

Draft 2023 Federal Transportation Improvement Program (FTIP)

FFYs 2022-23 to 20 25-26

Tulare County Association of Governments

May 20, 2022

Table of Contents

The Tulare County Region.....	1
Employment.....	1
Demographics.....	2
Transportation.....	2
FTIP Process and Development.....	4
Public Involvement Process.....	4
Environmental Justice.....	5
Inflation.....	5
Operations & Maintenance.....	6
Financial Constraint.....	7
Relationship of FTIP to Other Federal and State Transportation Programs.....	7
Fund Sources Programmed in the FTIP.....	8
Consistency with Other Documents.....	9
Air Quality Assessment.....	11
The San Joaquin Valley.....	11
Project Priority.....	13
Project Selection.....	13
Financial Constraint and the Financial Plan.....	14
AB 1012- “Timely Use of Funds or Use it or Lose it” Legislation.....	14
Federal Funding (FHWA and FTA Programs).....	15

State, Regional and Local Funding.....	18
Transportation Demand Management (TDM).....	19
FAST Act Compliance.....	20

Appendices

Appendix A – Financial Summary Sheets
Appendix B – FTIP Project Listings
Appendix C – Grouped Project Listings
Appendix D – Performance Measures
Appendix E – 2023 FTIP Resolution
Appendix F – Public Notice
Appendix G – Comments Received and Responses
Appendix H – Air Quality Conformity Document
Appendix I – Expedited Project Selection Procedures
Appendix J – 2023 FTIP Checklist and Development Guidance
Appendix K – Public Participation Plan
Appendix L – Project Selection Guidelines

Introduction

The Tulare County Region

The County of Tulare is part of the San Joaquin Valley region of California. The other counties within the region include: Fresno, Kern, Kings, Madera, Merced, San Joaquin, and Stanislaus Counties. Collectively, the San Joaquin Valley region has a population of just over 4 million and encompasses a land area of nearly 27,500 square miles. The region stretches from Sacramento in the north to the Tehachapi Mountains in the south and is generally bounded by the Coastal Range on the west and Sierra Nevada Range on the east. The San Joaquin Valley region contains some of the richest and most productive farmland in the world.

Among the other San Joaquin Valley counties, Tulare County ranks fifth in total population (481,649) and third in overall land area (4,824 square miles). The western one-third of Tulare County is in the topographically flat agricultural valley region while the remaining area to the east is located within the rolling foothills and peaks of the Sierra Nevada Mountains. From camping, hiking, and water activities in foothills, National Parks and Forests to agricultural tourism in the valley, the landscape offers an abundance of scenic and recreational opportunities for residents and visitors. The land in the Valley produces a wide variety of agricultural products making Tulare County one of the top agricultural producing counties in the nation.

Nearly half of all land in the county is devoted to national parks or national forests. It also has a large agricultural sector

and routinely garners one of the highest crop values in the nation. Its most prevalent commodity is milk, which generates over \$1.9 billion in annual output. The county is also a large producer of oranges, cattle, and grapes.

Employment

As of December 2021, the labor force in Tulare County was approximately 197,000. The number of employed was 180,400 making the unemployment rate 8.4% (State of California Employment Development Department, 2022). This is down from an unemployment rate of 19.3% in April 2020 which was primarily the result of the COVID-19 shelter in place requirements that began in March 2020. The median household income in Tulare County from the period 2015 to 2019 was \$49,687.



Cartmill Interchange (Tulare, Ca)

The per capita income during the same period was \$21,380 (U.S. Census Bureau Quick Facts, 2020). The largest employment gains projected in the region are government (+4,200 jobs), professional and business services (+2,900 jobs), education and healthcare (+2,900 jobs), and leisure and hospitality (+2,400 jobs). (+600 jobs), and manufacturing (+600 jobs).

Demographics

The population of Tulare County is concentrated in the Valley region where there are eight incorporated cities. Together, the eight cities comprise approximately 70% (336,657) of the total County population of 481,649 (Table 1-1) (DOF, February, 2022). Also shown on Table 1-1 are housing and employment characteristics of the each of the cities and the County.

Table 1-1 2021 Population, Housing, and Employment within the TCAG Region			
Jurisdiction	Population	Housing Units	Jobs
Dinuba	26,085	6,982	11,315
Exeter	11,068	3,747	5,111
Farmersville	11,439	2,875	5,363
Lindsay	13,200	3,612	5,719
Porterville	59,863	18,594	27,498
Tulare	68,070	21,730	32,001
Visalia	139,132	49,326	71,181
Woodlake	7,800	2,267	3,650
Tulare County	144,992	45,299	25,308
TCAG Region Total	481,649	154,436	187,137

Transportation

State Highways play an important role in Tulare County's transportation system. Highway traffic in Tulare County is generally composed of farm-to-market, commuter, business, and recreational trips. With the County's increasing population, the percentage of commuter and business trips is also increasing.

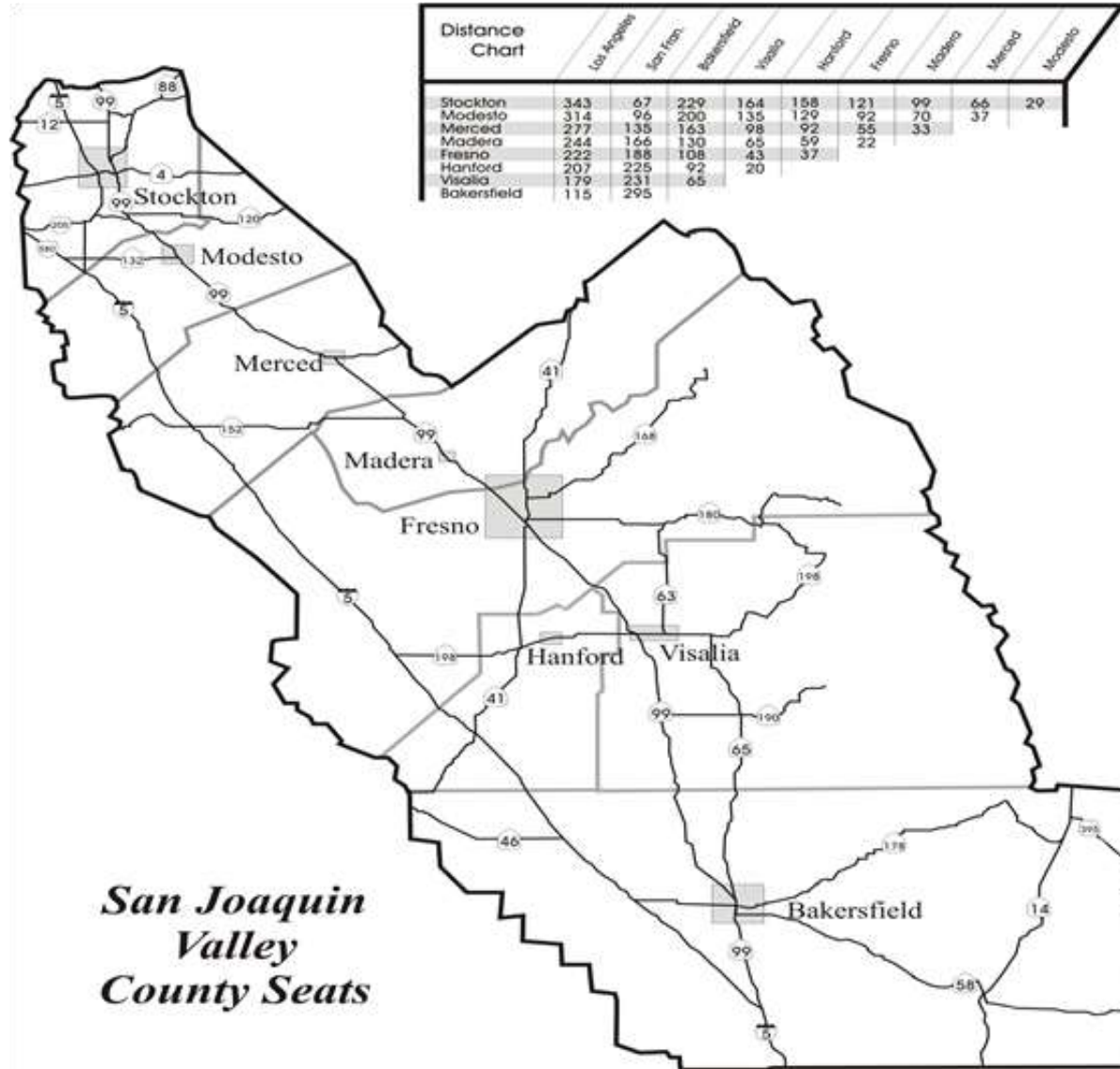
Tulare County contains approximately 3,050 miles of county roads (fourth largest in the State), 930 miles of city streets and 350 miles of State Highways. There is one commercial airport, two regional airports and four public general aviation airports. There are approximately 300 rail line miles in the County.

To relieve the current stress on the State Highway system, Tulare County received over \$200 million in Proposition 1B State Bond funds to aid in important transportation projects such as the rehabilitation and widening of SR 99, SR 198 (\$105 million) and three railroad grade separations (\$60 million).

In light of this growth and the impacts associated with it, Tulare County Association of Governments (TCAG) is developing processes that address transportation planning and air quality issues of the region. The policies have focused on the development of local expertise, citizen participation and state of the art planning tools.

The regional transportation model, the Regional Transportation Plan (RTP), the Regional Transportation Improvement Program (RTIP) and this document, the 2023 Federal Transportation Improvement Program (FTIP), are all examples of this activity.

Figure 1-1
San Joaquin Valley County Seats



The Federal Transportation Improvement Program Process and Development

FTIP Process and Development

TCAG prepares the FTIP in cooperation with its member agencies, transit operators, State and federal agencies, Tule River Indian Reservation and through the public participation process which includes outreach to disadvantaged or Title VI populations. Many of the projects in the 2023 FTIP are carried over from the 2021 FTIP. To decide which projects to carry over, TCAG asked sponsors of projects in the 2021 FTIP to indicate which of their projects had been completed, were well underway, or were still in the planning or early implementation stages. In addition, project sponsors were asked to review the funding sources, amounts for new projects, and project components of existing projects to ensure that TCAG programming actions are reflected accurately in the 2023 FTIP.

As federal funding programs under MPO's control are developed, notifications are sent out to eligible agencies and to the public informing them of the appropriate way projects may be submitted for consideration.

Public Involvement Process

TCAG is committed to a public involvement process that is transparent, proactive and provides comprehensive information, timely public notice, full public access to key decisions, and opportunities for continuing public involvement, thereby meeting federal transportation act requirements for an appropriate project selection process.

TCAG provides many methods to fulfill this commitment, as outlined in TCAG's 2020 Public Participation Plan (Appendix J). Some of the methods include: a public participation process whereby citizens and groups may seek membership on various committees; posting of all FTIP documents on TCAG's website; a public awareness program that includes informational advertisements in regional newspapers, television, radio announcements; and transportation surveys conducted at the annual Tulare County Fair to disseminate information and to gather feedback. TCAG staff also regularly conducts speaking engagements with civic organizations throughout Tulare County. Finally, there are public notices and required public hearings prior to the adoption of the FTIP and other TCAG documents and programs.

The FTIP's public involvement process is also used to satisfy the public participation requirement for the development of the Program of Projects (POP) for the FTA 5307 program. The public involvement activities and time established for public review and comment for the FTIP will satisfy the POP requirements of the FTA 5307 Program.

Environmental Justice

TCAG is sensitive to the environmental justice and demographics of Tulare County. Much of the population earn at or below the federal poverty level and is made up of various income levels and ethnicities. Given the relatively modest socioeconomic position of residents, access to alternative mobility options such as transit and bicycle facilities is critical. TCAG reaches out to all socio-economic levels by holding public hearings and board meetings throughout the County. TCAG also encourages participation through the unmet transit needs process and through outreach efforts at community centers, clinics, and various social programs throughout the County.

The process by which projects are selected for inclusion in the FTIP considers Title VI and environmental justice requirements. Projects selected for inclusion in the FTIP are consistent with the 2022 Regional Transportation Plan & Sustainable Communities Strategy (2022 RTP/SCS) as required by federal law. As part of the development of the 2022 RTP/SCS, TCAG engaged in a rigorous outreach process that included numerous meetings and presentations to boards, city councils, committees, and organizations throughout the County.

The RTP Roundtable was established with representatives from tribal governments, affordable housing advocacy, disabled access/ADA, environmental justice advocacy, affordable housing, agriculture, environmental advocacy, and health and human services.

Community Strategy Outreach efforts were held in the Fall of 2021 in each of the incorporated cities and in unincorporated communities. TCAG staff was also invited to hold workshops at various local community groups and town councils. The results of these efforts have helped to ensure that the projects included in 2022 RTS/SCS and their incorporation into the 2023 FTIP provide equitable planning and programming for traditionally underrepresented communities.



Santa Fe Pedestrian Grade Separation (Tulare, CA)

Inflation

Projects programmed into the FTIP must be financially constrained and are escalated to year of expenditure dollars. The methodology used to determine the inflation factor for each project varies from 3 to 5 percent a year as outlined in the Financial Element of the 2022 RTP/SCS. Inflation is based on a straight-line projection and average cost increases. These

numbers are monitored and compared to the inflation factors experienced by Caltrans engineers in District 6.

For Transit projects, a financial capacity report is required to assure continued ability to operate; certification of the assessment is provided pursuant to Federal Transit Administration's Circular 7008.1. Since grants are on an annualized grant cycle, projects shown beyond 24/25 are "projections." As the amounts become known for each new fiscal year from the granting agencies, these years are formally amended into the FTIP consistent with the actual grants.

Operations & Maintenance

The existing transportation system in Tulare County includes an extensive network of local streets and roads, bridges, state highways, and transit. Local streets and roads connect our communities and carry traffic throughout our region whether by automobile, heavy truck, bus, or bicycle.

Pavement management of local streets and roads is the responsibility of each local government in Tulare County. As such, the operations and maintenance of these facilities are a priority in making transportation investment decisions. These transportation investments provide for the following activities: preserving and improving local roadway conditions involving traffic operation management as well as routine maintenance, preventative maintenance, rehabilitation and reconstruction of pavement and bridges.

In 2020, a comprehensive statewide needs assessment of the local streets and roads system was commissioned by a collective body of city and county Public Works Agencies

including Regional Transportation Planning Agencies. Collected every two years, the 2020 survey was an update to the sixth statewide survey conducted just two years earlier. The 2020 study looked at state's transportation system to provide critical analysis and information on the local transportation network's condition and funding needs on a statewide level. The result of the study shows that on a scale of zero (failed) to 100 (excellent), Tulare County's local streets and roads have an average Pavement Condition Index (PCI) of 62, which is the same PCI reported in 2018, but up two points from what was reported in 2016. The statewide average pavement condition has increased by one point from 65 in 2018 to 66 in 2020. A PCI of 66 is identified as an "At-risk" category.

Funding for local roadway operations and maintenance in Tulare County is provided through six major programs: state gas tax, state Senate Bill 1 Local Streets and Roads funds, state Local Transportation Fund (LTF), federal Surface Transportation Block Grant Program (STBGP), Highway Bridge Program (HBP), and Measure R, the local transportation sales tax. The 2023 FTIP identifies a total of \$113 million in these revenues to support operations and maintenance of the local street and bridge networks.

Operations and maintenance of California's 50,000 lane-mile state highway system is the responsibility of the California Department of Transportation (Caltrans). Caltrans manages this effort through the State Highway Operation and Protection Program (SHOPP). Caltrans monitors the condition and operational effectiveness of the state highway system, including all state-owned highways and bridges, through periodic inspection, traffic studies, and system analysis.

Caltrans prepares a 10-year plan for SHOPP projects based upon the needs identified by each Caltrans District across the state through this monitoring. Caltrans subsequently prepares a 4-year program of SHOPP projects every two years based upon funding approved by the California Transportation Commission (CTC) and the statewide funding priorities at that time. The CTC is required to adopt the 4-year SHOPP and ensures consistency with available state funding. Based upon programming from the 2020 SHOPP, the 2023 FTIP identifies a total of \$252.2 million in SHOPP revenues to support state highway operations and maintenance. Transit operations and maintenance of the existing transit system in Tulare County includes operating assistance to transit operators, vehicle maintenance, vehicle replacement, and safety/security investments for bus transit. Transit operations and maintenance is the responsibility of the individual transit operators including the Tulare County Regional Transit Agency and the City of Visalia. Funding for transit operations and maintenance is primarily provided through six programs: Federal Transit Administration 5307, Federal Transit Administration 5311, Local Funds, and transit fares. The 2023 FTIP identifies a total of \$53.4 million in these revenues to support transit operations and maintenance – this total is expected to meet the operations and maintenance needs of all transit operators in the region.

Financial Constraint

The FTIP must be financially constrained, meaning that the amount of funding programmed must not exceed the amount of funding estimated to be reasonably available. In developing the 2023 TIP, TCAG has taken into consideration the transportation funding revenues expected to be available

during the four years of the 2023 FTIP (Federal FY 22/23 through 25/26), and has determined the 2023 FTIP to be financially constrained. All funds identified in the 2023 FTIP are required to operate and maintain the transportation system for Tulare County.

Relationship of FTIP to Other Federal and State Transportation Programs

Federal Statewide Transportation Improvement Program (FSTIP): Just as each metropolitan region is required to develop a FTIP, each state is required to develop a Federal Statewide Transportation Improvement Program (FSTIP) pursuant to federal regulations. The FSTIP includes all federally funded transportation projects from throughout the state. In California, regional FTIPs are included in the FSTIP without modification once approved by the respective Metropolitan Planning Organization, such as TCAG and after the FHWA and FTA make their required financial constraint and air quality findings. Projects must be in the FSTIP before funding authorities such as FTA, FHWA or Caltrans can “obligate” funds and before sponsors can actually spend and be reimbursed for any of these funds.

State Transportation Improvement Program (STIP): The California Transportation Commission (CTC) is required to biennially adopt, and submit to the Legislature and the Governor, a State Transportation Improvement Program (STIP). The STIP is a comprehensive listing of all major projects to be funded from specified state funding programs, including certain federal funds that flow directly to the state. As a result, many of the projects that are included in the STIP must eventually be included in the regional FTIPs and the

FSTIP as well. The bulk (75 percent) of the STIP consists of spending programs developed at the regional level throughout California called the Regional Transportation Improvement Program (RTIP). The CTC releases a Fund Estimate identifying the programming capacity it can expect to receive from various sources. This estimate is guided by statutory requirements that direct how the funds are divided throughout the state. Once TCAG adopts the RTIP for the Tulare County region, the CTC must accept or reject the RTIP in its entirety and send it back to the region for revision. Meanwhile, Caltrans proposes the counterpart to the RTIP, the Interregional Transportation Improvement Program (ITIP) for the remaining 25% of the programming capacity of the STIP. The ITIP is intended to address transportation infrastructure needs that cross metropolitan boundaries and link the state's transportation system. For example, connecting the urbanized areas between Visalia and Los Angeles would be an "interregional improvement". The CTC adopted the 2022 STIP Fund Estimate on August 18, 2021 and adopted the 2022 STIP on March 16, 2022.

Fund Sources Programmed in the FTIP

The 2023 FTIP programs transportation funding from a variety of sources. Several of the major sources from which funds are programmed include:

Federal Highway Administration (FHWA) Programs

- Surface Transportation Block Grant Program (STBGP)
- Congestion Mitigation and Air Quality Improvement Program (CMAQ)

- Highway Bridge Program (HBP)
- Highway Safety Improvement Program (HSIP)

Federal Transit Administration (FTA) Programs

- Section 5307
- Section 5310
- Section 5311
- Section 5339

State, Regional, and Local Programs

Not all state and local funds have to be programmed in the FTIP. However, if these funds are used to match federal dollars described above, or if they are attached to projects that require some type of federal approval or other formal federal actions, or if the project funded is considered to be regionally significant, they must be included in the FTIP. Such state and local fund sources may include the following:

- State Transportation Improvement Program (STIP), comprising the Regional Transportation Improvement Program (RTIP) and the Interregional Transportation Improvement Program (ITIP);
- Road Repair and Accountability Act of 2017 (SB 1)
- State Highway Operations and Protection Program (SHOPP);
- Active Transportation Program (ATP)
- Transportation Development Act (TDA) – Local Transportation Fund & State Transit Assistance (STA) funds;

- Tulare County Regional Transportation Measure funds (Measure R); and
- Local County and City Funds

Consistency with Other Documents

The 2023 FTIP is consistent with the following regional documents:

- The 2022 Tulare County Regional Transportation Plan and Sustainable Communities Strategy (2022 RTP/SCS);
- The 2022 Tulare County Regional Transportation Improvement Program (RTIP) adopted by TCAG on December 6, 2021;
- The 2022 State Transportation Improvement Program (STIP) adopted by the California Transportation Commission (CTC) on March 16, 2022; and
- The Tulare County Measure R Strategic Work Plan

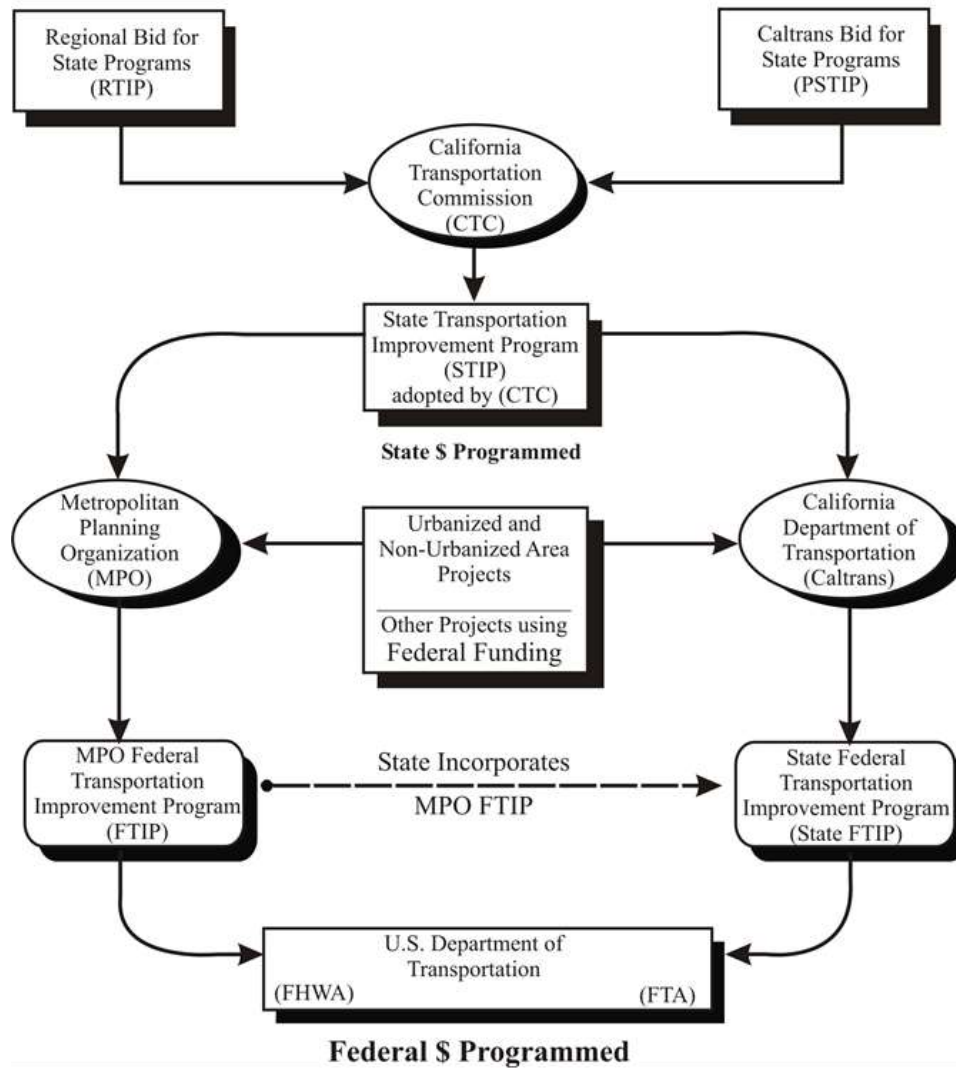
The 2023 Tulare County FTIP is also consistent with county shares for State Highway Account Funds and with federal funding levels identified in MAP-21 and the FAST Act.

For an overview of the FTIP development process, reference Figure 1-2 on the following page.



Porterville City Transit Bus (Porterville, CA)

**Figure 1-2
FTIP DEVELOPMENT PROCESS**



Air Quality Assessment

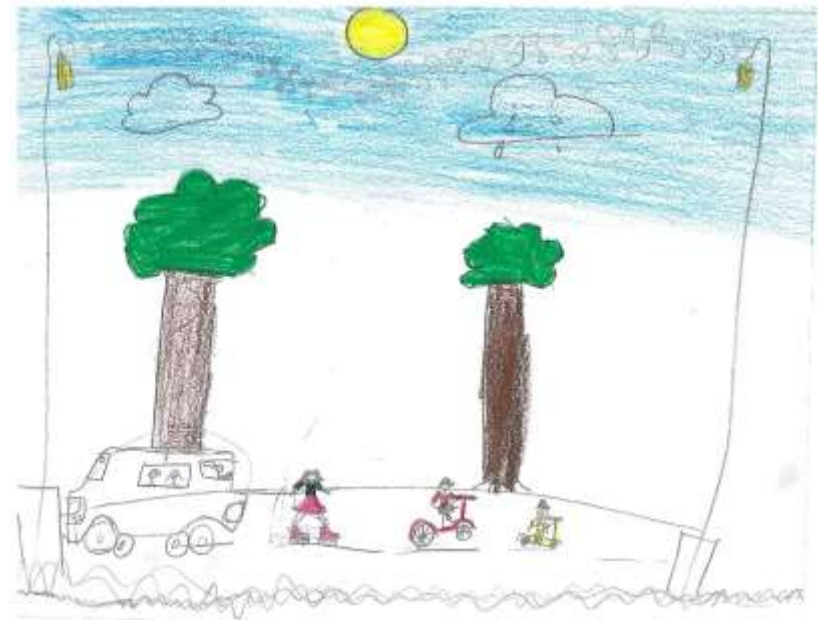
Air Quality Assessment

Tulare County is designated a non-attainment area with respect to federal air quality standards for ozone and particulate matter under 2.5 microns in diameter (PM2.5). As such, it must satisfy federal requirements to consider transportation control measures to reduce emissions adequate to demonstrate conformity with the State Implementation Plan (SIP) for Air Quality. The Transportation Control Measures do not interfere with timely implementation of the Transportation Control Measures contained in the State Implementation Plan (SIP). These control measures are set forth in plans, which in cumulative effect with other areas in California make up the SIP.

In non-attainment and maintenance areas, the Federal Highway Administration (FHWA) and Federal Transit Administration (FTA) must be able to find that the FTIP conforms to the adopted SIP and that priority has been given to timely implementation of the transportation control measures found in the SIP. The projects in the FTIP should also not further worsen the existing air quality problems.

The Tulare County Association of Governments, in coordination with the other eight MPOs in the San Joaquin Valley region, prepared an draft Air Quality Conformity Analysis for the 2023 FTIP. The assessment documents that local and Valley wide air planning issues and programs are sufficient to demonstrate that transportation control measures have been identified through a legitimate planning

process; that these measures have received the necessary federal, state and local commitment to ensure implementation; and that these commitments are being maintained through identification in the Regional Transportation Plan and the necessary programming of funds in the FTIP. The draft Air Quality Conformity Document is attached as Appendix G.



3rd Grade Walk N' Roll Art Contest Winner (Oak Valley Elementary School)

The San Joaquin Valley

The San Joaquin Valley consists of the Counties of Kern, Kings, San Joaquin, Fresno, Madera, Merced, Stanislaus and Tulare. These eight counties share an air quality basin that currently

does not meet the air quality standards set forth in the Federal Clean Air Act or the 1991 California Clean Air Act Amendments (CCAAA) for Ozone, PM10, and PM2.5 (reference Table 1-2 in 1991 CCAAA).

The eight Valley metropolitan planning organizations (MPOs) and the San Joaquin Valley Air Pollution Control District (SJVAPCD) have entered into a Memorandum of Understanding (MOU) to ensure a coordinated transportation and air quality planning process. The MOU defines a cooperative process designed to achieve compliance with the Environmental Protection Agency's (EPA's) Transportation Conformity Rule Amendment (August 15, 1997). A second MOU exists between the eight agencies to ensure a coordinated, cooperative transportation planning process on issues of mutual concern.

The Draft 2023 FTIP and draft Air Quality Conformity Analysis for the 2023 FTIP was released for a 30-day public review period on May 17, 2022 and a public hearing was held on June 27, 2022. The Final 2023 FTIP and Final Air Quality Conformity analysis were adopted by the TCAG Board on August 15, 2022. The FTIP includes the programming of four years of projects for all appropriate fund types. The 2023 FTIP is compliant with the current federal transportation authorization law called the Fixing America's Surface Transportation Act (FAST Act) and to the requirements set forth by the federal legislation.

The eight San Joaquin Valley counties are coordinating to achieve the required emissions levels set forth by the Air Resources Board through the 1991 CCAAA and the Federal Clean Air Act. One of the planning/programming efforts being

addressed by the eight counties in the San Joaquin Valley is the preparation and presentation of this FTIP.

Project Priority

Project Priority

In accordance with MAP-21 standards, TCAG establishes the following priority criteria:

All projects (as a group) shown in the first year of the quadrennial element (2022/23) shall have first priority.

All projects (as a group) shown in the second year of the quadrennial element (2023/24) shall have second priority.

All projects (as a group) shown in the third year of the quadrennial element (2024/25) shall have third priority.

All projects (as a group) shown in the fourth year of the quadrennial element (2025/26) shall have fourth priority.

Project Selection

Projects in the FTIP were selected using criteria based on various local, state and federal guidelines. For example, the selection of local Active Transportation Projects (ATP) is based on the criteria outlined in the MPO component ATP Guidelines adopted by the TCAG Board. The selection of CMAQ projects is also based on guidelines adopted by the TCAG Board of Directors. Copies and internet links to the selection guidelines for the following project types is available in Appendix L:

- Congestion Mitigation and Air Quality (CMAQ)

- Active Transportation Program (Statewide component)
- Active Transportation Program (MPO component)
- Highway Safety Improvement Program (HSIP)
- State Transportation Improvement Program (STIP)
- State Highway Operations Preservation Program (SHOPP)
- Measure R
- Surface Transportation Block Grant Program (STBGP)



SR-198 and Farmersville Blvd Roundabouts (Farmersville, CA)

Financial Plan

Financial Constraint and the Financial Plan

The FTIP is a financially constrained document that only contains projects which demonstrate the ability to be funded by federal, state, or local resources. All projects included in the FTIP exhibit the total project cost.

The revenue tables in Appendix A are intended to display available revenues to finance the projects contained in the FTIP. Federal and state revenue projections are based on the most current estimates provided by Caltrans.

Programs adopted by the State of California are in line with the State's available revenue estimates. The Tulare County FTIP reflects those State assumptions for federal funds that are available from the FAST Act to TCAG. The revenue estimates are provided by Caltrans. TCAG has utilized those estimates throughout the process with the goal of fully allocating all available revenues against eligible projects. Local fund commitments are reflected in each agency's local Capital Improvement Programs (CIPs), which are adopted annually by local resolution.

AB 1012- "Timely Use of Funds or Use it or Lose it" Legislation

In 1999 the State Assembly signed into law Assembly Bill 1012 (AB 1012). AB 1012 was written to increase the efficiency of transportation funding in order to ensure every available

transportation dollar is spent. The timely use of funds provision in AB 1012 will help accomplish this goal.

AB 1012 places time constraints on programmed projects to expedite the drawdown of the large cash balance in the State Highway Account. The legislation directs the California Transportation Commission and Caltrans to put taxpayer funds to work at the earliest possible time on transportation improvements.



Roosevelt Paseo Project (City of Dinuba)

The provisions in AB 1012 call for Congestion Mitigation and Air Quality (CMAQ) and State Transportation Block Grant Program (STBGP) funds to be delivered or obligated within three years. If the projects are not obligated, the MPO and Caltrans must prepare an Obligation Plan to spend the funds or the funds may be re-directed to other parts of the State.

The State Transportation Improvement Program (STIP) is subject to Senate Bill 184 (SB 184). SB 184 permits a local agency to expend its own funds for a STIP project, in advance of CTC's project approval for a project allocation and to be reimbursed for the expenditures. Any amendments to the STIP must be completed the year prior to the fiscal year it is programmed. Whenever programmed funds are not allocated within this deadline, the project programming will be deleted from the STIP. The CTC will adjust the share balance to restore the funds in the next county share period. No more than a twenty-month extension may be granted by the CTC for each project component. For further information regarding this legislation, refer to the CTC STIP Guidelines

Federal Funding (FHWA and FTA Programs)

Federal Highway Administration (FHWA) Funds

The Fixing America's Surface Transportation (FAST) Act was signed into law on December 4, 2015. The FAST Act replaces the previous transportation funding and authorization bill known as the Moving Ahead for Progress in the 21st Century Act or MAP-21. The FAST Act authorizes Federal highway, highway safety, transit, and rail programs for five years from Federal fiscal years (FY) 2016 through 2020. The transportation funding act was reauthorized in 2021 and

2022. The FAST Act is the first long-term comprehensive surface transportation legislation since the Safe Accountable Flexible Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-LU) Act in 2005. The FAST Act authorizes \$305 billion from both the Highway Trust Fund and the General Fund (GF) of the United States Treasury. It provides \$225 billion in Highway Trust Fund (HTF) contract authority over five years for the Federal-aid Highway Program, increasing funding from \$41 billion in 2015 to \$47 billion in 2020. The bill places major emphasis on freight investments to be supported by the HTF by creating a new National Highway Freight Program (NHFP) funded at an average of \$1.2 billion per year and distributed to the States by formula. In addition, a new discretionary program entitled the Nationally Significant Freight and Highway Projects is established, funded at an average of \$900 million per year (AASHTO).

Surface Transportation Block Grant Program (STBGP): Under the FAST Act, the Surface Transportation Program (STP) was renamed the Surface Transportation Block Grant Program (STBGP). The STBGP provides flexible funding that may be used by States and localities for projects to preserve and improve the conditions and performance on any Federal-aid highway, bridge and tunnel projects on any public road, pedestrian and bicycle infrastructure, and transit capital projects, including intercity bus terminals. In the TCAG region, these funds have been primarily used for street and highway construction, reconstruction, rehabilitation, resurfacing, and operational improvements. Each year when STBGP are distributed by the State, federal STBGP funds are exchanged for state funds for the agencies located outside the Visalia Urbanized Area boundary (Dinuba, Lindsay, Porterville, and Woodlake, and portions of the County of Tulare). For

agencies that are located within the Visalia Urbanized Area boundary (Visalia, Tulare, Farmersville, Exeter, and portions of the County of Tulare), the remaining STBGP funds are made available via a competitive project selection process.

Congestion Mitigation and Air Quality (CMAQ): Under the FAST Act, the CMAQ program continues to provide a flexible funding source to State and local governments for transportation projects and programs to help meet the requirements of the Clean Air Act. Funding is available to reduce congestion and improve air quality for areas that do not meet the National Ambient Air Quality Standards for ozone, carbon monoxide, or particulate matter (nonattainment areas) and for former nonattainment areas that are now in compliance (maintenance areas).

A wide and diverse variety of projects and programs are eligible for CMAQ projects. Transit vehicles, traffic synchronization projects, bicycle facilities, compressed natural gas (CNG) stations/vehicles, roundabouts and other projects have been programmed.

Highway Bridge Program (HBP): The purpose of the HBP is to replace or rehabilitate public highway bridges over waterways, other topographical barriers, other highways, or railroads when the State and the Federal Highway Administration determine that a bridge is significantly important and is unsafe because of structural deficiencies, physical deterioration, or functional obsolescence.

Reimbursable scopes of work include replacement, rehabilitation, painting, scour countermeasure, bridge approach barrier and railing replacement, low water crossing

replacement, ferry service replacement, and preventative maintenance activities.



Mineral King Road over S. Fork Kaweah River Bridge
(Three Rivers, CA)

About \$300 million of federal funds are made available to local agencies annually. The federal reimbursement rate is 88.53% of the eligible participating project costs including preliminary engineering, right of way, and construction costs. Bridge reconstruction or replacement on public roads off federal aid highways are eligible for 100% reimbursement.

Highway Safety Improvement Program (HSIP): The FAST Act continues the Highway Safety Improvement Program (HSIP) to achieve a significant reduction in traffic fatalities and serious injuries on all public roads, including non-State-owned public roads and roads on tribal lands. The HSIP requires a data-

driven, strategic approach to improving highway safety on all public roads that focuses on performance.

Federal Transit Administration (FTA) Funds

The Federal Transit Administration (FTA) provides grants to local public transit systems, including buses, subways, light rail, commuter rail, trolleys and ferries. Since 1964, FTA has partnered with state and local governments to create and enhance public transportation systems, investing more than \$11 billion annually to support and expand public transit services. FTA provides annual formula grants to transit agencies nationwide as well as discretionary funding in competitive processes.

Section 5307 (Urbanized Area Formula Grants): The Urbanized Area Formula Funding program (49 U.S.C. 5307) makes Federal resources available to urbanized areas and to Governors for transit capital and operating assistance and for transportation related planning in urbanized areas. An urbanized area is an Census-designated area with a population of 50,000 or more as determined by the U.S. Department of Commerce, Bureau of the Census.

The FTIP's public involvement process is being used to satisfy the public participation requirement for the development of the Program of Projects (POP) for the FTA 5307 program. The public involvement activities and time established for public review and comment for the FTIP will satisfy the POP requirements of the FTA 5307 Program.

Section 5310 (Mobility of Seniors and Individuals with Disabilities): To improve mobility for seniors and individuals with disabilities by removing barriers to transportation service

and expanding transportation mobility options. This program supports transportation services planned, designed, and carried out to meet the special transportation needs of seniors and individuals with disabilities in all areas – large urbanized (over 200,000), small urbanized (50,000-200,000), and rural (under 50,000). Eligible projects include both traditional capital investment and nontraditional investment beyond the Americans with Disabilities Act (ADA) complementary paratransit services.

Section 5311 (Rural Areas Formula Grants): This program provides capital, planning, and operating assistance to states and federally recognized Indian tribes to support public transportation in rural areas with populations less than 50,000, where many residents often rely on public transit to reach their destinations. It also provides funding for state and national training and technical assistance through the Rural Transportation Assistance Program.

Section 5339 (Buses and Bus Facilities Grants Program): The Grants for Buses and Bus Facilities program (49 U.S.C. 5339) makes Federal resources available to States and designated recipients to replace, rehabilitate and purchase buses and related equipment and to construct bus-related facilities including technological changes or innovations to modify low or no emission vehicles or facilities. Funding is provided through formula allocations and competitive grants. A sub-program provides competitive grants for bus and bus facility projects that support low and zero-emission vehicles.

State, Regional and Local Funding

State Transportation Improvement Program (STIP): The California Transportation Commission (CTC) is required to biennially adopt, and submit to the Legislature and the Governor, a State Transportation Improvement Program (STIP). The STIP is a comprehensive listing of all major projects to be funded from specified state funding programs, including certain federal funds that flow directly to the state. As a result, many of the projects that are included in the STIP must eventually be included in the FTIP and the FSTIP as well.

The bulk (75 percent) of the STIP, known as the Regional Transportation Improvement Program (RTIP), consists of spending programs developed at the regional level throughout California. Caltrans is responsible for developing a spending program for the remaining 25 percent of STIP funds. Known as the Interregional Transportation Improvement Program or ITIP, it is intended to address transportation infrastructure needs that cross metropolitan boundaries and link the state's regional transportation systems. For example, connecting the urbanized areas between Visalia and Tulare to Sacramento and Los Angeles would be an "interregional improvement". The CTC releases the STIP Fund Estimate identifying the programming capacity it can expect to receive from various sources. This estimate is guided by statutory requirements that direct how the funds are divided throughout the state. The CTC adopted the STIP Fund Estimate on August 2021 and adopted the STIP on March 16, 2022.

Road Repair and Accountability Act of 2017 (SB 1): SB 1, the Road Repair and Accountability Act of 2017, was signed into

law on April 28, 2017. This legislative package invests \$54 billion over the next decade to fix roads, freeways and bridges in communities across California and puts more dollars toward transit and safety. These funds will be split equally between state and local investments. Funds are distributed under both formulaic and competitive programs. The program is funded by a combination of higher gas and diesel taxes at the pump, and new road improvement fees assessed on vehicles at the time of registration. This also includes a special fee on zero-emission vehicles (started in 2020).

State Highway Operation and Protection Program (SHOPP): SHOPP is a program initiated by State legislation that includes State Highway safety and rehabilitation projects, seismic retrofit projects, land projects, building projects, landscaping, operational improvements, bridge replacement, and the minor program. Caltrans is the owner-operator of the State Highway System and is responsible for the maintenance. Unlike STIP projects, SHOPP projects may not increase roadway capacity. SHOPP uses a four-year program of projects, adopted separately from the STIP cycle. The State gas tax partially funds the program, but it is primarily funded through the nine-cent state gas tax from federal funds and is programmed prior to the STIP Fund Estimate.

Active Transportation Program (ATP): The purpose of the Active Transportation Program is to increase the overall health of individuals by encouraging increased use of active/non-motorized modes of transportation, such as biking and walking and to increase the safety and mobility for non-motorized users. The ATP is a competitive grant program with two funding competitions available for each funding cycle. The first is the statewide competition where each grant application

competes against every other application submitted throughout the state. If not funded at the statewide level, the projects have a second opportunity to be funded at the large MPO regional competition which is administered by the respective MPO. Since the inception of the Active Transportation Program in 2013, agencies in Tulare County have submitted 124 applications for ATP funding. Of those applications, 26 applications have been awarded ATP funds totaling \$22,843,000.

Transportation Development Act (TDA): The Transportation Development Act (TDA) provides two major sources of funding for public transportation: the Local Transportation Fund (LTF) and the State Transit Assistance fund (STA). These funds are for the development and support of public transportation needs that exist in California and are allocated to areas of each county based on population, taxable sales and transit performance. Some counties have the option of using LTF for local streets and roads projects, if they can show there are no unmet transit needs.

Tulare county Regional Transportation Measure (Measure R): Passed by the voters in Tulare County in 2006, Measure R consists of a ½ cent sales tax measure to fund major regional transportation needs in Tulare County through the year 2037. The Measure R Expenditure Plan outlines where the funds will be spent and what categories of projects will be funded. The funding categories include Regional Projects, Local Projects, Transit, Bicycle, Environmental (Air Quality), and Administration and Planning.

Local County and City Funds: The County of Tulare and eight incorporated cities also contribute toward transportation funding needs by contributing their own locally generated tax revenues. Combined, over \$14 million in locally generated tax revenues (not including Measure R) are proposed for projects in the 2023 FTIP.



SR-216/SR-245 Roundabout (Woodlake, CA)

Transportation Demand Management (TDM)

TDM consists of managing behavior regarding how, when and where people travel. TDM strategies are designed to reduce vehicular trips during peak hours by shifting trips to other modes of transportation and providing a jobs housing balance. TDMs specifically target the work force that generates the majority of peak hour traffic. Tulare County participates in the

Central Valley Ridesharing outreach program that is designed to educate employers and employees about the benefits of TDMs. TDM strategies include the following techniques:

- Rideshare Programs;
- Transit Usage;
- Flexible Work Hours;
- Vanpools;
- Bicycling and Walking;
- Telecommuting;
- Guaranteed Ride Home;
- Preferential Treatment for Ridesharing;
- Compressed Work Week; and
- Bicycle Facilities.

FAST Act Compliance

This section discusses the efforts TCAG has taken to be in compliance with the FAST Act requirements.

- **Timing:** Adoption of the 2023 FTIP is compliant with the federal requirements of the FAST Act. The 2023 FTIP is consistent with the 2022 RTP/SCS.
- **TIP Update Frequency and Time Span:** The 2023 FTIP will have four years of projects (2022/23 to 2025/26) and a prior year to meet SAFETEA-LU compliance.
- **Participation Plan:** TCAG adopted the Public Participation Plan (PPP) in November 2007 and amended it in 2009, 2011, 2015, and 2020. The PPP contains the guidelines and procedures for public

involvement in the transportation planning process. Public information is provided electronically upon request and online at www.tularecog.org.

- **Visualization techniques and Electronic Publishing:** Documents are currently available online. Visualization techniques include simulated traffic models and real time alternatives for different land use scenarios.
- **Publication of Annual Listing of Obligated Projects:** The annual listing is posted in December each year on the website and is available at TCAG offices. The annual publication also includes pedestrian and bicycle improvements.
- **System Preservation, Operation, and Maintenance Costs:** To the extent operations are funded through the current TIP, the revenues are shown. STBGP, SHOPP and other rehabilitation projects are shown.
- **Expanded Consultation requirements:** The expanded consultation includes giving reviewing agencies and the public time to comment on draft documents through Inter Agency Consultations (IAC). The 2023 FTIP mailing list will be updated as appropriate. TCAG regularly consults with the tribal organization in Tulare County.

Appendix A – Financial Summary Sheets

TABLE 1: REVENUE

Tulare County Association of Governments
2023 FEDERAL TRANSPORTATION IMPROVEMENT PROGRAM
 (\$'s in 1,000)

Funding Source/Program		NOTES	4 YEAR (FTIP Period)				
			FY 2023	FY 2024	FY 2025	FY 2026	TOTAL
LOCAL	Sales Tax		\$15,759	\$19,128	\$5,561	\$3,600	\$44,048
	City		\$15,379	\$19,119	\$3,600	\$3,600	\$41,698
	County		\$380	\$9	\$1,961		\$2,350
	Gas Tax						
	Gas Tax (Subventions to Cities)						
	Gas Tax (Subventions to Counties)						
	Other Local Funds						
	County General Funds						
	City General Funds						
	Street Taxes and Developer Fees						
	RSTP Exchange funds						
	Transit						
Transit Fares							
Other (See Appendix 1)		\$3,064	\$27,300	-\$4,699	-\$3,725	\$21,940	
Local Total		\$18,823	\$46,428	\$862	-\$125	\$65,988	
REGIONAL	Tolls						
	Bridge						
	Corridor						
	Regional Sales Tax		\$27,543	\$64,961	\$29,718	\$20,384	\$142,606
Other (See Appendix 2)							
Regional Total		\$27,543	\$64,961	\$29,718	\$20,384	\$142,606	
STATE	State Highway Operation and Protection Program (SHOPP) ¹		\$66,803	\$19,685	\$14,141		\$100,629
	SHOPP		\$66,803	\$19,685	\$14,141		\$100,629
	SHOPP Prior						
	State Minor Program						
	State Transportation Improvement Program (STIP) ¹		\$4,600	\$9,500			\$14,100
	STIP		\$4,600	\$9,500			\$14,100
	STIP Prior						
	State Bond						
	Proposition 1A (High Speed Passenger Train Bond Program)						
	Proposition 1B (Highway Safety, Traffic Reduction, Air Quality, and Port Security Bond Act of 2006)						
	Active Transportation Program (ATP) ¹		\$8,306		\$1,987		\$10,293
	Highway Maintenance (HM) Program ¹						
Highway Bridge Program (HBP) ¹		\$2,380	\$805	\$2,125		\$5,310	
Road Repair and Accountability Act of 2017 (SB1)		\$3,774				\$3,774	
Traffic Congestion Relief Program (TCRP)							
State Transit Assistance (STA)(e.g., population/revenue based, Prop 42)							
Other (See Appendix 3)		\$2,000	\$31,872			\$33,872	
State Total		\$87,863	\$61,862	\$18,253		\$167,978	
FEDERAL TRANSIT	5307 - Urbanized Area Formula Grants		\$6,500	\$6,500	\$6,500	\$6,500	\$26,000
	5309 - Fixed Guideway Capital Investment Grants						
	5309b - New and Small Starts (Capital Investment Grants)						
	5309c - Bus and Bus Related Grants						
	5310 - Enhanced Mobility of Seniors and Individuals with Disabilities						
	5311 - Formula Grants for Rural Areas		\$1,250	\$1,250	\$1,250	\$1,250	\$5,000
	5311f - Intercity Bus						
	5337 - State of Good Repair Grants						
	5339 - Bus and Bus Facilities Formula Grants		\$670	\$670	\$670	\$670	\$2,680
	FTA Transfer from Prior FTIP						
Other (See Appendix 4)							
Federal Transit Total		\$8,420	\$8,420	\$8,420	\$8,420	\$33,680	
FEDERAL HIGHWAY	Congestion Mitigation and Air Quality (CMAQ) Improvement Program		\$6,285	\$6,283	\$6,281	\$6,279	\$25,128
	Construction of Ferry Boats and Ferry Terminal Facilities (Ferry Boat Program)						
	Coordinated Border Infrastructure Program						
	Federal Lands Access Program						
	Federal Lands Transportation Program						
	GARVEE Bonds Debt Service Payments						
	Highway Infrastructure Program (HIP)						
	High Priority Projects (HPP) and Demo						
	Highway Safety Improvement Program (HSIP)			\$4,048	\$421		\$4,469
	National Highway Freight Program (NHFP)						
	Nationally Significant Freight and Highway Projects (FASTLANE/INFRA Grants)						
	Railway-Highway Crossings Program						
	Recreational Trails Program						
	SAFETEA-LU Safe Routes to School (SRTS)						
	Surface Transportation Block Grant Program (STBGP/RSTP)		\$3,125	\$3,125	\$3,125	\$3,125	\$12,500
Tribal Transportation Program							
Other (see Appendix 5)			\$1,028			\$1,028	
Federal Highway Total		\$9,410	\$14,484	\$9,827	\$9,404	\$43,125	
FEDERAL RAIL	Other Federal Railroad Administration (see Appendix 6)						
	Federal Railroad Administration Total						
Federal Total		\$17,830	\$22,904	\$18,247	\$17,824	\$76,805	
INNOVATIVE FINANCE	TIFIA (Transportation Infrastructure Finance and Innovation Act)						
	Other (See Appendix 7)						
Innovative Financing Total							
REVENUE TOTAL			\$152,059	\$196,155	\$67,080	\$38,083	\$453,377

Financial Summary Notes:
¹ State Programs that include both state and federal funds.

TABLE 1: REVENUE - APPENDICES

Tulare County Association of Governments
2023 FEDERAL TRANSPORTATION IMPROVEMENT PROGRAM
 (\$'s in 1,000)

Appendix 1 - Local Other

Local Other	4 YEAR (FTIP Period)				CURRENT TOTAL
	FY 2023	FY 2024	FY 2025	FY 2026	
Local Transportation Funds	\$6,150	\$5,500	\$5,500	\$5,500	\$22,650
Local Transportation Funds-Advanced Construction	-\$3,086	\$21,800	-\$10,199	-\$9,225	-\$710
Local Other Total	\$3,064	\$27,300	-\$4,699	-\$3,725	\$21,940

Appendix 2 - Regional Other

Regional Other	4 YEAR (FTIP Period)				CURRENT TOTAL
	FY 2023	FY 2024	FY 2025	FY 2026	
Regional Other Total					

Appendix 3 - State Other

State Other	4 YEAR (FTIP Period)				CURRENT TOTAL
	FY 2023	FY 2024	FY 2025	FY 2026	
CRRSAA Program (STIP)	\$2,000	\$972			\$2,972
State Route 99 Corridor Fund		\$30,900			\$30,900
State Other Total	\$2,000	\$31,872			\$33,872

Appendix 4 - Federal Transit Other

Federal Transit Other	4 YEAR (FTIP Period)				CURRENT TOTAL
	FY 2023	FY 2024	FY 2025	FY 2026	
Federal Transit Other Total					

Appendix 5 - Federal Highway Other

Federal Highway Other	4 YEAR (FTIP Period)				CURRENT TOTAL
	FY 2023	FY 2024	FY 2025	FY 2026	
CRRSAA Program (Non-STIP)		\$1,028			\$1,028
Federal Highway Other Total		\$1,028			\$1,028

Appendix 6 - Federal Railroad Administration Other

Federal Railroad Administration Other	4 YEAR (FTIP Period)				CURRENT TOTAL
	FY 2023	FY 2024	FY 2025	FY 2026	
Federal Railroad Administration Other Total					

Appendix 7 - Innovative Other

Innovative Other	4 YEAR (FTIP Period)				CURRENT TOTAL
	FY 2023	FY 2024	FY 2025	FY 2026	
Innovative Other Total					

TABLE 2: PROGRAMMED

Tulare County Association of Governments
2023 FEDERAL TRANSPORTATION IMPROVEMENT PROGRAM
 (\$'s in 1,000)

Funding Source/Program		N O T E S	4 YEAR (FTIP Period)				
			FY 2023	FY 2024	FY 2025	FY 2026	TOTAL
LOCAL	Local Total		\$18,823	\$46,428	\$862	-\$125	\$65,988
	Tolls						
REGIONAL	Bridge Corridor						
	Regional Sales Tax		\$27,543	\$64,961	\$29,718	\$20,384	\$142,606
	Other (See Appendix A)						
	Regional Total		\$27,543	\$64,961	\$29,718	\$20,384	\$142,606
STATE	State Highway Operation and Protection Program (SHOPP) ¹		\$66,803	\$19,685	\$14,141		\$100,629
	SHOPP		\$66,803	\$19,685	\$14,141		\$100,629
	SHOPP Prior						
	State Minor Program						
	State Transportation Improvement Program (STIP) ¹		\$4,600	\$9,500			\$14,100
	STIP		\$4,600	\$9,500			\$14,100
	STIP Prior						
	State Bond						
	Proposition 1A (High Speed Passenger Train Bond Program)						
	Proposition 1B (Highway Safety, Traffic Reduction, Air Quality, and Port Security Bond Act of 2006)						
	Active Transportation Program (ATP) ¹		\$8,306		\$1,987		\$10,293
	Highway Maintenance (HM) Program ¹						
	Highway Bridge Program (HBP) ¹		\$2,380	\$805	\$2,125		\$5,310
	Road Repair and Accountability Act of 2017 (SB1)		\$3,774				\$3,774
Traffic Congestion Relief Program (TCRP)							
State Transit Assistance (STA)(e.g., population/revenue based, Prop 42)		\$2,000	\$31,872			\$33,872	
Other (See Appendix B)							
State Total		\$87,863	\$61,862	\$18,253		\$167,978	
FEDERAL TRANSIT	5307 - Urbanized Area Formula Grants		\$6,500	\$6,500	\$6,500	\$6,500	\$26,000
	5309 - Fixed Guideway Capital Investment Grants						
	5309b - New and Small Starts (Capital Investment Grants)						
	5309c - Bus and Bus Related Grants						
	5310 - Enhanced Mobility of Seniors and Individuals with Disabilities						
	5311 - Formula Grants for Rural Areas		\$1,250	\$1,250	\$1,250	\$1,250	\$5,000
	5311f - Intercity Bus						
	5337 - State of Good Repair Grants						
	5339 - Bus and Bus Facilities Formula Grants		\$670	\$670	\$670	\$670	\$2,680
	FTA Transfer from Prior FTIP						
	Other (See Appendix C)						
	Federal Transit Total		\$8,420	\$8,420	\$8,420	\$8,420	\$33,680
FEDERAL HIGHWAY	Congestion Mitigation and Air Quality (CMAQ) Improvement Program		\$6,284	\$6,283	\$6,100	\$6,101	\$24,768
	Construction of Ferry Boats and Ferry Terminal Facilities (Ferry Boat Program)						
	Coordinated Border Infrastructure Program						
	Federal Lands Access Program						
	Federal Lands Transportation Program						
	GARVEE Bonds Debt Service Payments						
	Highway Infrastructure Program (HIP)						
	High Priority Projects (HPP) and Demo						
	Highway Safety Improvement Program (HSIP)			\$4,048	\$421		\$4,469
	National Highway Freight Program (NHFP)						
	Nationally Significant Freight and Highway Projects (FASTLANE/INFRA Grants)						
	Railway-Highway Crossings Program						
	Recreational Trails Program						
	SAFETEA-LU Safe Routes to School (SRTS)						
	Surface Transportation Block Grant Program (STBGP/RSTP)		\$3,086	\$3,000	\$3,125	\$3,125	\$12,336
	Tribal Transportation Program						
Other (see Appendix D)			\$1,028			\$1,028	
Federal Highway Total		\$9,370	\$14,359	\$9,646	\$9,226	\$42,601	
FEDERAL RAIL	Other Federal Railroad Administration (see Appendix E)						
	Federal Railroad Administration Total						
Federal Total			\$17,790	\$22,779	\$18,066	\$17,646	\$76,281
INNOVATIVE FINANCE	TIFIA (Transportation Infrastructure Finance and Innovation Act)						
	Other (See Appendix F)						
	Innovative Financing Total						
PROGRAMMED TOTAL			\$152,019	\$196,030	\$66,899	\$37,905	\$452,853

Financial Summary Notes:
¹ State Programs that include both state and federal funds.

TABLE 3: REVENUE-PROGRAMMED

Tulare County Association of Governments
2023 FEDERAL TRANSPORTATION IMPROVEMENT PROGRAM
 (\$'s in 1,000)

Funding Source/Program		4 YEAR (FTIP Period)					
		FY 2023	FY 2024	FY 2025	FY 2026	TOTAL	
LOCAL	Local Total						
REGIONAL	Tolls						
	<i>Bridge</i>						
	<i>Corridor</i>						
	Regional Sales Tax						
	Other						
	Regional Total						
STATE	State Highway Operation and Protection Program (SHOPP) ¹						
	<i>SHOPP</i>						
	<i>SHOPP Prior</i>						
	<i>State Minor Program</i>						
	State Transportation Improvement Program (STIP) ¹						
	<i>STIP</i>						
	<i>STIP Prior</i>						
	State Bond						
	<i>Proposition 1A (High Speed Passenger Train Bond Program)</i>						
	<i>Proposition 1B (Highway Safety, Traffic Reduction, Air Quality, and Port Security Bond Act of 2006)</i>						
	Active Transportation Program (ATP) ¹						
	Highway Maintenance (HM) Program ¹						
	Highway Bridge Program (HBP) ¹						
	Road Repair and Accountability Act of 2017 (SB1)						
	Traffic Congestion Relief Program (TCRP)						
	State Transit Assistance (STA)(e.g., population/revenue based, Prop 42)						
	Other						
	State Total						
FEDERAL TRANSIT	5307 - Urbanized Area Formula Grants						
	5309 - Fixed Guideway Capital Investment Grants						
	5309b - New and Small Starts (Capital Investment Grants)						
	5309c - Bus and Bus Related Grants						
	5310 - Enhanced Mobility of Seniors and Individuals with Disabilities						
	5311 - Formula Grants for Rural Areas						
	5311f - Intercity Bus						
	5337 - State of Good Repair Grants						
	5339 - Bus and Bus Facilities Formula Grants						
	FTA Transfer from Prior FTIP						
	Other						
		Federal Transit Total					
	FEDERAL HIGHWAY	Congestion Mitigation and Air Quality (CMAQ) Improvement Program	\$1		\$181	\$178	\$360
Construction of Ferry Boats and Ferry Terminal Facilities (Ferry Boat Program)							
Coordinated Border Infrastructure Program							
Federal Lands Access Program							
Federal Lands Transportation Program							
GARVEE Bonds Debt Service Payments							
Highway Infrastructure Program (HIP)							
High Priority Projects (HPP) and Demo							
Highway Safety Improvement Program (HSIP)							
National Highway Freight Program (NHFP)							
Nationally Significant Freight and Highway Projects (FASTLANE/INFRA Grants)							
Railway-Highway Crossings Program							
Recreational Trails Program							
SAFETEA-LU Safe Routes to School (SRTS)							
Surface Transportation Block Grant Program (STBGPIRSTP)		\$39	\$125			\$164	
Tribal Transportation Program							
Other							
	Federal Highway Total	\$40	\$125	\$181	\$178	\$524	
FEDERAL RAIL	Other Federal Railroad Administration						
	Federal Railroad Administration Total						
	Federal Total	\$40	\$125	\$181	\$178	\$524	
INNOVATIVE FINANCE	TIFIA (Transportation Infrastructure Finance and Innovation Act)						
	Other						
	Innovative Financing Total						
REVENUE - PROGRAMMED TOTAL		\$40	\$125	\$181	\$178	\$524	

TCAG
2022 Metropolitan Transportation Improvement Program
By Fund Type

Tulare County

	Total	Prior	22/23	23/24	24/25	25/26	Future	PE	RW	CON
Active Transportation Program - SB1	\$8,318	\$0	\$7,100		\$1,218					\$8,318
Active Transportation Program - SHA	\$1,070	\$120	\$181		\$769					\$1,070
Active Transportation Program (ATP)	\$1,288	\$263	\$1,025							\$1,288
BUILD-TIGER Discretionary Grants I	\$16,000	\$16,000								\$16,000
Bus and Bus Facilities Program - FT/	\$2,680	\$0	\$670	\$670	\$670	\$670				\$2,680
City Funds Fund Total	\$47,068	\$5,370	\$15,379	\$19,119	\$3,600	\$3,600		\$1,332	\$480	\$45,256
Congestion Mitigation Fund Total	\$34,268	\$0	\$6,284	\$6,283	\$6,100	\$6,101	\$9,500	\$1,636	\$1,636	\$30,996
Coronavirus Response and Relief Su	\$1,028	\$0		\$1,028						\$1,028
County Funds Fund Total	\$8,820	\$2,098	\$380	\$9	\$1,961		\$4,372	\$1,500		\$7,320
COVID Relief Funds - STIP Fund Tot	\$2,972	\$0	\$2,000	\$972				\$2,000		\$972
FTA 5311 - Non Urbanized Fund Tot:	\$5,000	\$0	\$1,250	\$1,250	\$1,250	\$1,250				\$5,000
FTA5307 - Urbanized Area Formula f	\$26,000	\$0	\$6,500	\$6,500	\$6,500	\$6,500				\$26,000
Future Funds Fund Total	\$213,200	\$0					\$213,200		\$29,200	\$184,000
Highway Bridge Program Fund Total	\$70,484	\$25,505	\$2,380	\$805	\$2,125		\$39,669	\$3,239	\$40	\$67,205
Highway Infrastructure Program (HIP	\$2,485	\$2,485								\$2,485
Highway Safety Improvement Progra	\$4,998	\$529		\$4,048	\$421					\$4,998
Local Partnership Program - Competi	\$9,000	\$9,000								\$9,000
Local Transportation Funds Fund Tot	\$22,937	\$287	\$6,150	\$5,500	\$5,500	\$5,500				\$22,937
Local Transportation Funds - Advanc	\$-3,086	\$2,247	\$-3,086	\$21,800	\$-10,199	\$-9,225	\$-4,623			\$-3,086
Private Funds Fund Total	\$9,500	\$9,500						\$1,500	\$8,000	
Regional Sales Tax Fund Total	\$195,857	\$37,251	\$27,543	\$64,961	\$29,718	\$20,384	\$16,000	\$15,366	\$21,349	\$159,142
Road Repair and Accountability Act c	\$5,161	\$1,387	\$3,774						\$1,387	\$3,774
SHOPP Advance Construction (AC) f	\$138,066	\$35,437	\$66,803	\$19,685	\$14,141		\$2,000	\$1,400	\$600	\$136,066
State Route 99 Corridor Fund Total	\$32,970	\$2,070		\$30,900				\$2,070	\$3,000	\$27,900
STIP Advance Construction Fund Tol	\$48,350	\$32,350	\$4,600	\$9,500			\$1,900	\$21,950	\$10,100	\$16,300
STP Local Fund Total	\$16,086	\$0	\$3,086	\$3,000	\$3,125	\$3,125	\$3,750		\$10,000	\$6,086
Total Programmed for all Funds:	\$920,520	\$181,899	\$152,019	\$196,030	\$66,899	\$37,905	\$285,768	\$51,993	\$85,792	\$782,735

Appendix B – FTIP Project Listings

Tulare County Association of Governments 2023 Federal Transportation Improvement Program

San Joaquin Format (Highest Version)

Active Transportation Program (ATP)

Route Postmile PIN Dist-EA Fund AQ Lead	Description Total Escalated Cost Status	Phase	Prior Years	Program Schedule (Construction costs escalated per Caltrans percentage)						Change Description Project Comments Funding Summary (Current & Prior Years)			
				Four Year Element						Local	State	Federal	
				22/23	23/24	24/25	25/26	26/27	27/28				
TUL16-500	In Tulare County: Grouped Projects for Bicycle and Pedestrian Facilities funded with Active Transportation Program (ATP) funds. (2022 RTP, Table A-10.2, page D-44)	PE								Carry Over			
ATP-SB1/ATP-SI 3.02	\$ 14,543,000	RW	780,000	9,336,000		4,427,000				***** Version 1 - 03/08/22 ***** Project data transferred from 2020 FTIP. ***** Version 11 - 07/12/2021 *****Amendment No. 7 (A-Mod). Adds two new			
Various Agencies	DFTIP Amend 0.00 21500000726	Const								Prior 307,000 120,000 353,000			
		Total	780,000	9,336,000		4,427,000				Current 3,156,000 9,268,000 1,339,000			

Tulare County Association of Governments 2023 Federal Transportation Improvement Program
San Joaquin Format (Highest Version)
Congestion Mitigation and Air Quality Program (Non-transit)

Route Postmile PIN Dist-EA Fund AQ Lead	Description Total Escalated Cost Status	Phase	Prior Years	Program Schedule (Construction costs escalated per Caltrans percentage)						Change Description Project Comments Funding Summary (Current & Prior Years)		
				Four Year Element						Local	State	Federal
				22/23	23/24	24/25	25/26	26/27	27/28			
TUL20-003 CMAQ/SHOPPA 5.01 Caltrans	In City of Porterville at intersection of State Route 190 and S. Plano Street; construct roundabout. (2022 RTP, Table A-16.2, page D-76) \$ 8,386,000 DFTIP Amend 0.00 21500000773	PE RW Const Total		1,518,000 1,118,000 2,636,000					5,750,000 5,750,000		Carry Over ***** Version 1 - 03/08/22 ***** Project data transferred from 2020 FTIP. ***** Version 1 - 10/08/2020 *****New 2021 FTIP Project. Prior Current 8,386,000	
TUL20-001 CMAQ/CITY 5.01 Dinuba, City of	In the City of Dinuba at the intersection of Alta Avenue and Kamm Avenue; construct new roundabout. (2022 RTP, Table A-16.2, page D-76) \$ 4,012,000 DFTIP Amend 0.00 21500000765	PE RW Const Total			4,012,000 4,012,000					Carry Over ***** Version 1 - 03/08/22 ***** Project data transferred from 2020 FTIP. ***** Version 1 - 10/07/20 *****Carryover from 2019 FTIP. Prior Current 2,212,000 1,800,000		
TUL20-004 CMAQ/SHOPPA 5.01 Porterville, City of	In City of Porterville at intersection of S. Plano Street and E. College Avenue; construct roundabout. (2022 RTP, Table A-16.2, page D-76) \$ 8,386,000 DFTIP Amend 0.00 21500000774	PE RW Const Total		1,518,000 1,118,000 2,636,000				5,750,000 5,750,000		Carry Over ***** Version 1 - 03/08/22 ***** Project data transferred from 2020 FTIP. ***** Version 1 - 10/08/2020 *****New 2021 FTIP project. Prior Current 8,386,000		
CA TUL21-001 CMAQ/REGSTX 5.01 Woodlake, City of	In the City of Woodlake at the intersection of State Route 245 and Cajon Avenue; construct new roundabout (2022 RTP, Table F-6.1, page E-14) \$ 4,551,000 DFTIP Amend 0.00 21500000782	PE RW Const Total	536,000 183,000 719,000		3,832,000 3,832,000					Carry Over ***** Version 1 - 03/08/22 ***** Project data transferred from 2020 FTIP. ***** Version 1 - 05/11/2021 *****Amendment No. 4 (Type 3). Adds new Prior 719,000 Current 832,000 3,000,000		

Tulare County Association of Governments 2023 Federal Transportation Improvement Program
San Joaquin Format (Highest Version)
Congestion Mitigation and Air Quality Program (Transit Projects)

Route Postmile PIN Dist-EA Fund AQ Lead	Description Total Escalated Cost Status	Phase	Prior Years	Program Schedule (Construction costs escalated per Caltrans percentage)						Change Description Project Comments Funding Summary (Current & Prior Years)		
				Four Year Element						Local	State	Federal
				22/23	23/24	24/25	25/26	26/27	27/28			
TUL21-000 CMAQ/REGSTX 5.02 Various Agencies	Various agencies throughout Tulare County. Projects are consistent with 40 CFR Part 93.126 Exempt Table 3 categories - Intersection Signalization Projects (2022 RTP, Table F-6.1, page E-14) \$ 2,095,000 DFTIP Amend 0.00 21500000781	PE RW Const Total		2,095,000							Carry Over ***** Version 1 - 03/08/22 ***** Project data transferred from 2020 FTIP. ***** Version 1 - 05/11/2021 *****Amendment No. 4 (Type 3). New group Prior Current 268,000 1,827,000	

Tulare County Association of Governments 2023 Federal Transportation Improvement Program

San Joaquin Format (Highest Version)

Federal Transit Administration Section 5339

Route Postmile PIN Dist-EA Fund AQ Lead	Description Total Escalated Cost Status	Phase	Prior Years	Program Schedule (Construction costs escalated per Caltrans percentage)						Change Description Project Comments Funding Summary (Current & Prior Years)		
				Four Year Element						Local	State	Federal
				22/23	23/24	24/25	25/26	26/27	27/28			
TUL16-205 5339/CMAQ/LTF, 2.10 Various Agencies	In Tulare County: Grouped Projects for Purchase of New Buses and Rail Cars to Replace Existing Vehicle or for Minor Expansions of the Fleet. (2022 RTP, Table F-4.1, page E-10) \$ 12,784,000 DFTIP Amend 0.00 21500000741	PE RW Const Total		4,768,000	3,976,000	2,020,000	2,020,000				Carry Over ***** Version 1 - 03/08/22 ***** Project data transferred from 2020 FTIP. ***** Version 16 - 05/10/2021 *****Amendment No. 3 (A-Mod). Makes Prior Current 7,436,000 5,348,000	

Tulare County Association of Governments 2023 Federal Transportation Improvement Program

San Joaquin Format (Highest Version)

Federal Transit Administration-Transit Operating Assistance

Route Postmile PIN Dist-EA Fund AQ Lead	Description Total Escalated Cost Status	Phase	Prior Years	Program Schedule (Construction costs escalated per Caltrans percentage)						Change Description Project Comments Funding Summary (Current & Prior Years)		
				Four Year Element						Local	State	Federal
				22/23	23/24	24/25	25/26	26/27	27/28			
TUL16-204 5307/CITY/5311/ 2.01 Various Agencies	In Tulare County: Grouped Projects for Operating Assistance to Transit Agencies. (2022 RTP, Table F-4.1, page E-10) \$ 62,000,000 DFTIP Amend 0.00 21500000727	PE RW Const Total								Carry Over		
				15,500,000	15,500,000	15,500,000	15,500,000			***** Version 1 - 03/08/22 ***** Project data transferred from 2020 FTIP. ***** Version 13 - 07/12/2021 ***** Amendment No. 7 (A-Mod). Adds one new		
				15,500,000	15,500,000	15,500,000	15,500,000			Prior Current 31,000,000 31,000,000		

Tulare County Association of Governments 2023 Federal Transportation Improvement Program

San Joaquin Format (Highest Version)

Highway Bridge Replacement / Rehabilitation Program

Route Postmile PIN Dist-EA Fund AQ Lead	Description Total Escalated Cost Status	Phase	Prior Years	Program Schedule (Construction costs escalated per Caltrans percentage)						Change Description Project Comments Funding Summary (Current & Prior Years)		
				Four Year Element						Local	State	Federal
				22/23	23/24	24/25	25/26	26/27	27/28			
TUL12-130 HBRR-L 0.00 Tulare County	In Tulare County: Bridge No. 46C0300, Ave. 108, Over Lakeland Canal, 0.5 miles east of SR-43; Replace 1 Lane Bridge with 2 Lane Bridge. (Toll Credits programmed for PE, RW,& CON) (2022 RTP, Table F-14.1, page E-21) \$ 520,000 DFTIP Amend 0.00 21500000595	PE RW Const Total	500,000 20,000 520,000							Carry Over ***** Version 1 - 03/08/22 ***** Project data transferred from 2020 FTIP. ***** Version 1 - 11/10/20 *****Carry over from 2019 FTIP. Project data transferred from Prior 520,000 Current		
TUL13-125 LF-AC/HBRR-L 0.00 Tulare County	In Tulare County: Bridge No. 46C0208, Ave. 364 Over Cottonwood Creek, 0.2 miles west of SR-245; Replace 1 Lane Bridge with 2 Lane Bridge. (Toll Credits programmed for PE, RW & CON) (2022 RTP, Table F-14.1, page E-21) \$ 2,759,000 DFTIP Amend 0.00 21500000619	PE RW Const Total	2,739,000 20,000 2,759,000							Carry Over ***** Version 1 - 03/08/22 ***** Project data transferred from 2020 FTIP. ***** Version 17 - 11/03/2021 *****Amendment No. 9 (A-Mod). Project Prior 2,759,000 Current		
TUL22-101 REGSTX 0.00 Tulare County	In the County of Tulare, near the City of Porterville; replace 2 lane bridge with a 4 lane bridge.(2022 RTP, Table F-14.1, page E-21) \$ 6,800,000 DFTIP Amend 0.00 21500000788	PE RW Const Total		800,000				500,000 5,500,000	***** Version 1 - 04/06/2022 *****New project for the 2023 FTIP.//gg Prior Current 6,800,000			
TUL11-120 HBRR-L/CO/LF- 1.10 Various Agencies	In Tulare County: Grouped Projects for Bridge Rehabilitation and Reconstruction-HBP Program (Using Toll Credits). (2022 RTP, Table F-14, page E-21) \$ 72,160,000 DFTIP Amend 0.00 21500000549	PE RW Const Total		25,051,000	2,380,000	814,000	2,274,000		41,641,000 41,641,000	Carry Over ***** Version 1 - 03/08/22 ***** Project data transferred from 2020 FTIP. ***** Version 32 - 01/19/2022 *****Amendment No. 11 (A-Mod) Request from Prior 2,825,000 22,226,000 Current 2,283,000 42,579,000		

Tulare County Association of Governments 2023 Federal Transportation Improvement Program
San Joaquin Format (Highest Version)
Highway Safety Improvement Program (HSIP)

Route Postmile PIN Dist-EA Fund AQ Lead	Description Total Escalated Cost Status	Phase	Prior Years	Program Schedule (Construction costs escalated per Caltrans percentage)						Change Description Project Comments Funding Summary (Current & Prior Years)			
				Four Year Element						Local	State	Federal	
				22/23	23/24	24/25	25/26	26/27	27/28				
TUL12-144	Grouped Proejcts for Safety Improvements - HSIP Program. Throughout Tulare County. (2022 RTP, Table F-14, page E-21)	PE								Carry Over			
CITY/HSIP 1.06	\$ 5,306,000	RW								***** Version 1 - 03/08/22 ***** Project data transferred from 2020 FTIP. ***** Version 22 - 04/18/2021 *****A-Mod - Makes changes to HSIP Grouped Projects per			
Various Agencies	DFTIP Amend 0.00 21500000615	Const	529,000	4,356,000	421,000					Prior		529,000	
		Total	529,000	4,356,000	421,000					Current	308,000		4,469,000

Tulare County Association of Governments 2023 Federal Transportation Improvement Program

San Joaquin Format (Highest Version)

Preliminary Engineering (PE) Only

Route Postmile PIN Dist-EA Fund AQ Lead	Description Total Escalated Cost Status	Phase	Prior Years	Program Schedule (Construction costs escalated per Caltrans percentage)						Change Description Project Comments Funding Summary (Current & Prior Years)		
				Four Year Element						Local	State	Federal
				22/23	23/24	24/25	25/26	26/27	27/28			
TUL18-000 CMAQ/REGSTX 4.05 Various Agencies	Grouped Projects for Engineering. Projects are consistent with 40 CFR Part 93.126 Exempt Tables 2 and Table 3 categories - Engineering to assess social, economic, and environmental effects of the proposed action or alternatives to that action. (2022) \$ 101,000 DFTIP Amend 0.00 21500000753	PE RW Const Total					101,000				Carry Over ***** Version 1 - 03/08/22 ***** Project data transferred from 2020 FTIP. ***** Version 7 - 11/03/2021 ***** Amendment No. 9 (A-Mod). Adds new Prior Current 100,000 1,000	

Tulare County Association of Governments 2023 Federal Transportation Improvement Program

San Joaquin Format (Highest Version)

State Highway Operations and Protection Program

Route Postmile PIN Dist-EA Fund AQ Lead	Description Total Escalated Cost Status	Phase	Prior Years	Program Schedule (Construction costs escalated per Caltrans percentage)						Change Description Project Comments Funding Summary (Current & Prior Years)		
				Four Year Element						Local	State	Federal
				22/23	23/24	24/25	25/26	26/27	27/28			
TUL12-170 SHOPPAC 1.06 Caltrans	In Tulare County: Grouped Projects for Safety Improvements-SHOPP Collision Reduction Program (Using Toll Credits). (2022 RTP Table F-2.1, page E-7). \$ 14,370,000 DFTIP Amend 0.00 21500000381	PE RW Const Total	4,600,000	3,470,000	6,300,000					Carry Over ***** Version 1 - 03/08/22 ***** Project data transferred from 2020 FTIP. ***** Version 23 - 10/20/2021 *****Amendment No. 8 (A-Mod). Adds Prior 4,600,000 Current 9,770,000		
TUL12-175 SHOPPAC 1.10 Caltrans	In Tulare County: Grouped Projects for Pavement Resurfacing and/or Rehabilitation-SHOPP Roadway Preservation (Using Toll Credits). (2022 RTP Table F-2.1, page E-7). \$ 119,292,000 DFTIP Amend 0.00 21500000501	PE RW Const Total	30,747,000	61,333,000	13,385,000	13,827,000			Carry Over ***** Version 1 - 03/08/22 ***** Project data transferred from 2020 FTIP. ***** Version 1 - 10/06/20 *****Carry over from 2018 FTIP. Project data transferred from Prior 30,747,000 Current 88,545,000			

Tulare County Association of Governments 2023 Federal Transportation Improvement Program

San Joaquin Format (Highest Version)

STIP / Regional Choice

Route Postmile PIN Dist-EA Fund AQ Lead	Description Total Escalated Cost Status	Phase	Prior Years	Program Schedule (Construction costs escalated per Caltrans percentage)						Change Description Project Comments Funding Summary (Current & Prior Years)		
				Four Year Element						Local	State	Federal
				22/23	23/24	24/25	25/26	26/27	27/28			
190 TUL18-102 06-0Q4321 REGSTX 5.04 Caltrans	Near Porterville: at the intersection of State Route 190 and Westwood Avenue; construct a roundabout and intersection improvements (2022 RTP, Table A-16.2, page D-76) \$ 8,960,000 DFTIP Amend 0.00 21500000759	PE RW Const Total	1,210,000 1,500,000 2,710,000	6,250,000						Carry Over ***** Version 1 - 03/08/22 ***** Project data transferred from 2020 FTIP. ***** DFTIP Version 1 - 10/20/2020*****Carryover from 2019 FTIP. Prior 2,710,000 Current 6,250,000		
198 10.5/12.0 TUL16-104 REGSTX 0.00 Caltrans	In Visalia: at intersection of State Route 198 and Lovers Lane; operational improvements. (2022 RTP, Table A-16.2, page D-76) \$ 20,595,000 DFTIP Amend 0.00 21500000745	PE RW Const Total	1,945,000	1,750,000	16,900,000				Carry Over ***** Version 1 - 03/08/22 ***** Project data transferred from 2020 FTIP. ***** DFTIP Version 1 - 11/12/2020*****Carryover from 2019 FTIP.//gg Prior 1,945,000 Current 18,650,000			
99 0.0/13.5 TUL22-100 06-0W791 BOND99/COVID: 0.00 Caltrans	Near Earlimart, from County Line Road to 0.7 miles north of Avenue 100 (Court Street) Overcrossing. Widen from 4-lanes to 6-lanes. Also in Kern County from 0.1 miles south of Cecil Avenue Overcrossing to County Line Road. Restripe the northbound \$ 34,900,000 DFTIP Amend 0.00 21500000787	PE RW Const Total	2,000,000	2,000,000	3,000,000 29,900,000				***** Version 1 - 03/08/2022 *****New Project for 2023 FTIP.//gg Prior Current 30,900,000 4,000,000			
99 25.2/30.6 06-48950 NO-FUND/STPL/ 0.00 Caltrans	In and near the City of Tulare, from south of Avenue 200 to just north of Prosperity Avenue. This project will relieve traffic congestion, improve goods movement and passenger travel along State Route 99 by widening in the median from 4 to 6 lanes. In \$ 243,720,000 DFTIP Amend 0.00 11500000285	PE RW Const Total	10,520,000		10,000,000 3,125,000	3,125,000	3,125,000	32,950,000	184,000,000 184,000,000	Carry Over ***** Version 1 - 05/03/22 ***** Project data transferred from 2022 STIP. ***** VERSION 6 - 04/05/2022 ***** ***** RTIP Version 1 - 01/25/2022 ***** Prior 2,070,000 8,450,000 Current 213,200,000 10,000,000		
TUL20-102 REGSTX 0.00 Tulare County	In City of Visalia, County of Tulare and City of Farmersville: on Avenue 280 (Caldwell Avenue) between Lovers Lane (in City of Visalia) and Virginia Avenue (in City of Farmersville); widen from an undivided two-lane road to a four-lane \$ 32,340,000 DFTIP Amend 0.00 21500000776	PE RW Const Total		1,870,000	4,986,000	25,484,000			Carry Over ***** Version 1 - 03/08/22 ***** Project data transferred from 2020 FTIP. ***** Version 1 - 11/22/2020 *****New project for 2021 FTIP. Prior Current 32,340,000			
TUL20-103 REGSTX 0.00 Tulare County	In City of Farmersville, County of Tulare, and City of Exeter: on Avenue 280 between Brundage Avenue (in City of Farmersville) and Elberta Road (in City of Exeter); widen from an undivided two-lane road to a four-lane divided road with median install \$ 25,674,000 DFTIP Amend 0.00 21500000777	PE RW Const Total		1,470,000	3,920,000		20,284,000		Carry Over ***** Version 1 - 03/08/22 ***** Project data transferred from 2020 FTIP. ***** Version 1 - 11/22/2020 *****New project for 2021 FTIP. Prior Current 25,674,000			

Tulare County Association of Governments 2023 Federal Transportation Improvement Program

San Joaquin Format (Highest Version)

STIP / Regional Choice

Route Postmile PIN Dist-EA Fund AQ Lead	Description Total Escalated Cost Status	Phase	Prior Years	Program Schedule (Construction costs escalated per Caltrans percentage)						Change Description Project Comments Funding Summary (Current & Prior Years)		
				Four Year Element						Local	State	Federal
				22/23	23/24	24/25	25/26	26/27	27/28			
65 29.7/30.3 06-43081 REGSTX/STIP-A 0.00 Tulare County Association of	In Tulare County on Route 65 from 0.1 mile south of Mariposa Street to Cedar Avenue. Construct roundabout. (2022 RTP, Table A-16.2, Page D-76) \$ 21,583,000 DFTIP Amend 0.00 11500000335	PE RW Const Total	1,883,000 1,883,000		2,500,000 5,300,000 7,800,000				11,900,000 11,900,000		Carry Over ***** Version 1 - 05/03/22 ***** Project data transferred from 2022 STIP. ***** VERSION 1 - 04/05/2022 ***** ***** RTIP Version 1 - 01/25/2022 ***** Prior 1,883,000 Current 15,300,000 4,400,000	
99 26.3/27.6 06-0U880 STIP-AC/REGST 0.00 Tulare County Association of	In Tulare County near the City of Tulare at Commercial Avenue and State Route 99 between 0.9 mile north of Avenue 200 OC and Paige Avenue OC; Construct new interchange and construct north and south bound auxiliary lanes. \$ 75,300,000 DFTIP Amend 0.00 11500000309	PE RW Const Total	9,000,000 13,500,000 52,800,000 75,300,000							Carry Over ***** Version 1 - 05/03/22 ***** Project data transferred from 2022 STIP. ***** VERSION 6 - 04/05/2022 ***** ***** RTIP Version 1 - 02/04/2022 ***** Prior 31,400,000 9,000,000 34,900,000 Current		
99 36.1/36.8 06-48740 CO/CMAQ/LF-AC 0.00 Tulare County Association of	On Route 99 in Tulare County between 0.3 miles south of the Avenue 280 (Caldwell Avenue) Overcrossing to 0.4 miles north of the Avenue 280 Overcrossing. Re-construct Interchange. (2022 RTP, Table A-16.1, Page D-75) \$ 79,000,000 DFTIP Amend 0.00 11500000310	PE RW Const Total	8,000,000 8,000,000	4,600,000	54,200,000	6,100,000	6,100,000			Carry Over ***** Version 1 - 05/03/22 ***** Project data transferred from 2022 STIP. ***** VERSION 3 - 04/05/2022 ***** ***** RTIP Version 1 - 01/25/2022 ***** Prior 3,000,000 5,000,000 Current 35,000,000 23,800,000		
TUL20-101 REGSTX/SB1 0.00 Visalia, City of	In City of Visalia: on Avenue 280 (Caldwell Avenue) between Santa Fe and Lovers Lane; widen from an undivided two-lane road to a four-lane divided road with median, install sidewalks, multi-use path, curb and gutters, street lights and traffic signals (2022 RTP) \$ 21,360,000 DFTIP Amend 0.00 21500000775	PE RW Const Total	1,250,000 3,347,000 4,597,000	16,763,000						Carry Over ***** Version 1 - 03/08/22 ***** Project data transferred from 2020 FTIP. ***** Version 2 - 04/18/2021 ***** A-Mod-Shifts \$1.155 M in Regional Measure RW funds Prior 3,210,000 1,387,000 Current 12,989,000 3,774,000		
TUL21-100 CITY/REGSTX 0.00 Visalia, City of	In the City of Visalia: on Riggin Avenue between Akers Street and Demaree Street; widen from undivided two-lane road to a four-lane divided road with median, install sidewalks, curb and gutters, streets lights, and traffic signals (2022 RTP, Table A-16.1) \$ 4,227,000 DFTIP Amend 0.00 21500000783	PE RW Const Total	300,000 300,000	3,927,000						Carry Over ***** Version 1 - 03/10/22 ***** Project data transferred from 2020 FTIP. ***** Version 2 - 02/15/2022 ***** *****Amendment No. 12 (A-Mod). Replace all Prior 300,000 Current 3,927,000		
TUL21-101 HIP/REGSTX/C1 0.00 Visalia, City of	In the City of Visalia: on Riggin Avenue between Mooney Boulevard and Conyer Street; widen the 0.72 miles of the arterial classified roadway from Mooney Boulevard to Conyer Street. The project will widen the existing undivided two-lane roadway \$ 8,038,000 DFTIP Amend 0.00 21500000784	PE RW Const Total	733,000 50,000 7,255,000 8,038,000							Carry Over ***** Version 1 - 03/08/22 ***** Project data transferred from 2020 FTIP. ***** Version 2 - 10/14/2021 ***** *****Amendment No. 8 (A-Mod). Request to Prior 5,553,000 2,485,000 Current		

Tulare County Association of Governments 2023 Federal Transportation Improvement Program

San Joaquin Format (Highest Version)

STIP / Regional Choice

Route Postmile PIN Dist-EA Fund AQ Lead	Description Total Escalated Cost Status	Phase	Prior Years	Program Schedule (Construction costs escalated per Caltrans percentage)						Change Description Project Comments Funding Summary (Current & Prior Years)		
				Four Year Element						Local	State	Federal
				22/23	23/24	24/25	25/26	26/27	27/28			
TUL21-102 REGSTX/CITY 0.00 Visalia, City of	In the City of Visalia: on Riggan Avenue between Kelsey Avenue and Shirk Avenue; widen from undivided two-lane road to a four-lane divided road with median, install sidewalks, curb and gutters, streets lights, and traffic signals (2022 RTP Table) \$ 11,250,000 DFTIP Amend 0.00 21500000785	PE	625,000							Carry Over ***** Version 1 - 03/08/22 ***** Project data transferred from 2020 FTIP. ***** Version 1 - 06/11/2021 *****2021 FTIP Amendment No. 5. Project split from TUL20-104. Prior 1,825,000 Current 9,425,000		
		RW	1,200,000									
		Const		9,425,000								
		Total	1,825,000	9,425,000								
CA TUL21-103 CITY 0.00 Visalia, City of	In the City of Visalia: on Riggan Avenue between Shirk Avenue and Akers Street; widen from undivided two-lane road to a four-lane divided road with median, install sidewalks, curb and gutters, streets lights, and traffic signals (2022 RTP Table) \$ 9,929,000 DFTIP Amend 0.00 21500000786	PE	1,076,000						Carry Over ***** Version 1 - 03/08/22 ***** Project data transferred from 2020 FTIP. ***** Version 1 - 06/11/2021 *****2021 FTIP Amendment No. 5. Project split from TUL20-104. Prior 1,076,000 Current 8,853,000			
		RW		480,000								
		Const			8,373,000							
		Total	1,076,000	480,000	8,373,000							

Tulare County Association of Governments 2023 Federal Transportation Improvement Program
San Joaquin Format (Highest Version)
Surface Transportation Block Grant Program (STBGP)

Route Postmile PIN Dist-EA Fund AQ Lead	Description Total Escalated Cost Status	Phase	Prior Years	Program Schedule (Construction costs escalated per Caltrans percentage)						Change Description Project Comments Funding Summary (Current & Prior Years)		
				Four Year Element						Local	State	Federal
				22/23	23/24	24/25	25/26	26/27	27/28			
TUL13-700 LF-AC/STPL/CIT 1.10 Various Agencies	In Tulare County Urbanized Area (UZA): Grouped Projects for Pavement Resurfacing and/or Rehabilitation - Surface Transportation Block Grant Program (STBGP) (Using Toll Credits). (2022 RTP, Table F-5.1. page E-13) \$ 10,712,000 DFTIP Amend 0.00 21500000624	PE RW Const Total		3,086,000	7,626,000						Carry Over ***** Version 1 - 03/08/22 ***** Project data transferred from 2020 FTIP. ***** Version 23 - 11/23/2021 *****Amendment No. 10 (A-Mod). Adds three Prior Current 1,540,000 6,086,000	

Appendix C – Grouped Project Listings

2020/21-2025/26 Highway Bridge Program

See the appropriate FTIP/FSTIP for current funding commitments. This listing provides the backup project information to support the lump sum amounts programmed in the FTIP.

3/22/2022, 7:51 AM

- Notes:
- 1) This is the FTIP lump sum “backup” list for HBP funded projects. Please see the Local Assistance web site for the most current listings:

http://www.dot.ca.gov/hq/LocalPrograms/hbrr99/HBP_FSTIP.html
 - 2) The purpose of this list is to show which projects being advanced by local agencies have met the eligibility requirements of the federal Highway Bridge Program and have been prioritized for funding by the Department in cooperation with local agencies for funding.
 - 3) Contractual funding levels are determined at time of federal authorization/obligation for given phase of work. For details see Chapter 3 of the Local Assistance Procedures Manual.
 - 4) For FTIP/FSTIP purposes, Federal Highway Bridge Program (HBP) funding constraint is managed by Caltrans.
 - 5) Prop 1B bond funds for the Local Seismic Safety Retrofit Program (LSSRP) used for matching federal funds are also managed by Caltrans.
 - 6) Financial constraint of LOCAL matching funds (including regional STIP funds) and LOCAL Advance Construction (AC) is the responsibility of the MPOs and their local agencies.
 - 7) Some projects show that they are programmed using State STP funds. These funds are HBP funds transferred to the STP for bridge work that is not ordinarily eligible for HBP funds. See the HB Program Guidelines for details. Do not confuse these STP funds with Regional STP funds.
 - 8) Corrections to this report should be addressed to the District Local Assistance Engineer:

<https://dot.ca.gov/programs/local-assistance/other-important-issues/local-assistance-contacts>

2020/21-2025/26 Highway Bridge Program

See the appropriate FTIP/FSTIP for current funding commitments. This listing provides the backup project information to support the lump sum amounts programmed in the FTIP.

District: 06 County: Tulare

Responsible Agency HBP-ID Project Description

Tulare County 3923 BRIDGE NO. 46C0004, CO RD D112, OVER NORTH BRANCH TULE RIVER, 1.1 MI N OF AVE 160. Replace 2 Lane Bridge with a 2 Lane Bridge 3/12/2012: Toll Credits programmed for PE, R/W, & CON.

Phase Summary:	Prior	20/21	21/22	22/23	23/24	24/25	25/26	Beyond	Total
PE	425,000	190,000							615,000
R/W	20,000								20,000
CON				2,380,000					2,380,000
Total	445,000	190,000		2,380,000					3,015,000

Fund Source Summary:	Prior	20/21	21/22	22/23	23/24	24/25	25/26	Beyond	Total
Fed \$	425,000	210,000		2,380,000					3,015,000
Local Match									
LSSRP Bond									
Local AC	20,000	-20,000							
Total	445,000	190,000		2,380,000					3,015,000

PE Summary:	Prior	20/21	21/22	22/23	23/24	24/25	25/26	Beyond	Total
Fed \$	425,000	190,000							615,000
Local Match									
LSSRP Bond									
Local AC									
Total	425,000	190,000							615,000

R/W Summary:	Prior	20/21	21/22	22/23	23/24	24/25	25/26	Beyond	Total
Fed \$		20,000							20,000
Local Match									
LSSRP Bond									
Local AC	20,000	-20,000							
Total	20,000								20,000

CON Summary:	Prior	20/21	21/22	22/23	23/24	24/25	25/26	Beyond	Total
Fed \$				2,380,000					2,380,000
Local Match									
LSSRP Bond									
Local AC									
Total				2,380,000					2,380,000

Project #: 5946(138)

2020/21-2025/26 Highway Bridge Program

See the appropriate FTIP/FSTIP for current funding commitments. This listing provides the backup project information to support the lump sum amounts programmed in the FTIP.

District: 06 County: Tulare

Responsible Agency HBP-ID Project Description

Tulare County 3927 BRIDGE NO. 46C0013, ROAD D112, OVER BATES SLOUGH, SOUTH OF AVE 196. Replace 2 Lane Bridge with 2 Lane Bridge

Phase Summary:	Prior	20/21	21/22	22/23	23/24	24/25	25/26	Beyond	Total
PE	500,000								500,000
R/W	20,000								20,000
CON						1,100,000			1,100,000
Total	520,000					1,100,000			1,620,000
Fund Source Summary:	Prior	20/21	21/22	22/23	23/24	24/25	25/26	Beyond	Total
Fed \$	460,356					973,830			1,434,186
Local Match	59,644					126,170			185,814
LSSRP Bond									
Local AC									
Total	520,000					1,100,000			1,620,000
PE Summary:	Prior	20/21	21/22	22/23	23/24	24/25	25/26	Beyond	Total
Fed \$	442,650								442,650
Local Match	57,350								57,350
LSSRP Bond									
Local AC									
Total	500,000								500,000
R/W Summary:	Prior	20/21	21/22	22/23	23/24	24/25	25/26	Beyond	Total
Fed \$	17,706								17,706
Local Match	2,294								2,294
LSSRP Bond									
Local AC									
Total	20,000								20,000
CON Summary:	Prior	20/21	21/22	22/23	23/24	24/25	25/26	Beyond	Total
Fed \$						973,830			973,830
Local Match						126,170			126,170
LSSRP Bond									
Local AC									
Total						1,100,000			1,100,000

Project #: 5946(139)

2020/21-2025/26 Highway Bridge Program

See the appropriate FTIP/FSTIP for current funding commitments. This listing provides the backup project information to support the lump sum amounts programmed in the FTIP.

District: 06 County: Tulare

Responsible Agency HBP-ID Project Description

Tulare County 4413 BRIDGE NO. 46C0025, AVE 152, OVER TULE RIVER, 1.25 MI W OF RD 224. Replace 2 Lane Bridge with 2 Lane Bridge,

Phase Summary:	Prior	20/21	21/22	22/23	23/24	24/25	25/26	Beyond	Total
PE			500,000					1,710,000	2,210,000
R/W								500,000	500,000
CON								15,617,000	15,617,000
Total			500,000					17,827,000	18,327,000

Fund Source Summary:	Prior	20/21	21/22	22/23	23/24	24/25	25/26	Beyond	Total
Fed \$					400,000			14,261,600	14,661,600
Local Match			100,000					3,565,400	3,665,400
LSSRP Bond									
Local AC			400,000		-400,000				
Total			500,000					17,827,000	18,327,000

PE Summary:	Prior	20/21	21/22	22/23	23/24	24/25	25/26	Beyond	Total
Fed \$					400,000			1,368,000	1,768,000
Local Match			100,000					342,000	442,000
LSSRP Bond									
Local AC			400,000		-400,000				
Total			500,000					1,710,000	2,210,000

R/W Summary:	Prior	20/21	21/22	22/23	23/24	24/25	25/26	Beyond	Total
Fed \$								400,000	400,000
Local Match			0					100,000	100,000
LSSRP Bond									
Local AC									
Total								500,000	500,000

CON Summary:	Prior	20/21	21/22	22/23	23/24	24/25	25/26	Beyond	Total
Fed \$								12,493,600	12,493,600
Local Match								3,123,400	3,123,400
LSSRP Bond									
Local AC									
Total								15,617,000	15,617,000

Project #:
5946(180)

2020/21-2025/26 Highway Bridge Program

See the appropriate FTIP/FSTIP for current funding commitments. This listing provides the backup project information to support the lump sum amounts programmed in the FTIP.

District: 06 County: Tulare

Responsible Agency HBP-ID Project Description

Tulare County 4429 BRIDGE NO. 46C0133, MOUNTAIN 109, OVER WHITE RIVER, 8 MI SE FOUNTAIN SPRINGS. Replace 1 Lane Bridge with 2 Lane Bridge.
No added lane capacity

Phase Summary:	Prior	20/21	21/22	22/23	23/24	24/25	25/26	Beyond	Total
PE	280,000	150,000				200,000			630,000
R/W					75,000				75,000
CON								3,360,000	3,360,000
Total	280,000	150,000			75,000	200,000		3,360,000	4,065,000
Fund Source Summary:	Prior	20/21	21/22	22/23	23/24	24/25	25/26	Beyond	Total
Fed \$	247,884	132,795			66,398	177,060		2,974,608	3,598,745
Local Match	32,116	17,205			8,603	22,940		385,392	466,256
LSSRP Bond									
Local AC									
Total	280,000	150,000			75,000	200,000		3,360,000	4,065,000
PE Summary:	Prior	20/21	21/22	22/23	23/24	24/25	25/26	Beyond	Total
Fed \$	247,884	132,795				177,060			557,739
Local Match	32,116	17,205				22,940			72,261
LSSRP Bond									
Local AC									
Total	280,000	150,000				200,000			630,000
R/W Summary:	Prior	20/21	21/22	22/23	23/24	24/25	25/26	Beyond	Total
Fed \$					66,398				66,398
Local Match					8,603				8,603
LSSRP Bond									
Local AC									
Total					75,000				75,000
CON Summary:	Prior	20/21	21/22	22/23	23/24	24/25	25/26	Beyond	Total
Fed \$								2,974,608	2,974,608
Local Match								385,392	385,392
LSSRP Bond									
Local AC									
Total								3,360,000	3,360,000

Project #:
5946(170)

2020/21-2025/26 Highway Bridge Program

See the appropriate FTIP/FSTIP for current funding commitments. This listing provides the backup project information to support the lump sum amounts programmed in the FTIP.

District: 06 County: Tulare

Responsible Agency HBP-ID Project Description

Tulare County 3600 BRIDGE NO. 46C0162, BALCH PARK ROAD, OVER RANCHERIA CREEK, 3.41 MI E OF BALCH PARK. Replace 1 Lane Bridge with 2 lane bridge. No added lane capacity. Toll Credits programmed for PE, R/W & CON.

Phase Summary:	Prior	20/21	21/22	22/23	23/24	24/25	25/26	Beyond	Total
PE	550,000	78,000							628,000
R/W	99,000	300							99,300
CON	2,588,000								2,588,000
Total	3,237,000	78,300							3,315,300

Fund Source Summary:	Prior	20/21	21/22	22/23	23/24	24/25	25/26	Beyond	Total
Fed \$	3,237,000	78,300							3,315,300
Local Match									
LSSRP Bond									
Local AC									
Total	3,237,000	78,300							3,315,300

PE Summary:	Prior	20/21	21/22	22/23	23/24	24/25	25/26	Beyond	Total
Fed \$	550,000	78,000							628,000
Local Match									
LSSRP Bond									
Local AC									
Total	550,000	78,000							628,000

R/W Summary:	Prior	20/21	21/22	22/23	23/24	24/25	25/26	Beyond	Total
Fed \$	99,000	300							99,300
Local Match									
LSSRP Bond									
Local AC									
Total	99,000	300							99,300

CON Summary:	Prior	20/21	21/22	22/23	23/24	24/25	25/26	Beyond	Total
Fed \$	2,588,000								2,588,000
Local Match									
LSSRP Bond									
Local AC									
Total	2,588,000								2,588,000

Project #:

5946(117)
5946(181)

2020/21-2025/26 Highway Bridge Program

See the appropriate FTIP/FSTIP for current funding commitments. This listing provides the backup project information to support the lump sum amounts programmed in the FTIP.

District: 06 County: Tulare

Responsible Agency HBP-ID Project Description

Tulare County 3596 BRIDGE NO. 46C0195, M348, OVER S FK KAWEAH RIVER, 11.10 MI SE OF M347. Replace 1 lane bridge with 1 lane bridge. Not capacity increasing project. Toll Credits programmed for PE, R/W & CON.

Phase Summary:	Prior	20/21	21/22	22/23	23/24	24/25	25/26	Beyond	Total
PE	628,000								628,000
R/W	20,000								20,000
CON	2,750,000	1,757,500							4,507,500
Total	3,398,000	1,757,500							5,155,500

Fund Source Summary:	Prior	20/21	21/22	22/23	23/24	24/25	25/26	Beyond	Total
Fed \$	648,000	4,507,500							5,155,500
Local Match									
LSSRP Bond									
Local AC	2,750,000	-2,750,000							
Total	3,398,000	1,757,500							5,155,500

PE Summary:	Prior	20/21	21/22	22/23	23/24	24/25	25/26	Beyond	Total
Fed \$	628,000								628,000
Local Match									
LSSRP Bond									
Local AC									
Total	628,000								628,000

R/W Summary:	Prior	20/21	21/22	22/23	23/24	24/25	25/26	Beyond	Total
Fed \$	20,000								20,000
Local Match									
LSSRP Bond									
Local AC									
Total	20,000								20,000

CON Summary:	Prior	20/21	21/22	22/23	23/24	24/25	25/26	Beyond	Total
Fed \$		4,507,500							4,507,500
Local Match									
LSSRP Bond									
Local AC	2,750,000	-2,750,000							
Total	2,750,000	1,757,500							4,507,500

Project #:

5946(114)
5946(189)

2020/21-2025/26 Highway Bridge Program

See the appropriate FTIP/FSTIP for current funding commitments. This listing provides the backup project information to support the lump sum amounts programmed in the FTIP.

District: 06 County: Tulare

Responsible Agency HBP-ID Project Description

Tulare County 3589 BRIDGE NO. 46C0196, M375A MNRL KING RD OVER EAST FORK KAWEAH RIVER, 6.68 MI E OF SR 198. Replace 2 Lane Bridge as 2 Lane Bridge Toll Credits programmed for PE, R/W & CON.

Phase Summary:	Prior	20/21	21/22	22/23	23/24	24/25	25/26	Beyond	Total
PE	1,560,000		499,900						2,059,900
R/W	20,000				75,000				95,000
CON								9,000,000	9,000,000
Total	1,580,000		499,900		75,000			9,000,000	11,154,900
Fund Source Summary:	Prior	20/21	21/22	22/23	23/24	24/25	25/26	Beyond	Total
Fed \$	1,580,000		499,900		75,000			9,000,000	11,154,900
Local Match									
LSSRP Bond									
Local AC									
Total	1,580,000		499,900		75,000			9,000,000	11,154,900
PE Summary:	Prior	20/21	21/22	22/23	23/24	24/25	25/26	Beyond	Total
Fed \$	1,560,000		499,900						2,059,900
Local Match									
LSSRP Bond									
Local AC									
Total	1,560,000		499,900						2,059,900
R/W Summary:	Prior	20/21	21/22	22/23	23/24	24/25	25/26	Beyond	Total
Fed \$	20,000				75,000				95,000
Local Match									
LSSRP Bond									
Local AC									
Total	20,000				75,000				95,000
CON Summary:	Prior	20/21	21/22	22/23	23/24	24/25	25/26	Beyond	Total
Fed \$								9,000,000	9,000,000
Local Match									
LSSRP Bond									
Local AC									
Total								9,000,000	9,000,000

Project #: 5946(106)

2020/21-2025/26 Highway Bridge Program

See the appropriate FTIP/FSTIP for current funding commitments. This listing provides the backup project information to support the lump sum amounts programmed in the FTIP.

District: 06 County: Tulare

Responsible Agency HBP-ID Project Description

Tulare County 3595 BRIDGE NO. 46C0219, AVE 424, OVER TRAVER CANAL, 0.25 MI EAST OF RD 64. Replace 2 lane bridge with 2 lane bridge. No added lane capacity 8/29/2010: Toll Credits programmed for PE, R/W & CON.

Phase Summary:	Prior	20/21	21/22	22/23	23/24	24/25	25/26	Beyond	Total
PE	604,000								604,000
R/W	100,000								100,000
CON		2,320,265							2,320,265
Total	704,000	2,320,265							3,024,265

Fund Source Summary:	Prior	20/21	21/22	22/23	23/24	24/25	25/26	Beyond	Total
Fed \$	704,000		2,320,265						3,024,265
Local Match									
LSSRP Bond									
Local AC		2,320,265	-2,320,265						
Total	704,000	2,320,265							3,024,265

PE Summary:	Prior	20/21	21/22	22/23	23/24	24/25	25/26	Beyond	Total
Fed \$	604,000								604,000
Local Match									
LSSRP Bond									
Local AC									
Total	604,000								604,000

R/W Summary:	Prior	20/21	21/22	22/23	23/24	24/25	25/26	Beyond	Total
Fed \$	100,000								100,000
Local Match									
LSSRP Bond									
Local AC									
Total	100,000								100,000

CON Summary:	Prior	20/21	21/22	22/23	23/24	24/25	25/26	Beyond	Total
Fed \$			2,320,265						2,320,265
Local Match									
LSSRP Bond									
Local AC		2,320,265	-2,320,265						
Total		2,320,265							2,320,265

Project #:
5946(112)

2020/21-2025/26 Highway Bridge Program

See the appropriate FTIP/FSTIP for current funding commitments. This listing provides the backup project information to support the lump sum amounts programmed in the FTIP.

District: 06 County: Tulare

Responsible Agency HBP-ID Project Description

Tulare County 3926 BRIDGE NO. 46C0263, AVENUE 174 OVER FRIANT-KERN CANAL, 0.3 MI WEST OF ROAD 232. Replace 2 Lane Bridge with 2 Lane Bridge
3/12/2012: Toll Credits programmed for PE, R/W, & CON.

Phase Summary:	Prior	20/21	21/22	22/23	23/24	24/25	25/26	Beyond	Total
PE	550,000	50,000							600,000
R/W		100,000			144,000				244,000
CON								3,412,500	3,412,500
Total	550,000	150,000			144,000			3,412,500	4,256,500
Fund Source Summary:	Prior	20/21	21/22	22/23	23/24	24/25	25/26	Beyond	Total
Fed \$	550,000	150,000			144,000			3,412,500	4,256,500
Local Match									
LSSRP Bond									
Local AC									
Total	550,000	150,000			144,000			3,412,500	4,256,500
PE Summary:	Prior	20/21	21/22	22/23	23/24	24/25	25/26	Beyond	Total
Fed \$	550,000	50,000							600,000
Local Match									
LSSRP Bond									
Local AC									
Total	550,000	50,000							600,000
R/W Summary:	Prior	20/21	21/22	22/23	23/24	24/25	25/26	Beyond	Total
Fed \$		100,000			144,000				244,000
Local Match									
LSSRP Bond									
Local AC									
Total		100,000			144,000				244,000
CON Summary:	Prior	20/21	21/22	22/23	23/24	24/25	25/26	Beyond	Total
Fed \$								3,412,500	3,412,500
Local Match									
LSSRP Bond									
Local AC									
Total								3,412,500	3,412,500

Project #:
5946(140)

2020/21-2025/26 Highway Bridge Program

See the appropriate FTIP/FSTIP for current funding commitments. This listing provides the backup project information to support the lump sum amounts programmed in the FTIP.

District: 06 County: Tulare

Responsible Agency HBP-ID Project Description

Tulare County 3931 BRIDGE NO. 46C0340, AVE 428, OVER SAND CREEK, 0.25 MI E OF SR 63. Replace 2 Lane Bridge with 2 Lane Bridge 3/12/2012: Toll Credits programmed for PE, R/W, & CON.

Phase Summary:	Prior	20/21	21/22	22/23	23/24	24/25	25/26	Beyond	Total
PE	580,000	25,000							605,000
R/W					20,000				20,000
CON								2,400,000	2,400,000
Total	580,000	25,000			20,000			2,400,000	3,025,000
Fund Source Summary:	Prior	20/21	21/22	22/23	23/24	24/25	25/26	Beyond	Total
Fed \$	580,000	25,000			20,000			2,400,000	3,025,000
Local Match									
LSSRP Bond									
Local AC									
Total	580,000	25,000			20,000			2,400,000	3,025,000
PE Summary:	Prior	20/21	21/22	22/23	23/24	24/25	25/26	Beyond	Total
Fed \$	580,000	25,000							605,000
Local Match									
LSSRP Bond									
Local AC									
Total	580,000	25,000							605,000
R/W Summary:	Prior	20/21	21/22	22/23	23/24	24/25	25/26	Beyond	Total
Fed \$					20,000				20,000
Local Match									
LSSRP Bond									
Local AC									
Total					20,000				20,000
CON Summary:	Prior	20/21	21/22	22/23	23/24	24/25	25/26	Beyond	Total
Fed \$								2,400,000	2,400,000
Local Match									
LSSRP Bond									
Local AC									
Total								2,400,000	2,400,000

Project #: 5946(142)

2020/21-2025/26 Highway Bridge Program

See the appropriate FTIP/FSTIP for current funding commitments. This listing provides the backup project information to support the lump sum amounts programmed in the FTIP.

District: 06 County: Tulare

Responsible Agency HBP-ID Project Description

Tulare County 3592 BRIDGE NO. 46C0345, AVE 392 OVER SAND CREEK, 0.4 MI E OF ROAD 108. Replace 2 Lane Bridge with 2 Lane Bridge 8/29/2010: Toll Credits programmed for PE & CON. 4/22/2012: Toll credits used for R/W.

Phase Summary:	Prior	20/21	21/22	22/23	23/24	24/25	25/26	Beyond	Total
PE	495,000								495,000
R/W	20,000								20,000
CON	1,979,668								1,979,668
Total	2,494,668								2,494,668
Fund Source Summary:	Prior	20/21	21/22	22/23	23/24	24/25	25/26	Beyond	Total
Fed \$	515,000	1,979,668							2,494,668
Local Match									
LSSRP Bond									
Local AC	1,979,668	-1,979,668							
Total	2,494,668								2,494,668
PE Summary:	Prior	20/21	21/22	22/23	23/24	24/25	25/26	Beyond	Total
Fed \$	495,000								495,000
Local Match									
LSSRP Bond									
Local AC									
Total	495,000								495,000
R/W Summary:	Prior	20/21	21/22	22/23	23/24	24/25	25/26	Beyond	Total
Fed \$	20,000								20,000
Local Match									
LSSRP Bond									
Local AC									
Total	20,000								20,000
CON Summary:	Prior	20/21	21/22	22/23	23/24	24/25	25/26	Beyond	Total
Fed \$		1,979,668							1,979,668
Local Match									
LSSRP Bond									
Local AC	1,979,668	-1,979,668							
Total	1,979,668								1,979,668

Project #: 5946(109)

2020/21-2025/26 Highway Bridge Program

See the appropriate FTIP/FSTIP for current funding commitments. This listing provides the backup project information to support the lump sum amounts programmed in the FTIP.

District: 06 County: Tulare

Responsible Agency HBP-ID Project Description

Tulare County 3929 BRIDGE NO. 46C0353, AVENUE 376, OVER TRAVER CANAL, 0.25 MI E OF ROAD 40. Replace 2 Lane Bridge with 2 Lane Bridge
3/12/2012: Toll Credits programmed for PE, R/W, & CON.

Phase Summary:	Prior	20/21	21/22	22/23	23/24	24/25	25/26	Beyond	Total
PE	500,000								500,000
R/W					100,000				100,000
CON								1,100,000	1,100,000
Total	500,000				100,000			1,100,000	1,700,000
Fund Source Summary:	Prior	20/21	21/22	22/23	23/24	24/25	25/26	Beyond	Total
Fed \$	500,000				100,000			1,100,000	1,700,000
Local Match									
LSSRP Bond									
Local AC									
Total	500,000				100,000			1,100,000	1,700,000
PE Summary:	Prior	20/21	21/22	22/23	23/24	24/25	25/26	Beyond	Total
Fed \$	500,000								500,000
Local Match									
LSSRP Bond									
Local AC									
Total	500,000								500,000
R/W Summary:	Prior	20/21	21/22	22/23	23/24	24/25	25/26	Beyond	Total
Fed \$					100,000				100,000
Local Match									
LSSRP Bond									
Local AC									
Total					100,000				100,000
CON Summary:	Prior	20/21	21/22	22/23	23/24	24/25	25/26	Beyond	Total
Fed \$								1,100,000	1,100,000
Local Match									
LSSRP Bond									
Local AC									
Total								1,100,000	1,100,000

Project #: 5946(143)

2020/21-2025/26 Highway Bridge Program

See the appropriate FTIP/FSTIP for current funding commitments. This listing provides the backup project information to support the lump sum amounts programmed in the FTIP.

District: 06 County: Tulare

Responsible Agency HBP-ID Project Description

Tulare County 3597 BRIDGE NO. 46C0360, ROAD 204, OVER WUTCHUMNA DITCH, 0.1 MI S OF AVE 336. Replace 2 Lane Bridge with 2 Lane Bridge. No added lane capacity. Toll Credits programmed for PE, R/W & CON.

Phase Summary:	Prior	20/21	21/22	22/23	23/24	24/25	25/26	Beyond	Total
PE	500,000								500,000
R/W	100,000								100,000
CON		1,068,716	200,000						1,268,716
Total	600,000	1,068,716	200,000						1,868,716

Fund Source Summary:	Prior	20/21	21/22	22/23	23/24	24/25	25/26	Beyond	Total
Fed \$	600,000		1,268,716						1,868,716
Local Match									
LSSRP Bond									
Local AC		1,068,716	-1,068,716						
Total	600,000	1,068,716	200,000						1,868,716

PE Summary:	Prior	20/21	21/22	22/23	23/24	24/25	25/26	Beyond	Total
Fed \$	500,000								500,000
Local Match									
LSSRP Bond									
Local AC									
Total	500,000								500,000

R/W Summary:	Prior	20/21	21/22	22/23	23/24	24/25	25/26	Beyond	Total
Fed \$	100,000								100,000
Local Match									
LSSRP Bond									
Local AC									
Total	100,000								100,000

CON Summary:	Prior	20/21	21/22	22/23	23/24	24/25	25/26	Beyond	Total
Fed \$			1,268,716						1,268,716
Local Match									
LSSRP Bond									
Local AC		1,068,716	-1,068,716						
Total		1,068,716	200,000						1,268,716

Project #:

5946(115)
5946(199)

2020/21-2025/26 Highway Bridge Program

See the appropriate FTIP/FSTIP for current funding commitments. This listing provides the backup project information to support the lump sum amounts programmed in the FTIP.

District: 06 County: Tulare

Responsible Agency HBP-ID Project Description

Tulare County 4421 BRIDGE NO. PM00148, Bridge Preventive Maintenance Program (BPMP) various bridges in the County of Tulare. Plan List for Group 1. See Caltrans Local Assistance HBP website for backup list of projects.

Phase Summary:	Prior	20/21	21/22	22/23	23/24	24/25	25/26	Beyond	Total
PE	238,200								238,200
R/W									
CON			985,800						985,800
Total	238,200		985,800						1,224,000

Fund Source Summary:	Prior	20/21	21/22	22/23	23/24	24/25	25/26	Beyond	Total
Fed \$	210,878							872,729	1,083,607
Local Match	27,322		113,071						140,393
LSSRP Bond									
Local AC			872,729					-872,729	
Total	238,200		985,800						1,224,000

PE Summary:	Prior	20/21	21/22	22/23	23/24	24/25	25/26	Beyond	Total
Fed \$	210,878								210,878
Local Match	27,322								27,322
LSSRP Bond									
Local AC									
Total	238,200								238,200

CON Summary:	Prior	20/21	21/22	22/23	23/24	24/25	25/26	Beyond	Total
Fed \$								872,729	872,729
Local Match			113,071						113,071
LSSRP Bond									
Local AC			872,729					-872,729	
Total			985,800						985,800

Project #: 5946(168)

2020/21-2025/26 Highway Bridge Program

See the appropriate FTIP/FSTIP for current funding commitments. This listing provides the backup project information to support the lump sum amounts programmed in the FTIP.

District: 06 County: Tulare

Responsible Agency HBP-ID Project Description

Tulare County 4422 BRIDGE NO. PM00149, Bridge Preventive Maintenance Program (BPMP) various bridges in the County of Tulare. Plan List for Group 5. See Caltrans Local Assistance HBP website for backup list of projects.

Phase Summary:	Prior	20/21	21/22	22/23	23/24	24/25	25/26	Beyond	Total
PE	898,700								898,700
R/W									
CON								3,668,300	3,668,300
Total	898,700							3,668,300	4,567,000

Fund Source Summary:	Prior	20/21	21/22	22/23	23/24	24/25	25/26	Beyond	Total
Fed \$	795,619							3,247,546	4,043,165
Local Match	103,081							420,754	523,835
LSSRP Bond									
Local AC									
Total	898,700							3,668,300	4,567,000

PE Summary:	Prior	20/21	21/22	22/23	23/24	24/25	25/26	Beyond	Total
Fed \$	795,619								795,619
Local Match	103,081								103,081
LSSRP Bond									
Local AC									
Total	898,700								898,700

CON Summary:	Prior	20/21	21/22	22/23	23/24	24/25	25/26	Beyond	Total
Fed \$								3,247,546	3,247,546
Local Match								420,754	420,754
LSSRP Bond									
Local AC									
Total								3,668,300	3,668,300

Project #: 5946(169)

2020/21-2025/26 Highway Bridge Program

See the appropriate FTIP/FSTIP for current funding commitments. This listing provides the backup project information to support the lump sum amounts programmed in the FTIP.

District: 06 County: Tulare

Responsible Agency HBP-ID Project Description

MPO Summary: Tulare County Association Of Governments

Number of Projects: 15

Totals:

	Prior	20/21	21/22	22/23	23/24	24/25	25/26	Beyond	Total
Fed \$	11,053,738	7,083,263	4,088,881	2,380,000	805,398	1,150,890		37,268,983	63,831,152
Local Match	222,162	17,205	213,071		8,603	149,110		4,371,546	4,981,697
LSSRP Bond									
Local AC	4,749,668	-1,360,687	-2,116,252		-400,000			-872,729	
Total for all Phases	16,025,568	5,739,781	2,185,700	2,380,000	414,000	1,300,000		40,767,800	68,812,849

Tulare County Association of Governments
2023 FTIP

Grouped Projects for Purchase of
New Buses and Rail Cars to
Replace Existing Vehicles or for
Minor Expansions of the Fleet (using toll credits)

(CTIPS ID: 215-0000-0741)

Agency	Project Title	Project Description	Fund Source	Funds Programmed "Prior"	Amounts in \$1,000's				Total Project Cost
					22/23	23/24	24/25	25/26	
Visalia	Visalia City Transit Bus Purchases	Purchase of four (4) new buses to replace existing Visalia City Transit buses	FTA 5339	\$0	\$500	\$500	\$500	\$500	\$4,400
			Local City Funds	\$0	\$600	\$600	\$600	\$600	
TCRTA	TCRTA Transit Bus Purchases	Purchase of new buses to replace existing TCRTA buses	FTA 5339	\$0	\$170	\$170	\$170	\$170	\$3,680
			Local Transportation Funds	\$0	\$750	\$750	\$750	\$750	
Porterville	Porterville City Transit Bus Purchases	Purchase of three (3) new electric buses for Porterville City Transit	CMAQ	\$0	\$1,185	\$0	\$0	\$0	\$2,748
			Local City Funds	\$0	\$1,563	\$0	\$0	\$0	
Visalia	Visalia City Transit Bus Purchases	Purchase 2 Electric Buses for Visalia City Transit	CMAQ	\$0	\$0	\$1,483	\$0	\$0	\$1,956
			Regional Measure	\$0	\$0	\$473	\$0	\$0	
<i>2023 FTIP Adoption</i>									

Programming Amounts (in \$1,000's)				
Fund Type	22/23	23/24	24/25	25/26
FTA 5339	\$670	\$670	\$670	\$670
CMAQ	\$1,185	\$1,483	\$0	\$0
Local Transportation Funds	\$750	\$750	\$750	\$750
Local City Funds	\$2,163	\$600	\$600	\$600
Regional Measure	\$0	\$473	\$0	\$0
TOTALS	\$4,768	\$3,976	\$2,020	\$2,020

Projects are consistent with 40 CFR Part 93.126 Exempt Tables 2 and Table 3 categories - Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet.

Tulare County Association of Governments (TCAG)
2023 FTIP

Grouped Projects for Pavement Resurfacing and/or Rehabilitation-
Surface Transportation Block Grant Program (STBGP)
Using Toll Credits

(CTIPS ID: 215-0000-0624)

Agency	Project Title	Project Description	Fund Source	Phase	Amounts in \$1,000's					Total Project Cost
					Funds Programmed "Prior"	22/23	23/24	24/25	25/26	
Tulare	K Street Reconstruction	In the City of Tulare, from the south side of the intersection of K Street and Paige Avenue to the south side of the intersection of K Street and Olsen Avenue, as well as the Blackstone Avenue cul-de-sac on the east side of K Street; reconstruct roadway.	STBGP	PE	\$0	\$0	\$220	\$0	\$0	\$7,626
				ROW	\$0	\$0	\$0	\$0		
				CON	\$0	\$0	\$2,780	\$0	\$0	
			Local City Funds	PE	\$0	\$0	\$309	\$0	\$0	
				ROW	\$0	\$0	\$0	\$0	\$0	
CON	\$0	\$0	\$4,317	\$0	\$0					
Visalia	Tulare Avenue Rehabilitation	In the City of Visalia, on Tulare Avenue from Demaree Avenue to Roeben Street; rehabilitate roadway	STBGP	PE	\$0	\$0	\$0	\$0	\$0	\$3,286
				ROW	\$0	\$0	\$0	\$0	\$0	
				CON	\$0	\$3,086	\$0	\$0	\$0	
			Local City Funds	PE	\$0	\$0	\$0	\$0	\$0	
				ROW	\$0	\$0	\$0	\$0	\$0	
				CON	\$200	\$0	\$0	\$0	\$0	
			Local AC	PE	\$0	\$0	\$0	\$0	\$0	
				ROW	\$0	\$0	\$0	\$0	\$0	
CON	\$3,086	(\$3,086)	\$0	\$0	\$0					
2023 FTIP Adoption										

Programming Amounts (in \$1,000's)				
Fund Type	22/23	23/24	24/25	25/26
STBGP	\$3,086	\$3,000	\$0	\$0
Local City Funds	\$0	\$4,626	\$0	\$0
Local AC	-\$3,086	\$0	\$0	\$0
TOTALS	\$0	\$7,626	\$0	\$0

Tulare County Association of Governments (TCAG)
2023 FTIP

Grouped Projects for Pavement Resurfacing and/or Rehabilitation -
SHOPP Roadway Preservation Program

(CTIPS ID: 215-0000-0501)

						(Amounts in \$1,000's)			
Route	Post Miles	Location/Description	EA	PPNO	FY	PE	RW	CON	Project Cost
216	0.00/2.6	In and near Visalia, from Route 198 to east of North McAuliff Street. Rehabilitate roadway by replacing distressed asphalt, provide non-motorized transportation facilities and bring Americans with Disabilities Act (ADA) facilities to current standards.	OW900	6696	Prior	\$4,400	\$700	\$0	\$26,300
					22/23	\$0	\$1,500	\$19,700	
245	0.0/33.0	Near Visalia, from Route 198 to Fresno County line at various locations. Rehabilitate drainage systems.	0X070	6959	Prior	\$2,405	\$0	\$0	\$18,978
					22/23	\$1,651	\$1,095	\$0	
					24/25	\$0	\$186	\$13,641	
99	0.0/13.5	Near Earlimart, from County line Road Overcrossing to 0.7 mile north of Court Avenue Overcrossing. Rehabilitate roadway, construct median concrete barrier, replace signs, rehabilitate drainage systems, upgrade Transportation Management System (TMS) elements, and replace signs. <i>(G13 Contingency)*</i>	OW790	6963	Prior	\$3,360	\$0	\$0	\$74,335
					22/23	\$4,450	\$400	\$0	
					23/24	\$0	\$225	\$65,900	

Tulare County Association of Governments (TCAG)
2023 FTIP

Grouped Projects for Pavement Resurfacing and/or Rehabilitation -
SHOPP Roadway Preservation Program

(CTIPS ID: 215-0000-0501)

99	27.6/30.6	In the city of Tulare, from Paige Avenue to Prosperity Avenue Overcrossing. Rehabilitate roadway, upgrade lighting and Transportation Management System (TMS) elements, replace signs, rehabilitate drainage systems, and enhance highway worker safety. <i>(G13 Contingency)*</i>	0W910	6944	Prior	\$4,300	\$90	\$0	\$37,390
					23/24	\$0	\$500	\$32,500	
99	20.2/R53.9	In and near the city of Tulare, from 0.7 mile north of Avenue 152 Overcrossing to Fresno County line (PM 20.2/R53.939) at various locations. Rehabilitate drainage systems.	0X250	6967	Prior	\$2,350	\$0	\$0	\$17,970
					22/23	\$2,350	\$610	\$0	
					23/24	\$0	\$150	\$12,510	
198	0.00/44.0	In Tulare County, from Kings County line to east of Sequoia National Park Boundary at various locations. Rehabilitate drainage systems.	0X260	7015	Prior	\$6,813	\$1,759	\$0	\$23,484
					22/23	\$0	\$337	\$14,575	

Tulare County Association of Governments (TCAG)
2023 FTIP

Grouped Projects for Pavement Resurfacing and/or Rehabilitation -
SHOPP Roadway Preservation Program

(CTIPS ID: 215-0000-0501)

63	5.8/L7.97	In Visalia, from south of Caldwell Avenue to Route 198. Rehabilitate pavement, upgrade Transportation Management System (TMS) elements, replace signs, and upgrade facilities to Americans with Disabilities Act (ADA) standards.	0X700	7008	Prior	\$3,570	\$1,000	\$0	\$19,235
					22/23	\$0	\$365	\$14,300	
2023 FTIP Adoption									

Programming Amounts (in \$1,000's)				
Fund Type	22/23	23/24	24/25	25/26
SHOPP AC	\$61,333	\$13,385	\$13,827	\$0
TOTALS	\$61,333	\$13,385	\$13,827	\$0

Projects are consistent with 40 CFR Part 93.126 Exempt Tables 2 categories - Pavement resurfacing and/or rehabilitation, Emergency relief (23 U.S.C. 125), Widening narrow pavements or reconstructing bridges (no additional travel lanes)

Tulare County Association of Governments (TCAG)
2023 FTIP

Grouped Projects for Safety Improvements - HSIP Program

(CTIPS ID: 215-0000-0615)

Unique Project ID	HR3 Eligibility*	Agency	Project Location	Description of Work	Fund Type	Programming Amounts					Total Project Cost	
						Prior Year	FY 22/23	FY 23/24	FY 24/25	FY 25/26		Future Year
H9-06-005	No	Dinuba	Various locations along Alta Avenue, Crawford Avenue, El Monte Way, Saginaw Avenue, Kamm Avenue, Kern Street, Nebraska Avenue, Englehart Avenue, Surabian Drive, and Sequoia Drive.	Install flush median, edgeline and centerline, and Class II and Class III bicycle facilities.	HSIP	\$279,000	\$0	\$1,325,070	\$0	\$0	\$0	\$1,912,300
					Local City Funds	\$0	\$0	\$308,230	\$0	\$0	\$0	
H9-06-017	No	Tulare County	The intersection of Avenue 144 and Road 96 (Tipton).	Convert intersection to roundabout.	HSIP	\$250,000	\$0	\$2,722,800	\$0	\$0	\$0	\$2,972,800
H9-06-020	No	Tulare County	Piedra Drive (D179) between Avenue 376 and Road 184.	Upgrade Existing Guardrail System.	HSIP	\$0	\$0	\$0	\$421,200	\$0	\$0	\$421,200
<i>2023 FTIP Adoption</i>												

Programming Amounts in 1,000's				
Fund Type	22/23	23/24	24/25	25/26
HSIP	\$0	\$4,048	\$421	\$0
City Funds	\$0	\$308	\$0	\$0
Totals	\$0	\$4,356	\$421	\$0

Projects are consistent with 40 CFR Part 93.126 Exempt Tables 2 and Table 3 categories - Railroad/highway crossing, Safer non-Federal-aid system roads, Shoulder improvements, traffic control devices and operating assistance other than signalization projects, intersection signalization projects at individual intersections, Pavement marking demonstration, Truck climbing lanes outside the urbanized area, Lighting improvements, Emergency truck pullovers

Tulare County Association of Governments (TCAG)
2023 FTIP

Grouped Projects for Operating Assistance
to Transit Agencies

(CTIPS ID: 215-0000-0727)

				Amounts in \$1,000's					
Agency	Project Title	Project Description	Fund Source	Funds Programmed "Prior"	FY 22/23	FY 23/24	FY 24/25	FY 25/26	Total Project Cost
TCRTA	Operating Assistance	Transit operating assistance for Tulare County Regional Transit Agency using FTA 5307	FTA 5307	\$0	\$3,500	\$3,500	\$3,500	\$3,500	\$28,000
			Local Transportation Funds	\$0	\$3,500	\$3,500	\$3,500	\$3,500	
Visalia	Visalia City Transit Operating Assistance	Transit operating assistance for Visalia City Transit using FTA 5307	FTA 5307	\$0	\$3,000	\$3,000	\$3,000	\$3,000	\$24,000
			Local City Funds	\$0	\$3,000	\$3,000	\$3,000	\$3,000	
TCRTA	Operating Assistance	Transit operating assistance for Tulare County Regional Transit Agency using FTA 5311	FTA 5311	\$0	\$1,250	\$1,250	\$1,250	\$1,250	\$10,000
			Local Transportation Funds	\$0	\$1,250	\$1,250	\$1,250	\$1,250	
<i>2023 FTIP Adoption</i>									

Programming Amounts (in \$1,000's)				
Fund Type	22/23	23/24	24/25	25/26
FTA 5307	\$6,500	\$6,500	\$6,500	\$6,500
FTA 5311	\$1,250	\$1,250	\$1,250	\$1,250
Local Transportation Funds	\$4,750	\$4,750	\$4,750	\$4,750
Local City Funds	\$3,000	\$3,000	\$3,000	\$3,000
TOTALS	\$15,500	\$15,500	\$15,500	\$15,500

Projects are consistent with 40 CFR Part 93.126 Exempt Tables 2 and Table 3 categories - Operating assistance to transit agencies.

Tulare County Association of Governments (TCAG)
2023 FTIP

Grouped Projects for Engineering

(CTIPS ID: 215-0000-0753)

				Amounts in \$1,000's					
Agency	Project Title	Project Description	Fund Type	Funds Programmed "Prior"	22/23	23/24	24/25	25/26	Total
Visalia	Goshen-Visalia Corridor Improvement Project	In the City of Visalia, along Goshen Avenue alignment between Camp Drive and Giddings Street; reconstruction of a 6 mile Class I multi-use trail	CMAQ	\$0	\$0	\$0	\$0	\$1	\$101
			Regional Measure	\$0	\$0	\$0	\$0	\$100	
<i>2023 FTIP Adoption</i>									

Note: The amounts shown above are for PA&ED and PS&E only.

Programming Amounts (in \$1,000's)				
Fund Type	22/23	23/24	24/25	25/26
CMAQ	\$0	\$0	\$0	\$1
Regional Measure	\$0	\$0	\$0	\$100
TOTALS	\$0	\$0	\$0	\$101

Tulare County Association of Governments (TCAG)
2023 FTIP

Grouped Projects for Bicycle and Pedestrian Facilities
funded with Active Transportation Program (ATP) funds
(Using Toll Credits)

(CTIPS ID: 215-0000-0726)

Agency	Project Title	Project Description	Cycle/ATP Component	Fund Source	Amounts in \$1,000's						Total Project Cost
					Funds Programmed in Prior Years	FFY 22/23	FFY 23/24	FFY 24/25	FFY 25/26	Future Years	
Tulare County	Road 160 Sidewalk Improvements, Ivanhoe	In community of Ivanhoe: on Road 160 between Avenue 328 and Avenue 332; construct curb, gutter, sidewalk, ADA ramps, drive approaches, asphalt concrete paveouts, and drainage improvements.	4/MPO	ATP (Fed)	\$263	\$1,025	\$0	\$0	\$0	\$0	\$1,575
				LTF	\$287	\$0	\$0	\$0	\$0	\$0	
Porterville	Butterfield Stage Corridor (W. North Grand Avenue to College Avenue)	In the City of Porterville, on the Butterfield Stage Corridor alignment between W. North Grand Avenue and College Avenue; development of an active transportation corridor (approximately 3.9 miles in length) to include solar lighting, water stations, wayfinding, benches, controlled lighted crossing systems.	5/Statewide	ATP (SB1)	\$0	\$7,100	\$0	\$0	\$0	\$0	\$7,750
				LTF	\$0	\$650	\$0	\$0	\$0	\$0	
Caltrans	Ivanhoe Safe Routes to School	In Tulare County and the community of Ivanhoe from Avenue 327 to just north of the State Route 216 and Avenue 328 intersection; construction of pedestrian and bicycle improvements including sidewalks, a shared-use path, railroad crossings, bicycle amenities, and transit facilities.	5/MPO	ATP (SHA)	\$120	\$181	\$0	\$769	\$0	\$0	\$1,788
				SHOPP Minor	\$90	\$0	\$0	\$314	\$0	\$0	
				Regional Measure	\$0	\$0	\$0	\$314	\$0	\$0	

Tulare County Association of Governments (TCAG)
2023 FTIP

Grouped Projects for Bicycle and Pedestrian Facilities
funded with Active Transportation Program (ATP) funds
(Using Toll Credits)

(CTIPS ID: 215-0000-0726)

Agency	Project Title	Project Description	Cycle/ATP Component	Fund Source	Funds Programmed in Prior Years	FFY 22/23	FFY 23/24	FFY 24/25	FFY 25/26	Future Years	Total Project Cost
Tulare County	Tipton Sidewalk Improvements Project	In the community of Tipton, on Evans Road between Avenue 152 and Lerda Avenue, and along Woods Avenue between Thompson Road and Newman Road; construction of curb & gutter, sidewalk, curb ramps, drive approaches, asphalt concrete paveouts, crossing-surface improvements, and pedestrian related drainage improvements.	5/MPO	ATP (SB1)	\$0	\$0	\$0	\$1,218	\$0	\$0	\$3,430
				Local County Funds	\$20	\$380	\$0	\$1,812	\$0	\$0	
<i>2023 FTIP Adoption</i>											

Fund Type Abbreviations

SB1= Senate Bill 1 - Road Maintenance and Rehabilitation Account (State Funds)

SHA= State Highway Account (State Funds)

Fed = Federal Funds

Programming Amounts (in \$1,000's)				
Fund Type	22/23	23/24	24/25	25/26
ATP (SB1)	\$7,100	\$0	\$1,218	\$0
ATP (SHA)	\$181	\$0	\$769	\$0
ATP (Fed)	\$1,025	\$0	\$0	\$0
Regional Measure	\$0	\$0	\$314	\$0
LTF	\$650	\$0	\$0	\$0
Local County Funds	\$380	\$0	\$1,812	\$0
SHOPP Minor	\$0	\$0	\$314	\$0
TOTALS	\$9,336	\$0	\$4,427	\$0

Tulare County Association of Governments (TCAG)
2023 FTIP

Grouped Projects for Intersection Signalization

(CTIPS ID: 215-0000-0781)

				Amounts in \$1,000's					
Agency	Project Title	Project Description	Fund Source	Funds Programmed "Prior"	FY 22/23	FY 23/24	FY 24/25	FY 25/26	Total Project Cost
City of Visalia	City of Visalia Traffic Signal Interconnect Project	In the City of Visalia, on Houston Avenue between Demaree Street and Giddings Street, on Demaree Street between Campus Avenue and Caldwell Avenue, and on Ben Maddox Way between Goshen Avenue and St. John's Parkway; install fiber optic cable within existing traffic signal conduit.	CMAQ	\$0	\$1,097	\$0	\$0	\$0	\$1,265
			Regional Measure	\$0	\$168	\$0	\$0	\$0	
City of Visalia	Burke Street and St. John's Parkway Traffic Signal	At the intersection of Burke Street and St. John's Parkway; installation of traffic signal and connection to signal interconnect network at Ben Maddox Way and St. John's Parkway	CMAQ	\$0	\$660	\$0	\$0	\$0	\$750
			Regional Measure	\$0	\$90	\$0	\$0	\$0	
City of Visalia	Akers Street Traffic Signal Interconnect Plan	Preparation and implementation of traffic signal coordination plans for the signalized intersections of Akers and Hillsdale and Akers and Cypress to operate in conjunction with the Caltrans traffic signals at Akers and Mineral King and Akers and Noble Avenue.	CMAQ	\$0	\$70	\$0	\$0	\$0	\$80
			Regional Measure	\$0	\$10	\$0	\$0	\$0	

2023 FTIP Adoption

Programming Amounts (in \$1,000's)				
Fund Type	22/23	23/24	24/25	25/26
CMAQ	\$1,827	\$0	\$0	\$0
Regional Measure	\$268	\$0	\$0	\$0
TOTALS	\$2,095	\$0	\$0	\$0

Tulare County Association of Governments (TCAG)
2023 FTIP

Grouped Projects for Safety Improvements -
SHOPP Collision Reduction Program

(CTIPS ID: 215-0000-0381)

						(Amounts in \$1,000's)			
Route	Post Miles	Location/Description	EA	PPNO	FY	PE	RW	CON	Project Cost
201	0.0/4.9	Near Kingsburg, from east of Madsen Avenue to Road 56. Install centerline rumble strips, replace Transportation Management System (TMS) elements and upgrade striping, pavement markings, and roadside signs.	1A540	7060	Prior	\$800	\$0	\$0	\$4,270
					22/23	\$815	\$135	\$2,520	
190	11.3/11.5	Near Porterville, from 0.1 mile west to 0.1 mile east of Rockford Road. Construct roundabout.	1A310	7033	Prior	\$2,950	\$850	\$0	\$10,100
					23/24	\$0	\$750	\$5,550	
<i>2023 FTIP Adoption</i>									

Programming Amounts (in \$1,000's)				
Fund Type	22/23	23/24	24/25	25/26
SHOPP AC	\$3,470	\$6,300	\$0	\$0
TOTALS	\$3,470	\$6,300	\$0	\$0

Projects are consistent with 40 CFR Part 93.126 Exempt Tables 2 and Table 3 categories - Railroad/highway crossing, Safer non-Federal-aid system roads, Shoulder improvements, traffic control devices and operating assistance other than signalization projects, Intersection signalization projects at individual intersections, Pavement marking demonstration, Truck climbing lanes outside the urbanized area, Lighting improvements, Emergency truck pullovers

Appendix D – Performance Measures

How the FTIP Addresses Federal Requirements for Performance Measures

Background

Federal rules require that the Federal Transportation Improvement Program (FTIP) “be designed such that once implemented, it makes progress toward achieving the performance targets established under § 450.306(d).” Also, the FTIP “shall include, to the maximum extent practicable, a description of the anticipated effect of [the FTIP] toward achieving the performance targets identified in the metropolitan transportation plan, linking investment priorities to those performance targets.”¹

The Moving Ahead for Progress in the 21st Century Act (MAP-21, 2012) established new requirements for metropolitan planning organizations (MPOs) to coordinate with transit providers, set performance targets, and integrate those performance targets and performance plans into their planning documents by specified dates. The most recent federal transportation legislative package, the Infrastructure Investment and Jobs Act of 2021 (IIJA), carries forward these performance-based planning requirements. Beginning in 2018, federal rules required that state departments of transportation and MPOs implement federally defined transportation system performance measures. In response, FHWA and FTA worked with state, regional, and transit agencies to identify performance measures that meet the requirements.

In California, Caltrans is directly responsible for submitting statewide performance targets and periodic progress reports to federal agencies. MPOs are required to establish targets for the same performance measures for their respective metropolitan planning areas within 180 days after the state establishes each target. MPOs may elect to support the statewide targets, establish alternative quantitative targets specific to their region, or use a combination of both approaches. Furthermore, each MPO must incorporate these short-range performance targets into their planning and programming processes, including the regional transportation plan (RTP) and FTIP.

FHWA Performance Measures

The federal performance measures defined by the Federal Highway Administration (FHWA) are categorized into three performance management (PM) focus areas. Each focus area includes an associated set of metrics for which statewide and regional targets must be set.

PM 1: Transportation Safety

Motor Vehicle Collisions

- Number of motor vehicle collision fatalities
- Rate of motor vehicle collision fatalities per 100 million VMT
- Number of motor vehicle collision serious injuries
- Rate of motor vehicle collision serious injuries per 100 million VMT

Non-Motorized Fatalities and Serious Injuries

- Number of non-motorized fatalities and serious injuries

PM 2: National Highway System (NHS) Pavement and Bridge Condition

NHS Pavement Condition

- Percentage of Interstate System pavement in 'good' condition
- Percentage of non-interstate NHS pavement in 'good' condition
- Percentage of Interstate System pavement in 'poor' condition
- Percentage of non-interstate NHS pavement in 'poor' condition

NHS Bridge Condition

- Percentage of NHS bridges in 'good' condition
- Percentage of NHS bridges in 'poor' condition

PM 3: NHS Performance, Interstate System Freight Movement, and CMAQ Program Performance

NHS Performance

- Percent of Interstate System mileage reporting reliable person-mile travel times
- Percent of non-interstate NHS mileage reporting reliable person-mile travel times

Interstate Freight Movement

- Percent of Interstate system mileage reporting reliable truck travel times

CMAQ Program Performance

- Annual hours of peak-hour excessive delay per capita
- Total emissions reduction by criteria pollutant (PM10, PM2.5, Ozone, CO)
- Percent of non-single occupancy vehicle (SOV) travel

FTA Performance Measures

In addition to the three PM focus areas defined by FHWA, the Federal Transit Administration (FTA) established performance measures and reporting requirements for transit asset management (TAM) and transit safety.

Performance metrics for TAM focus on the maintenance of our regional transit system in a state of good repair. Transit safety performance monitoring is focused on assessment of the number of transit incidents resulting in fatalities or serious injuries and transit system reliability.

FTA issued the TAM Final Rule (49 CFR §625 et seq.), effective October 1, 2016, to implement MAP-21 transit asset management provisions. This final rule mandates a National TAM System, defines 'State of Good Repair' (SGR), and requires transit providers to develop TAM plans. The Metropolitan Transportation Planning Final Rule (23 CFR §450.206) outlines the timelines and processes by which states, MPOs, and transit providers must coordinate in the target setting process.

The FTA PM focus areas and associated metrics are as follows:

Transit Asset Management (TAM)

- Equipment: Share of non-revenue vehicles that meet or exceed useful life benchmark
- Rolling Stock: Share of revenue vehicles that meet or exceed useful life benchmark

Tulare County Association of Governments (TCAG)
Transportation Performance Measures for 2023 FTIP Adoption

- Infrastructure: Share of track segments with performance restrictions
- Facilities: Share of transit assets with condition rating below 3.0 on FTA Transit Economic Requirements Model (TERM) scaleⁱⁱ

Transit Safety

- Number of transit-related fatalities
- Number of transit-related injuries
- Number of transit system safety events
- Transit system reliability

Public Transit Agency Safety Plan

On July 19, 2018, the FTA published the Public Transportation Agency Safety Plan (PTASP) Final Rule (49 CFR §673.15) regulating how Chapter 53 grantees would have to implement federally mandated safety standards. The rule’s effective date was July 19, 2019, and the compliance date was initially set for July 20, 2020. Considering the extraordinary operational challenges presented by the COVID-19 public health emergency, FTA issued a Notice of Enforcement Discretion effectively extending the PTASP compliance deadline from July 20, 2020 to December 31, 2020. The MPO’s initial transit safety targets are to be set within 180 days of receipt of the safety performance targets from the transit agencies. The MPO then revisits its targets based on the schedule for preparation of its system performance report that is part of the Regional Transportation Plan (RTP). The first RTP or FTIP update or amendment to be approved on or after July 20, 2021, is required to include the MPO’s transit safety targets. See FTA’s COVID-19 FAQs page for more information about the Notice.ⁱⁱⁱ

The final rule specifically requires transit agencies receiving federal funds to develop a safety plan and annually self-certify compliance with that plan. The National Public Transportation Safety Plan identifies four performance measures that must be included in the transit agency safety plans: number of fatalities, number of injuries, safety events, and system reliability. Each transit agency must make its safety performance targets available to MPOs to assist in the planning process and to coordinate, to the maximum extent practicable, with the MPO in selecting regional transit safety targets.

How the Tulare County Association of Governments (TCAG) Addresses Each Performance Management Focus Area

Transportation Safety (PM 1)

TCAG elected to support to the 2022 Caltrans Statewide Safety Performance Management Targets (shown on table below). Many of the projects programmed in the FTIP serve to improve transportation safety to some extent. For some projects, safety is the primary objective, and for others, safety may be a single component of a more expansive scope.

Transportation Safety (PM1) Targets

Performance Measure	Data Source	5-Year Rolling Average Target	Percent Reduction Target
Number of motor vehicle collision fatalities	FARS	3491.8	-3.61%
Rate of motor vehicle collision fatalities (per 100 million VMT)	FARS & HPMS	1.042	-2.00%
Number of motor vehicle collision serious injuries	SWITRS	16704.2	1.66%
Rate of motor vehicle collision serious injuries (per 100 million VMT)	SWITRS & HPMS	4.879	1.66%
Number of non-motorized fatalities and serious injuries	FARS & SWITRS	4684.4	-3.61% for Fatalities and 1.66% for Serious Injuries

Three statewide funding programs dedicated to transportation safety are employed by TCAG including:

1. Active Transportation Program (ATP)
2. Highway Safety Improvement Program (HSIP)
3. State Highway Operations & Protection Program (SHOPP) Collision Reduction

ATP

The ATP provides funding for bicycle and pedestrian projects. Since people are more vulnerable to safety risk while walking or biking as compared to traveling in a motor vehicle, any project that promotes the safe use of bicycling or pedestrian modes is likely to generate safety benefits. The ATP further emphasizes safety by allotting points for project applications that specifically seek to reduce the rate or number of pedestrian and bicyclist fatalities and injuries.

HSIP

The HSIP directly addresses transportation safety. The program’s stated purpose is to “achieve a significant reduction in traffic fatalities and serious injuries on all public roads, including non-State-owned public roads and roads on tribal land.” Successful project applications specifically seek to reduce collision related fatalities and injuries. The program is designed to focus local investments to locations and corridors that demonstrate the greatest need for safety improvement to implement lower cost countermeasures.

SHOPP Collision Reduction

SHOPP is the State Highway System’s “fix-it-first” program that funds roadway repairs and preservation, emergency repairs, safety improvements, and some highway operational improvements on the State Highway System (SHS). SHOPP funding is limited to capital improvement projects that do not add new roadway capacity (no new highway lanes) to the SHS, though some new auxiliary lanes may be eligible for SHOPP funding.

The Collision Reduction program is one of eight categories that make up the SHOPP, and its objective is to reduce the number or severity of collisions. The SHOPP Collision Reduction category consists of two sub-programs:

Tulare County Association of Governments (TCAG)
Transportation Performance Measures for 2023 FTIP Adoption

- *201.010 - Safety Improvements*: Reactive approach based on analysis of collision history
- *201.015 - Collision Severity Reduction*: Proactive approach targeted to reduce the potential for traffic collisions based on past performance of roadway characteristics

201.010 – Safety Improvements

The SHOPP Collision Reduction Safety Improvements sub-program is designed to reduce the number or severity of collisions on the SHS. Projects with a safety index above 200 qualify as a safety improvement project. Projects may be individual locations where the collision history indicates a pattern potentially correctable by a targeted safety improvement, such as unsafe traffic (school zone signals included), wet pavement corrections, curve corrections, shoulder widening, left-turn channelization, etc. All proposed projects will be verified by the Caltrans Office of Traffic Safety Programs in the Division of Traffic Operations before being certified as a safety improvement project.

This program also provides funding for safety improvements at sites identified in regional monitoring programs for the reduction of motor vehicle collisions, such as locations at high risk for wrong-way, multilane, cross-median, cross-centerline, and run-off-the-road collisions. The program also provides funding for non-motorized safety improvements, such as pedestrian and bicycle facilities.

The Safety Improvements program does not provide funding for relocating existing highways or projects that would add new through lanes or upgrade existing highways to a higher classification, such as conventional to expressway, regardless of the safety benefits. This program also does not include projects where the prime purpose is reducing congestion.

Highway improvement projects along an existing alignment to improve standards of width, grade, alignment, or other geometric improvements, are considered new highway construction and are included in the Caltrans STIP programs.

201.015 - Collision Severity Reduction

This sub-program is focused on upgrading existing highway safety features within the roadbed's clear recovery area to reduce the number and severity of collisions. Eligible projects may include new guardrail end treatments and crash cushions, rumble strips, glare screen, rock fall mitigation, overcrossing pedestrian fencing, crosswalk safety enhancements, and improvements that prevent roadway departure.

The Collision Severity Reduction program is designed to be proactive in enhancing safety on the State Highway System. As such, this program is not subject to a safety index analysis but will define projected collision severity reduction performance quantitatively. Projects will be prioritized based on the projected collision severity reduction benefits provided.

2022 SHOPP Collision Reduction Numbers (Statewide)

A total of 733 projects are included in the 2022 SHOPP that was adopted by the CTC in March 2022. The 2022 SHOPP is valued at \$17.9 billion, which includes reservation amounts for several programs, including the Collision Reduction Program. The SHOPP Collision Reduction Program currently has 116 programmed safety projects totaling \$1,447,532,000. The SHOPP reserves \$1,188,000,000 for the 201.010 Safety Improvement program. The reserved amount will address future safety improvements as they are identified.

Tulare County Association of Governments (TCAG)
 Transportation Performance Measures for 2023 FTIP Adoption

The safety of motorists, bicyclists, and pedestrians is a primary concern of TCAG. As shown in table below, the vast majority of funding in the FTIP is directed toward projects which primarily address safety of have safety components.

Summary of Safety Projects in the 2023 FTIP

Category	Number of Projects	% of Projects	Total Project Cost	% of Total Project Cost	Funding in the 4-Year Element	% of Funding in the 4-Year Element
Primarily Safety Projects	13	22.81%	\$36,415,000	4%	\$30,506,000	4%
Other Projects with Safety Components	37	64.91%	\$733,581,000	87%	\$347,623,000	41%
Non-Safety Projects	7	12.28%	\$74,784,000	9%	\$74,784,000	9%
Total FTIP Investments	57	100.00%	\$844,780,000	100%	\$452,913,000	54%

Safety Project Highlights

Near Porterville on Caltrans District 6 is delivering the State Route 190 and Rockford Street roundabout, which will promote improved traffic flow and operations and safety for all transportation modes. In the Community of Ivanhoe, Caltrans District 6 will be delivering the Ivanhoe Safe Routes to School Project. The project will install pedestrian and bicycle improvements including sidewalks, a shared-use path, railroad crossings, bicycle amenities, and transit facilities.

National Highway System (NHS) Pavement & Bridge Condition (PM 2)

NHS Pavement and Bridge Condition (PM 2) Targets

For the Surface Transportation Block Grant Program (STBGP), TCAG implemented a ranking criterion that prioritizes projects which address maintenance and operation of existing facilities. The maintenance and operations criterion accounts for 45 percent of the total competitive score.

TCAG continues to work with member agencies to address funding needs for pavement and bridge condition improvements. TCAG remains committed to ensuring that progress is made in the future. TCAG has bonded to advance \$10 million for our farm to market roads (some of which are located on the NHS). In addition, TCAG has dedicated regional measure funds for bridge matching funds for the County to partner with bridge funding administered through Caltrans.

NHS Pavement and Bridge Condition (PM 2) Targets

Performance Measure	Target
Percentage of Interstate System pavement in 'Good' condition	See Note 1
Percentage of non-interstate NHS pavement in 'Good' condition	11.4%
Percentage of Interstate System pavement in 'Poor' condition	See Note 1
Percentage of non-interstate NHS pavement in 'Poor' condition	17.3%
Percentage of NHS bridges in 'Good' condition	11.1%
Percentage of NHS bridges in 'Poor' condition	0.0%

Note 1: These items do not apply to TCAG as TCAG agencies do not own any Interstate assets (in fact there are no Interstate highways in Tulare County)

The following section describes the funding sources and programs that have been used to fund PM 2 related projects in the TCAG region.

Local Funds

Cities and counties spend billions of dollars each year maintaining local roads and bridges. Funding for these efforts is derived from a myriad of sources. In a survey of California jurisdictions, for local funds alone, there are more than a hundred different sources of taxes and fees reported that are used on pavement improvement projects.^{iv} Some examples of local funding sources include:

- Local sales taxes
- Development impact fees
- General funds
- Various assessment districts – lighting, maintenance, flood control, special assessments, community facility districts
- Traffic impact fees
- Traffic safety/circulation fees
- Utilities (e.g., stormwater, water, wastewater enterprise funds)
- Transportation mitigation fees
- Parking and various permit fees
- Flood control districts
- Enterprise funds (solid waste and water)
- Investment earnings
- Parcel/property taxes
- Indian reservation roads

Tulare County Association of Governments (TCAG)
Transportation Performance Measures for 2023 FTIP Adoption

- Indian gaming funds
- Vehicle registration fees
- Vehicle code fines
- Underground impact fees
- Transient occupancy taxes
- Capital Improvement Program (CIP) reserves/capital funds

Local Funds are typically used for non-regionally significant road maintenance, safety, and bridge projects. Even so, some of the PM 2 projects in the FTIP are funded through Local Funds.

State Funds

HUTA

The Highway Users Tax Account (HUTA), more commonly known as the state gas tax, is still the single largest funding source for cities and counties.

SB 1

California doubled down on PM 2 when it approved Senate Bill 1 on April 28, 2017. SB 1 increased several taxes and fees to raise more than \$5 billion annually in new transportation revenues. Moreover, SB 1 provides for inflationary adjustments, so that purchasing power does not diminish as it has in the past. SB 1 prioritizes funding towards maintenance, rehabilitation, and safety improvements on state highways, local streets and roads, and bridges and to improve the state's trade corridors, transit, and active transportation facilities.

Many SB 1 funds are not captured in the FTIP because this document focuses on federally funded and regionally significant projects, while SB 1 is a non-federal fund source that tends to pay for non-regionally significant road maintenance, safety, and bridge projects. Even so, some of the PM 2 projects in the FTIP are funded through SB 1.

Federal Funds

HBP

The Highway Bridge Program (HBP) provides federal aid to local agencies to replace and rehabilitate deficient, locally owned, public highway bridges. The HBP is intended to remove structural deficiencies, the Bipartisan Infrastructure Law (BIL) revises the terminology to "classified in poor condition," from existing local highway bridges to keep the traveling public safe.^v The HBP provides about \$288 million annually for bridge projects. Off-system bridges are usually funded at 100% HBP, while on system bridges are funded at 88.53% HBP. An exception to the federal participating rate is "high-cost" bridges, in which sponsors enter into agreements with Caltrans Local Assistance and agree on a federal participating rate which may not equal 100% or 88.53%.

BFP

Bridge Formula Program (BFP) is a new program established under the Bipartisan Infrastructure Law (BIL) to provide funding to replace, rehabilitate, preserve, protect, and construct bridges. It is a complement to the discretionary Bridge Investment Program (see below). The Bridge Formula Program under BIL provides 4.25 Billion to the State of California, of which States are required to reserve 15

Tulare County Association of Governments (TCAG)
Transportation Performance Measures for 2023 FTIP Adoption

percent of their formula funds under this program for use on off-system bridges. For funds used on locally owned off-system bridges, the Federal share is 100%.

SHOPP

The SHOPP was described in the section above under PM 1. Two of the eight categories of the SHOPP that address PM 2 are Bridge Preservation and Roadway Preservation.

Although the SHOPP is a program, it is often thought of as a fund source as well. The FTIP lists the fund source for most SHOPP projects as “SHOPP Advance Construction.” Caltrans blends funds from HUTA, SB 1, and federal highway funds into SHOPP, and the “SHOPP Advance Construction” designation serves as a placeholder for what may be federal or state funds.

SHOPP Roadway Preservation

The SHOPP Roadway Preservation category includes the following programs:

- 201.120 – Roadway Rehabilitation
- 201.121 – Pavement Preservation
- 201.122 – Pavement Rehabilitation
- 201.150 – Roadway Protective Betterments
- 201.151 – Drainage System Restoration
- 201.170 – Signs and Lighting Rehabilitation

The 2022 SHOPP has 306 Roadway Preservation projects totaling \$9,874,173,000 which includes future need/contingency dollars. The SHOPP does not have a reservation for Roadway Preservation.

SHOPP Bridge Preservation

The SHOPP Bridge Preservation category includes the following programs:

- 201.110 – Bridge Rehabilitation and Replacement
- 201.111 – Bridge Scour Mitigation
- 201.112 – Bridge Rail Replacement and Upgrade
- 201.113 – Bridge Seismic Restoration
- 201.119 – Capital Bridge Preventative Maintenance Program
- 201.322 – Transportation Permit Requirements for Bridges

The 2022 SHOPP has 117 Bridge Preservation projects totaling \$2,422,402,000 which includes future need/contingency dollars. The SHOPP does not have a reservation for Bridge Preservation.

Summary of NHS Pavement and Bridge Condition Programs & Projects in the 2023 FTIP

Category	Number of Projects	% of Projects	Total Project Cost	% of Total Project Cost	Funding in the 4-Year Element	% of Funding in the 4-Year Element
Pavement Condition Projects	13	23%	\$493,070,000	58%	\$215,258,000	48%
Bridge Condition Projects	0	0%	\$0	0%	\$0	0%
Total Pavement and Bridge Condition Projects	13	23%	\$493,070,000	58%	\$215,258,000	48%
Non-Pavement and Bridge	44	77%	\$351,710,000	42%	\$237,655,000	52%
Total FTIP Investments	57	100%	\$844,780,000	100%	\$452,913,000	100%

Pavement and Bridge Condition Project Highlights

In the City of Visalia, the 2023 FTIP has four projects that will rehabilitate approximately 2 miles of Riggins Avenue. Also in the City of Visalia is a project which will rehabilitate and provide operational improvements on an approximate 3 miles stretch of Caldwell Avenue. Under the SHOPP Roadway Preservation Program, Caltrans District 6 will be delivering approximately \$88.6 million in roadway rehabilitation projects on State-owned NHS assets in Tulare County.

NHS Performance, Interstate System Freight Movement, and CMAQ Program Performance (PM 3)

System reliability and mobility is a major concern in the TCAG region. A properly functioning, well-maintained streets and highway system is critical for public safety and mobility, emergency responders, law enforcement, the trucking industry and for farm-to-market purposes. Job creation also benefits from a well-functioning and reliable transportation system. TCAG has a track record of working cooperatively with member agencies to accomplish the region’s goals with respect to local streets and roads mobility and reliability.

PM3 statewide targets were adopted as the TCAG in 2018. 2 year and 4 years targets were set with the mid performance review period completed in 2020. After the mid-year review, the 4 years targets were unchanged which are shown in the table below. Work on the next PM3 cycle target setting will take place later this year.

NHS Performance, Interstate System Freight Movement, and CMAQ Program

Performance Measure	Target
NHS Performance	
Percent of Interstate System mileage reporting reliable person-mile travel times	See Note 1
Percent of non-Interstate NHS mileage reporting reliable person-mile travel times	74.0%
Interstate Freight Movement	
Percent of Interstate system mileage reporting reliable truck travel times	See Note 1
CMAQ Program Performance	
Annual hours of peak-hour excessive delay per capita	See Note 2
Total emissions reduction by criteria pollutant (PM10, PM2.5, Ozone, CO)	VOC – 970.87 CO – 7,000.54 NOx – 1,788.43 PM ₁₀ – 2,479.83 PM _{2.5} – 922.34
Percent of non-single occupancy vehicle (SOV) travel	See Note 2
Notes	
1 These items do not apply to TCAG as TCAG agencies do not own any Interstate assets (in fact there are no Interstate highways in Tulare County)	
2 These items do not apply to TCAG as they only apply to urban areas with 1 million or more in	

The following are funding sources and programs that help fund Non-Interstate and Interstate improvement projects:

SHOPP Mobility

The SHOPP Mobility category includes following three programs:

- 201.310 – Operational Improvements
- 201.315 – Transportation Management Systems
- 201.321 – Weigh Stations & Weigh-In-Motion Facilities

201.310 – Operational Improvements

The primary purpose of this program element is to improve traffic flow on existing State highways by reducing congestion and operational deficiencies at spot locations. Operational improvement projects do not expand the design capacity of the system.

Examples of Operational Improvements projects include, but are not limited to:

Tulare County Association of Governments (TCAG)
Transportation Performance Measures for 2023 FTIP Adoption

- Interchange modifications (not to accommodate traffic volumes significantly larger than what the existing facilities were designed for)
- Ramp modifications (acceleration - deceleration/weaving)
- Auxiliary lanes for merging or weaving between adjacent interchanges
- Curve corrections/improve alignment
Signals and/or intersection improvements
- Two-way left-turn lanes
- Channelization
- Turnouts
- Shoulder widening

201.315 – Transportation Management Systems

The primary purpose of this program element is to improve traffic flow on existing State highways by addressing system-wide congestion through system management techniques. Transportation Management Systems facilitate the real time management of the State highway system by providing accident and incident detection, verification, response, and clearance. These systems provide State highway system status information to travelers.

Examples of Transportation Management System projects include, but are not limited to:

- Traffic sensors
- Changeable message signs
- Close circuit television cameras
- Ramp meters
- Communications systems
- Highway advisory radio
- Traffic signal interconnect projects
- Traffic management systems housed in Transportation Management Centers (TMCs), including the necessary software and hardware (excluding facilities)
- TMC interconnect projects

201.321 – Weigh Stations & Weigh-in-Motion Facilities

The primary purpose of this SHOPP Mobility program element is to provide for Commercial Vehicle Enforcement Facilities (commonly called Weigh Stations) and Weigh-in-Motion (WIM) systems. The Weigh Stations are needed to support the Commercial Vehicle Enforcement Plan; Truck safety, size and weight regulations are enforced by the California Highway Patrol reducing truck related accidents or incidents and protection our highways from premature damage. The WIM sites provide data for federally required data systems and special studies, design and maintenance strategies, size and weight policies, enforcement and planning strategies, and the traffic and truck volumes publications.

The 2022 SHOPP features 65 Mobility projects programmed totaling \$1,748,406,000 which includes future need/contingency dollars. The SHOPP does not have a reservation for Mobility.

SB 1 Trade Corridor Enhancement Program (Including National Highway Freight Program)

The purpose of the Senate Bill 1 (SB 1) Trade Corridor Enhancement Program (TCEP) is to provide funding for infrastructure improvements on federally designated Trade Corridors of National and Regional Significance, on California's portion of the National Highway Freight Network as identified in

Tulare County Association of Governments (TCAG)
Transportation Performance Measures for 2023 FTIP Adoption

California Freight Mobility Plan, and along other corridors that experience high volumes of freight movement. The Trade Corridor Enhancement Program also supports the goals of the National Highway Freight Program, the California Freight Mobility Plan, and the guiding principles in the California Sustainable Freight Action Plan.

This statewide, competitive program will provide approximately \$300 million per year in state funding and approximately \$515 million in National Highway Freight Program funds if the federal program continues under the next federal transportation act.

Eligible applicants apply for program funds through the nomination of projects. All projects nominated must be identified in a currently adopted regional transportation plan (RTP). The Commission is required to evaluate and select submitted applications based on the following criteria:

- Freight System Factors – Throughput, Velocity, and Reliability
- Transportation System Factors – Safety, Congestion Reduction/Mitigation, Key Transportation Bottleneck Relief, Multi-Modal Strategy, Interregional Benefits, and Advanced Technology
- Community Impact Factors – Air Quality Impact, Community Impact Mitigation, and Economic/Jobs Growth
- The overall need, benefits, and cost of the project
- Project Readiness – ability to complete the project in a timely manner
- Demonstration of the required 30% matching funds
- The leveraging and coordination of funds from multiple sources
- Jointly nominated and/or jointly funded

Truck Travel Discussion

The Tulare County region relies heavily on goods movement due to its agricultural production, centralized location and distribution centers. Goods Movement in the San Joaquin Valley is currently dominated by a single transportation mode – trucking. The SJV Interregional Goods Movement Plan 2013 reported that goods movement dependent industries (including agriculture, food processing, construction, energy production, and transportation and logistics) accounted for over 564,000 jobs and \$56 billion in economic output in 2010. Mobility improvements are vital to maintaining Tulare County's role as a major provider of agricultural food products for the State of California and the nation.

CMAQ

The Congestion Mitigation and Air Quality (CMAQ) program supports improving air quality and relieving roadway congestion. The purpose of the CMAQ program is to fund transportation projects or programs that will contribute to attainment or maintenance of the National Ambient Air Quality Standards (NAAQS) for ozone, carbon monoxide (CO), and particulate matter (both PM10 and PM2.5).

**Summary of NHS Performance, Interstate System Freight Movement, and CMAQ Program
 Performance Projects in the 2023 FTIP**

Category	Number of Projects	% of Projects	Total Project Cost	% of Total Project Cost	Funding in the 4-Year Element	% of Funding in the 4-Year Element
Interstate Reliability Projects <i>Note 1</i>						
Non-Interstate Reliability Projects	16	28.07%	\$477,168,000	56.48%	\$203,610,000	44.96%
Truck Travel Time Projects <i>Note 1</i>						
CMAQ Projects	8	14.04%	\$24,768,000	2.93%	\$34,268,000	7.57%
Total PM 3 Projects	24	42.11%	\$501,936,000	59.42%	\$237,878,000	52.52%
Non-PM 3 Projects	33	57.89%	\$342,844,000	40.58%	\$215,035,000	47.48%
Total FTIP Investments	57	100.00%	\$844,780,000	100.00%	\$452,913,000	100.00%

Notes

1 These items do not apply to TCAG as TCAG agencies do not own any Interstate assets (in fact there are no Interstate highways in Tulare County)

2 These items do not apply to TCAG as they only apply to urban areas with 1 million or more in population

PM 3 Project Highlights

In the City of Visalia, the installation of a traffic signal interconnect network at Ben Maddox Way and St. John’s Parkway. In the City of Visalia, installation of fiber optic cable within the existing traffic signal conduit to improve traffic signal interconnectivity on Houston Avenue, Demaree Street, and Ben Maddox Way. In the City of Tulare, Caltrans District 6 will be constructing improvements to the Paige Avenue Interchange on State Route 99 including the construction of roundabouts on Paige Avenue at the ramp termini to improve traffic operations.

Transit Asset Management (TAM)

The TCAG regional targets are presented in tabular form to account for the differences in targets and standards among the providers of public transportation. Targets represent the thresholds for the maximum percentage of assets at or exceeding acceptable standards. In most cases for the target-setting process, providers set targets that were approximately equivalent to their current performance. In future years, staff will work with the providers of public transportation to collate performance.

The TAM targets provided below were produced collaboratively with transit agencies based on their agency TAM plans and local targets. In developing the targets, TCAG reviewed and considered the various local and regional transit operators’ TAM plans (including identified goals, objectives, measures, and targets), thereby incorporating them into the metropolitan planning process.

Transit Asset Management (TAM) Targets

Vehicles by Type	Quantity	Exceed ULB#	Exceed ULB%	Regional Target			
				2020	2021	2022	2023
Bus	92	13	14.10%	15%	15.50%	12.50%	10%
Cutaway Bus	79	30	37.80%	40%	30%	20%	10%
Minivan	9	7	77.80%	80%	60%	40%	15%
Rubber-Tired Trolley	2	2	0	0%	0%	50%	15%
Non-Revenue Vehicles	6	5	83.30%	85%	65%	45%	15%

Tulare County Association of Governments (TCAG)
 Transportation Performance Measures for 2023 FTIP Adoption

Local transit agencies adopted TAM plans in 2018, establishing targets through 2023. TAM plans are to be updated at least once every four (4) years, barring significant unexpected changes which would necessitate an expedited plan update. Therefore, the targets incorporated into the current plans are expected to remain in place until 2022. TCAG staff has developed a set of region-wide TAM targets in line with those set by local transit agencies, considering the condition of assets as reported in each agency’s TAM plan. The proposed region-wide TAM targets are set as such a level as to be met or exceeded by each transit agency that meets or exceeds its own established targets. The Regional Transportation Plan (RTP) and Federal Transportation Improvement Program (FTIP) will include a description of progress being made toward achieving the MPO TAM targets.

TCAG will continue to work with the region’s transit operators and county transportation commissions to seek ways to improve the methodology, data collection, and analysis for future RTP updates, and to continue engaging in a regional discussion about transit state of good repair and the need for additional funding.

Transit Operators in the TCAG region have developed and adopted TAM plans and targets, which are available from the transit agencies. TAM category projects may also be supported by state, local, and other federal funding sources (e.g., FTA Section 5337 State of Good Repair, FTA 5307, FTA 5339 formula funds, and FHWA flexible funds such as CMAQ and STBG). The funding and the program of projects in the FTIP will enable the Transit Operators to achieve their respective transit asset management performance targets.

Summary of Transit Asset Management Projects in the 2023 FTIP

Category	Number of Projects	% of Projects	Total Project Cost	% of Total Project Cost	Funding in the 4-Year Element	% of Funding in the 4-Year Element
Transit Asset Projects ¹	4	7.02%	\$12,784,000	1.51%	\$12,784,000	2.82%
Non-Transit Asset Projects	53	92.98%	\$831,996,000	98.49%	\$440,129,000	97.18%
Total FTIP Investments	57	100.00%	\$844,780,000	100.00%	\$452,913,000	100.00%

1 These projects also benefit transit safety targets.

There are 4 projects in the 2023 FTIP totaling \$12,784,000 for the purchase of new transit buses. The total funding includes \$2,680,000 in FTA 5339 funds, \$2,668,000 in CMAQ funds, and \$7,436,000 in Regional and Local funds.

Transit Asset Management Project Highlights

The 2023 FTIP includes funding from FTA sources for projects that support TAM and maintaining a state of good repair. Examples of these projects include rural and urban capital assistance programs, rolling stock acquisition, and bus fleet replacement. For the TCAG region key projects that address TAM include:

- Visalia City Transit Bus Replacement totaling \$4,400,000 for the replacement of 4 transit buses
- Tulare County Regional Transit Agency (TCRTA) transit bus purchase totaling \$3,680,000 for the replacement of existing TCRTA buses.

Public Transportation Agency Safety Plans (PTASP)

Transit safety targets must be set every four years and be included in the TCAG Regional Transportation Plan (RTP). The goals, objectives, performance measures, and targets from the transit providers’ safety plans must also be integrated into the RTP, either directly or by reference.

The National Public Transportation Safety Plan identifies four performance measures that must be included: fatalities, injuries, safety events, and system reliability. Definitions for transit safety performance measures are as described in the NTD Safety and Security Manual.

The Federal Transit Administration (FTA), per the MAP-21 (Moving Ahead for Progress in the 21st Century) Act and subsequent federal transportation legislation, requires transit agencies which receive federal funding under the Section 5307 Urbanized Area Program to adopt Public Transportation Agency Safety Plans (PTASPs). A PTASP must outline the processes and procedures necessary to implement safety management systems (SMS) and establish targets for the following safety performance measures:

- Fatalities: Total number of reportable fatalities and rate per total vehicle revenue miles by mode
- Injuries: total number of reportable injuries and rate per total vehicle revenue miles by mode
- Safety Events: total number of reportable events and rate per total vehicle revenue miles by mode
- System Reliability: mean distance between major mechanical failures by mode

Following adoption of the agency safety plans by the agencies subject to this regulation, the metropolitan planning organization (MPO) must establish its own safety performance targets. These MPO safety performance targets must then be incorporated into each metropolitan transportation plan and federal transportation improvement program (FTIP) updated or amended thereafter.

The Tulare County Association of Governments (TCAG) regional safety performance targets are intended to be complementary to those established at the local level by each respective agency.

Transit providers may choose to establish additional targets for safety performance monitoring and measurement. The following table documents existing performance targets set by transit operators in the TCAG region.

Public Transportation Agency Safety Plan (PTASP) Targets

Mode of Service	Fatalities (Total)	Fatalities (per 100K VRM)	Injuries (Total)	Injuries (per 100K VRM)	Safety Events (Total) *	Safety Events (per 100 K VRM)	System Reliability (mean miles between
Fixed-Route	0	0.00	5	0.16	8	0.32	39,000
Commuter	0	0.00	0	0.00	2	0.81	135,000
Demand Response	0	0.00	2	0.70	3	1.03	20,000

*Totals indicate number of events per year.

Tulare County Association of Governments (TCAG)
 Transportation Performance Measures for 2023 FTIP Adoption

Local transit agencies adopted agency safety plans in 2020. PTASPs are to be updated annually, with updated targets based on safety data collected the preceding year. TCAG staff has developed a set of region-wide safety performance targets in line with those set by local transit agencies, based on incidents per 100,000 vehicle revenue miles and mean mileage between major mechanical failures. The proposed regionwide safety targets are set as such a level as to be met or exceeded by each transit agency that meets or exceeds its own established targets. The Regional Transportation Plan (RTP) and Federal Transportation Improvement Program (FTIP) will include a description of progress being made toward achieving the MPO transit safety performance targets.

Summary of Transit Safety Projects in the 2023 FTIP

Category	Number of Projects	% of Projects	Total Project Cost	% of Total Project Cost	Funding in the 4-Year Element	% of Funding in the 4-Year Element
Transit Safety Projects ¹	4	7.02%	\$12,784,000	1.51%	\$12,784,000	2.82%
Non-Transit Safety Projects	53	92.98%	\$831,996,000	98.49%	\$440,129,000	97.18%
Total FTIP Investments	57	100.00%	\$844,780,000	100.00%	\$452,913,000	100.00%

¹ These projects also benefit TAM targets

There are 4 projects in the 2023 FTIP totaling \$12,784,000 for the purchase of new transit buses. The total funding includes \$2,680,000 in FTA 5339 funds, \$2,668,000 in CMAQ funds, and \$7,436,000 in Regional and Local funds.

Transit Safety Project Highlights

The FTIP includes funding from FTA sources for projects that support transit safety. Examples of these projects consist primarily of bus replacements. For the TCAG region key projects that address transit safety include:

- Visalia City Transit Bus Replacement totaling \$4,400,000 for the replacement of 4 transit buses
- Tulare County Regional Transit Agency (TCRTA) transit bus purchase totaling \$3,680,000 for the replacement of existing TCRTA buses.

Footnotes

ⁱ [23 CFR § 450.326 \(c, d\)](#)

ⁱⁱ The TERM scale is a measure of condition used in the National Transit Database (NTD). This is the five-point scale that agencies use to report the condition of their facility assets. An asset is deemed to be in good repair if it has a rating of 3, 4, or 5 on this scale.

ⁱⁱⁱ MPO Frequently Asked Questions, Public Transportation Agency Safety Plan Final Rule, FTA <https://www.transit.dot.gov/regulations-and-programs/safety/public-transportation-agency-safety-program/mpo-frequently-asked#SPTQ4>

^{iv} California Statewide Local Streets and Roads Needs Assessment, October 2018, pg. 39. <https://www.savecaliforniastreet.org/wp-content/uploads/2018/10/2018-Statewide-Final-Report-1.pdf>

^v Chapter 6 Highway Bridge Program, January 2019. <https://dot.ca.gov/-/media/dot-media/programs/local-assistance/documents/lapg/g06.pdf>

Appendix E – 2023 FTIP Resolution

BEFORE THE
TULARE COUNTY ASSOCIATION OF GOVERNMENTS
COUNTY OF TULARE, STATE OF CALIFORNIA

In the matter of:

APPROVAL OF 2023 FEDERAL)	
TRANSPORTATION IMPROVEMENT)	
PROGRAM, THE 2022 REGIONAL)	
TRANSPORTATION PLAN/SUSTAINABLE)	Resolution No. 2022-XXX
COMMUNITY STRATEGY AND THE)	
CORRESPONDING CONFORMITY)	
ANALYSIS)	

WHEREAS, the Tulare County Association of Governments is a Regional Transportation Planning Agency and a Metropolitan Planning Organization, pursuant to State and Federal designation; and

WHEREAS, federal planning regulations require Metropolitan Planning Organizations to prepare and adopt a long range Regional Transportation Plan (RTP) for their region; and

WHEREAS, Senate Bill (SB) 375 (Steinberg, 2008) requires that Metropolitan Planning Organizations prepare a Sustainable Communities Strategy (SCS) as part of the 2022 RTP that demonstrates how the region will reduce the greenhouse gas emissions (GHG) from automobiles and light trucks to achieve, if there is a feasible way to do so, the applicable greenhouse gas emission reduction targets approved by the California Air Resources Board (ARB), and

WHEREAS, pursuant to SB 375, the applicable ARB per capita GHG emission reduction targets for the Tulare County Association of Governments are 13% below 2005 per capita emissions levels by 2020 and 16% below 2005 per capita emissions levels by 2035; and

WHEREAS, pursuant to SB 375, the SCS must: (1) identify the general location of uses, residential densities, and building intensities within the region; (2) identify areas within the region sufficient to house all the population of the region, including all economic segments of the population, over the course of the planning period of the regional transportation plan taking into account net migration into the region, population growth, household formation and employment growth; (3) identify areas within the region sufficient to house an eight-year projection of the regional housing need for the region pursuant to Government Code Section 65584; (4) identify a transportation network to service the transportation needs of the region; (5) gather and consider the best practically available scientific information regarding resource areas and farmland in the region as defined in subdivisions (1) and (b) of the Government Code Sections 65080 and 65581; and (6) consider the statutory housing goals specified in Sections 65580 and 65581, (7) set forth a forecasted development pattern for the region which when integrated with the transportation network, and other transportation measures and policies, will reduce the GHG emissions from automobiles and light trucks to achieve the GHG reduction targets, and (8) allow the RTP to comply with air quality conformity requirements under the federal Clean Air Act; and

WHEREAS, the 2022 RTP/SCS has been prepared in accordance with state guidelines adopted by the California Transportation Commission and;

WHEREAS, a 2022 RTP/SCS has been prepared in full compliance with federal guidance; and

WHEREAS, federal planning regulations require that Metropolitan Planning Organizations prepare and adopt a short range Federal Transportation Improvement Program (FTIP) for their region; and

WHEREAS, projects submitted in the 2023 FTIP must be financially constrained and the financial plan affirms that funding is available; and

WHEREAS, the 2023 FTIP has been prepared to comply with Federal and State requirements for local projects and through a cooperative process between the Federal Highway Administration (FHWA), the Federal Transit Administration (FTA), the State Department of Transportation (Caltrans), principal elected officials of general purpose local governments and their staffs, and public owner operators of mass transportation services acting through the Tulare County Association of Governments forum and general public involvement; and

WHEREAS, the 2023 FTIP program listing is consistent with: 1) the 2022 RTP/SCS; 2) the 2022 State Transportation Improvement Program; and 3) the Corresponding Conformity Analysis; and

WHEREAS, the 2023 FTIP contains the MPO's certification of the transportation planning process assuring that all federal requirements have been fulfilled; and

WHEREAS, the 2023 FTIP meets all applicable transportation planning requirements per 23 Code of Federal Regulations (CFR) Part 450; and

WHEREAS, the Tulare County Association of Governments has established performance targets that address the performance standards per 23 CFR Part 490 , 49 United States Code (U.S.C.) 5326(c), and 49 U.S.C. 5329(d) to use in tracking progress toward attainment of critical outcomes for the region of the MPO; and

WHEREAS, the Tulare County Association of Governments has integrated into its metropolitan transportation planning process, directly or by reference, the goals, objectives, performance measures, and targets described in other State transportation plans and transportation processes, as well as any plans developed under 49 U.S.C. Chapter 53 by providers of public transportation, required as part of a performance-based program; and

WHEREAS, the MPO must demonstrate conformity per 40 CFR Part 93 for the 2022 RTP/SCS and 2023 FTIP; and

WHEREAS, the 2022 RTP/SCS and 2023 FTIP includes a new Conformity Analysis; and

WHEREAS, the 2022 RTP/SCS and 2023 FTIP conforms to the applicable SIPs; and

WHEREAS, the 2022 RTP/SCS and 2023 FTIP do not interfere with the timely implementation of the Transportation Control Measures; and

WHEREAS, the documents have been widely circulated and reviewed by the Tulare County Association of Governments advisory committees representing the technical and management

staffs of the member agencies; representatives of other governmental agencies, including State and Federal; representatives of special interest groups; representatives of the private business sector; and residents of Tulare County consistent with the public participation process adopted by the Tulare County Association of Governments; and

WHEREAS, a public hearing was conducted on June 27, 2022 to hear and consider comments on the 2022 RTP/SCS, 2023 FTIP, and Corresponding Conformity Analysis;

NOW, THEREFORE, BE IT RESOLVED, that the Tulare County Association of Governments adopts the 2022 RTP/SCS, 2023 FTIP, and Corresponding Conformity Analysis.

BE IT FURTHER RESOLVED, that the Tulare County Association of Governments finds that the 2022 RTP/SCS and 2023 FTIP are in conformity with the requirements of the Federal Clean Air Act Amendments and applicable State Implementation Plans for air quality.

BE IT FURTHER RESOLVED, that the Tulare County Association of Governments also finds that the 2022 RTP/SCS meets the SB 375 GHG reduction targets of 13% below 2005 per capita emissions levels by 2020 and 16% below 2005 per capita emissions levels by 2035.

THE FOREGOING RESOLUTION was passed and adopted by the Tulare County Association of Governments this 15th day of August, 2022.

AYES:

NOES:

ABSENT:

TULARE COUNTY ASSOCIATION OF GOVERNMENTS

Amy Shuklian
Chair, TCAG

Ted Smalley
Executive Director, TCAG

Appendix F – Public Notice

**NOTICE OF PUBLIC HEARING ON THE
DRAFT 2023 FEDERAL TRANSPORTATION IMPROVEMENT PROGRAM,
THE DRAFT 2022 REGIONAL TRANSPORTATION PLAN/SUSTAINABLE
COMMUNITY STRATEGY, CORRESPONDING DRAFT CONFORMITY ANALYSIS,
AND DRAFT ENVIRONMENTAL IMPACT REPORT (SCH# 2021030198)**

NOTICE IS HEREBY GIVEN that the Tulare County Association of Governments will hold a public hearing on June 27, 2022 at 1:00 P.M. at the Tulare County Human Resources & Development Office, 2500 W. Burrel Avenue, Visalia, CA 93291 regarding the Draft 2023 Federal Transportation Improvement Program (2023 FTIP), the Draft 2022 Regional Transportation Plan/Sustainable Community Strategy (2022 RTP/SCS), the corresponding Draft Air Quality Conformity Analysis for the 2023 FTIP and 2022 RTP/SCS, and the Draft Environmental Impact Report (EIR) for the Draft 2022 RTP/SCS. The purpose of the public hearing is to receive public comments on these documents.

- The 2023 FTIP is a near-term listing of capital improvement and operational expenditures utilizing federal and state monies for transportation projects in Tulare County during the next four years.
- The 2022 RTP/SCS the County's long range land use and transportation plan through 2046.
- The corresponding Conformity Analysis contains the documentation to support a finding that the 2023 FTIP and 2022 RTP/SCS meet the federal Clean Air Act air quality conformity requirements for ozone and particulate matter.
- The Draft EIR document provides an analysis of environmental impacts related to the implementation of the Draft RTP/SCS as required by the California Environmental Quality Act.

The public participation efforts for the 2023 FTIP satisfies the program of projects (POP) requirements of the Federal Transit Administration (FTA) Urbanized Area Formula Program Section 5307 and FTA Bus and Bus Facilities Program Section 5339. If no comments are received on the proposed POP, the proposed transit program (funded with FTA 5307 and FTA 5339 dollars) will be the final program.

Individuals with disabilities may call Amie Kane or Servando Quintanilla (559-623-0450) of TCAG (with 3-working-day advance notice) to request auxiliary aids necessary to participate in the public hearing. Translation services are available (with 3-working-day advance notice) to participants speaking any language with available professional translation services.

A 55-day public review and comment period for the 2022 RTP/SCS will commence on Friday, May 20, 2022 and conclude on Thursday, July 14, 2022.

A 45-day public review and comment period for the Draft EIR will commence on Friday, May 20, 2022 and conclude on Tuesday, July 5, 2022.

A concurrent 30-day public review and comment period for the 2023 FTIP and the corresponding Draft Air Quality Conformity Analysis for the 2023 FTIP and 2022 RTP/SCS will commence on Friday, May 20, 2022 and conclude on Tuesday, June 21, 2022.

The draft documents are available for review at the Tulare County Association of Governments office, located at 210 N. Church Street, Suite B, Visalia, CA 93291 and on the TCAG website at www.tularecog.org.

Public comments are welcomed at the hearing.

After considering the comments, the draft documents will be revised as necessary, and the proposed final documents will be considered for adoption, by resolution, by the Tulare County Association of Governments at a regularly scheduled meeting to be held on August 15, 2022. The final documents will then be submitted to state and federal agencies for approval.

Contact Persons:

For questions or comments on the 2022 RTP/SCS, please contact:

Mr. Benjamin Kimball, Deputy Executive Director
Tulare County Association of Governments
210 N. Church Street, Suite B
Visalia, CA 93291
Phone: (559) 623-0450
Email: bkimball@tularecag.ca.gov

For questions or comments on the Draft EIR, 2023 FTIP and/or the Draft Air Quality Conformity Analysis, please contact:

Mr. Gabriel Gutierrez, Senior Regional Planner
Tulare County Association of Governments
210 N. Church Street, Suite B
Visalia, CA 93291
Phone: (559) 623-0450
Email: ggutierrez@tularecag.ca.gov

Appendix G – Comments Received and Responses

Appendix H – Air Quality Conformity Document

**DRAFT CONFORMITY ANALYSIS
FOR THE 2023 FEDERAL TRANSPORTATION IMPROVEMENT
AND THE 2022 REGIONAL TRANSPORTATION PLAN**

MAY 20, 2022

TULARE COUNTY ASSOCIATION OF GOVERNMENTS

This report was funded in part through grant(s) from the Federal Highway Administration and Federal Transit Administration, U. S. Department of Transportation. The views and opinions of the Tulare County Association of Governments expressed herein do not necessarily state or reflect those of the U.S. Department of Transportation

TABLE OF CONTENTS

EXECUTIVE SUMMARY	1
CONFORMITY REQUIREMENTS	2
CONFORMITY TESTS	3
RESULTS OF THE CONFORMITY ANALYSIS	3
REPORT ORGANIZATION.....	4
CHAPTER 1: FEDERAL AND STATE REGULATORY REQUIREMENTS.....	5
A. FEDERAL AND STATE CONFORMITY REGULATIONS.....	5
B. CONFORMITY REGULATION REQUIREMENTS	7
C. AIR QUALITY DESIGNATIONS APPLICABLE TO THE SAN JOAQUIN VALLEY	9
D. CONFORMITY TEST REQUIREMENTS	11
E. ANALYSIS YEARS	18
CHAPTER 2: LATEST PLANNING ASSUMPTIONS AND TRANSPORTATION MODELING.....	21
A. SOCIOECONOMIC DATA.....	23
B. TRANSPORTATION MODELING	24
C. TRAFFIC ESTIMATES.....	30
D. VEHICLE REGISTRATIONS.....	30
E. STATE IMPLEMENTATION PLAN MEASURES	31
CHAPTER 3: AIR QUALITY MODELING.....	32
A. EMFAC2014	33
B. ADDITIONAL PM-10 ESTIMATES	34
C. PM2.5 APPROACH.....	35
D. SUMMARY OF PROCEDURES FOR REGIONAL EMISSIONS ESTIMATES	38
CHAPTER 4: TRANSPORTATION CONTROL MEASURES.....	39
A. TRANSPORTATION CONFORMITY REGULATION REQUIREMENTS FOR TCMS	39
B. APPLICABLE AIR QUALITY IMPLEMENTATION PLANS.....	41
C. IDENTIFICATION OF 2002 RACM THAT REQUIRE TIMELY IMPLEMENTATION DOCUMENTATION	42
D. TCM FINDINGS FOR THE TIP AND REGIONAL TRANSPORTATION PLAN	44
E. RTP CONTROL MEASURE ANALYSIS IN SUPPORT OF 2003 PM-10 PLAN	44
CHAPTER 5: INTERAGENCY CONSULTATION.....	47
A. INTERAGENCY CONSULTATION.....	47
B. PUBLIC CONSULTATION.....	48
CHAPTER 6: TIP AND RTP CONFORMITY	49
REFERENCES.....	54

APPENDICES

Appendix A: Conformity Checklist

Appendix B: Transportation Project Listing

Appendix C: Conformity Analysis Documentation

Appendix D: Timely Implementation Documentation for Transportation Control Measures

Appendix E: Public Hearing Process Documentation

Appendix F: Response to Public Comments

TABLES

Table 1-1: On-Road Motor Vehicle 2008 and 2015 Ozone Standard Emissions Budgets..... 12
Table 1-2: On-Road Motor Vehicle PM-10 Emissions Budgets..... 13
Table 1-3: On-Road Motor Vehicle 1997 (24-hour and annual) PM2.5 Standard Emissions
Budgets 15
Table 1-4 On-Road Motor Vehicle 2006 24-Hour PM2.5 Standard Emissions Budgets..... 17
Table 1-5: On-Road Motor Vehicle 2012 (annual) PM2.5 Standard Emissions Budgets (Serious)
..... 18
Table 1-6: San Joaquin Valley Conformity Analysis Years..... 19
Table 2-1: Summary of Latest Planning Assumptions for the Tulare County Association of
Governments Conformity Analysis 22
Table 2-2: Traffic Network Comparison for Horizon Years Evaluated in Conformity Analysis 30
Table 2-3: 2007 PM-10 Maintenance Plan Measures Assumed in the Conformity Analysis 31
Table 6-1: Conformity Results Summary..... 51

EXECUTIVE SUMMARY

This report presents the Draft Conformity Analysis for the 2023 Federal Transportation Improvement Program (2023 FTIP) and the 2022 Regional Transportation Plan (2022 RTP). The Tulare County Association of Governments (TCAG) is the designated Metropolitan Planning Organization (MPO) in Tulare County, California, and is responsible for regional transportation planning.

The 2018 PM_{2.5} Plan addressing 1997, 2006 and 2012 PM_{2.5} standards was adopted by the San Joaquin Valley Air District on November 15, 2018 and California Air Resources Board on January 24, 2019 and subsequently submitted for EPA review. EPA issued final approval on 2018 PM_{2.5} SIP elements that pertain to 2006 24-hour PM_{2.5} standard serious area nonattainment on July 22, 2020. On November 26, 2021, EPA published final approval of the moderate area SIP budgets for the 2012 PM_{2.5} standard contained in the 2016 Moderate Area PM_{2.5} Plan and portions of the 2018 PM_{2.5} plan that pertain to the moderate requirements for the 2012 PM_{2.5} standard (effective December 27, 2021). Also on November 26, 2021, EPA partially disapproved the original SIP submittal dealing with 1997 annual PM_{2.5} nonattainment. In response, CARB submitted a 2021 SIP revision to the 2018 PM_{2.5} Plan demonstrating attainment by 2023. Then on January 28, 2022, EPA approved 2018 PM_{2.5} Plan portion dealing with the 1997 24-hour PM_{2.5} standard and determined that the SJV attained the standard by the December 31, 2020 deadline (effective February 28, 2022). On February 10, 2022, EPA found the 1997 annual PM_{2.5} budgets for attainment year 2023 adequate (effective February 25, 2022). Therefore, this conformity analysis incorporates new 2018 PM_{2.5} SIP budgets for the 2006 24-hour and 1997 annual and 24-hour PM_{2.5} standards.

The remaining components of the 2018 PM_{2.5} Plan addressing the 2012 PM_{2.5} serious nonattainment area requirements are currently undergoing EPA review. Should EPA act on these additional SIP elements, this conformity analysis includes an “upcoming budget test” to address conformity to the budgets anticipated to be available by end of this year.

The Clean Air Act Section 176(c) (42 U.S.C. 7506(c)) and U.S. Environmental Protection Agency (EPA) transportation conformity regulations (40 CFR 93 Subpart A) require that each new RTP and TIP be demonstrated to conform to the State Implementation Plan (SIP) before the RTP and TIP are approved by the MPO or accepted by the U.S. Department of Transportation (DOT). This analysis demonstrates that the criteria specified in the transportation conformity regulations for a conformity determination are satisfied by the 2023 FTIP and the 2022 RTP; a finding of conformity is therefore supported. The 2023 FTIP, the 2022 RTP, and the corresponding Conformity Analysis were approved by TCAG Policy Board on August 21, 2022. Federal approval is anticipated on or before December 31, 2022. FHWA/FTA last issued a finding of conformity for the 2021 FTIP and the 2018 RTP, as amended if applicable, on August 13, 2021. The 2023 FTIP and the 2022 RTP have been financially constrained in accordance with the requirements of 40 CFR 93.108 and consistent with the U.S. DOT metropolitan planning regulations (23 CFR Part 450). A discussion of financial constraint and funding sources is included in the appropriate documents.

The applicable Federal criteria or requirements for conformity determinations, the conformity tests applied, the results of the conformity assessment, and an overview of the organization of this report are summarized below.

CONFORMITY REQUIREMENTS

The Federal transportation conformity regulations (40 Code of Federal Regulations Parts 51 and 93) specify criteria and procedures for conformity determinations for transportation plans, programs, and projects and their respective amendments. The Federal transportation conformity regulation was first promulgated in 1993 by the U.S. EPA, following the passage of amendments to the Federal Clean Air Act in 1990. The Federal transportation conformity regulation has been revised several times since its initial release to reflect both EPA rule changes and court opinions. The transportation conformity regulation is summarized in Chapter 1.

The conformity regulation applies nationwide to “all nonattainment and maintenance areas for transportation-related criteria pollutants for which the area is designated nonattainment or has a maintenance plan” (40 CFR 93.102). Currently, the San Joaquin Valley (or portions thereof) is designated as nonattainment with respect to Federal air quality standards for ozone, and particulate matter under 2.5 microns in diameter (PM_{2.5}); and has a maintenance plan for particulate matter under 10 microns in diameter (PM₁₀). Therefore, transportation plans and programs for the nonattainment areas for Tulare County area must satisfy the requirements of the Federal transportation conformity regulation. Note that the urbanized/metropolitan areas of Kern, Fresno, Stanislaus and San Joaquin Counties have attained the CO standard and maintained attainment for 20 years. In accordance with Section 93.102(b)(4), conformity requirements for the CO standard stop applying 20 years after EPA approves an attainment redesignation request or as of June 1, 2018. Therefore, future conformity analyses for the TIP and RTP no longer include a CO conformity demonstration.

Under the transportation conformity regulation, the principal criteria for a determination of conformity for transportation plans and programs are:

- (1) the TIP and RTP must pass an emissions budget test using a budget that has been found to be adequate by EPA for transportation conformity purposes, or an interim emission test;
- (2) the latest planning assumptions and emission models specified for use in conformity determinations must be employed;
- (3) the TIP and RTP must provide for the timely implementation of transportation control measures (TCMs) specified in the applicable air quality implementation plans; and
- (4) interagency and public consultation.

On-going interagency consultation is conducted through the San Joaquin Valley Interagency Consultation Group to ensure Valley-wide coordination, communication and compliance with Federal and California Clean Air Act requirements. Each of the eight Valley MPOs and the San Joaquin Valley Unified Air Pollution Control District (Air District) are represented. The Federal Highway Administration (FHWA), Federal Transit Administration (FTA), the U.S. EPA, the California Air Resources Board (CARB) and Caltrans are also represented on the committee. The

final determination of conformity for the TIP and RTP is the responsibility of FHWA, and FTA within the U.S. DOT.

FHWA has developed a Conformity Checklist (included in Appendix A) that contains the required items to complete a conformity determination. Appropriate references to these items are noted on the checklist.

CONFORMITY TESTS

The conformity tests specified in the Federal transportation conformity regulation are: (1) the emissions budget test, and (2) the interim emission test. For the emissions budget test, predicted emissions for the TIP/RTP must be less than or equal to the motor vehicle emissions budget specified in the approved air quality implementation plan or the emissions budget found to be adequate for transportation conformity purposes. If there is no approved air quality plan for a pollutant for which the region is in nonattainment or no emission budget has been found to be adequate for transportation conformity purposes, the interim emission test applies. Chapter 1 summarizes the applicable air quality implementation plans and conformity tests for ozone, PM-10, and PM2.5.

RESULTS OF THE CONFORMITY ANALYSIS

A regional emissions analysis was conducted for the years 2022, 2023, 2024, 2025, 2026, 2029, 2031, 2037 and 2046 for each applicable pollutant. All analyses were conducted using the latest planning assumptions and emissions models. The major conclusions of the Conformity Analysis for the 2023 FTIP and 2022 RTP are:

- For 2008 and 2015 8-hour ozone, the total regional on-road vehicle-related emissions (ROG and NOx) associated with implementation of the 2023 FTIP and the 2022 RTP all years tested are projected to be less than the approved emissions budgets specified in the *2018 Updates to the California State Implementation Plan for the San Joaquin Valley* (2018 SIP Update). The conformity tests for ozone are therefore satisfied.
- For PM-10, the total regional vehicle-related emissions (PM-10 and NOx) associated with implementation of the 2023 FTIP and the 2022 RTP for all years tested are either (1) projected to be less than the approved emissions budgets, or (2) less than the emission budgets using the approved PM-10 and NOx trading mechanism for transportation conformity purposes from the *2007 PM-10 Maintenance Plan (as revised in 2015)*. The conformity tests for PM-10 are therefore satisfied.
- For the 1997 24-hour PM2.5 standard, the total regional on-road vehicle-related emissions associated with implementation of the 2023 FTIP and the 2022 RTP for the analysis years are either (1) projected to be less than the approved emission budgets, or (2) less than the emission budgets using the approved PM2.5 and NOx trading mechanism for transportation conformity

purposes from the *2018 Plan for the 1997, 2006, and 2012 PM2.5 Standards (2018 PM2.5 Plan)* for the 1997 PM2.5 24-hour serious area requirements (2020 attainment year). The conformity tests for the 1997 24-hour PM2.5 standard are therefore satisfied.

- For the 1997 annual PM2.5 standard, the total regional on-road vehicle-related emissions associated with implementation of the 2023 FTIP and the 2022 RTP for the analysis years are either (1) projected to be less than the adequate emission budgets, or (2) less than the emission budgets using the approved PM2.5 and NOx trading mechanism for transportation conformity purposes from the 2021 revision to the *2018 Plan for the 1997, 2006, and 2012 PM2.5 Standards (2018 PM2.5 Plan)* for the 1997 annual PM2.5 serious area requirements (2023 attainment year). The conformity tests for the 1997 annual PM2.5 standard are therefore satisfied.
- For the 2006 24-hour PM2.5 standard, the total regional on-road vehicle-related emissions associated with implementation of the 2023 FTIP and the 2022 RTP for the analysis years are either (1) projected to be less than the approved emission budgets, or (2) less than the emission budgets using the approved PM2.5 and NOx trading mechanism for transportation conformity purposes from the *2018 Plan for the 1997, 2006, and 2012 PM2.5 Standards (2018 PM2.5 Plan)*. The conformity tests for the 2006 PM2.5 standard are therefore satisfied.

For the 2012 annual PM2.5 standard, the total regional on-road vehicle-related emissions associated with implementation of the 2023 FTIP and the 2022 RTP for the analysis years are either (1) projected to be less than the approved emission budgets, or (2) less than the emission budgets using the approved PM2.5 and NOx trading mechanism for transportation conformity purposes from the *2018 Plan for the 1997, 2006, and 2012 PM2.5 Standards (2018 PM2.5 Plan)* for the 2012 PM2.5 moderate area requirements. In addition, this conformity analysis includes an “upcoming budget test” demonstrating conformity to the serious (2025) budgets contained in the 2018 PM2.5 Plan. The conformity tests for the 2012 PM2.5 standard are therefore satisfied. The 2023 FTIP and the 2022 RTP will not impede and will support timely implementation of the TCMs that have been adopted as part of applicable air quality implementation plans. The current status of TCM implementation is documented in Chapter 4 of this report. Since the local SJV procedures (e.g., Air District Rule 9120 Transportation Conformity) have not been approved by EPA, consultation has been conducted in accordance with Federal requirements.

REPORT ORGANIZATION

The report is organized into six chapters. Chapter 1 provides an overview of the applicable Federal and State conformity regulations and requirements, air quality implementation plans, and conformity test requirements. Chapter 2 contains a discussion of the latest planning assumptions and transportation modeling. Chapter 3 describes the air quality modeling used to estimate emission factors and mobile source emissions. Chapter 4 contains the documentation required under the Federal transportation conformity regulation for transportation control measures. Chapter 5 provides an overview of the interagency requirements and the general approach to compliance used by the San Joaquin Valley MPOs. The results of the conformity analysis for the TIP/RTP are provided in Chapter 6.

Appendix E includes public hearing documentation conducted on the 2023 FTIP, the 2022 RTP and the corresponding Conformity Analysis on June 27, 2022. Comments received on the conformity analysis and responses made as part of the public involvement process are included in Appendix F.

CHAPTER 1: FEDERAL AND STATE REGULATORY REQUIREMENTS

The criteria for determining conformity of transportation programs and plans under the Federal transportation conformity regulation (40 CFR Parts 51 and 93) and the applicable conformity tests for the San Joaquin Valley nonattainment areas are summarized in this section. The Conformity Analysis for and the 2023 FTIP and 2022 RTP was prepared based on these criteria and tests. Presented first is a review of the development of the applicable conformity regulation and guidance procedures, followed by summaries of conformity regulation requirements, air quality designation status, conformity test requirements, and analysis years for the Conformity Analysis.

TCAG is the designated Metropolitan Planning Organization (MPO) for Tulare County in the San Joaquin Valley. As a result of this designation TCAG prepares the TIP, RTP, and associated conformity analyses. The TIP serves as a detailed four year (FY 2022/23 – 2025/26) programming document for the preservation, expansion, and management of the transportation system. The 2022 RTP has a 2046 horizon that provides the long term direction for the continued implementation of the freeway/expressway plan, as well as improvements to arterial streets, transit, and travel demand management programs. The TIP and RTP include capacity enhancements to the freeway/expressway system commensurate with available funding.

A. FEDERAL AND STATE CONFORMITY REGULATIONS

CLEAN AIR ACT AMENDMENTS

Section 176(c) of the Clean Air Act (CAA, 1990) requires that Federal agencies and MPOs not approve any transportation plan, program, or project that does not conform to the approved State Implementation Plan (SIP). The 1990 amendments to the Clean Air Act expanded Section 176(c) to more explicitly define conformity to an implementation plan to mean:

“Conformity to the plan's purpose of eliminating or reducing the severity and number of violations of the national ambient air quality standards and achieving expeditious attainment of such standards; and that such activities will not (i) cause or contribute to any new violation of any standard in any area; (ii) increase the frequency or severity of any existing violation of any standard in any area; or (iii) delay timely attainment of any standard or any required interim emission reductions or other milestones in any area.”

Section 176(c) also provides conditions for the approval of transportation plans, programs, and projects, and requirements that the Environmental Protection Agency (EPA) promulgate conformity determination criteria and procedures no later than November 15, 1991.

FEDERAL RULE

The initial November 15, 1991 deadline for conformity criteria and procedures was partially completed through the issuance of supplemental interim conformity guidance issued on June 7, 1991 for carbon monoxide, ozone, and particulate matter ten microns or less in diameter (PM-10). EPA subsequently promulgated the Conformity Final Rule in the November 24, 1993 *Federal Register* (EPA, 1993). The 1993 Rule became effective on December 27, 1993. The Federal Transportation Conformity Final Rule has been amended several times from 1993 to present. These amendments have addressed a number of items related to conformity lapses, grace periods, and other related issues to streamline the conformity process.

EPA published the Transportation Conformity Rule PM2.5 and PM10 Amendments on March 24, 2010; the rule became effective on April 23, 2010 (EPA, 2010a). This PM amendments final rule amends the conformity regulation to address the 2006 PM2.5 national ambient air quality standard (NAAQS). The final PM amendments rule also addresses hot-spot analyses in PM2.5 and PM10 and carbon monoxide nonattainment and maintenance areas.

On March 14, 2012, EPA published the *Transportation Conformity Rule Restructuring Amendments*, effective April 13, 2012 (EPA, 2012a). The amendments restructure several sections of the rule so that they apply to any new or revised NAAQS. In addition, several clarifications to improve implementation of the rule were finalized.

On March 6, 2015, EPA published *Implementation of the 2008 National Ambient Air Quality Standards for Ozone: State Implementation Plan Requirements* final rule (effective April 6, 2015), which shifted the San Joaquin Valley 2008 Ozone Standard attainment date from December 31, 2032 to July 20, 2032 (EPA, 2015). EPA's March 2015 ozone implementation rule also revoked the 1997 Ozone Standard for transportation conformity purposes. On February 16, 2018, the U.S. Court of Appeals ruled against parts of the EPA's 2015 Ozone Implementation Rule related to the revocation of the 1997 ozone standard and the relevant "anti-backsliding" requirements. However, according to *Transportation Conformity Guidance for the South Coast II Court Decision*, nonattainment areas with existing 2008 ozone conformity budgets are not required to address the 1997 ozone standards for conformity purposes.

On December 6, 2018, EPA published the *Implementation of the 2015 National Ambient Air Quality Standards for Ozone: Nonattainment Area State Implementation Plan Requirements* final rule, effective February 4, 2019 (EPA, 2018). The rule clarified that nonattainment areas must continue to demonstrate conformity to the 2008 ozone standards.

On August 24, 2016, EPA published its Final Rule titled *Implementing National Ambient Air Quality Standards for Fine Particles: State Implementation Plan Requirements*. According to the implementation rule, areas designated as nonattainment for the 1997 PM2.5 standards, must continue to demonstrate conformity to these standards until attainment (EPA, 2016).

MULTI-JURISDICTIONAL GUIDANCE

EPA reissued Guidance for Transportation Conformity Implementation in Multi-Jurisdictional Nonattainment and Maintenance Areas in July 2012 (EPA, 2012c). This guidance updates and supersedes the July 2004 "multi-jurisdictional" guidance (EPA, 2004a), but does not change the

substance of the guidance on how nonattainment areas with multiple agencies should conduct conformity determinations. This guidance applies to the San Joaquin Valley since there are multiple MPOs within a single nonattainment area. The main principle of the guidance is that one regional emissions analysis is required for the entire nonattainment area. However, separate modeling and conformity documents may be developed by each MPO. The Transportation Conformity Guidance for 2015 Ozone NAAQS Nonattainment Areas released in June 2018 incorporates the 2012 Multi-Jurisdictional Guidance by reference.

Part 3 of the guidance applies to nonattainment areas that have adequate or approved conformity budgets addressing a particular air quality standard. This Part currently applies to the San Joaquin Valley for ozone and PM-10. The guidance allows MPOs to make independent conformity determinations for their plans and TIPs as long as all of the other subareas in the nonattainment area have conforming transportation plans and TIPs in place at the time of each MPO and the Department of Transportation (DOT) conformity determination.

With respect to PM_{2.5}, the Transportation Conformity Rule – PM_{2.5} and PM₁₀ Amendments published on March 24, 2010 effectively incorporates the “multi-jurisdictional” guidance directly into the rule. The Rule allows MPOs to make independent conformity determinations for their plans and TIPs if all of the other subareas in the nonattainment area have conforming transportation plans and TIPs in place at the time of each MPO and DOT conformity determination.

DISTRICT RULE

The San Joaquin Valley Unified Air Pollution Control District (Air District) adopted Rule 9120 Transportation Conformity on January 19, 1995 in response to requirements in Section 176(c)(4)(c) of the 1990 Clean Air Act Amendments. In May 2015, the San Joaquin Valley Unified Air Pollution Control District requested ARB to withdraw Rule 9120 from California State Implementation Plan consideration.

In July of 2015, ARB sent a letter to EPA withdrawing Rule 9120 from the California State Implementation Plan. Therefore, EPA can no longer act on the Rule. It should also be noted that EPA has changed 40 CFR 51.390 to streamline the requirements for State conformity SIPs. Since a transportation conformity SIP cannot be approved for the San Joaquin Valley, the Federal transportation conformity rule governs.

B. CONFORMITY REGULATION REQUIREMENTS

The Federal regulations identify general criteria and procedures that apply to all transportation conformity determinations, regardless of pollutant and implementation plan status. These include:

- 1) *Conformity Tests* — Sections 93.118 and 93.119 specify emissions tests (budget and interim emissions) that the TIP/RTP must satisfy in order for a determination of conformity to be found. The final transportation conformity regulation issued on July 1, 2004 requires a submitted SIP motor vehicle emissions budget to be found adequate or approved by EPA prior to use for making conformity determinations. The budget must be used on or after the effective date of EPA’s adequacy finding or approval.

2) *Methods / Modeling:*

Latest Planning Assumptions — Section 93.110 specifies that conformity determinations must be based upon the most recent planning assumptions in force at the time the conformity analysis begins. This is defined as “the point at which the MPO begins to model the impact of the proposed transportation plan or TIP on travel and/or emissions. New data that becomes available after an analysis begins is required to be used in the conformity determination only if a significant delay in the analysis has occurred, as determined through interagency consultation” (EPA, 2010b).

Latest Emissions Models — Section 93.111 requires that the latest emission estimation models specified for use in SIPs must be used for the conformity analysis. EPA has approved EMFAC2017 for conformity use on August 15, 2019 and the final rule started the two-year grace period to transition to the new emissions model for use in conformity demonstrations. Therefore, EMFAC2014 continued to be used in this conformity analysis as documented in Chapter 3. EPA issued a federal register notice on December 14, 2015, formally approving EMFAC2014 for use in conformity determinations. On November 20, 2019, California Air Resources Board (CARB) released “EMFAC Off-Model Adjustment Factors to Account for the SAFE Vehicles Rule Part One” for use in regional conformity analyses. On March 12, 2020, EPA concurred on the use of CARB’s EMFAC off-model adjustment factors in conformity demonstrations. On April 30, EPA and NHTSA published SAFE Vehicles Rule for Model Years 2021-2026 Passenger Cars and Light Trucks (Final SAFE Rule) rolling back federal fuel economy standards. On June 26, 2020, CARB issued a public notice stating that EMFAC adjustments released in November continue to be suitable for conformity purposes. On March 14, EPA issued a final decision rescinding its 2019 waiver withdrawal, therefore EMFAC adjustments will no longer required for regional conformity analyses (CARB guidance still pending at this time). Therefore, the Conformity Analysis for the 2023 FTIP and 2022 RTP does not include SAFE Rule adjustments.

3) *Timely Implementation of TCMs* — Section 93.113 provides a detailed description of the steps necessary to demonstrate that the TIP/RTP are providing for the timely implementation of TCMs, as well as demonstrate that the plan and/or program is not interfering with this implementation. TCM documentation is included in Chapter 4 of the Conformity Analysis.

4) *Consultation* — Section 93.105 requires that the conformity determination be made in accordance with the consultation procedures outlined in the Federal regulations. These include:

- MPOs are required to provide reasonable opportunity for consultation with State air agencies, local air quality and transportation agencies, the USDOT and EPA (Section 93.105(a)(1)).
- MPOs are required to establish a proactive public involvement process, which provides opportunity for public review and comment prior to taking formal action on a conformity determination (Section 93.105(e)).

The TIP, RTP, and corresponding conformity determinations are prepared by each MPO. Copies of the draft documents are provided to member agencies and others, including FHWA, Federal Transit Administration (FTA), EPA, Caltrans, CARB, and the Air District for review. The conformity analysis is required to be publicly available and an opportunity for public review and comment is provided. TCAG adopted consultation process and policy for conformity analysis includes a 30-day comment period (55-day for the RTP) followed by a public meeting.

C. AIR QUALITY DESIGNATIONS APPLICABLE TO THE SAN JOAQUIN VALLEY

The conformity regulation (section 93.102) requires documentation of the applicable pollutants and precursors for which EPA has designated the area nonattainment or maintenance. In addition, the nonattainment or maintenance area and its boundaries should be described.

TCAG is located in the federally designated San Joaquin Valley Air Basin. The borders of the basin are defined by mountain and foothill ranges to the east and west. The northern border is consistent with the county line between San Joaquin and Sacramento Counties. The southern border is less defined, but is roughly bounded by the Tehachapi Mountains and, to some extent, the Sierra Nevada range. The Conformity Analysis for the 2023 FTIP and 2022 RTP includes analyses of existing and future air quality impacts for each applicable pollutant.

The San Joaquin Valley is currently designated as nonattainment for the National Ambient Air Quality Standard (NAAQS) for 8-hour ozone (revoked 1997, 2008 and 2015 standards), particulate matter under 2.5 microns in diameter (PM_{2.5}) (1997, 2006 and 2012 standards); and has a maintenance plan for particulate matter under 10 microns in diameter (PM-10). Note that the urbanized/metropolitan areas of Kern, Fresno, Stanislaus and San Joaquin Counties have attained the CO standard and maintained attainment for 20 years. In accordance with Section 93.102(b)(4), conformity requirements for the CO standard stop applying 20 years after EPA approves an attainment redesignation request or as of June 1, 2018. Therefore, future conformity analyses no longer include a CO conformity demonstration.

State Implementation Plans have been prepared to address ozone, PM-10 and PM_{2.5}:

- The 2016 Ozone Plan (2008 standard) was adopted by the Air District on June 16, 2016, and subsequently adopted by ARB on July 21, 2016. EPA found the new ozone budgets adequate on June 29, 2017 (effective July 14, 2017). In response to recent court decisions regarding the baseline RFP year, ARB adopted the revised 2008 ozone conformity budgets as part of the *2018 Updates to the California State Implementation Plan* (2018 SIP Update) on October 25, 2018. EPA approved the 2016 Ozone Plan and the budgets on March 25, 2019.

The 2007 PM-10 Maintenance Plan (as revised in 2015) was approved by EPA on July 8, 2016 (effective September 30, 2016).

- The 2016 PM_{2.5} Plan and portions of the 2018 PM_{2.5} Plan (2012 Standard, moderate) was approved by EPA on November 26, 2021 (effective December 27, 2021).
- The 2018 PM_{2.5} Plan was partially approved by EPA on July 22, 2020 (effective as of publication) inclusive of the revised conformity budgets and trading mechanism for the 2006 24-hr PM_{2.5} standard. Then on November 26, 2021, EPA partially disapproved the original SIP submittal dealing with 1997 annual PM_{2.5} nonattainment. In response, CARB submitted a 2021 revision to the 2018 PM_{2.5} Plan demonstrating attainment by 2023. On December 29, 2021, EPA proposed approval of the SIP elements and conformity budgets

that pertain to the 2012 annual PM_{2.5} serious area requirements (final action expected by end of the year). Then on January 28, 2022, EPA approved 2018 PM_{2.5} Plan portion dealing with the 1997 24-hour PM_{2.5} standard and determined that the SJV attained the standard by the December 31, 2020 deadline (effective February 28, 2022). On February 10, 2022, EPA found the 1997 annual PM_{2.5} budgets for attainment year 2023 adequate, effective February 25, 2022. It is expected that EPA will act on the remaining SIP elements related to annual 1997 PM_{2.5} nonattainment by end of the year including the trading mechanism.

EPA's March 2015 final rule implementing the 2008 Ozone Standard also revoked the 1997 Ozone Standard for transportation conformity purposes. This revocation became effective April 6, 2015. On February 16, 2018, the U.S. Court of Appeals ruled against parts of the EPA's 2015 Ozone Implementation Rule related to the revocation of the 1997 ozone standard and the relevant "anti-backsliding" requirements. However, according to the *Transportation Conformity Guidance for the South Coast II Court Decision*, nonattainment areas with existing 2008 ozone conformity budgets are not required to address the 1997 ozone standards for conformity purposes.

EPA designated the San Joaquin Valley nonattainment area for the 2008 Ozone Standard, effective July 20, 2012. Transportation conformity applies one year after the effective date (July 20, 2013). Federal approval for the eight SJV MPO's 2008 Ozone standard conformity demonstrations was received on July 8, 2013.

On June 4, 2018 EPA published final designations classifying the San Joaquin Valley as "extreme" nonattainment for 2015 ozone with an attainment deadline of 2038, effective August 3, 2018. Transportation conformity applies one year after the effective date or August 3, 2019. It is important to note that the 2015 ozone standard nonattainment area boundary for the San Joaquin Valley is exactly the same as the nonattainment area boundary for the 2008 ozone standard.

On November 13, 2009, EPA published Air Quality Designations for the 2006 24-hour PM_{2.5} standard, effective December 14, 2009. Nonattainment areas are required to meet the standard by 2014; transportation conformity began to apply on December 14, 2010. On January 20, 2016 EPA published *Designation of Areas for Air Quality Planning Purposes; California; San Joaquin Valley; Reclassification as Serious Nonattainment for the 2006 PM_{2.5} NAAQS* finalizing SJV reclassification to Serious nonattainment effective February 19, 2016. Nonattainment areas are required to meet the standard as expeditiously as practicable, but no later than December 31, 2019. It is important to note that the 2006 24-hour PM_{2.5} nonattainment area boundary for the San Joaquin Valley is exactly the same as the nonattainment area boundary for the 1997 annual PM_{2.5} standard.

EPA's nonattainment area designations for the new 2012 PM_{2.5} standards became effective on April 15, 2015. Conformity for a given pollutant and standard applies one year after the effective date (April 15, 2016). It is important to note that the 2012 PM_{2.5} standards nonattainment area boundary for the San Joaquin Valley are exactly the same as the nonattainment area boundary for the 1997 annual PM_{2.5} standard.

On July 29, 2016, EPA released its *Final Rule for Implementing National Ambient Air Quality Standards for Fine Particles*. According to the implementation rule, areas designated as nonattainment for the 1997 PM 2.5 standards, must continue to demonstrate conformity to these

standards until attainment. In the San Joaquin Valley, the 1997 standards (both 24-hour and annual) continue to apply.

D. CONFORMITY TEST REQUIREMENTS

The conformity (Section 93.109(c)–(k)) rule requires that either a table or text description be provided that details, for each pollutant and precursor, whether the interim emissions tests and/or the budget test apply for conformity. In addition, documentation regarding which emissions budgets have been found adequate by EPA, and which budgets are currently applicable for what analysis years is required.

Specific conformity test requirements established for the San Joaquin Valley nonattainment areas for ozone, and particulate matter are summarized below.

Section 93.124(d) of the 1997 Final Transportation Conformity regulation allows for conformity determinations for sub-regional emission budgets by MPOs if the applicable implementation plans (or implementation plan submission) explicitly indicates an intent to create such sub-regional budgets for the purpose of conformity. In addition, Section 93.124(e) of the 1997 rules states: “...if a nonattainment area includes more than one MPO, the implementation plan may establish motor vehicle emission budgets for each MPO, or else the MPOs must collectively make a conformity determination for the entire nonattainment area.” Each applicable implementation plan and estimate of baseline emissions in the San Joaquin Valley provides motor vehicle emission budgets by county, to facilitate county-level conformity findings.

OZONE (2008 AND 2015 STANDARDS)

The San Joaquin Valley currently violates both the 2008 and 2015 ozone standards; thus the conformity determination includes all corresponding analyses (see discussion under Air Quality Designations Applicable to the San Joaquin Valley above). Under the existing conformity regulations, regional emissions analyses for ozone areas must address nitrogen oxides (NO_x) and volatile organic compounds (VOC) precursors. It is important to note that in California, reactive organic gases (ROG) are considered equivalent to and are used in place of volatile organic compounds (VOC).

EPA’s final rule implementing the 2008 ozone standard also revoked the 1997 ozone standard for transportation conformity purposes. This revocation became effective April 6, 2015. Current federal guidance does not require 2008 ozone nonattainment areas to address the 1997 ozone standard for conformity purposes.

On March 25, 2019, EPA published a final rule approving the 2008 ozone conformity budgets and the *2018 Updates to the California State Implementation Plan*. The EPA final rule identified both reactive organic gases (ROG) and nitrogen oxides (NO_x) subarea budgets in tons per average summer day for each MPO in the nonattainment area.

In accordance with Section 93.109(c)(2) of the conformity rule and the 2015 Ozone Transportation Conformity Guidance, if a 2015 ozone nonattainment area has adequate or approved SIP budgets that address the 2008 ozone standard, it must use the budget test until new 2015 ozone standard budgets are found adequate or approved. It is important to note that the boundaries for the 2015 ozone standard and 2008 ozone standard are identical. In addition, the 2015 Ozone Implementation Rule did not revoke 2008 standard requirements. Consequently, for this conformity analysis, the SJV MPOs will conduct demonstrations for both 2008 and 2015 ozone standards using subarea emissions budgets as established in the *2018 Updates to the California State Implementation Plan*.

The conformity budgets from Table 1 of the March 25, 2019 Federal Register are provided in Table 1-1 below. These budgets will be used to compare to emissions resulting from the 2023 FTIP and the 2022 RTP.

Table 1-1:
On-Road Motor Vehicle 2008 and 2015 Ozone Standard Emissions Budgets
 (summer tons/day)

County	2020		2023		2026		2029		2031	
	ROG	NOx	ROG	NOx	ROG	NOx	ROG	NOx	ROG	NOx
Fresno	6.7	23.9	5.5	14.1	4.9	13.2	4.5	12.4	4.2	12.1
Kern (SJV)	5.4	20.9	4.5	14.5	4.2	14.4	4.0	14.3	3.9	14.3
Kings	1.2	4.5	1.0	2.7	0.9	2.6	0.8	2.6	0.8	2.6
Madera	1.5	4.3	1.1	2.7	1.0	2.5	0.9	2.4	0.8	2.3
Merced	2.2	8.8	1.7	6.0	1.5	5.9	1.3	5.6	1.2	5.4
San Joaquin	4.7	11.2	3.9	7.4	3.5	7.0	3.1	6.6	2.8	6.3
Stanislaus	3.1	8.8	2.6	5.6	2.2	4.9	2.0	4.5	1.8	4.3
Tulare	3.0	7.6	2.4	4.6	2.1	4.0	1.8	3.7	1.7	3.5

^(a) Note that 2008 ozone budgets were established by rounding up each county's emissions totals to the nearest tenth of a ton.

PM-10

The 2007 PM-10 Maintenance Plan (as revised in 2015) was approved by EPA on July 8, 2016 (effective September 30, 2016), which contains motor vehicle emission budgets for PM-10 and NOx, as well as a trading mechanism. Motor vehicle emission budgets are established based on average annual daily emissions. The motor vehicle emissions budget for PM-10 includes regional re-entrained dust from travel on paved roads, vehicular exhaust, travel on unpaved roads, and road construction. The conformity budgets from Table 2 of the August 12, 2016 Federal Register are provided below and will be used to compare emissions for each analysis year.

The PM-10 SIP allows trading from the motor vehicle emissions budget for the PM-10 precursor NOx to the motor vehicle emissions budget for primary PM-10 using a 1.5 to 1 ratio. The trading mechanism allows the agencies responsible for demonstrating transportation conformity in the San

Joaquin Valley to supplement the 2005 budget for PM-10 with a portion of the 2005 budget for NOx, and use these adjusted motor vehicle emissions budgets for PM-10 and NOx to demonstrate transportation conformity with the PM-10 SIP for analysis years after 2005. As noted above, EPA approved the 2007 PM-10 Maintenance Plan (with minor technical corrections to the conformity budgets) on July 8, 2016, which includes continued approval of the trading mechanism.

The trading mechanism will be used only for conformity analyses for analysis years after 2005. To ensure that the trading mechanism does not impact the ability to meet the NOx budget, the NOx emission reductions available to supplement the PM-10 budget shall only be those remaining after the NOx budget has been met.

**Table 1-2:
On-Road Motor Vehicle PM-10 Emissions Budgets**
(tons per average annual day)

County	2020 ^(b)	
	PM-10	NOx
Fresno	7.0	25.4
Kern ^(a)	7.4	23.3
Kings	1.8	4.8
Madera	2.5	4.7
Merced	3.8	8.9
San Joaquin	4.6	11.9
Stanislaus	3.7	9.6
Tulare	3.4	8.4

^(a)Kern County subarea includes only the portion of Kern County within the San Joaquin Valley Air Basin.

^(b)Note that EPA did not take action on the 2005 budgets of the 2007 PM10 Maintenance Plan (as revised in 2015). These budgets are not in the timeframe of this conformity analysis.

PM2.5

EPA and FHWA have indicated that areas violating both the annual and 24-hour standards for PM2.5 must address all standards in the conformity determination. The San Joaquin Valley currently violates both the 1997 annual and 24-hour and 2012 annual PM2.5 standards and the 2006 24-hour PM2.5 standards; thus the conformity determination includes all corresponding analyses (see discussion under Air Quality Designations Applicable to the San Joaquin Valley above).

The 2016 PM2.5 Plan addressing moderate area requirements for the 2012 PM2.5 standard was adopted by the San Joaquin Valley Air District on September 15, 2016. The 2018 PM2.5 Plan addressing 1997, 2006 and 2012 PM2.5 standards was adopted by the San Joaquin Valley Air District on November 15, 2018 and California Air Resources Board on January 24, 2019, and subsequently submitted for EPA review together with the 2016 Moderate PM2.5 Plan and reclassification to serious request. On July 22, 2020, EPA published final rule approving SIP

elements that pertain to 2006 24-hour PM_{2.5} standard serious area nonattainment (effective as of publication). On December 29, 2021, EPA proposed approval of the SIP elements and conformity budgets that pertain to the 2012 annual PM_{2.5} standards (final action expected by end of the year). Then on January 28, 2022, EPA approved 2018 PM_{2.5} Plan portion dealing with the 1997 24-hour PM_{2.5} standard and determined that the SJV attained the standard by the December 31, 2020 deadline (effective February 28, 2022).

While EPA partially disapproved the original SIP submittal dealing with 1997 annual PM_{2.5} nonattainment on November 26, 2021, CARB has submitted the 2021 revision to the 2018 PM_{2.5} Plan in the same month demonstrating attainment by 2023. On February 10, 2022, EPA found the 1997 annual PM_{2.5} budgets adequate, effective February 25, 2022. It is expected that EPA will act on the remaining SIP elements related to the annual 1997 PM_{2.5} standards, including the trading mechanism, by end of the year. Therefore, this analysis includes conformity tests to all new budgets contained in the 2018 PM_{2.5} Plan and its 2021 revision.

Given that EPA may act on the remaining components of the 2018 PM_{2.5} Plan prior to federal approval of the 2022 RTP and 2023 FTIP conformity analysis, the new transportation conformity budgets addressing the 2012 serious PM_{2.5} standards are also included in this conformity analysis (“upcoming budget test”).

1997 (24-hour and annual) Standards

The 2018 PM_{2.5} Plan contains motor vehicle emission budgets for PM_{2.5} and NO_x established based on average annual daily emissions, as well as a trading mechanism. The motor vehicle emissions budget for PM_{2.5} includes directly emitted PM_{2.5} motor vehicle emissions from tailpipe, brake wear and tire wear. VOC, SO_x, ammonia, and dust (from paved roads, unpaved roads, and road construction) were found to be insignificant and not included in the motor vehicle emission budgets for conformity purposes. The applicable conformity budgets are provided in Table 1-3

for the 1997 annual and 24-hour PM2.5 standards and will be used to compare emissions resulting from the 2023 FTIP and the 2022 RTP.

**Table 1-3:
On-Road Motor Vehicle 1997 (24-hour and annual) PM2.5 Standard Emissions Budgets
(tons per average annual day)**

County	2020		2023	
	PM2.5	NOx	PM2.5	NOx
Fresno	0.9	25.3	0.8	15.1
Kern (SJV)	0.8	23.3	0.7	13.3
Kings	0.2	4.8	0.2	2.8
Madera	0.2	4.2	0.2	2.5
Merced	0.3	8.9	0.3	5.3
San Joaquin	0.6	11.9	0.6	7.6
Stanislaus	0.4	9.6	0.4	6.1
Tulare	0.4	8.5	0.4	5.2

The 2018 PM2.5 SIP includes a trading mechanism that allows trading from the motor vehicle emissions budget for the PM2.5 precursor NOx to the motor vehicle emissions budget for primary PM2.5 using a 6.5 to 1 ratio on an annual basis and a 2 to 1 ratio on a 24-hr basis. The trading mechanism allows the agencies responsible for demonstrating transportation conformity in the San Joaquin Valley to supplement the applicable budget for PM2.5 with a portion of the applicable corresponding budget for NOx and use these adjusted motor vehicle emissions budgets for PM2.5 and NOx to demonstrate transportation conformity with the 2018 PM2.5 SIP. To ensure that the trading mechanism does not impact the ability to meet the NOx budget, the NOx emission reductions available to supplement the PM2.5 budget shall only be those remaining after the NOx budget has been met. The trading mechanism for the 24-hour annual PM2.5 was approved by EPA on January 28, 2022. Final action on the trading mechanism for the 1997 annual PM2.5 standard is expected by end of the year.

2012 Annual PM2.5 Standard (Moderate)

On November 26, 2021, EPA published final approval of the moderate area SIP budgets for the 2012 PM2.5 standard contained in the 2016 Moderate Area PM2.5 Plan and portions of the 2018 PM2.5 plan that pertain to the moderate requirements for the 2012 PM2.5 standard. The approval also included reclassification to serious. On December 29, 2021, EPA proposed approval of the SIP elements and conformity budgets that pertain to the 2012 annual PM2.5 serious area requirements (final action expected by end of the year). Until the new 2012 serious area PM2.5 standard budgets are found adequate or approved, the SJV will conduct conformity determination for the 2012 annual PM2.5 standard using budgets established in the 2018 PM2.5 Plan for moderate nonattainment. The conformity budgets from the November 26, 2021 Federal Register are provided in Table 1-4 will be used to compare emissions resulting from 2023 FTIP and 2022 RTP.

**Table 1-4:
On-Road Motor Vehicle 2012 (annual) PM2.5 Standard Emissions Budgets (Moderate)**
(tons per average annual day)

County	2022	
	PM2.5	NOx
Fresno	0.9	21.2
Kern (SJV)	0.8	19.4
Kings	0.2	4.1
Madera	0.2	3.5
Merced	0.3	7.6
San Joaquin	0.6	10.0
Stanislaus	0.4	8.1
Tulare	0.4	6.9

The 2018 PM2.5 SIP includes a trading mechanism that allows trading from the motor vehicle emissions budget for the PM2.5 precursor NOx to the motor vehicle emissions budget for primary PM2.5 using a 6.5 to 1 ratio on an annual basis. The trading mechanism allows the agencies responsible for demonstrating transportation conformity in the San Joaquin Valley to supplement the applicable budget for PM2.5 with a portion of the applicable corresponding budget for NOx and use these adjusted motor vehicle emissions budgets for PM2.5 and NOx to demonstrate transportation conformity with the 2018 PM2.5 SIP.

2006 24-Hour PM2.5 Standard

The 2018 PM2.5 Plan addressing 1997, 2006 and 2012 PM2.5 standards was adopted by the San Joaquin Valley Air District on November 15, 2018, and California Air Resources Board on January 24, 2019. On March 27, EPA published a proposed rule approving portions of the 2018 PM2.5 Plan, including the 2006 PM2.5 conformity budgets and trading mechanism. Final rule on sections that pertain to 2006 24-hour PM2.5 standard serious area nonattainment was published on July 22, 2020. Therefore, the conformity analysis for the 2021 FTIP and 2018 RTP incorporates new transportation conformity budgets and the new attainment year of 2024 for 2006 24-hour PM2.5 standards.

The 2018 PM2.5 Plan for the 2006 PM2.5 standard contains motor vehicle emission budgets for PM2.5 and NOx established based on average winter daily emissions, as well as a trading mechanism. The motor vehicle emissions budget for PM2.5 includes directly emitted PM2.5 motor vehicle emissions from tailpipe, brake wear and tire wear. VOC, SOx, ammonia, and dust (from paved roads, unpaved roads, and road construction) were found to be insignificant and not included in the motor vehicle emission budgets for conformity purposes. The conformity budgets from the March 27, 2020 Federal Register, Table 14 are provided in Table 1-5 below and will be used to compare emissions resulting from the 2023 FTIP and the 2022 RTP.

Table 1-5
On-Road Motor Vehicle 2006 24-Hour PM2.5 Standard Emissions Budgets
 (tons per average winter day)

County	2020		2023		2024	
	PM2.5	NOx	PM2.5	NOx	PM2.5	NOx
Fresno	0.9	25.9	0.8	15.5	0.8	15.0
Kern (SJV)	0.8	23.8	0.7	13.6	0.7	13.4
Kings	0.2	4.9	0.2	2.9	0.2	2.8
Madera	0.2	4.4	0.2	2.6	0.2	2.5
Merced	0.3	9.1	0.3	5.5	0.3	5.3
San Joaquin	0.6	12.3	0.6	7.9	0.6	7.6
Stanislaus	0.4	9.8	0.4	6.2	0.4	6.0
Tulare	0.4	8.7	0.4	5.3	0.4	5.1

The 2018 PM2.5 SIP includes a trading mechanism that allows trading from the motor vehicle emissions budget for the PM2.5 precursor NOx to the motor vehicle emissions budget for primary PM2.5 using a 2 to 1 ratio on a 24-hour, wintertime basis. The trading mechanism allows the agencies responsible for demonstrating transportation conformity in the San Joaquin Valley to supplement the applicable budget for PM2.5 with a portion of the applicable corresponding budget for NOx, and use these adjusted motor vehicle emissions budgets for PM2.5 and NOx to demonstrate transportation conformity with the PM2.5 SIP.

“Upcoming Budget Test” for the 2012 Annual PM2.5 Standards (Serious)

The 2018 PM2.5 Plan contains motor vehicle emission budgets for PM2.5 and NOx established based on average annual daily emissions, as well as a trading mechanism. The motor vehicle emissions budgets for serious PM2.5 includes directly emitted PM2.5 motor vehicle emissions from tailpipe, brake wear and tire wear. VOC, SOx, ammonia, and dust (from paved roads, unpaved roads, and road construction) were found to be insignificant and not included in the motor vehicle emission budgets for conformity purposes. On December 29, 2021, EPA proposed approval of the SIP elements and conformity budgets that pertain to the 2012 annual PM2.5 standards, serious area requirements (final action expected by end of the year). The 2018 PM2.5 SIP conformity budgets from the December 29, 2021 Federal Register are provided in Table 1-6 below to address serious nonattainment requirements. These budgets will be used to compare emissions resulting from the 2023 FTIP and the 2022 RTP. Should EPA act on these budgets prior to federal approval of this conformity analysis, the budgets below will apply.

**Table 1-6:
On-Road Motor Vehicle 2012 (annual) PM2.5 Standard Emissions Budgets (Serious)**
(tons per average annual day)

County	2022		2025	
	PM2.5	NOx	PM2.5	NOx
Fresno	0.9	21.2	0.8	14.3
Kern (SJV)	0.8	19.4	0.8	12.8
Kings	0.2	4.1	0.2	2.7
Madera	0.2	3.5	0.2	2.3
Merced	0.3	7.6	0.3	5.0
San Joaquin	0.6	10.0	0.6	6.9
Stanislaus	0.4	8.1	0.4	5.6
Tulare	0.4	6.9	0.4	4.7

The 2018 PM2.5 SIP includes a trading mechanism that allows trading from the motor vehicle emissions budget for the PM2.5 precursor NOx to the motor vehicle emissions budget for primary PM2.5 using a 6.5 to 1 ratio on an annual basis. The trading mechanism allows the agencies responsible for demonstrating transportation conformity in the San Joaquin Valley to supplement the applicable budget for PM2.5 with a portion of the applicable corresponding budget for NOx, and use these adjusted motor vehicle emissions budgets for PM2.5 and NOx to demonstrate transportation conformity with the 2018 PM2.5 SIP. To ensure that the trading mechanism does not impact the ability to meet the NOx budget, the NOx emission reductions available to supplement the PM2.5 budget shall only be those remaining after the NOx budget has been met.

E. ANALYSIS YEARS

The conformity regulation (Section 93.118[b] and [d]) requires documentation of the years for which consistency with motor vehicle emission budgets must be shown. In addition, any interpolation performed to meet tests for years in which specific analysis is not required need to be documented.

For the selection of the horizon years, the conformity regulation requires: (1) that if the attainment year is in the time span of the transportation plan, it must be modeled; (2) the last year forecast in the transportation plan must be a horizon year; and (3) horizon years may not be more than ten years apart. In addition, the conformity regulation requires that conformity must be demonstrated for each year for which the applicable implementation plan specifically establishes motor vehicle emission budgets.

Section 93.118(b)(2) clarifies that when a maintenance plan has been submitted, conformity must be demonstrated for the last year of the maintenance plan and any other years for which the maintenance plan establishes budgets in the time frame of the transportation plan. Section 93.118(d)(2) indicates that a regional emissions analysis may be performed for any years, the

attainment year, and the last year of the plan’s forecast. Other years may be determined by interpolating between the years for which the regional emissions analysis is performed.

Section 93.118(d)(2) indicates that the regional emissions analysis may be performed for any years in the time frame of the transportation plan provided they are not more than ten years apart and provided the analysis is performed for the attainment year (if it is in the time frame of the transportation plan) and the last year of the plan’s forecast period. Emissions in years for which consistency with motor vehicle emissions budgets must be demonstrated, as required in paragraph (b) of this section (i.e., each budget year), may be determined by interpolating between the years for which the regional emissions analysis is performed. Table 1-7 below provides a summary of conformity analysis years that apply to this conformity analysis.

**Table 1-7:
San Joaquin Valley Conformity Analysis Years**

Pollutant	Budget Years¹	Attainment/ Maintenance Year	Intermediate Years	RTP Horizon Year
2008 and 2015 Ozone	2020/2023/2026/2029	2031/2037 ²	NA	2046
PM-10	NA	2020	2022/2029/2037	2046
1997 24-hour PM2.5	NA	2020	2023/2029/2037	2046
1997 Annual PM2.5	NA	2023	2029/2037	2046
2012 Annual PM2.5 (moderate)	NA	2022	2025/2029/2037	2046
2006 24-hour PM2.5	2020/2023	2024	2031/2037	2046
Upcoming 2012 Annual PM2.5 (serious)	2022	2025	2029/2037	2046

¹Budget years that are not in the time frame of the transportation plan/conformity analysis are not included as analysis years (e.g., 2020), although they may be used to demonstrate conformity. Some of the early RFP year budgets were not acted on by EPA since they were not applicable.

²2031 is the attainment year for the 2008 ozone standard. 2037 is the attainment year for the 2015 ozone standard.

For the 2008 ozone standard, the San Joaquin Valley has been classified as an extreme nonattainment area with an attainment date of July 20, 2032. In accordance with the March 2015 *Implementation of the 2008 National Ambient Air Quality Standards for Ozone: State Implementation Plan Requirements* final rule, the attainment year of 2031 must be modeled. When using the budget test, the attainment year of the 2008 ozone standard must be analyzed (i.e. 2031).

For the 2015 ozone standard, the San Joaquin Valley has been classified as an extreme nonattainment area with an attainment date of August 3, 2038. In accordance with the December 2018 final rule, *Implementation of the 2015 National Ambient Air Quality Standards for Ozone: Nonattainment Area State Implementation Plan Requirements*, the attainment year of 2037 must be modeled. When using the budget test, the attainment year of the 2015 ozone standard must be analyzed (i.e. 2037).

The Clean Air Act requires all states to attain the 1997 PM_{2.5} standards as expeditiously as practicable beginning in 2010, but by no later than April 5, 2010, unless EPA approves an attainment date extension. States must identify their attainment dates based on the rate of reductions from their control strategies and the severity of the PM_{2.5} problem. The 2018 PM_{2.5} SIP addresses attainment of the 1997 24-hour PM_{2.5} standard (serious) by 2020 and was approved by EPA on January 28, 2022 (effective February 28, 2022). The attainment year is not in the timeframe of this conformity analysis. On February 10, 2022, EPA found the serious area 1997 annual PM_{2.5} budgets for attainment year 2023 adequate (effective February 25, 2022). Therefore, attainment year 2023 must be modeled.

On January 20, 2016, EPA finalized reclassification of the San Joaquin Valley to Serious nonattainment for the 2006 24-hour PM_{2.5} Standard. On August 16, 2016, the 2012 PM_{2.5} Plan was approved by EPA, effective September 30, 2016, inclusive of new conformity budgets and trading mechanism for the 2006 24-hour PM_{2.5} standard with a requirement to attain the standard as expeditiously as practicable and no later than December 31, 2019. In 2019, CARB submitted an attainment deadline extension request as part of the 2018 PM_{2.5} Plan. Final rule on 2018 PM_{2.5} SIP sections that pertain to 2006 24-hour PM_{2.5} standard Serious area nonattainment was released on July 22, 2020. The attainment year of 2024 must be modeled.

On January 15, 2015, EPA classified the San Joaquin Valley as Moderate nonattainment for the 2012 PM_{2.5} Standards. On November 26, 2021, EPA issued final rule approving of the Moderate Area 2016 PM_{2.5} Plan, portions of the 2018 PM_{2.5} SIP pertaining to moderate nonattainment of the 2012 PM_{2.5} standards, and the reclassification request to serious nonattainment. The San Joaquin Valley 2018 PM_{2.5} Plan includes serious area budgets for the 2012 PM_{2.5} standards with an attainment deadline of 2025; therefore, the attainment year 2025 must be modeled.

CHAPTER 2: LATEST PLANNING ASSUMPTIONS AND TRANSPORTATION MODELING

The Clean Air Act states that “the determination of conformity shall be based on the most recent estimates of emissions, and such estimates shall be determined from the most recent population, employment, travel, and congestion estimates as determined by the MPO or other agency authorized to make such estimates.” On January 18, 2001, the USDOT issued guidance developed jointly with EPA to provide additional clarification concerning the use of latest planning assumptions in conformity determinations (USDOT, 2001).

According to the conformity regulation, the time the conformity analysis begins is “the point at which the MPO or other designated agency begins to model the impact of the proposed transportation plan or TIP on travel and/or emissions.” The conformity analysis and initial emissions modeling began in April 2021.

Key elements of the latest planning assumption guidance include:

- Areas are strongly encouraged to review and strive towards regular five-year updates of planning assumptions, especially population, employment and vehicle registration assumptions.
- The latest planning assumptions must be derived from the population, employment, travel and congestion estimates that have been most recently developed by the MPO (or other agency authorized to make such estimates) and approved by the MPO.
- Conformity determinations that are based on information that is older than five years should include written justification for not using more recent information. For areas where updates are appropriate, the conformity determination should include an anticipated schedule for updating assumptions.
- The conformity determination must use the latest existing information regarding the effectiveness of the transportation control measures (TCMs) and other implementation plan measures that have already been implemented.

TCAG uses the CUBE/VOYAGER (VMIP2) transportation model. The model was validated in 2017 for the 2015 base year. The latest planning assumptions used in the transportation model validation and Conformity Analysis is summarized in Table 2-1.

**Table 2-1:
Summary of Latest Planning Assumptions for the Tulare County Association of
Governments Conformity Analysis**

Assumption	Year and Source of Data (MPO action)	Modeling	Next Scheduled Update
Population	Base Year: Department of Finance (2015) Projections: Department of Finance (2021) Approved by TCAG Governing Board in July 2022.	This data is disaggregated to the TAZ level for input into CUBE/Voyager (VMIP2) for the base year validation.	New data from the Department of Finance is expected to be adopted by TCAG in 2026.
Employment	Base Year: Employment Development Department (2015), InfoUSA (2015), and Woods and Poole (2017) Projections: Employment Development Department (2021) and Caltrans (2019)	This data is disaggregated to the TAZ level for input into CUBE/Voyager (VMIP2) for the base year validation.	New data from the Employment Development Department, InfoUSA, and Woods and Poole is anticipated to be included in the next transportation model update in 2026.
Traffic Counts	Approximately 150 traffic counts were collected annually.	CUBE/Voyager (VMIP2) was validated using these traffic counts.	Traffic counts are updated continuously, if funds are available.
Vehicle Miles of Travel	The 2017 transportation model validation for the 2015 base year was approved by the TCAG Board in August 2018. New 2022 base year ABM validation expected to be approved by TCAG Board in 2026.	Cube/Voyager (VMIP2) is the transportation model used to estimate VMT in Tulare County. 2015 HPMS data was used for validation.	VMT is an output of the transportation model. VMT is affected by the TIP/RTP project updates and is included in each new conformity analysis.

Assumption	Year and Source of Data (MPO action)	Modeling	Next Scheduled Update
Speeds	<p>The 2017 transportation model validation was based on Caltrans Performance Measurement System (PeMS), in addition to TCAG survey data of peak and off-peak speeds, and a TCAG Travel Time Study for SR 198 & 190.</p> <p>Speed distributions were updated in EMFAC2014, using methodology approved by ARB and with information from the transportation model.</p>	<p>Cube/Voyager (VMIP2) includes a feedback loop that assures congested speeds are consistent with travel speeds.</p> <p>EMFAC2014</p>	<p>A speed study will be conducted every five years, if adequate funds are available.</p>

A. SOCIOECONOMIC DATA

POPULATION, EMPLOYMENT AND LAND USE

The conformity regulation requires documentation of base case and projected population, employment, and land use used in the transportation modeling. USDOT/EPA guidance indicates that if the data is more than five years old, written justification for the use of older data must be provided. In addition, documentation is required for how land use development scenarios are consistent with future transportation system alternatives, and the reasonable distribution of employment and residences for each alternative.

Supporting Documentation:

POPULATION, EMPLOYMENT AND LAND USE

The conformity regulation requires documentation of base case and projected population, employment, and land use used in the transportation modeling. USDOT/EPA guidance indicates that if the data is more than five years old, written justification for the use of older data must be provided. In addition, documentation is required for how land use development scenarios are consistent with future transportation system alternatives, and the reasonable distribution of employment and residences for each alternative.

MPO	Transportation Model	Base Year Validation	Year Completed	Population	Employment	Traffic Counts	Speeds	Periods	Feedback Loop
TCAG	CUBE (VMIP2)	2015 Projections -->	2017	DOF 2015 DOF 2017	EDD 2015 / InfoUSA 2015 DOF 2017	2015-2016	Caltrans PeMS/TCAG 2014-2016	AM/MD/PM/OP	Yes

Population: TCAG utilized the California Department of Finance (DOF) as the primary county-level forecasting reference for a base population and future projections, to be within 3% of the latest DOF projections required by SB375. A linear growth rate with the population interpolated for each year was applied using the DOF forecasts through the planning horizon year of 2042.

Employment: Employment estimates and projections used included the California Employment Development Department (EDD), InfoUSA, and Woods & Poole. Control totals were derived from these projections and used in the development of Envision Tomorrow scenarios and travel demand model socio-economic detail inputs.

The EDD data established control totals for the base and future years of employment and employment categories. Next, the InfoUSA data provided geocoded information to distribute the information geographically. InfoUSA data was adjusted to EDD's control totals and reclassified to fit the categories of the model. This allowed for the distribution of employees to the Traffic Analysis Zones (TAZ). To test proportions and make adjustments where needed between EDD and InfoUSA, Woods & Poole was used, which provides historical employment data. Woods & Poole also helped complete the InfoUSA dataset, as InfoUSA has some gaps in its data in regards to employers not required to pay taxes (schools, fire stations, post offices, etc.),

Land Use: Land use and socioeconomic data was derived from the above sources and joined to the TAZ level for determining trip generation, vehicle availability, and mode choice. The housing forecasts are based on DOF data for the base year, and projected using a Planning Center Study from 2012 conducted for the San Joaquin Valley, which included population, birth rates, net migration, housing, construction, and school enrollment. A linear growth rate for households was then determined by adjusting to a persons per household ratio that was reasonable based on Planning Center study projections.

Future land use patterns were created using a GIS plugin called Envision Tomorrow, a suite of scenario planning tools that tests different land use and transportation options. Utilizing input and coordination with local agencies, parcel data information, city and county general plans, zoning maps, projected outputs in housing and population from the DOF and the Planning Center, and projected employment from the EDD, InfoUSA, and Woods & Poole, scenarios were built to spatially represent alternative future growth patterns. This allowed for a deeper analysis into the study area, allowing the user to measure the scenario's influence on density, land use, housing, sustainability, transportation, and economic conditions. Although Envision Tomorrow was not yet used to measure VMT, it was consistent with population and employment projections, and produced richer metrics for comparison amongst scenarios.

B. TRANSPORTATION MODELING

The San Joaquin Valley Metropolitan Planning Organizations (MPOs) utilize the CUBE Transportation and Land Use Modeling Suite software (Citilabs, Inc.). Most of the Valley MPO regional traffic models consist of traditional four-step traffic forecasting models. Some are transitioning to activity-based models implemented on the CUBE platform. The four-step models use land use, socioeconomic, and road network data to estimate facility-specific roadway traffic volumes. Each MPO model covers the appropriate county area, which is then divided into hundreds

or thousands of individual traffic analysis zones (TAZs). In addition the model roadway networks include thousands of nodes and links. Link types include freeway, freeway ramp, other State route, expressway, arterial, collector, and local collector. Current and future-year road networks were developed considering local agency circulation elements of their general plans, traffic impact studies, capital improvement programs, and the State Transportation Improvement Program. The models use equilibrium, a capacity sensitive assignment methodology, and the data from the model for the emission estimates differentiates between peak and off-peak volumes and speeds. In addition, the model is reasonably sensitive to changes in time and other factors affecting travel choices. The results from model validation/calibration were analyzed for reasonableness and compared to historical trends.

Specific transportation modeling requirements in the conformity regulation are summarized below, followed by a description of how the TCAG transportation modeling methodology meets those requirements.

Trip Generation: this first step calculates person or truck trip ends using trip generation rates established during model calibration. This step also uses demographics to determine household passenger vehicle availability.

Trip Distribution: this step estimates how many trips travel from one zone to any other zone. The distribution is based on the number of trip ends generated in each of the two zones, and on factors that relate the likelihood of travel between any two zones to the impedance between the two zones such as distance, cost, time, and varies by accessibility to passenger vehicles, transit, and non-vehicular modes.

Mode Choice: this step uses demographics and the comparison of distance, time, cost, and access to between modes to estimate the proportions of the total person trips using drive-alone or shared-ride passenger auto, transit, walk, or bike for travel between zones.

Trip Assignment: in the final step, vehicle trips or transit trips from one zone to another zone are assigned to specific travel routes between the zones on the network.

TRAFFIC COUNTS

The conformity regulation requires documentation that a network-based travel model is in use that is validated against observed counts for a base year no more than 10 years before the date of the conformity determination. Document that the model results have been analyzed for reasonableness and compared to historical trends and explain any significant differences between past trends and forecasts (for per capita vehicle-trips, VMT, trip lengths mode shares, time of day, etc.).

Supporting Documentation:

The model was estimated and calibrated to reflect the base year travel conditions of 2015 and validated to the year of 2017, with 232 directional counts collected regionally between 2014 and 2016. Weekday traffic counts were compared to the model assigned volume for total vehicle trips. The overall Daily model/count ratio is 1.06.

Daily Model/Count by Functional Class		
Functional Class	M/C	# Locations
Freeway	1.01	4
Highway\Expressway	0.99	3
Arterial	0.77	224
Collector	NA	0

RMSE by Daily Volume Groups		
Count Volume	Guideline	Model
> 50,000	< 21%	14%
25,000 - 49,999	< 22%	27%
10,000 - 24,999	< 25%	31%
5,000 - 9,999	< 29%	46%
2,500 - 4,999	< 36%	55%
1,000 - 2,499	< 47%	72%
< 1,000	< 60%	182%

Daily Model/Count by Functional Class		
Functional Class	M/C	# Locations
Freeway	1.01	4
Highway\Expressway	0.99	3
Arterial	0.77	224
Collector	NA	0

RMSE by Daily Volume Groups		
Count Volume	Guideline	Model
> 50,000	< 21%	14%
25,000 - 49,999	< 22%	27%
10,000 - 24,999	< 25%	31%
5,000 - 9,999	< 29%	46%
2,500 - 4,999	< 36%	55%
1,000 - 2,499	< 47%	72%
< 1,000	< 60%	182%

Trip Making and Travel Patterns: Available 2010 Census Journey-to-Work data, 2010-2012 California Household Travel Survey (CHTS) data, and National Cooperative Highway Research Program (NCHRP) recommended trip rates were used to verify, and as needed, modify the TCAG model trip generation rates. The table below shows the resultant trips by purpose compared with the Caltrans survey data:

Purpose	Total (All Modes)	
	CHTS	Model
HBW	16%	14%
HBO	59%	61%
NHB	26%	24%
Total (All Purposes)	100%	100%

SPEEDS

The conformity regulation requires documentation of the use of capacity sensitive assignment methodology and emissions estimates based on a methodology that differentiates between peak and off-peak volumes and speeds, and bases speeds on final assigned volumes. In addition, documentation of the use of zone-to-zone travel impedances to distribute trips in reasonable agreement with the travel times estimated from final assigned traffic volumes. Where transit is a significant factor, document that zone-to-zone travel impedances used to distribute trips are used to model mode split. Finally, document that reasonable methods were used to estimate traffic speeds and delays in a manner sensitive to the estimated volume of travel on each roadway segment represented in the travel model.

Supporting Documentation:

The 2017 transportation model validation was based on Caltrans Performance Measurement System (PeMS), in addition to TCAG survey data of peak and off-peak speeds, and a TCAG Travel Time Study for SR 198 & 190.

The valley traffic models include a feedback loop that uses congested travel times as an input to the trip distribution step. The feedback loop ensures that the congested travel speeds used as input to the air pollution emission models are consistent with the travel speeds used throughout the traffic model process. The travel model is validated to counts using input average free flow speeds and common practice speed flow curves which are used to estimate congested speeds and travel times. Then, a feedback loop is implemented with the intent to ensure that the congested travel impedances (times) used for final traffic assignment and as input to the air quality analysis are consistent with the travel impedances used throughout the model process. The feedback loop is considered to converge when the travel times that result from the congested travel speeds after traffic assignment compare closely with the travel times used as input to the trip distribution process. Travel impedances from zone to zone are used to distribute trips to model mode split.

Through Iteris' iPeMS web-based software using "Big Data" from Here Corporation, speed limits, free flow speed, historical average speeds, and percentage of free flow, along with a time series report and confidence rate score on selected corridors, were available. TCAG used this data to help determine free flow speeds and common practice speed flow curves in the future.

TRANSIT

The conformity regulation requires documentation of any changes in transit operating policies and assumed ridership levels since the previous conformity determination. Document the use of the latest transit fares and road and bridge tolls.

Supporting Documentation:

As part of VMIP 2, the highway network was based on a true shape centerline file in a geodatabase and updated variables to reflect the master network from the RTP/SCS. The transit lines were also updated to match the more detailed highway network and are contained in the geodatabase. The benefits of this are more accurate mapping and distances, easy linkage and comparisons to speed

data, and inclusion of local streets for sub-TAZ level analysis. In addition, the GIS network contains many variables to complement those already part of the travel model network, including auto, HOV, transit, truck, bike, and walk accessibility designations. The transit assignment includes the following variables: transit networks, transit attributes (mode, operator, vehicle type), transit access links, fares, user classes, and transfer and wait rules. Higher frequency transit and infill developments lead to increased transit ridership in the future. The mode choice model reflects the household travel survey, as shown in the table below.

Drove Alone		Shared Ride 2		Shared Ride 3+		Transit		Walk		Bike		Other	
CHTS	Model	CHTS	Model	CHTS	Model	CHTS	Model	CHTS	Model	CHTS	Model	CHTS	Model
80%	81%	9%	8%	5%	7%	0.3%	0.8%	5%	3%	1%	1%	0%	0%
24%	25%	28%	30%	31%	30%	0.5%	1.5%	13%	8%	1%	1%	3%	4%
42%	40%	27%	26%	18%	17%	0.3%	0.9%	12%	13%	0%	2%	1%	0%
37%	37%	25%	26%	24%	23%	0.4%	1.2%	11%	9%	1%	2%	2%	2%

VALIDATION/CALIBRATION

The conformity regulation requires documentation that the model results have been analyzed for reasonableness and compared to historical trends and explain any significant differences between past trends and forecasts (for per capita vehicle-trips, VMT, trip lengths mode shares, time of day, etc.). In addition, documentation of how travel models are reasonably sensitive to changes in time, cost, and other factors affecting travel choices is required. The use of HPMS, or a locally developed count-based program or procedures that have been chosen to reconcile and calibrate the network-based travel model estimates of VMT must be documented.

Supporting Documentation:

The models were validated by comparing its estimates of base year traffic conditions with base year traffic counts. The base year validations meet standard criteria for replicating total traffic volumes on various road types and for percent error on links. The base year validation also meets standard criteria for percent error relative to traffic counts on groups of roads (screen-lines) throughout each county.

For Serious and above nonattainment areas, transportation conformity guidance, Section 93.122(b)(3) of the Conformity Regulation states:

Highway Performance Monitoring System (HPMS) estimates of vehicle miles traveled (VMT) shall be considered the primary measure of VMT within the portion of the nonattainment or maintenance area and for the functional classes of roadways included in HPMS, for urban areas which are sampled on a separate urban area basis. For areas with network-based travel models, a factor (or factors) may be developed to reconcile and calibrate the network-based travel model estimates of VMT in the base year of its validation to the HPMS estimates for the same period. These factors may then be applied to model estimates of future VMT. In this factoring process, consideration will be given to differences between HPMS and network-based travel models, such as differences in the facility coverage of the HPMS and the modeling network description. Locally developed count-based programs and other departures from these procedures are permitted subject to the interagency consultation procedures.

As shown in the table below, the TCAG regional model forecasts of VMT for the 2015 base year validation were within 3% of the relevant year of Caltrans Highway Performance Monitoring System (HPMS) data as tabulated in the Assembly of Statistical Reports for the selected base year.

Evaluation			
Criterion	HPMS	Model	% Deviation
+3%	10,062,200	10,336,790	2.7%

FUTURE NETWORKS

The conformity regulation requires that a listing of regionally significant projects and federally-funded non-regionally significant projects assumed in the regional emissions analysis be provided in the conformity documentation. In addition, all projects that are exempt must also be documented.

§93.106(a)(2)ii and §93.122(a)(1) requires that regionally significant additions or modifications to the existing transportation network that are expected to be open to traffic in each analysis year be documented for both Federally funded and non-federally funded projects (see Appendix B).

§93.122(a)(1) requires that VMT for non-regionally significant Federal projects is accounted for in the regional emissions analysis. It is assumed that all SJV MPOs include these projects in the transportation network (see Appendix B).

§93.126, §93.127, §93.128 require that all projects in the TIP/RTP that are exempt from conformity requirements or exempt from the regional emissions analysis be documented. In addition, the reason for the exemption (Table 2, Table 3, traffic signal synchronization) must also be documented (see Appendix B). It is important to note that the CTIPs exemption code is provided in response to FHWA direction.

Supporting Documentation:

The build highway networks include qualifying projects based on the 2021 FTIP and the 2018 RTP. Not all of the street and freeway projects included in the TIP/RTP qualify for inclusion in the highway network. Projects that call for study, design, or non-capacity improvements are not included in the networks. When these projects result in actual facility construction projects, the associated capacity changes are coded into the network as appropriate. Since the networks define capacity in terms of number of through traffic lanes, only construction projects that increase the lane-miles of through traffic are included.

Generally, Valley MPO highway networks include all roadways included in the county or cities classified system. These links typically include all freeways plus expressways, arterials, collectors and local collectors. Highway networks also include regionally significant planned local improvements from Transportation Impact Fee Programs and developer funded improvements required to mitigate the impact of a new development.

Small-scale local street improvements contained in the TIP/RTP are not coded on the highway network. Although not explicitly coded, traffic on collector and local streets is simulated in the models by use of abstract links called “centroid connectors”. These represent local streets and driveways which connect a neighborhood to a regionally-significant roadway. Model estimates of centroid connector travel are reconciled against HPMS estimates of collector and local street travel.

C. TRAFFIC ESTIMATES

A summary of the population, employment, and travel characteristics for the TCAG transportation modeling area for each scenario in the Conformity Analysis is presented in Table 2-2.

**Table 2-2:
Traffic Network Comparison for Horizon Years Evaluated in Conformity Analysis**

Horizon Year	Total Population	Employment	Average Weekday VMT (millions)	Total Lane Miles
2022	488,517	188,434	10.7	4,169
2023	492,169	189,635	10.8	N/A
2024	496,119	190,913	10.9	N/A
2025	500,134	192,262	11.0	N/A
2026	504,072	193,701	11.0	N/A
2029	516,453	198,177	11.3	4,291
2031	524,352	201,187	11.4	N/A
2037	542,129	209,124	11.8	4,342
2046	567,383	218,846	12.2	4,423

D. VEHICLE REGISTRATIONS

TCAG does not estimate vehicle registrations, age distributions or fleet mix. Rather, current forecasted estimates for these data are developed by CARB and included in the EMFAC2014 model (http://www.arb.ca.gov/msei/onroad/latest_version.htm). Vehicle registrations, age distribution and fleet mix are developed and included in the model by CARB and cannot be updated by the user. While EPA issued final approval for EMFAC2017 use in conformity demonstrations on August 15, 2019, the Conformity Analysis for the 2023 FTIP and the 2022 RTP relies on EMFAC2014 since the analysis began in July 2021, in line with the grace period established in the Final Rule. EPA issued a federal register notice on December 14, 2015 formally approving EMFAC2014 for conformity.

E. STATE IMPLEMENTATION PLAN MEASURES

The air quality modeling procedures and associated spreadsheets contained in Chapter 3 Air Quality Modeling assume emission reductions consistent with the applicable air quality plans. The emission reductions assumed for these committed measures reflect the latest implementation status of these measures. Committed control measures in the applicable air quality plans that reduce mobile source emissions and are used in conformity, are summarized below.

OZONE

No committed control measures are included in the 2016 Ozone Plan.

PM-10

Committed control measures in the EPA approved 2007 PM-10 Maintenance Plan that reduce mobile source emissions are shown in Table 2-3. However, reductions from these control measures were not applied to this conformity analysis because they were not needed to demonstrate conformity.

**Table 2-3:
2007 PM-10 Maintenance Plan Measures Assumed in the Conformity Analysis**

Measure Description	Pollutants
ARB existing Reflash, Idling, and Moyer	PM-10 annual exhaust NOx annual exhaust
District Rule 8061: Paved and Unpaved Roads	PM-10 paved road dust PM-10 unpaved road dust
District Rule 8021 Controls: Construction, Demolition, Excavation, Extraction, and Other Earthmoving Activities	PM-10 road construction dust

NOTE: State reductions from the Carl Moyer, Reflash and Idling have been included in EMFAC2014.

PM2.5

No committed control measures are included in the 2016 PM2.5 Plan and the 2018 PM2.5 Plan.

CHAPTER 3: AIR QUALITY MODELING

The model used to estimate vehicle exhaust emissions for ozone precursors and particulate matter is EMFAC2014. CARB emission factors for PM10 have been used to calculate re-entrained paved and unpaved road dust, and fugitive dust associated with road construction. For this conformity analysis, model inputs not dependent on the TIP or RTP are consistent with the applicable SIPs, which include:

- The 2016 Ozone Plan (2008 standard) was adopted by the Air District on June 16, 2016 and subsequently adopted by the ARB on July 21, 2016. EPA found the new ozone budgets adequate on June 29, 2017 (effective July 14, 2017). In response to recent court decisions regarding the baseline RFP year, ARB adopted the revised 2008 ozone conformity budgets as part of the 2018 Updates to the California State Implementation Plan Update on October 25, 2018. EPA approved the budgets and the plan on March 25, 2019.
- The 2007 PM-10 Maintenance Plan (as revised in 2015) was approved by EPA on July 8, 2016 (effective September 30, 2016).
- The 2016 PM2.5 Plan and portions of the 2018 PM2.5 Plan (2012 Standard, moderate) was approved by EPA on November 26, 2021 (effective December 27, 2021).
- The 2018 PM2.5 Plan was partially approved by EPA on July 22, 2020 (effective as of publication) inclusive of the revised conformity budgets and trading mechanism for the 2006 24-hr PM2.5 standard. Then on November 26, 2021, EPA partially disapproved the original SIP submittal dealing with 1997 annual PM2.5 nonattainment. In response, CARB submitted a 2021 revision to the 2018 PM2.5 Plan demonstrating attainment by 2023. On December 29, 2021, EPA proposed approval of the SIP elements and conformity budgets that pertain to the 2012 annual PM2.5 serious area requirements (final action expected by end of the year). Then on January 28, 2022, EPA approved 2018 PM2.5 Plan portion dealing with the 1997 24-hour PM2.5 standard and determined that the SJV attained the standard by the December 31, 2020 deadline (effective February 28, 2022). On February 10, 2022, EPA found the 1997 annual PM2.5 budgets for attainment year 2023 adequate, effective February 25, 2022. It is expected that EPA will act on the remaining SIP elements related to annual 1997 PM2.5 nonattainment by end of the year, including the trading mechanism.

The conformity regulation requirements for the selection of the horizon years are summarized in Chapter 1; regional emissions have been estimated for the horizon years summarized in Table 1-6.

A. EMFAC2014

The EMFAC model (short for EMISSION FACTOR) is a computer emissions modeling software that estimates emission rates for motor vehicles for calendar years from 2000 to 2050 operating in California. Pollutant emissions for hydrocarbons, carbon monoxide, nitrogen oxides, particulate matter, lead, sulfur oxides, and carbon dioxide are output from the model. Emissions are calculated for passenger cars, light, heavy, and medium-duty trucks, motorcycles, buses and motor homes.

EMFAC is used to calculate current and future inventories of motor vehicle emissions at the state, county, air district, air basin, or MPO level. EMFAC contains default vehicle activity data that can be used to estimate a motor vehicle emissions inventory in tons/day for a specific year and season, and as a function of ambient temperature, relative humidity, vehicle population, mileage accrual, miles of travel, and vehicle speeds.

Section 93.111 of the conformity regulation requires the use of the latest emission estimation model in the development of conformity determinations. On December 30, 2014, ARB released EMFAC2014, which is the latest update to the EMFAC model for use by California State and local governments to meet Clean Air Act (CAA, 1990) requirements. Nearly a year later, on December 14, 2015, EPA announced the availability of this latest version of the California EMFAC model for use in SIP development in California. EMFAC2014 was required for conformity analysis on or after December 14, 2017.

On March 1, 2018 ARB released an update to the EMFAC model – EMFAC2017v1.0.2. The model was submitted for EPA review in the fall of 2018 and EPA published final approval of EMFAC for conformity use on August 15, 2019. The announcement set a grace period of 2 years before EMFAC2017 is required for use in new regional emissions analyses. The conformity analysis for the 2023 FTIP and the 2022 RTP began in July 2021, before the EMFAC2017 grace period expired; therefore this analysis relies on EMFAC2014 for all conformity tests.

On January 15, 2021 ARB released the latest update to the EMFAC model – EMFAC2021v1.0.0. EPA has not yet approved EMFAC2021 for regional conformity use.

On September 27, 2019, the United States Environmental Protection Agency (EPA) and the National Highway Traffic Safety Administration (NHTSA) published the “Safer Affordable Fuel-Efficient (SAFE) Vehicles Rule Part One: One National Program” (effective November 26, 2019). The Part One Rule revoked California’s authority to set its own greenhouse gas emissions standards, which were incorporated in EMFAC2014 emissions model. On November 20, 2019, California Air Resources Board (CARB) released “EMFAC Off-Model Adjustment Factors to Account for the SAFE Vehicles Rule Part One” for use in regional conformity analyses. On March 12, 2020, EPA concurred on the use of CARB’s EMFAC off-model adjustment factors in conformity demonstrations. On April 30, EPA and NHTSA published SAFE Vehicles Rule for Model Years 2021-2026 Passenger Cars and Light Trucks (Final SAFE Rule) rolling back federal fuel economy standards. On June 26, 2020 CARB issued a public notice stating that EMFAC adjustments released in November continue to be suitable for conformity purposes. On March 14,

EPA issued a final decision rescinding its 2019 waiver withdrawal, therefore EMFAC adjustments will no longer be needed for regional conformity analyses (CARB guidance is still pending). Therefore, the Conformity Analysis for the 2023 FTIP and 2022 RTP does not include SAFE Rule adjustments.

A transportation data template has been prepared to summarize the transportation model output for use in EMFAC 2014. The template includes allocating VMT by speed bin by hour of the day. EMFAC2014 was used to estimate exhaust emissions for ozone, PM-10, and PM2.5 conformity demonstrations consistent with the applicable air quality plan. Note that the statewide SIP measures documented in Chapter 2 are already incorporated in the EMFAC2014 model as appropriate.

B. ADDITIONAL PM-10 ESTIMATES

PM-10 emissions for re-entrained dust from travel on paved and unpaved roads will be calculated separately from roadway construction emissions. It is important to note that with the final approval of the 2007 PM-10 Maintenance Plan, EPA approved a methodology to calculate PM-10 emissions from paved and unpaved roads in future San Joaquin Valley conformity determinations. The Conformity Analysis uses these methodologies and estimates construction-related PM-10 emissions consistent with the 2007 PM-10 Maintenance Plan. The National Ambient Air Quality Standards for PM-10 consists of a 24-hour standard, which is represented by the motor vehicle emissions budgets established in the 2007 PM-10 Maintenance Plan. It is important to note that EPA revoked the annual PM-10 Standard on October 17, 2006. The PM-10 emissions calculated for the conformity analysis represent emissions on an annual average day and are used to satisfy the budget test.

CALCULATION OF REENTRAINED DUST FROM PAVED ROAD TRAVEL

On January 13, 2011 EPA released a new method for estimating re-entrained road dust emissions from cars, trucks, buses, and motorcycles on paved roads. On February 4, 2011, EPA published the *Official Release of the January 2011 AP-42 Method for Estimating Re-Entrained Road Dust from Paved Roads* approving the January 2011 method for use in regional emissions analysis and beginning a two year conformity grace period, after which use of the January 2011 AP-42 method is required (e.g. February 4, 2013) in regional conformity analyses.

The road dust calculations have been updated to reflect this new methodology. More specifically, the emission factor equation and k value (particle size multiplier) have been updated accordingly. CARB default assumptions for roadway silt loading by roadway class, average vehicle weight, and rainfall correction factor remain unchanged. Emissions are estimated for five roadway classes including freeways, arterials, collectors, local roads, and rural roads. Countywide VMT information is used for each road class to prepare the emission estimates.

CALCULATION OF REENTRAINED DUST FROM UNPAVED ROAD TRAVEL

The base methodology for estimating unpaved road dust emissions is based on a CARB methodology in which the miles of unpaved road are multiplied by the assumed VMT and an emission factor. In the 2007 PM-10 Maintenance Plan, it is assumed that all non-agricultural unpaved roads within the San Joaquin Valley receive 10 vehicle passes per day. An emission factor of 2.0 lbs PM-10/VMT is used for the unpaved road dust emission estimates. Emissions are estimated for city/county maintained roads.

CALCULATION OF PM-10 FROM ROADWAY CONSTRUCTION

Section 93.122(e) of the Transportation Conformity regulation requires that PM-10 from construction-related fugitive dust be included in the regional PM-10 emissions analysis, if it is identified as a contributor to the nonattainment problem in the PM-10 implementation plan. The emission estimates are based on a CARB methodology in which the miles of new road built are converted to acres disturbed, which is then multiplied by a generic project duration (i.e., 18 months) and an emission rate. Emission factors are unchanged from the previous estimates at 0.11 tons PM-10/acre-month of activity. The emission factor includes the effects of typical control measures, such as watering, which is assumed to reduce emissions by about 50%. Updated activity data (i.e., new lane miles of roadway built) is estimated based on the highway and transit construction projects in the TIP/RTP.

PM-10 TRADING MECHANISM

The PM-10 SIP allows trading from the motor vehicle emissions budget for the PM-10 precursor NO_x to the motor vehicle emissions budget for primary PM-10 using a 1.5 to 1 ratio. The trading mechanism will be used only for conformity analyses for analysis years after 2005.

C. PM2.5 APPROACH

EPA and FHWA have indicated that areas violating both the annual and 24-hour standards for PM_{2.5} must address all standards in the conformity determination. The San Joaquin Valley currently violates both the 1997 and 2012 annual PM_{2.5} standards, and the 1997 and 2006 24-hour PM_{2.5} standards; thus the conformity determination includes analyses to all PM_{2.5} standards.

The following PM_{2.5} approach addresses the 1997 (annual and 24-hour), the 2012 (annual), and the 2006 (24-hour) standards:

EMFAC2014 incorporates data for temperature and relative humidity that vary by geographic area, calendar year and season. The annual average represents an average of all the monthly inventories. A winter average represents an average of the California winter season (October through February). EMFAC will be run to estimate direct PM_{2.5} and NO_x emissions from motor vehicles for an annual or winter average day as described below.

EPA guidance indicates that State and local agencies need to consider whether VMT varies during the year enough to affect PM_{2.5} annual emission estimates. The availability of seasonal or monthly VMT data and the corresponding variability of that data need to be evaluated.

PM_{2.5} areas that are currently using network based travel models must continue to use them when calculating annual emission inventories. The guidance indicates that the interagency consultation process should be used to determine the appropriate approach to produce accurate annual inventories for a given nonattainment area. Whichever approach is chosen, that approach should be used consistently throughout the analysis for a given pollutant or precursor. The interagency consultation process should also be used to determine whether significant seasonal variations in the output of network based travel models are expected and whether these variations would have a significant impact on PM_{2.5} emission estimates.

The SJV MPOs use network-based travel models. However, the models only estimate average weekday VMT. The SJV MPOs do not have the data or ability to estimate seasonal variation at this time. Data collection and analysis for some studies are in the preliminary phases and cannot be relied upon for other analyses. Some statewide data for the seasonal variation of VMT on freeways does exist. However, traffic patterns on freeways do not necessarily represent the typical traffic pattern for local streets and arterials.

In many cases, traffic counts are sponsored by the MPOs and conducted by local jurisdictions. While some local jurisdictions may collect weekend or seasonal data, typical urban traffic counts occur on weekdays (Tuesday through Thursday). Data collection must be more consistent in order to begin estimation of daily or seasonal variation.

The SJV MPOs believe that the average annual day calculated from the current traffic models and EMFAC2014 represent the most accurate VMT data available. The MPOs will continue to discuss and research options that look at how VMT varies by month and season according to the local traffic models.

It is important to note that the guidance indicates that EPA expects the most thorough analysis for developing annual inventories will occur during the development of the SIP, taking into account the needs and capabilities of air quality modeling tools and the limitations of available data. Prior to the development of the SIP, State and local air quality and transportation agencies may decide to use simplified methods for regional conformity analyses.

The regional emissions analyses in PM_{2.5} nonattainment areas must consider directly emitted PM_{2.5} motor vehicle emissions from tailpipe, brake wear, and tire wear. In California, areas will use EMFAC2014. As indicated under the Conformity Test Requirements, re-entrained road dust and construction-related fugitive dust from highway or transit projects is not included at this time. In addition, NO_x emissions are included; however, VOC, SO_x, and ammonia emissions are not.

1997 24-Hour and Annual Standards –The portions of the 2018 PM_{2.5} Plan dealing with the 1997 24-hour standard was approved by EPA on January 28, 2022 (effective February 28, 2022) and contain motor vehicle emission budgets for PM_{2.5} and NO_x established based on average annual daily emissions. The 1997 annual PM_{2.5} transportation conformity budgets for annual average PM_{2.5} and NO_x emissions were found adequate by EPA on February 19, 2022 (effective February 25, 2022). The annual inventory methodology contained in the 2018 PM_{2.5} Plan was used to

establish emissions budgets is consistent with the methodology used herein. The motor vehicle emissions budget for PM_{2.5} includes directly emitted PM_{2.5} motor vehicle emissions from tailpipe, brake wear and tire wear. VOC, SO_x, ammonia, and dust (from paved roads, unpaved roads, and road construction) were found to be insignificant and not included in the motor vehicle emission budgets for conformity purposes.

2006 24-Hour Standard – On March 27, 2020, EPA proposed approval of portions of the 2018 PM_{2.5} Plan that pertain to the 2006 24-hour PM_{2.5} standard, including granting attainment deadline extension to 2024. This portion of the 2018 PM_{2.5} Plan was finalized on July 22, 2020, effective as of publication. The 2018 PM_{2.5} Plan contains motor vehicle emission budgets for PM_{2.5} and NO_x established based on average winter daily emissions. The winter inventory methodology contained in the 2018 PM_{2.5} Plan and used to establish emissions budgets is consistent with the methodology used herein. The motor vehicle emissions budget for PM_{2.5} include directly emitted PM_{2.5} motor vehicle emissions from tailpipe, brake wear and tire wear. VOC, SO_x, ammonia, and dust (from paved roads, unpaved roads, and road construction) were found to be insignificant and not included in the motor vehicle emission budgets for conformity purposes.

2012 Annual Standard – On November 26, 2021, EPA issued final approval of the 2016 Moderate Area PM_{2.5} Plan and the portions of the 2018 PM_{2.5} plan that pertain to the moderate requirements for the 2012 PM_{2.5} standard. The approval also included reclassification to serious. On December 29, 2021, EPA proposed approval of the SIP elements and conformity budgets that pertain to the 2012 annual PM_{2.5} serious area requirements (final action expected by end of the year). Until the new 2012 serious area PM_{2.5} standard budgets are found adequate or approved, the SJV will conduct conformity determination for the 2012 annual PM_{2.5} standard using budgets established in the 2018 PM_{2.5} and 2018 PM_{2.5} Plan for moderate nonattainment. The 2018 PM_{2.5} Plan contains motor vehicle emission budgets for PM_{2.5} and NO_x established based on average annual daily emissions. The annual inventory methodology contained in the 2018 PM_{2.5} Plan and used to establish emissions budgets is consistent with the methodology used herein. The motor vehicle emissions budget for PM_{2.5} include directly emitted PM_{2.5} motor vehicle emissions from tailpipe, brake wear and tire wear. VOC, SO_x, ammonia, and dust (from paved roads, unpaved roads, and road construction) were found to be insignificant and not included in the motor vehicle emission budgets for conformity purposes.

If EPA does not act on the serious area 2012 PM_{2.5} budgets, the moderate area annual PM_{2.5} budgets will continue to be used in this conformity analysis. However, if the new conformity budgets are approved or found adequate, the “upcoming budget test” addresses conformity to new conformity budgets.

1997 AND 2012 ANNUAL PM_{2.5} TRADING MECHANISM

The 2018 PM_{2.5} Plan budgets and trading mechanism will also be used in this conformity analysis for moderate and serious 2012 PM_{2.5} and serious 1997 PM_{2.5} standards, as needed. The 2016 PM_{2.5} Plan and 2018 PM_{2.5} Plan allow trading for 2012 PM_{2.5} from the motor vehicle emissions budget for the PM_{2.5} precursor NO_x to the motor vehicle emissions budget for primary annual PM_{2.5} using a 6.5 to 1 ratio. No trading mechanism for 1997 annual PM_{2.5} is currently available, but final EPA action is expected by end of the year.

2006 and 1997 24-HOUR PM2.5 TRADING MECHANISM

On July 22, 2020, EPA partially approved the 2018 PM2.5 SIP including the 2006 PM2.5 standard trading mechanism that allows trading from the motor vehicle emissions budget for the PM2.5 precursor NOx to the motor vehicle emissions budget for primary PM-2.5 using a 2 to 1 ratio. Then on January 28, 2022, EPA approved 1997 24-hour PM2.5 SIP elements contained in the 2018 PM2.5 Plan, inclusive of the inter-pollutant trading mechanism with the same 2 to 1 ratio. This trading mechanism will be used for the 2006 and 2012 24-hour PM2.5 standard conformity analysis, as needed.

D. SUMMARY OF PROCEDURES FOR REGIONAL EMISSIONS ESTIMATES

New step-by-step air quality modeling instructions were developed for SJV MPO use with EMFAC2014. These instructions were originally provided for interagency consultation in May 2016 and were last updated in September 2020. EPA, FHWA, and ARB concurred.

Documentation of the Conformity Analysis for the 2023 FTIP and 2022 RTP is provided in Appendix C, including:

- 2022 RTP Conformity EMFAC Spreadsheet
- 2022 RTP Conformity Paved Road Spreadsheet
- 2022 RTP Conformity Unpaved Road Dust Spreadsheet
- 2022 RTP Conformity Construction Spreadsheet
- 2022 RTP Conformity Totals Spreadsheet

CHAPTER 4: TRANSPORTATION CONTROL MEASURES

This chapter provides an update of the current status of transportation control measures identified in applicable implementation plans. Requirements of the Transportation Conformity regulation relating to transportation control measures (TCMs) are presented first, followed by a review of the applicable air quality implementation plans and TCM findings for the TIP/RTP.

A. TRANSPORTATION CONFORMITY REGULATION REQUIREMENTS FOR TCMS

The Transportation Conformity regulation requires that the TIP/RTP “must provide for the timely implementation of TCMs in the applicable implementation plan.” The Federal definition for the term “transportation control measure” is provided in 40 CFR 93.101:

“any measure that is specifically identified and committed to in the applicable implementation plan that is either one of the types listed in Section 108 of the CAA [Clean Air Act], or any other measure for the purpose of reducing emissions or concentrations of air pollutants from transportation sources by reducing vehicle use or changing traffic flow or congestion conditions. Notwithstanding the first sentence of this definition, vehicle technology based, fuel-based, and maintenance-based measures which control the emissions from vehicles under fixed traffic conditions are not TCMs for the purposes of this subpart.”

In the Transportation Conformity regulation, the definition provided for the term “applicable implementation plan” is:

“Applicable implementation plan is defined in section 302(q) of the CAA and means the portion (or portions) of the implementation plan, or most recent revision thereof, which has been approved under section 110, or promulgated under section 110(c), or promulgated or approved pursuant to regulations promulgated under section 301(d) and which implements the relevant requirements of the CAA.”

Section 108(f)(1) of the Clean Air Act as amended in 1990 lists the following transportation control measures and technology-based measures:

- (i) programs for improved public transit;
- (ii) restriction of certain roads or lanes to, or construction of such roads or lanes for use by, passenger buses or high occupancy vehicles;
- (iii) employer-based transportation management plans, including incentives;
- (iv) trip-reduction ordinances;
- (v) traffic flow improvement programs that achieve emission reductions;

- (vi) fringe and transportation corridor parking facilities serving multiple occupancy vehicle programs or transit service;
- (vii) programs to limit or restrict vehicle use in downtown areas or other areas of emission concentration particularly during periods of peak use;
- (viii) programs for the provision of all forms of high-occupancy, shared-ride services;
- (ix) programs to limit portions of road surfaces or certain sections of the metropolitan area to the use of non-motorized vehicles or pedestrian use, both as to time and place;
- (x) programs for secure bicycle storage facilities and other facilities, including bicycle lanes, for the convenience and protection of bicyclists, in both public and private areas;
- (xi) programs to control extended idling of vehicles;
- (xii) programs to reduce motor vehicle emissions, consistent with title II, which are caused by extreme cold start conditions;
- (xiii) employer-sponsored programs to permit flexible work schedules;
- (xiv) programs and ordinances to facilitate non-automobile travel, provision and utilization of mass transit, and to generally reduce the need for single occupant vehicle travel, as part of transportation planning and development efforts of a locality, including programs and ordinances applicable to new shopping centers, special events, and other centers of vehicle activity;
- (xv) programs for new construction and major reconstructions of paths, tracks or areas solely for the use by pedestrian or other non-motorized means of transportation when economically feasible and in the public interest. For purposes of this clause, the Administrator shall also consult with the Secretary of the Interior; and
- (xvi) program to encourage the voluntary removal from use and the marketplace of pre-1980 model year light duty vehicles and pre-1980 model light duty trucks.

TCM REQUIREMENTS FOR A TRANSPORTATION PLAN

The EPA regulations in 40 CFR 93.113(b) indicate that transportation control measure requirements for transportation plans are satisfied if two criteria are met:

“(1) The transportation plan, in describing the envisioned future transportation system, provides for the timely completion or implementation of all TCMs in the applicable implementation plan which are eligible for funding under Title 23 U.S.C. or the Federal Transit Laws, consistent with schedules included in the applicable implementation plan.

(2) Nothing in the transportation plan interferes with the implementation of any TCM in the applicable implementation plan.”

TCM REQUIREMENTS FOR A TRANSPORTATION IMPROVEMENT PROGRAM

Similarly, in 40 CFR Section 93.113(c), EPA specifies three TCM criteria applicable to a transportation improvement program:

“(1) An examination of the specific steps and funding source(s) needed to fully implement each TCM indicates that TCMs which are eligible for funding under title 23 U.S.C. or the Federal Transit Laws are on or ahead of the schedule established in the applicable implementation plan, or, if such TCMs are behind the schedule established in the applicable implementation plan, the MPO and DOT have determined that past obstacles to implementation of the TCMs have been identified and have been or are being overcome, and that all State and local agencies with influence over approvals or funding for TCMs are giving maximum priority to approval or funding of TCMs over other projects within their control, including projects in locations outside the nonattainment or maintenance area;

(2) If TCMs in the applicable implementation plan have previously been programmed for Federal funding but the funds have not been obligated and the TCMs are behind the schedule in the implementation plan, then the TIP cannot be found to conform:

- if the funds intended for those TCMs are reallocated to projects in the TIP other than TCMs, or
- if there are no other TCMs in the TIP, if the funds are reallocated to projects in the TIP other than projects which are eligible for Federal funding intended for air quality improvement projects, e.g., the Congestion Mitigation and Air Quality Improvement Program;

(3) Nothing in the TIP may interfere with the implementation of any TCM in the applicable implementation plan.”

B. APPLICABLE AIR QUALITY IMPLEMENTATION PLANS

Only transportation control measures from applicable implementation plans for the San Joaquin Valley region are required to be updated for this analysis. For this conformity analysis, the applicable implementation plans, according to the definition provided at the start of this chapter, are summarized below.

APPLICABLE IMPLEMENTATION PLAN FOR OZONE

The 2016 Ozone Plan does not include new TCMs for the San Joaquin Valley.

APPLICABLE IMPLEMENTATION PLAN FOR PM-10

The 2007 PM-10 Maintenance Plan (as revised in 2015) was approved by EPA on July 8, 2016 (effective September 30, 2016). No new local agency control measures were included in the Plan.

The Amended 2003 PM-10 Plan was approved by EPA on May 26, 2004 (effective June 25, 2004). A local government control measure assessment was completed for this plan. The analysis focused on transportation-related fugitive dust emissions, which are not TCMs by definition. The local government commitments are included in the *Regional Transportation Planning Agency Commitments for Implementation Document, April 2003*.

However, the *Amended 2002 and 2005 Ozone Rate of Progress Plan* contains commitments that reduce ozone related emissions; these measures are documented in the *Regional Transportation Planning Agency Commitments for Implementation Document, April 2002*. These commitments are included by reference in the Amended 2003 PM-10 Plan to provide emission reductions for precursor gases and help to address the secondary particulate problem. Since these commitments are included in the Plan by reference, the commitments were approved by EPA as TCMs.

APPLICABLE IMPLEMENTATION PLAN FOR PM2.5

The 2018 PM2.5 Plan does not include any additional TCMs for the San Joaquin Valley.

C. IDENTIFICATION OF 2002 RACM THAT REQUIRE TIMELY IMPLEMENTATION DOCUMENTATION

As part of the 2004 Conformity Determination, FHWA requested that each SIP (Reasonably Available Control Measure - RACM) commitment containing federal transportation funding and a transportation project and schedule be addressed more specifically. FHWA verbally requested documentation that the funds were obligated and the project was implemented as committed to in the SIP.

The RTPA Commitment Documents, Volumes One and Two, dated April 2002 (Ozone RACM) were reviewed, using a "Summary of Commitments" table. Commitments that contain specific Federal funding/transportation projects/schedules were identified for further documentation. In some cases, local jurisdictions used the same Federal funding/transportation projects/schedules for various measures; these were identified as combined with ("comb w/") reference as appropriate. A not applicable ("NA") was noted where federally-funded project is vehicle technology based, fuel based, and maintenance based measures (e.g., LEV program, retrofit programs, clean fuels - CNG buses, etc.).

In addition, the RTPA Commitment Document, Volume Three, dated April 2003 (PM-10 BACM) was reviewed, using the Summary of Commitments table. Commitments that contain specific Congestion Mitigation and Air Quality (CMAQ) funding for the purchase and/or operation of street sweeping equipment have been identified. Only one commitment (Fresno - City of Reedley) was identified.

The Project TID Table was developed to provide implementation documentation necessary for the measures identified. Detailed information is summarized in the first five columns, including the commitment number, agency, description, funding and schedule (if applicable).

For each project listed, the TIP in which the project was programmed, as well as the project ID and description have been provided. In addition, the current implementation status of the project has been included (e.g., complete, under construction, etc). MPO staff determined this information in consultation with the appropriate local jurisdiction. Any projects not implemented according to schedule or project changes are explained in the project status column. These explanations are consistent with the guidance and regulations provided in the Transportation Conformity regulation.

Supplemental documentation was provided to FHWA in August and September 2004 in response to requests for information on timely implementation of TCMs in the San Joaquin Valley. The supplemental documentation included the approach, summary of interagency consultation correspondence, and three tables completed by each of the eight MPOs. The Supplemental Documentation was subsequently approved by FHWA as part of the 2004 Conformity Determination.

The Project TID table that was prepared at the request of FHWA for the 2004 Conformity Analysis, has been updated in each subsequent conformity analysis. This documentation has been updated as part of this Conformity Analysis. A summary of this information is provided in Appendix D.

In March 2005, the SJV MPOs began interagency consultation with FHWA and EPA to address outstanding RACM/TCM issues. In general, criteria were developed to identify commitments that require timely implementation documentation. The criteria were applied to the 2002 RACM Commitments approved by reference as part of the Amended 2003 PM-10 Plan. In April 2006, EPA transmitted final tables that identified the approved RACM commitments that require timely implementation documentation for the Conformity Analysis. Subsequently, an approach to provide timely implementation documentation was developed in consultation with FHWA.

A new 2002 RACM TID Table was prepared in 2006 to address the more general RACM commitments that require additional timely implementation documentation per EPA. A brief summary of the commitment, including finite end dates if applicable, is included for each measure. The MPOs provided a status update regarding implementation in consultation with their member jurisdictions. If a specific project has been implemented, it is included in the Project TID Table under "Additional Projects Identified". This documentation was included in the Conformity Analysis for the 2007 TIP and 2004 RTP (as amended) that was approved by FHWA in October 2006. The 2002 RACM TID Table has been updated as part of this Conformity Analysis. A summary of this information is provided in Appendix D.

D. TCM FINDINGS FOR THE TIP AND REGIONAL TRANSPORTATION PLAN

Based on a review of the transportation control measures contained in the applicable air quality plans, as documented in the two tables contained in Appendix D, the required TCM conformity findings are made below:

The TIP/RTP provide for the timely completion or implementation of the TCMs in the applicable air quality plans. In addition, nothing in the TIP or RTP interferes with the implementation of any TCM in the applicable implementation plan, and priority is given to TCMs.

E. RTP CONTROL MEASURE ANALYSIS IN SUPPORT OF 2003 PM-10 PLAN

In May 2003, the San Joaquin Valley MPO Executive Directors committed to conduct feasibility analyses as part of each new RTP in support of the 2003 PM-10 Plan. This commitment was retained in the 2007 PM-10 Maintenance Plan. In accordance with this commitment, TCAG undertook a process to identify and evaluate potential control measures that could be included in the 2022 RTP. The analysis of additional measures included verification of the feasibility of the measures in the PM-10 Plan BACM analysis, as well as an analysis of new PM-10 commitments from other PM-10 nonattainment areas.

A summary of the process to identify potential long-range control measures analysis and results to be evaluated as part of the RTP development was transmitted to the Interagency Consultation (IAC) partners for review. FHWA and EPA concurred with the summary of the long-range control measure approach in September 2009.

The Local Government Control Measures considered in the PM-10 Plan BACM analysis that were considered for inclusion in the 2022 RTP included:

- Paving or Stabilizing Unpaved Roads and Alleys
- Curbing, Paving, or Stabilizing Shoulders on Paved Roads
- Frequent Routine Sweeping or Cleaning of Paved Roads (i.e., funding allocation for the purchase of PM-10 efficient street sweepers for member jurisdictions)
- Repave or Overlay Paved Roads with Rubberized Asphalt

It is important to note that the first three measures considered in the PM-10 Plan BACM analysis (i.e., access points, street cleaning requirements, and erosion clean up) are not applicable for inclusion in the RTP.

With the adoption of each new RTP, the MPOs will consider the feasibility of these measures, as well as identify any other new PM-10 measures that would be relevant to the San Joaquin Valley. TCAG also considered PM-10 commitments from other PM-10 nonattainment areas that had been developed since the previous RTP was approved. Federal websites were reviewed for any PM-10 plans that have been approved since 2016. New PM-10 plans that have been reviewed include:

- A. Owens Valley, CA Serious PM-10 Nonattainment Area SIP, submitted June 9, 2016 (EPA approval effective April 12, 2017). Road dust was determined to be below de minimis thresholds and no mobile source control measures were adopted.
- B. Juneau’s Mendenhall Valley, AK PM-10 Limited Maintenance Plan submitted July 22, 2020 (EPA approval effective November 24, 2021). The maintenance plan control measures included optimizing sanding and de-icing materials to minimize entrainment, spring street sweeping, and paving of dirt roads. No additional measures were identified for the LMP to continue attainment of the NAAQS. Contingency measures include paving of dirt roads and stabilization of unpaved shoulders.
- C. Wallula, WA Second PM-10 Maintenance Plan submitted November 22, 2019 (EPA approval effective June 1, 2020). The plan relies on fugitive dust controls from livestock operations.
- D. Eagle River, AK PM-10 Nonattainment Plan submitted on November 10, 2020 (EPA approval effective December 9, 2021) The plan control measures include paving gravel roads with recycle asphalt product.
- E. Pinehurst, ID PM-10 Limited Maintenance Plan submitted September 29, 2017 (EPA approval effective October 11, 2018). The plan primarily relies on control strategies for residential wood smoke. No additional PM-10 dust measures are included.

Based on review of commitments from other PM-10 nonattainment areas that have been developed since the previous RTP, no additional on-road fugitive dust controls measures are available for consideration.

Based on consultation with CARB and the Air District, TCAG considered priority funding allocations in the 2022 RTP for PM-10 and NOx emission reduction projects in the post-attainment year timeframe that go beyond the emission reduction commitments made for the attainment year 2010 for the following four measures:

- (1) Paving or Stabilizing Unpaved Roads and Alleys
- (2) Curbing, Paving, or Stabilizing Shoulders on Paved Roads
- (3) Frequent Routine Sweeping or Cleaning of Paved Roads (i.e., funding allocation for the purchase of PM-10 efficient street sweepers for member jurisdictions); and
- (4) Repave or Overlay Paved Roads with Rubberized Asphalt

It is important to note that the first three measures considered in the PM-10 Plan BACM analysis (i.e., access points, street cleaning requirements, and erosion clean up) are not applicable for inclusion in the RTP.

CMAQ funding has been utilized in the past by TCAG agencies to fund numerous projects for implementation of Measures 1 through 3 above. Currently, projects using ATP funds can conceivably use the funds for stabilizing shoulders and adding curbs which would address Measure

2. The use of rubberized asphalt is at the discretion of the agencies responsible for specific overlay projects; various funding sources, including state, federal, and local measure money, have been and will continue to be utilized for implementation of Measure 4 so long as those funds are available. Requests for funding Measure 1 types of projects have not been brought to TCAG and presumably most, if not all, unpaved road needs have been met. On new or relatively small projects, agencies will likely use local and/or measure funds for these projects.

CHAPTER 5: INTERAGENCY CONSULTATION

The requirements for consultation procedures are listed in the Transportation Conformity Regulations under section 93.105. Consultation is necessary to ensure communication and coordination among air and transportation agencies at the local, State and Federal levels on issues that would affect the conformity analysis such as the underlying assumptions and methodologies used to prepare the analysis. Section 93.105 of the conformity regulation notes that there is a requirement to develop a conformity SIP that includes procedures for interagency consultation, resolution of conflicts, and public consultation as described in paragraphs (a) through (e). Section 93.105(a)(2) states that prior to EPA approval of the conformity SIP, “MPOs and State departments of transportation must provide reasonable opportunity for consultation with State air agencies, local air quality and transportation agencies, DOT and EPA, including consultation on the issues described in paragraph (c)(1) of this section, before making conformity determinations.” The Air District adopted Rule 9120 Transportation Conformity on January 19, 1995 in response to requirements in Section 176(c)(4)(c) of the Clean Air Act as amended in 1990. Since EPA has not approved Rule 9120 (the conformity SIP), the conformity regulation requires compliance with 40 CFR 93.105 (a)(2) and (e) and 23 CFR 450.

Section 93.112 of the conformity regulation requires documentation of the interagency and public consultation requirements according to Section 93.105. A summary of the interagency consultation and public consultation conducted to comply with these requirements is provided below. Appendix E includes the public meeting process documentation. The responses to comments received as part of the public comment process are included in Appendix F.

A. INTERAGENCY CONSULTATION

Consultation is generally conducted through the San Joaquin Valley Interagency Consultation Group (combination of previous Model Coordinating Committee and Programming Coordinating Group). The San Joaquin Valley Interagency Consultation (IAC) Group has been established by the Valley Transportation Planning Agency's Director's Association to provide a coordinated approach to valley transportation planning and programming (Transportation Improvement Program, Regional Transportation Plan, and Amendments), transportation conformity, climate change, and air quality (State Implementation Plan and Rules). The purpose of the group is to ensure Valley wide coordination, communication and compliance with Federal and California Transportation Planning and Clean Air Act requirements. Each of the eight Valley MPOs and the Air District are represented. In addition, the Federal Highway Administration, Federal Transit Administration, the Environmental Protection Agency, the California Air Resources Board and Caltrans (Headquarters, District 6, and District 10) are all represented. The IAC Group meets approximately quarterly.

The draft boilerplate conformity document was distributed for interagency consultation on March 17, 2022. Comments received have been addressed and incorporated into this version of the analysis.

In addition, the CMAQ Policy Threshold Evaluation was transmitted for interagency consultation in May, 2021. No changes to the CMAQ Policy were recommended. The San Joaquin Valley MPO CMAQ policy contains language that says the cost-effectiveness threshold will be evaluated with every FTIP; whereas, the policy itself is to be reviewed with every RTP. As part of the 2023 FTIP development, the threshold was reviewed. The review indicated that a threshold should be increased to \$63/lb. No adverse comments were received

The Conformity Analysis for the 2023 FTIP and 2022 RTP was developed in consultation with TCAG local partner agencies, including member jurisdictions, Caltrans, and local transit agencies.

The 2023 FTIP, 2022 RTP, and corresponding conformity analysis and environmental document were released on May 17, 2022 for a 55-day public comment period, followed by adoption on August 15, 2022. Federal approval is anticipated on or before December 31, 2022.

Transit providers in Tulare County are represented on the TCAG Technical Advisory Committee which makes recommendations on the FTIP, RTP and corresponding conformity analysis.

B. PUBLIC CONSULTATION

In general, agencies making conformity determinations shall establish a proactive public involvement process that provides opportunity for public review and comment on a conformity determination for FTIPs/RTPs. In addition, all public comments must be addressed in writing.

All MPOs in the San Joaquin Valley have standard public involvement procedures. TCAG has an adopted consultation process and policy for conformity analysis which includes a minimum 30-day public notice and comment period followed by a public hearing. A public meeting is also conducted prior to adoption and all public comments are responded to in writing. The Appendices contain corresponding documentation supporting the public involvement procedures.

CHAPTER 6: TIP AND RTP CONFORMITY

The principal requirements of the transportation conformity regulation for TIP/RTP assessments are: (1) the TIP and RTP must pass an emissions budget test with a budget that has been found to be adequate by EPA for transportation conformity purposes, or an interim emission test; (2) the latest planning assumptions and emission models must be employed; (3) the TIP and RTP must provide for the timely implementation of transportation control measures (TCMs) specified in the applicable air quality implementation plans; and (4) consultation. The final determination of conformity for the TIP/RTP is the responsibility of the Federal Highway Administration and the Federal Transit Administration.

The previous chapters and the appendices present the documentation for all of the requirements listed above for conformity determinations except for the conformity test results. Prior chapters have also addressed the updated documentation required under the transportation conformity regulation for the latest planning assumptions and the implementation of transportation control measures specified in the applicable air quality implementation plans.

This chapter presents the results of the conformity tests, satisfying the remaining requirement of the transportation conformity regulation. Separate tests were conducted for ozone, PM-10 and PM2.5 (1997 and 2012 PM2.5 standards, and 2006 24-hour PM2.5 standards). The applicable conformity tests were reviewed in Chapter 1. For each test, the required emissions estimates were developed using the transportation and emission modeling approaches required under the transportation conformity regulation and summarized in Chapters 2 and 3. The results are summarized below, followed by a more detailed discussion of the findings for each pollutant. Table 6-1 presents results for ozone (ROG/NO_x), PM-10 (PM-10/NO_x), and PM2.5 (PM2.5/NO_x) respectively, in tons per day for each of the horizon years tested.

Ozone:

For 2008 and 2015 8-hour ozone, the applicable conformity test is the emissions budget test, using the *2018 Updates to the California State Implementation Plan* budgets for the San Joaquin Valley established for ROG and NO_x for an average summer (ozone) season day. EPA approved the plan and the budgets on March 25, 2019. The modeling results for all analysis years indicate that the on-road vehicle ROG and NO_x emissions predicted for each of the “Build” scenarios are less than the emissions budgets. The TIP/RTP therefore satisfy the conformity emissions test for volatile organic compounds and nitrogen oxides.

PM-10:

For PM-10, the applicable conformity test is the emissions budget test, using the 2007 PM-10 Maintenance Plan budgets for PM-10 and NO_x. This Plan revisions including conformity budgets was approved by EPA on July 8, 2016 (effective September 30, 2016). The modeling results for

all analysis years indicate that the PM-10 emissions predicted for the “Build” scenarios are less than the emissions budget for 2020. The TIP/RTP therefore satisfy the conformity emissions tests for PM-10.

1997 24-Hour and Annual PM2.5 Standards:

For 1997 PM2.5 Standards, the applicable conformity test is the emission budget test, using budgets established in the 2018 PM2.5 Plan. EPA approved 2018 PM2.5 Plan elements pertaining to the 1997 24-hour and 1997 annual PM2.5 standards on January 28 and February 10, 2022, respectively. The modeling results for all analysis years indicate that the on-road vehicle PM2.5 and NOx emissions predicted for the “Build” scenarios are less than the emissions budget. However, if the 2018 PM2.5 Plan conformity budgets are approved or found adequate, the “upcoming budget test” demonstrates conformity to the new 1997 PM2.5 budgets. The TIP/RTP therefore satisfy the conformity emissions test for PM2.5 and nitrogen oxides.

2006 PM2.5 Standard:

On July 22, 2020, EPA approved portions of the 2018 PM2.5 Plan that pertain to the 2006 24-hour PM2.5 standard, including new transportation conformity budgets and trading mechanism. For the 2006 PM2.5 standard, the applicable conformity test is the emission budget test, using approved budgets established in the 2018 PM2.5 Plan. The modeling results for all analysis years indicate that the on-road vehicle PM2.5 and NOx emissions predicted for the “Build” scenarios are less than the emissions budget. The TIP/RTP therefore satisfy the conformity emissions test for PM2.5 and nitrogen oxides.

2012 PM2.5 Standard:

On November 26, 2021, EPA issued final approval of the 2016 Moderate Area PM2.5 Plan and portions of the 2018 PM2.5 plan that pertain to the moderate requirements for the 2012 PM2.5 standard. The approval also included reclassification to serious. On December 29, 2021, EPA proposed approval of the SIP elements and conformity budgets that pertain to the 2012 annual PM2.5 serious area requirements (final action expected by end of the year). Until the new 2012 serious area PM2.5 standard budgets are found adequate or approved, the SJV will conduct conformity determination for the 2012 annual PM2.5 standard using budgets established in the 2018 PM2.5 and 2018 PM2.5 Plan for moderate nonattainment.

For the 2012 PM2.5 standards, the applicable conformity test is the emissions budget test, using moderate area budgets. The modeling results for all analysis years indicate that the on-road vehicle PM2.5 and NOx emissions predicted for the “Build” scenarios are less than the emissions budget. However, if the serious 2018 PM2.5 Plan conformity budgets are approved or found adequate, the “upcoming budget test” also demonstrates conformity to the new 2012 PM2.5 budgets. The TIP/RTP therefore satisfy the conformity emissions test for PM2.5 and nitrogen oxides.

As all requirements of the Transportation Conformity Regulation have been satisfied, a finding of conformity for the 2023 FTIP and the 2022 RTP is supported.

**Table 6-1:
 Conformity Results Summary**

Standard	Analysis Year	Emissions Total		DID YOU PASS?	
		ROG (tons/day)	NOx (tons/day)	ROG	NOx
2008 and 2015 Ozone	2023 Budget	2.4	4.6		
	2023	2.3	4.5	YES	YES
	2026 Budget	2.1	4.0		
	2026	2.0	3.9	YES	YES
	2029 Budget	1.8	3.7		
	2029	1.8	3.5	YES	YES
	2031 Budget	1.7	3.5		
	2031	1.6	3.2	YES	YES
	2037	1.3	2.8	YES	YES
2046	1.1	2.6	YES	YES	

Standard	Analysis Year	Emissions Total		DID YOU PASS?	
		PM-10 (tons/day)	NOx (tons/day)	PM-10	NOx
PM-10	2020 Budget	3.4	8.4		
	2022	2.5	6.4	YES	YES
	2020 Budget	3.4	8.4		
	2029	2.6	3.6	YES	YES
	2020 Budget	3.4	8.4		
	2037	2.5	2.9	YES	YES
	2020 Budget	3.4	8.4		
2046	2.6	2.7	YES	YES	

PM-10	Total On-Road Exhaust		Paved Road Dust		Unpaved Road Dust		Road Construction Dust		Total	
	PM-10	Nox	PM-10	Nox	PM-10	Nox	PM-10	Nox	PM-10	Nox
2022	0.680	6.358	0.901		0.757		0.160		2.5	6.4
2029	0.683	3.552	0.948		0.757		0.262		2.6	3.6
2037	0.698	2.895	0.990		0.757		0.096		2.5	2.9
2046	0.716	2.684	1.026		0.757		0.135		2.6	2.7

*Tulare County Association of Governments (TCAG)
Draft Conformity Analysis for the 2023 FTIP and 2022 RTP*

Standard	Analysis Year	Emissions Total		DID YOU PASS?	
		PM2.5 (tons/day)	NOx (tons/day)	PM2.5	NOx
1997 24-Hour PM2.5 Standard	2020 Budget	0.4	8.5		
	2023	0.3	4.7	YES	YES
	2020 Budget	0.4	8.5		
	2029	0.3	3.6	YES	YES
	2020 Budget	0.4	8.5		
	2037	0.3	2.9	YES	YES
	2020 Budget	0.4	8.5		
2046	0.3	2.7	YES	YES	

Standard	Analysis Year	Emissions Total		DID YOU PASS?	
		PM2.5 (tons/day)	NOx (tons/day)	PM2.5	NOx
1997 Annual PM2.5 Standard	2023 Budget	0.4	5.2		
	2023	0.3	4.7	YES	YES
	2023 Budget	0.4	5.2		
	2029	0.3	3.6	YES	YES
	2023 Budget	0.4	5.2		
	2037	0.3	2.9	YES	YES
	2023 Budget	0.4	5.2		
2046	0.3	2.7	YES	YES	

Standard	Analysis Year	Emissions Total		DID YOU PASS?	
		PM2.5 (tons/day)	NOx (tons/day)	PM2.5	NOx
2006 PM2.5 Winter 24-Hour Standard	2023 Budget	0.4	5.3		
	2023	0.3	4.9	YES	YES
	2024 Budget	0.4	5.1		
	2024	0.3	4.6	YES	YES
	2024 Budget	0.4	5.1		
	2031	0.3	3.5	YES	YES
	2024 Budget	0.4	5.1		
	2037	0.3	3.0	YES	YES
2024 Budget	0.4	5.1			
2046	0.3	2.8	YES	YES	

Standard	Analysis Year	Emissions Total		DID YOU PASS?	
		PM2.5 (tons/day)	NOx (tons/day)	PM2.5	NOx
2012 Annual PM2.5 Standard (Moderate)	2022 Budget	0.4	6.9		
	2022	0.3	6.4	YES	YES
	2022 Budget	0.4	6.9		
	2025	0.3	4.3	YES	YES
	2022 Budget	0.4	6.9		
	2029	0.3	3.6	YES	YES
	2022 Budget	0.4	6.9		
	2037	0.3	2.9	YES	YES
	2025 Budget	0.4	6.9		
	2046	0.3	2.7	YES	YES

UPCOMING BUDGET TEST

(Note: EPA Action is Pending as of This Analysis; The 2012 PM2.5 Moderate Budget Test Above Will be Used if EPA Doesn't Determine Adequacy or Approval of the New Serious Area Budgets before Federal Approval of the 2022 RTP Conformity Analysis)

Standard	Analysis Year	Emissions Total		DID YOU PASS?	
		PM2.5 (tons/day)	NOx (tons/day)	PM2.5	NOx
2012 Annual PM2.5 Standard (Serious)	2022 Budget	0.4	6.9		
	2022	0.3	6.4	YES	YES
	2025 Budget	0.4	6.9		
	2025	0.3	4.3	YES	YES
	2025 Budget	0.4	6.9		
	2029	0.3	3.6	YES	YES
	2025 Budget	0.4	6.9		
	2037	0.3	2.9	YES	YES
	2025 Budget	0.4	6.9		
	2046	0.3	2.7	YES	YES

REFERENCES

CAA, 1990. *Clean Air Act*, as amended November 15, 1990. (42 U. S. C. Section 7401et seq.) November 15, 1990.

EPA, 1993. 40 CFR Parts 51 and 93. *Criteria and Procedures for Determining Conformity to State or Federal Implementation Plans of Transportation Plans, Programs and Projects Funded or Approved Under Title 23 U.S.C. or the Federal Transit Act*. U.S. Environmental Protection Agency. Federal Register, November 24, 1993, Vol. 58, No. 225, p. 62188.

EPA, 2004a. *Companion Guidance for the July 1, 2004, Final Transportation Conformity Rule: Conformity Implementation in Multi-jurisdictional Nonattainment and Maintenance Areas for Existing and New Air Quality Standards*. U.S. Environmental Protection Agency. July 21, 2004.

EPA, 2010a. 40 CFR Part 93. *Transportation Conformity Rule PM_{2.5} and PM₁₀ Amendments; Final Rule*. Federal Register, March 24, 2010, Vol. 75, No. 56, p. 14260.

EPA, 2010b. *Transportation Conformity Regulations EPA-420-B-10-006*. March.

EPA, 2012a. 40 CFR Part 93. *Transportation Conformity Rule Restructuring Amendments; Final Rule*. Federal Register, March 14, 2012, Vol. 77, No. 50, p. 14979.

EPA, 2012b. *Transportation Conformity Guidance for 2008 Ozone Nonattainment Areas*. U.S. Environmental Protection Agency. EPA-420-B-12-045. July 2012.

EPA, 2012c. *Guidance for Transportation Conformity Implementation in Multi-Jurisdictional Nonattainment and Maintenance Areas*. U.S. Environmental Protection Agency. EPA-420-B-12-046. July 2012.

EPA, 2015. *Implementation of the 2009 National Ambient Air Quality Standards for Ozone: State Implementation Plan Requirements*. Final Rule. U.S. Environmental Protection Agency. Vol. 80. No. 44. March 6, 2015.

EPA, 2016. *Fine Particulate Matter National Ambient Air Quality Standards: State Implementation Plan Requirements*. Final Rule. U.S. Environmental Protection Agency. PA-HQ-OAR-2013-0691. July 29, 2016.

EPA, 2018(a). *Implementation of the 2015 National Ambient Air Quality Standards for Ozone: Nonattainment Area State Implementation Plan Requirements*. Final Rule. U.S. Environmental Protection Agency. Vol. 83, No. 234, December 6, 2018.

EPA, 2018(b). *Transportation Conformity Guidance for the South Coast II Court Decision*. EPA-420-B-12-050. November 2018.

EPA, 2018(c). *Transportation Conformity Guidance for 2015 Ozone NAAQS Nonattainment Areas*. EPA-420-B-18-023. June 2018.

USDOT. 2001. *Use of Latest Planning Assumptions in Conformity Determinations*.
Memorandum from U.S. Department of Transportation. January 18, 2001.

USDOT. 2001. Federal Highway Administration. Planning Assistance and Standards. 23 CFR
450. October 16.

APPENDIX A

CONFORMITY CHECKLIST

CONFORMITY ANALYSIS DOCUMENTATION

Checklist for MPO TIPs/RTPs January 2018

40 CFR	Criteria	Page	Comments
§93.102	Document the applicable pollutants and precursors for which EPA designates the area as nonattainment or maintenance. Describe the nonattainment or maintenance area and its boundaries.	Chapter 1, pgs. 5-8	
§93.102 (b)(2)(iii)	PM10 areas: document whether EPA or state has found VOC and/or NOx to be a significant contributor or if the SIP establishes a budget	Chapter 1, pgs. 10-11	
§93.102 (b)(2)(iv)	PM2.5 areas: document if both EPA and the state have found that NOx is not a significant contributor or that the SIP does not establish a budget (otherwise, conformity applies for NOx)	Chapter 1, pgs. 10-11	
§93.102 (b)(2)(v)	PM2.5 areas: document whether EPA or state has found VOC, SO2, and/or NH3 to be a significant contributor or if the SIP establishes a budget	Chapter 1, pg. 13	
§93.104 (b, c)	Document the date that the MPO officially adopted, accepted or approved the TIP/RTP and made a conformity determination. Include a copy of the MPO resolution. Include the date of the last prior conformity finding made by DOT.	ES pg. 1; Appendix E	
§93.104 (e)	If the conformity determination is being made to meet the timelines included in this section, document when the new motor vehicle emissions budget was approved or found adequate.	N/A	
§93.106	Document that horizon years are no more than 10 years apart ((a)(1)(i)). Document that the first horizon year is no more than 10 years from the based year used to validate the transportation demand planning model ((a)(1)(ii)). Document that the attainment year is a horizon year, if in the timeframe of the plan ((a)(1)(iii)). Describe the regionally significant additions or modifications to the existing transportation network that are expected to be open to traffic in each analysis year ((a)(2)(ii)). Document that the design concept and scope of projects allows adequate model representation to determine intersections with regionally significant facilities, route options, travel times, transit ridership and land use.	Chapter 1, pg. 16	

Tulare County Association of Governments (TCAG)
Draft Conformity Analysis for the 2023 FTIP and 2022 RTP

40 CFR	Criteria	Page	Comments
§93.108	Document that the TIP/RTP is fiscally constrained (23 CFR 450).	ES pg. 1	
§93.109 (a, b)	Document that the TIP/RTP complies with any applicable conformity requirements of air quality implementation plans (SIPs) and court orders.	ES pgs 2-3	
§93.109 (c.)	Provide either a table or text description that details, for each pollutant, precursor and applicable standard, whether the interim emissions test(s) and/or the budget test apply for conformity. Indicate which emissions budgets have been found adequate by EPA, and which budgets are currently applicable for what analysis years.	Chapter 1, pgs. 10-19	
§93.109(e)	CO or PM10: Document if the area has a limited maintenance plan and from where that information comes	Chapter 1, pg. 11	
§93.109(f)	Document if motor vehicle emissions are an insignificant contributor and in what SIP that determination is found	Chapter 1, pg. 15	
§93.110 (a, b)	Document the use of latest planning assumptions (source and year) at the “time the conformity analysis begins,” including current and future population, employment, travel and congestion. Document the use of the most recent available vehicle registration data. Document the date upon which the conformity analysis was begun.	Chapter 2, pgs. 20-31	
EPA-DOT guidance	Document the use of planning assumptions less than five years old. If unable, include written justification for the use of older data. (December 2008 guidance,)	Chapter 2, pgs. 20-31	
§93.110 (c,d,e,f)	Document any changes in transit operating policies and assumed ridership levels since the previous conformity determination (c). Document the assumptions about transit service, use of the latest transit fares, and road and bridge tolls (d). Document the use of the latest information on the effectiveness of TCMs and other SIP measures that have been implemented (e). Document the key assumptions and show that they were agreed to through Interagency and public consultation (f).	Chapter 2, pgs. 20-31	
§93.111	Document the use of the latest emissions model approved by EPA. If the previous model was used and the grace period has ended, document that the analysis began before the end of the grace period.	Chapter 3, pgs. 31-33	
§93.112	Document fulfillment of the interagency and public consultation requirements outlined in a specific implementation plan according to §51.390 or, if a SIP revision has not been completed, according to	Chapter 5, pgs. 45-46	

Tulare County Association of Governments (TCAG)
Draft Conformity Analysis for the 2023 FTIP and 2022 RTP

40 CFR	Criteria	Page	Comments
	§93.105 and 23 CFR 450. Include documentation of consultation on conformity tests and methodologies as well as responses to written comments.		
§93.113	Document timely implementation of all TCMs in approved SIPs. Document that implementation is consistent with schedules in the applicable SIP and document whether anything interferes with timely implementation. Document any delayed TCMs in the applicable SIP and describe the measures being taken to overcome obstacles to implementation.	Chapter 4, pgs. 38-44 Appendix D	
§93.114	Document that the conformity analyses performed for the TIP is consistent with the analysis performed for the Plan, in accordance with 23 CFR 450.324(f)(2).	ES pg. 1	
For Areas with SIP Budgets:			
§93.118, §93.124	Document what the applicable budgets are, and for what years. Document if there are subarea budgets established, and for which areas (93.124(c)). Document if there is a safety margin established, and what are the budgets with the safety margin included. (93.124(a)). Document if there has been any trading among budgets, and if so, which SIP establishes the trading mechanism, and how it is used in the conformity analysis (93.124(b)). If there is more than one MPO in the area, document whether separate budgets are established for each MPO (93.124(d)).	Chapter 1, pgs. 10-19	
§93.118 (a, c, e)	Document that emissions from the transportation network for each applicable pollutant and precursor, including projects in any associated donut area that are in the TIP and regionally significant non-Federal projects, are consistent with any adequate or approved motor vehicle emissions budget for all pollutants and precursors in applicable SIPs.	Chapter 6, pgs. 47-51	
§93.118 (b)	Document for which years consistency with motor vehicle emissions budgets must be shown.	Chapter 1, pg. 17	
§93.118 (d)	Document the use of the appropriate analysis years in the regional emissions analysis for areas with SIP budgets, and the analysis results for these years. Document any interpolation performed to meet tests for years in which specific analysis is not required.	Chapter 6, pgs. 47-51	
For Areas without Applicable SIP Budgets:			
§93.119	<u>Document whether the area must meet just one or both interim emissions tests. If both, document that</u>	Chapter 6, pgs. 47-51	

*Tulare County Association of Governments (TCAG)
Draft Conformity Analysis for the 2023 FTIP and 2022 RTP*

40 CFR	Criteria	Page	Comments
	<u>it is the “less than” form of these tests (i.e., §93.119(b)(1) and (c)(1) vs. (b)(2), (c)(2), and (d)).</u>		
§93.119 ⁱ (a, b, c, d)	Document that emissions from the transportation network for each applicable pollutant and precursor, including projects in any associated donut area that are in the TIP and regionally significant non-Federal projects, are consistent with the requirements of the “Action/Baseline” or “Action/Baseline Year” emissions tests as applicable.	Chapter 6, pgs. 47-51	
§93.119 (e)	Document the appropriate baseline year.	Chapter 6, pgs. 47-51	
§93.119 (f)	Document the use of appropriate pollutants and if EPA or the state has made a finding that a particular precursor or component of PM10 is significant or insignificant.	Chapter 1, pgs. 4-19	
§93.119 (g)	Document the use of the appropriate analysis years in the regional emissions analysis for areas without applicable SIP budgets.	Chapter 3, pgs. 31-37	
§93.119 (h, i)	Document how the baseline and action scenarios are defined for each analysis year.	Chapter 2 pgs. 20-30	
For All Areas Where a Regional Emissions Analysis Is Needed			
§93.122 (a)(1)	Document that all regionally significant federal and non-Federal projects in the nonattainment/maintenance area are explicitly modeled in the regional emissions analysis. For each project, identify by which analysis year it will be open to traffic. Document that VMT for non-regionally significant Federal projects is accounted for in the regional emissions analysis	Chapter 2, pgs. 20-30	
§93.122 (a)(2, 3)	Document that only emission reduction credits from TCMs on schedule have been included, or that partial credit has been taken for partially implemented TCMs (a)(2). Document that the regional emissions analysis only includes emissions credit for projects, programs, or activities that require regulatory action if: the regulatory action has been adopted; the project, program, activity or a written commitment is included in the SIP; EPA has approved an opt-in to the program, EPA has promulgated the program, or the Clean Air Act requires the program (indicate applicable date). Discuss the implementation status of these programs and the associated emissions credit for each analysis year (a)(3).	Chapter 2, pgs. 20-30	
§93.122 (a)(4,5,6,7)	For nonregulatory measures that are not included in the transportation plan and TIP, include written commitments from appropriate agencies (a)(4).	Chapter 6, pgs. 47-48	

40 CFR	Criteria	Page	Comments
	Document that assumptions for measures outside the transportation system (e.g. fuels measures) are the same for baseline and action scenarios (a)(5). Document that factors such as ambient temperature are consistent with those used in the SIP unless modified through interagency consultation (a)(6). Document the method(s) used to estimate VMT on off-network roadways in the analysis (a)(7).		
§93.122 (b)(1)(i) ⁱⁱ	Document that a network-based travel model is in use that is validated against observed counts for a base year no more than 10 years before the date of the conformity determination. Document that the model results have been analyzed for reasonableness and compared to historical trends and explain any significant differences between past trends and forecasts (for per capita vehicle-trips, VMT, trip lengths mode shares, time of day, etc.).	Chapter 2, pgs. 20-31	
§93.122 (b)(1)(ii) ⁱⁱ	Document the land use, population, employment, and other network-based travel model assumptions.	Chapter 2, pgs. 20-31	
§93.122 (b)(1)(iii) ⁱⁱ	Document how land use development scenarios are consistent with future transportation system alternatives, and the reasonable distribution of employment and residences for each alternative.	Chapter 2, pgs. 20-31	
§93.122 (b)(1)(iv) ⁱⁱ	Document use of capacity sensitive assignment methodology and emissions estimates based on a methodology that differentiates between peak and off-peak volumes and speeds, and bases speeds on final assigned volumes.	Chapter 2, pgs. 20-31	
§93.122 (b)(1)(v) ⁱⁱ	Document the use of zone-to-zone travel impedances to distribute trips in reasonable agreement with the travel times estimated from final assigned traffic volumes. Where transit is a significant factor, document that zone-to-zone travel impedances used to distribute trips are used to model mode split.	Chapter 2, pgs. 20-31	
§93.122 (b)(1)(vi) ⁱⁱ	Document how travel models are reasonably sensitive to changes in time, cost, and other factors affecting travel choices.	Chapter 2, pgs. 20-31	
§93.122 (b)(2) ⁱⁱ	Document that reasonable methods were used to estimate traffic speeds and delays in a manner sensitive to the estimated volume of travel on each roadway segment represented in the travel model.	Chapter 2, pgs. 20-31	
§93.122 (b)(3) ⁱⁱ	Document the use of HPMS, or a locally developed count-based program or procedures that have been chosen through the consultation process, to reconcile and calibrate the network-based travel model estimates of VMT.	Chapter 2, pgs. 20-31	
§93.122 (d)	In areas not subject to §93.122(b), document the continued use of modeling techniques or the use of	Chapter 2, pgs. 20-31	

40 CFR	Criteria	Page	Comments
	appropriate alternative techniques to estimate vehicle miles traveled		
§93.122 (e, f)	Document, in areas where a SIP identifies construction-related PM10 or PM2.5 as significant pollutants, the inclusion of PM10 and/or PM2.5 construction emissions in the conformity analysis.	Chapter 2, pgs. 20-31	
§93.122 (g)	If appropriate, document that the conformity determination relies on a previous regional emissions analysis and is consistent with that analysis, i.e. that:	Chapter 2, pgs. 20-31	
	(g)(1)(i): the new plan and TIP contain all the projects that must be started to achieve the highway and transit system envisioned by the plan	Chapter 2, pgs. 20-31	
	(g)(1)(ii): all plan and TIP projects are included in the transportation plan with design concept and scope adequate to determine their contribution to emissions in the previous determination;	Chapter 2, pgs. 20-31	
	(g)(1)(iii): the design concept and scope of each regionally significant project in the new plan/TIP are not significantly different from that described in the previous;	Chapter 3, pgs 31-37	
	(g)(1)(iv): the previous regional emissions analysis meets 93.118 or 93.119 as applicable	N/A	
§93.126, §93.127, §93.128	Document all projects in the TIP/RTP that are exempt from conformity requirements or exempt from the regional emissions analysis. Indicate the reason for the exemption (Table 2, Table 3, traffic signal synchronization) and that the interagency consultation process found these projects to have no potentially adverse emissions impacts.	Appendix B	

ⁱ Note that some areas are required to complete both Interim emissions tests.

ⁱⁱ 40 CFR 93.122(b) refers only to serious, severe and extreme ozone areas and serious CO areas above 200,000 population. Also note these procedures apply in any areas where the use of these procedures has been the previous practice of the MPO (40 CFR 93.122(d)).

Disclaimers

This checklist is intended solely as an informational guideline to be used in reviewing Transportation Plans and Transportation Improvement Programs for adequacy of their conformity documentation. It is in no way intended to replace or supersede the Transportation Conformity regulations of 40 CFR Parts 51 and 93, the Statewide and Metropolitan Planning Regulations of 23 CFR Part 450 or any other EPA, FHWA or FTA guidance pertaining to transportation conformity or statewide and metropolitan planning. This checklist is not intended for use in documenting transportation conformity for individual transportation projects in nonattainment or maintenance areas. 40 CFR Parts 51 and 93 contain additional criteria for project-level conformity determinations.

APPENDIX B
TRANSPORTATION PROJECT LISTING

Regionally Significant Projects Listing

RTP Project ID	Jurisdiction/ Agency	Facility Name/Rte	Project Limits	Type of Improvement	Open to Traffic	Year(s) Modeled										Estimated Cost (\$1,000's)
						2022	2023	2024	2025	2026	2029	2031	2037	2042	2046	
TUL12-111	Caltrans	SR 99	30.6/35.2 Tulare/Tagus - Prosperity Ave to 1.2m S of Ave 280	Widen existing roadway	2023		x	x	x	x	x	x	x	x	x	\$85,713
CT-RTP07-004	Caltrans	SR 99	25.2/30.6 Tulare - Avenue 200 to Prosperity Ave	Widen existing roadway	2029						x	x	x	x	x	\$152,264
CT-RTP22-001	Caltrans	SR 99	0.0/13.5 Near Earlimart, County Line Rd to .7 mi north of Court Ave*	Widen existing roadway	2029						x	x	x	x	x	\$109,235
CT-RTP07-005	Caltrans	SR 99	13.5/25.2 .7 mi north of Court Ave to Avenue 200	Widen existing roadway	2042									x	x	\$268,580
TUL12-122	Caltrans	SR 65	10.9/15.6 Terra Bella - Ave 88 to Ave 124	Widen existing roadway	2035								x	x	x	\$55,486
CT-RTP11-001	Caltrans	SR 65	29.5/32.3 Near Lindsay-from Hermosa Rd to Ave 244	Widen existing roadway	2034								x	x	x	\$84,454
CT-RTP07-008	Caltrans	SR 190	13.2/15.0 Porterville - Westwood to Rte 65	Widen existing roadway	2035								x	x	x	\$24,117

Regionally Significant Projects Listing

RTP Project ID	Jurisdiction/ Agency	Facility Name/Rte	Project Limits	Type of Improvement	Open to Traffic	Year(s) Modeled										Estimated Cost (\$1,000's)
						2022	2023	2024	2025	2026	2029	2031	2037	2042	2046	
CT-RTP07-011	Caltrans	SR 99	SR-99 at Caldwell Avenue	Major I/C improvements	2026					x	x	x	x	x	x	\$54,600
CT-RTP07-013	Caltrans	SR 99	SR-99 at Agri Center (Commercial)	Construct new I/C	2024			x	x	x	x	x	x	x	x	\$66,800
CT-RTP07-014	Caltrans	SR 99	SR-99 at Paige Ave.	Major I/C improvements	2029						x	x	x	x	x	\$66,817
CT-RTP07-021	Caltrans	SR 198	SR-198 at Road 148	Construct new I/C	2046										x	\$101,383
CT-RTP07-022	Caltrans	SR 190	SR-190 at Main Street	Major I/C improvements	2037								x	x	x	\$73,262
PO-RTP14-001	Porterville	Westwood St	South of Orange Ave to South of Tule River	Widen existing road/bridge	2037								x	x	x	\$15,174
PO-RTP18-002	Porterville	Newcomb St	North of Tule River to south of Poplar Ditch	New crossing over SR190/Tule	2035								x	x	x	\$67,665

Regionally Significant Projects Listing

RTP Project ID	Jurisdiction/ Agency	Facility Name/Rte	Project Limits	Type of Improvement	Open to Traffic	Year(s) Modeled										Estimated Cost (\$1,000's)
						2022	2023	2024	2025	2026	2029	2031	2037	2042	2046	
TUL20-103	Tulare Co.	Avenue 280	Brundage (Farmersville) to Elberta (Exeter)	Widen existing roadway	2028						x	x	x	x	x	\$25,674

Federally Funded Non-Regionally Significant Project Listing

No Projects

Exempt Project Listing

Agency	MPO ID	CTIPS ID	Project Title	Project Description	Total Project Cost (in \$1,000s)	Exemption Description	Exemption Code
Dinuba	TUL20-001	21500000765	City of Dinuba Alta and Kamm Roundabout	In the City of Dinuba at the intersection of Alta Avenue and Kamm Avenue; construct new roundabout.	\$4,012	Intersection channelization projects.	5.01
Porterville	TUL20-004	21500000774	City of Porterville Plano and College Roundabout	In City of Porterville at intersection of S. Plano Street and E. College Avenue; construct roundabout.	\$8,386	Intersection channelization projects.	5.01
Dinuba	TUL12-144	21500000615	Dinuba Safety Improvements	Install flush median, edgeline and centerline, and Class II and Class III bicycle facilities.	\$1,912	Safety Improvement Program.	1.06
Tulare County	TUL12-144	21500000615	Avenue 144 and Road 96 Intersection	Convert intersection to roundabout.	\$2,973	Safety Improvement Program.	1.06
Tulare County	TUL12-144	21500000615	Piedra Drive	Upgrade Existing Guardrail System.	\$421	Safety Improvement Program.	1.06
Tulare County	TUL16-500	21500000726	Road 160 Sidewalk Improvements, Ivanhoe	In community of Ivanhoe: on Road 160 between Avenue 328 and Avenue 332; construct curb, gutter, sidewalk, ADA ramps, drive approaches, asphalt concrete paveouts, and drainage improvements.	\$1,575	Bicycle and pedestrian facilities.	3.02
Porterville	TUL16-500	21500000726	Butterfield Stage Corridor (W. North Grand Avenue to College Avenue)	In the City of Porterville, on the Butterfield Stage Corridor alignment between W. North Grand Avenue and College Avenue; development of an active transportation corridor (approximately 3.9 miles in length) to include solar lighting, water stations, wayfinding, benches, controlled lighted crossing systems.	\$7,750	Bicycle and pedestrian facilities.	3.02

*Tulare County Association of Governments (TCAG)
Draft Conformity Analysis for the 2023 FTIP and 2022 RTP*

Caltrans	TUL16-500	21500000726	Ivanhoe Safe Routes to School	In Tulare County and the community of Ivanhoe from Avenue 327 to just north of the State Route 216 and Avenue 328 intersection; construction of pedestrian and bicycle improvements including sidewalks, a shared-use path, railroad crossings, bicycle amenities, and transit facilities.	\$1,788	Bicycle and pedestrian facilities.	3.02
Tulare County	TUL16-500	21500000726	Tipton Sidewalk Improvements Project	In the community of Tipton, on Evans Road between Avenue 152 and Lerda Avenue, and along Woods Avenue between Thompson Road and Newman Road; construction of curb & gutter, sidewalk, curb ramps, drive approaches, asphalt concrete paveouts, crossing-surface improvements, and pedestrian related drainage improvements.	\$3,430	Bicycle and pedestrian facilities.	3.02
Tulare County	TUL11-120	21500000549	Bridge No. 46C0004, Co Rd D112, Over North Branch Tule River, 1.1 Mi N Of Ave 160.	Replace 2 Lane Bridge with a 2 Lane Bridge	\$3,015	Pavement resurfacing and/or rehabilitation.	1.10
Tulare County	TUL11-120	21500000549	Bridge No. 46C0013, Road D112, Over Bates Slough, South Of Ave 196.	Replace 2 Lane Bridge with 2 Lane Bridge	\$1,620	Pavement resurfacing and/or rehabilitation.	1.10
Tulare County	TUL11-120	21500000549	Bridge No. 46C0025, Ave 152, Over Tule River, 1.25 Mi W Of Rd 224.	Replace 2 Lane Bridge with 2 Lane Bridge	\$18,327	Pavement resurfacing and/or rehabilitation.	1.10
Tulare County	TUL11-120	21500000549	Bridge No. 46C0133, Mountain 109, Over White River, 8 Mi Se Fountain Springs.	Replace 1 Lane Bridge with 2 Lane Bridge. No added lane capacity.	\$4,065	Pavement resurfacing and/or rehabilitation.	1.10
Tulare County	TUL11-120	21500000549	Bridge No. 46C0162, Balch Park Road, Over Rancheria Creek, 3.41 Mi E Of Balch Park.	Replace 1 Lane Bridge with 2 lane bridge. No added lane capacity.	\$3,315	Pavement resurfacing and/or rehabilitation.	1.10

*Tulare County Association of Governments (TCAG)
Draft Conformity Analysis for the 2023 FTIP and 2022 RTP*

Tulare County	TUL11-120	21500000549	Bridge No. 46C0195, M348, Over S Fk Kaweah River, 11.10 Mi Se Of M347.	Replace 1 lane bridge with 1 lane bridge..	\$5,156	Pavement resurfacing and/or rehabilitation.	1.10
Tulare County	TUL11-120	21500000549	Bridge No. 46C0196, M375A Mnrl King Rd Over East Fork Kaweah River, 6.68 Mi E Of Sr 198.	Replace 2 Lane Bridge as 2 Lane Bridge	\$11,155	Pavement resurfacing and/or rehabilitation.	1.10
Tulare County	TUL11-120	21500000549	Bridge No. 46C0219, Ave 424, Over Traver Canal, 0.25 Mi East Of Rd 64.	Replace 2 lane bridge with 2 lane bridge.	\$3,024	Pavement resurfacing and/or rehabilitation.	1.10
Tulare County	TUL11-120	21500000549	Bridge No. 46C0263, Avenue 174 Over Friant-Kern Canal, 0.3 Mi West Of Road 232.	Replace 2 Lane Bridge with 2 Lane Bridge	\$4,257	Pavement resurfacing and/or rehabilitation.	1.10
Tulare County	TUL11-120	21500000549	Bridge No. 46C0340, Ave 428, Over Sand Creek, 0.25 Mi E Of Sr 63.	Replace 2 Lane Bridge with 2 Lane Bridge	\$3,025	Pavement resurfacing and/or rehabilitation.	1.10
Tulare County	TUL11-120	21500000549	Bridge No. 46C0345, Ave 392 Over Sand Creek, 0.4 Mi E Of Road 108.	Replace 2 Lane Bridge with 2 Lane Bridge	\$2,495	Pavement resurfacing and/or rehabilitation.	1.10
Tulare County	TUL11-120	21500000549	Bridge No. 46C0353, Avenue 376, Over Traver Canal, 0.25 Mi E Of Road 40.	Replace 2 Lane Bridge with 2 Lane Bridge	\$1,700	Pavement resurfacing and/or rehabilitation.	1.10
Tulare County	TUL11-120	21500000549	Bridge No. 46C0360, Road 204, Over Wutchumna Ditch, 0.1 Mi S Of Ave 336.	Replace 2 Lane Bridge with 2 Lane Bridge.	\$1,869	Pavement resurfacing and/or rehabilitation.	1.10
Tulare County	TUL11-120	21500000549	Bridge No. Pm00148, Bridge Preventive Maintenance Program (Bpmp)	Various bridges in the County of Tulare. Plan List for Group 1	\$1,224	Pavement resurfacing and/or rehabilitation.	1.10

*Tulare County Association of Governments (TCAG)
Draft Conformity Analysis for the 2023 FTIP and 2022 RTP*

Tulare County	TUL11-120	21500000549	Bridge No. Pm00149, Bridge Preventive Maintenance Program (Bpmp)	Various bridges in the County of Tulare. Plan List for Group 5.	\$4,567	Pavement resurfacing and/or rehabilitation.	1.10
Visalia	TUL18-000	21500000753	Goshen-Visalia Corridor Improvement Project	In the City of Visalia, along Goshen Avenue alignment between Camp Drive and Giddings Street; reconstruction of a 6 mile Class I multi-use trail	\$101	Engineering to assess social, economic, and environmental effects of the proposed action or alternatives to that action.	4.05
Visalia	TUL21-000	21500000781	City of Visalia Traffic Signal Interconnect Project	In the City of Visalia, on Houston Avenue between Demaree Street and Giddings Street, on Demaree Street between Campus Avenue and Caldwell Avenue, and on Ben Maddox Way between Goshen Avenue and St. John's Parkway; install fiber optic cable within existing traffic signal conduit.	\$1,265	Intersection signalization projects at individual intersections.	5.02
Visalia	TUL21-000	21500000781	Burke Street and St. John's Parkway Traffic Signal	At the intersection of Burke Street and St. John's Parkway; installation of traffic signal and connection to signal interconnect network at Ben Maddox Way and St. John's Parkway	\$750	Intersection signalization projects at individual intersections.	5.02
Visalia	TUL21-000	21500000781	Akers Street Traffic Signal Interconnect Plan	Preparation and implementation of traffic signal coordination plans for the signalized intersections of Akers and Hillsdale and Akers and Cypress to operate in conjunction with the Caltrans traffic signals at Akers and Mineral King and Akers and Noble Avenue.	\$80	Intersection signalization projects at individual intersections.	5.02
TCRTA	TUL16-204	21500000727	TCRTA Operating Assistance	Transit operating assistance for Tulare County Regional Transit Agency using FTA 5307	\$28,000	Operating assistance to transit agencies.	2.01
Visalia	TUL16-204	21500000727	Visalia Transit Operating Assistance	Transit operating assistance for Visalia City Transit using FTA 5307	\$24,000	Operating assistance to transit agencies.	2.01

*Tulare County Association of Governments (TCAG)
Draft Conformity Analysis for the 2023 FTIP and 2022 RTP*

TCRTA	TUL16-204	21500000727	TCRTA Operating Assistance	Transit operating assistance for Tulare County Regional Transit Agency using FTA 5311	\$10,000	Operating assistance to transit agencies.	2.01
Caltrans	TUL12-175	21500000501	Pavement Resurfacing and/or Rehabilitation-SHOPP Roadway Preservation	In and near Visalia, from Route 198 to east of North McAuliff Street. Rehabilitate roadway by replacing distressed asphalt, provide non-motorized transportation facilities and bring Americans with Disabilities Act (ADA) facilities to current standards.	\$26,300	Pavement resurfacing and/or rehabilitation.	1.10
Caltrans	TUL12-175	21500000501	Pavement Resurfacing and/or Rehabilitation-SHOPP Roadway Preservation	Near Visalia, from Route 198 to Fresno County line at various locations. Rehabilitate drainage systems.	\$18,978	Pavement resurfacing and/or rehabilitation.	1.10
Caltrans	TUL12-175	21500000501	Pavement Resurfacing and/or Rehabilitation-SHOPP Roadway Preservation	Near Earlimart, from County line Road Overcrossing to 0.7 mile north of Court Avenue Overcrossing. Rehabilitate roadway, construct median concrete barrier, replace signs, rehabilitate drainage systems, upgrade Transportation Management System (TMS) elements, and replace signs.	\$74,335	Pavement resurfacing and/or rehabilitation.	1.10
Caltrans	TUL12-175	21500000501	Pavement Resurfacing and/or Rehabilitation-SHOPP Roadway Preservation	In the city of Tulare, from Paige Avenue to Prosperity Avenue Overcrossing. Rehabilitate roadway, upgrade lighting and Transportation Management System (TMS) elements, replace signs, rehabilitate drainage systems, and enhance highway worker safety.	\$37,390	Pavement resurfacing and/or rehabilitation.	1.10
Caltrans	TUL12-175	21500000501	Pavement Resurfacing and/or Rehabilitation-SHOPP Roadway Preservation	In and near the city of Tulare, from 0.7 mile north of Avenue 152 Overcrossing to Fresno County line (PM 20.2/R53.939) at various locations. Rehabilitate drainage systems.	\$17,970	Pavement resurfacing and/or rehabilitation.	1.10
Caltrans	TUL12-175	21500000501	Pavement Resurfacing and/or Rehabilitation-SHOPP Roadway Preservation	In Tulare County, from Kings County line to east of Sequoia National Park Boundary at various locations. Rehabilitate drainage systems.	\$23,484	Pavement resurfacing and/or rehabilitation.	1.10

*Tulare County Association of Governments (TCAG)
Draft Conformity Analysis for the 2023 FTIP and 2022 RTP*

Caltrans	TUL12-175	21500000501	Pavement Resurfacing and/or Rehabilitation-SHOPP Roadway Preservation	In Visalia, from south of Caldwell Avenue to Route 198. Rehabilitate pavement, upgrade Transportation Management System (TMS) elements, replace signs, and upgrade facilities to Americans with Disabilities Act (ADA) standards.	\$19,235	Pavement resurfacing and/or rehabilitation.	1.10
Tulare	TUL13-700	21500000624	K Street Reconstruction	In the City of Tulare, from the south side of the intersection of K Street and Paige Avenue to the south side of the intersection of K Street and Olsen Avenue, as well as the Blackstone Avenue cul-de-sac on the east side of K Street; reconstruct roadway.	\$7,626	Pavement resurfacing and/or rehabilitation.	1.10
Visalia	TUL13-700	21500000624	Tulare Avenue Rehabilitation	In the City of Visalia, on Tulare Avenue from Demaree Avenue to Roeben Street; rehabilitate roadway	\$3,286	Pavement resurfacing and/or rehabilitation.	1.10
Visalia	TUL16-205	21500000741	Visalia City Transit Bus Purchases	Purchase of four (4) new buses to replace existing Visalia City Transit buses	\$4,400	Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet.	2.10
TCRTA	TUL16-205	21500000741	TCRTA Transit Bus Purchases	Purchase of new buses to replace existing TCRTA buses	\$3,680	Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet.	2.10
Porterville	TUL16-205	21500000741	Porterville City Transit Bus Purchases	Purchase of three (3) new electric buses for Porterville City Transit	\$2,748	Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet.	2.10
Visalia	TUL16-205	21500000741	Visalia City Transit Bus Purchases	Purchase 2 Electric Buses for Visalia City Transit	\$1,956	Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet.	2.10

*Tulare County Association of Governments (TCAG)
Draft Conformity Analysis for the 2023 FTIP and 2022 RTP*

Caltrans	TUL12-170	21500000381	Safety Improvements-SHOPP Collision Reduction Program	Near Kingsburg, from east of Madsen Avenue to Road 56. Install centerline rumble strips, replace Transportation Management System (TMS) elements and upgrade striping, pavement markings, and roadside signs.	\$4,270	Safety Improvement Program.	1.06
Caltrans	TUL12-170	21500000381	Safety Improvements-SHOPP Collision Reduction Program	Near Porterville, from 0.1 mile west to 0.1 mile east of Rockford Road. Construct roundabout.	\$10,100	Safety Improvement Program.	1.06
Caltrans	TUL20-003	21500000773	State Route 190 and Plano Street Roundabout	In City of Porterville at intersection of State Route 190 and S. Plano Street; construct roundabout.	\$8,386	Intersection channelization projects.	5.01
Caltrans	TUL18-102	21500000759	State Route 190 and Westwood Roundabout and Operational Improvements	Near Porterville: at the intersection of State Route 190 and Westwood Avenue; construct a roundabout and intersection improvements.	\$8,960	Interchange reconfiguration projects.	5.04
Woodlake	TUL21-001	21500000782	State Route 245 and Cajon Avenue Roundabout	In the City of Woodlake at the intersection of State Route 245 and Cajon Avenue; construct new roundabout.	\$4,551	Intersection channelization projects.	5.01

APPENDIX C

CONFORMITY ANALYSIS DOCUMENTATION

Tulare County Association of Governments (TCAG)
 Draft Conformity Analysis for the 2023 FTIP and 2022 RTP

EMFAC Emissions (tons/day)

Tulare

<u>Pollutant</u>	<u>Source</u>	<u>Description</u>		2023	2026	2029	2031	2037	2046
Ozone 2008 and 2015 standards (2016 Ozone SIP)	EMFAC 2014 (Summer Run)	ROG Total Exhaust (All Vehicles Total)		2.27	1.96	1.74	1.59	1.26	1.07
		Conformity Total		2.30	2.00	1.80	1.60	1.30	1.10
		Ozone		4.48	3.85	3.41	3.19	2.79	2.59
2008 and 2015 standards (2016 Ozone SIP)	EMFAC 2014 (Summer Run)	NOx Total Exhaust (All Vehicles Total)		4.48	3.85	3.41	3.19	2.79	2.59
		Conformity Total		4.50	3.90	3.50	3.20	2.80	2.60
PM-10 (2007 Maintenance SIP)	EMFAC 2014 (Annual Run)	PM-10 Total (All Vehicles Total) * includes tire & brake wear		0.68	0.68	0.68	0.70	0.72	
		Conformity Total		0.68	0.68	0.70	0.72		
		PM-10		6.36	3.55	2.90	2.68		
(2007 Maintenance SIP)	EMFAC 2014 (Annual Run)	NOx Total Exhaust (All Vehicles Total)		6.36	3.55	2.90	2.68		
		Conformity Total		6.36	3.55	2.90	2.68		
PM2.5 24-hour 1997 standard (2018 PM2.5 SIP)	EMFAC 2014 (Annual Run)	PM2.5 Total Exhaust (All Vehicles Total) * includes tire & brake wear		0.28	0.28	0.28	0.29	0.29	
		Conformity Total		0.30	0.30	0.30	0.30		
		PM2.5 24-hour		4.69	3.55	2.90	2.68		
1997 standard (2018 PM2.5 SIP)	EMFAC 2014 (Annual Run)	NOx Total Exhaust (All Vehicles Total)		4.69	3.55	2.90	2.68		
		Conformity Total		4.70	3.60	2.90	2.70		

Tulare County Association of Governments (TCAG)
Draft Conformity Analysis for the 2023 FTIP and 2022 RTP

PM2.5 Annual 1997 standard (2018 PM2.5 SIP)	EMFAC 2014 (Annual Run)	PM2.5 Total Exhaust (All Vehicles Total)	2023	2029	2037	2046	
		* includes tire & brake wear	0.28	0.28	0.29	0.29	
		Conformity Total	0.30	0.30	0.30	0.30	
PM2.5 Annual 1997 standard (2018 PM2.5 SIP)	EMFAC 2014 (Annual Run)	NOx Total Exhaust (All Vehicles Total)	4.69	3.55	2.90	2.68	
		Conformity Total	4.70	3.60	2.90	2.70	
PM2.5 24-hour 2006 standard (2018 PM2.5 SIP)	EMFAC 2014 (Winter Run)	PM2.5 Total Exhaust (All Vehicles Total)	2023	2024	2031	2037	2046
		* includes tire & brake wear	0.28	0.28	0.28	0.29	0.29
		Conformity Total	0.30	0.30	0.30	0.30	0.30
PM2.5 24-hour 2006 standard (2018 PM2.5 SIP)	EMFAC 2014 (Winter Run)	NOx Total Exhaust (All Vehicles Total)	4.84	4.58	3.41	2.96	2.74
		Conformity Total	4.90	4.60	3.50	3.00	2.80
PM2.5 Annual 2012 standard Moderate Area 2018 PM2.5 SIP)	EMFAC 2014 (Annual Run)	PM2.5 Total Exhaust (All Vehicles Total)	2022	2025	2029	2037	2046
		* includes tire & brake wear	0.29	0.28	0.28	0.29	0.29
		Conformity Total	0.30	0.30	0.30	0.30	0.30
PM2.5 Annual 2012 standard Moderate Area 2018 PM2.5 SIP)	EMFAC 2014 (Annual Run)	NOx Total Exhaust (All Vehicles Total)	6.36	4.22	3.55	2.90	2.68
		Conformity Total	6.40	4.30	3.60	2.90	2.70

Tulare County Association of Governments (TCAG)
Draft Conformity Analysis for the 2023 FTIP and 2022 RTP

UPCOMING BUDGET TEST

(Note: EPA Action is Pending as of This Analysis; The 2012 PM2.5 Moderate Budget Test Above Will be Used if EPA Doesn't Determine Adequacy or Approval of the New Serious Area Budgets before Federal Approval of the 2022 RTP Conformity Analysis)

			2022	2025	2029	2037	2046
PM2.5 Annual 2012 standard (Serious Area 2018 PM2.5 SIP)	EMFAC 2014 (Annual Run)	PM2.5 Total Exhaust (All Vehicles Total)	0.29	0.28	0.28	0.29	0.29
		* includes tire & brake wear					
		Conformity Total	0.30	0.30	0.30	0.30	0.30
PM2.5 Annual 2012 standard (Serious Area 2018 PM2.5 SIP)	EMFAC 2014 (Annual Run)	NOx Total Exhaust (All Vehicles Total)	6.36	4.22	3.55	2.90	2.68
		Conformity Total	6.40	4.30	3.60	2.90	2.70

Tulare County Association of Governments (TCAG)
 Draft Conformity Analysis for the 2023 FTIP and 2022 RTP

2022 RTP Conformity Analysis Results Summary -- Tulare

Standard	Analysis Year	Emissions Total		DID YOU PASS?	
		ROG (tons/day)	NOx (tons/day)	ROG	NOx
2008 and 2015 Ozone	2023 Budget	2.4	4.6		
	2023	2.3	4.5	YES	YES
	2026 Budget	2.1	4.0		
	2026	2.0	3.9	YES	YES
	2029 Budget	1.8	3.7		
	2029	1.8	3.5	YES	YES
	2031 Budget	1.7	3.5		
	2031	1.6	3.2	YES	YES
	2037	1.3	2.8	YES	YES
	2046	1.1	2.6	YES	YES
Standard	Analysis Year	Emissions Total		DID YOU PASS?	
PM-10		PM-10 (tons/day)	NOx (tons/day)	PM-10	NOx
	2020 Budget	3.4	8.4		
	2022	2.5	6.4	YES	YES
	2020 Budget	3.4	8.4		
	2029	2.6	3.6	YES	YES
	2020 Budget	3.4	8.4		
	2037	2.5	2.9	YES	YES
	2020 Budget	3.4	8.4		
	2046	2.6	2.7	YES	YES

PM-10	Total On-Road Exhaust		Paved Road Dust		Unpaved Road Dust		Road Construction Dust		Total	
	PM-10	Nox	PM-10	Nox	PM-10	Nox	PM-10	Nox	PM-10	Nox
2022	0.680	6.358	0.901		0.757		0.160		2.5	6.4
2029	0.683	3.552	0.948		0.757		0.262		2.6	3.6
2037	0.698	2.895	0.990		0.757		0.096		2.5	2.9
2046	0.716	2.684	1.026		0.757		0.135		2.6	2.7

*Tulare County Association of Governments (TCAG)
Draft Conformity Analysis for the 2023 FTIP and 2022 RTP*

Standard	Analysis Year	Emissions Total		DID YOU PASS?	
		PM2.5 (tons/day)	NOx (tons/day)	PM2.5	NOx
1997 24-Hour PM2.5 Standard	2020 Budget	0.4	8.5		
	2023	0.3	4.7	YES	YES
	2020 Budget	0.4	8.5		
	2029	0.3	3.6	YES	YES
	2020 Budget	0.4	8.5		
	2037	0.3	2.9	YES	YES
	2020 Budget	0.4	8.5		
	2046	0.3	2.7	YES	YES

Standard	Analysis Year	Emissions Total		DID YOU PASS?	
		PM2.5 (tons/day)	NOx (tons/day)	PM2.5	NOx
1997 Annual PM2.5 Standard	2023 Budget	0.4	5.2		
	2023	0.3	4.7	YES	YES
	2023 Budget	0.4	5.2		
	2029	0.3	3.6	YES	YES
	2023 Budget	0.4	5.2		
	2037	0.3	2.9	YES	YES
	2023 Budget	0.4	5.2		
	2046	0.3	2.7	YES	YES

*Tulare County Association of Governments (TCAG)
Draft Conformity Analysis for the 2023 FTIP and 2022 RTP*

Standard	Analysis Year	Emissions Total		DID YOU PASS?	
		PM2.5 (tons/day)	NOx (tons/day)	PM2.5	NOx
2006 PM2.5 Winter 24- Hour Standard	2023 Budget	0.4	5.3		
	2023	0.3	4.9	YES	YES
	2024 Budget	0.4	5.1		
	2024	0.3	4.6	YES	YES
	2024 Budget	0.4	5.1		
	2031	0.3	3.5	YES	YES
	2024 Budget	0.4	5.1		
	2037	0.3	3.0	YES	YES
	2024 Budget	0.4	5.1		
	2046	0.3	2.8	YES	YES

Standard	Analysis Year	Emissions Total		DID YOU PASS?	
		PM2.5 (tons/day)	NOx (tons/day)	PM2.5	NOx
2012 Annual PM2.5 Standard (Moderate)	2022 Budget	0.4	6.9		
	2022	0.3	6.4	YES	YES
	2022 Budget	0.4	6.9		
	2025	0.3	4.3	YES	YES
	2022 Budget	0.4	6.9		
	2029	0.3	3.6	YES	YES
	2022 Budget	0.4	6.9		
	2037	0.3	2.9	YES	YES
	2025 Budget	0.4	6.9		
	2046	0.3	2.7	YES	YES

Tulare County Association of Governments (TCAG)
Draft Conformity Analysis for the 2023 FTIP and 2022 RTP

UPCOMING BUDGET TEST

(Note: EPA Action is Pending as of This Analysis; The 2012 PM2.5 Moderate Budget Test Above Will be Used if EPA Doesn't Determine Adequacy or Approval of the New Serious Area Budgets before Federal Approval of the 2022 RTP Conformity Analysis)

Standard	Analysis Year	Emissions Total		DID YOU PASS?	
		PM2.5 (tons/day)	NOx (tons/day)	PM2.5	NOx
2012 Annual PM2.5 Standard (Serious)	2022 Budget	0.4	6.9		
	2022	0.3	6.4	YES	YES
	2025 Budget	0.4	6.9		
	2025	0.3	4.3	YES	YES
	2025 Budget	0.4	6.9		
	2029	0.3	3.6	YES	YES
	2025 Budget	0.4	6.9		
	2037	0.3	2.9	YES	YES
	2025 Budget	0.4	6.9		
	2046	0.3	2.7	YES	YES

Road Construction Dust

TULARE

Description	2022		2029		2037		2046	
	Year	Lane Miles	Year	Lane Miles	Year	Lane Miles	Year	Lane Miles
	Baseline	2005	3986	2022	4168.61	2029	4291.15	2037
Horizon	2022	4,169	2029	4,291	2037	4,342	2046	4,423
Difference	17	183	7	123	8	51	9	81
Lane Miles per Year		11		18		6		9
Acres Disturbed		42		68		25		35
Acre-Months		750		1222		447		629
Emissions (tons/year)		82.497		134.444		49.200		69.154
Annual Average Day Emissions (tons)		0.226		0.368		0.135		0.189
District Rule 8021 Control Rates		0.290		0.290		0.290		0.290
Total Emissions (tons per day)		0.160		0.262		0.096		0.135

Tulare County Association of Governments (TCAG)
 Draft Conformity Analysis for the 2023 FTIP and 2022 RTP

Paved Road Dust Emissions (tons/day)

TULARE 2022

	VMT Daily	VMT (million/year)	Base Emissions (PM10 tpy)	Rain Adj. Emissions (PM10 tpy)	Rain Adj. Emissions (PM10 tons/day)	District Rule 8061/ISR Control Rates	Control- Adjusted Emissions
Enter Freeway VMT ==>	Freeway	3,893,237	1,421	108.580	105.379	0.289	0.267
Enter Arterial VMT ==>	Arterial	6,412,890	2,341	297.616	288.844	0.791	0.568
Enter Collector VMT ==>	Collector	372,780	136	17.300	16.790	0.046	0.027
	Urban	19,296	7	6.709	6.511	0.018	0.012
Enter Total of Urban and Rural Local VMT Here =>	Rural	7,137	3	10.734	10.417	0.029	0.026
	Totals	10,705,339	3,907	440.939	427.942	1.172	0.901

TULARE 2029

	VMT Daily	VMT (million/year)	Base Emissions (PM10 tpy)	Rain Adj. Emissions (PM10 tpy)	Rain Adj. Emissions (PM10 tons/day)	District Rule 8061/ISR Control Rates	Control- Adjusted Emissions
Enter Freeway VMT ==>	Freeway	4,103,744	1,498	114.451	111.077	0.304	0.281
Enter Arterial VMT ==>	Arterial	6,724,475	2,454	312.077	302.878	0.830	0.596
Enter Collector VMT ==>	Collector	430,808	157	19.993	19.404	0.053	0.032
	Urban	19,777	7	6.876	6.673	0.018	0.012
Enter Total of Urban and Rural Local VMT Here =>	Rural	7,315	3	11.001	10.677	0.029	0.027
	Totals	11,286,118	4,119	464.398	450.710	1.235	0.948

TULARE 2037

	VMT Daily	VMT (million/year)	Base Emissions (PM10 tpy)	Rain Adj. Emissions (PM10 tpy)	Rain Adj. Emissions (PM10 tons/day)	District Rule 8061/ISR Control Rates	Control- Adjusted Emissions
Enter Freeway VMT ==>	Freeway	4,281,381	1,563	119.405	115.885	0.317	0.294
Enter Arterial VMT ==>	Arterial	7,004,093	2,556	325.053	315.472	0.864	0.621
Enter Collector VMT ==>	Collector	486,651	178	22.585	21.919	0.060	0.036
	Urban	20,140	7	7.002	6.796	0.019	0.013
Enter Total of Urban and Rural Local VMT Here =>	Rural	7,449	3	11.203	10.873	0.030	0.027
	Totals	11,799,713	4,307	485.249	470.946	1.290	0.990

TULARE 2046

	VMT Daily	VMT (million/year)	Base Emissions (PM10 tpy)	Rain Adj. Emissions (PM10 tpy)	Rain Adj. Emissions (PM10 tons/day)	District Rule 8061/ISR Control Rates	Control- Adjusted Emissions
Enter Freeway VMT ==>	Freeway	4,430,525	1,617	123.564	119.922	0.329	0.304
Enter Arterial VMT ==>	Arterial	7,253,418	2,647	336.624	326.702	0.895	0.643
Enter Collector VMT ==>	Collector	529,782	193	24.587	23.862	0.065	0.039
	Urban	20,597	8	7.161	6.950	0.019	0.013
Enter Total of Urban and Rural Local VMT Here =>	Rural	7,618	3	11.457	11.120	0.030	0.028
	Totals	12,241,939	4,468	503.394	488.556	1.339	1.026

*Tulare County Association of Governments (TCAG)
Draft Conformity Analysis for the 2023 FTIP and 2022 RTP*

Unpaved Road Dust Emissions (tons/day)

TULARE 2022

	Miles	Vehicle Passes per Day	VMT (1000/year)	Base Emissions (PM10 tpy)	Rain Adj. Emissions (PM10 tpy)	Rain Adj. Emissions (PM10 tons/day)	District Rule 8061/ISR Control Rates	Control-Adjusted Emissions
City/County	128.6	10	469.4	469.390	414.047	1.134	0.333	0.757

TULARE 2029

	Miles	Vehicle Passes per Day	VMT (1000/year)	Base Emissions (PM10 tpy)	Rain Adj. Emissions (PM10 tpy)	Rain Adj. Emissions (PM10 tons/day)	District Rule 8061/ISR Control Rates	Control-Adjusted Emissions
City/County	128.6	10	469.4	469.390	414.047	1.134	0.333	0.757

TULARE 2037

	Miles	Vehicle Passes per Day	VMT (1000/year)	Base Emissions (PM10 tpy)	Rain Adj. Emissions (PM10 tpy)	Rain Adj. Emissions (PM10 tons/day)	District Rule 8061/ISR Control Rates	Control-Adjusted Emissions
City/County	128.6	10	469.4	469.390	414.047	1.134	0.333	0.757

TULARE 2046

	Miles	Vehicle Passes per Day	VMT (1000/year)	Base Emissions (PM10 tpy)	Rain Adj. Emissions (PM10 tpy)	Rain Adj. Emissions (PM10 tons/day)	District Rule 8061/ISR Control Rates	Control-Adjusted Emissions
City/County	128.6	10	469.4	469.390	414.047	1.134	0.333	0.757

APPENDIX D

**TIMELY IMPLEMENTATION DOCUMENTATION FOR
TRANSPORTATION CONTROL MEASURES**

**Tulare County Association of Governments
RACM Timely Implementation Documentation**

Agency	RACM Commitment	Measure Title	Measure Description (not verbatim)	Implementation Status (as of February 2021)	Conformity Analysis for the 2023 FTIP and 2022 RTP (as of May 2022)
TCAG	TU3.3	Employer Rideshare Program Incentives	TCAG Outreach program through 2006	Commitment complete.	Commitment complete.
Exeter	TU9.5	Encouragement of Bicycle Travel	Implement projects that fund, construct, or promote pedestrian and bicycle facilities.	Commitment complete	Commitment complete
Farmersville	TU1.5	Expansion of Public Transportation Systems	Seek opportunities to ensure more frequent stops of Orange Line in City and encourage ridership by making bus schedules available at City Hall and reminders on utility bills in 2002	Commitment complete.	Commitment complete.
Farmersville	TU5.5	Removal of On-Street Parking	Consider removing on-street parking on Visalia Road and some in downtown during FY 2002/03	Commitment complete.	Commitment complete.

**Tulare County Association of Governments
RACM Timely Implementation Documentation**

Agency	RACM Commitment	Measure Title	Measure Description (not verbatim)	Implementation Status (as of February 2021)	Conformity Analysis for the 2023 FTIP and 2022 RTP (as of May 2022)
Farmersville	TU5.9	Bus Pullouts in Curbs for Passenger Loading	Consider bus pull out on Visalia Road and Downtown during FY 2002/03	Commitment complete.	Commitment complete.
Farmersville	TU5.16	Adaptive traffic signals and signal timing	New traffic signals will have adaptive traffic signals and signal timing as they are installed	The proposed traffic signal at Road 168 and Avenue 288 (Walnut Avenue) is still proposed in the future when an additional school is constructed. The existing Farmersville Boulevard/Avenue 288 (Walnut Avenue) traffic signal is still to be modified. The project is in design and should go to bid in late 2020 or early 2021.	Commitment complete.
Lindsay	TU1.7	Free transit during special events	Trolley rides will be given during the annual Chili Cook-off celebration through October 2005	Commitment complete.	Commitment complete.

**Tulare County Association of Governments
RACM Timely Implementation Documentation**

Agency	RACM Commitment	Measure Title	Measure Description (not verbatim)	Implementation Status (as of February 2021)	Conformity Analysis for the 2023 FTIP and 2022 RTP (as of May 2022)
Lindsay	TU5.3	Reduce Traffic Congestion at Major Intersections	Five pedestrian corridor projects by Fall 2003	Commitment complete.	Commitment complete.
Lindsay	TU5.4	Site-Specific Transportation Control Measures	Five pedestrian corridor projects by Fall 2003	Commitment complete.	Commitment complete.
Lindsay	TU6.1	Park and Ride Lots	Continue to use and maintain two park and ride lots from 2002 - 2005	Commitment complete.	Commitment complete.
Lindsay	TU7.3	Involve school districts to encourage walking to school	Five pedestrian corridor projects by Fall 2003	Commitment complete.	Commitment complete.
Lindsay	TU9.2	Encouragement of Pedestrian Travel	Five pedestrian corridor projects by Fall 2003	Commitment complete.	Commitment complete.
Lindsay	TU9.3	Bicycle/Pedestrian Program	Five pedestrian corridor projects by Fall 2003	Commitment complete.	Commitment complete.
Lindsay	TU9.5	Encouragement of Bicycle Travel	Five pedestrian corridor projects by Fall 2003	Commitment complete.	Commitment complete.
Lindsay	TCM4	Bicycle Programs	Five pedestrian corridor projects by Fall 2003	Commitment complete.	Commitment complete.
Porterville	TU1.2	Transit Access to Airports	Provide demand response transit to and from the airport through at least 2007.	Porterville COLT continues to provide this service.	Porterville COLT continues to provide this service.

**Tulare County Association of Governments
RACM Timely Implementation Documentation**

Agency	RACM Commitment	Measure Title	Measure Description (not verbatim)	Implementation Status (as of February 2021)	Conformity Analysis for the 2023 FTIP and 2022 RTP (as of May 2022)
Porterville	TU1.6	Transit Service Improvements in Combination with Park-and-Ride Lots and Parking Management	Create a bus stop adjacent to a proposed new Park-and-Ride lot prior to end of 2003.	Commitment Complete	Commitment complete.
Porterville	TU1.7	Free transit during special events	Provide free shuttle bus service during the Sutton Iris Farm Festival through at least 2006.	Commitment complete.	Commitment complete.
Porterville	TU5.4	Site-Specific Transportation Control Measures	Construct left turn lanes at designated intersections by 2003.	Commitment complete.	Commitment complete.
Porterville	TU5.9	Bus Pullouts in Curbs for Passenger Loading	Construct one bus pull-out on Olive Avenue at Westwood; construct others as needed.	The bus pullout located at Olive and Westwood has been completed. The City has also completed bus turnouts at Olive and Plano, as well as at Putnam and Pearson. The City will be evaluating improving other bus stops with available funding.	The city continues to evaluate improvements to bus stops.
Porterville	TU5.16	Adaptive traffic signals and signal timing	Adaptive traffic signals will be installed on designated corridors in the City by 2003.	Commitment complete.	Commitment complete.

**Tulare County Association of Governments
RACM Timely Implementation Documentation**

Agency	RACM Commitment	Measure Title	Measure Description (not verbatim)	Implementation Status (as of February 2021)	Conformity Analysis for the 2023 FTIP and 2022 RTP (as of May 2022)
Porterville	TU9.5	Encouragement of Bicycle Travel	Hold dedication ceremonies for future phases of Tule River Parkway that encourage public use of bikeways through 2003.	Commitment complete.	Commitment complete.
Porterville	TU10.2	Bike Racks on Buses	Equip new buses with bike racks through at least 2006.	Commitment complete.	Commitment complete.
Porterville	TCM3	Rideshare Programs	Publish an article in "The Pen" that encourages rideshare within the City. Implementation by FY 2002/03.	Commitment complete.	Commitment complete.
Tulare	TU1.1	Regional Express Bus Program	Provide regional express bus service to connect with other transit services through at least 2007.	The Tulare InterModal Express (TIME) fixed route service continues to provide connections to Visalia Transit and TCaT.	The Tulare InterModal Express (TIME) fixed route service continues to provide connections to Visalia Transit and TCaT.
Tulare	TU1.2	Transit Access to Airports	Provide transit access to local airports through connection with other transit lines through at least 2007.	The TIME fixed route service continues to provide connections to Visalia Transit which provides service to the Visalia Municipal Airport and the Fresno Airport (via the V-Line).	The TIME fixed route service continues to provide connections to Visalia Transit which provides service to the Visalia Municipal Airport and the Fresno Airport (via the V-Line).

**Tulare County Association of Governments
RACM Timely Implementation Documentation**

Agency	RACM Commitment	Measure Title	Measure Description (not verbatim)	Implementation Status (as of February 2021)	Conformity Analysis for the 2023 FTIP and 2022 RTP (as of May 2022)
Tulare	TU1.5	Expansion of Public Transportation Systems	Provide for the expansion and enhancement of existing transit services within the City through Unmet Needs and updating the City's Transit Development Plan.	The City continues to participate in the Unmet Needs Process. The City continues to implement the 2014 Short Range Transit Plan.	The City continues to participate in the Unmet Needs Process. The City continues to implement the 2014 Short Range Transit Plan.
Tulare	TU1.6	Transit Service Improvements in Combination with Park-and-Ride Lots and Parking Management	The City will provide of adequate parking at transit facilities as park-and-ride lots. Implementation from 1999 through FY 2002/03.	Commitment complete.	Commitment complete.
Tulare	TU1.7	Free transit during special events	Provide free transit service during special events through at least 2007.	Commitment complete.	Commitment complete.
Tulare	TU1.9	Increase parking at transit centers or stops	Encourage transit convenience by providing additional parking at transit centers. Implementation from 1999 through FY 2002/03.	Commitment complete.	Commitment complete.
Tulare	TU5.4	Site-Specific Transportation Control Measures	Install additional traffic signals as warranted.	See Project TID Table	See Project TID Table
Tulare	TU5.9	Bus Pullouts in Curbs for Passenger Loading	Provide bus pull-outs for passenger loading and unloading.	See Project TID Table	See Project TID Table

**Tulare County Association of Governments
RACM Timely Implementation Documentation**

Agency	RACM Commitment	Measure Title	Measure Description (not verbatim)	Implementation Status (as of February 2021)	Conformity Analysis for the 2023 FTIP and 2022 RTP (as of May 2022)
Tulare	TU5.16	Adaptive traffic signals and signal timing	Install adaptive and emergency vehicle pre-emptive traffic signals.	Commitment Complete.	Commitment complete.
Tulare	TU10.2	Bike Racks on Buses	Encourage pedestrian and bicycle travel as an alternative to automobile travel.	The city continues to evaluate potential for additional pedestrian and bicycle projects.	The city continues to evaluate potential for additional pedestrian and bicycle projects.
Tulare	TU15.2	Pedestrian and Bicycle Overpasses Where Safety Dictates	Install pedestrian and bicycle over crosses where safety concerns dictate through at least 2007.	Commitment Complete.	Commitment complete.
Tulare	TU5.6	Reversible Lanes	Implement reversible parking on arterial streets to improve traffic flow.	The City continues to implement reversible parking on arterial streets during the annual World Ag Expos.	The City continues to implement reversible parking on arterial streets during the annual World Ag Expos.
Visalia	TU1.2	Transit Access to Airports	Provide a fixed route transit service to the local airport.	Route 10 continues to provide transportation to the Visalia Airport upon request. The V-Line connects riders to the Fresno Airport.	Route 10 continues to provide transportation to the Visalia Airport upon request. The V-Line connects riders to the Fresno Airport.
Visalia	TU1.5	Expansion of Public Transportation Systems	Expand / enhance transit services through the Short Range Transit Plan.	Visalia Transit continues to implement the approved Short Range Transit Plan.	Visalia Transit continues to implement the approved Short Range Transit Plan.
Visalia	TU1.7	Free transit during special events	Provide free trolley service during special events.	The Visalia Trolley continues to provide free service during special events.	The Visalia Trolley continues to provide free service during special events.

**Tulare County Association of Governments
RACM Timely Implementation Documentation**

Agency	RACM Commitment	Measure Title	Measure Description (not verbatim)	Implementation Status (as of February 2021)	Conformity Analysis for the 2023 FTIP and 2022 RTP (as of May 2022)
Visalia	TU3.3	Employer Rideshare Program Incentives	Provide employee incentives for carpooling, walking, biking to work.	The City of Visalia continues to provide incentives to all employees who carpool, bike, or walk to work.	The City of Visalia continues to provide incentives to all employees who carpool, bike, or walk to work.

Visalia	TU5.2	Coordinate Traffic Signal Systems	Continue to expand the City's coordinated traffic signal system.	<p>The Traffic Management Center has been constructed and the signal interconnect project along Center Avenue, Giddings Street, and Murray Avenue has been completed. The City of Visalia has completed the latest projects for the installation of battery backup systems and emergency vehicle preemption. The City has an ongoing project to install battery backup systems and emergency vehicle preemption equipment on all existing intersections. The construction of new traffic signals includes the battery backup system, emergency vehicle preemption equipment, and the installation of additional conduits to provide for future connection to the City of Visalia's communication network.</p>	<p>The City of Visalia continues to install battery backup systems and emergency vehicle preemption equipment on all existing intersections. The next round of installation of battery backup systems and emergency vehicle preemption equipment on existing traffic signals will begin in the summer of 2022.</p> <p>The Caldwell Ave. from Akers St. to Shady St. Project for roadway improvements has been designed to include signal interconnect along this segment and construction is expected to begin in fall of 2022.</p> <p>The project to install signal interconnect in Ben Maddox Way from Goshen Ave. to Tulare Ave. from Ben Maddox Way to Lovers Lane has been designed and construction will begin in fall of 2022.</p> <p>The project to install signal interconnect in 3 locations, along Ben Maddox Way, Houston Ave. and Demaree St., construction will begin summer of 2023.</p>
---------	-------	-----------------------------------	--	---	---

**Tulare County Association of Governments
 RACM Timely Implementation Documentation**

Agency	RACM Commitment	Measure Title	Measure Description (not verbatim)	Implementation Status (as of February 2021)	Conformity Analysis for the 2023 FTIP and 2022 RTP (as of May 2022)
					<p>The construction of new traffic signals includes the battery backup system, emergency vehicle preemption equipment, installation of additional conduits, and other equipment to facilitate future connection to the City of Visalia's communication network.</p>

**Tulare County Association of Governments
RACM Timely Implementation Documentation**

Agency	RACM Commitment	Measure Title	Measure Description (not verbatim)	Implementation Status (as of February 2021)	Conformity Analysis for the 2023 FTIP and 2022 RTP (as of May 2022)
Visalia	TU5.3	Reduce Traffic Congestion at Major Intersections	Continue to make use of turn lanes, signalization, and median dividers for traffic control.	<p>The City of Visalia continues to evaluate and prioritize intersections to determine the appropriate traffic control measure to be implemented.</p> <ol style="list-style-type: none"> 1. The improvements to the intersection of Demaree Street at Goshen Avenue have been completed in August 2019. 2. The construction of the new traffic signals at the intersections of County Center Street at Houston Avenue and Riggin Avenue at Mooney Boulevard were completed in July 2019. 3. The intersections of County Center Street at Riggin Avenue and Giddings Street at Riggin Avenue will begin construction in the beginning of 2021. 	<p>The City completed the installation of traffic signals at the intersections of Giddings St. at Riggin Ave., County Center at Riggin Ave., in February 2022.</p> <p>A traffic signal and roadway improvements is in the design stage for the intersection of Shirk St. at Walnut Ave and Shirk St. at Doe Ave. Construction is expected to begin in 2023.</p> <p>The modification of the traffic signal and roadway improvements at the intersection of Visalia Parkway at Mooney Blvd. are in the design stage with construction to begin by the end of 2022.</p> <p>The existing in-pavement vehicle detection will be replaced with video detection at the intersections of Plaza Drive at Riggin Ave. and Ferguson Ave. at Plaza Drive by the end of 2022.</p>

Visalia	TU5.4	Site-Specific Transportation Control Measures	Implement geometric traffic control procedures	<p>The City of Visalia continues to implement various geometric traffic control measures based on the evaluation of the intersections and roadway segments within the City of Visalia:</p> <ol style="list-style-type: none"> 1. The City is currently in the right of way acquisition phase as part of the design for the roadway improvements in Caldwell Avenue between Akers Street and Shady Street. The improvements include the installation of a center median. Construction is expected to begin in 2021. 2. The City will begin construction of the traffic signals at the intersections of County Center Street at Riggin Avenue and Giddings Street at Riggin Avenue in 2021. Each intersection will provide protected left turn movements and thru/right turn lanes. 3. SR-198/Akers Street Interchange Improvement Project has been completed which added dual left turn lanes in Akers Street for the north bound and south bound directions. 	<p>The Caldwell Avenue between Akers Street and Shady Steet for roadway improvements includes the installation of center median islands and bicycle lanes. Construction is expected to begin in Fall 2022.</p> <p>The City completed the installation of traffic signals at the intersections of Giddings St. at Riggin Ave., County Center at Riggin Ave., in February 2022.</p> <p>The roundabout at the intersection of Tulare Avenue and Santa Fe Street was completed in April 2021. This project updated the intersection from stop traffic to a yield control and corrected the offset intersection through the roundabout geometry.</p> <p>The Riggin Ave. Widening from Akers St. to Demaree St. Project will widen the road, add additional traffic lanes and bike lanes. Construction is expected to begin in fall 2022.</p> <p>Construction at the intersection of St. John’s Parkway and Burke St. for a new traffic signal and interconnect will begin in Summer of 2023.</p>
---------	-------	---	--	---	---

				<p>4. The construction of the roundabout at the intersection of Tulare Avenue and Santa Fe Street will begin construction in December 2020. The roundabout will add operational efficiencies, improve congestion management, and correct the existing offset geometric configuration.</p>	<p>The Shirk Widening at Mill Creek Project will extend the existing creek culvert, add lanes within the existing right-of-way, and add bike lanes. Construction is expected to begin in late summer of 2023.</p> <p>The Riggin Ave. from Kelsey St. to Shirk St. will be widened from a 2-lane undivided roadway to a 4-lane divided roadway. This project will incorporate center median with landscaping and a protected bike facility. Construction is expected to begin in 2023.</p> <p>The Riggin Ave. from Mooney Blvd. to Conyer St. will be widened from a 2-lane undivided roadway to a 4-lane divided roadway. This project will incorporate protected bike facilities. Construction is expected to begin in 2023.</p> <p>The Caldwell Avenue from Santa Fe to Lovers Lane Project for roadway improvements includes additional lanes and median islands. A Class IV bike lane is included. Construction is expected to begin the summer of 2024.</p>
--	--	--	--	---	--

Visalia	TU9.5	Encouragement of Bicycle Travel	Expand the City's existing bicycle system; work with TCAG on outreach for bicycle programs	<p>The City of Visalia continually performs pavement rehabilitation projects which includes restriping new or existing bike lanes to further expand the bike network.</p> <ol style="list-style-type: none"> 1. Walnut Ave between Santa Fe St and Ben Maddox St will be restriped to accommodate a buffered class II bike lane; one of the first of its kind as a City Project, this will be an on street connector between the Santa Fe Class 1 trail to the Packwood Class 1 Trail. Expected completion by May 2021. 2. Tulare Ave between Cotta St and Demaree St will be rehabilitated. This will include restriping of the existing bike lane to further improve and expand the bicycle network. Expected to begin construction Fall of 2021. 3. Ferguson Ave between Demaree St and Mooney Blvd was rehabilitated which included the restriping of the existing Class II bike lanes. Expected completion November 2020. 	<p>Walnut Ave. Class IV bike lane was completed in March of 2022.</p> <p>Tulare Ave. between Cotta St. and Demaree St. will rehabilitate the roadway and incorporate parking protected Class IV bike lanes. Construction is anticipated in the Fall of 2022.</p> <p>Packwood Creek Trail between Crumal St. and Cedar St. was completed in March of 2022.</p> <p>The Greenway Trail between Mineral King Ave. and Mill Creek will be completed in September of 2022.</p> <p>The Caldwell Avenue from Akers to Shady Project for roadway improvements will include installation of bicycle lanes. Construction is expected to begin in Fall of 2022.</p> <p>The Caldwell Avenue from Santa Fe to Lovers Lane Project for roadway improvements includes additional lanes and median islands. A Class IV bike lane is included. Construction is</p>
---------	-------	---------------------------------	--	---	--

**Tulare County Association of Governments
RACM Timely Implementation Documentation**

Agency	RACM Commitment	Measure Title	Measure Description (not verbatim)	Implementation Status (as of February 2021)	Conformity Analysis for the 2023 FTIP and 2022 RTP (as of May 2022)
					<p>expected to begin the summer of 2024.</p> <p>The Shirk Widening at Mill Creek Project will extend the existing creek culvert, add lanes within the existing right-of-way, and add bike lanes. Construction is expected to begin in late summer of 2023.</p>

**Tulare County Association of Governments
RACM Timely Implementation Documentation**

Agency	RACM Commitment	Measure Title	Measure Description (not verbatim)	Implementation Status (as of February 2021)	Conformity Analysis for the 2023 FTIP and 2022 RTP (as of May 2022)
Visalia	TU10.2	Bike Racks on Buses	Continue to provide bike racks on transit buses.	Numerous buses have been purchased for transit services in the City of Visalia. All buses come equipped with bike racks.	Numerous buses have been purchased for transit services in the City of Visalia. All buses come equipped with bike racks.
Visalia	TCM1	Traffic Flow Improvements	Continue to identify projects that improve traffic flow through the City's 5-Year Capitol Improvement Program	This measure has been implemented through the City's Circulation Element.	This measure has been implemented through the City's Circulation Element.
Visalia	TCM2	Public Transit	Implement Short Range Transit Plan to enhance and expand transit services.	Implementation continues as warranted.	Implementation continues as warranted.
Visalia	TCM4	Bicycle Programs	Continue to seek funding for, and implement bicycle improvements and programs.	The City continues to seek funding for and evaluate bike plan implementation. Implementation is ongoing.	The City continues to seek funding for and evaluate bike plan implementation. Implementation is ongoing.
Woodlake	TU1.5	Expansion of Public Transportation Systems	Expansion and enhancement of existing public transit through at least 2007.	Commitment Complete. Implementation continues.	Commitment Complete. Implementation continues.
Woodlake	TU3.5	Preferential Parking for Carpools and Vanpools	The City of Woodlake will designate preferential parking for carpools and vanpools at City locations through at least 2007.	Commitment Complete. Implementation continues.	Commitment Complete. Implementation continues.

**Tulare County Association of Governments
RACM Timely Implementation Documentation**

Agency	RACM Commitment	Measure Title	Measure Description (not verbatim)	Implementation Status (as of February 2021)	Conformity Analysis for the 2023 FTIP and 2022 RTP (as of May 2022)
Woodlake	TU5.8	On-Street Parking Restrictions	Restrict parking where it impacts traffic safety through at least 2007.	Commitment Complete. No additional parking restrictions have been identified.	Commitment Complete. No additional parking restrictions have been identified.
Woodlake	TU5.19	Internet provided road and route information	Post scheduled road construction on City website through at least 2007.	Commitment Complete. Implementation continues.	Commitment Complete. Implementation continues.
Woodlake	TU7.13	Land use/air quality guidelines	Encourage high density development around transportation centers and the downtown through at least 2007.	Commitment Complete. Implementation ongoing.	Commitment Complete. Implementation continues.
Woodlake	TU7.14	Incentives for cities with good development practices	Require new development and major reconstruction to provide energy efficient lighting through at least 2007.	Commitment Complete. Implementation ongoing.	Commitment Complete. Implementation continues.
Woodlake	TU14.2	Special Event Controls	Reduce mobile source emissions from special event centers through at least 2007.	Commitment Complete.	Commitment complete.
Woodlake	TU14.3	Land Use/Development Alternatives	Promote high-density residential and commercial development in downtown area through at least 2007.	See Measure 7.13	See Measure 7.13

**Tulare County Association of Governments
 RACM Timely Implementation Documentation**

Agency	RACM Commitment	Measure Title	Measure Description (not verbatim)	Implementation Status (as of February 2021)	Conformity Analysis for the 2023 FTIP and 2022 RTP (as of May 2022)
Woodlake	TU14.5	Evaluation of the Air Quality Impacts of New development and Mitigation of Adverse Impacts	Evaluate air quality impacts from new development using CEQA/NEPA process through at least 2007.	Commitment complete. Implementation ongoing.	Commitment complete. Implementation ongoing.
Woodlake	TCM1	Traffic Flow Improvements	Investigate the feasibility of regional cross valley rail and a number of signal and corridor improvements.	Signal improvements continue to be unwarranted.	Signal improvements continue to be unwarranted.

APPENDIX E

PUBLIC MEETING PROCESS DOCUMENTATION

**NOTICE OF PUBLIC HEARING ON THE
DRAFT 2023 FEDERAL TRANSPORTATION IMPROVEMENT PROGRAM,
THE DRAFT 2022 REGIONAL TRANSPORTATION PLAN/SUSTAINABLE
COMMUNITY STRATEGY, CORRESPONDING DRAFT CONFORMITY ANALYSIS,
AND DRAFT ENVIRONMENTAL IMPACT REPORT (SCH# 2021030198)**

NOTICE IS HEREBY GIVEN that the Tulare County Association of Governments will hold a public hearing on June 27, 2022 at 1:00 P.M. at the Tulare County Human Resources & Development Office, 2500 W. Burrel Avenue, Visalia, CA 93291 regarding the Draft 2023 Federal Transportation Improvement Program (2023 FTIP), the Draft 2022 Regional Transportation Plan/Sustainable Community Strategy (2022 RTP/SCS), the corresponding Draft Air Quality Conformity Analysis for the 2023 FTIP and 2022 RTP/SCS, and the Draft Environmental Impact Report (EIR) for the Draft 2022 RTP/SCS. The purpose of the public hearing is to receive public comments on these documents.

- The 2023 FTIP is a near-term listing of capital improvement and operational expenditures utilizing federal and state monies for transportation projects in Tulare County during the next four years.
- The 2022 RTP/SCS the County's long range land use and transportation plan through 2046.
- The corresponding Conformity Analysis contains the documentation to support a finding that the 2023 FTIP and 2022 RTP/SCS meet the federal Clean Air Act air quality conformity requirements for ozone and particulate matter.
- The Draft EIR document provides an analysis of environmental impacts related to the implementation of the Draft RTP/SCS as required by the California Environmental Quality Act.

The public participation efforts for the 2023 FTIP satisfies the program of projects (POP) requirements of the Federal Transit Administration (FTA) Urbanized Area Formula Program Section 5307 and FTA Bus and Bus Facilities Program Section 5339. If no comments are received on the proposed POP, the proposed transit program (funded with FTA 5307 and FTA 5339 dollars) will be the final program.

Individuals with disabilities may call Amie Kane or Servando Quintanilla (559-623-0450) of TCAG (with 3-working-day advance notice) to request auxiliary aids necessary to participate in the public hearing. Translation services are available (with 3-working-day advance notice) to participants speaking any language with available professional translation services.

A 55-day public review and comment period for the 2022 RTP/SCS will commence on Friday, May 20, 2022 and conclude on Thursday, July 14, 2022.

A 45-day public review and comment period for the Draft EIR will commence on Friday, May 20, 2022 and conclude on Tuesday, July 5, 2022.

A concurrent 30-day public review and comment period for the 2023 FTIP and the corresponding Draft Air Quality Conformity Analysis for the 2023 FTIP and 2022 RTP/SCS will commence on Friday, May 20, 2022 and conclude on Tuesday, June 21, 2022.

The draft documents are available for review at the Tulare County Association of Governments office, located at 210 N. Church Street, Suite B, Visalia, CA 93291 and on the TCAG website at www.tularecog.org.

Public comments are welcomed at the hearing.

After considering the comments, the draft documents will be revised as necessary, and the proposed final documents will be considered for adoption, by resolution, by the Tulare County Association of Governments at a regularly scheduled meeting to be held on August 15, 2022. The final documents will then be submitted to state and federal agencies for approval.

Contact Persons:

For questions or comments on the 2022 RTP/SCS, please contact:

Mr. Benjamin Kimball, Deputy Executive Director
Tulare County Association of Governments
210 N. Church Street, Suite B
Visalia, CA 93291
Phone: (559) 623-0450
Email: bkimball@tularecag.ca.gov

For questions or comments on the Draft EIR, 2023 FTIP and/or the Draft Air Quality Conformity Analysis, please contact:

Mr. Gabriel Gutierrez, Senior Regional Planner
Tulare County Association of Governments
210 N. Church Street, Suite B
Visalia, CA 93291
Phone: (559) 623-0450
Email: ggutierrez@tularecag.ca.gov

BEFORE THE
TULARE COUNTY ASSOCIATION OF GOVERNMENTS
COUNTY OF TULARE, STATE OF CALIFORNIA

In the matter of:

APPROVAL OF 2023 FEDERAL)	
TRANSPORTATION IMPROVEMENT)	
PROGRAM, THE 2022 REGIONAL)	
TRANSPORTATION PLAN/SUSTAINABLE)	Resolution No. 2022-XXX
COMMUNITY STRATEGY AND THE)	
CORRESPONDING CONFORMITY)	
ANALYSIS)	

WHEREAS, the Tulare County Association of Governments is a Regional Transportation Planning Agency and a Metropolitan Planning Organization, pursuant to State and Federal designation; and

WHEREAS, federal planning regulations require Metropolitan Planning Organizations to prepare and adopt a long range Regional Transportation Plan (RTP) for their region; and

WHEREAS, Senate Bill (SB) 375 (Steinberg, 2008) requires that Metropolitan Planning Organizations prepare a Sustainable Communities Strategy (SCS) as part of the 2022 RTP that demonstrates how the region will reduce the greenhouse gas emissions (GHG) from automobiles and light trucks to achieve, if there is a feasible way to do so, the applicable greenhouse gas emission reduction targets approved by the California Air Resources Board (ARB), and

WHEREAS, pursuant to SB 375, the applicable ARB per capita GHG emission reduction targets for the Tulare County Association of Governments are 13% below 2005 per capita emissions levels by 2020 and 16% below 2005 per capita emissions levels by 2035; and

WHEREAS, pursuant to SB 375, the SCS must: (1) identify the general location of uses, residential densities, and building intensities within the region; (2) identify areas within the region sufficient to house all the population of the region, including all economic segments of the population, over the course of the planning period of the regional transportation plan taking into account net migration into the region, population growth, household formation and employment growth; (3) identify areas within the region sufficient to house an eight-year projection of the regional housing need for the region pursuant to Government Code Section 65584; (4) identify a transportation network to service the transportation needs of the region; (5) gather and consider the best practically available scientific information regarding resource areas and farmland in the region as defined in subdivisions (1) and (b) of the Government Code Sections 65080 and 65581; and (6) consider the statutory housing goals specified in Sections 65580 and 65581, (7) set forth a forecasted development pattern for the region which when integrated with the transportation network, and other transportation measures and policies, will reduce the GHG emissions from automobiles and light trucks to achieve the GHG reduction targets, and (8) allow the RTP to comply with air quality conformity requirements under the federal Clean Air Act; and

WHEREAS, the 2022 RTP/SCS has been prepared in accordance with state guidelines adopted by the California Transportation Commission and;

WHEREAS, a 2022 RTP/SCS has been prepared in full compliance with federal guidance; and

WHEREAS, federal planning regulations require that Metropolitan Planning Organizations prepare and adopt a short range Federal Transportation Improvement Program (FTIP) for their region; and

WHEREAS, projects submitted in the 2023 FTIP must be financially constrained and the financial plan affirms that funding is available; and

WHEREAS, the 2023 FTIP has been prepared to comply with Federal and State requirements for local projects and through a cooperative process between the Federal Highway Administration (FHWA), the Federal Transit Administration (FTA), the State Department of Transportation (Caltrans), principal elected officials of general purpose local governments and their staffs, and public owner operators of mass transportation services acting through the Tulare County Association of Governments forum and general public involvement; and

WHEREAS, the 2023 FTIP program listing is consistent with: 1) the 2022 RTP/SCS; 2) the 2022 State Transportation Improvement Program; and 3) the Corresponding Conformity Analysis; and

WHEREAS, the 2023 FTIP contains the MPO's certification of the transportation planning process assuring that all federal requirements have been fulfilled; and

WHEREAS, the 2023 FTIP meets all applicable transportation planning requirements per 23 Code of Federal Regulations (CFR) Part 450; and

WHEREAS, the Tulare County Association of Governments has established performance targets that address the performance standards per 23 CFR Part 490 , 49 United States Code (U.S.C.) 5326(c), and 49 U.S.C. 5329(d) to use in tracking progress toward attainment of critical outcomes for the region of the MPO; and

WHEREAS, the Tulare County Association of Governments has integrated into its metropolitan transportation planning process, directly or by reference, the goals, objectives, performance measures, and targets described in other State transportation plans and transportation processes, as well as any plans developed under 49 U.S.C. Chapter 53 by providers of public transportation, required as part of a performance-based program; and

WHEREAS, the MPO must demonstrate conformity per 40 CFR Part 93 for the 2022 RTP/SCS and 2023 FTIP; and

WHEREAS, the 2022 RTP/SCS and 2023 FTIP includes a new Conformity Analysis; and

WHEREAS, the 2022 RTP/SCS and 2023 FTIP conforms to the applicable SIPs; and

WHEREAS, the 2022 RTP/SCS and 2023 FTIP do not interfere with the timely implementation of the Transportation Control Measures; and

WHEREAS, the documents have been widely circulated and reviewed by the Tulare County Association of Governments advisory committees representing the technical and management

staffs of the member agencies; representatives of other governmental agencies, including State and Federal; representatives of special interest groups; representatives of the private business sector; and residents of Tulare County consistent with the public participation process adopted by the Tulare County Association of Governments; and

WHEREAS, a public hearing was conducted on June 27, 2022 to hear and consider comments on the 2022 RTP/SCS, 2023 FTIP, and Corresponding Conformity Analysis;

NOW, THEREFORE, BE IT RESOLVED, that the Tulare County Association of Governments adopts the 2022 RTP/SCS, 2023 FTIP, and Corresponding Conformity Analysis.

BE IT FURTHER RESOLVED, that the Tulare County Association of Governments finds that the 2022 RTP/SCS and 2023 FTIP are in conformity with the requirements of the Federal Clean Air Act Amendments and applicable State Implementation Plans for air quality.

BE IT FURTHER RESOLVED, that the Tulare County Association of Governments also finds that the 2022 RTP/SCS meets the SB 375 GHG reduction targets of 13% below 2005 per capita emissions levels by 2020 and 16% below 2005 per capita emissions levels by 2035.

THE FOREGOING RESOLUTION was passed and adopted by the Tulare County Association of Governments this 15th day of August, 2022.

AYES:

NOES:

ABSENT:

TULARE COUNTY ASSOCIATION OF GOVERNMENTS

Amy Shuklian
Chair, TCAG

Ted Smalley
Executive Director, TCAG

APPENDIX F

RESPONSE TO PUBLIC COMMENTS

This appendix will be finalized after the close of public comment period.

Appendix I – Expedited Project Selection Procedures

Tulare County Association of Governments Expedited Project Selection Procedures

The original Expedited Project Selection Procedures (EPSP) was adopted by TCAG on March 21, 2005, and subsequently amended on August 20, 2007, May 17, 2010, and June 18, 2012, and July 21, 2015.

Federal Regulations 23 Code of Federal Regulations (CFR) Part 450 and Title 23 of the United States Code (USC) allows for the advancement or delay of projects within the active four-year program schedule planning element of the Federal Transportation Improvement Program (FTIP) subject to procedures agreed upon by cooperating parties. This document certifies that the Tulare County Association of Governments (TCAG) as the Metropolitan Planning Organization (MPO) and the Regional Transportation Planning Agency (RTPA), has in place a formal Expedited Project Selection Process (EPSP) agreed upon by all of the Region's partners.

TCAG and the California Department of Transportation (Caltrans) have implemented an EPSP for its Federal Transportation Improvement Program (FTIP), as required by Federal Regulations 23 Code of Federal Regulations (CFR) Part 450 and Title 23 United States Code (USC). Projects from the first four years of 2021 FTIP have been selected using the approved project selection procedures. An outline of these procedures is identified in the "EPSP Selection Process" table contained within this document.

All partner agencies agree that any project identified within the 4-year program schedule planning element may be advanced or delayed in the existing Federal Statewide Transportation Improvement Program (FSTIP) subject to conditions detailed in the EPSP.

EPSP Eligibility Criteria

1. Projects identified within the State Transportation Improvement Program (STIP) may be advanced or delayed, however the use of the EPSP process is subject to the approval by the California Transportation Commission (CTC).
2. TCAG and Caltrans agree that the Caltrans' State Highway Operation Protection Program (SHOPP) Program Manager may advance or delay projects programmed in the adopted SHOPP project schedule upon notifying TCAG.
3. Projects funded by the Congestion Mitigation and Air Quality Program (CMAQ) and Surface Transportation Block Grant Program (STBGP) may be advanced or delayed within the 4-year program schedule planning element of the FTIP at the request of the sponsor agency and subject to the approval of TCAG.
4. Federal Transit Administration (FTA) administered funds and/or projects may be advanced or delayed within the four-year program schedule planning element of the FTIP at the request of the agency, as long as funding is available and the


change does not negatively impact the delivery or availability of funds for other projects ready for obligation.

5. The Caltrans Division of Local Assistance has implemented a project selection process in cooperation with the FHWA, TCAG, and the implementing Agency for the Active Transportation Program (ATP), Safe Routes to School Program (SRTS), Highway Safety Improvement Program (HSIP), Highway-Railroad Grade Separation Program, Highway Bridge Program (HBP), Minor Program, Local Section 130 Grade Crossings Program, and Recreational Trails Program to produce the four-year FTIP, Program Schedule planning list. Projects funded through the programs listed may be advanced or delayed within the four-year element of the FTIP by the authorized Program Managers without amending the FTIP, upon notification to TCAG.

This process was developed in cooperation and consultation with the implementing agencies, the FHWA, FTA, the MPO, and the HBP Advisory Committee. TCAG and Caltrans agree that the Caltrans Division of Local Assistance may move projects within those programs identified above within the 4-year FTIP Program Schedule Planning Element without formally amending the FTIP/FSTIP.

Caltrans acknowledges that advancing projects under the preceding procedures does not invalidate the financial constraint of the 2021 FSTIP and FTIP.

TCAG Chairman and Executive Director's signature below acknowledges that advancing of projects under such agreement does not invalidate the financial constraint of its FTIP

By  _____
Pete Vander Poel, TCAG Chairman

By  _____
Ted Smalley, TCAG Executive Director

Expedited Project Selection Procedures

Region	Project Type	Selecting Agency	Selection Procedure	Consulted/Cooperating Agency
MPO: TCAG	Projects funded with Title 23 and Federal Transit Act funds except: NHS, HBP, IM and FLHP funded projects	MPO	Consultation	State of California, TCAG, transit agencies, County of Tulare, City of Dinuba, City of Exeter, City of Farmersville, City of Lindsay, City of Porterville, City of Visalia, City of Tulare, City of Woodlake
	Projects on the Highway Railroad Grade Separation Program, NHS, and projects funded under the following programs: ATP, SRTS, HSIP, Highway-Railroad Grade Separation, HBP, Minor, Local Section 130 Grade Crossings, Recreational Trails, and STIP (subject to amendment approval by CTC)	State of California	Cooperation	MPO
	Projects funded with Federal Lands Highway Program (FLHP) funds	Selected in accordance with 23 U.S.C. 204		

Appendix J – 2023 FTIP Checklist and Development Guidance

2023 Federal Transportation Improvement Program (FTIP) Checklist for Caltrans FTIP Coordinator

I. Timeline:

Ensure each Metropolitan Planning Organization (MPO) submits the following items to Caltrans:

- ✓ The *Draft* 2023 FTIP at the start of the FTIP public review period but not later than **August 30, 2022**.
- ✓ Upload the final 2023 FTIP, along with any amendments and to the 2023 FTIP in the California Transportation Improvement Program System (CTIPS) by **September 30, 2022**.
- ✓ Email web-link to the Final 2023 FTIP and amendments to Caltrans by **September 30, 2022**.

II. FTIP Package Submittal:

Paper copies of the draft or final 2023 FTIPs are not required.

Verify that your draft and final FTIP package includes the following:

- Project Listings
 - Projects that are Transportation Control Measures (TCMs) are identified
- Detailed listings for highway and transit grouped projects (back-up listings)
- Board resolution that addresses the following. Include signed board resolution with your final 2023 FTIP.
 - Consistency with the metropolitan transportation planning regulations per Title 23 Code of Federal Regulations (CFR) Part 450
 - Consistency with the Regional Transportation Plan (RTP)____(e.g. RTP 2030)
 - Financial constraint – the enclosed financial summary affirms availability of funding
 - Meets air quality conformity
 - Does not interfere with the timely implementation of the TCMs contained in the State Implementation Plan
 - Compliance with the performance-based planning requirements
 - Completion of the public participation process in accordance with the MPO’s Public Participation Plan (PPP)
- Federal Performance Measures:
 - The FTIP must be designed such that once implemented, it makes progress toward achieving the performance targets established under 23 CFR 450.306(d).
 - Include description of the anticipated effect of the FTIP toward achieving the performance targets identified in the metropolitan transportation plan/RTP, linking investment priorities to the performance targets.
 - Submit FTIP Performance Measures Reporting Workbook in Excel via email.
- Financial Summary
 - Includes financial information covering the first four years of the FTIP
 - Excel file submitted electronically using template dated _____
- Include analysis of revenues dedicated for maintaining and operating the federal-aid system
- Air quality conformity analysis and determination
- PPP/Interagency Consultation
- Expedited Project Selection Procedures (EPSP) documentation
- Web link to the CMAQ and STBGP project selection process

2023 Federal Transportation Improvement Program (FTIP) Development Guidance

This guidance is not intended to supersede federal regulations. FTIPs must comply with all applicable metropolitan transportation planning regulations per Title 23 Code of Federal Regulations Part 450.

I. Timeline

Email Caltrans FTIP Coordinator the link to your draft 2023 FTIP at the start of the public review period, but not later than August 30, 2022. Except for the signed board resolution, all items listed in the 2023 FTIP Checklist must be included.

Submit the final 2023 FTIP and any amendments to Caltrans by September 30, 2022. Only FTIPs received by the deadline will be included in the final 2023 FSTIP submittal to FHWA and FTA. Once it is approved by the FHWA and FTA, the 2023 FSTIP will supersede the 2021 FSTIP and only projects included in the 2023 FSTIP can be obligated.

II. Amendments

Any amendment to the board-adopted 2023 FTIP received by September 30, 2022, will be included as part of the final 2023 FSTIP submittal to the FHWA and FTA. During this time, MPOs with delegated authority from Caltrans cannot approve administrative modifications to their board approved 2023 FTIPs until the 2023 FSTIP is approved by the FHWA and FTA.

Amendments not received by September 30, 2022, will be processed by Caltrans, FHWA and FTA after the 2023 FSTIP is approved.

III. Maintenance and Operations Costs

Include in the FTIP's financial plan an analysis of revenues dedicated for maintaining and operating the federal-aid system. Include the basis for calculation, address any anticipated shortfall in available revenues, and describe plans to address the gap.

iv. Performance-Based Planning and Programming Requirements for RTP and FTIP

Federal regulations require States and MPOs to take a performance-based approach to planning and programming. States, MPOs, and transit operators must establish targets in key national performance areas. Title 23 CFR 450.306 requires MPOs to establish performance targets in their metropolitan transportation planning process. The FTIP shall include the MPO's adopted performance targets and describe efforts toward achieving those targets.

This checklist should be used as a tool to ensure the requirements and best practices for addressing federal performance measures are adequately met in the FTIP.

Shall:

- 23 CFR 450.326
 - **(c)** The TIP shall be designed such that once implemented, it makes progress toward achieving the performance targets established under § 450.306(d).
 - **(d)** The TIP shall include, to the maximum extent practicable, a description of the anticipated effect of the TIP toward achieving the performance targets identified in the metropolitan transportation plan, linking investment priorities to those performance targets.

The FTIP Should:

- Include a dedicated discussion/section to address federal performance measures.
- Identify each federal performance measure and the most recent target set for each performance measure.
 - PM 1, 2, 3, TAM, PTASP
- Describe the MPO's targets for each performance measure (i.e. supporting the State's target or MPO is selecting its own targets).
 - For TAM and PTASP targets, MPOs collect targets from the transit agencies, but are required to set a regional target. Describe methodology for setting regional target.
 - Also describe the coordination efforts undertaken by the MPO to set each performance targets, such as coordination with the State, transit agencies, etc.
- The performance measures section of the FTIP should be consistent with the RTP, specifically, the System Performance Report, and should reference the RTP and/or refer the reader to more detailed information in the RTP System Performance Report.
- Explain how the projects programmed in the FTIP are consistent with the RTP goals, objectives, and/or strategies.
- Explain how the projects programmed in the FTIP align with the MPO's project selection criteria.
- Describe projects that are programmed in the FTIP that help to achieve or make progress towards achieving each of the performance targets (PM 1, 2, 3, TAM, PTASP).
 - Describe the funding program(s)/source(s) for the project(s).

- Identify whether the project is on the NHS (PM 2).
- Provide details about the existing conditions/performance and describe the anticipated conditions/performance once the project is implemented.

v. Satisfying Public Participation Requirement for the Development of the Program of Projects (POP) for FTA 5307 Program through FTIP Development

The FTIP's public involvement process can be used to satisfy the public participation requirement for the development of the Program of Projects (POP) for the FTA 5307 Program. To achieve this requirement, the transit recipient shall coordinate with the MPO to ensure the public is informed that its public participation plan associated with the FTIP is used to satisfy the public involvement requirements for the POP. The MPO must ensure that the FTIP explicitly states that public involvement activities and time established for public review and comment for the FTIP satisfy the POP requirements for the FTA 5307 Program.

vi. Financial Constraint/Financial Summaries

- a) Program CMAQ and STBGP funded projects up to the annual apportionment level for your region.
- b) Program projects from various Caltrans managed state consistent using the project listings from Caltrans.
- c) Include the FTIP Financial Summary Tables in the draft FTIP for public review. Notate any borrowing/loaning of apportionments in the financial summary table per agreements executed by Caltrans Local Assistance.
- d) Submit the financial summary tables dated June 2, 2020 in the final FTIP to Caltrans.

vii. Programming of Individually Listed Projects

- a) Verify planning studies (non-transportation capital) are included in the Overall Work Program. Planning studies do not need to be listed in the FTIP.
- b) Program funding for each phase of a project in the year of obligation (E-76).
- c) For projects with no funding programmed within the four-year FTIP cycle that are included in the FSTIP for environmental approval purpose, include the Regional Transportation Plan (RTP) Project Number, project completion date, the total project cost and add the following language to the project description:

"Project included in the FTIP for environmental approval."
- d) Provide the following information for each project:
 - 1) Sufficient description (i.e., type of work, termini, and length) to identify the project. (See the section below for more information.)

- 2) Total project cost based on the latest engineering estimates which may extend beyond the four years of the FTIP. Cost estimates must use an inflation rate to reflect the “year of expenditure dollars” based on reasonable financial principals and assumptions and be included in the financial plan. Projects in air quality nonattainment and maintenance areas can be included in the first two years of the FTIP and FSTIP only if funds are "available" or “committed."
- 3) The amount of federal funds proposed to be obligated during each program year for the project or phase.
- 4) Required non-federal matching funds.
- 5) Implementing agency
- 6) When programming an FTA-funded project from the prior FTIP into the 2023 FTIP, use the project description field (or "CTIPS MPO Comments" section) to list the fiscal year in which the funds were awarded, the amount, and the prior year fund type.
- 7) Corresponding RTP number or RTP page number. MPOs that use California Transportation Improvement Program System (CTIPS) to develop their FTIPs may use the “Project Title, Location & Description” field or the “MPO Comments” field to include the RTP information.

Highway Projects (State Highways/Local Roads) Description Format

Description Formula: [(Location) + (Limits) + (Improvement)]	
Location:	<p>The nearest city or significant town illustrated on state highway maps. If the project is located more than five miles away from the city or town, then prefix the city name with “East, West, North, or South of.”</p> <ul style="list-style-type: none"> • <i>In Bakersfield:</i> • <i>South of Bakersfield</i>
Limits:	<p>Project limits can be stated as from one road to another. Other boundary landmarks, such as rivers, creeks, state parks, freeway overcrossings, can be used in-lieu of streets or roads.</p> <ul style="list-style-type: none"> • <i>Between 1st Street and Pine Boulevard;</i> • <i>North of Avenal Creed to South of Route 33;</i> • <i>At Rock Creek Bridge;</i>
Improvement:	<p>Describes the work to be done. Include significant components of the improvement (in particular those that relate to air quality conformity).</p> <ul style="list-style-type: none"> • <i>Widen roadway from existing 2 lanes to 4 lanes.</i> • <i>Convert 4-lane expressway to 6-lane freeway with 2 HOV lanes.</i> • <i>Construct left turn lane.</i>
<p>Example: In Bakersfield: Between 1st Street and Pine Boulevard; widen roadway from existing 2 lanes to 4 lanes.</p>	

Transit Project Description Format

Description Formula: [(Location :) + (Limits) + (;) + (Improvement)]	
Location:	<p>For work at spot locations for large (statewide) transit agencies:</p> <p>The nearest city or significant town illustrated on state highway maps. If the project is located more than five miles away from the city or town, then prefix the city name with “East, West, North, or South of.”</p> <ul style="list-style-type: none">• <i>In Bakersfield:</i>• <i>North of Bakersfield:</i> <p>Otherwise: Skip this step.</p>

Limits:	<p>For work at spot locations (all agencies):</p> <p>Name of the station, description of facility, name the rail corridor for the project etc.</p> <ul style="list-style-type: none"> • <i>Lafayette BART Station;</i> • <i>The Daly City Yard, adjacent to the Coloma Station;</i> • <i>San Joaquin Corridor;</i>
Improvement:	<p>Describes the work to be done. Include significant components of the improvement (in particular those that relate to air quality conformity.</p> <ul style="list-style-type: none"> • <i>Construct a station.</i> • <i>Track and signal improvements.</i> <p>Projects that apply to entire transit agency jurisdiction – describe activity</p> <ul style="list-style-type: none"> • <i>Purchase of 59 buses -- 12 MCI's and 47 Standard 40 ft buses (note if expansion or replacement).</i> • <i>Para-transit van leasing.</i> • <i>Operating assistance for Sacramento Regional Transit.</i>
Example:	<p>North of Bakersfield: San Joaquin Corridor – Track and signal improvements.</p> <p>Operating assistance for Sacramento Regional Transit.</p>

viii. Programming of Grouped Projects

- a) Use the attached guidelines titled “Programming of Grouped Project Listings in Air Quality Non-Attainment or Maintenance Areas” (Attachment A) for programming grouped projects in air quality non-attainment or maintenance areas.
- b) Refer to 23CFR771.117 (c) and (d) for MPO areas (SBCAG, AMBAG, and Shasta) and Rural non-MPO counties that are classified as air quality attainment for information on projects that can be classified as “Categorical Exclusion (CE).” For these areas, projects that are not considered regionally significant and qualify as CE may be grouped together.
- c) MPOs are responsible for determining if projects are eligible for inclusion in the grouped project listing.

- d) FTA-funded projects can be grouped, provided the detailed project list is made available to the FTA and the public. The detailed project list must be included in the FTIP and in the FTIP amendment when circulated for public review.

ix. Use of Toll Credits

Federal-aid highway projects typically require sponsors to provide non-federal funds as match to federal funds. However, at the MPO’s discretion, a project may be funded without the required non-federal match using Toll Credit (TC) provisions. The non-federal share match requirement can be satisfied by applying an equal amount of TCs, which allows a project to be funded with 100% federal funding for federally participating project costs. TCs do not generate additional federal funding and are limited to the non-federal match required for the federal apportionments available in any given year.

The current Caltrans federal funding policy excludes the STIP (IIP), SHOPP, and Highway Maintenance Program projects from the use of TCs. However, MPOs may use CMAQ and STBGP funds in lieu of the required federal match by using TCs for the programs listed below.

TCs may be used for the following programs:

PROGRAMS	CRITERIA	ELIGIBLE FUNDS FOR USING TCs
STIP	TCs can be used only for the RIP projects	Eligible federal funds (e.g. CMAQ, STBGP)
HBP – Off System Projects	TCs are to be used for the “Off federal-aid system” projects	HBP
HBP – On System projects	TCs can be used for the “On federal aid system” projects using other eligible federal funds.	Eligible federal funds (e.g. HIP, STBGP)
HSIP	TCs can be used for projects from the local HSIP using other eligible federal funds, except for certain countermeasures eligible to use HSIP funds.	Eligible federal funds (e.g. CMAQ, STBGP)
*CMAQ and RSTP	Projects may be programmed with TCs at MPO’s discretion	CMAQ, STBGP

FTA – Funded Projects	<p>Projects funded from the formula programs are eligible to receive TCs. Below are the eligible programs</p> <ul style="list-style-type: none"> ● 5307 including CMAQ and RSTP FTA transfer projects ● 5309 ● 5310 ● 5311 including CMAQ and RSTP FTA transfer projects ● 5337 ● 5339 	Various
-----------------------	--	---------

* Notate in the FTIP the “Use of TCs” in the project description for CMAQ and RSTP-funded projects.

TCs shall not be used if the non-federal matching requirement has already been met with other non-federal funds

x. 2022 State Transportation Improvement Program (STIP)

The total project cost and all funding, including non-STIP funding, must be shown in the FTIP. (If a phase is programmed outside of the 2023 FSTIP period, then the total project cost can be shown in the MPO comment section or in the project description field in CTIPS). When a STIP project is transferred from the STIP into the FTIP in CTIPS through the “CTIPS Transfer Mechanism,” right of way support and construction support costs are added to the corresponding capital costs.

MPOs may choose one of the following options for programming STIP projects:

- a) **Recommended Option:** Use the California Transportation Commission (CTC) adopted 2022 STIP.
- b) Use CTC staff recommendations.
- c) Use the county and interregional shares information from the 2022 STIP Fund Estimate (FE). <https://catc.ca.gov/-/media/ctc-media/documents/programs/stip/2022-stip/2022-stip-fund-estimate-shares-distribution-approved-aug-21-a11y.pdf>
- d) For the first three years of the 2023 FTIP, program only existing projects from the 2020 STIP that are re-programmed in the 2022 STIP. Program new STIP projects, if any, in the fourth year of the 2023 FTIP. The total programmed STIP funding in 2023 FTIP must be constrained to the available STIP targets for the region per FE.
- e) Program only existing projects from the 2020 STIP that are to be re-programmed in the 2022 STIP.

Options b, c, and d, require the MPO to process an amendment to align the FTIP with the 2022 STIP once the CTC adopts the 2022 STIP. The FTIP amendment must be submitted to Caltrans by **September 30, 2022**.

Timeline:

- ✓ **February 28, 2022** – CTC staff recommendations for the 2022 STIP projects are expected to be released.
- ✓ **March 16-17, 2022** – CTC adoption of the 2022 STIP.
- ✓ **May 1, 2022** – The 2022 STIP will be available in CTIPS for transfer into the FTIPs.

Ensure projects are programmed using the appropriate “STIP Advance Construction - RIP/IIP” fund type.

Any non-STIP project funding (e.g. Road Repair and Accountability Act Funding, Proposition 1B, local funds) must be programmed consistent with the STIP funding details in CTIPS.

Fund Table Manager - Google Chrome
 Secure | https://ctips-prod.dot.ca.gov/ctips/EditTypeFundForm.do

Edit Fund Type
Browse All Funds

Fund Type Details

Fund ID: Fund Name:

Detailed Fund Description ('Huh?' Button):

Blended Fund Type

Match %: Match Fund:

Archived Fund Type State Highway Account

Type

Federal
 State
 Local

Program Category(s) Containing this Fund Type

- IIP
- RIP
- IIP Prior
- RIP Prior
- GF IIP
- GF IIP Prior
- GF RIP
- GF RIP Prior

Select Category to Add:

MPO Filter - This Fund Type Applies to ...

<input checked="" type="checkbox"/> AMBAG	<input checked="" type="checkbox"/> BCAG	<input checked="" type="checkbox"/> COFCG	<input checked="" type="checkbox"/> KCOG	<input checked="" type="checkbox"/> MCAG
<input checked="" type="checkbox"/> MTC	<input checked="" type="checkbox"/> SACOG	<input checked="" type="checkbox"/> SBCAG	<input checked="" type="checkbox"/> SCAG	<input checked="" type="checkbox"/> SANDAG
<input checked="" type="checkbox"/> Shasta	<input checked="" type="checkbox"/> SJCOG	<input checked="" type="checkbox"/> SLOCOG	<input checked="" type="checkbox"/> STANCOG	<input checked="" type="checkbox"/> TCAG
<input checked="" type="checkbox"/> Kings	<input checked="" type="checkbox"/> TRPA	<input checked="" type="checkbox"/> Madera	<input checked="" type="checkbox"/> Rural Non-MPO	

xii. 2020 State Highway Operation and Protection Program (SHOPP)

For non-attainment areas, projects that are not exempt from air quality conformity determination must be listed individually in the FTIP. For attainment areas, projects that are not classified as Categorical Exclusion (CE) must be listed individually in the FTIP.

- Program all projects with “SHOPP Advance Construction (AC)” fund type.
- Verify in the financial summary that the total revenue is equal to the total programmed.
- Program Preliminary Engineering (PE) and Right of Way (RW) phases for the Contingency projects (G-13) and once Construction Capital and Construction Support phases are programmed in the 2022 SHOPP, District FTIP Coordinators will notify MPOs to program these phases in the 2023 FTIP.

MPOs are responsible for determining if a project can be classified as non-exempt or CE. Contact the District FTIP Coordinator if more information, such as a detailed project scope, is needed to make that determination.

Timeline:

- ✓ **January 31, 2022** – Caltrans to submit proposed 2022 SHOPP to the CTC.
- ✓ **March 16-17, 2022** – Anticipated CTC adoption of the 2022 SHOPP.
- ✓ **May 2, 2022** – The 2022 SHOPP will be available in CTIPS
- ✓ **By May 15, 2022** – Caltrans Programming will provide the SHOPP Grouped Project Reports.

Fund Table Manager - Google Chrome
 Secure | https://ctips-prod.dot.ca.gov/ctips/EditTypeFundForm.do

Edit Fund Type
Browse All Funds

Fund Type Details

Fund ID SHOPPAC	Fund Name SHOPP Advance Construction (AC)	Detailed Fund Description ('Huh?' Button) SHOPP funding shall be programmed with 100% "SHOPP Advance Construction (AC)" fund type.
--------------------	--	---

Blended Fund Type

?	Match % 0.00	Match Fund
---	-----------------	------------

Type

Federal
 State
 Local

Archived Fund Type State Highway Account

Program Category(s) Containing this Fund Type

SHOPP - Bridge Preservation
 SHOPP - Collision Reduction
 SHOPP - Emergency Response
 SHOPP - Mandates
 SHOPP - Mobility
 SHOPP - Roadside Preservation
 SHOPP - Roadway Preservation
 CT Minor Pgm.
 SHOPP - Base

Select Category to Add

MPO Filter - This Fund Type Applies to ...

<input checked="" type="checkbox"/> AMBAG	<input checked="" type="checkbox"/> BCAG	<input checked="" type="checkbox"/> COFCG	<input checked="" type="checkbox"/> KCOG	<input checked="" type="checkbox"/> MCAG
<input checked="" type="checkbox"/> MTC	<input checked="" type="checkbox"/> SACOG	<input checked="" type="checkbox"/> SBCAG	<input checked="" type="checkbox"/> SCAG	<input checked="" type="checkbox"/> SANDAG
<input checked="" type="checkbox"/> Shasta	<input checked="" type="checkbox"/> SJCOG	<input checked="" type="checkbox"/> SLOCOG	<input checked="" type="checkbox"/> STANCOG	<input checked="" type="checkbox"/> TCAG
<input checked="" type="checkbox"/> Kings	<input checked="" type="checkbox"/> TRPA	<input checked="" type="checkbox"/> Madera	<input checked="" type="checkbox"/> Rural Non-MPO	

xii. Various Caltrans Managed State and Federal Programs

Caltrans Federal Programming Office provides MPOs information on various Caltrans managed state and federal programs (Highway Bridge Program, Highway Safety Improvement Program, Highway Maintenance Program etc.) as the listings become available. Ensure projects are programmed using the latest state managed program listings. Contact Caltrans Federal Programming Office for further assistance.

xiii. Electronic FSTIP (E-FSTIP)

To streamline and expedite the submittal and approval of the FSTIP, Caltrans implemented the Electronic Submittal and approval of the FSTIP (E-FSTIP). The E-FSTIP enables MPOs, Caltrans, the FHWA and the FTA to electronically submit and approve the FSTIP, FTIPs, and FTIP amendments. The new E-FSTIP process eliminated the need for the MPOs and Caltrans to submit hard copies of these federal programming documents for review and approval. The FHWA and FTA will also approve all federal programming documents for the 2023 FSTIP through the E-FSTIP.

MPOs must submit their 2023 FTIPs, FTIP amendments, administrative modifications, and air quality conformity determinations to Caltrans, by uploading these documents into the California Transportation Improvement Program System (CTIPS) database to obtain state and federal approvals.

Caltrans' approval of the federal programming documents in CTIPS will constitute the State's approval of the FTIPs and its amendments for inclusion into the FSTIP. FHWA's and FTA's entry of an approval date in CTIPS will constitute federal approval of the FSTIP, FTIP amendments, and associated air quality conformity determinations.

Use the "E-FSTIP Amendment Approval Procedures for MPOs" (Attachment B) for the instructions on how to upload your FTIP and FTIP amendments into CTIPS.

Attachments:

Attachment A: Programming Grouped project listings in air quality nonattainment or maintenance areas

Attachment B: E-FSTIP Amendment Approval Procedures for MPOs

Appendix K – Public Participation Plan

Public Participation Plan

The TCAG 2022 Public Participation Plan is available on the TCAG website at:

<https://tularecog.org/tcag/planning/public-participation-plan/2022-public-participation-plan-final/>

Appendix L – Project Selection Guidelines

Project Selection Guidelines

Program	Link to document
CMAQ Program Policies	https://tularecog.org/tcag/programs-funding/congestion-mitigation-and-air-quality-cmaq/cmaq-program-policies-12-2018/
2023 ATP Statewide and Small Urban and Rural Project Component Selection Guidelines	https://catc.ca.gov/-/media/ctc-media/documents/programs/atp/2022/adopted-2023-active-transportation-program-guidelines-a11y.pdf
2023 ATP MPO Component Project Selection Guidelines (Draft)	https://tularecog.org/tcag/programs-funding/active-transportation-program-atp/2023-atp-mpo-project-selection-guidelines/
Highway Safety Improvement Program Guidelines (HSIP)	https://dot.ca.gov/-/media/dot-media/programs/local-assistance/documents/lapg/q09.pdf
2022 State Transportation Improvement Program Guidelines (STIP)	https://catc.ca.gov/-/media/ctc-media/documents/programs/stip/2022-stip/2022-stip-guidelines-adopted-aug-2021-a11y.pdf
State Highway Operations Preservation Program Guidelines (SHOPP)	https://catc.ca.gov/-/media/ctc-media/documents/ctc-meetings/2022/2022-03/67-4-24-a11y.pdf
Tulare County Measure R Expenditure Plan (Measure R)	https://tularecog.org/tcag/programs-funding/measure-r/plans-and-publications/measure-r-expenditure-plan/
Surface Transportation Block Grant Program Competitive Project Selection Guidelines (STBGP)	https://tularecog.org/sites/tcag/assets/File/2021%20STBGP%20Call%20for%20Projects.pdf