,588
Hemet/San Jacinto	172,286	134,504	208,376	88,310	169,783	827,421	1,600,680
Northwest	244,964	48,849	905,169	66,860	143,376	2,007,531	3,416,748
Pass Area	69,297	34,601	118,258	72,874	25,101	465,215	785,345
Southwest	346,327	152,164	600,641	69,322	654,211	2,572,563	4,395,228
Outside WRCOG	627,554	220,846	2,057,129	369,322	678,800	52,699,890	56,653,540
TOTAL	1,833,791	710,214	4,529,019	767,551	1,955,725	60,148,829	69,945,130

Based on RivCOM Year 2045 No-Build Scenario, November 2023

EXHIBIT J-21 VMT BY WRCOG TUMF ZONE PEAK PERIOD HOME-BASED-OTHER TRIPS ONLY - 2045 NO BUILD

To From	Central	Hemet/San Jacinto	Northwest	Pass Area	Southwest	Outside WRCOG	TOTAL
Central	1,062,642	154,854	432,156	38,451	340,614	392,364	2,421,080
Hemet/San Jacinto	190,962	506,337	65,022	49,916	143,277	154,174	1,109,688
Northwest	352,592	31,203	1,941,227	19,896	116,947	1,347,877	3,809,741
Pass Area	73,295	60,143	56,197	230,606	12,927	245,844	679,013
Southwest	365,033	139,169	213,955	13,093	1,806,167	430,821	2,968,236
Outside WRCOG	473,253	165,371	1,354,389	176,377	669,783	64,072,996	66,912,168
TOTAL	2,517,777	1,057,076	4,062,946	528,338	3,089,715	66,644,076	77,899,927

Based on RivCOM Year 2045 No-Build Scenario, November 2023

EXHIBIT J-22 VMT BY WRCOG TUMF ZONE PEAK PERIOD HOME-BASED-SCHOOL TRIPS ONLY - 2045 NO BUILD

To From	Central	Hemet/San Jacinto	Northwest	Pass Area	Southwest	Outside WRCOG	TOTAL
Central	136,895	5,994	23,940	484	20,215	6,298	193,827
Hemet/San Jacinto	13,675	57,088	301	975	4,113	107	76,259
Northwest	23,198	110	237,602	33	2,279	66,566	329,788
Pass Area	1,880	2,406	139	26,717	7	9,600	40,749
Southwest	24,598	3,842	4,731	7	228,422	1,295	262,895
Outside WRCOG	6,723	624	64,150	5,947	16,481	6,271,751	6,365,676
TOTAL	206,969	70,065	330,863	34,163	271,517	6,355,617	7,269,194

EXHIBIT J-23 VMT BY WRCOG TUMF ZONE PEAK PERIOD NON-HOME-BASED TRIPS ONLY - 2045 NO BUILD

To From	Central	Hemet/San Jacinto	Northwest	Pass Area	Southwest	Outside WRCOG	TOTAL
Central	202,038	35,728	103,488	10,029	74,959	74,079	500,322
Hemet/San Jacinto	40,465	115,618	8,342	16,222	27,829	20,983	229,458
Northwest	89,752	4,817	459,879	3,793	19,949	335,223	913,414
Pass Area	19,244	20,136	9,751	77,216	1,839	73,705	201,892
Southwest	63,376	22,555	29,308	1,251	322,054	43,941	482,484
Outside WRCOG	88,138	21,358	372,582	45,519	113,947	26,519,796	27,161,341
TOTAL	503,012	220,212	983,351	154,031	560,578	27,067,727	29,488,911

EXHIBIT J-24 VMT BY WRCOG TUMF ZONE PEAK PERIOD HOME-BASED-UNIVERSITY TRIPS ONLY - 2045 NO BUILD

To From	Central	Hemet/San Jacinto	Northwest	Pass Area	Southwest	Outside WRCOG	TOTAL
Central	24,394	15,880	47,809	408	4,835	25,090	118,417
Hemet/San Jacinto	2,488	15,208	3,096	245	757	4,204	25,998
Northwest	8,674	2,448	108,552	155	1,085	59,353	180,268
Pass Area	2,428	6,642	4,777	861	76	11,629	26,412
Southwest	24,112	32,680	46,293	442	51,199	121,926	276,652
Outside WRCOG	13,096	11,872	153,123	1,456	3,543	2,098,971	2,282,060
TOTAL	75,191	84,731	363,649	3,568	61,494	2,321,174	2,909,807

EXHIBIT J-25 VMT BY WRCOG TUMF ZONE TOTAL OFF PEAK TRIPS FOR ALL PURPOSES - 2045 NO BUILD

To From	Central	Hemet/San Jacinto	Northwest	Pass Area	Southwest	Outside WRCOG	TOTAL
Central	1,318,612	243,507	855,399	90,116	512,253	1,362,381	4,382,268
Hemet/San Jacinto	307,848	620,261	182,200	112,414	232,480	632,480	2,087,683
Northwest	514,466	58,795	2,686,245	50,935	187,731	2,945,148	6,443,318
Pass Area	125,325	101,371	126,342	322,595	27,752	586,766	1,290,151
Southwest	594,702	254,789	612,135	48,790	2,229,187	1,999,442	5,739,044
Outside WRCOG	857,986	292,176	2,897,700	380,089	960,617	114,223,362	119,611,929
TOTAL	3,718,939	1,570,899	7,360,021	1,004,939	4,150,019	121,749,579	139,554,395

EXHIBIT J-26 VMT BY WRCOG TUMF ZONE OFF PEAK HOME-BASED-WORK TRIPS ONLY - 2045 NO BUILD

To From	Central	Hemet/San Jacinto	Northwest	Pass Area	Southwest	Outside WRCOG	TOTAL
Central	139,109	48,317	252,879	40,263	116,636	745,260	1,342,464
Hemet/San Jacinto	68,574	47,643	92,129	35,673	67,839	402,851	714,710
Northwest	98,150	23,283	337,214	28,227	65,852	940,673	1,493,399
Pass Area	28,513	15,183	50,763	26,317	12,905	221,065	354,746
Southwest	143,010	60,883	254,955	32,890	244,955	1,155,616	1,892,308
Outside WRCOG	302,064	116,183	938,244	166,464	326,211	21,226,888	23,076,054
TOTAL	779,420	311,492	1,926,184	329,834	834,398	24,692,353	28,873,681

EXHIBIT J-27 VMT BY WRCOG TUMF ZONE OFF PEAK HOME-BASED-OTHER TRIPS ONLY - 2045 NO BUILD

To From	Central	Hemet/San Jacinto	Northwest	Pass Area	Southwest	Outside WRCOG	TOTAL
Central	817,753	121,802	362,911	33,093	271,714	415,042	2,022,315
Hemet/San Jacinto	161,868	374,441	65,747	46,266	116,874	172,568	937,763
Northwest	270,238	25,096	1,486,279	16,476	90,978	1,281,165	3,170,231
Pass Area	61,546	47,031	50,231	174,731	11,410	223,207	568,155
Southwest	303,367	111,492	202,017	12,889	1,405,767	465,133	2,500,666
Outside WRCOG	387,066	126,440	1,130,769	140,486	452,722	49,373,980	51,611,462
TOTAL	2,001,838	806,301	3,297,953	423,940	2,349,465	51,931,094	60,810,592

EXHIBIT J-28 VMT BY WRCOG TUMF ZONE OFF PEAK HOME-BASED-SCHOOL TRIPS ONLY - 2045 NO BUILD

To From	Central	Hemet/San Jacinto	Northwest	Pass Area	Southwest	Outside WRCOG	TOTAL
Central	37,552	1,684	7,015	142	5,504	2,210	54,106
Hemet/San Jacinto	4,077	15,458	110	341	1,168	42	21,196
Northwest	6,276	32	64,909	10	605	20,422	92,254
Pass Area	563	684	47	7,234	2	2,659	11,190
Southwest	6,927	1,090	1,449	3	62,653	584	72,705
Outside WRCOG	2,040	166	19,074	1,704	3,185	1,683,458	1,709,627
TOTAL	57,435	19,114	92,604	9,433	73,117	1,709,376	1,961,079

EXHIBIT J-29 VMT BY WRCOG TUMF ZONE OFF PEAK NON-HOME-BASED TRIPS ONLY - 2045 NO BUILD

To From	Central	Hemet/San Jacinto	Northwest	Pass Area	Southwest	Outside WRCOG	TOTAL
Central	299,738	55,092	169,871	16,381	115,948	153,204	810,234
Hemet/San Jacinto	70,174	166,706	18,278	29,966	46,159	47,597	378,880
Northwest	131,414	7,633	681,134	6,136	29,764	610,663	1,466,744
Pass Area	31,940	31,225	18,232	113,898	3,385	123,898	322,577
Southwest	104,433	36,376	55,746	2,580	484,258	98,486	781,879
Outside WRCOG	151,333	34,517	620,329	70,600	176,455	39,604,640	40,657,873
TOTAL	789,032	331,549	1,563,590	239,561	855,969	40,638,488	44,418,188

EXHIBIT J-30 VMT BY WRCOG TUMF ZONE OFF PEAK HOME-BASED-UNIVERSITY TRIPS ONLY - 2045 NO BUILD

To From	Central	Hemet/San Jacinto	Northwest	Pass Area	Southwest	Outside WRCOG	TOTAL
Central	24,461	16,612	62,722	237	2,451	46,666	153,148
Hemet/San Jacinto	3,155	16,013	5,936	169	440	9,422	35,134
Northwest	8,389	2,752	116,708	85	532	92,226	220,691
Pass Area	2,763	7,248	7,069	416	50	15,937	33,483
Southwest	36,965	44,949	97,968	427	31,554	279,623	491,486
Outside WRCOG	15,482	14,869	189,285	835	2,045	2,334,396	2,556,912
TOTAL	91,214	102,442	479,690	2,170	37,070	2,778,268	3,490,855

EXHIBIT J-31 VMT BY WRCOG TUMF ZONE TOTAL DAILY TRIPS FOR ALL PURPOSES - 2045 NO BUILD

To From	Central	Hemet/San Jacinto	Northwest	Pass Area	Southwest	Outside WRCOG	TOTAL
Central	3,117,946	575,214	2,102,238	240,353	1,237,329	3,436,422	10,709,502
Hemet/San Jacinto	727,723	1,449,016	467,337	268,082	578,239	1,639,369	5,129,767
Northwest	1,233,645	146,222	6,338,674	141,671	471,367	6,761,699	15,093,278
Pass Area	291,468	225,299	315,464	730,869	67,702	1,392,759	3,023,562
Southwest	1,418,147	605,199	1,507,061	132,904	5,291,241	5,169,987	14,124,539
Outside WRCOG	2,066,749	712,246	6,899,073	978,711	2,443,170	265,886,766	278,986,715
TOTAL	8,855,679	3,713,196	17,629,848	2,492,590	10,089,048	284,287,001	327,067,363

EXHIBIT J-32 VMT BY WRCOG TUMF ZONE DAILY HOME-BASED-WORK TRIPS ONLY - 2045 NO BUILD

To From	Central	Hemet/San Jacinto	Northwest	Pass Area	Southwest	Outside WRCOG	TOTAL
Central	512,473	167,568	892,325	141,127	401,091	2,321,469	4,436,052
Hemet/San Jacinto	240,860	182,148	300,505	123,983	237,623	1,230,272	2,315,390
Northwest	343,114	72,132	1,242,383	95,087	209,228	2,948,204	4,910,147
Pass Area	97,810	49,784	169,021	99,191	38,005	686,279	1,140,090
Southwest	489,337	213,047	855,596	102,212	899,166	3,728,179	6,287,536
Outside WRCOG	929,618	337,029	2,995,373	535,786	1,005,010	73,926,778	79,729,594
TOTAL	2,613,211	1,021,707	6,455,203	1,097,385	2,790,123	84,841,182	98,818,811

EXHIBIT J-33 VMT BY WRCOG TUMF ZONE DAILY HOME-BASED-OTHER TRIPS ONLY - 2045 NO BUILD

To From	Central	Hemet/San Jacinto	Northwest	Pass Area	Southwest	Outside WRCOG	TOTAL
Central	1,880,395	276,656	795,067	71,544	612,328	807,406	4,443,395
Hemet/San Jacinto	352,830	880,778	130,769	96,181	260,151	326,742	2,047,451
Northwest	622,829	56,299	3,427,506	36,372	207,925	2,629,041	6,979,972
Pass Area	134,842	107,173	106,427	405,337	24,337	469,052	1,247,168
Southwest	668,400	250,661	415,972	25,982	3,211,934	895,954	5,468,902
Outside WRCOG	860,319	291,810	2,485,158	316,863	1,122,505	113,446,976	118,523,630
TOTAL	4,519,614	1,863,377	7,360,898	952,278	5,439,180	118,575,170	138,710,519

EXHIBIT J-34 VMT BY WRCOG TUMF ZONE DAILY HOME-BASED-SCHOOL TRIPS ONLY - 2045 NO BUILD

To From	Central	Hemet/San Jacinto	Northwest	Pass Area	Southwest	Outside WRCOG	TOTAL
Central	174,447	7,678	30,955	627	25,718	8,507	247,933
Hemet/San Jacinto	17,752	72,546	411	1,316	5,281	149	97,455
Northwest	29,474	142	302,511	43	2,884	86,988	422,042
Pass Area	2,443	3,091	186	33,950	9	12,260	51,939
Southwest	31,524	4,932	6,180	10	291,076	1,879	335,600
Outside WRCOG	8,764	790	83,223	7,651	19,666	7,955,209	8,075,303
TOTAL	264,404	89,179	423,467	43,596	344,634	8,064,992	9,230,272

EXHIBIT J-35 VMT BY WRCOG TUMF ZONE DAILY NON-HOME-BASED TRIPS ONLY - 2045 NO BUILD

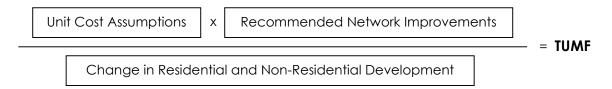
To From	Central	Hemet/San Jacinto	Northwest	Pass Area	Southwest	Outside WRCOG	TOTAL
Central	501,776	90,820	273,360	26,410	190,907	227,284	1,310,557
Hemet/San Jacinto	110,639	282,324	26,620	46,188	73,988	68,580	608,338
Northwest	221,166	12,450	1,141,014	9,929	49,713	945,886	2,380,158
Pass Area	51,183	51,361	27,984	191,114	5,224	197,603	524,469
Southwest	167,809	58,931	85,053	3,831	806,312	142,426	1,264,363
Outside WRCOG	239,471	55,876	992,911	116,119	290,402	66,124,436	67,819,215
TOTAL	1,292,044	551,761	2,546,941	393,592	1,416,547	67,706,215	73,907,099

EXHIBIT J-36 VMT BY WRCOG TUMF ZONE DAILY HOME-BASED-UNIVERSITY TRIPS ONLY - 2045 NO BUILD

To From	Central	Hemet/San Jacinto	Northwest	Pass Area	Southwest	Outside WRCOG	TOTAL
Central	48,855	32,492	110,531	645	7,286	71,756	271,565
Hemet/San Jacinto	5,642	31,221	9,033	414	1,197	13,626	61,132
Northwest	17,063	5,200	225,260	240	1,617	151,579	400,959
Pass Area	5,191	13,890	11,846	1,278	126	27,566	59,896
Southwest	61,077	77,629	144,261	870	82,752	401,549	768,138
Outside WRCOG	28,578	26,741	342,408	2,292	5,587	4,433,366	4,838,972
TOTAL	166,406	187,172	843,339	5,738	98,564	5,099,442	6,400,662

Appendix K - Residential Fee Calculation

In general, the fee for the TUMF program is calculated based on the following formula:



Applying this formula, Unit Cost Assumptions for the various eligible TUMF project types are used to estimate the overall cost to improve the TUMF Network as described in the TUMF Nexus Study. The resultant network improvement cost is then divided proportionally between various residential and non-residential development categories such that each new development type contributes its 'fair share' to the program. Any change in one formula variable has a related impact on the overall TUMF fee, although it is important to note that the resultant impact to the overall fee is not necessarily directly proportional to the formula variable change due to the intricacies of the fee calculation.

The residential fee was calculated by multiplying the estimated TUMF Network improvements cost attributable to mitigating the cumulative regional impacts of new development (**Section 4.0**) by the proportion of all regional trips that are generated by residential land uses (**Section 5.3**), and dividing this number by the projected increase in residential units between 2018 and 2045 (**Table 2.3**).

To account for the difference in trip generation rates between single-family residential units and multi-family residential units, the fee value was normalized for each of these housing types by first multiplying the proposed growth in households between 2018 and 2045 by the existing proportional share of each household type, and then multiplying the resultant values by the respective trip generation rate as published in the Institute of Traffic Engineers <u>Trip Generation Manual</u>, Eleventh Edition, 2021. The respective fee values are presented in **Section 6.1**. **Exhibit K-1** details the calculation of the residential fee (and non-residential fee).

EXHIBIT K-1 Western Riverside County TUMF Estimate by Percent of TUMF Share Weighted by PM Peak Hour Trip Generation Rate

Based on Needed Improvements to the Regional System of Highways and Arterials

Residential		Dwelling Units		PM Peak Hour Trip	PM Peak Hour Trip	Percentage of PM Peak Hour Trip		Fee/DU
Residential	2018	2045	Change	Generation Rate	Change	Change		Tee/D0
Single Family Residential	397,407	564,898	167,491	0.99	165,816	78.6%		\$15,476
Multi Family Residential	157,166	247,501	90,335	0.50	45,168	21.4%		\$7,816
Total	554,573	812,399	257,826		210,984	100.0%		
Non-Basidaniini		Employees		PM Peak Hour Trip	Peak Hour Trip Char	Percentage of PM	Change in SF of	F /SF - 1 C FA
Non-Residential	2018	2045	Change	Generation Rate	reak Hour Irip Char	Peak Hour Trip Change	GFA	Fee/SF of GFA
Industrial	169,334	245,915	76,581	0.6	45,949	15.1%	61,489,565	\$2.33
Retail	73,814	86,929	13,115	1.8	23,607	7.8%	6,557,500	\$11.21
Service	308,703	482,958	174,255	1.2	209,106	68.8%	66,735,957	\$9.76
Government/Public Sector	18,569	30,640	12,071	2.1	25,349	8.3%	3,420,665	\$23.07
Total	570,420	846,442	276,022		304,011	100.0%	138,203,688	

Notes:

- trip generation rates based on ITE Trip Generation 11th Edition (2021) rates for weekday PM peak hour by generator trip ends
- residential formula: [(TUMF cost share)(residential share of VMT) / (change in housing units)] * (percentage of trip change)
- non-residential formula: [(TUMF cost share)(non-residential share of VMT) / (change in SF of GFA)] * (percentage of trip change)

Calculation Inputs:

residential share of daily VMT

non-residential share of daily VMT

total regional mitigation cost
existing obligated improvement funding
unfunded existing need cost

\$5,283,909,000

\$382,886,000

\$464,931,000

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MAX TUMF VALUE	\$4,244,608,000
MAX TUMF SHARE	80.3%
Residential Value	\$3,298,060,000
Non-Residential Value	\$946,548,000

Updated: July 23, 2024

Appendix L - Non-Residential Fee Calculation

The non-residential fee was calculated by multiplying the estimated Regional System of Highways and Arterials improvements cost attributable to new development (**Section 4.0**) by the proportion of all regional trips that are generated by non-residential land uses (**Section 5.3**), and dividing this number by the projected increase in non-residential land use between 2018 and 2045 (**Table 2.3**, **Section 2.0**) and the proportional share of new employees in each sector.

In preparation for the fee calculation, SCAG 2020 RTP/SCS employment data by sector was first converted to land use as square feet of gross floor area (SF GFA). Non-residential employee to gross floor area conversion factors were derived from four sources. These sources are:

- Cordoba Corporation/Parsons Brinckerhoff Quade and Douglas, Inc. (PBQD), Land Use Density Conversion Factors For The Long-Range Corridor Study San Bernardino and Riverside Counties, August 20, 1990. Table 8.
- Orange County Transportation Authority (OCTA), <u>Orange County Subarea</u>
 <u>Modeling Guidelines Manual</u>, June 2001. Appendix C.
- Southern California Association of Governments (SCAG), <u>Employment Density</u> <u>Study</u>, October 31, 2001, Table IIB
- County of Riverside, <u>General Plan</u>, As Amended December 15, 2015, Appendix E:
 Socioeconomic Build-Out Projections Assumptions & Methodology, Table E-5

The employment conversion factors developed for use in the calculation of the non-residential fee are tabulated in **Exhibits L-1** through **L-4**. The relevant sections of these respective publications are included in this Appendix as **Exhibits L-5** through **L-8**.

To account for the difference in trip generation rates between the various employment sectors, the non-residential fee value for each sector was normalized by multiplying by the respective median trip generation rate for the range of associated land use types as published in the Institute of Traffic Engineers <u>Trip Generation Manual</u>, Eleventh Edition, 2021. The respective fee values are presented in **Section 6.2**. The table detailing the calculation of the non-residential fee (and residential fee) is included in **Appendix K** as **Exhibit K-1**.

EXHIBIT L-1 Employment Conversion Factors

Employment Sector	Business by Land Use Category (1)	Employees	Gross Floor Area (TSF)	Conversion Rate (Employees/TSF)	Land Use Category (2)	Minimum Range Conversion Rate (Employees/TSF)	Land Use Category (3)	SF per Employee based on Average Employees per Acre and Average FAR (Riverside County)	Employees/TSF	Land Use Category (4)	SF per Employee	Employees/TSF	TUMF Median Employment Conversion Factors (Employees/TSF)
	Heavy Manufacturing	6,379			R&D/LI/BP	2.50	R&D/Flex Space	867		Light Industrial	1030		
	General Manufacturing	11.603			Heavy Industry	2.00	Liaht Manufacturina	1548		Heavy Industry	1500		
	Light Manufacturing	8,624	3,962	2.18	Warehouse	1.00	Warehouse	1195					
	Manufacturing, Small Module	5.559	3.038	1.83									
	High Tech/Research	954	411	2.32									
	Wholesale, Trade Industry	6,120	4,140	1.48									
	Warehousing	119		0.43									
	General Industry	1,023	917	1.12									
	Median				Median	2.00	Median	1195.0	0.84	Median	1265.0	0.79	1.25
	Retail Trade	34,821	20,125	1.73			Regional Retail	268		Commercial Retail	500		
	Personnal, Rental and Repair	3,452		2.17			Other Retail/Service	629					
	Equipment Rental	1,080	453	2.38									
Retail	General Commercial	12,978	17,023	0.76									
	Median			1.95			Median	448.5	2.23	Median	500.0	2.00	2.00
	Financial/Insurance/Real Estate	7,738			Office	3.00	Low-Rise Office	481		Commercial Office	300		
	Small Office	3,945			Medical/PO/Bank	3.50	Hotel/Motel	3476		Business Park	600		
	Professional Services	5,470			Hospital	2.50							
	Business Services General Offices	6,680	1,966		Restaurant	3.00							
	Medical Services	8,900		2.29									
	Restaurant	9,006	3,201	2.81									
	Median	23.345	4.061	5.75	l								2.61
	mediaii			3.58	Median Government/Civic	3.00 3.00	Median Government Offices	1978.5 208	0.51	Median	450.0	2.22	2.61
						1.50	Government Offices	∠∪8					
Government/Public Sector					Librarv	1.50							
					Median	2.25	Median	208.0	4.81				3.53

[|] Median | M

EXHIBIT L-2 Population and Employment Estimates

Sector	2018	2045	Change	Employee Conversion Factor / TSF	Change in SF of GFA
Population	1,905,440	2,533,876	628,436		
Households					
Single-Family	397,407	564,898	167,491		
Multi-Family	157,166	247,501	90,335		
Totals	554,573	812,399	257,826		
Employees					
Industrial	169,334	245,915	76,581	1.25	61,489,565
Retail	73,814	86,929	13,115	2.00	6,557,500
Service	308,703	482,958	174,255	2.61	66,735,957
Government/Public Sector	18,569	30,640	12,071	3.53	3,420,665
Totals	570,420	846,442	276,022		138,203,688

Source: SCAG 2020 RTP/SCS; RivCOM

EXHIBIT L-3 Trip Generation Rate Comparison

Non-Residential									
								Median Share PM	
			ITE Median PM		Trip Growth	Calculated PM	Weighted Median	Peak Period Pass By	Adjusted PM Peak
			Peak Hour Trips	ITE Median PM Peak	(SFGrowth *	Peak Hour Trips per	PM Peak Hour Trips	Trips (Retail and	Hour Trips Per
	Employee Growth	SF Growth	Per Employee	Hour Trips per TSF	ITEMedian)	Employee	Per Employee	Service Uses)	Employee
Industrial	76,581	61,489,565	0.7	0.6	36,894	0.5	0.6		0.6
Retail	13,115	6,557,500	3.3	5.0	32,788	2.5	2.9	37%	1.8
Service	174,255	66,735,957	2.2	5.7	380,395	2.2	2.2	44%	1.2
Government/Public Sector	12,071	3,420,665	3.3	3.2	10,946	0.9	2.1		2.1
	276,022	138,203,688			461,022				

EXHIBIT L-4 Representative ITE Weekday PM Peak Hour Trip Generation Rates

RES		

Land Use Category	ITF Reference		PM Peak Hour Trip Ends per Residents
Single Family Residential			
Single Family Detached Housing	210	0.99	0.28
Multi Family			
Single-Family Attached Housing	215	0.61	0.44
Multifamily Housing (Low-Rise) Not Close to Rail Transit	220	0.57	0.27
Multifamily Housing (Mid-Rise) Not Close to Rail Transit	221	0.39	0.23
Multifamily Housing (High-Rise) Not Close to Rail Transit	222	0.40	
Affordable Housing - Income Limits	223	0.50	0.14
Average		0.49	0.27
Median		0.50	0.25
NON RECIPENTIAL			

Median		0.50	0.25	
NON-RESIDENTIAL				
Land Use Category	ITE Reference	PM Peak Hour	PM Peak Hour Trip Ends per Employee'	PM Peak Period
Industrial	TIE KOIGIGIICG	inp that per isi	IIIp Elias pel Eliipioyee	1 das by IIIps
Intermodal Truck Terminal	30	1.89	0.72	
General Light Industry Industrial Park	110 130	0.80	0.69 0.42	
Manufacturing	140	0.80	0.40	
Warehousing	150	0.23	0.68	
High-Cube Transload and Short-Term Storage High-Cube Fulfillment Center Warehouse - Non-Sort	154 155	0.17 0.27		
High-Cube Parcel Hib Warehouse	156	0.71		
Average		0.66	0.58	
Median Retail		0.56	0.68	
Building Materials and Lumber	812	2.65	3.30	
Free-Standing Discount Superstore Variety Store	813 814	4.39 7.42	1.75 12.65	29% 34%
Free-Standing Discount Store	815	5.42	2.36	20%
Hardware/Paint Store	816		3.77	26%
Nursery (Garden Center) Nursery (Wholesale)	817 818	8.37 5.01	2.55 0.59	
Shopping Center	820	4.09	1.91	
Shopping Center (150K to 300K) Shopping Center (300K to 900 K)	820			29%
Shopping Center (300K to 900 K) Shopping Plaza with Supermarket	820 821	9.72		19%
Shopping Plaza without Supermarket	821	5.40	1.80	
Shopping Plaza	821	1004	10.15	40%
Strip Retail Plaza Factory Outlet Center	822 823	13.24 1.94	10.15	
Automobile Sales (New)	840	2.65	1.10	
Automobile Sales (Used) Automobile Parts Sales	841 843	4.92 5.88	2.27 4.27	43%
Tire Store	848	3.72	3.05	25%
Supermarket	850		3.37	24%
Convenience Store Convenience Market with Gasoline Pumps	851 853	53.51	34.33	
Discount Supermarket	854			
Discount Club	857	4.62	3.49	34%
Sporting Goods Superstore Home Improvement Superstore	861 862	2.58 3.21	0.93	42%
Electronics Superstore	863	4.48		40%
Pet Supply Superstore	866	2.19		
Book Superstore Department Store	868 875	14.00		
Apparel Store	876	4.20		
Pharmacy/Drugstore without Drive Through Window	880	8.62		53%
Pharmacy/Drugstore with Drive Through Window Marijuana Dispensary	881 882	11.23 24.57	7.79	49%
Furniture Store	890	0.70	1.01	53%
Liquor Store	899	17.00	5.98	
Gasoline/Service Station Convenience Store/Gas Station (none)	944 945		28.39 21.31	57%
Convenience Store/Gas Station (9 - 15 vehicle fueling positions)	945	56.38		75%
Average Median		9.54 4.97	6.87 3.30	38% 37%
Service		4.97	3.30	3/76
Data Center	160	0.13		
Specialty Trade Contractor Movie Theatre	180 445	2.18 14.06	0.80 9.56	
Health/Fitness Club	492		7.36	
Day Care Center	565	11.82	4.66	44%
Hospital Nursing Home	610 620	0.98 0.82	0.33 0.45	
Clinic	630	4.22	2.49	
Animal Hospital/Veterinary Clinic	640 650	3.83 2.24	2.26	
Free Standing Emergency Room Small Office Building	712	3.15	1.90	
Medical-Dentist Office Building (Stand-Alone)	720	4.79	1.26	
Medical-Dentist Office Building (Within/Near Hospital Campus) Walk-in Bank	720 911	3.78 26.40	1.03 6.18	
Drive-in Bank	912	20.92	4.36	35%
Hair Salon	918	1.94		
Copy, Print and Express Ship Store Fast Casual Restaurant	920 930	12.30 18.57	6.63	
Fine Dining Restaurant	931	8.28	1.79	44%
High Turnover (Sit-Down) Restaurant	932	16.35	3.66	43%
Fast Food Restaurant with Drive Through Fast Food Restaurant with Drive Through No Seating	934 935	50.94	5.45	55% 31%
Coffee/Donut Shop with Drive Through	937	43.65		
Coffee/Donut Shop with Drive Through No Seating	938	0.40	0.17	98%
Quick Lube Vehicle Shop Automobile Care Center	941 942	9.42 3.51	2.17 1.43	
Automobile Parts and Service Center	943	2.61	1.80	
Wine Tasting Room Brewery Tap Room	970 971	6.60 10.93		
Drinking Place	971 975	15.53		
Average		10.85	3.06	50%
Median Government/Public Sector		5.70	2.17	44%
Recreational Community Center	495	2.53	2.71	
Elementary School	520		4.60	
Middle/Junior High School High School	522 525		4.83 3.32	
School District Office	528	2.37	0.84	
Private School (K-8)	530		5.72	
Private School (K-12) Private High School	532 534		2.82	
Charter Elementary School	536		10.64	
Charter School (K-12)	538		10.66	
Junior/Community College University/College	540 550		1.63	
Adult Detention Facility	571	0.94	0.51	
Library	590	8.53	6.81	
Government Office Building State Motor Vehicles Department	730 731	3.19 7.68	0.91 4.27	
Post Office	732	15.11	3.29	
Average Median		5.76 3.19	3.93 3.29	
Median Notes:		3.19	3.29	
* - Average weekday PM peak hour of generator trip end data de	erived from ITE Trip	Seneration Manua	al (11th Edition), Septemb	per 2021

Notes:

- Average weekday PM peak hour of generator trip and data derived from ITE Trip Generation Manual (11th Edition). September 2021

- Average weekday PM peak pass-by trip rates derived from ITE Trip Generation Manual (11th Edition). September 2021

EXHIBIT L-5

<u>Land Use Density Conversion Factors for the Long-Range Corridor Study San</u>
<u>Bernardino and Riverside Counties</u>, Table 8

Cordoba Corporation/Parsons Brinckerhoff Quade and Douglas, Inc. (PBQD), August 20, 1990.

TABLE 8
EMPLOYEES PER ACRE
RIVERSIDE COUNTY

	Employees *	Floor Space Sq. Ft.	Square Feet Per Employee	Average F.A.R	Employees per Acre
BUSINESS BY LAND USE		<u>.</u>	7 7		
Manufacturing/Industrial	40,383	23,968,000	594	0.25	18
Heavy Manufacturing	6,379	5,117,000	802	0.20	11
General Manufacturing	11,603	6,103,000	526	0.20	17
Light Manufacturing	8,624	3,962,000	459	0.25	24
Manufacturing, Small Module	5,559	3,038,000	547	0.25	20
High Tech Activity and Research	954	411,000	٠ 431	0.35	35
Wholesale Trade Industrial	6,120	4,140,000	676	0.25	16
Warehousing	119	279,000	2,345	0.25	5
General Industrial	1,023	917,000	896	0.20	10
Commercial	79,067	46,304,000	586	0.30	22
Retail Trade	34,821	20,125,000	578	0.30	23
Restaurants and Bars	23,345	4,061,000	174	0.30	75
Personnal, Rental and Repair Services	3,452	1,590,000	461	0.30	28
Automotive Repair Services	1,870	1,619,000	866	0.30	15
Equipment Rental	1,080	453,000	419	0.30	31
Wholesale, Trade Commercial	1,521	1,434,000	943	0.25	12
General Commercial	12,978	17,023,000	1,312	0.40	13
Office	41,740	12,226,000	293	0.50	74
Finance/Insurance/Real Estate	7,738	1,095,000	142	0.50	154
Finance/Insurance/RE/Small Office	3,945	548,000	139	0.50	1
Professional Services	5,470		280	0.50	l l
Business Services	6,680		294	0.50	1
General Office	8,900		437	0.50	
Medical Services	9,006	3,201,000	355	0.50	61

^{*} Employment figures do not include government, military and sole proprietorships. Source: Urban Decision Systems (1989), Census Zip Business Patterns (1986)

Filename: Trans rv

EXHIBIT L-6

<u>Orange County Subarea Modeling Guidelines Manual</u>, Appendix C

Orange County Transportation Authority (OCTA)

June 2001

TYPICAL EMPLOYMENT CONVERSION FACTORS (June 2001)

			cilipioyillelli Type (reficellate Kanges)	die Naliyes)
	Conversion Rates Range	Retail	Service	Other
	2.25 –2.75 employees/TSF ¹	%06 - %09	10% - 40%	0% – 5%
-	3.00 – 4.00 employees/TSF	0% – 5%	20% - 30%	65% - 80%
R&D/Light Industrial/Business Park 2.5	2.50 – 3.50 employees/TSF	0% – 5%	0% - 30%	60% - 100%
Heavy Industrial	2.00 – 2.50 employees/TSF	%0	%0	100%
Warehouse	1.00 – 2.00 employees/TSF	%0	%0	100%
Restaurant 3.0	3.00 – 5.00 employees/TSF	100%	%0	%0
Medical Office/Post-Offfice/Bank 3.5	3.50 – 4.50 employees/TSF	0% - 10%	70% - 100%	0% - 20%
Government Office/Civic Center 3.0	3.00 – 4.00 employees/TSF	0% – 5%	20% - 70%	25% - 50%
Hospital 2.5	2.50 – 3.00 employees/TSF	%0	20% · 80%	20% - 30%
Library/Museum	1.50 – 2.50 employees/TSF	%0	100%	%0
Hotel/Motel 0.73	0.75 – 1.25 employees/room	0% - 10%	%08 - %02	10% - 30%
Schools 0.08	0.08 – 0.12 employees/student	%0	%0	100%
Golf Course 0.5	0.50 - 0.70 employees/acre	0% - 10%	90% - 100%	%0
Developed Park/Athletic Fields 0.2	0.20 - 0.40 employees/acre	%0	80% - 100%	0% - 20%
Park 0.0	0.05 - 0.10 employees/acre	%0	80% - 100%	0% - 20%
Agricultural 0.0	0.01 - 0.05 employees/acre	%0	%0	100%

¹ Thousands of Square Feet

EXHIBIT L-7
Employment Density Study, Table IIB
Southern California, October 31, 2001

Table II-A
Derivation of Square Feet per Employee Based on:

⁻⁻MEDIAN FAR

Land Use Category	Los <u>Angeles</u>	Orange	Riverside Square	San <u>Bernardino</u> e Feet per Emp	<u>Ventura</u> loyee	Imperial	Region
Regional Retail		2,322	165	1,392	990		1,023
Other Retail/Svc.	730	450	1,148	432	412	796	585
Low-Rise Office	471	352	598	1,014	659	415	466
High-Rise Office	377	235					300
Hotel/Motel	1,179		5,273	1,747		808	1,804
R & D/Flex Space	1,717	511	1,121	1,833	277		527
Light Manufacturing	1,214	786	2,221	1,538	202	2,230	924
Heavy Manufacuring							
Warehouse	1,518	1,350	819	2,111	149	3,257	1,225
Government Offices	2,182	408	1,475	851	120	407	672

Table II-B
Derivation of Square Feet per Employee Based on:

⁻⁻AVERAGE FAR

Land Use Category	Los Angeles	Orange	Riverside	San <u>Bernardino</u>	Ventura	Imperial	Region
	Square Feet per Employee						
Regional Retail		704	268	1,009	1,165		857
Other Retail/Svc.	424	325	629	124	271	255	344
Low-Rise Office	319	287	481	697	389	632	288
High-Rise Office	440	218					311
Hotel/Motel			3,476	2,544		311	1,152
R & D/Flex Space	1,796	466	867	834	269		344
Light Manufacturing	829	558	1,548	705	189	994	439
Heavy Manufacuring							
Warehouse	1,518	979	581	1,195	131	450	814
Government Offices	1,442	206	208	188	94	322	261

Notes:

⁻⁻MEDIAN EMPLOYEES PER ACRE

⁻⁻AVERAGE EMPLOYEES PER ACRE

[&]quot;--" = Data not available.

EXHIBIT L-8

<u>General Plan</u>, As Amended December 15, 2015.

Appendix E: Socioeconomic Build-Out Projections Assumptions & Methodology, Table E-5

County of Riverside, 2015

Socioeconomic Build-out Assumptions and Methodology



Table E-3: Net Parcel Acre Factors

Land Use Designation	Net Parcel Area
Commercial Retail (CR)	0.75
Commercial Tourist (CT)	0.75
Commercial Office (CO)	0.75
Light Industrial (LI)	0.80
Heavy Industrial (HI)	0.75
Business Park (BP)	0.75

Net Parcel Square Feet: To convert net acres to net square feet, net acres are multiplied by 43,560 feet per acre. For example, 50 net acres of Commercial Office (66.66 gross acres) equals 2,178,000 net square feet.

Floor Area Ratio (FAR): Floor Area Ratio, or FAR, indicates the ratio of gross building square footage permitted on a parcel to net square footage of the parcel. FAR's for Commercial, Industrial and Business Park land uses are identified, in Table E-4, below. See General Plan Glossary for full definition of FAR.

Table E-4: Development FAR Factors

14010 = 11 501010 pintont 1741 1 401010					
		FAR			
Land Use Designation	Minimum	Probable*	Maximum		
Commercial Retail (CR)	0.20	0.23	0.35		
Commercial Tourist (CT)	0.20	0.25	0.35		
Commercial Office (CO)	0.25	0.35	1.00		
Light Industrial (LI)	0.25	0.38	0.60		
Heavy Industrial (HI)	0.15	0.40	0.50		
Business Park (BP)	0.25	0.30	0.60		

^{*}Factor used for theoretical planning estimates.

Building Square Footage: Building square footage for the land use designations listed in the table above are calculated by multiplying the Net Square Feet of each land use designation by the corresponding FAR. For instance, 20,000 square feet of Commercial Retail with an FAR of 0.23 would yield 4,600 square feet of building space.

Square Feet (SF)/Employee Factor: This factor indicates the number of employees typically associated with a given amount of square feet of building space per employee. It is used to estimate the number of jobs resulting for a given land use designation. These factors for the commercial land use designations are listed in Table E-5 below.

Table E-5: Commercial Employment Factors

Land Use Designation	SF/Employee
Commercial Retail (CR)*	500
Commercial Tourist (CT)	500
Commercial Office (CO)	300
Light Industrial (LI)	1,030
Heavy Industrial (HI)	1,500
Business Park (BP)	600

^{*}It is assumed that CR designated lands will build out at 40% CR and 60% MDR.

Employment: Employment for commercial, industrial, and business park land uses is calculated by dividing the total number of building square feet by the SF/Employee factor. For example, 300,000 square feet of commercial office building space would yield 1,000 employees.

Attachment

WRCOG Responses to Public Comments



Building Industry Association of Southern California, Inc.

June 10, 2024

Mr. Cameron Brown TUMF Program Manager Western Riverside Council of Governments 3390 University Ave., Suite 200 Riverside, Ca. 92501

Via Email: Cbrown@wrcog.us

RE: 2024 Draft Nexus Study Comments

Dear Mr. Brown:

On behalf of the Riverside County Chapter of the Building Industry Association of Southern California and our hundreds of home builders, trade partners, and suppliers throughout our region we are writing today to provide initial comments on the 2024 Transportation Uniform Mitigation Fee (TUMF) Nexus Study.

First, we want to thank Western Riverside Council of Governments (WRCOG) for its early outreach to our industry regarding the 2024 TUMF Nexus Study. The two workshops held in advance of the close of the initial comment period were beneficial to our members and we appreciate the education and outreach efforts.

The proposed single-family residential fee of \$15,025 per dwelling is a 48% increase from the current fee level and will increase new home prices already burdened by a difficult interest rate environment. While we understand the costs of roadway design and construction have increased, we would respectfully ask WRCOG to carefully examine the scope and pricing of its roadway network proposal, to seek savings that will reduce the new fee as much as possible.

We appreciate WRCOG's attention to the new fee requirements under AB 602. The AB 602 analysis included as a part of this study was informative. The findings related to home square footage and trip generation resemble what our builders find anecdotally in the regional home marketplace. We believe additional refinement of the proposed Fee Tiers in the AB 602 proposed fee would be important. Home buyers in the lower Fee Tier homes, tend to be first time buyers and are more sensitive to even modest price increases. Additionally, our members might be able to assist WRCOG as you look at regional trends in home size looking forward and we would be pleased to assist you in this regard.

Finally, implementation timing of the proposed TUMF increase is of critical importance to our members. As you know, the pipeline to project approvals is often 3 to 4 years out given the challenge CEQA poses in the entitlement process. Economic assumptions of any given housing proposal have been fixed long before homes are built, so fee increases late in the process can burden or even render some projects infeasible. A TUMF increase of this magnitude will have significant economic impacts to projects currently in the development process. We would respectfully ask that WRCOG consider a phase in

approach to the new fee that is moderate and gradual. Additionally, we would ask that no new increase to the TUMF fee occur any earlier than July 1, 2025 to allow ample time for builders to prepare for the increase and factor it into their economic models moving forward.

We appreciate the opportunity to provide initial comments on the 2024 TUMF Nexus Study. We look forward to further dialogue and collaboration as the process moves forward. Our industry stands ready to assist WRCOG with market data and insights that might be helpful as you consider the new fee and its implementation.

Sincerely,

Lou Monville

for Markle

Senior Vice President, Riverside County Chapter Building Industry Association of Southern California



Western Riverside Council of Governments

County of Riverside • City of Banning • City of Beaumont • City of Calimesa • City of Canyon Lake • City of Corona • City of Eastvale • City of Hemet City of Jurupa Valley • City of Lake Elsinore • City of Menifee • City of Moreno Valley • City of Murrieta • City of Norco • City of Perris • City of Riverside • City of San Jacinto • City of Temecula • City of Wildomar • Eastern Municipal Water District • Riverside County Superintendent of Schools

July 22, 2024

Lou Monville Southern California Building Industry Association (BIA) Senior Vice President, Riverside Chapter

Dear Mr. Monville,

Thank you for your thoughtful comments regarding the Transportation Uniform Mitigation Fee (TUMF) Nexus Study. We appreciate the Southern California BIA's involvement and your detailed feedback. We would like to address a few of the comments you made in your letter.

Comment: Fee Increase and Cost Savings

You expressed concern about the significant increase in fees and suggested looking for cost savings by eliminating other facilities.

Response: We have already taken steps to address this concern. Our team thoroughly analyzed the network and eliminated unneeded projects, ensuring that the TUMF only includes necessary and justified projects.

Comment: New Fee Requirements of AB 602

You thanked WRCOG for addressing the new fee requirements of AB 602 regarding home square footage and trip generation and suggested further refinement of the proposed Fee Tiers, particularly for lower Fee Tier homes that often attract first-time buyers.

Response: We would like to give a through response on AB-602 as this questions seems to arise often.

AB 602 has been in effect since January 1, 2022. This legislation imposes several requirements on mitigation programs and nexus studies. One of the most impactful changes was a requirement that fees for residential uses be assessed proportional to the size of the dwelling unit instead of a uniform fee. Like many fee programs, the TUMF program has historically assessed a consistent fee for all residential units with only a distinction between single-family homes and multi-family units.

Since 2022, WRCOG has evaluated the impacts of AB 602 and determined how best to comply with these requirements. This process has included a detailed analytical study regarding travel behavior in the WRCOG region, which determined that there was a relationship between the size of a single-family home and the number of trips generated by that home.

This data, combined with historical data regarding residential development patterns for the past three years, allowed WRCOG to develop a potential approach to comply with AB 602. This approach creates a series of 4 tiers which pivot off a standard single-family rate to account for homes which are both smaller and larger than the average new home in the WRCOG region.

One significant benefit to this approach is that it lessens the impact of any TUMF increase on first-time home buyers, who are often the most price-sensitive home buyers. These home buyers often purchase the least expensive homes, which are also the smaller homes.

It was also determined that the best approach to implement these tiers would be as follows:

- 1. Calculate the base single-family fee in the Nexus Study as is our traditional practice
- 2. Determine the appropriate tiers based on current data related to travel behavior and development trends. Homes smaller than the current average for new homes would pay less than the base single-family rate while homes larger than the current average would pay more than the base single-family rate
- 3. Implement these tiers through an update to the Fee Calculation Handbook, as is the case with any specialized fee calculation for TUMF applications
- 4. The fees would be paid for each single-family home based on the size of the dwelling unit, which is similar to how many of the non-residential TUMF fees are calculated. The fee payment portal maintained by WRCOG automatically calculates the fee based on the actual size of each single-family home. This approach ensures that there is no additional work required by our member agency staff or WRCOG staff.

This approach requires an update to the Fee Calculation Handbook, which is a routine activity that always follows any TUMF Nexus Study updates. This updated Fee Calculation Handbook will require review and approval by WRCOG's various staff and elected official committees prior to the implementation of any new fees.

Comment: Impact on Current Projects and Phased Implementation

You raised concerns that a significant TUMF increase could profoundly impact projects currently in development, given the extended timeline for project approvals due to CEQA challenges and prior economic projections for housing projects. You requested that WRCOG consider a phased and gradual approach to implementing the new fee, with no increase until at least July 1, 2025.

Response: The Executive Committee will determine the implementation approach for the fees, including the possibility of a phased introduction. The date of implementation will also be decided by our Executive Committee, but given the regulatory requirements for new fees, any changes will likely not take effect until February 2025 at the earliest, with a later implementation very likely.

Thank you again for your valuable input and for your continued collaboration. If you have any further questions or need additional information, please do not hesitate to reach out.

Sincerely,

Cameron Brown

Program Manager

From: A.I.M. <ianthe83@gmail.com>
Sent: Thursday, May 30, 2024 3:42 PM

To: Cameron Brown

Subject: TUMF Nexus Study Comments

Good afternoon,

I am a resident of Riverside County (Riverside City specifically) and in reviewing your PowerPoint Presentation of your study outcomes justifying the increase in building fees, I fail to see how retail, commercial, and warehouses should be paying the lowest fees. The majority of the presentation seems to focus on this. Warehouses, Commercial businesses, and developers cause significant impact to the roads and increase in traffic to the community and also make the most profit from the improvement of roads and transportation. They should incur fees that are significantly higher than home buyers. California is already an incredibly expensive place to live and we are losing our population as it ages or is priced out of the state. I realize these costs impact both the individual and businesses, but businesses are typically able to weather these cost of living increases if they are sustainable, non-exploitative businesses to begin with (this is often the case that they rather make exorbitant profits than care about the community they are impacting). The larger burden to make these important improvements should not be placed on the shoulders of individual community members who are barely surviving in these times. Do we need improved roads and transportation, yes. But we only need these improvements at the levels we need them due to an increase of traffic often spurred by business and big builders. The burden needs to land with them. Just my two cents as a concerned homeowner.

Thank you, Alesha Marshall



County of Riverside • City of Banning • City of Beaumont • City of Calimesa • City of Canyon Lake • City of Corona • City of Eastvale • City of Hemet City of Jurupa Valley • City of Lake Elsinore • City of Menifee • City of Moreno Valley • City of Murrieta • City of Norco • City of Perris • City of Riverside • City of San Jacinto • City of Temecula • City of Wildomar • Eastern Municipal Water District • Riverside County Superintendent of Schools

July 22, 2024

Dear Ms. Marshall

Thank you for sharing your concerns regarding the construction of warehouses in Jurupa Valley and the benefits provided to facilitate their development. We appreciate your engagement and the time you have taken to express your views.

You raised valid points about the potential negative impacts of warehouses, including congestion, air pollution, and general nuisance. These concerns are important and need to be addressed as part of our planning and community development processes.

Warehouse and all industrial development projects are required to pay their fair share based on the traffic they generate. By law, the Nexus Study cannot assign fees beyond what the development use generates in traffic congestion. It's important to note that the Nexus Study focuses on traffic-related impacts and does not mitigate other effects such as air pollution and public nuisance.

We understand the need for a balanced approach to development that considers all impacts, and we are committed to exploring additional measures to address the concerns you and other community members have raised.

Thank you again for your valuable input. If you have any further questions or need additional information, please feel free to reach out.

Sincerely,

Cameron Brown Program Manager

From: Savat Khamphou <Savat.Khamphou@CoronaCA.gov>

Sent: Wednesday, May 15, 2024 7:46 AM

To: Chris Gray

Cameron Brown; Karla Felix; Pedro Cevallos; Kenny Nguyen; Brett Channing

Subject: RE: Draft TUMF Nexus Study

Good morning, Chris.

Thank you for sending the Draft Nexus study. I did notice that the City of Corona's project cost for the McKinley Grade Separation at BNSF is estimated at \$105 million, yet no TUMF share is associated with it. Could it be that the study is assuming the project is complete? Since the project is not yet completed and funds are still needed, I'd like to continue discussions with WRCOG about whether TUMF funds are still an option for our project.

Thank you.



Savat Khamphou
Public Works Director
P: (951) 279-3604 C: (951) 264-8907
400 South Vicentia Avenue
Corona, CA 92882
www.coronaca.gov







City Hall hours are Monday-Thursday, 7 AM-6 PM. Closed Fridays

From: Chris Gray <cgray@wrcog.us>
Sent: Tuesday, May 14, 2024 10:56 PM
To: Chris Gray <cgray@wrcog.us>

Cc: Cameron Brown <cbrown@wrcog.us>; Karla Felix <kfelix@wrcog.us>

Subject: Draft TUMF Nexus Study

You don't often get email from cgray@wrcog.us. Learn why this is important

[CAUTION] DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

Good Evening Everyone,

The Draft TUMF Nexus Study has been posted to WRCOG's website and can be found here:

https://www.wrcog.us/201/Studies-Documents

Please let Cameron Brown know if you have any questions or comments on the study.

WRCOG will be hosting two public informational meetings on the Draft Nexus Study over the next 3 weeks. The first meeting is on May 21st and you can access the meeting link here:

Join Zoom Meeting

https://us02web.zoom.us/j/89591934134?pwd=dkJGdGo2d0d5OE1MUW53NkM1NIYzUT09



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July 22, 2024 Savat Khamphou Public Works Director City of Corona Corona, CA 92882 400 South Vicentia Avenue

Dear Mr. Khamphou,

Thank you for your comments regarding the Transportation Uniform Mitigation Fee (TUMF) Nexus Study. We appreciate the City of Corona's involvement and your attention to detail in reviewing the study.

The City of Corona noticed that the McKinley Grade Separation at BNSF is estimated at \$105 million, yet there is no TUMF share associated with it. The reason for this is that McKinley received funds from outside sources such as SB132, which provide more funding than the TUMF estimate for the project. Therefore, TUMF can provide no further funding as part of this Nexus Study. However, WRCOG has recently worked closely with the City to provide funding based on the previous study. The latest TIP reflects the additional funding that could be provided.

Thank you again for your valuable input and for the continued collaboration. If you have any further questions or need additional information, please do not hesitate to reach out.

Sincerely,

Cameron Brown Program Manager

From: Stuart McKibbin <stuart@trilakeconsultants.com>

Sent: Monday, June 10, 2024 11:19 PM

To: Cameron Brown

Cc: Randel, Travis; 'rjohnson@sanjacintoca.gov'

Subject: RE: Deadline for TUMF Nexus Study Comments: June 10th - City of San Jacinto

comments

Good evening Cameron,

For the City of San Jacinto, we have no comments to make on the WRCOG's proposed specific project costs or TUMF shares.

However, the City would request that WRCOG revisit our proposed additions to the TUMF Arterial Network: Seventh Street between its western terminus and Warren Road, and the Seventh Street Bridge over MWD's San Diego Canal. The two facilities are listed in Exhibit G-1 in Appendix G.

Exhibit G-1 states there is no v/c deficiency, but we believe the analysis does not take into account the increased pressure on the City's arterial system caused by the upcoming construction of the Mid-County Parkway widening to Warren Road. Moreover, by implementing a segment of Seventh Street that is currently non-existent, we believe the analysis should consider the additional benefits to the network's regional connectivity and continuity. As of now, residents would travel west to a dead end, but closing the gap on Seventh street would relieve pressure on the other arterials in the City, particularly Sanderson Ave and Ramona Expressway.

Thank you for your consideration. See you Thursday.

Stuart E. McKibbin, PEContract City Engineer City of San Jacinto



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1221 S. San Jacinto Ave. | San Jacinto, CA 92583 office: 951.654.3592 | DIR: 909.645.0678

website | linkedin | email

From: Cameron Brown <cbrown@wrcog.us>

Sent: Monday, June 3, 2024 4:35 PM

To: Alvin Medina <a LMEDINA@RIVCO.ORG>; Amer Attar <a mer.attar@temeculaca.gov>; Art Vela <a vela@banningca.gov>; Bob Moehling <a version ling@murrietaca.gov>; Cameron Luna <c luna@cityofwildomar.org>; Chad Blais <c ling@ci.norco.ca.us>; Chris Gray <c gray@wrcog.us>; Dan Fairbanks <a version ling@murrietaca.gov; Dennis Acuna <a vers



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July 22, 2024

Stuart McKibbin Contract City Engineer City of San Jacinto 1221 S. San Jacinto Ave. San Jacinto, CA 92583

Dear Mr. McKibbin,

Subject: Response to Comments on TUMF Nexus Study

I trust this letter finds you well. Thank you for your recent feedback regarding the TUMF Nexus Study. We have carefully considered the City of San Jacinto's request to revisit the proposed TUMF Arterial Network project for Seventh Street between Warren Road and the Seventh Street Bridge over MWD's San Diego Canal.

At this time, we are not considering the evaluation of new projects as part of the current study. However, I want to assure you that your request has been noted, and we will reevaluate this project at the next update of the study at the City of San Jacinto's request.

Should you have any further questions or require additional information regarding this matter, please do not hesitate to contact me directly at cbrown@wrcog.us or 951-405-6712

Thank you for your ongoing collaboration and input into the TUMF Nexus Study. We value our partnership with the City of San Jacinto and look forward to addressing your concerns in future updates.

Sincerely,

Cameron Brown Program Manager

From: Mustafa, Nathan < NMustafa@riversideca.gov>

Sent: Monday, June 10, 2024 7:35 PM

To: Cameron Brown

Cc:Hernandez, Gilbert; Scully, ChrisSubject:TUMF Nexus Study Comments

Cameron,

Please find below our comments on the draft TUMF Nexus Study, we are happy to discuss in additional detail at your convenience:

- 1. "Government/Public Sector" appears to be a new category and is \$22.40/SF, this appears to be excessive. It further appears that the study adds this category and removes "Class A/B Office" which used to be \$2.45/SF. Government/Public Sector appears to include schools, whereas schools used to be exempt, has WRCOG confirmed that the TUMF can be applied to all of the proposed public sector facilities? If schools are no longer exempt and they need to pay \$22.40/SF, which would pose a significant challenge for our educational facilities amongst other public buildings.
- The state of California continues to contend with a housing crisis. A key barrier to housing is the
 cost of developing housing in our state. The below report documents increasing local exactions as
 a key contributor to the trend of higher costs to develop housing in
 CA: https://ternercenter.berkeley.edu/wp-content/uploads/pdfs/Hard_Construction_Costs_March_2020.pdf
- 2. Single Family Residential (SFR) is increasing almost 50% from \$10,104 to \$15,025 and Multi-Family is only increasing by 15% from \$6,580 to \$7,588. This does not appear to be proportional; the traffic impact would be more similar unless there is compelling evidence to demonstrate that Multi-Family would have lesser impacts from a VMT perspective. Is some of the discrepancy the result of the potential for SFRs to include Accessory Dwelling Units (ADUs)? If so, would a separate category for ADUs be an acceptable alternative?
 - 2A. Could the fee instead be based off of actual building square footages for single family residential? This may help alleviate the impact on more affordable single family housing and help the City to meet RHNA objectives. This would align with the VMT-based approach used within the nexus study.
- 2B. Riverside Public Works staff suggest that proposed increases are exacted in greater proportion on industrial developments. While it is understood that the nexus study assigned proportional fees based on VMT, heavy vehicles associated with goods movement damage our local roadways and cause more congestion on a per-vehicle basis. The VMT for these developments should be appropriately weighted to account for the impacts attempting to be addressed using the VMT-based approach. Furthermore, it is unclear whether percentage of residential VMT occuring on the regional TUMF roadway network, was a key factor when assessing proportional impacts as many residential trips occur to and from schools, retail, etc. within a municipality. To expand on this notion, the specific location of a

development is a more significant determinant of its vehicle miles traveled as opposed to the anticipated trip generation. Why is all housing of a specific type treated equally?

2C. If retail and commercial developments were adjusted to account for ITE pass-by rates, were residential developments adjusted to account for internal capture within areas zoned as mixed use? (Page 11). Furthermore, if VMT is the basis of assigning TUMF fees, do developments found to fully mitigate their regional VMT impacts through a CEQA study or those who screen out using a VMT screening tool find themselves exempted from TUMF? Unlike Level of Service, when VMT is addressed at a local level it is simultaneously addressed at a regional level.

The nexus study references that the TUMF can be used to offset a development's VMT impact, is the opposite true? Housing, when located strategically, has the potential to reduce regional Vehicle Miles Traveled.

- 3. Section 1.3.1 subsection 6 references the RivTAM model, which precedes the updated RivCOM model. Was this intentional for the specific analysis needed, or an error?
- 4. The nexus study references that a primary tool in developing fee assignment is VMT per unit; however, it is unclear that the proposed improvements will reduce VMT. Rather, the approach appears to link VMT to Level of Service. Was the potential for TUMF network improvements to induce VMT accounted for? It merits restating that local serving facilities or strategically located housing have the potential to reduce regional-level vehicle miles traveled.

Sincerely,

Nathan Mustafa, PE, TE, AICP, MBA

Deputy Public Works Director / City Engineer City of Riverside Public Works Department, Administration

Main: 951.826.5670 Direct: 951.826.2251 RiversideCA.gov

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July 22, 2024

Nate Mustafa Deputy Public Works Director/City Engineer City of Riverside Public Works Department, Administration

Dear Mr. Mustafa,

Thank you for your comments regarding the Transportation Uniform Mitigation Fee (TUMF) Nexus Study. We appreciate the City of Riverside's involvement and your detailed review of the study.

Regarding the proposed new category of "Government/Public Sector" and the concern about excessive fees, please note that this is not a new category in the study. The fees are shown to demonstrate that the trips caused by these uses still need to be mitigated from other sources. These uses remain exempt from paying TUMF fees.

We have noted the report attached to your comments about the current key barriers the state is facing in trying to develop housing. Thank you for sharing this valuable information.

Regarding the increase in Single Family Residential (SFR) fees compared to Multi-Family Residential (MFR) fees, SFR pays higher trip rates per unit than MFR. Each category pays its fair share of the impact being created from its specific use based on its trip generation rate and its proportional growth in the region. Accessory Dwelling Units (ADUs) are exempt under the TUMF program at the discretion of the Executive Committee. This exemption can be reevaluated by the committee at a later date.

Having the fee based on actual building square footage for SFRs could help with more affordable housing and be reflective of the analysis used in the Nexus Study. AB-602 requires a square foot calculation on SFR, which will be implemented in the next update of the Fee Calculation Handbook.

Regarding the locations of the project as a determinant for trip generation, the Nexus Study calculates fees based on a combination of trip generation rates and VMT. VMT is accounted for in the RIVCOM model as it takes into account trip length, which is a factor in identifying mitigation needs. VMT is also used to determine the split in proportional impact between residential and non-residential uses.

We do make an adjustment for Transit-Oriented Development (TOD) but not specifically for mixed-use areas. TUMF does not mitigate VMT impact and cannot be used as a mitigation for those impacts.

Thank you for pointing out the reference to the RivTAM model in Section 1.3.1 subsection 6. We have made the correction to reflect that RIVCOM, not RivTAM, was used in the transportation modeling for the study.

TUMF vs SB-743

Considering your questions regarding VMT, we would like to provide a thorough response to this as these questions frequently arise on VMT vs LOS mitigation.

SB 743 was signed into law in 2014 and went into effect on July 1, 2020. SB 743 requires that the CEQA documents analyze transportation impacts of a project using vehicle miles traveled (VMT) instead of level of service (LOS) or other delay-based metrics.

SB 743 had a significant impact by changing the way in which traffic studies were done for CEQA documents. Agencies had to determine appropriate analysis tools, impact thresholds, and potential mitigation measures as an VMT-centric approach is very different from an LOS-based approach.

Recognizing the potential impacts of SB 743, WRCOG completed the first regional study regarding SB 743 implementation which developed sample guidelines, thresholds, and analytical tools to assist WRCOG member agencies with the transition to VMT as a CEQA analysis metric. This study was completed in 2018.

In 2019, WRCOG commenced an effort to develop an approach to mitigation potential VMT mitigation impacts through a program separate from TUMF. At that time, a policy decision was made to maintain the focus of TUMF to mitigate congestion, which means that TUMF primarily funds expansions of roadways, interchanges, grade separations and other facilities. While TUMF does provide some funding to Riverside Transit Agency (RTA), over 90% of TUMF funds are allocated to roadway infrastructure projects.

The purpose of a VMT mitigation program is to identify programs and projects that reduce VMT which could include bicycle/pedestrian infrastructure, subsidized transit passes, contributions to affordable housing, and other similar efforts.

This policy decision reflects a clear demarcation between TUMF and any efforts to mitigate VMT. The following should be noted:

- SB 743 does not change any of the requirements of AB 1600 and therefore has no effect on the preparation of Nexus Studies such as the TUMF Nexus Study
- Payment of TUMF fees do not provide any VMT mitigation benefits since those are separate programs for development projects

- The TUMF Program does not provide any CEQA mitigation for any development or transportation project impacts
- Any transportation infrastructure project contained in the TUMF Nexus Study will be required to assess and mitigate all environmental impacts per the requirements of CEQA including any potential impacts related to VMT

It should be noted that the National Center for Sustainable Transportation (NCST)/Institute of Transportation Studies (ITS) at University of California, Davis released a white paper entitled From LOS to VMT: Repurposing Impact Fee Programs Since Adoption of SB 743 (November 2023). This document argues the SB 743 provides an opportunity for agencies for agencies to redirect their transportation impact fee programs towards more multi-modal improvements.

However, this white paper does not say that agencies are required to change their approach to impact fees and specifically states the following on Page ii:

Furthermore, even if they cannot do so for CEQA mitigation, cities can also still impose impact fees to improve/maintain LOS under provisions of the state's Mitigation Fee Act (MFA), so long as the fee program complies with requirements for demonstrating a "rational nexus" between the fee's purpose, the need for the fee, the cost of facilities for addressing the need, and the allocation of the fee to new development based on its contribution to the demonstrated need.

Therefore, this document acknowledges that WRCOG has the discretion to continue to develop and implement a fee program which funds roadway infrastructure projects as long as such a program complies with the requirements of AB 1600.

Thank you again for your valuable input and for the continued collaboration. If you have any further questions or need additional information, please do not hesitate to reach out.

Sincerely,

Cameron Brown Program Manager



Tel: 951.413.3100 www.moval.org 14177 Frederick Street P.O. Box 88005 Moreno Valley, CA 92552-0805

June 4, 2024

Mr. Cameron Brown, Program Manager Western Riverside Council of Governments 3390 University Ave., Suite 200 Riverside, CA 92501-3314

SUBJECT: Comments Concerning the Transportation Uniform Mitigation Fee Nexus

Study, 2024 Update

Dear Mr. Brown,

The City of Moreno Valley (City) greatly appreciates the opportunity to review and provide comments concerning the Transportation Uniform Mitigation Fee (TUMF) Nexus Study, 2024 Update. The City acknowledges the ongoing collaboration and partnership necessary to develop the TUMF Program. As such, the City would like to take this opportunity to share our concerns about the recent 2024 Nexus Study update.

The draft update identifies State Route 60 (SR 60) interchanges within the City of Moreno Valley and the City's arterial roadways as adequate for the 2045 build-out. This designation eliminates funding, which is a significant shift from the 2016 Nexus Study, in which WRCOG partnered with the City as a key stakeholder to develop a comprehensive approach between our Development Impact Fee (DIF) and the regional TUMF.

The City of Moreno Valley is the second largest city in Riverside County. Nearly forty percent of the City consists of undeveloped territory, which is currently experiencing explosive growth, particularly in logistic facilities. This growth is set to establish the City as one of the largest logistic hubs in the State of California, providing freight transport to the entire Southern California region. This expected growth will drastically increase the freight transport and safety needs of the area. In addition, regional traffic emanating from growth in neighboring communities relies heavily on these critical connections.

The City respectfully requests that the 2024 Update be revised to include the following:

- Redlands Boulevard / SR 60 Interchange
- Theodore Street/WLC Parkway / SR 60 Interchange
- Theodore Street / World Logistic Center (WLC) Parkway from Ironwood Avenue to Cactus Avenue
- Cactus Avenue from World Logistics Center (WLC) Parkway/Alessandro Boulevard to Heacock Street
- Eucalyptus Avenue from WLC Parkway to Gilman Springs
- Moreno Beach Drive from Eucalyptus Avenue to Iris Avenue/ John F. Kennedy (JFK) Drive

The City strongly believes that the inclusion of these facilities will enhance the region's overall network connectivity, accomplishing the intent of the TUMF program.

Please feel free to contact me by phone at 951.413.3100 or by email at melissaw@moval.org to coordinate a time to discuss further.

Sincerely,

Melissa Walker, P.E.

Public Works Director/City Engineer



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July 29, 2024

Melissa Walker Public Works Director/City Engineer City of Moreno Valley 14177 Frederick St. Moreno Valley, CA 92553

Dear Ms. Walker,

Thank you for your valuable comments on the Transportation Uniform Mitigation Fee (TUMF) Nexus Study and for acknowledging the collaboration and partnership needed to develop the TUMF Program. We appreciate the City of Moreno Valley's involvement and your continued support.

Comment: 2045 Build-Out and Funding

You mentioned that the 2024 Nexus Update identifies SR-60 Interchange and other arterial roadways as adequate for the 2045 build-out, eliminating significant funding.

Response: The TUMF Nexus Study has a 2040 future year and does not extend to local general plan buildout projections. This approach helps us align better with regional transportation planning.

Comment: Growth in Warehousing and Funding Needs

You highlighted the explosive growth in warehousing in Moreno Valley and the need for the Nexus Study to reflect the city's funding needs and the increased freight transportation and regional traffic it will create.

Response: A possible reevaluation of this concern will be considered in the next Nexus Study update. Currently, the forecast does not call for such mitigation in the World Logistics Center (WLC) plan area.

Comment: Requested Updates to Specific Road Segments

You requested that the update reflects changes to the following segments: Redlands Blvd/SR-60 Interchange, Theodore St/WLC Parkway/SR-60 Interchange, Theodore/WLC (Ironwood Ave. to Cactus Ave), Cactus Ave (WLC/Alessandro Blvd to Heacock St), Eucalyptus Ave (WLC Parkway to Gilman Springs), and Moreno Beach Drive (Eucalyptus Ave to Iris Ave/JFK Drive).

Response: We are adding the Theodore and Redlands Blvd Interchanges back into the study as they already have agreements in place. This will add an additional \$64,000,000 in potential funding for these projects. However, there is no justifiable reason for adding the other segments based on current needs, as there is no mitigation required based on the analysis.

Thank you again for your detailed feedback and for the continued collaboration. If you have any further questions or need additional information, please do not hesitate to reach out.

Sincerely,

Program Manager

From: Yurhi Choi <ychoi@eastvaleca.gov>
Sent: Wednesday, May 29, 2024 9:57 AM

To: Cameron Brown

Cc: Sandra Fernandez; Jimmy Chung

Subject: FW: Draft TUMF Nexus Study- Public Review Period

Hi Cameron,

The City had a chance to review the draft report and had some comments and questions on Exhibit H-1. Please see below:

- a. Schleisman from Scholar to Hamner (page 209 of 286): these segments of Schleisman are fully built out. There is no capacity for constructing additional lane(s). Therefore, New Lane cost and ROW cost are not applicable. Can we still get ITS cost allocated to these segments?
- b. Archibald from Remington (SB County) to 65th St (page 212 of 286): these segments of Archibald can accommodate additional northbound lane.
- c. Hamner from Mission to Bellegrave: the city limit is located at the center line of the street. West half is in City of Ontario, and the east half is in City of Eastvale. These segments of Hamner in Eastvale side are fully built out. There is no capacity for constructing additional lane(s).
- d. Hellman from Schleisman to Walters: the city limit is located at the center line of the street. West half is in City of Chino, and the east half is in City of Eastvale. There is one northbound lane, and future will accommodate two. Should the calculation be updated so it accounts for the improvements in the Eastvale side only?
- e. Hellman bridge: see comments in d above.
- f. Limonite from Harrison to Archibald: there are currently five lanes, and it can accommodate additional eastbound lane. Update the table to account for additional lane.
- g. River from Hellman and Archibald (page 212 of 286): the segment to shall be updated to Hall Ave. River from Hall to Archibald already has four lanes.

There is a project that is eligible for TUMF credit. I worked on the credit amount with Chris Gray, and my colleague took over the coordination. I am not sure if the agreement is already in place, but if it is not, will the figures need to be updated per the new study? The max TUMF share seems low (i.e. Hamner from Amberhill to Limonite) when compared to 2016 Nexus Study.

Let me know if you have any questions.

Thanks!

Yurhi

From: Jimmy Chung <jchung@eastvaleca.gov>
Sent: Wednesday, May 15, 2024 10:58 AM
To: Yurhi Choi <ychoi@eastvaleca.gov>

Subject: FW: Draft TUMF Nexus Study- Public Review Period

Fyi.

From: Mark Orme < morme@eastvaleca.gov > Sent: Wednesday, May 15, 2024 5:02 AM

To: Amanda Wells < <u>Awells@eastvaleca.gov</u>>; Gustavo Gonzalez < <u>ggonzalez@eastvaleca.gov</u>>; Jimmy Chung < <u>jchung@eastvaleca.gov</u>>



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July 22, 2024

Yurhi Choi Senior Engineer City of Eastvale 12363 Limonite Avenue, Suite 910 Eastvale, CA 91752

Subject: City of Eastvale – Nexus Study Comments

Dear Ms. Choi:

Thank you for adding your comment on the TUMF Nexus Study during our public comment review period. We appreciate the feedback received. We would like to provide feedback regarding your comments that we received.

- 1) Schleisman from Scholar to Hamner are fully built out. Can ITS costs be allocated to those segments?
 - a. Schleisman along this segment is nearly 95% built out. There is only a small amount of funds remaining on the estimated cost. However, these funds can be used towards ITS, restriping to allow the max lanes, and other TUMF eligible expenses.
- 2) Hamner from Mission to Bellegrave is divided with San Bernardino County. There is no longer any capacity.
 - a. The Nexus Study already considers the piece outside of the City and County via a "Percent Complete" factor built into the Nexus Study project table. We also realize that the segment is built out on the Eastvale side and will revise the study to show that it is 100% complete.
- 3) Hellman from Schleisman to Walters is divided with San Bernardino County. One additional NB lane with plans to make it into two.
 - a. Same as answer for #2. Calculations already account for the work needed on the Eastvale side.
- 4) Limonite from Harris to Archibald can accommodate an additional EB lane. Will the Nexus Study account for the lane.
 - a. The Nexus Study analysis shows that no mitigation is needed beyond 4 lanes. The program can't justify adding funding for an additional lane.
- 5) River from Hellman to Archibald already has 4 lanes
 - a. This completion is accounted for in the Nexus Study as being 48% complete
- 6) Please review the amount allocated to Hamner from Amberhill to Limonite as it seems like it is a decrease from 2016.
 - a. The decrease is due to the percent completion in the Nexus Study update to what it was in the 2017 Nexus Study. 2017 had this at 14% complete while the new update has it at 55% complete.

If you have any questions regarding this response, please contact me at (951) 405-6712 or by e-mail at cbrown@wrcog.us.

Regards,

Cameron Brown Program Manager

To: John Pourkazemi

Subject: Deadline for TUMF Nexus Study Comments: June 10th

From: John Pourkazemi < jpourkazemi@cityofperris.org>

Sent: Monday, June 10, 2024 10:56 AM

To: Cameron Brown <cbrown@wrcog.us>; Chris Gray <cgray@wrcog.us>

Cc: Clara Miramontes < CMiramontes @cityofperris.org>; Brad Brophy < bbrophy@CityofPerris.org>; Grace V. Alvarez

<galvarez@cityofperris.org>; Habib Motlagh <habibtrilake@gmail.com>
Subject: FW: Deadline for TUMF Nexus Study Comments: June 10th

Hello Chris and Cameron,

Estating Destants

In review of the draft 2024 Nexus as shown in the table below listing the TUMF share associated with the projects, we would like to verify that the requested amounts of TUMF share as allocated in the Central Zone TIP for the three Ethanac projects are confirmed and maintained per current max TUMF share, as previously discussed.

Existing Projects				
Street	From	То	Current Max TUMF Share	2024 DRAFT Nexus TUMF Max Share
11th/Case	Perris	Goetz	\$ 2,625,000.00	\$ 4,582,000.00
Case	Goetz	I-215	\$ 16,936,000.00	\$ 20,876,000.00
Case	(Bridge over SJ River)		\$ 534,000.00	\$ 1,740,000.00
Ethanac	SR-74	Keystone	\$ 6,414,000.00	\$ 4,666,000.00
Ethanac	Keystone	Goetz	\$ 8,324,000.00	\$ 6,056,000.00
Ethanac	(Bridge over SJ River)		\$ 7,958,000.00	\$ 5,568,000.00
Ethanac	I-215	Sherman	\$ 2,433,000.00	\$ 5,316,000.00
Goetz	(Bridge over SJ River)		\$ 2,077,000.00	\$ 3,398,000.00
Evans	Nuevo	Ellis	\$ 10,521,000.00	\$ 17,705,000.00
Evans	(Bridge over SJ River)		\$ 7,378,000.00	\$ 11,136,000.00
Ethanac/I-215 Interchange			\$ 15,766,000.00	\$ 32,698,000.00
SR-74/Case Rd/I-215 Interchange			\$ 8,815,000.00	\$ 21,835,000.00
New Projects				
Street	From	То	Current Max TUMF Share	2024 DRAFT Nexus TUMF Max Share
Ellis	Goetz	Evans	\$ -	\$ 9,526,000.00
Evans	(Bridge over I-215)		\$ -	\$ 8,352,000.00
Fees				
Land Use Type	Units	Fee Per Unit Current Nexus	Fee Per Unit 2024 DRAFT Nexus	
Single Family Residential	DU	\$ 9,418	\$ 15,025	
Multi Family Residential	DU	\$ 6,134	\$ 7,588	
Industrial	SF GFA	\$ 1.77	\$ 2.26	
Retail	SF GFA	\$ 12.31	\$ 10.88	
Service	SF GFA	\$ 4.56	\$ 9.47	
Government/Public	SF GFA	\$ 16.08	\$ 22.40	



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July 22, 2024

John Pourkazemi City Engineer City of Perris 101 N D St. Perris, CA 92570

Dear Mr. Pourkazemi,

Subject: Response to Comments on TUMF Nexus Study

I hope this letter finds you well. Thank you for your comments regarding the TUMF Nexus Study. We appreciate the City of Perris's diligence in verifying the TUMF share of certain projects in the Central Zone TIP, specifically for the three Ethanac projects.

To address your concern, please note that these projects are "grandfathered" into the program based on the 2017 Nexus Study. The city already has allocations on the TIP and reimbursement agreements for these projects. Rest assured, this funding will not be removed, and the maximum share will remain unchanged.

Should you have any further questions or require additional information, please do not hesitate to contact me directly at [Your Phone Number] or [Your Email Address].

Thank you once again for your attention to the TUMF Nexus Study. We value our ongoing partnership with the City of Perris and look forward to continuing our collaboration.

Sincerely,

Cameron Brown Program Manager

To: Chris Gray

Subject: RE: Draft TUMF Nexus Report

From: Jason Simpson < jsimpson@Lake-Elsinore.org>

Sent: Thursday, April 25, 2024 9:19 AM **To:** Chris Gray <<u>cgray@wrcog.us</u>> **Subject:** Draft TUMF Nexus Report

Hi Chris,

I hope this email finds you well. I am reaching out regarding the draft Nexus Study. Upon review, the City has some questions regarding segments listed in Table 4.4. I would appreciate clarity on the following:

- Franklin Interchange listed as \$0
- Nichols Road Bridge listed as \$0
- Lake Street Bridge listed as \$1.15M Note: Lake Street would require widening to 6 lanes; the current bridge accommodates only 2 lanes
- Temescal Canyon from I-15 to Lake Street: Does this encompass Temescal Canyon in both City and County jurisdictions?
- In general: Are other segments with figures greater than \$0 updated to reflect their new Maximum TUMF share?

Could we schedule a meeting to discuss these segments at your earliest convenience? Addressing these points beforehand will be beneficial before meeting with any Council Members. Thank you for your time.

Best regards,

Jason Simpson City Manager PH:951-674-3124 x204





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July 29, 2024

Jason Simpson City Manager City of Lake Elsinore 130 S Main St. Lake Elsinore, CA 92530

Dear Mr. Simpson,

Subject: Response to Comments on TUMF Nexus Study

I hope this letter finds you well. Thank you for your recent correspondence regarding the TUMF Nexus Study. We appreciate the City of Lake Elsinore's diligence in verifying the allocation of funds to specific projects listed in Table 4.4.

In response to your inquiry, we have carefully reviewed and adjusted the study to include allocations for the Franklin Interchange, Nichols Rd Bridge, and Lake St Bridge projects. These projects add an additional \$37,000,000 in potential funding to the city. Detailed information regarding the allocated amounts for each project can be found in Exhibit H-1 of the study document.

Should you require any further assistance or clarification regarding the adjustments made, please feel free to contact me directly at cbrown@wrcog.us.

Thank you once again for your interest and valuable feedback on the TUMF Nexus Study. We look forward to continuing our collaboration with the City of Lake Elsinore.

Sincerely,

Cameron Brown Program Manager Cc: Chris Gray < cgray@wrcog.us>

Subject: RE: TUMF: Winchester Road north of Keller Road

Hello Cameron,

I noticed a draft of the Nexus Study is available online. Do you know if the error has been addressed? I didn't see a line item for SR-79 (Winchester) north of Keller Road.

Thanks

From: Cameron Brown < cbrown@wrcog.us Sent: Monday, April 1, 2024 12:48 PM
To: Tsang, Kevin < KTSANG@RIVCO.ORG

Cc: Chris Gray < cgray@wrcog.us>

Subject: RE: TUMF: Winchester Road north of Keller Road

CAUTION: This email originated externally from the <u>Riverside County</u> email system. **DO NOT** click links or open attachments unless you recognize the sender and know the content is safe.

Hi Kevin,

I looked over this and discussed with our consultant on the Nexus Study. This was indeed an error in the 2017 study and it is being revised in the updated study to a 4 lane facility with a future mitigation at 6 lanes. There is a portion of the segment that is already widened to 5 lanes and the Nexus Study will take that into consideration in determining the TUMF share.

Cameron Brown Program Manager Western Riverside Council of Governments 3390 University Ave., Suite 200 Riverside, CA 92501-3314 Phone: (951) 405-6712

Mobile: (951) 836-2525 www.wrcog.us

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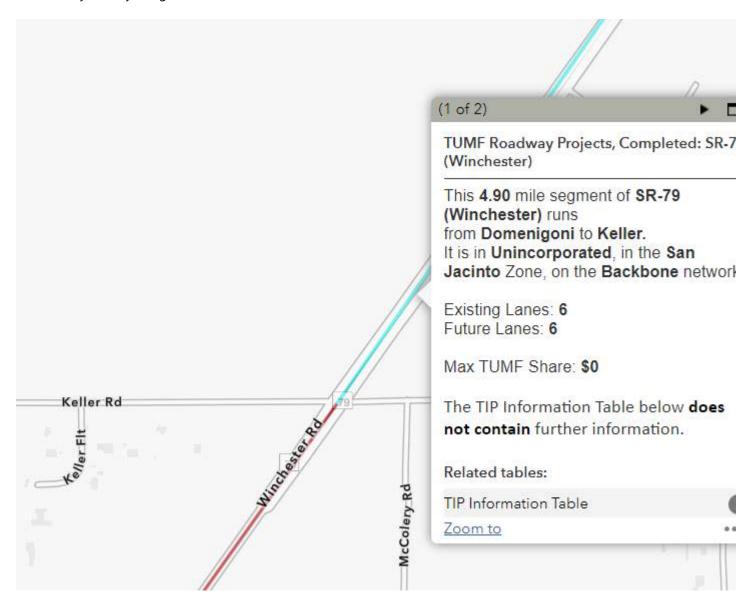
From: Tsang, Kevin < KTSANG@RIVCO.ORG Sent: Thursday, March 28, 2024 3:35 PM
To: Chris Tzeng < ctzeng@wrcog.us

Cc: Williams, Russell < RUWILLIA@RIVCO.ORG >

Subject: TUMF: Winchester Road north of Keller Road

Hello Chris,

We had a developer ask for clarification on the segment of Winchester Road north of Keller Road. In TUMF, the GIS indicates it is constructed with 6-lanes, but in reality, it is only 4-lanes. Is there a need to correct this in the TUMF and would this yield any budget for TUMF to cover two additional lanes?



Thanks,

Kevin Tsang, P.E.

Riverside County, TLMA Transportation Department 4080 Lemon Street, 8th Floor Riverside, CA 92501 *Tel*: (951) 955-6828



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July 22, 2024

Kevin Tsang Riverside County, TLMA Transportation Department 4080 Lemon Street, 8th Floor Riverside, CA 92501

Dear Mr. Tsang,

Thank you for your comments regarding the Transportation Uniform Mitigation Fee (TUMF) Nexus Study. We appreciate the County of Riverside's involvement and your attention to detail in reviewing the study.

We are currently making corrections to the Nexus Study Draft to list the correct number of lanes on Winchester. The segment will be updated to reflect it as a 4-lane segment with plans to expand to 6 lanes in the future. This adjustment will make it eligible for additional funding.

Thank you again for your valuable input and for the continued collaboration. If you have any further questions or need additional information, please do not hesitate to reach out.

Sincerely,

Cameron Brown Program Manager

From: Dooley Family <ourk9nina@charter.net>

Sent: Friday, June 7, 2024 6:16 PM

To: Cameron Brown

Subject: 2024 TUMF Program Nexus Study

Dear Ms. Brown,

I have been a resident of Jurupa Valley since August of 1992, and as a family we've been utterly fed-up with the amount of warehouses that have been erected, and continue to be erected with little benefit to the community. They are the most harmful business entity in terms of congestion (especially for those of us that have to commute), air quality, job creation, being a nuisance and harmful to the overall health of the area. I am appalled when looking at the proposed increases that they will continue to over-populate and be unwelcome neighbors to the residents with impunity due to the galling lowest fees that they are afforded, yet they are the biggest burden to any community in the Inland Empire. I can't help but wonder how influential their lobby must be on the members to gain such favorable rates. Very infuriating and unacceptable! They need to do better!

Thank you for your time.

Sincerely, Delilah Dooley



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July 22, 2024

Cameron Brown
Program Manager
Western Riverside Council of Governments (WRCOG)
3390 University Ave, Suite 200
Riverside, CA 94501
cbrown@wrcog.us

Dear Ms. Dooley,

Thank you for sharing your concerns regarding the construction of warehouses in Jurupa Valley and the benefits provided to facilitate their development. We appreciate your engagement and the time you have taken to express your views.

You raised valid points about the potential negative impacts of warehouses, including congestion, air pollution, and general nuisance. These concerns are important and need to be addressed as part of the planning and community development processes at the local jurisdiction level.

Warehouses and all industrial development projects are required to pay their fair share based on the traffic they generate. By law, the TUMF Nexus Study cannot assign fees beyond what the development use generates in traffic congestion. It's important to note that the Nexus Study only addresses traffic-related impacts and does not mitigate other effects such as air pollution and public nuisance.

We understand the need for a balanced approach to development that considers all impacts, and we are committed to exploring additional measures to address the concerns you and other community members have raised.

Thank you again for your valuable input.

Sincerely,

Cameron Brown Program Manager





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Federal Tax ID 33-0461804



June 10, 2024

Sothern California Association of Governments Attention: Cameron Brown

Dear Cameron.

I am writing to advocate for the reduction of TUMF fees, specifically aimed at facilitating the construction of affordable housing within Western Riverside County. As we strive to address the pressing issue of housing affordability, it is imperative that we adopt measures that incentivize and enable the creation of housing options accessible to individuals and families across all income levels.

Impact fees, while intended to support the growth and improvement of our community's infrastructure, often serve as significant barriers to the development of affordable housing projects, such as those we build through Habitat for Humanity. These fees, which are levied on developers to mitigate the impact of new construction on public services and facilities, can substantially increase the overall cost of building affordable housing units. For every additional dollar that is added to the cost of developing affordable units, we need to find another dollar through donors, fundraising, grants, or loans. Consequently, this added financial burden can deter developers from pursuing such projects, exacerbating the shortage of affordable housing in our area.

By reducing or waiving TUMF fees for affordable housing developments, we can stimulate the creation of much-needed housing options for low- and moderate-income residents. Not only will this help alleviate the strain on our housing market, but it will also contribute to the overall health and diversity of our community.

Affordable housing is not just a social issue but also an economic one. Access to stable and affordable housing is a fundamental determinant of individual and family well-being, impacting everything from health outcomes to educational attainment and economic mobility. By prioritizing the reduction of development impact fees for affordable housing, we are investing in the long-term prosperity and vitality of our community. By working together to reduce the financial barriers to affordable housing development, we can take meaningful steps towards creating a more inclusive and equitable community for all residents.

Tammy Marine,

Best regards.

President/CEO



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July 22, 2024

Tammy Marine Chief Executive Officer Habitat for Humanity 41615 Winchester Road #214 Temecula, CA 92590

Dear Ms. Marine,

Subject: Response to Comments on TUMF Nexus Study

I hope this letter finds you well. Thank you for your thoughtful comments on the TUMF Nexus Study. We appreciate your dedication to affordable housing and the important work that Habitat for Humanity does in our community.

We understand your concerns that impact fees can serve as a significant barrier to the development of affordable housing projects, substantially increasing the overall cost of building these units. Your suggestion to waive the TUMF fee for affordable housing developments to stimulate the creation of housing options for low- and moderate-income residents is noted.

Affordable housing is indeed a critical social and economic issue in the region. To support this, low-income housing is exempt from the payment of TUMF fees. This exemption is designed to reduce the financial burden on affordable housing developments and to encourage the creation of housing options for those in need, thereby investing in the long-term growth and stability of our community.

Should you have any further questions or require additional information, please feel free to contact me directly at cbrown@wrcog.us or 951-405-6712.

Thank you once again for your valuable feedback and your ongoing efforts to improve housing affordability in our region.

Sincerely,

Cameron Brown Program Manager

June 1, 2024

Cameron Brown – TUMF – Program Manager Western Riverside Council of Governments

Email: cbrown@wrcog.us

Dear Mr. Brown,

Thank you for the opportunity to comment on the 2024 Draft TUMF Nexus Study. TUMF development impact fees are necessary and important to make growth pay its way. A Mitigation Fee is required to follow two basic rules

- 1. Establish a nexus or reasonable relationship between the development impact fee's use and the type of project for which the fee is required.
- 2. The fee must not exceed the project's proportional "fair share" of the proposed improvement and cannot be used to correct current problems or to make improvements for existing development.

The methodology to calculate the TUMF fees rely on inaccurate and out-of-date assumptions and relies almost exclusively on **Level-of-Service (LOS)** targets and ITE 11th edition trip rates for different land use categories. The current standard for all transportation analysis has been **Vehicle Miles Traveled (VMT)** since SB 743 was passed in 2013 and became the primary standard in 2020. Currently, the TUMF Nexus study only uses VMT to determine the 'relative distribution of traffic impacts between residential and non-residential uses'. This is not sufficient since capacity expansion will induce more VMT and VMT growth is a CEQA environmental impact. Moreover, the mindset that 'All new developments...cause an increase in travel demand. To meet the increased travel demand and **keep traffic flowing**, improvements to transportation facilities become necessary to sustain pre-development conditions.' This is 1960s era traffic analysis. The type and location of the development (i.e., location efficiency) shifts transportation demands from vehicle traffic to other transportation modes. A TUMF fee that shifts from an automobile centric peak period delay-centric analysis is needed.

In order to properly apportion the 'fair share' of regional VMT to different land-use categories and the reasonable relationship between the development impact fee, the following changes should be included in the Nexus study framework.

- Include average VMT by land-use type to weight trip rates. VMT needs to be characterized
 by land-use type including differentials between SFR and MFR housing to capture location
 efficiency and housing density impacts on average trip length. The current methodology
 omits this location efficiency to focus on LOS metrics of peak capacity.
- 2. Include VMT and the weight class of the vehicles to accurately reflect road damage, highway planning, and capacity requirements for passenger, medium-duty, and heavy-duty trips. The fourth-power law clearly indicates that heavier vehicle axle loads do exponentially more damage and are therefore the bulk of the road development costs. Bin average trip rates by class (passenger, medium-duty, heavy-duty) and use passenger-class equivalents (PCE) weightings or a similar metric to apportion additional cost to heavier vehicle classes that consume additional capacity and have higher average VMT.¹

¹ https://www.fhwa.dot.gov/reports/tswstudy/Vol3-Chapter9.pdf

- 3. Apportion home-based-work trips equally between residential and non-residential land-use categories. As the definition implies, the home-based-work trip has an origin of home and a destination of work thus the category should not be explicitly assigned to residential only trips. If half of non-work-based trips are assigned to the new employment categories, it will decrease costs of new home TUMF fees.
- 4. Avoid peak PM trip rates as the metric as this shifts burdens based on time-of-travel, rather than total usage via VMT metrics. Roadway capacity is an LOS metric and trip rates bias results in a manner that is not proportional to total use – inconsistent with nexus proportionality requirements.
- 5. Update WRCOG special requirements for calculating warehouse project gross square footage to reflect ITE 11th edition daily trip rates which include better parameterizations of high-cube warehouses than the ITE 9th edition trip rates used for that biased analysis

Given the significant changes requested it is possible that rerunning the modeling exercise will be required, during which time better assumptions should be made regarding model inputs of key factors including:

- Household growth projections (update to Connect SoCal 2024 rather than 2020)
- Employment growth projections (ditto)
- Apply different trip lengths based on type of trip
- Include vehicle weight as a factor impacting road usage for both capacity, stress, and traffic.
- Include accurate estimates of current and future industrial growth using CEQANET documentation of approved and planned projects

Given the programmatic goal of the TUMF nexus study fee, a wholesale re-evaluation of the purpose of the fee needs to be considered to better align with County climate adaptation and greenhouse gas emissions policy goals of reducing VMT. Alternative options for Mitigation Fees have been explored by other areas, as described by Barbour, 2022, 'From LOS to VMT: Repurposing Impact Fee Programs Since Adoption of SB 743'.

- Apply a LOS-based approach but only for transit efficiency (San Francisco, El Cerrito). Roadway LOS under this nexus would only be applicable insofar as it slowed down transit access (bus, shuttle, rail)
- Apply a solely VMT-based metric and measures of need (San Mateo County, Culver City).
 The metric is VMT-focused (trip rates multiplied by trip lengths) rather than LOS-focused (measuring trips only and impacts on nearby roads/intersections). The VMT-based metric will necessarily capture 'location efficiency' of projects and make development fees cheaper in infill areas with more transit and mobility options, and thus reduce sprawl.
- VMT analysis in General Plan or Climate Action plan (San Diego, Vacaville). SB 743 compliance mechanisms were put in the General Plan with impact fees to fund VMT-reducing infrastructure. In Vacaville, VMT increases were considered a significant and overriding consideration and thus traditional auto-LOS were allowed to proceed.

Table 1 shows how the VMT scenarios would likely change based on better estimates of residential growth and warehouse growth within the region. Residential growth rate is based on Connect

SoCal 20202, Connect SoCal 20243, or CA Department of Finance Table P-24 Projections. Warehouse build out is based on 2018-2023 built industrial square footage from Riverside County Assessor Parcel database and future growth is based on CEQA environmental planning documents – see RivCo_warehouse_list.xlsx attachment, based on WarehouseCITY v1.19 open data product (McCarthy and Phillips, 2023).

Connect SoCal 2020 estimates of residential growth for Riverside County are 50% higher than Connect SoCal 2024 estimates and almost 200% higher than the California Department of Finance projects for the same 2018-2045 time period. Connect SoCal 2020 estimates of industrial build out are only 69 million square feet for the WRCOG region – over 91 million square feet of industrial projects (almost exclusively warehouses and distribution centers) were built from 2018 through 2023, another 117.8M SQ FT are approved for construction, and a further 148M SQ FT are undergoing CEQA Review. Connect SoCal 2020 is a useless projection of industrial development in the WRCOG region based on wildly inaccurate data.

Table 1 – VMT changes based on different input assumptions for TUMF nexus study inputs.

VMT Ratios 5	Residential growth rate 2018-	Industrial build out (SQ FT)	VMT home-	VMT non- home	Total VMT	fraction home-
scenarios	2045	2018-2045	based	based	growth	based VMT
Connect SoCal						
2020	34%	69,000,000	43,227,904	12,372,533	55,600,437	0.78
Connect SoCal 2024 Residential - Warehouse moratorium on new						
approvals	23%	208,800,000	29,242,406	13,463,424	42,705,830	0.68
Connect SoCal 2024 Residential - All warehouse						
projects approved	23%	357,700,000	29,242,406	14,553,613	43,796,018	0.67
CA DoF Residential						
- Warehouse						
moratorium	12%	208,800,000	15,256,907	10,065,353	25,322,261	0.60
CA DoF Residential - All warehouse						
projects approved	12%	357,700,000	15,256,907	17,951,683	33,208,591	0.46

In every scenario using the alternative inputs, the fraction of 'home-based VMT' declines substantially. In the most dramatic scenario with low residential growth and high warehouse growth, the VMT fraction from industrial is significantly higher than home-based trips. And I note

² https://scag.ca.gov/read-plan-adopted-final-connect-socal-2020

³ https://scag.ca.gov/connect-socal

⁴ https://dof.ca.gov/forecasting/demographics/projections/

that this is still using the existing assumption that home-based work trips are 100% due to residential trips; changing the fraction from 1 to 0.5 would drastically shift the fees to non-residential sectors since home-based work trips are the largest source of home-based VMT in the RIVCOM model outputs.

As a second example, I wanted to point out the inconsistency of the TUMF fee allocation of home-based-work trips compared to an emblematic warehouse project. The World Logistics Center was approved a few years ago and broke ground last year. In its Final EIR, it shows the following project trips table on p.4.15-47 - https://www.moval.org/cdd/pdfs/projects/wlc/FEIR.pdf

Table 4.15.0: Project Trips by Vehicle Type

7		AM Peak Hour		PM Peak Hour					
Vehicle Type	In	Out	Total	In	Out	Total	Vehicles	Surface Street PCEs	Freeway PCEs
PHASE 1	0 7	11	(i) (ii)		0	50 - 55		0	
Autos	1,197	466	1,663	412	1,396	1,807	30,879	30,879	30,879
Light Trucks	97	55	152	77	90	167	1,340	2,009	2,009
Medium Trucks	130	74	204	103	121	223	1,792	3,585	2,689
Heavy Trucks	345	197	542	273	320	594	4,760	14,279	7,140
Total	1,769	792	2,561	866	1,927	2,792	38,771	50,753	42,717
PHASE 2		le e	V).		3	50		i i	5
Autos	923	356	1,279	313	1,075	1,388	23,835	23,835	23,835
Light Trucks	75	43	118	60	70	130	1,046	1,569	1,569
Medium Trucks	100	57	157	79	93	173	1,389	2,778	2,083
Heavy Trucks	266	151	418	211	248	459	3,680	11,040	5,520
Total	1,365	606	1,971	663	1,486	2,149	29,950	39,222	33,007
FULL PROJECT	BUILD-0	DUT						N 101 0	
Autos	2,120	821	2,941	726	2,471	3,195	54,714	54,714	54,714
Light Trucks	172	98	271	137	160	297	2,385	3,578	3,578
Medium Trucks	230	131	361	182	214	396	3,181	6,363	4,772
Heavy Trucks	611	348	959	484	568	1,052	8,440	25,319	12,660
Total	3,134	1,398	4,532	1,529	3,413	4,941	68,721	89,975	75,724

PCE = passenger car equivalent

Source: Traffic Impact Analysis Report for the World Logistics Center, Parsons Brinckerhoff, September 2014.

Total number of vehicle trips is 68,721 vehicles per day. This exceeds the total number of non-home-based vehicle VM daily projected by the TUMF nexus study of 45,949 trips in Table 6.2 of the TUMF Nexus study by over 20,000 daily trips. Does a project like the World Logistics Center act as a node for trips? It is preposterous to claim that it does not, yet the TUMF nexus study says only the home growth matters and projects like the WLC should not pay TUMF fees for even half of the home-based-work trips they generate.

Given that the total square footage of warehouse growth in the WRCOG region is between 5-7 times larger than the WLC, this assumptions has huge distributional implications on what type of development pays proportional TUMF fees.

WRCOG has a key opportunity its TUMF program to better serve the needs of the region in addressing the housing crisis. Please consider significant revisions to TUMF nexus study fees to stop subsidizing warehouse growth.

Sincerely, Mike McCarthy, PhD - 92508



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July 22, 2024

Dear Mr. McCarthy,

Subject: Response to Comments on TUMF Nexus Study

Thank you for your detailed comments regarding the TUMF Nexus Study. We appreciate your insights on the use of Vehicle Miles Traveled (VMT) and Level-of-Service (LOS) targets, and the recommendations for adjusting the TUMF fee structure.

Considering your comments based around SB-743 and VMT, we would like to give a detailed response to the relationship between SB-743 and VMT.

SB 743 was signed into law in 2014 and went into effect on July 1, 2020. SB 743 requires that the CEQA documents analyze transportation impacts of a project using vehicle miles traveled (VMT) instead of level of service (LOS) or other delay-based metrics.

SB 743 had a significant impact by changing the way in which traffic studies were done for CEQA documents. Agencies had to determine appropriate analysis tools, impact thresholds, and potential mitigation measures as an VMT-centric approach is very different from an LOS-based approach.

Recognizing the potential impacts of SB 743, WRCOG completed the first regional study regarding SB 743 implementation which developed sample guidelines, thresholds, and analytical tools to assist WRCOG member agencies with the transition to VMT as a CEQA analysis metric. This study was completed in 2018.

In 2019, WRCOG commenced an effort to develop an approach to mitigation potential VMT mitigation impacts through a program separate from TUMF. At that time, a policy decision was made to maintain the focus of TUMF to mitigate congestion, which means that TUMF primarily funds expansions of roadways, interchanges, grade separations and other facilities. While TUMF does provide some funding to Riverside Transit Agency (RTA), over 90% of TUMF funds are allocated to roadway infrastructure projects.

The purpose of a VMT mitigation program is to identify programs and projects that reduce VMT which could include bicycle/pedestrian infrastructure, subsidized transit passes, contributions to affordable housing, and other similar efforts.

This policy decision reflects a clear demarcation between TUMF and any efforts to mitigate VMT. The following should be noted:

• SB 743 does not change any of the requirements of AB 1600 and therefore has no effect on the preparation of Nexus Studies such as the TUMF Nexus Study

- Payment of TUMF fees do not provide any VMT mitigation benefits since those are separate programs for development projects
- The TUMF Program does not provide any CEQA mitigation for any development or transportation project impacts
- Any transportation infrastructure project contained in the TUMF Nexus Study will be required to assess and mitigate all environmental impacts per the requirements of CEQA including any potential impacts related to VMT

It should be noted that the National Center for Sustainable Transportation (NCST)/Institute of Transportation Studies (ITS) at University of California, Davis released a white paper entitled From LOS to VMT: Repurposing Impact Fee Programs Since Adoption of SB 743 (November 2023). This document argues the SB 743 provides an opportunity for agencies for agencies to redirect their transportation impact fee programs towards more multi-modal improvements.

However, this white paper does not say that agencies are required to change their approach to impact fees and specifically states the following on Page ii:

Furthermore, even if they cannot do so for CEQA mitigation, cities can also still impose impact fees to improve/maintain LOS under provisions of the state's Mitigation Fee Act (MFA), so long as the fee program complies with requirements for demonstrating a "rational nexus" between the fee's purpose, the need for the fee, the cost of facilities for addressing the need, and the allocation of the fee to new development based on its contribution to the demonstrated need.

Therefore, this document acknowledges that WRCOG has the discretion to continue to develop and implement a fee program which funds roadway infrastructure projects as long as such a program complies with the requirements of AB 1600.

You recommended adjusting the TUMF fee based away from an automobile-centric peak period delay-centric analysis. TUMF addresses issues beyond CEQA, and peak period delay is the most prominent on the network in terms of LOS and VMT impact.

Moving on to your other comments, you suggested several changes to the Nexus study framework:

- 1. Include average VMT by land-use type to weight trip rates.
- 2. Include VMT and the weight class of vehicles to reflect road damage, highway planning, and capacity requirements.
- 3. Apportion home-based-work trips equally between residential and non-residential categories.
- 4. Avoid peak PM trip rates as the metric.
- 5. Update the special requirement for calculating warehouse project gross square footage to reflect ITE 11th edition daily trip rates.

Our responses to these suggestions are as follows:

- 1. Including average VMT by land-use type and weighting trip rates can be considered if the necessary tools and data are available. Presently, these tools do not exist in a way to quickly analyze every development.
- 2. Including VMT and vehicle weight class for accurate reflection of road damage and planning needs will also depend on the availability of appropriate tools and data.
- 3. Home-based trips should be apportioned to the home-based end since residential trip ends are the main factor in generating trips.
- 4. The concern about peak PM trip rates has been addressed in our approach to balancing LOS and VMT impacts.
- 5. Once the Nexus Study is adopted, the fee calculation handbook will be updated to reflect the latest fee and current ITE trip generation rates for warehouse projects.

You also suggested re-evaluating the purpose of the TUMF fee to better align with County objectives and looking at alternatives used in other areas. Regarding this, the TUMF program is overseen by elected officials from the WRCOG Executive Committee, who provide direction on the program's purpose and fee implementation. These elected officials make the final determination on the County's objectives regarding traffic mitigation.

Regarding the review of Table 1 and VMT scenarios, the Nexus Study uses data available at the start of the analysis. For this update, Connect SoCal was adopted years after the study commenced. This is why we regularly update the Nexus Study every four years to incorporate new demographics and trip behavior.

Finally, you mentioned that the TUMF fee is inconsistent with home-based-work trips compared to warehouse projects and used WLC as an example. This comparison involves disparate data pieces. The WLC table presents total peak hour trip generation at build-out, while Table 6.2 is used to apportion the fee between different non-residential land uses based on employment changes and median trip generation rates, not representing total trip numbers.

Thank you again for your valuable feedback and suggestions. We update the Nexus Study on a regular basis. While we are not considering any significant revisions to the Nexus Study at this time, many of your suggestions will be considered as we undertake this effort again in the future.

Sincerely,

Cameron Brown Program Manager

Attachment

Recommended Fee Schedule

Land Use Type	Units	Fee Per Unit
Single Family Residential	DU	\$15,476
Multi Family Residential	DU	\$7,816
Industrial	SF	\$2.33
Retail	SF	\$11.21
Service	SF	\$9.76



Western Riverside Council of Governments Planning Directors Committee

Staff Report

Subject: I-REN Codes & Standards Introduction

Contact: Karina Camacho, Analyst III, kcamacho@wrcog.us, (951) 405-6724

Date: August 8, 2024

Recommended Action(s):

1. Receive and file.

Summary:

I-REN Codes & Standards services and offerings, including training and technical assistance are available to WRCOG member agencies. Members have access to I-REN training courses, which provide information on existing requirements for energy and building codes, as well as continuing education on the latest changes and trends in codes and standards. In addition, I-REN also offers personalized technical support for jurisdictions, including reach code development and permit guides. WRCOG is encouraging member agencies to use these available services at their cities and agencies.

Purpose / WRCOG 2022-2027 Strategic Plan Goal:

The purpose of this item is to highlight I-REN's work with WRCOG public agencies and encourage continued collaboration with the County and cities in the sub region. I-REN supports WRCOG's 2022-2027 Strategic Plan Goal #6 (Develop and implement programs that support resilience for our region).

Discussion:

Background:

The purpose of the I-REN Codes & Standards sector is to empower and support local building department staff and building professionals to be energy-efficiency leaders in their communities across the Inland Empire. There is a significant opportunity for codes and standards-related energy savings in the region's existing building stock through code-compliant equipment installation, additions, alterations, and renovations. The Codes and Standards Program is no-cost to serve building department staff, other local government staff, building professionals, other permit applicants, partner agencies, utilities, Community Choice Aggregators (CCAs), industry, stakeholder, and professional groups.

These Energy Code (Title 24, Part 6) sessions encompass best practices aimed at enhancing code compliance and enforcement for building departments and professionals across Riverside and San Bernardino counties. Since launching in February 2023, I-REN has hosted over 20 Codes & Trainings

with over 230 attendees from across the subregion. Previous training topics include accessory dwelling units (ADUs), solar panels, building envelope, and heat pump water heaters among other important energy code related topics. Training information including dates and registration can be found on the iren.gov website under Codes & Standards Trainings. Most of the I-REN Codes & Standards trainings are online and recordings are posted 1 month after the training occurred. WRCOG agencies can also request a training on specific energy code topics and at a time that is most convenient for their staff.

In addition to trainings, the Codes & Standards sector provides personalized tailored energy code support. Local building department staff, private sector building professionals, and members of the public can ask any energy code questions and connect with an energy code mentor who can give a tailored and precise response. The Ask a Code Question form is on the <u>iren.gov</u> website under <u>Codes & Standards Technical Support</u>.

Current Situation:

I-REN is asking our jurisdictions please to share information about I-REN's Codes & Standards offerings. Cities like <u>Grand Terrace</u> have included links on the city's local building department website to I-REN's Codes & Standards trainings and technical support resources. I-REN can also provide flyers for jurisdictions to post at agency's permit desk.

Prior Action(s):

None.

Financial Summary:

All costs associated with the development and implementation of I-REN are included in WRCOG's adopted Fiscal Year 2024/2025 Agency Budget under the I-REN budget (Fund 180) in the Energy & Environmental Department.

Attachment(s):

Attachment 1 - 2024 I-REN Codes & Standards Energy Code Trainings

Attachment 2 - I-REN Codes & Standards Technical Support Options

Attachment

2024 I-REN Codes & Standards Energy Code Trainings



Codes & Standards Energy Code Trainings



2024 No-cost ICC-approved Trainings

Dates below are tentative and subject to change.

Training Course	2024 Dates
Accessory Dwelling Units (ADUs)	Thursday, January 25
2022 Energy Code: Overview of Solar PV and Energy Storage Systems	Thursday, February 22
Basic Building Science	Thursday, March 28
Unlocking School Energy Savings	Thursday, April 25
Residential HVAC Load Calcs/Duct Design for Building Departments	Thursday, May 30
Quality Insulation Installation	Thursday, June 27
Controlled Environment Horticulture (CEH) – 2022 Energy Code	Thursday, July 25
Heat Pump Water Heaters for Building Departments	Thursday, August 22
Single-family Lighting – 2022 Energy Code	Thursday, September 19
IHACI AC/Heat Pump Spanish Language Training Series	September 23, 24, 30, & October 1
Mechanical Measures	Thursday, October 10
Exploring CodeCycle with the CEC	Thursday, October 31
Reach Codes	November TBD
Navigating the Energy Code	Thursday, December 12

These 2022 Energy Code (Title 24, Part 6) sessions encompass best practices aimed at enhancing code compliance and enforcement for building departments and professionals across Riverside and San Bernardino counties. Email **info@iren.gov** or visit www.iren.gov/161/CS-Trainings for more information.







Attachment

I-REN Codes & Standards Technical Support Options



iren.gov

I-REN Codes & Standards: Technical Support

Existing buildings pose unique challenges for energy code compliance compared to new construction, but far outnumber new buildings in the Inland Empire. There is a significant opportunity for upgrades and energy savings through code-compliant equipment installation, additions, alterations, and renovations.

For that reason, I-REN is empowering and supporting local building department staff and building professionals to be leaders in their own communities. I-REN offers **no-cost** resources to educate the workforce, improve energy code compliance, and adopt reach codes or ordinances.

Resources for Building Departments

Customized Trainings and Permit Guides

I-REN can develop localized resources or trainings for department staff and permit applicants. These can include permit guides, checklists for specific application types, or customized training sessions on specific topics.

About this service:

- Permit guides or checklists for permit applicants or department staff
- Customized trainings for your building department

Code Compliance Software & Grant Application Support

I-REN offers technical assistance with mobile permitting software research and implementation. The team can also act as a project manager for grant applications to increase funding for your department's code compliance improvement efforts.

About this service:

- Support with SolarAPP+, Symbium, CBECC RES, CodeCycle, and mobile permitting software
- Grant application project management for CalAPP, etc.









Reach Codes Support

Your jurisdiction can be a leader in promoting energy efficiency that goes beyond the California Energy Code (reach code).

I-REN can help you identify cost-effective options, draft reach code ordinances, and support with staff proposals and public outreach.

About this service:

- Review Cost Effectiveness Explorer for your jurisdiction
- Support reach code development and adoption

Resources for All Building Professionals (Public & Private Sector)

Ask an Energy Code Question

Have a question about energy code compliance? I-REN's "Ask an Energy Code Question" service provides tailored support to aid building professionals in navigating the Energy Code.

About this service:

- Access to energy code experts
- Easy and straightforward online form
- Response within two business days

Interested in learning more?

Email: info@iren.gov

Visit: https://iren.gov/162/CS-Technical-Support