

RMS 2023-2026

# TRANSPORTATION IMPROVEMENT PROGRAM

**MARCH 25, 2022** 

El Paso Metropolitan Planning Organization



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# RMS 2023-2026 TRANSPORTATION IMPROVEMENT PROGRAM (TIP)



### El Paso Metropolitan Planning Organization

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#### PUBLIC COMMENT/INVOLVEMENT PERIOD

January 24th - March 9th, 2022

#### **PUBLIC MEETING DATES**

February 3<sup>rd</sup> - February 21<sup>st</sup>, 2022



#### PARTICIPATING AGENCIES

City of Anthony, NM
City of El Paso, TX
City of San Elizario, TX
City of Socorro, TX
City of Sunland Park, NM
County of El Paso, TX
Doña Ana County, NM
Otero County, NM
Town of Anthony, TX
Town of Clint, TX
Town of Horizon City, TX
Village of Vinton, TX

New Mexico Department of Transportation, District 1
New Mexico Department of Transportation, District 2
Texas Department of Transportation, El Paso District 24
Sun Metro, Mass Transit provider

Prepared by:

El Paso Metropolitan Planning Organization

Adopted by:

Transportation Policy Board (TPB), 03/25/2022

Submitted to:

FHWA and FTA

Prepared in cooperation with the Texas Department of Transportation, the New Mexico Department of Transportation, the U.S. Department of Transportation, the Federal Highway Administration and the Federal Transit Administration.

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# 1. METROPOLITAN PLANNING ORGANIZATION

Federal regulations require the creation and management of a Metropolitan Planning Organization (MPO) for every urban area having a population of more than 50,000. Since 1988, the El Paso Metropolitan Planning Organization (EPMPO) is the organization designated by the Governor of Texas as being responsible, together with the State, for carrying out the provisions of federal regulations regarding Metropolitan Transportation Planning and Programming.

The El Paso's Transportation Policy Board (TPB) is responsible for transportation planning and programming for the EPMPO. The TPB directs MPO staff through the Executive Director of the MPO. The MPO's planning area is El Paso County, Texas, southern Doña Ana County, New Mexico, and a small portion of Otero County, New Mexico. The MPO coordinates urban area-wide multi-modal transportation plans, which involve the study of present transportation regional patterns in relation to current and projected development.

The EPMPO is responsible for the preparation of the Metropolitan Transportation Plan (MTP), Transportation Improvement Program (TIP), Unified Planning Work Program (UPWP), and other documents as required by federal regulations.

# 2. ROLE OF THE TRANSPORTATION POLICY BOARD

The Transportation Policy Board (TPB) was established for the purpose of setting transportation policy to ensure that regional transportation projects and studies are developed in accordance with federal and state laws, rules and regulations.

The TPB is composed of elected public officials from local governments, membership from the Texas Department of Transportation (TxDOT), the New Mexico Department of Transportation (NMDOT), Texas and New Mexico State Senators and Representatives, Sun Metro as well as other members. The TPB receives recommendation for approval from the Transportation Project Advisory Committee (TPAC) for project selection, and technical issues for planning and programming transportation projects in the region.

#### 3. COMMITTEES OF THE MPO

The MPO has two standing committees; the Executive Committee (EC) and the Transportation Project Advisory Committee (TPAC). The EC's roles and responsibilities include review of the business aspect of the MPO, review of the Executive Director, review of contracts and other documents, and other assignments for recommendations to the TPB. The TPAC develops and makes recommendations to the TPB on projects with regards to the MTP and TIP, project selection process criteria, and special transportation planning studies.

# 4. PURPOSE OF THE TRANSPORTATION IMPROVEMENT PROGRAM

Federal regulations require that the TIP shall cover a period of not less than four years, and be updated at least every four years. The TIP is a short-range program of transportation improvements for the MPO's planning area, and is required by federal law. The TIP is prepared and coordinated by MPO staff with participating agencies that implement transportation projects and programs in accordance with regulations issued by the United States Department of Transportation. The EPMPO



produces a fiscally constrained TIP covering a period of four years.

Before adoption by the TPB, the draft TIP is reviewed by NMDOT and TxDOT, and is presented for public involvement for at least 30 days. Local officials, TxDOT, NMDOT, the Federal Highway Administration (FHWA) and the Federal Transit Administration (FTA) use the adopted TIP as a guide in budgeting funds for regional transportation improvements.

The Regional Mobility Strategy (RMS) 2023-2026 TIP is consistent with the EPMPO's RMS 2050 MTP. The EPMPO's RMS documents were produced through a Comprehensive, Cooperative, and Continuing transportation planning process carried out by the MPO in consultation with TxDOT, NMDOT, local governments and the public transit operator(s) in the region. The TIP contains all projects to be funded with federal transportation funds, as well as all regionally significant transportation projects funded with non-federal funds.

The inclusion of a project in the TIP reflects a consensus of priority needs among the citizens living in the MPO study area, locally-elected officials, local transportation agency representatives, transit providers, and representatives of TxDOT and NMDOT. The TIP is, in effect, a listing of transportation priorities, estimated costs and recommended implementation dates. The TIP may be amended as transportation needs and/or funding levels change. Process for amendments can be found in the EPMPO's Public Participation Plan (PPP) which is available in the EPMPO website at <a href="https://www.elpasompo.org/PublicParticipationPlan">www.elpasompo.org/PublicParticipationPlan</a>.

## 5. RELATIONSHIP BETWEEN TIP AND MTP

In metropolitan areas, the Metropolitan Transportation Plan (MTP) is the statement of the ways the region plans to invest in the transportation system. Per the federal regulations, the plan shall "include both long-range and short-range program strategies/actions that lead to the development of an integrated intermodal transportation system that facilitates the efficient movement of people and goods.

More specifically in the TIP, the EPMPO identifies the transportation projects and strategies from the MTP that it plans to undertake over the next four years. The TIP is the region's way of allocating its limited transportation resources among the various capital and operating needs of the area, based on a clear set of short-term transportation priorities.

#### 6. DEFINITION OF AREA

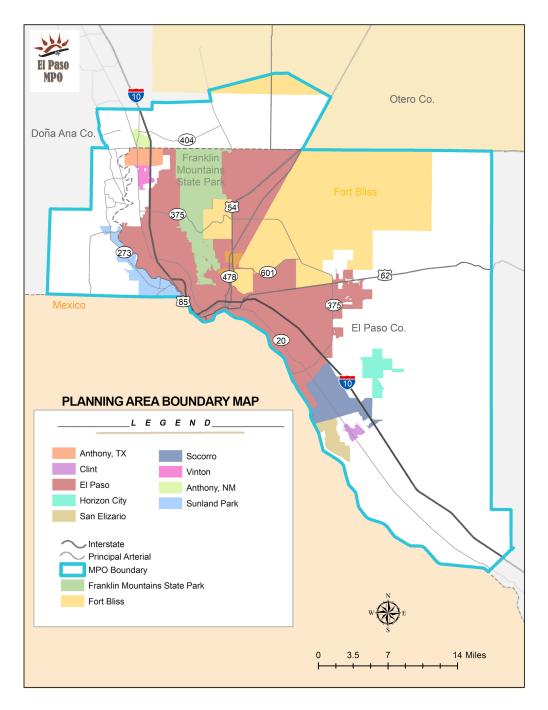
The EPMPO Planning Area includes the entirety of El Paso County, Texas, as well as portions of Doña Ana and Otero Counties in New Mexico. Within this boundary, the urbanized area has a population of over 200,000, and is therefore classified as a Transportation Management Area (TMA). The TMA designation applies to the overall metropolitan planning area, which includes the following governmental jurisdictions and agencies:

- City of El Paso, TX
- City of San Elizario, TX
- City of Socorro, TX
- El Paso County. TX
- Town of Anthony, TX
- Town of Clint, TX



- Town of Horizon City, TX
- Village of Vinton, TX
- TXDOT-El Paso District 24
- City of Anthony, NM
- City of Sunland Park, NM

- Doña Ana County, NM
- Otero County, NM
- NMDOT-District 1
- NMDOT-District 2





#### 7. PUBLIC PARTICIPATION PLAN

The intent of the Public Participation Plan (PPP) for the EPMPO is to include residents living in the MPO's Study Area, community groups, private and public agencies, and transportation providers in an effort that is proactive and that provides complete information, timely public notice, and full public access to key decisions made through the MPO. The PPP supports early and continuing involvement of the public in developing transportation plans and programs. Concerns of a wide variety of involved parties are integrated into the PPP and the plan encourages and provides for the greatest level of education on transportation issues. Opportunities for residents to contribute ideas and voice opinions early and often, both during and after the preparation of draft plans and programs is provided by the PPP.

Every effort is made to accommodate traditionally under-served audiences, including low-income and minority households, and persons with disabilities. A concerted effort is made to hold public meetings, public hearings, and open houses at locations that are accessible, as well as locations in the vicinity of transit lines or routes. Ideally the meetings will be held in person however, if under certain circumstances an in-person meeting may not be feasible, the MPO will hold virtual public meeting(s).

with Environmental In compliance Justice requirements, the MPO will respond to the needs of low-income and minority populations by choosing meeting locations, times and formats that are appropriate, accessible and reassuring to affected populations. All accommodations for the visual and/or hearing impaired and Spanish-speaking individuals are provided upon request prior to all public meetings. All public meeting announcements are announced on the MPO website and are published in various local periodicals and announced on the EPMPO's Social Media pages.

The PPP applies to the MTP, TIP and may be utilized—with appropriate modifications—for any other MPO documents requiring public involvement. All documents have, as a minimum, 30 days of continuing public review and comment periods, except the PPP itself, which requires 45 days of public review. Specific PPP measures are described as they relate to specific documents including, but not limited to the Metropolitan Transportation Plan (MTP), Transportation Improvement Program (TIP) and amendments to adopted EPMPO documents

For a complete copy of the EPMPO's Public Participation Plan, please contact the MPO at (915) 212-0258 or visit the EPMPO's web page at <a href="https://www.elpasompo.org/PublicParticipationPlan">www.elpasompo.org/PublicParticipationPlan</a>.

# 8. AMERICANS WITH DISABILITIES ACT (ADA)

The Americans with Disabilities Act of 1990 (ADA) stipulates involving the community, particularly those with disabilities, in the development and improvement of services. EPMPO fully complies with these requirements through its ADA plan and policies by making meeting room facilities accessible with wheelchair ramps, and restrooms and elevators that are wheelchair accessible. EPMPO facilitates public participation in transportation activities by people with disabilities using the guidelines found in the PPP. Additionally, TIP projects must comply with ADA requirements for accessibility.



#### 9. TITLE VI

The EPMPO is required by the FHWA to implement Title VI of the Civil Rights Act of 1964 (42 U.S.C 2000d-1). Title VI declares it to be the policy of the United States that discrimination on the ground of race, color, or national origin shall not occur in connection with programs and activities receiving Federal financial assistance, and authorizes and directs the involved Federal departments and agencies to take action to carry out this policy. Title VI prohibits discrimination: whether intentional or where the unintended effect is unduly burdensome.

The EPMPO, as a recipient of Federal financial assistance and under Title VI of the Civil Rights Act of 1964, ensures that no person shall on the grounds of race, color and national origin be excluded from participation in, be denied the benefits of, or otherwise be subjected to discrimination under any EPMPO programs or activities.

# 10.PROJECT SELECTION PROCESS

The selection of projects for the RMS 2050 MTP and RMS 2023-2026 TIP consisted of; evaluating the projects ability to achieve the FAST Act National Performance Goals, identifying project strategies included in the EPMPO's 2019 Congestion Management Process, and incorporating the Regional Mobility Strategy efforts. The purpose of the Regional Mobility Strategy was to understand future transportation needs and start a cooperative process to identify local and regional priorities. Priority projects and initiatives were selected through this cooperative process and adopted by the TPB as part of the RMS 2020. Projects identified in the RMS 2020 were prioritized for the available funding in the RMS 2023-2026 TIP.

#### 11. PERFORMANCE MEASURES

Performance measures are quantifiable indicators of progress towards achieving the goals and objectives set forth in the RMS 2050 MTP. The United States Department of Transportation (USDOT) has enumerated several performance measures that the EPMPO will report progress towards in order to demonstrate compliance with MAP-21 and the FAST Act. The measures set forth by the USDOT can be considered "tracking" measures, as they rely primarily on observed data to identify trends. EPMPO adopts targets established by the Texas and New Mexico DOTs for progress tracking purposes. The RMS 2050 MTP and the RMS 2023-2026 TIP proposes the use of several planning-level performance measures that the MPO can estimate or forecast using its existing modeling tools. These measures provide a proxy for the relative performance of different mixes of potential TIP projects - i.e. "alternatives" - and to help the MPO select the best program of projects to help it meet the goals set forth by the community through the visioning process as well as the targets it will set under federal law.

planning-level performance measures recommended for the RMS 2050 MTP (Table 1) can be roughly categorized within the goals of the plan, although several of these measures indicate progress towards multiple goals. Additionally, some indicators (such as crash rates) that are useful for identifying deficiencies on the existing system are not easily adaptable to forecasting tools. For these goals, the RMS 2050 MTP recommends performance measures that describe the overall program of projects' ability to introduce safety improvements at crash hotspots, replace deficient infrastructure, and address access and/or operational concerns at Ports of Entry (POEs).



**TABLE 1: GOALS AND PERFORMANCE MEASURES** 

GOALS	ALTERNATIVES EVALUATION PERFORMANCE MEASURES
Safety	Number of projects that include safety enhancements located near crash hotspots
Maintenance & Operations	Number of projects that repair or replace deficient bridges or pavements
Mobility	<ul> <li>Travel Time Index (Actual Travel Time Divided by Non-Congested Travel Time)</li> <li>Annual hours of delay (millions)</li> <li>Commute times from Environmental Justice Zones (min)</li> </ul>
Accessibility & Travel Choice	<ul> <li>Percentage of jobs, key destinations, and population within ½ mile of high-quality, rapid transit</li> <li>Average trip costs</li> </ul>
Sustainability	<ul><li> Total Vehicle Miles Traveled (VMT)</li><li> VMT per capita (regional)</li></ul>
Economic Vitality	<ul> <li>Annual hours of delay along major freight corridors</li> <li>Average wait times by mode at POEs</li> <li>Number of projects that improve operations or multimodal access at current or future POEs</li> </ul>
Quality of Life	The indicator for this goal is a summary of performance on each goal for each alternative relative to the other alternatives.
Implementation	Number of projects ready for implementation based on the Project Readiness Report



#### 12. TIP FUNDING SOURCES

TABLE 2: THE 12 TRADITIONAL FEDERAL FUNDING SOURCES USED IN TEXAS AND OTHER USED FUNDING CATEGORIES

CATEGORY	DESCRIPTION
1-Preventive Maintenance and Rehabilitation.	Category 1 addresses preventive maintenance and rehabilitation of the existing state highway system, including pavement, signs, traffic signals, and other infrastructure assets.
2 – Metropolitan and Urban Area Corridor Projects	Category 2 addresses mobility and added capacity projects on urban corridors to mitigate traffic congestion, as well as traffic safety and roadway maintenance or rehabilitation. Projects must be located on the state highway system.
3 -Non-Traditionally Funded Transportation Projects	Category 3 is for transportation projects that qualify for funding from sources not traditionally part of the State Highway Fund, including state bond financing (such as Proposition 12 and Proposition 14), the Texas Mobility Fund, passthrough financing, regional revenue and concession funds, and local funding. Category 3 also contains funding for the development costs of design-build projects. (Design-build construction costs are covered by other UTP categories)
4 – Statewide Connectivity Corridor Projects	Category 4 addresses mobility on major state highway system corridors, which provide connectivity between urban areas and other statewide corridors. Projects must be located on the designated highway connectivity network
5 – CMAQ	Category 5 addresses attainment of National Ambient Air Quality Standard in non-attainment areas (currently the Dallas-Fort Worth, Houston, San Antonio, and El Paso metro areas). Each project is evaluated to quantify its air quality improvement benefits. Funds cannot be used to add capacity for single-occupancy vehicles
6 – Structures Replacement and Rehabilitation (Bridge)	Category 6 addresses bridge improvements through the following sub-programs:  Highway Bridge Program, Bridge Maintenance and Improvement Program, Bridge System Safety Program
7 – Metropolitan Mobility and Rehabilitation	Category 7 addresses transportation needs within the boundaries of MPOs with populations of 200,000 or greater — known as transportation management areas (TMAs). This funding can be used on any roadway with a functional classification greater than a local road or rural minor collector



CATEGORY	DESCRIPTION
8 – Safety	Category 8 addresses highway safety improvements through the sub-programs listed below. Common Category 8 project types include medians, turn lanes, intersections, traffic signals, and rumble strips.  Highway Safety Improvement Program (HSIP) Systemic Widening Program (SSW) Road to Zero (RTZ)
9– Transportation Alternatives Set-Aside Program (TASA)	Category 9 handles the federal Transportation Alternatives (TA) Set-Aside Program. These funds may be awarded for the following activities:  Construction of sidewalks, bicycle infrastructure, pedestrian and bicycle signals, traffic-calming techniques, lighting and other safety-related infrastructure, and transportation projects to achieve compliance with the Americans with Disabilities Act
10 – Supplemental Transportation Programs	Category 10 addresses a variety of transportation improvements through the following sub-programs:  Coordinated Border Infrastructure (CBI) Supplemental Transportation Projects (Federal) Federal Lands Access Program (FLAP) Texas Parks and Wildlife Department (TPWD) Green Ribbon Program Americans with Disabilities Act (ADA) Landscape Incentive Awards Railroad Grade Crossing and Replanking Program Railroad Signal Maintenance Program
11 – District Discretionary	Category 11 addresses TxDOT district transportation needs through the sub-programs listed below. Common Category 11 project types include roadway maintenance or rehabilitation, added passing lanes (Super 2), and roadway widening (non-freeway).  District Discretionary Energy Sector Border Infrastructure



CATEGORY	DESCRIPTION
12 – Strategic Priority	Category 12 addresses projects with specific importance to the state, including those that improve Congestion and connectivity, Economic opportunity, Energy sector access, Border and port connectivity, Efficiency of military deployment routes or retention of military assets in response to the Federal Military Base Realignment and Closure Report, the ability to respond to both man-made and natural emergencies  Common project types include roadway widening (both freeway and non-freeway), interchange improvements, and new-location roadways
Proposition 1 (TXDOT)	Allocates money from the rainy day fund to State Highway Fund for construction, maintenance and rehabilitation.
Proposition 7 (TXDOT)	Supplies funding to the State Highway Fund from sales and use tax and state motor vehicle tax to build, maintain and restore non-tolled public roads.
FTA Section 5307	Mass Transit apportionment to urbanized areas based on population and operating performance.
FTA Section 5309	Funding for major transit capital investments, including heavy rail, commuter rail, light rail, streetcars, and bus rapid transit.
FTA Section 5339	Mass Transit discretionary funds for capital projects only.
FTA Section 5310	Provides federal funds to private nonprofit entities for the transportation of elderly and/or disabled persons.
FTA Section 5311	Rural Transit Program
Federal Highway-CMAQ (NMDOT)	Congestion Mitigation and Air Quality
Federal Highway-HSIP (NMDOT)	Highway Safety Improvement Program
Federal Highway-NHPP (NMDOT)	National Highway Performance Program
Federal Highway-STP (NMDOT)	Surface Transportation Block Grant Program
Federal Highway-TAP (NMDOT)	Transportation Alternatives Program
NM State Funds (NMDOT)	New Mexico State funds



#### 13. AIR QUALITY

The EPMPO requested that the Texas Commission on Environmental Quality (TCEQ) petition the United States Environmental Protection Agency (EPA) for a re-designation of the Carbon Monoxide (CO) nonattainment area to attainment status, and EPA proposed approval of the re-designation request and a maintenance plan on August 4, 2008. The proposal was a direct final, effective on October 3, 2008. The maintenance State Implementation Plan (SIP) for CO for the EPMPO was operating under a motor vehicle emission budget of 29.66 tons/day. The CO limited maintenance plan was approved on September 8, 2017 (effective October 10, 2017).

For Particulate Matter 10 (PM-10) the SIP has a motor vehicle emissions budget of 12.05 tons/day. Texas Administrative Code 30 TAC §111.147(1) (E) was developed in an effort to help develop a maintenance status for PM-10. These efforts include the paving of new alleyways, unpaved alleyways not being used for residential garbage and recycling collection, and use of reclaimed asphalt pavement as an alternate means to pave the road. Texas Administrative Code 30 TAC §111.147(2) was developed to require street sweeping at regular intervals to help the City of El Paso achieve goals on dust emissions. In New Mexico, Doña Ana County implemented erosion control regulations (Ordinance No 194-2000) to enhance the containment of PM-10 and reduction of negative health effects caused by the creation of fugitive dust. In addition, TCEQ developed a Natural Events Action Plan (NEAP) for El Paso County. The NEAP provides analysis and documentation of the exceedances as attributable to uncontrollable natural events due to unusually high winds. In addition, the NEAP is designed to protect public health, educate the public about high wind events. mitigate health impacts on the community during future events, and identify and implement Best Available Control Measures (BACM) for manmade sources of windblown dust. On November 30,2021 EPA published the final action revising the initial air quality designations for two counties associated with two nonattainment areas. In response to the D.C. Circuit Court of Appeals issued, the EPA re-evaluated the designations for the remanded counties by applying a uniform, nationwide analytical approach and interpretation of the designation provisions of the Clean Air Act (CAA) in considering the specific facts and circumstances of the areas using only data and information available at the time of the original designations. In the final action, the EPA revised the boundaries of two nonattainment areas. affecting the designation status of two counties in two separate states (Colorado and Texas). The EPA reconsidered its designation for El Paso County and changed the boundary for the previously designated New Mexico nonattainment area to include El Paso County, creating the El Paso-Las Cruces, Texas-New Mexico ozone nonattainment area (Effective on December 30, 2021).

As previously mentioned, the EPMPO boundary expands into a portion of Otero County and additional portions of Doña Ana County, New Mexico. A marginal PM-10 non-attainment area in Anthony, NM is within the area covered by the MTP and TIP. NMDOT and their consultants may prepare a qualitative analysis of roadway projects that fall within the non-attainment area. A small portion of Doña Ana County (Sunland Park) was designated non-attainment under 2015 Ozone (03) NAAQS on June 4, 2018 (Effective August 3, 2018) (83 FR 25776). The Sunland Park baseline emissions inventory and emissions statement SIP Revision and Certification was submitted to EPA by the New Mexico Environmental Department (NMED) on September 10, 2020 and approved October 15, 2021 (86 FR 57388). NMED's



nonattainment new source review (NNSR) permitting requirements (20.2.79 NMAC; Permit-Nonattainment Areas) SIP Revision was amended by the Environmental Improvement Board on June 25, 2021 and submitted to EPA July 30, 2021 for approval in meeting the 2015 O3 NAAQS. Please note that adoption of Reasonably Available Control Technologies (RACT) is not required for marginal ozone nonattainment areas and NMED has not included these in its SIP Revisions.

Before the TIP is given final approval by FHWA, it must be approved for air quality conformity. The MPO prepares an Air Quality Transportation Conformity Statement for the TIP, and comments are received through the public involvement process. The conformity statement is forwarded to TXDOT, NMDOT, TCEQ, and other state and federal agencies for review through the State Consultative Procedures.

The statement is sent to the Texas and New Mexico FHWA State Division office for review and final approval. The FHWA consults with the FTA, and the statement is forwarded to the EPA. The FHWA takes into account any comments received by the general public, TCEQ, FTA or the EPA concerning the advisability of constructing certain projects, and grants approval based on federal guidelines. A similar process is followed with New Mexico state agencies such as NMED, and the New Mexico FHWA State Division office.

The RMS 2023-2026 TIP is part of the RMS 2050 MTP. Transportation Conformity for the RMS 2023-2026 TIP will be determined as part of the conforming RMS 2050 MTP. The conformity statement is evaluated according to the amount of particulate matter (PM-10), volatile organic components (VOCs) and oxides of nitrogen (NOX) emissions that are projected from the existing transportation network, along with proposed projects. Changes in conformity rules contain

several important differences from previous conformity determinations. Budget tests are made for PM-10, VOC and NOx, and the no-greater-than-baseline year interim emission test for O3 (NOx and VOC) for the portion of Doña Ana County near Sunland Park, NM non-attainment area.

MOVES 2014b, an emissions modeling tool that can help determine the amount of emissions produced by vehicles, was to be used for the RMS 2050 MTP and RMS 2023-2026 TIP. The Texas Transportation Institute (TTI) is under a TXDOT contract to run the MOVES model for El Paso.

Projects marked "Exempt" may proceed towards implementation even in the absence of a conforming MTP and TIP. The EPA listed certain categories of projects as being exempt from conformity requirements in the Federal Register.

El Paso County, southern Doña Ana County, and a small portion of Otero County are included on the same traffic model for the purpose of conformity determination. Separate figures are calculated for each area for vehicle miles traveled (VMT) and emissions. The El Paso County conformity determination reports PM-10, VOC and NOx emissions where they must conform to the motor vehicle emissions budget tests. Southern Doña Ana County (including Sunland Park, Santa Teresa, La Union and the Gadsden High School area) does not currently have any emission budget tests. No tests are run for the Anthony, New Mexico PM-10 non-attainment area since only a qualitative analysis is required. A small portion of Doña Ana County near Sunland Park required an interim conformity test no-greater-than-baseline year as appropriate for marginal O3 nonattainment area.



Once the RMS 2023-2026 TIP receives final approval by the TPB, it will be included in New Mexico & Texas STIP's, and the document will be available for distribution upon request.

# 14. GROUPED DOCUMENTATION

Under 23 CFR 450.326(h) projects proposed for FHWA and/or FTA funding that are not considered by the State and MPO to be of appropriate scale for individual identification in a given program year may be grouped by function, geographic area, and work type by using applicable classifications under 23 CFR 771.117(c) and (d). In non-attainment and maintenance areas, these classifications must be consistent with the exempt project classifications contained in the EPA transportation conformity requirements (40 CFR Part 93, subpart A).

The EPMPO has adopted the grouped project categories found in Table 3 and currently maintains an informational list to track grouped Bicycle and Pedestrian and Recreational Trails Program projects funded with Category 9 Transportation Alternative Set-Aside funds. The EPMPO will continue to evaluate the possibility of utilizing other grouped categories in the future. The Texas STIP can be found at http:// www.txdot.gov/government/programs/stips.html and the New Mexico STIP at https://www.dot. state.nm.us/content/nmdot/en/POD Pubs.html. Financial accountability for these projects are the responsibility of the State(s), and therefore are not accounted for in the Financial Summary for the EPMPO totals. These projects are "exempt" from conformity requirements. These projects do not need policy approval by the TPB for the purpose of revisions.





TABLE 3: GROUPED PROJECTS CATEGORIES (TXDOT, FHWA, FTA)

PROPOSED CSJ (TXDOT)	GROUPED PROJECT CATEGORY	DEFINITION
5000-00-950	PE – Preliminary Engineering	Preliminary Engineering for any project except added capacity projects in a nonattainment area. Includes activities which do not involve or lead directly to construction, such as planning and research activities; grants for training; engineering to define the elements of a proposed action or alternatives so that social, economic, and environmental effects can be assessed.
5000-00-951	Right of Way Acquisition	Right of Way acquisition for any project except added capacity projects in a nonattainment area. Includes relocation assistance, hardship acquisition and protective buying.
5000-00-952 5000-00-957 5000-00-958	Preventive Maintenance and Rehabilitation	Projects to include pavement repair to preserve existing pavement so that it may achieve its designed loading. Includes seal coats, overlays, resurfacing, restoration and rehabilitation done with existing ROW. Also includes modernization of a highway by reconstruction, adding shoulders or adding auxiliary lanes (e.g., parking, weaving, turning, climbing, non-added capacity) or drainage improvements associated with rehabilitation (See Note 3).
5000-00-953	Bridge Replacement and Rehabilitation	Projects to replace and/or rehabilitate functionally obsolete or structurally deficient bridges.
5000-00-954	Railroad Grade Separations	Projects to construct or replace existing highway-railroad grade crossings and to rehabilitate and/or replace deficient railroad underpasses, resulting in no added capacity.
5800-00-950	Safety	Projects to include the construction or replacement/ rehabilitation of guard rails, median barriers, crash cushions, pavement markings, skid treatments, medians, lighting improvements, highway signs, curb ramps, railroad/highway crossing warning devices, fencing, intersection improvements (e.g., turn lanes), signalization projects and interchange modifications. Also includes projects funded via the Federal Hazard Elimination Program, Federal Railroad Signal Safety Program, or Access Managements projects, except those that result in added capacity.



PROPOSED CSJ (TXDOT)	GROUPED PROJECT CATEGORY	DEFINITION
5000-00-956	Landscaping	Project consisting of typical right-of-way landscape development, establishment and aesthetic improvements to include any associated erosion control and environmental mitigation activities.
5800-00-915	Intelligent Transportation Systems Deployment	Highway traffic operation improvement projects including the installation of ramp metering control devices, variable message signs, traffic monitoring equipment and projects in the Federal ITS/IVHS programs.
5000-00-916	Bicycle and Pedestrian	Projects including bicycle and pedestrian lanes, paths and facilities. (e.g., sidewalks, shared use paths, side paths, bicycle boulevards, curb extensions, bicycle parking facilities, bikeshare facilities, etc.) Safe Routes to School non-infrastructure related activities (e.g. enforcement, tools and education programs).
5000-00-917	Safety Rest Areas and Truck Weigh Stations	Construction and improvement of rest areas, and truck weigh stations.
5000-00-918	Transit Improvements and Programs	Projects include the construction and improvement of small passenger shelters and information kiosks. Also includes the construction and improvement of rail storage/maintenance facilities bus transfer facilities where minor amounts of additional land are required and there is not a substantial increase in the number of users. Also includes transit operating assistance, preventive maintenance of transit vehicles and facilities, acquisition of third-party transit services, and transit marketing, and mobility management/coordination. Additionally includes the purchase of new buses and rail cars to replace existing vehicles of for minor expansions of the fleet [See Note 4].
5000-00-919	Recreational Trails Program	Off-Highway Vehicle (OHV), Equestrian, Recreational Water/ Padding Trails and related facilities; Recreational Trails related education and safety programs.

Note 1: Projects eligible for grouping include associated project phases (Preliminary Engineering, Right-Of-Way and Construction)

Note 2: Projects funded with Congestion Mitigation Air Quality funding require a Federal eligibility determination, and are not approved to be grouped.

Note 3: Passing lanes include "SUPER 2" lanes consistent with TxDOT's Roadway Design Manual

Note 4: In PM10 and PM2.5 nonattainment or maintenance areas, such projects may be grouped only if they are in compliance with control measures in the applicable implementation plan.

Note 5: Projects funded as part of the Recreational Trails Program (RTP) and Transportation Alternatives (TA) Program consistent with the revised grouped project category definitions may be grouped. RTP or TA projects that are not consistent with the revised grouped project category definitions must be individually noted in the Transportation Improvement Program (TIP) and State Transportation Improvement Program (STIP). Road diet projects may not be grouped.



# 15. MPO GLOSSARY - PROJECT SECTION

#### **TABLE 4: GLOSSARY**

PROJECT CODE	DEFINITION	EXPLANATION
CSJ	Control Section Job Number	TXDOT-assigned number for projects entered into the Unified Transportation Plan (UTP)
CN	Control Number	NMDOT-number assigned for projects in New Mexico State Transportation Improvement Program (STIP)
PROJ ID	Project Identification	Code assigned by the MPO for local tracking/identification; used to relate projects to the Metropolitan Transportation Plan
F. CLASS	Federal Functional Classification	Federal classification of streets and highways into functional operating characteristics. Categories:  Interstate  Other Urban Freeways and Expressways  Other Principal Arterials
FED PROG	Federal Funding	PM&R: Preventive Maintenance and Rehabilitation Metro ACP: Metropolitan Area (TMA) Corridor Projects Urban ACP: Urban Area (Non-TMA) Corridor Projects State CCP: Statewide Connectivity Corridor Projects CMAQ: Congestion Mitigation and Air Quality Improvement CSREHAB: Consolidated Structure Rehabilitation STP-MM: Surface Transportation Program- Metro-Mobility SAFE: Safety Projects ENHAN: Enhancement Projects MISC: Miscellaneous Dist Discret: District Discretionary STRATEGIC: Strategic Priority FTA: Federal Transit Administration STP-L: New Mexico, Surface Transportation Program Large Urban STP-FLEX: New Mexico, Surface Transportation Program- Flexible STP-TPS: New Mexico, Surface Transportation Program- Safety BOR/COR: Borders and Corridors
PHASE	Project Phase for Federal Funding	T- Transfers C — Construction E- Preliminary Engineering R- Right of Way Acquisition



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#### TEXAS HIGHWAY PROJECTS FHWA & OTHER FUNDS<sup>1</sup>

<sup>&</sup>lt;sup>1</sup> Congestion Mitigation and Air Quality (CMAQ) Analyses can be found in Appendix A provided upon request and/or attached into the electronic version of this document.

THURSDAY, AUGUST 25, 2022 12:52:30 PM

#### EL PASO MPO 2023-2026 STATE TRANSPORTATION IMPROVEMENT PROGRAM

#### EL PASO DISTRICT PROJECTS



TIP PAGE: 1 olitan Planning Organization

				FY	2023 (SEPT - A	UG)			ti Paso Metropolitan Plat	
DISTRICT	COUNTY	CSJ		HWY	PHASE	CIT		JECT SPON		OE COST
TX DIST. 24	EP	3451-01-040		FM 1281	С	Hori	zon	TXDOT	\$	6,000,000
TIP PROJECT NAM	/IE: Horizon at	t Darrington Inters	section In	np.			REVISION DATE:	07/2022		
LIMITS FROM:	Horizon at	Darrington Interse	ction				MPO PROJECT ID:	A435X		
LIMITS TO:							MTP REFERENCE:	A435X		
TIP DESCRIPTION	: Horizon at	Darrington Interse	ction Imp.	: Intersection & Operat	tional Imprv		FUNDING CATEGORY	: CAT 2 TM	A	
REMARKS:	Program ir	to RMS 2050 MTI	P and RM	S 23-26 TIP in FY 2023	3					
*Project Sponsor pa	aying for PE an	d/or ROW Costs, i	f any.		ROJECT HISTO		2022 to FY 2023			
<b>Total Project Cost</b>	Information:			Ţ <u>-</u> -		Authorize	ed Funding by Categor	//Share		
Preliminary Engine	ering: \$2,471	,000		İ	Federal Share			ocal Share	Lcl Contribution	Total Share
Right Of Way:	\$0	Co	ost of	Cat 2M TMA	\$4,800,000	\$1,200,000	\$0	\$0	\$0	\$6,000,000
Construction:	\$6,000	,000	oroved	1	. , ,		· · · · · · · · · · · · · · · · · · ·			
Construction Engine	eering: \$505,9	86 Ph	ases:	Fund by Share	\$4,800,000	\$1,200,000	\$0	\$0	\$0	\$6,000,000
Contingencies:	\$125,7	<b>\$6,0</b>	000,000							
Indirects:	\$174,6	02	•							
Bond Financing:	\$0									
Potential Change C	rder: \$125,7	69								
Total Project Cost										
PROJECT AMEND										
STIP Rev Date(	s) FY(s) N	lote/Amend Date	Note/Am	endment						
05/2020	2022	04/2020	Program	into the D2045 MTP, D	019-23 TIP, and	19-22 STIP in l	FY 2022			
7/2020	2022	05/2020	Program	into the Amended D20	45 MTP, D21-24	TIP, and 21-2	4 STIP in FY 2022			
01/2022	2023	01/2022	Admin Ar	mend to move from FY	2022 to FY 2023	3				
07/2022	2023	03/2022		in to RMS 2050 MTP a						
07/2022	ZUZ3		Program			IP III F 1 2023				
IOTID D. D.			•							
	(s)' also refers	to TIP Administrati	•	dment (Local Revision)	Date					
TX DIST. 24	(s)' also refers	to TIP Administrati	ve Ameno	dment (Local Revision)		EIP		COEP	\$:	18,000,000
TX DIST. 24 TIP PROJECT NAM	(s)' also refers  EP  ME: ITS Infra.	to TIP Administrati 0924-06-619 @Zaragoza/BOTA	ve Amend	dment (Local Revision)	Date C,E	El Pa	REVISION DATE:	07/2022	\$	18,000,000
TX DIST. 24  TIP PROJECT NAM  LIMITS FROM:	EP  #E: ITS Infra.  At Bridge of	to TIP Administration 0924-06-619 @Zaragoza/BOTA of the Americas, 1 is	ve Amend	FF-SYS), south, east, and west	C,E of I-10 at US 54	EI Pa	REVISION DATE: MPO PROJECT ID:	07/2022 <b>S501X</b>	\$	18,000,000
TX DIST. 24  TIP PROJECT NAM  LIMITS FROM:  LIMITS TO:	(s)' also refers  EP  ME: ITS Infra.  At Bridge of At Zaragoz Loop375 fr	to TIP Administration 0924-06-619 @Zaragoza/BOTA of the Americas, 1 is a Port of Entry, alcome Padres Drive to	POE (OF mile north ong I-10, 1 o 1 mile n	FF-SYS), south, east, and west mile east and west or orth of I-10 interchange	C,E of I-10 at US 54 Loop 375 interche.	EI Po interchange nange, along	REVISION DATE:	07/2022 <b>S501X</b> S501X		18,000,000
TX DIST. 24  TIP PROJECT NAM  LIMITS FROM:	(s)' also refers  EP  ME: ITS Infra.  At Bridge of At Zaragoz Loop375 fr  ITS Infra. (of Intelliger	to TIP Administration 1924-06-619 @Zaragoza/BOTA of the Americas, 1 is a Port of Entry, alcomore Padres Drive to 22 aragoza/BOTA	POE (OF	FF-SYS), south, east, and west mile east and west of	C,E of I-10 at US 54 Loop 375 interche. construction, and	EI Parinterchange nange, along	REVISION DATE: MPO PROJECT ID: MTP REFERENCE:	07/2022 <b>S501X</b> S501X		18,000,000
TX DIST. 24  TIP PROJECT NAM  LIMITS FROM:  LIMITS TO:	(s)' also refers  EP  ME: ITS Infra.  At Bridge of At Zaragoz Loop375 fr  : ITS Infra. (of Intelliger Zaragoza I	to TIP Administration 1924-06-619  @Zaragoza/BOTA of the Americas, 1 is a Port of Entry, also meaders Drive to 2 Zaragoza/BOTA of Transportation Series of Entry	POE (OF mile north ong I-10, 1 o 1 mile n POE (OF) Systems (I	F-SYS), south, east, and west of orth of I-10 interchange	C,E  of I-10 at US 54 Loop 375 interche. construction, and a Americas (BOT	EI Parinterchange nange, along	REVISION DATE: MPO PROJECT ID: MTP REFERENCE:	07/2022 <b>S501X</b> S501X		18,000,000
TX DIST. 24  TIP PROJECT NAM LIMITS FROM: LIMITS TO:  TIP DESCRIPTION	(s)' also refers  EP  ME: ITS Infra.  At Bridge of At Zaragoz Loop375 fr  : ITS Infra. (of Intelliger Zaragoza I	to TIP Administration 1924-06-619  @Zaragoza/BOTA of the Americas, 1 is a Port of Entry, also meaders Drive to 2 Zaragoza/BOTA of Transportation Series of Entry	POE (OF mile north ong I-10, 1 o 1 mile n POE (OF) Systems (I	F-SYS) , south, east, and west mile east and west of orth of I-10 interchange F-SYS): The Design, CTS) at the Bridge of the S 23-26 TIP in FY 202:	C,E  of I-10 at US 54 Loop 375 interche. construction, and a Americas (BOT 3 - Exempt  ROJECT HISTO	EI Painterchange hange, along Installation A) and	REVISION DATE: MPO PROJECT ID: MTP REFERENCE:	07/2022 <b>\$501X</b> \$501X \$501X CAT 3 TM	F	
TX DIST. 24  TIP PROJECT NAN LIMITS FROM: LIMITS TO:  TIP DESCRIPTION  REMARKS:	(s)' also refers  EP  ME: ITS Infra.  At Bridge of At Zaragoz Loop375 fr  : ITS Infra. (of Intelliger Zaragoza I	to TIP Administration 1924-06-619  @Zaragoza/BOTA of the Americas, 1 is a Port of Entry, also om Padres Drive to 22aragoza/BOTA of Transportation Services of Entry of the RMS 2050 MTI	POE (OF mile north ong I-10, 1 o 1 mile n POE (OF) Systems (I	F-SYS) , south, east, and west mile east and west of orth of I-10 interchange F-SYS): The Design, CTS) at the Bridge of the S 23-26 TIP in FY 202:	C,E  of I-10 at US 54 Loop 375 interche. construction, and a Americas (BOT 3 - Exempt  ROJECT HISTO	EI Painterchange hange, along Installation A) and RY:	REVISION DATE: MPO PROJECT ID: MTP REFERENCE: FUNDING CATEGORY	07/2022 <b>\$501X</b> \$501X : CAT 3 TMI	F	
TX DIST. 24  TIP PROJECT NAN LIMITS FROM: LIMITS TO:  TIP DESCRIPTION  REMARKS:	(s)' also refers  EP  ME: ITS Infra.  At Bridge C  At Zaragoz  Loop375 fr  : ITS Infra. (of Intellige Zaragoza I  Program in	to TIP Administration 1924-06-619 @Zaragoza/BOTA of the Americas, 1 is a Port of Entry, alcom Padres Drive to 22aragoza/BOTA of Transportation Services of Entry of the RMS 2050 MTI of th	POE (OF mile north ong I-10, 1 o 1 mile n POE (OF) Systems (I	F-SYS) , south, east, and west mile east and west of orth of I-10 interchange F-SYS): The Design, CTS) at the Bridge of the S 23-26 TIP in FY 202:	Oate  C,E  of I-10 at US 54 Loop 375 interches. construction, and a Americas (BOT 3 - Exempt  ROJECT HISTO mend D2045 MT	EI Pointerchange nange, along Installation A) and RY: P, Amended E Authorize	REVISION DATE: MPO PROJECT ID: MTP REFERENCE: FUNDING CATEGORY  2045 MTP, D21-24 TIP def Funding by Category	07/2022 <b>\$501X</b> \$501X : CAT 3 TMI	F	
TX DIST. 24  TIP PROJECT NAM LIMITS FROM: LIMITS TO:  TIP DESCRIPTION  REMARKS:	(s)' also refers  EP  ME: ITS Infra.  At Bridge C  At Zaragoz  Loop375 fr  : ITS Infra. (of Intellige Zaragoza I  Program in	to TIP Administration 1924-06-619  @Zaragoza/BOTA of the Americas, 1 is a Port of Entry, alcom Padres Drive to 22aragoza/BOTA of Transportation Services of Entry of the RMS 2050 MTM tion:	POE (OF mile north ong I-10, 1 o 1 mile n POE (OF) Systems (I	F-SYS) , south, east, and west mile east and west of orth of I-10 interchange F-SYS): The Design, CTS) at the Bridge of the S 23-26 TIP in FY 202:	Oate  C,E  of I-10 at US 54 Loop 375 interches. construction, and a Americas (BOT 3 - Exempt  ROJECT HISTO mend D2045 MT	EI Pointerchange nange, along Installation A) and RY: P, Amended E Authorize	REVISION DATE: MPO PROJECT ID: MTP REFERENCE: FUNDING CATEGORY  2045 MTP, D21-24 TIP def Funding by Category	07/2022 \$501X \$501X : CAT 3 TM and 21-24 ST	F FIP to program in FY	′ 2023 - Exempi
TX DIST. 24  TIP PROJECT NAM LIMITS FROM: LIMITS TO:  TIP DESCRIPTION  REMARKS:  Total Project  Preliminary Enginee	(s)' also refers  EP  ME: ITS Infra.  At Bridge C  At Zaragoz  Loop375 fr  ITS Infra. (of Intellige Zaragoza I  Program ir  Cost Informa  ering: \$2,650	to TIP Administration 1924-06-619 @Zaragoza/BOTA of the Americas, 1 is a Port of Entry, alcom Padres Drive to 2 Zaragoza/BOTA of Transportation SPorts of Entry in to RMS 2050 MTI tion:	P and RM	F-SYS) , south, east, and west mile east and west of orth of I-10 interchange F-SYS): The Design, CTS) at the Bridge of the S 23-26 TIP in FY 202:  Cat 3TMF Texas Mobility	Onte  C,E  of I-10 at US 54 Loop 375 interche. Construction, and e Americas (BOT) 3 - Exempt ROJECT HISTO mend D2045 MT	EI Pointerchange hange, along Installation A) and RY: P, Amended E Authorize State Share	REVISION DATE: MPO PROJECT ID: MTP REFERENCE: FUNDING CATEGORY  202045 MTP, D21-24 TIP d Funding by Categor Regional Share L	07/2022 \$501X \$501X \$501X CAT 3 TM and 21-24 ST //Share	F  TIP to program in FY  Lcl Contribution	7 2023 - Exempl Total Share
TX DIST. 24  TIP PROJECT NAN LIMITS FROM: LIMITS TO:  TIP DESCRIPTION  REMARKS:  Total Project  Preliminary Enginee  Right Of Way:	(s)' also refers  EP  ME: ITS Infra.  At Bridge of At Zaragoz Loop375 fr  ITS Infra. (of Intelliger Zaragoza In Program in Sering: \$2,650 \$0 \$15,25.	to TIP Administration 1924-06-619 @Zaragoza/BOTA of the Americas, 1 is a Port of Entry, alcom Padres Drive to 2 Zaragoza/BOTA of Transportation SPorts of Entry in to RMS 2050 MTI tion:	POE (OF) POE (OF) POE (OF) POE (OF) Pand RM	F-SYS) , south, east, and west mile east and west of orth of I-10 interchanger-SYS): The Design, CTS) at the Bridge of the S 23-26 TIP in FY 202:	Onte  C,E  of I-10 at US 54 Loop 375 interche. Construction, and e Americas (BOT) 3 - Exempt ROJECT HISTO mend D2045 MT	EI Pointerchange hange, along Installation A) and RY: P, Amended E Authorize State Share	REVISION DATE: MPO PROJECT ID: MTP REFERENCE: FUNDING CATEGORY  202045 MTP, D21-24 TIP d Funding by Categor Regional Share L	07/2022 \$501X \$501X \$501X CAT 3 TM and 21-24 ST //Share	F  TIP to program in FY  Lcl Contribution	7 2023 - Exemp Total Share
TX DIST. 24  TIP PROJECT NAN LIMITS FROM: LIMITS TO:  TIP DESCRIPTION  REMARKS:  Total Project  Preliminary Enginee Right Of Way: Construction:	(s)' also refers  EP  ME: ITS Infra.  At Bridge of At Zaragoz Loop375 fr  ITS Infra. (of Intelliger Zaragoza In Program in Sering: \$2,650 \$0 \$15,25.	to TIP Administration  0924-06-619  @Zaragoza/BOTA of the Americas, 1 is a Port of Entry, alcome Padres Drive to a Ports of Entry of the RMS 2050 MTI  tion: 0000  Ca 4,000  App Ph	P and RM	F-SYS) , south, east, and west mile east and west of orth of I-10 interchange F-SYS): The Design, CTS) at the Bridge of the S 23-26 TIP in FY 202:  Cat 3TMF Texas Mobility	Onte  C,E  of I-10 at US 54 Loop 375 interches. construction, and a Americas (BOT 3 - Exempt  ROJECT HISTO mend D2045 MT  Federal Share \$0	EI Pointerchange hange, along Installation A) and RY: P, Amended E Authorize State Share	REVISION DATE: MPO PROJECT ID: MTP REFERENCE: FUNDING CATEGORY  202045 MTP, D21-24 TIP d Funding by Categor Regional Share L	07/2022 \$501X \$501X \$501X CAT 3 TM and 21-24 ST //Share	F  TIP to program in FY  Lcl Contribution	7 2023 - Exemp Total Share
TX DIST. 24 TIP PROJECT NAN LIMITS FROM: LIMITS TO: TIP DESCRIPTION REMARKS:  Total Project Preliminary Enginee Right Of Way: Construction: Construction Engine	(s)' also refers  EP  ME: ITS Infra.  At Bridge of At Zaragoz Loop375 fr  ITS Infra. (of Intelliger Zaragoza In Program in Sering: \$2,650 so \$15,25 deering: \$0	to TIP Administration  0924-06-619  @Zaragoza/BOTA of the Americas, 1 is a Port of Entry, also one Padres Drive to a Zaragoza/BOTA of Transportation Services of Entry in to RMS 2050 MTI  tion:000  Co. 4,000  App. Ph. \$18,1	P and RM post of proved asses:	F-SYS) , south, east, and west mile east and west of orth of I-10 interchanger-SYS): The Design, CTS) at the Bridge of the S 23-26 TIP in FY 202: PA	Onte  C,E  of I-10 at US 54 Loop 375 interches. construction, and a Americas (BOT 3 - Exempt  ROJECT HISTO mend D2045 MT  Federal Share \$0	EI Painterchange hange, along Installation (A) and (BY: P, Amended Installation (BY: Authorize State Share \$18,000,000	REVISION DATE: MPO PROJECT ID: MTP REFERENCE: FUNDING CATEGORY  22045 MTP, D21-24 TIP Ed Funding by Categor Regional Share L	07/2022 \$501X \$501X S 501X CAT 3 TM and 21-24 ST //Share cal Share	F  FIP to program in FY  Lcl Contribution  \$0	7 2023 - Exempt Total Share \$18,000,000
TX DIST. 24  TIP PROJECT NAN LIMITS FROM: LIMITS TO: TIP DESCRIPTION  REMARKS:  Total Project Preliminary Enginee Right Of Way: Construction: Construction Engine Contingencies:	(s)' also refers  EP  ME: ITS Infra.  At Bridge of At Zaragoz Loop375 fr  ITS Infra. (of Intelliger Zaragoza In Program in Sering: \$2,650 so \$15,25 dering: \$0 \$0 \$0	to TIP Administration  0924-06-619  @Zaragoza/BOTA of the Americas, 1 is a Port of Entry, also one Padres Drive to a Zaragoza/BOTA of Transportation Services of Entry in to RMS 2050 MTI  tion:000  Co. 4,000  App. Ph. \$18,1	P and RM post of proved asses:	F-SYS) , south, east, and west mile east and west of orth of I-10 interchanger-SYS): The Design, CTS) at the Bridge of the S 23-26 TIP in FY 202: PA	Onte  C,E  of I-10 at US 54 Loop 375 interches. construction, and a Americas (BOT 3 - Exempt  ROJECT HISTO mend D2045 MT  Federal Share \$0	EI Painterchange hange, along Installation (A) and (BY: P, Amended Installation (BY: Authorize State Share \$18,000,000	REVISION DATE: MPO PROJECT ID: MTP REFERENCE: FUNDING CATEGORY  22045 MTP, D21-24 TIP Ed Funding by Categor Regional Share L	07/2022 \$501X \$501X S 501X CAT 3 TM and 21-24 ST //Share cal Share	F  FIP to program in FY  Lcl Contribution  \$0	7 2023 - Exempt Total Share \$18,000,000
TX DIST. 24  TIP PROJECT NAN LIMITS FROM: LIMITS TO: TIP DESCRIPTION  REMARKS:  Total Project Preliminary Enginee Right Of Way: Construction: Construction Engine Contingencies: Indirects:	(s)' also refers  EP  ME: ITS Infra.  At Bridge (A Zaragoz Loop375 fr ITS Infra.)  of Intelliger Zaragoza I Program in Program in \$2,650 \$0 \$15,250 \$0 \$0 \$96,000 \$0	to TIP Administration  0924-06-619  @Zaragoza/BOTA of the Americas, 1 is a Port of Entry, also one Padres Drive to a Zaragoza/BOTA of Transportation Services of Entry in to RMS 2050 MTI  tion:000  Co. 4,000  App. Ph. \$18,1	P and RM post of proved asses:	F-SYS) , south, east, and west mile east and west of orth of I-10 interchanger-SYS): The Design, CTS) at the Bridge of the S 23-26 TIP in FY 202: PA	Onte  C,E  of I-10 at US 54 Loop 375 interches. construction, and a Americas (BOT 3 - Exempt  ROJECT HISTO mend D2045 MT  Federal Share \$0	EI Painterchange hange, along Installation (A) and (BY: P, Amended Installation (BY: Authorize State Share \$18,000,000	REVISION DATE: MPO PROJECT ID: MTP REFERENCE: FUNDING CATEGORY  22045 MTP, D21-24 TIP Ed Funding by Categor Regional Share L	07/2022 \$501X \$501X S 501X CAT 3 TM and 21-24 ST //Share cal Share	F  FIP to program in FY  Lcl Contribution  \$0	7 2023 - Exempt Total Share \$18,000,000

PROJECT AMENDMENT HISTORY
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STIP Rev Date(s)	FY(s)	Note/Amend Date	Note/Amendment
11/2021	2023	08/2021	Amend D2045 MTP, Amended D2045 MTP, D21-24 TIP and 21-24 STIP to program in FY 2022 - Exempt
07/2022	2023	03/2022	Program in to RMS 2050 MTP and RMS 23-26 TIP in FY 2023 - Exempt
'STIP Rev Date(s)'	also refe	rs to TIP Administrat	ive Amendment (Local Revision) Date

#### EL PASO MPO 2023-2026 STATE TRANSPORTATION IMPROVEMENT PROGRAM

#### EL PASO DISTRICT PROJECTS

#### FY 2023 (SEPT - AUG)

TIP PAGE: 2

DISTRICT COUNTY CSJ HWY **PHASE** CITY PROJECT SPONSOR YOE COST 0924-06-564 \$12,000,000 TX DIST. 24 ΕP CS С El Paso County EP TIP PROJECT NAME: John Hayes (Darrington/Berryville)(Construction Phase 1) **REVISION DATE:** 07/2022 LIMITS FROM: Pellicano Dr. MPO PROJECT ID: P004X-CAP-1

MTP REFERENCE: LIMITS TO: Montwood P004X-CAP-1 TIP DESCRIPTION: FUNDING CATEGORY: CAT 7 STP-MM, CAT 3 LC John Hayes (Darrington/Berryville)(Construction Phase 1): Build 2-lane roadway (1 lane in

each direction with raised median). Existing SB section from Montwood to 0.5 miles south will remain as 2-lanes

REMARKS: TPC include PE (CSJ 0924-06-564 programmed in 19-22 TIP), Phase 1 and 2 (CSJ 0924-06-565 programmed in 23-26 TIP FY 2025)

\*Project Sponsor paying for PE and/or ROW Costs, if any. PROJECT HISTORY: Program in to RMS 2050 MTP and RMS 23-26 TIP In EV 2023

					rogram in to raivi	5 2000 WITT at	Id I (IVIO 20-20 I II II	11 1 2020						
Total Project Cost	Information:		Authorized Funding by Category/Share											
Preliminary Engineering:	\$2,555,280		ļ		Federal Share	State Share	Regional Share	Local Share	Lcl Contribution	<b>Total Share</b>				
Right Of Way:	\$0	Cost of	Cat 7	STP-MM	\$7,053,535	\$0	\$0	\$1,763,384	\$0	\$8,816,919				
Construction:	\$30,000,000	Approved	Cat 7	CRRSA	\$3,183,081	\$0	\$0	\$0	\$0	\$3,183,081				
Construction Engineering	: \$1,500,000	Phases:		A	***,****,***	**	**							
Contingencies:	\$3,000,000	\$12,000,000	Fu	nd by Share	\$10.236.616	\$0	\$0	\$1,763,384	\$0	\$12,000,000				
Indirects:	\$0		ļ.	•	,,.	•		. , ,	•	, ,,				
Bond Financing:	\$0													
Potential Change Order:	\$0													
Total Project Cost:	\$37,055,280													

#### PROJECT AMENDMENT HISTORY

	STIP Rev Date(s)	FY(s)	Note/Amend Date	Note/Amendment				
	07/2020	2022	05/2020	Program into the Amended	D2045 MTP, D21-	24 TIP, 21-24 STIP, in FY 2022		
	01/2022	2023	12/2020	Amend to add CAT 7 CRR	SAA funds, reduce	CAT 7 STP MM funds, and move	e from FY 2022 to FY 2023	
	07/2022	2023	03/2022	Program in to RMS 2050 N	ITP and RMS 23-26	6 TIP In FY 2023		
	'STIP Rev Date(s)'	also refe	rs to TIP Administra	tive Amendment (Local Revi	sion) Date			
	TX DIST. 24	EP	0924-06-587	CS	C,E	Horizon	Horizon	\$14,971,000
_						DEL ((0) 0 L D L		

TIP PROJECT NAME: N. Darrington Reconstruction REVISION DATE: 07/2022 A432X LIMITS FROM: Eastlake Boulevard MPO PROJECT ID: A432X LIMITS TO: Oxbow Drive

MTP REFERENCE: TIP DESCRIPTION: N. Darrington Reconstruction: Reconstruction of an existing 4-lane roadway FUNDING CATEGORY: CAT 7 STP-MM, SWPE, CRRSAA

REMARKS: Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2023

PROJECT HISTORY:

Admin Amend to to add CAT 7 CRRSAA funds, reduce CAT 7 STP MM funds, and move from FY 2022 to

FY 2023

Total Project Cost	Information:		Ţ				Authorize	d Funding by Cate	gory/Share		
Preliminary Engineering:	\$3,260,000		į			Federal Share	State Share	Regional Share	Local Share	Lcl Contribution	<b>Total Share</b>
Right Of Way:	\$1,070,000	Cost of	Cat	7	STP-MM	\$7,453,535	\$0	\$0	\$1,863,384	\$0	\$9,316,919
Construction:	\$15,310,000	Approved	Cat	SBPE	SWPE	\$0	\$2,471,000	\$0	\$0	\$0	\$2,471,000
Construction Engineering:	\$3,050,000	Phases:	Cat	7	CRRSA	\$3.183.081	\$0	\$0	\$0	\$0	\$3,183,081
Contingencies:	\$2,090,000	\$14,971,000	Out	'	A	ψο, 100,001	ΨΟ	ΨΟ	ΨΟ	ΨΟ	ψο, 100,001
Indirects:	\$0		j.	Fund	l by Share	\$10.636.616	\$2,471,000	\$0	\$1,863,384	\$0	\$14,971,000
Bond Financing:	\$0		į	ı unu	by Charc	ψ10,000,010	ΨΣ, 47 1,000	Ψ	ψ1,000,004	Ψ	ψ14,571,000
Potential Change Order:	\$0										
Total Project Cost:	\$24 780 000										

#### PROJECT AMENDMENT HISTORY

STIP Rev Date(s)	FY(s)	Note/Amend Date	Note/Amendment
02/2020	2022	01/2020	Amend the D2045 MTP, D19-23 TIP, 19-22 STIP to move from FY 2030 to FY 2022.
07/2020	2022	05/2020	Program into amended D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2022.
01/2021	2022	09/2021	Administratively ame D2045 MTP, Amended D2045 MTP, D21-24 TIP and 21-24 STIP to replace \$2,471,000 of CAT 3 with SWPE funds in FY 2022
01/2022	2023	12/2021	Admin Amend to to add CAT 7 CRRSAA funds, reduce CAT 7 STP MM funds, and move from FY 2022 to FY 2023
07/2022	2023	03/2022	Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2023
'STIP Rev Date(s)' a	also refe	rs to TIP Administrat	tive Amendment (Local Revision) Date

#### EL PASO MPO 2023-2026 STATE TRANSPORTATION IMPROVEMENT PROGRAM

#### EL PASO DISTRICT PROJECTS

FY 2023 (SEPT - AUG)

TIP PAGE: 3

DISTRICT	COUNTY	CSJ	HWY	PHASE	CITY	PROJEC	T SPONSOR	YOE COST
TX DIST. 24	EP	0924-06-613	N/A	Т	El Paso	Co	unty EP	\$2,245,213
TIP PROJECT NAI	ME: Regional	l Transit Start-up ass	istance for FY23		REVISION I	DATE: 07	7/2022	
LIMITS FROM:	County W	/ide			MPO PROJ	ECT ID: TO	001-3	
LIMITS TO:	County W	/ide			MTP REFEI	RENCE: TO	001-3	
TIP DESCRIPTION	l: Regional	Transit Start-up assist	ance for FY23		FUNDING C	CATEGORY: CA	AT 5	
REMARKS:			3 years (Year1:0924-06-6	15 Year2:0924-06-612 21	-24 VOC (Kg/Da	ay): 2.784 C	O (Kg/Day): 44.015	
	TIP).Not	Transfer or Construction	on project.		NOX (Kg/Da	ay): 2.182 Pi	M 10 (Kg/Day): 1.041	

						PROJECT HISTO		RMS 23-26 TIP in F	V 2022 EVEM	oT.	
Total Project Cost	Information:		Ţ		<u>ir</u>	Togram in Kivio A		d Funding by Cate		<u></u>	
Preliminary Engineering:	\$0		į			Federal Share	State Share	Regional Share	Local Share	Lcl Contribution	<b>Total Share</b>
Right Of Way:	\$0	Cost of	Cat	5	CMAQ	\$1,796,170	\$0	\$0	\$449,043	\$0	\$2,245,213
Construction:	\$4,139,859	Approved		Fun	d by Share	\$1,796,170	\$0	\$0	\$449.043	\$0	\$2,245,213
Construction Engineering: \$0			1	runc	nd by Share	<b>σ1,730,170</b>	φ0	φυ	<b>Ф443,043</b>	φU	\$2,245,21 <b>3</b>
Contingencies:	\$0	\$2,245,213									
Indirects:	\$0										
Bond Financing:	\$0										
Potential Change Order:	\$0										
Total Project Cost:	\$4,139,859										
PROJECT AMENDMEN	T HISTORY										

		•					
STIP Rev Date(s)	FY(s)	Note/Amend Date	Note/Amendment				
07/2020	2023	05/2020	Program amended D2045	MTP, D21-24 TIP and	121-24 STIP in FY 2023		
07/2022	2023	03/2022	Program in RMS 2050 MTF	P and RMS 23-26 TIP	in FY 2023 - EXEMPT		
'STIP Rev Date(s)'	also refe	rs to TIP Administrati	ve Amendment (Local Revi	sion) Date			
TX DIST. 24	EP	0924-06-611	CS	C,E	El Paso	COEP	\$20,659,189

TIP PROJECT NAM	E: Sean Haggerty Dr Extension	REVISION DATE:	07/2022
LIMITS FROM:	Nathan Bay Dr	MPO PROJECT ID:	B201X-CAP
LIMITS TO:	Dyer St	MTP REFERENCE:	B201X-CAP

Sean Haggerty Dr Extension: Construct new 4-Lane bridge with pedestrian and bike facilities from Nathan Bay Dr to Dyer St. TIP DESCRIPTION: FUNDING CATEGORY: CAT 7, SWPE, CRRSAA

REMARKS: PROJECT HISTORY: Program into the RMS 2050 MTP, RMS 23-26 TIP and 23-26 STIP in FY 2023 Total Project Cost Information: Authorized Funding by Category/Share

Preliminary Engineering:	\$2,031,152				Federal Share	State Share	Regional Share	Local Share	Lcl Contribution	Total Share
Right Of Way:	\$0	Cost of	Cat 7	STP-MM	\$14,356,281	\$0	\$0	\$3,589,070	\$0	\$17,945,351
Construction:	\$16,811,519	Approved	Cat 7	CRRSA	\$1.303.838	\$0	\$0	\$0	\$0	\$1,303,838
Construction Engineering	: \$2,437,670	Phases:		Α	* 1,000,000	**	**	**	**	* ',,
Contingencies:	\$0	\$20,659,189	Cat SB	PE SWPE	\$0	\$1,410,000	\$0	\$0	\$0	\$1,410,000
Indirects:	\$288,738		Fu	nd by Share	\$15,660,119	\$1.410.000	\$0	\$3.589.070	\$0	\$20,659,189
Bond Financing:	\$0			ina by Onaic	ψ10,000,113	ψ1,410,000	Ψ	ψ5,505,010	ΨΟ	Ψ20,000,100
Potential Change Order:	\$0									

munects.	Ψ200,730		Fund b	v Share	\$15,660,119	\$1.410.000	\$0	\$3.589.070	\$0	\$20.659.189
Bond Financing:	\$0		, and b	y Chare	ψ10,000,110	ψ1, τ10,000	ų,	40,000,010	<b>Q</b>	<b>\$20,000,100</b>
Potential Change Order:	\$0									
Total Project Cost:	\$21,569,079									
PROJECT AMENDMENT	HISTORY									
STIP Rev Date(s) F	Y(s) Note/Ameno	Note Note/Δmc	ndment							

•			
07/2020	2023	05/2020	Program into amended D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2023
09/2021	2023	09/2021	Admin amed D2045 MTP, Amended D2045 MTP, D21-24 TIP and 21-24 STIP to replace \$1,410,000 of CAT 3 with SWPE funds in FY 2023
01/2022	2023	12/2021	Admin Amend to add \$1,303,838 of CRRSAA funds, and reduce CAT 7 STP funds to \$17,945,351 in FY 2023
07/2022	2023	03/2022	Program into the RMS 2050 MTP, RMS 23-26 TIP and 23-26 STIP in FY 2023
'STIP Rev Date(s	s)' also refers	to TIP Administ	rative Amendment (Local Revision) Date

LIMITS TO:

#### EL PASO MPO 2023-2026 STATE TRANSPORTATION IMPROVEMENT PROGRAM

#### EL PASO DISTRICT PROJECTS

TIP PAGE: 4

FY 2023 (SEPT - AUG) DISTRICT COUNTY **HWY PHASE** CITY PROJECT SPONSOR YOE COST TX DIST. 24 FP 3592-01-009 SH 178 C El Paso **TXDOT** \$193,500,000 **REVISION DATE:** 07/2022

TIP PROJECT NAME: SH 178 OPERATIONAL IMPROVEMENTS LIMITS FROM:

NM/TX STATELINE IH 10

TIP DESCRIPTION: SH 178 OPERATIONAL IMPROVEMENTS: Interchange improvements to include grade separation(s), rebuild I-10 overpass, U-turns, 4 Direct Connectors (DC) (3, 2-lane DC and

only EB to WB DC will be 1-Lane)

REMARKS: Program in to RMS 2050 MTP and RMS 23-26 TIP in FY 2023

\*Project Sponsor paying for PE and/or ROW Costs, if any.

PROJECT HISTORY:

Program into amended D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2023

MPO PROJECT ID:

MTP REFERENCE:

P136X

P136X FUNDING CATEGORY: CAT 12 Strategic Priority

**Total Project Cost Information:** Authorized Funding by Category/Share Preliminary Engineering: \$9,481,500 Federal Share State Share Regional Share **Local Share Lcl Contribution Total Share** Right Of Way: \$0 Cost of Cat 12 Strategic \$154,800,000 \$38,700,000 \$0 \$0 \$193.500.000 \$0 Approved Construction: \$193,500,000 Priorty Phases: Construction Engineering: \$10,583,391 Fund by Share \$154,800,000 \$38,700,000 \$0 \$0 \$193,500,000 \$10,676,160 Contingencies: \$193,500,000 Indirects: \$5,273,511 Bond Financing: \$0 Potential Change Order: \$2,669,040

#### PROJECT AMENDMENT HISTORY

**Total Project Cost:** 

REMARKS:

STIP Rev Date(s) FY(s) Note/Amend Date Note/Amendment

\$232,183,602

Program into amended D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2023 07/2020 2023 05/2020 07/2022 2023 03/2022 Program in to RMS 2050 MTP and RMS 23-26 TIP in FY 2023

'STIP Rev Date(s)' also refers to TIP Administrative Amendment (Local Revision) Date

TX DIST 24 ΕP 0665-02-002 SS320 С El Paso TXDOT \$20.497.532

TIP PROJECT NAME: Spur 320 PH I (BU 54 to Railroad Dr) **REVISION DATE:** 07/2022 LIMITS FROM: MPO PROJECT ID: P201B-CAP BU 54 (Dyer Street) LIMITS TO: Railroad Drive MTP REFERENCE: P201B-CAP TIP DESCRIPTION: Spur 320 PH I (BU 54 to Railroad Dr): SS320 Borderland Expressway Phase I: Construct 2- FUNDING CATEGORY: CAT 2M, CAT 11B

lane Frontage Roads in each direction and Intersections between BU54 (Dyer) to Railroad

\*Project Sponsor paying for PE and/or ROW Costs, if any.

PROJECT HISTORY:

Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2023

**Total Project Cost Information:** Authorized Funding by Category/Share Preliminary Engineering: \$2,500,000 Federal Share State Share **Regional Share Local Share** Lcl Contribution **Total Share** Right Of Way: \$2,520,000 Cost of CAT 2 Cat 2M \$8,398,026 \$2,099,506 \$0 \$0 \$10,497,532 \$0 Approved Construction: \$20,479,532 \$0 Cat 11 Ride \$8,000,000 \$2,000,000 \$0 \$0 \$10,000,000 Phases: Construction Engineering: \$1,642,611 11 B Contingencies: \$1,455,325 \$20,479,532 Fund by Share \$16,398,026 \$0 \$0 \$0 \$4.099.506 \$20,497,532 Indirects: \$624.321 Bond Financing: \$0 Potential Change Order: \$363,831

#### PROJECT AMENDMENT HISTORY

**Total Project Cost:** 

FY(s) STIP Rev Date(s) Note/Amend Date Note/Amendment

\$29,585,620

11/2021 2023 10/2021 Amend D2045MTP, Amended D2045MTP, D21-24 TIP to program in FY 2023

07/2022 2023 03/2022 Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2023

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#### EL PASO MPO 2023-2026 STATE TRANSPORTATION IMPROVEMENT PROGRAM

#### EL PASO DISTRICT PROJECTS

#### FY 2023 (SEPT - AUG)



DISTRICT	COUNTY	CSJ		нм	IY	PHASE	CI CI	TY	PROJECT SPO	NSOR	YOE COST
TX DIST. 24	EP	0924-06-56	6	VARIO	OUS	С	EIP	aso	COEP		\$3,669,976
TIP PROJECT NAM	ME: Traffic I	Management Ce	nter Upgrade	e Phase	2			REVISION DATE:	07/2022		
LIMITS FROM:	City of E	I Paso city limits						MPO PROJECT ID	: S301E		
LIMITS TO:	City of E	I Paso city limits						MTP REFERENCE	: S301E		
TIP DESCRIPTION						e of the City of El		FUNDING CATEGO	ORY: CAT 5 CM	ЛAQ	
					wide. P1 is the	design phase. P2	2-5 are the	VOC (Kg/Day): 17.5	51 CO (Kg/D	ay): 340.135	
DEMARKO.	•	entation&constru		•	4 00 F00 DL 0	. 0004 00 507 D	- 4- 0004 00	NOX (Kg/Day): 44.5	538 PM 10 (K	g/Day): 50.758	
REMARKS:	, ,	):0924-06-566 in d Ph 5: 0924-06-			4-06-566, Ph 3	: 0924-06-567, P	n 4: 0924-06-				
	500, and	11 11 3. 0324-00-	303 111 23-20								
*Drainet Changer no	wing for DE	and/ar DOW Car	ata if anu		lē	PROJECT HISTO					
*Project Sponsor pa	aying for PE	and/or ROW Cos	sis, ii ariy.					and RMS 23-26 TIP in	FY 2023 - EXE	MPT	
Total Project	Cost Inform	nation:		Ţ	<del>-</del>			ed Funding by Cate		:::::::::::::::::::::::::::::::::::::::	
Preliminary Engine		60,329		İ		Federal Share			Local Share	Lcl Contribution	Total Share
Right Of Way:	\$0		Cost of	Cat 5	5 CMAQ	\$2,935,981	\$0	\$0	\$733,995	\$0	\$3,669,976
Construction:	\$17,	122,380	Approved	į	Fund by Share	\$2,935,981	\$0	\$0	\$733,995	\$0	\$3,669,976
Construction Engine	eering: \$3,02	21,596	Phases:	į	rund by Snare	₹ \$2,935,961	φU	ΦU	<b>\$133,993</b>	\$0	\$3,009,970
Contingencies:	\$0		\$3,669,976								
Indirects:	\$319	,404									
Bond Financing:	\$0										
Potential Change O	rder: \$0										
Total Project Cost	: \$25,8	823,709									
PROJECT AMEND	MENT LICT	OBV									
			ata Nata/A	. a m al m	4						
STIP Rev Date(	s) FY(s)	Note/Amend D	ate Note/Am	iename	ent						

07/2020	2023	05/2020	Program into amended D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2023
02/2022	2023	01/2022	Amend to remove PE phase and reduce CAT 5 CMAQ funding to \$3,669,976
07/2022	2023	03/2022	Program in to RMS 2050 MTP and RMS 23-26 TIP in FY 2023 - EXEMPT
'STIP Ray Data/s	e)' also refers	to TIP Administr	ative Amendment (Local Revision) Date

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#### EL PASO MPO 2023-2026 STATE TRANSPORTATION IMPROVEMENT PROGRAM

#### EL PASO DISTRICT PROJECTS





				FY	2024 (SEPT - A	UG)				
DISTRICT CO	UNTY C	SJ	HWY		PHASE	CIT	Y F	PROJECT SPO	NSOR \	OE COST
TX DIST. 24	EP <b>0924</b>	-06-609	CS		C,E	El Pa	aso	COEP	9	\$1,869,824
TIP PROJECT NAME:	Border Highway	West Shared Use F	ath				REVISION DATE:	07/2022		
LIMITS FROM:	Racetrack (2) inte	rchange					MPO PROJECT ID:	E112X		
LIMITS TO:	Executive Center	(2) interchange					MTP REFERENCE:	E112X		
TIP DESCRIPTION:	Border Highway V	Vest Shared Use Pa	th: Project i	includes inst	allation of an 11-	foot asphalt	<b>FUNDING CATEGO</b>	RY: CAT 5		
İ	pavement hike an	d bike trail with irriga	ited landsc	aping.			VOC (Kg/Day): 0.22	1 CO (Kg/D	ay): 2.964	
REMARKS:	Program into RMS	S 2050 MTP and RM	S 23-26 TI	P in FY 2024	4 - EXEMPT		NOX (Kg/Day): 0.16	4 PM 10 (K	g/Day): 0.014	
Total Project Cos	st Information:		Ţ	<u>-</u>	lighway West Sh		d Funding by Cated	ory/Share		
Preliminary Engineering			į		Federal Share			Local Share	Lcl Contribution	Total Share
Right Of Way:	\$0	Cost of	Cat 5	CMAQ	\$1,495,859	\$0	\$0	\$373,965	\$0	\$1,869,824
Construction:	\$1,112,000	Approved	Fur	nd by Share	\$1,495,859	\$0	\$0	\$373,965	\$0	\$1,869,824
Construction Engineerin	g: \$414,560	Phases:	i ui	ild by Silaie	ψ1,495,059	ΨΟ	ΨΟ	ψ373,303	φυ	ψ1,003,02 <del>4</del>
Contingencies:	\$0	\$1,869,824								
Indirects:	\$22,898									
Bond Financing:	\$0									
D ( (' ) O )	00									

\$1,892,722

Potential Change Order: \$0

Total Project Cost: \$1,

STIP Rev Date(s)	FY(s)	Note/Amend Date	Note/Amendment
07/2020	2024	05/2020	Program into amended D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2024
11/2021	2024	07/2021	Amend D2045 MTP, AmendedD2045MTP, D21-24TIP and 21-24STIP to change project name to Border Highway West Shared Use Path
07/2022	2024	03/2022	Program into RMS 2050 MTP and RMS 23-26 TIP in FY 2024 - EXEMPT
 'STIP Rev Date(s)'	also refe	ers to TIP Administrat	ive Amendment (Local Revision) Date

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#### EL PASO MPO 2023-2026 STATE TRANSPORTATION IMPROVEMENT PROGRAM



12.52.50 T W					FI PAS	SO DISTRICT PR	OJECTS			-	~
						2024 (SEPT - A				El Paso Metropolitan Pl	anning Organization
DISTRICT	COUNTY	CSJ		HWY		PHASE	CIT	ΓY F	ROJECT SPOR	NSOR	YOE COST
TX DIST. 24	EP	0924-06-57	0	CS		C,E	El P	aso	COEP		\$2,572,079
TIP PROJECT NAM	E: Downto	wn Bicycle Imp	rovements P	hase I				REVISION DATE:	07/2022		
LIMITS FROM:	Various	(Please see TIP	page history	for complete	e street nam	nes)		MPO PROJECT ID:	M089A		
LIMITS TO:	Various	(Please see TIP	page history	for complete	e street nam	nes)		MTP REFERENCE:	M089A		
TIP DESCRIPTION:						DowntownToInclu		FUNDING CATEGO	RY: CAT 5 CN	ЛAQ	
						arkings,&Protecte		VOC (Kg/Day): 0.20	3 CO (Kg/D	ay): 3.778	
	ments.	ectWillincludeRo	oadDietsAsso	ciatedSigna	ge,Wayfind	ing,Striping,&Inte	rsection I reat	NOX (Kg/Day): 0.11	8 PM 10 (K	g/Day): 0.196	
REMARKS:		in to RMS 2050	MTP and RN	/IS 23-26 TI	P in FY 202	4 - FXFMPT					
	og.a	10 2000		20 20	0_						
					!Ē	ROJECT HISTO	RV·				
								nd RMS 23-26 TIP in	FY 2024 - EXE	MPT	
Total Project	Cost Inform	nation:		Ţ			Authorize	ed Funding by Categ	ory/Share		
Preliminary Engineer	ring: \$428	,357		j		Federal Share	State Share	Regional Share	Local Share	Lcl Contribution	Total Share
Right Of Way:	\$0		Cost of	Cat 5	CMAQ	\$2,057,663	\$0	\$0	\$514,416	\$0	\$2,572,079
Construction:	\$2,14	13,722	Approved	Fun	d by Share	\$2,057,663	\$0	\$0	\$514,416	\$0	\$2,572,079
Construction Engine	ering: \$0		Phases:	i un	u by Silaic	Ψ2,037,003	ΨΟ	Ψ	ψ51-,-10	ΨΟ	Ψ2,312,013
Contingencies:	\$0		\$2,572,079								
Indirects:	\$0										
Bond Financing:	\$0										
Potential Change Or	der: \$0										
Total Project Cost:	\$2,57	72,079									
PROJECT AMEND	MENT HIST	ORY									
STIP Rev Date(s	s) FY(s)	Note/Amend D	ate Note/Am	nendment							
07/2018	2022	05/2018	Program	n D2045 MT	P, D19-22 T	TIP, 19-22 STIP,	in FY 2022.				
								Santa Fe; Main from			
								om Santa Fe; Virginia			

07/2018	2022	05/2018	Program D2045 MTP, D19-22 TIP, 19-22 STIP, in FY 2022. From: El Paso from Franklin; El Paso from Sheldon; Main from Santa Fe; Main from Oregon; Mills from Sheldon; Missouri from Santa Fe; Myrtle from Stanton; San Antonio from Anthony; Sheldon from Santa Fe; Virginia to Mills; Magoffin from San Antonio To: Campbell to Paisano; El Paso to Main; El Paso to Paisano; Main to El Paso; Main to Campbell; Mills to Virginia; Missouri to Campbell; Myrtle to Campbell; San Antonio to Virginia; Sheldon to El Paso; Virginia to San Antonio; Magoffin to Virginia
11/2019	2022	10/2019	Amend the D2045 MTP, D19-23 TIP, 19-22 STIP to reduce CAT 5 CMAQ from \$4,272,273 to \$2,572,079 and update the Limits in FY 2022-Exempt From: Campbell from Missouri; El Paso from Sheldon; Main from Oregon; Mills from Sheldon; Missouri from Santa Fe; Myrtle from Stanton; San Antonio from Anthony; Sheldon from Santa Fe; Virginia to Mills; Magoffin from San Antonio To: Campbell to Paisano; El Paso to Overland; Main to Campbell; Mills to Virginia; Missouri to Campbell; Myrtle to Campbell; San Antonio to Virginia; Sheldon to El Paso; Virginia to San Antonio; Magoffin to Virginia
07/2020	2022	05/2020	Program into amended D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2022-Exempt From: Campbell from Missouri; El Paso from Sheldon; Main from Oregon; Mills from Sheldon; Missouri from Santa Fe; Myrtle from Stanton; San Antonio from Anthony; Sheldon from Santa Fe; Virginia to Mills; Magoffin from San Antonio To: Campbell to Paisano; El Paso to Overland; Main to Campbell; Mills to Virginia; Missouri to Campbell; Myrtle to Campbell; San Antonio to Virginia; Sheldon to El Paso; Virginia to San Antonio; Magoffin to Virginia
01/2021	2024	12/2021	Admin Amend to move from FY 2022 to FY 2024 - EXEMPT From: Campbell from Missouri; El Paso from Sheldon; Main from Oregon; Mills from Sheldon; Missouri from Santa Fe; Myrtle from Stanton; San Antonio from Anthony; Sheldon from Santa Fe; Virginia to Mills; Magoffin from San Antonio To: Campbell to Paisano; El Paso to Overland; Main to Campbell; Mills to Virginia; Missouri to Campbell; Myrtle to Campbell; San Antonio to Virginia; Sheldon to El Paso; Virginia to San Antonio; Magoffin to Virginia
07/2022	2024	03/2022	Program in to RMS 2050 MTP and RMS 23-26 TIP in FY 2024 - EXEMPT From: Campbell from Missouri; El Paso from Sheldon; Main from Oregon; Mills from Sheldon; Missouri from Santa Fe; Myrtle from Stanton; San Antonio from Anthony; Sheldon from Santa Fe; Virginia to Mills; Magoffin from San Antonio To: Campbell to Paisano; El Paso to Overland; Main to Campbell; Mills to Virginia; Missouri to Campbell; Myrtle to Campbell; San Antonio to Virginia; Sheldon to El Paso; Virginia to San Antonio; Magoffin to Virginia

DISTRICT

TX DIST. 24

LIMITS TO:

REMARKS:

#### EL PASO MPO 2023-2026 STATE TRANSPORTATION IMPROVEMENT PROGRAM

EL PASO DISTRICT PROJECTS FY 2024 (SEPT - AUG) HWY **PHASE** CITY PROJECT SPONSOR YOE COST

Socorro

TIP PROJECT NAME: Nuevo Hueco Tanks Extension (FM 76 to SH20) - Construction LIMITS FROM: FM 76 North Loop Dr

0924-06-607

SH 20 - Alameda Avenue

**REVISION DATE:** 07/2022 MPO PROJECT ID:

A527X-CAP-1 MTP REFERENCE: A527X-CAP-1

FUNDING CATEGORY: CAT 7, CAT 3 LC

Socorro

TIP PAGE: 8

\$14,971,134

TIP DESCRIPTION:

COUNTY

FP

Nuevo Hueco Tanks Extension (FM 76 to SH20) - Construction: Build 4 lane roadway and shared-use path

Program into amended D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2024

CS

\*Project Sponsor paying for PE and/or ROW Costs, if any

Total Project Cost	Information:		!			Authorize	d Funding by Cate	gory/Share		
Preliminary Engineering:	\$3,415,820		İ		Federal Share	State Share	Regional Share	Local Share	Lcl Contribution	Total Share
Right Of Way:	\$1,500,000	Cost of	Cat 3	LC Local	\$0	\$0	\$0	\$0	\$9,971,134	\$9,971,134
Construction:	\$11,518,378	Approved	İ	Contribu						
Construction Engineering	: \$1,727,756	Phases:	1	tion						
Contingencies:	\$1,725,000	\$14,971,134		(TRZ)	<b>*</b>	•	•	<b>*</b> * * * * * * * * * * * * * * * * * *	•	<b>A=</b> 000 000
Indirects:	\$0		Cat 7	STP-MM	\$4,000,000	\$0	\$0	\$1,000,000	\$0	\$5,000,000
Bond Financing:	\$0		F	und by Share	\$4,000,000	\$0	\$0	\$1,000,000	\$9,971,134	\$14,971,134
Potential Change Order:	\$0									

PROJECT AMENDMENT HISTORY

**Total Project Cost:** 

LIMITS TO:

STIP Rev Date(s) Note/Amend Date Note/Amendment FY(s)

\$19.886.954

7/2020 2024 05/2020 Program into amended D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2024

Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2024 07/2022 2024 03/2022

'STIP Rev Date(s)' also refers to TIP Administrative Amendment (Local Revision) Date

COEP \$5,000,000 TX DIST. 24 0924-06-567 FI Paso

TIP PROJECT NAME: Traffic Management Center Upgrade Phase 3 LIMITS FROM:

**REVISION DATE:** 07/2022 City of El Paso city limits MPO PROJECT ID: S301F City of El Paso city limits MTP REFERENCE: S301F FUNDING CATEGORY: CAT 3 LC, CAT 5

TMCUPhase3 Construction: The project includes the upgrade of the City of El Paso TIP DESCRIPTION:

TMC&Traffic Signal controller equipment city wide. P1 is the design phase. P2-5 are the VOC (Kg/Day): 17.51 CO (Kg/Day): 340.135

implementation&construction of the design. REMARKS:

NOX (Kg/Day): 44.538 PM 10 (Kg/Day): 50.758 Ph1(PE):0924-06-566 in 21-24 TIP. Ph 2: 0924-06-566, Ph 3: 0924-06-567, Ph 4: 0924-06-

568, and Ph 5: 0924-06-569 in 23-26 TIP

\*Project Sponsor paying for PE and/or ROW Costs, if any.

PROJECT HISTORY:

Program into amended RMS 2050 MTP and RMS 23-26 TIP in FY 2024 - EXEMPT

Total Project Cost	Information:		Ţ			Authorize	d Funding by Cate	gory/Share		
Preliminary Engineering:	\$5,360,329		į		Federal Share	State Share	Regional Share	Local Share	Lcl Contribution	<b>Total Share</b>
Right Of Way:	\$0	Cost of	Cat 3	BLC Local	\$0	\$0	\$0	\$0	\$2,750,000	\$2,750,000
Construction:	\$17,122,380	Approved	i	Contribu						
Construction Engineering:	\$3,021,596	Phases:		tion						
Contingencies:	\$0	\$5,000,000	Cat 5	5 CMAQ	\$1,800,000	\$0	\$0	\$450,000	\$0	\$2,250,000
Indirects:	\$319,404			Fund by Share	\$1,800,000	\$0	\$0	\$450,000	\$2,750,000	\$5,000,000
Bond Financing:	\$0		•							

PROJECT AMENDMENT HISTORY

Potential Change Order: **Total Project Cost:** 

> STIP Rev Date(s) FY(s) Note/Amend Date Note/Amendment

\$25,823,709

07/2020 2024 05/2020 Program into amended D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2024 Program into amended RMS 2050 MTP and RMS 23-26 TIP in FY 2024 - EXEMPT 07/2022 2024 03/2022

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REMARKS:

#### EL PASO MPO 2023-2026 STATE TRANSPORTATION IMPROVEMENT PROGRAM

#### EL PASO DISTRICT PROJECTS

#### FY 2024 (SEPT - AUG)

TIP PAGE: 9

El Paso Metropolitan Planning Organization

DISTRICT	COUNTY	CSJ	HWY	PHASE	CITY	PROJECT SPONSOR	YOE COST
TX DIST. 24	EP	0924-06-606	CS	C,R	Vinton	Vinton	\$7,500,000
TIP PROJECT NAI	ME: VALLEY	<b>CHILE RD RECONST</b>	RUCTION		REVISION	I DATE: 07/2022	
LIMITS FROM:	SH 20 (D	ONIPHAN DR)			MPO PRO	JECT ID: A137X	
LIMITS TO:	IH -10				MTP REF	ERENCE: A137X	
TIP DESCRIPTION	INCLUDE			ICTION OF ROADWAY TO LUMINATION, LANDCSAF		CATEGORY: CAT 7 STP-MM	

*Project Sponsor paying	for PE and/or RO\	N Costs, if any.			PROJECT HISTO Program into ame		TP, D21-24 TIP and	d 21-24 STIP in F	-Y 2024	
Total Project Cost	Information:		T			Authorize	d Funding by Cate	gory/Share		
Preliminary Engineering:	\$1,000,000				Federal Share	State Share	Regional Share	Local Share	Lcl Contribution	Total Share
Right Of Way:	\$500,000	Cost of	Cat	7 STP-MM	\$6,000,000	\$0	\$0	\$1,500,000	\$0	\$7,500,000
Construction:	\$7,000,000	Approved		Fund by Share	\$6.000.000	\$0	\$0	\$1.500.000	\$0	\$7.500.000
Construction Engineering	: \$350,000	Phases:	į	i unu by Snare	φυ,υυυ,υυυ	ΨΟ	ΨΟ	φ1,500,000	ΨΟ	ψ1,500,000
Contingencies:	\$700,000	\$7,500,000								
In disc ato.	ФО.									

Total Project Cost:	\$9,550,000	
Potential Change Order:	\$0	
Bond Financing:	\$0	
Indirects:	\$0	
Contingencies:	\$700,000	\$7,500,000
Construction Engineering:	. \$350,000	

Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2024

#### PROJECT AMENDMENT HISTORY

	STIP Rev Date(s)	FY(s)	Note/Amend Date	Note/Amendment					
	07/2020	2024	05/2020	Program into amended D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2024					
	07/2022	2024	03/2022	Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2024					
'STIP Rev Date(s)' also refers to TIP Administrative Amendment (Local Revision) Date									

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#### EL PASO MPO 2023-2026 STATE TRANSPORTATION IMPROVEMENT PROGRAM

#### EL PASO DISTRICT PROJECTS

TIP PAGE: 10

**FY 2025 (SEPT - AUG)** DISTRICT COUNTY HWY **PHASE** CITY PROJECT SPONSOR YOE COST TX DIST. 24 FP C,E,R Horizon City Horizon \$6,184,474

**REVISION DATE:** 07/2022 TIP PROJECT NAME: Dilley Road and Delake Street Construction LIMITS FROM: **Darrington Road** MPO PROJECT ID: A442X MTP REFERENCE: LIMITS TO: Rodman Street A442X

TIP DESCRIPTION: Dilley Road and Delake Street Construction: Construction of two roadways, each with two lanes, enhanced pedestrian facilities, bike lanes and illumination to provide access to the

Horizon City Transit Oriented Town Center.

REMARKS: Program to the RMS 2050 MTP and the RMS 23-26 TIP in FY 2025

Authorized Funding by Category/Share **Total Project Cost Information:** Preliminary Engineering: \$1,089,055 Federal Share **State Share** Regional Share Lcl Contribution **Total Share** Right Of Way: \$738.138 Cost of Cat 3TRZ TRZ \$0 \$0 \$0 \$6,184,474 \$6,184,474 Approved Construction: \$3,006,518 \$0 \$0 \$0 \$6,184,474 \$6,184,474 **Fund by Share** \$0 Phases: Construction Engineering: \$621,364 Contingencies: \$729,399 \$6,184,474 Indirects: \$0 Bond Financing: \$0 Potential Change Order: \$0 **Total Project Cost:** \$6,184,474 PROJECT AMENDMENT HISTORY

STIP Rev Date(s) FY(s) Note/Amend Date Note/Amendment

07/2022 03/2022 Program to the RMS 2050 MTP and the RMS 23-26 TIP in FY 2025

'STIP Rev Date(s)' also refers to TIP Administrative Amendment (Local Revision) Date

ΕP COEP TX DIST 24 BU 54-A C,E FI Paso 0167-02-085 \$1,816,229

TIP PROJECT NAME: Dyer Pedestrian Sidewalk Improvements

LIMITS FROM: Gateway Boulevard North MPO PROJECT ID: LIMITS TO: Hercules Ave MTP REFERENCE:

TIP DESCRIPTION: Dyer Pedestrian Sidewalk Improvements: Project includes sidewalk improvements to FUNDING CATEGORY: CAT 5 CMAQ

pedestrian connectivity and accessibility on Dyer St from Gateway to Hercules Ave.

Improves access to BRIO stations at Dyer and Hercules.

REMARKS:

CO (Kg/Day): 0.388 VOC (Kg/Day): 0.028 NOX (Kg/Day): 0.036 PM 10 (Kg/Day): 0.001

07/2022

E201X

E201X

**REVISION DATE:** 

FUNDING CATEGORY: CAT 3 TRZ

Program into RMS 2050 MTP and RMS 23-26 TIP in FY 2025-EXEMPT

**Total Project Cost Information:** Authorized Funding by Category/Share Preliminary Engineering: \$328,229 Federal Share Total Share State Share Regional Share Local Share Lcl Contribution Right Of Way: \$0 Cost of \$363,246 \$1,816,229 Cat 5 CMAQ \$1,452,983 \$0 \$0 \$0 Approved Construction: \$1,200,000 Fund by Share \$0 \$0 \$0 \$1,452,983 \$363,246 \$1,816,229 Phases: Construction Engineering: \$288,000 \$1,816,229 Contingencies: \$0

Indirects: \$22,860 Bond Financing: \$0 Potential Change Order: \$0 **Total Project Cost:** \$1,839,089

PROJECT AMENDMENT HISTORY

STIP Rev Date(s) FY(s) Note/Amend Date Note/Amendment

Program into RMS 2050 MTP and RMS 23-26 TIP in FY 2025-EXEMPT 07/2022 03/2022

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#### EL PASO MPO 2023-2026 STATE TRANSPORTATION IMPROVEMENT PROGRAM

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EL PASO DISTRICT PROJECTS **FY 2025 (SEPT - AUG)** PROJECT SPONSOR HWY **PHASE** CITY YOE COST

Horizon City

ΕP TIP PROJECT NAME: Horizon City Transit Plaza

COUNTY

Bordered by Darrington Road (west) and Rodman Street (east)

**REVISION DATE:** 

Horizon \$3,198,138

TIP PAGE: 11

LIMITS FROM: LIMITS TO:

DISTRICT

TX DIST. 24

MPO PROJECT ID:

Bordered by Horizon Boulevard (south)

07/2022

TIP DESCRIPTION:

Horizon City Transit Plaza: Development of Transit Plaza with parking within the Horizon

00

MTP REFERENCE: T410X

Country Club Estates Subdivision(s) REMARKS: Program to RMS 2050 MTP and RMS 23-26 TIP in FY 2025 FUNDING CATEGORY: CAT 3 TRZ

T410X

Total Project	Cost Information:		Authorized Funding by Category/Share									
Preliminary Engineer	ring: \$483,881			Federal Share	State Share	Regional Share	Local Share	Lcl Contribution	Total Share			
Right Of Way:	\$283,776	Cost of	Cat 3TRZ TRZ Fund by Share	\$0	\$0	\$0	\$0	\$3,198,138	\$3,198,138			
Construction:	\$1,731,270	Approved		e \$0	\$0	\$0	\$0	\$3.198.138	\$3,198,138			
Construction Engineering: \$329,777		Phases:	Fullu by Silan	÷ \$0	φu	Ψ	ΨΟ	ψ5,130,130	<b>\$3,190,130</b>			
Contingencies:	\$369,434	\$3,198,138										
Indirects:	\$0											

Bond Financing: \$0

**Total Project Cost:** \$3,198,138

PROJECT AMENDMENT HISTORY

STIP Rev Date(s) FY(s) Note/Amend Date Note/Amendment

07/2022 2025 03/2022

\$0

Program to RMS 2050 MTP and RMS 23-26 TIP in FY 2025

'STIP Rev Date(s)' also refers to TIP Administrative Amendment (Local Revision) Date

TX DIST. 24 ΕP 2121-02-167 IH 10 El Paso **TxDOT** \$16,475,973

TIP PROJECT NAME: I-10 FR Ext PH I (Executive to Sunland Park)

**EXECUTIVE CENTER BLVD** 

**REVISION DATE:** MPO PROJECT ID:

07/2022 1061X-CAP-1

LIMITS TO: TIP DESCRIPTION:

LIMITS FROM:

REMARKS:

Potential Change Order:

SUNLAND PARK DR

MTP REFERENCE: 1061X-CAP-1

I-10 FR Ext PH I (Executive to Sunland Park): Construct 2-lane Westbound Frontage Road, FUNDING CATEGORY: CAT 2-TMA

Frontage Road Improvements.

Program to RMS 2050 MTP and to RMS 23-26 TIP in FY 2025

\$16,475,973

\*Project Sponsor paying for PE and/or ROW Costs, if any.

Total Project Cost I	nformation:		- 1	Authorized Funding by Category/Share									
Preliminary Engineer	ring: \$787,500		į		Federal Share	State Share	Regional Share	Local Share	Lcl Contribution	Total Share			
Right Of Way:	\$0	Cost of	Cat 2M	TMA	\$13,180,777	\$3,295,196	\$0	\$0	\$0	\$16,475,973			
Construction:	\$16,475,973	Approved	Fur	nd by Share	\$13,180,777	\$3,295,196	\$0	\$0	\$0	\$16.475.973			
Construction Engine	ering: \$1.015.171	Phases:	i ui	id by Silaie	Ψ13,100,777	ψ3,233,130	ΨΟ	ΨΟ	Ψυ	Ψ10, Ψ13,313			

Contingencies: \$668,454 \$450 841 Indirects:

Bond Financing: \$0 Potential Change Order: \$167,113

**Total Project Cost:** \$19,565,052

PROJECT AMENDMENT HISTORY

STIP Rev Date(s) FY(s) Note/Amend Date Note/Amendment

07/2022 2025 03/2022 Program to RMS 2050 MTP and to RMS 23-26 TIP in FY 2025

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#### EL PASO MPO 2023-2026 STATE TRANSPORTATION IMPROVEMENT PROGRAM

TIP PAGE: 12

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								DISTRICT PR <b>25 (SEPT - A</b>				El Paso Metropolitan Pl	anning Organization
DISTRICT	COUNTY	CSJ		н	WY			PHASE	CI <sup>-</sup>	TY P	ROJECT SPO	NSOR	YOE COST
TX DIST. 24	EP	2121-03-1	46	IH	H 10			С	El P		TXDOT		\$16,820,000
TIP PROJECT NA	ME: IH 10 Int	erchange at F	Pendale (Lee Ti	revin	o to F	M659)				REVISION DATE:	07/2022		
LIMITS FROM:	Lee Trev	rino								MPO PROJECT ID:	I006X-15	A	
LIMITS TO:	East of F	M 659 (Zarago	oza Rd)							MTP REFERENCE:	1006X-15A	A	
TIP DESCRIPTION	N: IH 10 Int	erchange at Pe	endale (Lee Tre	vino t	o FM6	659): CON	NSTR	UCT INTERC	HANGE	FUNDING CATEGO	RY: CAT 12		
REMARKS:	Program	in RMS 2050	MTP and RMS	23-26	TIP i	n FY 2025	5						
*Project Sponsor p	aying for PE a	and/or ROW C	osts, if any.							P, D21-24 TIP and 21	-24 STIP to dep	program from 2024	and reprogram ir
Total Projec	t Cost Inforn	nation:		Ţ			2020		Authorize	ed Funding by Categ	orv/Share		
Preliminary Engine				i			Fe	deral Share			Local Share	Lcl Contribution	Total Share
Right Of Way:	\$0	,	Cost of	Cat	12	Strateg	nic \$	13,456,000	\$3,364,000	\$0	\$0	\$0	\$16,820,000
Construction:	\$16,8	320,000	Approved			Priority		.0, .00,000	φο,σο .,σοσ	Ψ0	Ų.	Ψ°	ψ.σ,σ <u>2</u> σ,σσσ
Construction Engin	neering: \$16,2	207,272	Phases:					\$0	\$0	\$0	\$0	\$0	\$0
Contingencies:	\$951		\$16,820,000		Fun	d by Shar	re \$	13,456,000	\$3,364,000	\$0	\$0	\$0	\$16,820,000
Indirects:	\$470	,011		į		ia by Ona.	.υ ψ	10,100,000	ψο,σσ-1,σσσ	Ψū	<b>Q</b> 0	ΨÜ	ψ.σ,σ <b>2</b> σ,σσσ
Bond Financing:	\$0												
Potential Change C	Order: \$237	,883											
<b>Total Project Cost</b>	t: \$35,5	510,877											
PROJECT AMEND STIP Rev Date			Date Note/Am	endn	nent								
07/2020	2024	05/2020	Program	into	ameno	ded D2045	5 MTF	P, D21-24 TIP	and 21-24 ST	ΓΙΡ in FY 2024			
11/2020	2025	11/2020	Amend t	he an	nende	d D2045 N	MTP.	D21-24 TIP a	and 21-24 STIF	o to deprogram from 2	024 and reprod	ıram in 2025	
07/2022	2025	03/2022						MS 23-26 TIP				,	
'STIP Rev Date			- 3						1 2020				
TX DIST. 24	EP	0924-06-5			CS	ai itevisioi	iii) Da	С	EIP	laca	El Paso Cour	otv	\$18,000,000
TIP PROJECT NA						on Dhaco	2)	C	LIF	REVISION DATE:	07/2022	inty	\$ 10,000,000
LIMITS FROM:	Pellicano		on/berryvine/(	CUIIS	ucu	UII FIIASE	<del>2</del> )			MPO PROJECT ID:	P004X-C	ΔP-2	
LIMITS TO:	Montwoo									MTP REFERENCE:	P004X-C/		
TIP DESCRIPTION	N: John Ha each dire	yes (Darringto	n/Berryville)(Co e lanes. Existing							FUNDING CATEGO			
REMARKS:		ude PE (CSJ ( TIP and 2	0924-06-564 pro	ogram	nmed i	in 19-22 T	TP), F	Phase 1 (CSJ	0924-06-564				
*Project Sponsor p			osts, if any.					JECT HISTO ram to RMS 2		RMS 23-26 TIP in FY	´ 2025		
	t Cost Inforn			-						ed Funding by Categ	•		
Preliminary Engine	•	55,280		1					State Share	Regional Share		Lcl Contribution	Total Share
Right Of Way:	\$0		Cost of	Cat	7	STP-MI	IM \$	14,400,000	\$0	\$0	\$3,600,000	\$0	\$18,000,000
Construction:		000,000	Approved Phases:	-	Fun	d by Shar	re \$	14,400,000	\$0	\$0	\$3,600,000	\$0	\$18,000,000
Construction Engin				1		-	·		,-	•		•	
Contingencies:	\$3,00	00,000	\$18,000,000										

Total Project Cost	Information:			Authorized Funding by Category/Share										
Preliminary Engineering:	\$2,555,280		ļ		Federal Share	State Share	Regional Share	Local Share	Lcl Contribution	Total Share				
Right Of Way:	\$0	Cost of	Cat 7	STP-MM	\$14,400,000	\$0	\$0	\$3,600,000	\$0	\$18,000,000				
Construction:	\$30,000,000	Approved		und by Share	\$14,400,000	\$0	\$0	\$3,600,000	\$0	\$18,000,000				
Construction Engineering	: \$1,500,000	Phases:		und by Snare			ΨΟ	ψ3,000,000						
Contingencies:	\$3,000,000	\$18,000,000												
Indirects:	\$0													
Bond Financing:	\$0													
Potential Change Order:	\$0													
Total Project Cost:	\$37,055,280													

#### PROJECT AMENDMENT HISTORY

STIP Rev Date(s)	FY(s)	Note/Amend Date	Note/Amendment
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Program to RMS 2050 MTP and RMS 23-26 TIP in FY 2025 07/2022 03/2022

#### EL PASO MPO 2023-2026 STATE TRANSPORTATION IMPROVEMENT PROGRAM

#### EL PASO DISTRICT PROJECTS

FY 2025 (SEPT - AUG)



				1 1 2020 (02: 1 7100)				
DISTRICT	COUNTY	CSJ	HWY	PHASE	CIT	Y PRO	JECT SPONSOR	YOE COST
TX DIST. 24	EP	0924-06-568	VARIOUS	С	El Pa	SO SO	COEP	\$5,180,000
TIP PROJECT NA	ME: Traffic	Management Center Up	ograde Phase 4			REVISION DATE:	07/2022	
LIMITS FROM:	City of I	El Paso City Limits				MPO PROJECT ID:	S301G	
LIMITS TO:	City of I	El Paso City Limits			1	MTP REFERENCE:	S301G	
TIP DESCRIPTION				rade of the City of El Paso		FUNDING CATEGORY:	CAT 5 CMAQ, CAT 3 LCL	
		•		the design phase. P2-5 are th	ie ·	VOC (Kg/Day): 17.51	CO (Kg/Day): 340.135	
	•	entation&construction of	•			NOX (Kg/Day): 44.538	PM 10 (Kg/Day): 50.758	
REMARKS:	,	,	,	Ph 3: 0924-06-567, Ph 4: 0924	4-06-	, ,	, ,	
	568, an	d Ph 5: 0924-06-569 in 2	23-26 TIP					

				F	rogram to 23-26	. —	2050 MTP in FY 202			
Total Project Cost	Information:		!			Authorize	d Funding by Cate	gory/Share		
Preliminary Engineering:	\$5,360,329		Ì		Federal Share	State Share	Regional Share	Local Share	Lcl Contribution	Total Share
Right Of Way:	\$0	Cost of	Cat 5	CMAQ	\$3,393,926	\$0	\$0	\$848,482	\$0	\$4,242,408
Construction:	\$17,122,380	Approved	Cat 3L	C LCL	\$0	\$0	\$0	\$0	\$937,592	\$937,592
Construction Engineering	: \$3,021,596	Phases:			40.000.000		•	<b>***</b>	**************************************	AF 400 000
Contingencies:	\$0	\$5,180,000	Fu	nd by Share	\$3,393,926	\$0	\$0	\$848,482	\$937,592	\$5,180,000
Indirects:	\$319,404									
Bond Financing:	\$0									
Potential Change Order:	\$0									
Total Project Cost:	\$25,823,709	_								

PROJECT AMENDME	NI HISI	UKT
STIP Pay Data(s)	FV(e)	Note/Amend

Note/Amend Date Note/Amendment FY(s)

07/2022 2025 03/2022 Program to 23-26 TIP and RMS 2050 MTP in FY 2025

'STIP Rev Date(s)' also refers to TIP Administrative Amendment (Local Revision) Date

TX DIST. 24 TXDOT 0167-01-122 US 54 El Paso \$39,169,068 REVISION DATE: 07/2022

TIP PROJECT NAME: US54 (PATRIOT FWY) MAINLANES (KENWORTHY TO FM2529) AND RAMP

RECONFIGURATION

MPO PROJECT ID: F001B-15A KENWORTHY MTP REFERENCE: F001B-15A

LIMITS FROM: LIMITS TO: FM 2529 (MCCOMBS) FUNDING CATEGORY: CAT 2 TMA, CAT 11

US54 (PATRIOT FWY) MAINLANES (KENWORTHY TO FM2529) AND RAMP TIP DESCRIPTION:

RECONFIGURATION: BUILD 4 LANE DIVIDED HWY AND GRADE SEPARATIONS AND

RAMP RECONFIGURATION

REMARKS: Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2025

PROJECT HISTORY: \*Project Sponsor paying for PE and/or ROW Costs, if any.

Amend the amended D2045 MTP, D21-24 TIP and 21-24 STIP to deprogram from FY 2023 and

					re	porgram to FY 2	2025	,	•	J	
Total Project Cos	t Information:		7				Authorize	d Funding by Cate	gory/Share		
Preliminary Engineering	: \$1,919,284		į			Federal Share	State Share	Regional Share	Local Share	Lcl Contribution	Total Share
Right Of Way:	\$0	Cost of	Cat	2M	2M	\$29,072,000	\$7,268,000	\$0	\$0	\$0	\$36,340,000
Construction:	\$39,169,068	Approved	('21	at 11	District	\$2.263.254	\$565.814	\$0	\$0	\$0	\$2,829,068
Construction Engineering	: \$2,184,900	Phases:			Discretio	+ ,, -	******	**	**	**	<b>4</b> =,===,===
Contingencies:	\$1,748,619	\$39,169,068			nary						
Indirects:	\$1,077,587			Fun	d by Share	\$31,335,254	\$7,833,814	\$0	\$0	\$0	\$39,169,068
Bond Financing:	\$0		•								
Potential Change Order:	\$437,155										
Total Project Cost:	\$46 536 613										

#### PROJECT AMENDMENT HISTORY

STIP Rev Date(s)	FY(s)	Note/Amend Date	Note/Amendment						
07/2020	2023	05/2020	Program into amended D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2023						
11/2020	2025	11/2020	Amend the amended D2045 MTP, D21-24 TIP and 21-24 STIP to deprogram from FY 2023 and reporgram to FY 2025						
07/2022	2025	03/2022	Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2025						
'STIP Rev Date(s)' also refers to TIP Administrative Amendment (Local Revision) Date									

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#### EL PASO MPO 2023-2026 STATE TRANSPORTATION IMPROVEMENT PROGRAM

### EL PASO DISTRICT PROJECTS



TIP PAGE: 14

**FY 2026 (SEPT - AUG)** PROJECT SPONSOR DISTRICT COUNTY HWY **PHASE** CITY YOE COST TX DIST. 24 FP 0924-06-665 CS C,E El Paso COEP \$4,856,897

**REVISION DATE:** 07/2022 TIP PROJECT NAME: Buffalo Soldier Street Improvements LIMITS FROM: Edgemere Blvd MPO PROJECT ID: R401X MTP REFERENCE: LIMITS TO: Montana Ave R401X TIP DESCRIPTION: Buffalo Soldier Street Improvements: Project includes complete roadway reconstruction, FUNDING CATEGORY: CAT 7 STP MM

parkway improvements, sidewalks, bicycle facilities, street illumination, landscaping and irrigation, and striping

REMARKS: Program to RMS 2050 MTP and RMS 23-26 TIP in FY 2026

**Total Project Cost Information:** Authorized Funding by Category/Share Preliminary Engineering: \$822,185 Federal Share **State Share** Regional Share **Local Share Lcl Contribution Total Share** Right Of Way: \$0 Cost of Cat 7 STP MM \$3,885,518 \$0 \$971,379 \$4,856,897 Approved Construction: \$3,551,386 \$0 \$971,379 \$4,856,897 **Fund by Share** \$3,885,518 Phases: Construction Engineering: \$483,326 Contingencies: \$0 \$4,856,897 Indirects: \$62,119 Bond Financing: \$0 Potential Change Order: \$0 **Total Project Cost:** \$4,919,016

PROJECT AMENDMENT HISTORY

REMARKS:

STIP Rev Date(s) FY(s) Note/Amend Date Note/Amendment

07/2022 03/2022 Program to RMS 2050 MTP and RMS 23-26 TIP in FY 2026

'STIP Rev Date(s)' also refers to TIP Administrative Amendment (Local Revision) Date

El Paso COEP TX DIST 24 FΡ 0924-06-666 C,E \$3,273,082

TIP PROJECT NAME: Carolina Street Improvements **REVISION DATE:** 07/2022 LIMITS FROM: Stiles Dr. MPO PROJECT ID: R501X LIMITS TO: North Loop Dr MTP REFERENCE: R501X TIP DESCRIPTION:

Carolina Street Improvements: Project includes complete roadway reconstruction, parkway FUNDING CATEGORY: Cat. 7 STP MM

improvements, bicycle facilities, street illumination, and striping on Carolina Dr from Stiles Dr to North Loop Dr.

Amend the RMS 2050 MTP and RMS 23-26 TIP to program in FY 2026-EXEMPT

**Total Project Cost Information:** Authorized Funding by Category/Share Preliminary Engineering: \$610,760 Federal Share State Share **Regional Share Local Share Lcl Contribution Total Share** Right Of Way: \$0 Cost of STP MM \$2 618 466 \$0 \$0 \$654.616 \$3 273 082 Cat 7 \$0 Approved Construction: \$2,375,310 **Fund by Share** \$2,618,466 \$0 \$0 \$654,616 \$0 \$3,273,082 Phases: Construction Engineering: \$287,012 \$3,273,082 Contingencies: \$0 Indirects: \$41,004

Bond Financing: \$0 Potential Change Order: \$0 **Total Project Cost:** \$3,314,086

PROJECT AMENDMENT HISTORY

STIP Rev Date(s) Note/Amend Date Note/Amendment FY(s)

07/2022 02/2022 Amend the RMS 2050 MTP and RMS 23-26 TIP to program in FY 2026-EXEMPT 2026

'STIP Rev Date(s)' also refers to TIP Administrative Amendment (Local Revision) Date

#### EL PASO MPO 2023-2026 STATE TRANSPORTATION IMPROVEMENT PROGRAM

### EL PASO DISTRICT PROJECTS

TIP PAGE: 15

				FY 2026 (SEPT - AU	G)		
DISTRICT	COUNTY	CSJ	HWY	PHASE	CITY	PROJECT SPONSOR	YOE COST
TX DIST. 24	EP	0924-06-625	CS	C,E	El Paso	COEP	\$14,856,000
TIP PROJECT NA	AME: Railroad	Dr. Widening and Red	construction		REVISION	DATE: 07/2022	

MPO PROJECT ID: LIMITS FROM: Purple Heart Highway P219X-CAP LIMITS TO: Shrub Oak Drive MTP REFERENCE: P219X-CAP

TIP DESCRIPTION: Railroad Dr. Widening and Reconstruction: Addition of 1 In. in each dir. from Purple Heart FUNDING CATEGORY: CAT 7 STPMM, CAT 3 LCL Hwy. to Shrub Oak Dr. to increase capacity from 2 to 4 ln. Project includes road rehab and

reconstruction of existing road from Purple Heart Hwy. to Shrub Oak Dr. REMARKS: Program to RMS 2050 MTP and RMS 23-26 TIP in FY 2026

Total Project Cost	Information:		Ţ	Authorized Funding by Category/Share								
Preliminary Engineering:	\$1,500,000		į			Federal Share	State Share	Regional Share	Local Share	Lcl Contribution	<b>Total Share</b>	
Right Of Way:	\$0	Cost of	Cat	7	STP MM	\$10,192,000	\$0	\$0	\$2,548,000	\$0	\$12,740,000	
Construction:	\$12,100,000	Approved	Cat	3LC	LCL	\$0	\$0	\$0	\$0	\$2.116.000	\$2,116,000	
Construction Engineering	: \$1,256,000	Phases:					· · · · · · · · · · · · · · · · · · ·			* / -/	. , ,	
Contingencies:	\$0	\$14,856,000	!	Func	d by Share	\$10,192,000	\$0	\$0	\$2,548,000	\$2,116,000	\$14,856,000	
Indirects:	\$200,340											
Bond Financing:	\$0											
Potential Change Order:	\$0											

#### PROJECT AMENDMENT HISTORY

**Total Project Cost:** 

STIP Rev Date(s) FY(s) Note/Amend Date Note/Amendment

\$15,056,340

07/2022 03/2022 Program to RMS 2050 MTP and RMS 23-26 TIP in FY 2026

'STIP Rev Date(s)' also refers to TIP Administrative Amendment (Local Revision) Date

TX DIST. 24	EP	0924-06-569	VARIOUS	С	El Paso	COEP	\$6,294,000
TIP PROJECT NAME	E: Traffic N	lanagement Center Up	grade Phase 5		REVISION DATE:	07/2022	
LIMITS FROM:	City of El	I Paso City Limits			MPO PROJECT ID:	S301H	

LIMITS TO: City of El Paso City Limits MTP REFERENCE: S301H TIP DESCRIPTION: TMCUPhase5 Construction: The project includes the upgrade of the City of El Paso FUNDING CATEGORY: CMAQ

TMC&Traffic Signal controller equipment city wide. P1 is the design phase. P2-5 are the VOC (Kg/Day): 17.51 CO (Kg/Day): 340.135 implementation&construction of the design. PM 10 (Kg/Day): 50.758

NOX (Kg/Day): 44.538 REMARKS: Ph1(PE):0924-06-566 in 21-24 TIP. Ph 2: 0924-06-566, Ph 3: 0924-06-567, Ph 4: 0924-06-

568, and Ph 5: 0924-06-569 in 23-26 TIP

\*Project Sponsor paying for PE and/or ROW Costs, if any.

PROJECT HISTORY: Program to RMS 2050 MTP and RMS 23-26 TIP in FY 2026

Total Project C	Cost Information:		Ţ	Authorized Funding by Category/Share								
Preliminary Engineeri	ing: \$5,360,329		ļ		Federal Share	State Share	Regional Share	Local Share	Lcl Contribution	Total Share		
Right Of Way:	\$0	Cost of	Cat 5	CMAQ	\$4,800,000	\$0	\$0	\$1,200,000	\$0	\$6,000,000		
Construction:	\$17,122,380	Approved	Cat 3LC	LCL	\$0	\$0	\$0	\$0	\$294.000	\$294,000		
Construction Enginee	ering: \$3,021,596	Phases:				· · · · · · · · · · · · · · · · · · ·		* -	* - /			
Contingencies:	\$0	\$6,294,000	Fur	d by Share	\$4,800,000	\$0	\$0	\$1,200,000	\$294,000	\$6,294,000		
Indirects:	\$319,404											
Bond Financing:	\$0											

### PROJECT AMENDMENT HISTORY

Potential Change Order:

**Total Project Cost:** 

STIP Rev Date(s) Note/Amend Date Note/Amendment FY(s)

\$25,823,709

\$0

07/2022 2026 03/2022 Program to RMS 2050 MTP and RMS 23-26 TIP in FY 2026

'STIP Rev Date(s)' also refers to TIP Administrative Amendment (Local Revision) Date

THURSDAY, AUGUST 25, 2022 12:52:46 PM

#### EL PASO MPO 2023-2026 STATE TRANSPORTATION IMPROVEMENT PROGRAM

### EL PASO DISTRICT PROJECTS





				112020 (OL11 A01	•)		
DISTRICT	COUNTY	CSJ	HWY	PHASE	CITY	PROJECT SPONSOR	YOE COST
TX DIST. 24	EP	0374-02-100	US 62	С	El Paso	TxDOT	\$146,583,776
TIP PROJECT NA	ME: US 62/18	0 (Montana Ave.) Exp	ressway & Frontage Ro	oads, Phase II	REVISION I	DATE: 07/2022	
INVITO EDOM	01-1-10	D.			MDO DDO I	ECT ID: E407B CAB	

LIMITS FROM: Global Reach Dr.

LIMITS TO: Zaragoza Rd. (FM 659)

MTP REFERENCE: F407B-CAP

TIP DESCRIPTION: US 62/180 (Montana Ave.) Expressway & Frontage Roads, Phase II-Construct 6 lane expy. FUNDING CATEGORY: CAT 2 TMA, CAT 4U and build 2 lane FRs from Tierra Este Rd. to Zaragoza Rd. Reconst. 6 lane main lanes

from Global Reach to Lee Trevino. Reconst. FR from Global Reach to Tierra Este.

REMARKS: Please refer to RMS 2050 MTP Project List for full project description

\*Project Sponsor paying for PE and/or ROW Costs, if any. PROJECT HISTORY: Program to RMS 2050 MTP and RMS 23-26 TIP in FY 2026 **Total Project Cost Information:** Authorized Funding by Category/Share Preliminary Engineering: \$7,182,458 Federal Share State Share Regional Share Local Share Total Share Lcl Contribution Right Of Way: \$4,092,000 Cost of \$118,195,000 Cat 2M TMA \$94,556,000 \$23,639,000 \$0 \$0 \$0 Approved Construction: \$146,583,776 Cat 4 Urban \$5,677,755 \$0 \$0 \$0 \$28,388,776 \$22,711,021 Phases: Construction Engineering: \$6,413,620 Connecti vitv Contingencies: \$5,111,696 \$146,583,776 Indirects: Fund by Share \$117,267,021 \$3,131,228 \$29,316,755 \$0 \$0 \$146,583,776 Bond Financing: \$0 Potential Change Order: \$1,277,923 **Total Project Cost:** \$173,792,701 PROJECT AMENDMENT HISTORY

STIP Rev Date(s) FY(s) Note/Amend Date Note/Amendment

07/2022 2026 03/2022 Program to RMS 2050 MTP and RMS 23-26 TIP in FY 2026

'STIP Rev Date(s)' also refers to TIP Administrative Amendment (Local Revision) Date



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# FHWA TO FTA FUNDS TRANSFER PROJECTS<sup>2</sup>

<sup>&</sup>lt;sup>2</sup> Congestion Mitigation and Air Quality (CMAQ) Analyses can be found in Appendix A provided upon request and/or attached into the electronic version of this document.

THURSDAY, DECEMBER 30, 2021 3:08:55 PM

2023

07/2022

03/2022 'STIP Rev Date(s)' also refers to TIP Administrative Amendment (Local Revision) Date

### EL PASO MPO 2023-2026 STATE TRANSPORTATION IMPROVEMENT PROGRAM

### EL PASO DISTRICT PROJECTS





					г	2023 (SEFT - A					
	COUNTY	CSJ			VY	PHASE	CIT		PROJECT SPOR		OE COST
TX DIST. 24	EP	0924-06-57		N.		Т	El Pa		Sun Metro	\$	1,917,592
TIP PROJECT NAM	/IE: Montar	na RTS 1st year	Operating As	sistan	ce			REVISION DATE:	07/2022		
LIMITS FROM:		wn terminal - Sa						MPO PROJECT ID			
LIMITS TO:		st Terminal - RC	•					MTP REFERENCE			
TIP DESCRIPTION:		,		sistance: 1st year of Montana RTS operations				FUNDING CATEGO			
REMARKS:	Progra	n in RMS 2050 l	MTP and RMS	23-26	TIP in FY 2023 -	- EXEMPT		VOC (Kg/Day): 5.37		ay): 110.234	
								NOX (Kg/Day): 8.31	13 PM 10 (Kg	g/Day): 2.522	
						PROJECT HISTO					
					<u> </u>	Admin Amend to r		2022 to FY 2023 - Ex			
Total Project		mation:				Fadaral Obara		d Funding by Cate		Lal Cantallantian	Tatal Chana
Preliminary Enginee Right Of Way:	ering: \$0 \$0		Coat of	Cat	- 00	Federal Share		Regional Share	Local Share	Lcl Contribution	Total Share
Construction:	• • •	17 502	Cost of Approved		5 CMAQ	\$1,534,074	\$0	\$0	\$383,518	\$0	\$1,917,592
	Construction: \$1,917,592 Construction Engineering: \$0		Phases:			\$0	\$0	\$0	\$0	\$0	\$0
	\$0 \$0		¢4 047 E00	-	Fund by Share	\$1,534,074	\$0	\$0	\$383,518	\$0	\$1,917,592
Contingencies:	\$0 \$0		\$1,917,592	•							
Bond Financing:	\$0 \$0										
Potential Change O											
Total Project Cost:		17,592									
Total Project Cost.											
PROJECT AMEND	MENT HIS	ΓORY									
STIP Rev Date(s	s) FY(s)	Note/Amend	Date Note/Am	endm	ent						
07/2018	2021	05/2018	Program	D204	5 MTP, D19-22	TIP, 19-22 STIP,	in FY 2021.				
11/2019	2021	10/2019				3 TIP, 19-22 STII Operating Assita		ject name and descr	ription from Mont	ana RTS 2nd Year C	perating
5/2020	2022	04/2020	Amend t	he D20	045 MTP, D19-2	3 TIP, 19-22 STI	toreprogram f	rom FY 2021 to FY	2022 - Exempt		
07/2020	2022	05/2020	Program	Amen	ded D2045 MTF	P, D21-24 TIP, 21	-24 STIP, in FY	' 2022. Exempt			
01/2022	2023	10/2021	Admin A	mend	to move from FY	2022 to FY 2023	3 - Exempt				

Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2023 - EXEMPT

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07/2022

2024

03/2022 'STIP Rev Date(s)' also refers to TIP Administrative Amendment (Local Revision) Date

### EL PASO MPO 2023-2026 STATE TRANSPORTATION IMPROVEMENT PROGRAM

#### EL PASO DISTRICT PROJECTS

#### FY 2024 (SEPT - AUG)



						FY	2024 (SEPT - A	UG)			ET TOSO MESTOPOLITATI FILE	and a dumentan	
	COUNTY	CSJ			WY		PHASE	CIT		PROJECT SPON		OE COST	
TX DIST. 24	EP	0924-06-57	75	N	I/A		Т	El Pa	ISO	Sun Metro	;	\$1,300,000	
TIP PROJECT NAMI	E: Montar	a RTS 2nd year	r Operating As	ssista	nce				REVISION DATE:	07/2022			
LIMITS FROM:	Downto	wn terminal - Sa	ınta Fe						MPO PROJECT ID	: T097X			
LIMITS TO:		t Terminal - RC	J						MTP REFERENCE	T097X			
TIP DESCRIPTION:	Montan	a RTS 2nd year	Operating Ass	istanc	e: 2nd y	ear of Mo	ntana RTS opera	ations	FUNDING CATEGO	EGORY: CAT 5 CMAQ,			
REMARKS:	Prograr	n in RMS 2050 N	MTP and RMS	23-26	TIP in F	Y 2024 -	EXEMPT		VOC (Kg/Day): 5.19	01 CO (Kg/D	ay): 108.402		
									NOX (Kg/Day): 7.71	9 PM 10 (Kg	g/Day): 2.588		
						Р	ROJECT HISTO	RY:					
						įΑ	dmin Amend to n	nove from FY 2	2023 to FY 2024 - Ex	kempt			
Total Project (		mation:		!					d Funding by Cate				
Preliminary Engineer				ļ			Federal Share	State Share	Regional Share	Local Share	Lcl Contribution	Total Share	
Right Of Way:	\$0		Cost of	Cat	5	CMAQ	\$1,040,000	\$0	\$0	\$260,000	\$0	\$1,300,000	
Construction:		00,000	Approved Phases:				\$0	\$0	\$0	\$0	\$0	\$0	
Construction Enginee				ļ	Fund I	by Share	\$1,040,000	\$0	\$0	\$260,000	\$0	\$1,300,000	
Contingencies:	\$0		\$1,300,000	!	· unu	oy onaro	ψ1,0-10,000	ų.	Ų.	<b>\$200,000</b>	40	<b>\$1,000,000</b>	
Indirects:	\$0												
Bond Financing:	\$0												
Potential Change Ord													
Total Project Cost:	\$1,3	00,000											
PROJECT AMENDA	MENT HIST	TORY											
STIP Rev Date(s)	) FY(s)	Note/Amend I	Date Note/Am	endm	nent								
07/2018	2022	05/2018	Program	D204	5 MTP,	D19-22 T	TIP, 19-22 STIP, i	n FY 2022.					
11/2019	2022	10/2019					3 TIP, 19-22 STIF Operating Assita		ect name and descr	ription from Mont	ana RTS 3rd Year C	Operating	
5/2020	2022	04/2020	Amend t	he D2	045 MT	P, D19-23	3 TIP, 19-22 STIF	reprogram fro	m FY 2022 to FY 20	023 - Exempt			
7/2020	2023	05/2020	Program	Ame	nded D2	045 MTP	, D21-24 TIP, 21	-24 STIP, in FY	2023. Exempt				
01/2022	2024	10/2021	Admin A	mend	to move	e from FY	2023 to FY 2024	- Exempt					

Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2024 - EXEMPT

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01/2022

07/2022

2025

2025

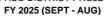
10/2021

03/2022

'STIP Rev Date(s)' also refers to TIP Administrative Amendment (Local Revision) Date

### EL PASO MPO 2023-2026 STATE TRANSPORTATION IMPROVEMENT PROGRAM

### EL PASO DISTRICT PROJECTS





DISTRICT COUNTY HWY **PHASE** CITY PROJECT SPONSOR YOE COST 0924-06-541 TX DIST. 24 ΕP N/A El Paso Sun Metro \$4,423,490 TIP PROJECT NAME: Montana RTS 3rd year service operating assistance **REVISION DATE:** 07/2022 LIMITS FROM: Five Points Terminal - 2830 Montana MPO PROJECT ID: T093X LIMITS TO: Far East Terminal - R.C. Poe - Edgemere MTP REFERENCE: T093X Montana RTS 3rd year service operating assistance: 3rd year of Montana BRT-RTS TIP DESCRIPTION: FUNDING CATEGORY: CAT 5 CMAQ, CAT 3 LC operations VOC (Kg/Day): 5.553 CO (Kg/Day): 100.325 REMARKS: Program in the amended D2045 MTP, D21-24 TIP, 21-24 STIP, in FY 2025 NOX (Kg/Day): 2.929 PM 10 (Kg/Day): 1.629 PROJECT HISTORY: Amend to move from FY 2024 to FY 2025 - Exempt Total Project Cost Information: Authorized Funding by Category/Share Preliminary Engineering: \$0 **Federal Share** State Share Regional Share **Local Share Lcl Contribution Total Share** Right Of Way: \$0 Cost of Cat 5 CMAQ \$1.600.000 \$0 \$0 \$400,000 \$0 \$2.000.000 Approved Construction: \$4,423,490 \$0 Cat 3LC Local \$0 \$0 \$0 \$2,423,490 \$2,423,490 Phases: Construction Engineering: \$0 Contribu Contingencies: \$0 \$4,423,490 tion Indirects: \$0 **Fund by Share** \$1,600,000 \$0 \$0 \$400,000 \$2,423,490 \$4,423,490 Bond Financing: \$0 Potential Change Order: \$0 **Total Project Cost:** \$4,423,490 Amend H2040 MTP, H17-20 TIP, 17-20 STIP to program in FY 2020 EXEMPT 02/2017 2020 10/2016 07/2018 2020 05/2018 Program D2045 MTP, D19-22 TIP, 19-22 STIP, in FY 2020. Amend the D2045 MTP, D19-23 TIP, 19-22 STIP to update project name and description from Montana RTS 1st Year Operating 11/2019 2029 10/2019 Assitance to Montana 3rd Year Operating Assitance and change from FY 2020 to FY 2029. 7/2020 2023 05/2020 Program in the amended D2045 MTP, D21-24 TIP, 21-24 STIP, in FY 2023

Amend to move from FY 2024 to FY 2025 - Exempt

Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2025 - EXEMPT



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# **NEW MEXICO HIGHWAY / TRANSIT PROJECTS<sup>3</sup>**

<sup>&</sup>lt;sup>3</sup> NM 2022-2025 STIP

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### EL PASO MPO 2022-2025 NEW MEXICO STATE TRANSPORTATION IMPROVEMENT PROGRAM EL PASO TX NMDOT DISTRICT 1 PROJECTS

TIP PAGE: 1

El Paso Metropolitan Planning Organization

### Fed FY 2025 (Oct - Sept)

DISTRICT	COUNTY	CSJ/CN	HWY	PHASE	CITY	PROJECT SPONSOR	YOE COST
NM DIST. 1	DA	E100380	00	C,E	Sunland Park, NM	NMDOT	\$1,325,481
TIP PROJECT NAI	ME: NM 273/A	Airport Road Signals			REVISION DAT	E: 06/2022	
LIMITS FROM:	NM 273 (	McNutt Road)/Airport I	Road Intersection		MPO PROJECT	TID: \$601X	
LIMITS TO:					MTP REFEREN	ICE: S601X	
TIP DESCRIPTION	l: Install traf	ffic signals at intersect	ion NM 273/Airport Road		FUNDING CAT	EGORY: TBD	
REMARKS:	Program	in RMS 2050 MTP and	RMS 23-26 TIP in FY 2025	- EXEMPT			

Total Project Cost	Information:		ļ				Authorized	<b>Funding by Categ</b>	ory/Share		
Preliminary Engineering:	\$125,481		į			Federal Share	State Share	Regional Share	Local Share	Lcl Contribution	Total Share
Right Of Way:	\$0	Cost of	Cat	NM State	NM	\$0	\$1,325,481	\$0	\$0	\$0	\$1,325,481
Construction:	\$1,000,000	Approved	i	Funds	State						
Construction Engineering	\$200,000	Phases:	İ		Fund						
Contingencies:	\$0	\$1,125,481	İ		S		\$1,325,481	\$0	\$0	\$0	\$1,325,481
Indirects:	\$0			Fund by	/ Share	\$0					
Bond Financing:	\$0										
Potential Change Order:	\$0										
Total Project Cost:	\$1,325,481										

### AMENDMENT HISTORY

History STIP Rev Date History FY History Date History Note/Amendment

06/2022 2025 03/2022 Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2025 - EXEMPT

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#### EL PASO MPO 2022-2025 NEW MEXICO STATE TRANSPORTATION IMPROVEMENT PROGRAM EL PASO TX NMDOT DISTRICT 1 PROJECTS

TIP PAGE: 2

El Paso Metropolitan Planning Organization

\$0

\$0

\$2,716,416

\$9,000,000

### Fed FY 2026 (Oct - Sept)

DISTRICT	COUNTY	CSJ/CN	HWY	PHASE	CITY	PRO	DJECT SPON	ISOR Y	OE COST
NM DIST. 1	DA	E100321	NM 213	С	Dona Ana Co	unty	NMDOT	\$	9,000,000
TIP PROJECT NA	ME: NM 213 V	Videning Project			RE\	REVISION DATE: 06/2022			
LIMITS FROM:	Intersection	on with NM 404 (MP 0)			MP	O PROJECT ID:	P621X-CA	<b>NP</b>	
LIMITS TO:	TX State I	Line (MP 3)	MTP REFERENCE: P621				P621X-CA	NP	
TIP DESCRIPTION	I: Widen NN	// 213 from 2 to 4 lanes			FUN	SI			
REMARKS:	Program i	n RMS 2050 MTP and RI	MS 23-26 TIP in FY 2	2026					
				PROJECT HISTO	 )RY:				
				Amend AD2045 N	ITP, D21-25 TIP, 22	2-25 STIP to move f	from FY 2023	to FY 2026	
Total Projec	t Cost Informa	ation:	ļ	Authorized Funding by Category/Share					
Preliminary Engine	ering: \$0		į	Federal Shar	e State Share F	Regional Share Lo	ocal Share	Lcl Contribution	Total Share
Right Of Way:	\$0	Cost of	Cat NM NHPP	NHP \$5,368,694	\$914,890	\$0	\$0	\$0	\$6,283,584

\$2,320,906

\$7,689,600

\$395,510

\$1,310,400

\$0

\$0

\$0

\$0

Potential Change Order:

**Total Project Cost:** 

Construction Engineering: \$0

Construction:

Contingencies:

Bond Financing:

Indirects:

### History STIP Rev Date History FY History Date History Note/Amendment

Approved

Phases:

\$9,000,000

Cat NM State SBSI

Fund by Share

Funds

\$9,000,000

\$9,000,000

\$0

\$0

\$0

\$0

08/2019	2023	07/2019	Program D2045 MTP, D19-22 TIP, 20-23 STIP, in FY 2023
07/2020	2023	05/2020	Program in to Amended D2045 MTP, D21-24, TIP, 20-23 STIP, in FY 2023
03/2022	2026	01/2022	Amend AD2045 MTP, D21-25 TIP, 22-25 STIP to move from FY 2023 to FY 2026
06/2022	2026	03/2022	Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2026



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# TRANSIT PROJECTS FTA & OTHER FUNDS

Transit projects are included in this TIP. Public notice of public participation activities and time established for public review of and comments on the TIP will satisfy the Program of Projects (POP) requirements.

\$13.985.847

\$623.535



# **FY 2023 TRANSIT PROJECT DESCRIPTIONS** EL PASO MPO TRANSPORTATION IMPROVEMENT PROGRAM (TIP) 2023-2026

District TX DIST 24 YOE = Year of Expenditure

**Funding Information (YOE) General Project Information** Sun Metro Sec. 5307 - Urbanized Formula >200K

Project Sponsor: Fed. Funding Category: MPO ID: Other FTA Section: **T3H** 

Project Name: ADA ParaTransit Federal (FTA) Funds: \$1,379,976 State (TXDOT) Funds: Apportionment Year: 2023 \$0

Project Phase т Other Funds: \$344 994 Brief Project Description: ADA ParaTransit: Provide ADA Para Transit Service **Fiscal Year Cost:** \$1,724,970

ROW: \$0 Construction: \$1,724,970 PF: \$0 Sec5309 ID:

**Total Project Cost:** \$1,724,970 Amend Date: 07/2022 TDC Amount Requested: \$0

Remarks/Amend Action: Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2023 - EXEMPT TDC Awarded Date & Amount: \$0

**AMENDMENT HISTORY** 

History STIP Rev Date History FY History Date History Note/Amendment

07/2020 2023 Program into amended D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2023-Exempt

Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2023 - EXEMPT 07/2022 2023

**General Project Information Funding Information (YOE)** 

Project Sponsor: Sun Metro Fed. Funding Category: Sec. 5307 - Urbanized Formula >200K MPO ID: Other FTA Section:

\$11,188,678 Project Name: Capital Maintenance Federal (FTA) Funds: Apportionment Year: 2023 State (TXDOT) Funds: \$0 Project Phase: т Other Funds: \$2,797,169

Brief Project Description: Capital Maintenance: Capital Maintenance \$13,985,847 ROW: \$0 Construction: PE: \$0

Sec5309 ID: **Total Project Cost:** 

\$13,985,847 Amend Date: 07/2022 TDC Amount Requested: \$0 Remarks/Amend Action: Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2023 - EXEMPT

> TDC Awarded Date & Amount: \$0

**Fiscal Year Cost:** 

Fiscal Year Cost:

AMENDMENT HISTORY

Project Phase:

History STIP Rev Date History FY History Date History Note/Amendment

07/2020 Program into amended D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2023-Exempt 2023 05/2020

07/2022 2023 03/2022 Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2023 - EXEMPT

**General Project Information** Funding Information (YOE) Project Sponsor: Project Amistad Fed. Funding Category: Sec. 5310 - Seniors & People w/Disabilities >200K MPO ID: Other FTA Section Project Name: FTA Section 5310 El Paso Urbanized Area Grant 2021 - Project Amistad Federal (FTA) Funds: \$623 535 dba Amistad State (TXDOT) Funds: \$0 Apportionment Year: 2021 Other Funds: \$0 C

Brief Project Description: FTA Section 5310 El Paso Urbanized Area Grant 2021 - Project Amistad dba Amistad: Funding for the purchase of four ADA-compliant vehicles

PE: \$0 ROW: \$0 Construction: \$623 535 and operational funding for 5310 program

Sec5309 ID:

**Total Project Cost:** \$623,535 Amend Date: 07/2022

TDC Amount Requested: \$56,470 Amend D2045 MTP, Amended D2045 MPT, D21-24 TIP and 21-24 Remarks/Amend Action:

STIP to update project description, project sponsor, project funding, TDC Awarded Date & Amount: \$0 requested TDCs and FY in FY 2023 -Exempt

**AMENDMENT HISTORY** 

History STIP Rev Date History FY History Date History Note/Amendment

Program D2045 MTP, D19-22 TIP, 19-22 STIP, in FY 2022. 05/2018 07/2018 2022 07/2020 2022 05/2020 Program into amended D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2022-Exempt Amend D2045 MTP, Amended D2045 MPT, D21-24 TIP and 21-24 STIP to update project description, project sponsor, project 11/2021 2023 06/2021 funding, requested TDCs and FY in FY 2023 -Exempt

07/2022 2023 03/2022 Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2023 - EXEMPT

\$1,470,875

\$200,000

\$200,000

Sec. 5339 - Bus & Bus Facilities >200K



Sun Metro

# **FY 2023 TRANSIT PROJECT DESCRIPTIONS** EL PASO MPO TRANSPORTATION IMPROVEMENT PROGRAM (TIP) 2023-2026

District: TX DIST 24 YOE = Year of Expenditure

Fed. Funding Category:

**Fiscal Year Cost:** 

**Fiscal Year Cost:** 

**General Project Information Funding Information (YOE)** 

MPO ID: Other FTA Section: T3I-10

Project Name FY 2023 FTA 5339 Funding for Bus & Bus Facilities Federal (FTA) Funds: \$1,176,700

State (TXDOT) Funds: Apportionment Year: 2023 \$0 Project Phase: N/A Other Funds: \$294 175

Brief Project Description: FY 2023 FTA 5339 Funding: For the purchase of buses and facility enhancements incl. equipment such a ADP hardware/software and

ROW: \$0 Construction: \$1,470,875 PE: \$0 security related needs, ticket vending machines and sales related

software. Capitalized maintenance incl rebuilds, bus shelters & amenities.

Sec5309 ID:

Project Sponsor:

**Total Project Cost:** \$1,470,875 Amend Date: 07/2022

TDC Amount Requested: \$0 Remarks/Amend Action: Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2023 - EXEMP

> TDC Awarded Date & Amount: \$0

**AMENDMENT HISTORY** 

History STIP Rev Date History FY History Date History Note/Amendment

07/2020 2023 05/2020 Program into amended D2045 MTP. D21-24 TIP and 21-24 STIP in FY 2023-Exempt

Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2023 - EXEMPT 07/2022 2023 03/2022

**General Project Information Funding Information (YOE)** Project Sponsor: Sun Metro Fed. Funding Category: Sec. 5307 - Urbanized Formula >200K MPO ID: Τ2Δ Other FTA Section: JARC Federal (FTA) Funds: \$160,000 Project Name: \$0

2023 State (TXDOT) Funds: Apportionment Year: Other Funds: \$40.000 Project Phase: N/A Brief Project Description: JARC: Short-range Planning

PE: \$0 ROW: \$0 Construction: \$200,000

Sec5309 ID: **Total Project Cost:** 

TDC Amount Requested: \$0 Remarks/Amend Action: Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2023 - EXEMPT

TDC Awarded Date & Amount: \$0

AMENDMENT HISTORY

Amend Date:

History STIP Rev Date History FY History Date History Note/Amendment

07/2022

07/2020 2023 05/2020 Program into amended D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2023-Exempt

07/2022 2023 03/2022 Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2023 - EXEMPT

**General Project Information Funding Information (YOE)** 

Project Sponsor: Sun Metro Fed. Funding Category: Sec. 5339 - Bus & Bus Facilities >200K MPO ID: Other FTA Section:

Federal (FTA) Funds: Project Name: Other Capital Program Items (5339)

\$88,200 Apportionment Year: 2023 State (TXDOT) Funds: \$0 Project Phase: N/A Other Funds: \$22,050 Brief Project Description: Other Capital Program Items (5339): Computer hardware/software Fiscal Year Cost: \$110,250

Construction: \$110,250 PE: \$0 ROW: \$0 Sec5309 ID:

**Total Project Cost:** \$110,250 Amend Date: 07/2022

TDC Amount Requested: \$0 Remarks/Amend Action: Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2023 - EXEMPT

> TDC Awarded Date & Amount: \$0

**AMENDMENT HISTORY** 

History STIP Rev Date History FY History Date History Note/Amendment

07/2020 2023 05/2020 Program Amended D2045 MTP, 21-24 TIP, 21-24 STIP, in FY 2023. 07/2022 2023 03/2022 Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2023 - EXEMPT



# FY 2023 TRANSIT PROJECT DESCRIPTIONS EL PASO MPO TRANSPORTATION IMPROVEMENT PROGRAM (TIP) 2023-2026

District: TX DIST. 24 YOE = Year of Expenditure

**General Project Information Funding Information (YOE)** Sun Metro Fed. Funding Category: Project Sponsor: Sec. 5307 - Urbanized Formula >200K MPO ID: Other FTA Section: Т3А Project Name: Planning Federal (FTA) Funds: \$849,133 2023 State (TXDOT) Funds: Apportionment Year: \$0 Project Phase: N/A Other Funds: \$212 283 Brief Project Description: Planning: Short-range Planning **Fiscal Year Cost:** \$1,061,416 ROW: \$0 Construction: \$1,061,416 PF: \$0 Sec5309 ID: **Total Project Cost:** \$1,061,416 Amend Date: 07/2022 TDC Amount Requested: \$0 Remarks/Amend Action: Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2023 - EXEMPT TDC Awarded Date & Amount: \$0

**AMENDMENT HISTORY** 

History STIP Rev Date History FY History Date History Note/Amendment

07/2020 2023 05/2020 Program into amended D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2023-Exempt

07/2022 2023 03/2022 Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2023 - EXEMPT

General Project Information Funding Information (YOE) Project Sponsor: Sun Metro Fed. Funding Category: Sec. 5307 - Urbanized Formula >200K MPO ID: Other FTA Section: Federal (FTA) Funds: Project Name: Security Equipment \$146,836 Apportionment Year: 2023 State (TXDOT) Funds: \$0 Project Phase: N/A Other Funds: \$36,709 Brief Project Description: Security Equipment: Security Program **Fiscal Year Cost:** \$183,545 Construction: \$183,545 PE: \$0 ROW: \$0 Sec5309 ID: **Total Project Cost:** \$183,545 Amend Date: 07/2022 TDC Amount Requested: Remarks/Amend Action: Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2023 - EXEMPT TDC Awarded Date & Amount: \$0

AMENDMENT HISTORY

History STIP Rev Date History FY History Date History Note/Amendment

07/2020 2023 05/2020 Program into amended D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2023-Exempt

07/2022 2023 03/2022 Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2023 - EXEMPT

**General Project Information** Funding Information (YOE) Project Sponsor: Sun Metro Fed. Funding Category: Sec. 5339 - Bus & Bus Facilities >200K MPO ID: Other FTA Section: Project Name: Support Vehicles/Bus Rehab (5339) Federal (FTA) Funds: \$447 551 2023 Apportionment Year: State (TXDOT) Funds: \$0 Project Phase: Other Funds: \$111,888 Brief Project Description: Support Vehicles/Bus Rehab (5339): Support Vehicles/Bus Rehab \$559,439 Fiscal Year Cost: ROW: \$0 Construction: \$559,439 PE: \$0 Sec5309 ID: **Total Project Cost:** \$559,439 Amend Date: TDC Amount Requested: Remarks/Amend Action: Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2023 - EXEMPT TDC Awarded Date & Amount: \$0

AMENDMENT HISTORY

History STIP Rev Date History FY History Date History Note/Amendment

07/2020 2023 05/2020 Program into amended D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2023-Exempt

07/2022 2023 03/2022 Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2023 - EXEMPT

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# FY 2023 TRANSIT PROJECT DESCRIPTIONS EL PASO MPO TRANSPORTATION IMPROVEMENT PROGRAM (TIP) 2023-2026

Tue Jan 18, 2022

Sec. 5339 - Bus & Bus Facilities >200K

District: TX DIST. 24 YOE = Year of Expenditure

General Project Information Funding Information (YOE)

Project Sponsor: Sun Metro Fed. Funding Category:
MPO ID: T3G Other FTA Section:

Project Name: Transit Enhancements (5339) Federal (FTA) Funds: \$800,000

 Apportionment Year:
 2023
 State (TXDOT) Funds:
 \$0

 Project Phase:
 N/A
 Other Funds:
 \$200,000

Brief Project Description: Transit Enhancements (5339): Transit Enhancements Fiscal Year Cost: \$1,000,000

Construction: \$1,000,000 PE: \$0 ROW: \$0
Sec5309 ID:

Amend Date: 07/2022 Total Project Cost: \$1,000,000

Remarks/Amend Action: Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2023 - EXEMPT TDC Amount Requested: \$0

TDC Awarded Date & Amount: \$0

AMENDMENT HISTORY

History STIP Rev Date History FY History Date History Note/Amendment

07/2020 2023 05/2020 Program into amended D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2023-Exempt

07/2022 2023 03/2022 Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2023 - EXEMPT



# **FY 2024 TRANSIT PROJECT DESCRIPTIONS** EL PASO MPO TRANSPORTATION IMPROVEMENT PROGRAM (TIP) 2023-2026

District: TX DIST. 24 YOE = Year of Expenditure

**Funding Information (YOE) General Project Information** Sec. 5307 - Urbanized Formula >200K

Fed. Funding Category: Project Sponsor: Sun Metro MPO ID: Other FTA Section: **T3H** 

Project Name: ADA ParaTransit Federal (FTA) Funds: \$1,393,776

2024 State (TXDOT) Funds: Apportionment Year: \$0 Project Phase т Other Funds: \$348 444 Brief Project Description: ADA ParaTransit: Provide ADA Para Transit Service **Fiscal Year Cost:** \$1,742,220

ROW: \$0 Construction: \$1,742,220 PF: \$0 Sec5309 ID:

**Total Project Cost:** \$1,742,220 Amend Date: 07/2022

TDC Amount Requested: \$0 Remarks/Amend Action: Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2024 - EXEMPT

> TDC Awarded Date & Amount: \$0

**AMENDMENT HISTORY** 

History STIP Rev Date History FY History Date History Note/Amendment

07/2020 2024 Program into amended D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2024-Exempt

07/2022 2024 Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2024 - EXEMPT

General Project Information Funding Information (YOE)

Project Sponsor: Sun Metro Fed. Funding Category: Sec. 5307 - Urbanized Formula >200K

MPO ID: Other FTA Section:

Project Name: Capital Maintenance Federal (FTA) Funds: \$11,462,164 Apportionment Year: 2024 State (TXDOT) Funds: \$0 Project Phase: т Other Funds: \$2,865,541

Brief Project Description: Capital Maintenance: Capital Maintenance **Fiscal Year Cost:** \$14,327,705

Construction: \$14,327,705 PE: \$0 ROW: \$0 Sec5309 ID:

\$14,327,705 **Total Project Cost:** Amend Date: 07/2022 TDC Amount Requested: \$0 Remarks/Amend Action: Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2024 - EXEMPT

> TDC Awarded Date & Amount: \$0

AMENDMENT HISTORY

History STIP Rev Date History FY History Date History Note/Amendment

07/2020 05/2020 Program into amended D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2024-Exempt 2024

Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2024 - EXEMPT 07/2022 2024 03/2022

**General Project Information** Funding Information (YOE)

Project Sponsor: Sun Metro Fed. Funding Category: Sec. 5339 - Bus & Bus Facilities >200K

MPO ID: T3I-11 Other FTA Section: Project Name: FY 2024 FTA 5339 Funding for Bus & Bus Facilities Federal (FTA) Funds:

\$1 206 118 State (TXDOT) Funds: Apportionment Year: 2024 \$0 Project Phase: Other Funds: \$301,529 \$1,507,647

Brief Project Description: FY 2024 FTA 5339 Funding: For the purchase of buses and facility Fiscal Year Cost:

enhancements incl. equipment such a ADP hardware/software and ROW: \$0 Construction: \$1.507.647 PE: \$0 security related needs, ticket vending machines and sales related

software. Capitalized maintenance incl rebuilds, bus shelters & amenities Sec5309 ID:

\$1,507,647 **Total Project Cost:** Amend Date: 07/2022

TDC Amount Requested: \$0 Remarks/Amend Action: Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2024 - EXEMPT

TDC Awarded Date & Amount: \$0

**AMENDMENT HISTORY** 

History STIP Rev Date History FY History Date History Note/Amendment

07/2020 2024 05/2020 Program into amended D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2024-Exempt

2024 03/2022 07/2022 Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2024 - EXEMPT



# FY 2024 TRANSIT PROJECT DESCRIPTIONS EL PASO MPO TRANSPORTATION IMPROVEMENT PROGRAM (TIP) 2023-2026

District: TX DIST. 24 YOE = Year of Expenditure

**Funding Information (YOE) General Project Information** Sun Metro Fed. Funding Category: Project Sponsor: Sec. 5339 - Bus & Bus Facilities >200K MPO ID: Other FTA Section: **T3B** Project Name: Other Capital Program Items (5339) Federal (FTA) Funds: \$92,610 State (TXDOT) Funds: Apportionment Year: 2024 \$0 Project Phase: N/A Other Funds: \$23 153 Brief Project Description: Other Capital Program Items (5339): Computer hardware/software **Fiscal Year Cost:** \$115,763 ROW: \$0 Construction: \$115,763 PF: \$0 Sec5309 ID: **Total Project Cost:** \$115.763 Amend Date: 07/2022 TDC Amount Requested: \$0 Remarks/Amend Action: Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2024 - EXEMPT TDC Awarded Date & Amount: \$0

**AMENDMENT HISTORY** 

History STIP Rev Date History FY History Date History Note/Amendment

07/2020 2024 05/2020 Program into amended D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2024-Exempt

07/2022 2024 03/2022 Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2024 - EXEMPT

General Project Information Funding Information (YOE) Project Sponsor: Sun Metro Fed. Funding Category: Sec. 5307 - Urbanized Formula >200K MPO ID: Other FTA Section: Т3А Project Name: Planning Federal (FTA) Funds: \$857 624 Apportionment Year: 2024 State (TXDOT) Funds: \$0 Project Phase: N/A Other Funds: \$214,406 Brief Project Description: Planning: Short-range Planning **Fiscal Year Cost:** \$1,072,030 Construction: \$1,072,030 PE: \$0 ROW: \$0 Sec5309 ID: **Total Project Cost:** \$1,072,030 Amend Date: 07/2022 TDC Amount Requested: \$0 Remarks/Amend Action: Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2024 - EXEMPT TDC Awarded Date & Amount: \$0

AMENDMENT HISTORY

History STIP Rev Date History FY History Date History Note/Amendment

07/2020 2024 05/2020 Program into amended D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2024-Exempt

07/2022 2024 03/2022 Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2024 - EXEMPT

**General Project Information** Funding Information (YOE) Project Sponsor: Sun Metro Fed. Funding Category: Sec. 5307 - Urbanized Formula >200K MPO ID: T3E Other FTA Section: Project Name: Security Equipment Federal (FTA) Funds: \$150 506 Apportionment Year: 2024 State (TXDOT) Funds: \$0 Project Phase: Other Funds: \$37,627 Brief Project Description: Security Equipment: Security Program Fiscal Year Cost: \$188,133 ROW: \$0 Construction: \$188,133 PE: \$0 Sec5309 ID: **Total Project Cost:** \$188,133 Amend Date: 07/2022 TDC Amount Requested: Remarks/Amend Action: Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2024 - EXEMPT TDC Awarded Date & Amount: \$0

AMENDMENT HISTORY

History STIP Rev Date History FY History Date History Note/Amendment

07/2020 2024 05/2020 Program into amended D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2024-Exempt

07/2022 2024 03/2022 Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2024 - EXEMPT

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# FY 2024 TRANSIT PROJECT DESCRIPTIONS EL PASO MPO TRANSPORTATION IMPROVEMENT PROGRAM (TIP) 2023-2026

Tue Jan 18, 2022

District: TX DIST. 24 YOE = Year of Expenditure

General Project Information

Funding Information (YOE)

Project Sponsor: Sun Metro

Fed. Funding Category: Sec. 5339 - Bus & Bus Facilities > 200K

MPO ID: T3F Other FTA Section:

Project Name: Support Vehicles/Bus Rehab (5339) Federal (FTA) Funds: \$452,026

Apportionment Year: 2024 State (TXDOT) Funds: \$0

Apportionment Year: 2024 State (TXDOT) Funds: \$0
Project Phase: N/A Other Funds: \$113,007
Brief Project Description: Support Vehicles/Bus Rehab (5339): Support Vehicles/Bus Rehab Fiscal Year Cost: \$565,033

Construction: \$565,033 PE: \$0 ROW: \$0

 Sec5309 ID:
 Total Project Cost:
 \$565,033

 Amend Date:
 07/2022
 \$565,033

Remarks/Amend Action: Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2024 - EXEMPT TDC Amount Requested: \$0

TDC Awarded Date & Amount: \$0

AMENDMENT HISTORY

History STIP Rev Date History FY History Date History Note/Amendment

07/2020 2024 05/2020 Program into amended D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2024-Exempt

07/2022 2024 03/2022 Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2024 - EXEMPT

Sec. 5307 - Urbanized Formula >200K



Project Sponsor:

# **FY 2025 TRANSIT PROJECT DESCRIPTIONS** EL PASO MPO TRANSPORTATION IMPROVEMENT PROGRAM (TIP) 2023-2026

District: TX DIST. 24 YOE = Year of Expenditure

**Funding Information (YOE) General Project Information** 

> Sun Metro Fed. Funding Category:

MPO ID: Other FTA Section: **T3H** 

Project Name: ADA ParaTransit Federal (FTA) Funds: \$1,407,713 2025 State (TXDOT) Funds: Apportionment Year: \$0

Project Phase: т Other Funds: \$351,929 Brief Project Description: ADA ParaTransit: Provide ADA Para Transit Service **Fiscal Year Cost:** \$1,759,642

ROW: \$0 Construction: \$1,759,642 PF: \$0 Sec5309 ID:

**Total Project Cost:** \$1,759,642 Amend Date: 07/2022

TDC Amount Requested: \$0 Remarks/Amend Action: Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2025 - EXEMPT

TDC Awarded Date & Amount: \$0

**AMENDMENT HISTORY** 

History STIP Rev Date History FY History Date History Note/Amendment

07/2022 2025 Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2025 - EXEMPT

**General Project Information Funding Information (YOE)** 

Fed. Funding Category: Project Sponsor: Sun Metro Sec. 5307 - Urbanized Formula >200K

MPO ID: T3C Other FTA Section:

Federal (FTA) Funds: Project Name: Capital Maintenance \$11,416,786

Apportionment Year: 2025 State (TXDOT) Funds: \$0 Other Funds: Project Phase: Т \$2 854 196

Brief Project Description: Capital Maintenance: Capital Maintenance Fiscal Year Cost: \$14,270,982 Construction: \$14,270,982 ROW: \$0 PE: \$0

Sec5309 ID:

**Total Project Cost:** \$14,270,982 07/2022 Amend Date:

TDC Amount Requested: \$0 Remarks/Amend Action: Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2025 - EXEMPT

> TDC Awarded Date & Amount: \$0

**AMENDMENT HISTORY** 

History STIP Rev Date History FY History Date History Note/Amendment

07/2022 2025 03/2022 Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2025 - EXEMPT

**General Project Information Funding Information (YOE)** 

Sun Metro Fed. Funding Category: Sec. 5339 - Bus & Bus Facilities >200K Project Sponsor:

MPO ID: Other FTA Section: T3I-12

Federal (FTA) Funds: Project Name: FY 2025 FTA 5339 Funding for Bus & Bus Facilities \$1,236,270 State (TXDOT) Funds: Apportionment Year: 2025 \$0 Other Funds: Project Phase: N/A \$309,068

Brief Project Description: FY 2025 FTA 5339 Funding: For the purchase of buses and facility **Fiscal Year Cost:** 

enhancements incl. equipment such a ADP hardware/software and Construction: \$1 545 338 PF: \$0 ROW: \$0

security related needs, ticket vending machines and sales related

software. Capitalized maintenance incl rebuilds, bus shelters & amenities.

Sec5309 ID: **Total Project Cost:** \$1,545,338 Amend Date: 07/2022

TDC Amount Requested: \$0 Remarks/Amend Action: Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2025 - EXEMPT

TDC Awarded Date & Amount: \$0

**AMENDMENT HISTORY** 

History STIP Rev Date History FY History Date History Note/Amendment

07/2022 2025 03/2022 Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2025 - EXEMPT \$1,545,338

\$200,000



# FY 2025 TRANSIT PROJECT DESCRIPTIONS EL PASO MPO TRANSPORTATION IMPROVEMENT PROGRAM (TIP) 2023-2026

District: TX DIST. 24 YOE = Year of Expenditure

General Project InformationProject Sponsor:Sun MetroFed. Funding Category:Sec. 5307 - Urbanized Formula >200KMPO ID:T2AOther FTA Section:

 MPO ID:
 12A
 Other F1A Section:

 Project Name:
 JARC
 Federal (FTA) Funds:
 \$160,000

 Apportionment Year:
 2025
 State (TXDOT) Funds:
 \$0

 Project Phase:
 N/A
 Other Funds:
 \$40,000

Brief Project Description: JARC: Short-range Planning Fiscal Year Cost: \$200,000

Sec5309 ID: Construction: \$200,000 PE: \$0 ROW: \$0

Amend Date: 07/2022

Remarks/Amend Action: Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2025 - EXEMPT

TDC Amount Requested: \$0

**Total Project Cost:** 

TDC Awarded Date & Amount: \$0

**AMENDMENT HISTORY** 

History STIP Rev Date History FY History Date History Note/Amendment

07/2022 2025 03/2022 Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2025 - EXEMPT

 General Project Information
 Funding Information (YOE)

 Project Sponsor:
 Sun Metro

 Fed. Funding Category:
 Sec. 5339 - Bus & Bus Facilities > 200K

 MPO ID:
 T3B
 Other FTA Section:

 Project Name:
 Other Capital Program Items (5339)
 Federal (FTA) Funds:
 \$97,241

 Apportionment Year:
 2025
 State (TXDOT) Funds:
 \$0

 Project Phase:
 T
 Other Funds:
 \$24,310

Brief Project Description: Other Capital Program Items (5339): Computer hardware/software

Fiscal Year Cost:

\$121,551

Sec5309 ID: Construction: \$121,551 PE: \$0 ROW: \$0

Amend Date: 07/2022 Total Project Cost: \$121,551

Remarks/Amend Action: Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2025 - EXEMPT TDC Amount Requested: \$0

TDC Awarded Date & Amount: \$0

**Funding Information (YOE)** 

AMENDMENT HISTORY

**General Project Information** 

History STIP Rev Date History FY History Date History Note/Amendment

07/2022 2025 03/2022 Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2025 - EXEMPT

Fed. Funding Category: Sun Metro Sec. 5307 - Urbanized Formula >200K Project Sponsor: MPO ID: Other FTA Section: Т3А Federal (FTA) Funds: Project Name: Planning \$866,201 State (TXDOT) Funds: Apportionment Year: 2025 \$0 Other Funds: Project Phase: N/A \$216.550 Brief Project Description: Planning: Short-range Planning **Fiscal Year Cost:** \$1,082,751 Construction: \$1,082,751 PF: \$0 ROW: \$0 Sec5309 ID: **Total Project Cost:** \$1.082.751 Amend Date:

Remarks/Amend Action: Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2025 - EXEMPT TDC Amount Requested: \$0

TDC Awarded Date & Amount: \$0

AMENDMENT HISTORY

History STIP Rev Date History FY History Date History Note/Amendment

07/2022 2025 03/2022 Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2025 - EXEMPT

Funding Information (YOE) **General Project Information** Project Sponsor: Sun Metro Fed. Funding Category: Sec. 5307 - Urbanized Formula >200K MPO ID: T3E Other FTA Section: Federal (FTA) Funds: Project Name: Security Equipment \$154.270 State (TXDOT) Funds: Apportionment Year: 2025 \$0 Other Funds: Project Phase: N/A \$38 567 Brief Project Description: Security Equipment: Security Program **Fiscal Year Cost:** \$192,837 ROW: \$0 Construction: \$192,837 PE: \$0

Sec5309 ID: Total Project Cost:

Amend Date: 07/2022

Remarks/Amend Action: Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2025 - EXEMPT

TDC Amount Requested: \$0

TDC Awarded Date & Amount:

TDC Awarded Date & Arributt.

AMENDMENT HISTORY

History STIP Rev Date History FY History Date History Note/Amendment

07/2022 2025 03/2022 Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2025 - EXEMPT

\$192,837

Tue Jan 18, 2022

\$0



# FY 2025 TRANSIT PROJECT DESCRIPTIONS EL PASO MPO TRANSPORTATION IMPROVEMENT PROGRAM (TIP) 2023-2026

District: TX DIST. 24 YOE = Year of Expenditure

General Project Information

Funding Information (YOE)

Project Sponsor: Sun Metro

Fed. Funding Category: Sec. 5339 - Bus & Bus Facilities > 200K

MPO ID: T3F Other FTA Section:

Project Name: Support Vehicles/Bus Rehab (5339) Federal (FTA) Funds: \$456,547

Apportionment Year: 2025 State (TXDOT) Funds: \$0

Project Phase: N/A Other Funds: \$114,137
Brief Project Description: Support Vehicles/Bus Rehab (5339): Support Vehicles/Bus Rehab Fiscal Year Cost: \$570,684

Construction: \$570,684 PE: \$0 ROW: \$0
Sec5309 ID:

Amend Date: 07/2022 Total Project Cost: \$570,684

Remarks/Amend Action: Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2025 - EXEMPT TDC Amount Requested: \$0

TDC Awarded Date & Amount: \$0

AMENDMENT HISTORY

History STIP Rev Date History FY History Date History Note/Amendment

07/2022 2025 03/2022 Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2025 - EXEMPT

General Project Information Funding Information (YOE)

Project Sponsor: Sun Metro Fed. Funding Category: Sec. 5339 - Bus & Bus Facilities >200K

MPO ID: T3G Other FTA Section:

Project Name: Transit Enhancements (5339) Federal (FTA) Funds: \$800,000

 Apportionment Year:
 2025
 State (TXDOT) Funds:
 \$0

 Project Phase:
 T
 Other Funds:
 \$200,000

Brief Project Description: Transit Enhancements (5339): Transit Enhancements Fiscal Year Cost: \$1,000,000

Construction: \$1,000,000 PE: \$0 ROW: \$0
Sec5309 ID:

Amend Date: 07/2022 Total Project Cost: \$1,000,000

TDC Awarded Date & Amount:

Remarks/Amend Action: Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2025 - EXEMPT TDC Amount Requested: \$0

AMENDMENT HISTORY

History STIP Rev Date History FY History Date History Note/Amendment

07/2022 2025 03/2022 Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2025 - EXEMPT

Sec. 5307 - Urbanized Formula >200K



# **FY 2026 TRANSIT PROJECT DESCRIPTIONS** EL PASO MPO TRANSPORTATION IMPROVEMENT PROGRAM (TIP) 2023-2026

TX DIST. 24 District YOE = Year of Expenditure

**General Project Information Funding Information (YOE)** 

Sun Metro Fed. Funding Category: Project Sponsor:

MPO ID: тзн Other FTA Section:

ADA ParaTransit Project Name: Federal (FTA) Funds: \$1,421,791 2026 State (TXDOT) Funds: Apportionment Year: \$0

Project Phase: Т Other Funds: \$355,447 Brief Project Description: ADA ParaTransit: Provide ADA Para Transit Service **Fiscal Year Cost:** \$1,777,238

ROW: \$0 Construction: \$1,777,238 PF: \$0 Sec5309 ID:

**Total Project Cost:** \$1,777,238 Amend Date: 07/2022 \$0

TDC Amount Requested: Remarks/Amend Action: Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2026 - EXEMPT TDC Awarded Date & Amount: \$0

**AMENDMENT HISTORY** 

History STIP Rev Date History FY History Date History Note/Amendment

07/2022 2026 03/2022 Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2026 - EXEMPT

**General Project Information Funding Information (YOE)** 

Fed. Funding Category: Project Sponsor: Sun Metro Sec. 5307 - Urbanized Formula >200K

MPO ID: T3C Other FTA Section:

Capital Maintenance Federal (FTA) Funds: Project Name: \$11.692.554

Apportionment Year: 2026 State (TXDOT) Funds: Other Funds: Project Phase: Т \$2 923 138

Brief Project Description: Capital Maintenance: Capital Maintenance **Fiscal Year Cost:** \$14,615,692 Construction: \$14,615,692 ROW: \$0

Sec5309 ID:

**Total Project Cost:** \$14,615,692 07/2022 Amend Date:

TDC Amount Requested: \$0 Remarks/Amend Action: Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2026 - EXEMPT

> TDC Awarded Date & Amount: \$0

PE: \$0

**AMENDMENT HISTORY** 

**AMENDMENT HISTORY** 

History STIP Rev Date History FY History Date History Note/Amendment

Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2026 - EXEMPT 07/2022 2026 03/2022

**General Project Information Funding Information (YOE)** 

Project Sponsor: Sun Metro Fed. Funding Category: Sec. 5339 - Bus & Bus Facilities >200K

MPO ID: Other FTA Section: T3D Federal (FTA) Funds:

Project Name: Curb Cuts ADA Improvements (5339) \$800,000 2026 State (TXDOT) Funds: Apportionment Year: \$0 Other Funds: Project Phase: \$200,000 Brief Project Description: Curb Cuts ADA Improvements (5339): Curb Cuts ADA Improvements **Fiscal Year Cost:** \$1,000,000

Construction: \$1,000,000 PF: \$0 ROW: \$0 Sec5309 ID:

**Total Project Cost:** \$1,000,000 Amend Date:

TDC Amount Requested: \$0 Remarks/Amend Action: Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2026 - EXEMPT

TDC Awarded Date & Amount: \$0

History STIP Rev Date History FY History Date History Note/Amendment

07/2022 2026 03/2022 Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2026 - EXEMPT

\$1,583,971

\$127,628

Sec. 5339 - Bus & Bus Facilities >200K



Sun Metro

Project Sponsor:

# **FY 2026 TRANSIT PROJECT DESCRIPTIONS** EL PASO MPO TRANSPORTATION IMPROVEMENT PROGRAM (TIP) 2023-2026

District: TX DIST. 24 YOE = Year of Expenditure

**Funding Information (YOE) General Project Information** 

MPO ID: Other FTA Section: T3I-13

Project Name: FY 2026 FTA 5339 Funding for Bus & Bus Facilities Federal (FTA) Funds: \$1,267,177

State (TXDOT) Funds: Apportionment Year: 2026 \$0 Project Phase: N/A Other Funds: \$316 794

Brief Project Description: FY 2026 FTA 5339 Funding: For the purchase of buses and facility **Fiscal Year Cost:** enhancements incl. equipment such a ADP hardware/software and ROW: \$0 Construction: \$1,583,971 PE: \$0

security related needs, ticket vending machines and sales related

Fed. Funding Category:

software. Capitalized maintenance incl rebuilds, bus shelters & amenities.

Sec5309 ID:

**Total Project Cost:** \$1,583,971 Amend Date: 07/2022

TDC Amount Requested: \$0 Remarks/Amend Action: Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2026 - EXEMPT

> TDC Awarded Date & Amount: \$0

**AMENDMENT HISTORY** 

History STIP Rev Date History FY History Date History Note/Amendment

07/2022 2026 03/2022 Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2026 - EXEMPT

**General Project Information Funding Information (YOE)** 

Project Sponsor: Sun Metro Fed. Funding Category: Sec. 5339 - Bus & Bus Facilities >200K MPO ID: Т3В Other FTA Section:

Project Name: Other Capital Program Items (5339) Federal (FTA) Funds: \$102,102 State (TXDOT) Funds: Apportionment Year: 2026 \$0

т Other Funds Project Phase: \$25,526

Brief Project Description: Other Capital Program Items (5339): Computer hardware/software **Fiscal Year Cost:** \$127,628

ROW: \$0 Construction: \$127,628 PE: \$0 Sec5309 ID: **Total Project Cost:** 

Amend Date: 07/2022 TDC Amount Requested: \$0

Remarks/Amend Action: Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2026 - EXEMPT TDC Awarded Date & Amount: \$0

AMENDMENT HISTORY

History STIP Rev Date History FY History Date History Note/Amendment

07/2022 2026 Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2026 - EXEMPT

**Funding Information (YOE) General Project Information** Fed. Funding Category: Project Sponsor: Sun Metro Sec. 5307 - Urbanized Formula >200K

MPO ID: Other FTA Section: T3A

Project Name: Planning Federal (FTA) Funds: \$874.862 Apportionment Year: 2026 State (TXDOT) Funds: \$0

Project Phase: Other Funds: N/A \$218,716 Brief Project Description: Planning: Short-range Planning Fiscal Year Cost: \$1,093,578

ROW: \$0 Construction: \$1,093,578 PF: \$0

Sec5309 ID: **Total Project Cost:** \$1,093,578 Amend Date: 07/2022

TDC Amount Requested: \$0 Remarks/Amend Action: Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2026 - EXEMPT

TDC Awarded Date & Amount: \$0

**AMENDMENT HISTORY** 

History STIP Rev Date History FY History Date History Note/Amendment

07/2022 2026 03/2022 Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2026 - EXEMPT

Tue Jan 18, 2022



District

# FY 2026 TRANSIT PROJECT DESCRIPTIONS EL PASO MPO TRANSPORTATION IMPROVEMENT PROGRAM (TIP) 2023-2026

TX DIST. 24 YOE = Year of Expenditure

**General Project Information Funding Information (YOE)** Sun Metro Fed. Funding Category: Project Sponsor: Sec. 5307 - Urbanized Formula >200K MPO ID: T3E Other FTA Section: Security Equipment Federal (FTA) Funds: Project Name: \$158,126 2026 State (TXDOT) Funds: Apportionment Year: \$0 Project Phase: N/A Other Funds: \$39.532 Brief Project Description: Security Equipment: Security Program **Fiscal Year Cost:** \$197,658 PE: \$0 ROW: \$0 Construction: \$197,658 Sec5309 ID: **Total Project Cost:** \$197,658 07/2022 Amend Date: TDC Amount Requested: \$0 Remarks/Amend Action: Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2026 - EXEMPT TDC Awarded Date & Amount: \$0

AMENDMENT HISTORY

**General Project Information** 

History STIP Rev Date History FY History Date History Note/Amendment

07/2022 2026 03/2022 Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2026 - EXEMPT

Project Sponsor: Sun Metro Fed. Funding Category: Sec. 5339 - Bus & Bus Facilities >200K MPO ID: Other FTA Section: Support Vehicles/Bus Rehab (5339) Federal (FTA) Funds: \$461,113 Project Name: Apportionment Year: 2026 State (TXDOT) Funds: \$0 N/A Other Funds: \$115,278 Project Phase: Brief Project Description: Support Vehicles/Bus Rehab (5339): Support Vehicles/Bus Rehab **Fiscal Year Cost:** \$576,391 Construction: \$576,391 PE: \$0 ROW: \$0 Sec5309 ID: **Total Project Cost:** \$576,391 Amend Date: 07/2022 TDC Amount Requested: \$0 Remarks/Amend Action: Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2026 - EXEMPT TDC Awarded Date & Amount: \$0

Funding Information (YOE)

AMENDMENT HISTORY

History STIP Rev Date History FY History Date History Note/Amendment

07/2022 2026 03/2022 Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2026 - EXEMPT



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# FTA FROM FHWA TRANSFER TRANSIT PROJECTS



# FY 2023 TRANSIT PROJECT DESCRIPTIONS EL PASO MPO TRANSPORTATION IMPROVEMENT PROGRAM (TIP) 2023-2026

Thu Dec 30, 2021

strict: TX DIST. 24 YOE = Year of Expenditure

 General Project Information

 Project Sponsor:
 Sun Metro
 Fed. Funding Category:
 Regionally Significant or Other (incl FHWA transfers)

 MPO ID:
 7092X
 Other FTA Section:
 FHWA CAT 5 - CMAQ Transfer to FTA

 Project Name:
 Montana RTS 1st year Operating Assistance
 Federal (FTA) Funds:
 \$1,534,074

 Apportionment Year:
 2023
 State (TXDOT) Funds:
 \$0

 Project Phase:
 T
 Other Funds:
 \$383,518

Brief Project Description: Montana RTS 1st year Operating Assistance: 1st year of Montana RTS

Fiscal Year Cost: \$1,917,592

Amend Date: 07/2022 Total Project Cost: \$1,917,592

Remarks/Amend Action: Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2023 - EXEMPT TDC Amount Requested: \$0

TDC Awarded Date & Amount: \$0

### AMENDMENT HISTORY

History STIP Rev Date	History FY	History Date	History	Note/Amendr	nent
			_		

07/2018	2021	05/2018	Program D2045 MTP, D19-22 TIP, 19-22 STIP, in FY 2021.
11/2019	2021	10/2019	Amend the D2045 MTP, D19-23 TIP, 19-22 STIP to update project name and description to 1st year.
07/2020	2022	05/2020	Program into amended D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2022-Exempt
01/2022	2023	10/2021	Admin Amend to move from FY 2022 to FY 2023 - Exempt
07/2022	2023	03/2022	Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2023 - EXEMPT



# FY 2024 TRANSIT PROJECT DESCRIPTIONS EL PASO MPO TRANSPORTATION IMPROVEMENT PROGRAM (TIP) 2023-2026

Thu Dec 30, 2021

strict: TX DIST. 24 YOE = Year of Expenditure

 General Project Information

 Project Sponsor:
 Sun Metro
 Fed. Funding Category:
 Regionally Significant or Other (incl FHWA transfers)

 MPO ID:
 7097X
 Other FTA Section:
 FHWA CAT 5 - CMAQ Transfer to FTA

 Project Name:
 Montana RTS 2nd year Operating Assistance
 Federal (FTA) Funds:
 \$1,040,000

Apportionment Year: 2024 State (TXDOT) Funds: \$0
Project Phase: T Other Funds: \$260,000

Brief Project Description: Montana RTS 2nd year Operating Assistance: 2nd year of Montana RTS

Fiscal Year Cost: \$1,300,000

Admin Amend to move from FY 2023 to FY 2024 - Exempt

Amend Date: 07/2022 Total Project Cost: \$1,300,000

Remarks/Amend Action: Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2024 - EXEMPT TDC Amount Requested: \$0

TDC Awarded Date & Amount: \$0

### AMENDMENT HISTORY

01/2022

2024

10/2021

History STIP Rev Date	History FY	History Date	History Note/Amendment
07/2018	2022	05/2018	Program D2045 MTP, D19-22 TIP, 19-22 STIP, in FY 2022.
11/2019	2022	10/2019	Amend the D2045 MTP, D19-23 TIP, 19-22 STIP to update project name and description to 2nd year.
07/2020	2023	05/2020	Program into amended D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2023-Exempt
07/2022	2024	03/2021	Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2024 - EXEMPT



# **FY 2025 TRANSIT PROJECT DESCRIPTIONS** EL PASO MPO TRANSPORTATION IMPROVEMENT PROGRAM (TIP) 2023-2026

Thu Dec 30, 2021

TX DIST. 24 YOE = Year of Expenditure

**General Project Information Funding Information (YOE)** Project Sponsor: Sun Metro Fed. Funding Category: Regionally Significant or Other (incl FHWA transfers) MPO ID: T093X Other FTA Section: FHWA CAT 5 - CMAQ Transfer to FTA Project Name: Federal (FTA) Funds: Montana RTS 3rd year service operating assistance \$1.600.000 State (TXDOT) Funds: Apportionment Year: 2025 \$0 Project Phase: Т Other Funds: \$2,823,490 Brief Project Description: Montana RTS 3rd year service operating assistance: 3rd year of **Fiscal Year Cost:** \$4,423,490 Montana BRT-RTS operations.

Construction: \$4,423,490 PE: \$0 ROW: \$0 Sec5309 ID:

**Total Project Cost:** \$4,423,490 07/2022 Amend Date:

TDC Amount Requested: \$0 Remarks/Amend Action: Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2025 - EXEMPT

TDC Awarded Date & Amount:

#### \$0 **AMENDMENT HISTORY** History STIP Rev Date History FY History Date History Note/Amendment 11/2016 2020 10/2016 Amend H2040 MTP, H17-20 TIP, 17-20 STIP to program in FY 2020 EXEMPT 07/2018 2020 05/2018 Program D2045 MTP, D19-22 TIP, 19-22 STIP, in FY 2020. Amend the D2045 MTP, D19-23 TIP, 19-22 STIP to deprogram in 2020, move in to FY 2029 and update project name and 11/2019 2020 10/2019 description to 3rd year. 07/2020 2024 05/2020 Program into amended D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2024-Exempt 01/2022 2025 10/2021 Amend to move from FY 2024 to FY 2025 - Exempt 07/2022 2025 03/2022 Program in RMS 2050 MTP and RMS 23-26 TIP in FY 2025 - EXEMPT



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# **FINANCIAL SECTION**

# EL PASO MPO - District 24

### FY 2023 - 2026 Transportation Improvement Program **JULY 2022 REVISION**

**Funding by Category** 

Friday, January 21, 2022 FY 2023 Total FY 2023 - 2026 FY 2024 FY 2025 FY 2026 Authorized Programmed Category Description Programmed Authorized Programmed Authorized Programmed Authorized Programmed Authorized \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 Preventive Maintenance & Rehabilitation 2M or 2U Urban Area (Non-TMA) Corridor Projects \$16,497,532 \$16.497.532 \$0 \$52.815.973 \$52.815.973 \$118.195.000 \$118.195.000 \$187.508.505 \$187.508.505 \$0 Non-Traditionally Funded Transportation 3 Project (Includes Prop 12v1, Prop 12v2, \$18,000,000 \$18,000,000 \$12,721,134 \$12,721,134 \$12,743,694 \$12,743,694 \$2,410,000 \$2,410,000 \$45,874,828 \$45,874,828 Prop 14, Lcl funds) 4 Statewide Connectivity Corridor Projects \$0 \$0 \$0 \$0 \$0 \$0 \$28,388,776 \$28,388,776 \$28,388,776 \$28,388,776 5 CMAQ \$7,832,781 \$9,717,981 \$7,991,903 \$9,638,016 \$8,058,637 \$9,746,984 \$6,000,000 \$9,843,936 \$29,883,321 \$38,946,917 5 Flex Map21 Flex \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 6 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 Structures 7 Metro Mobility & Rehab and CRRSAA \$43,749,189 \$50,833,355 \$12,500,000 \$22,817,538 \$18,000,000 \$23,075,579 \$20,869,979 \$23,305,106 \$95,119,168 \$120,031,578 8 Safety \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 9 Transportation Enhancements \$0 \$0 \$0 \$0 \$0 \$0 \$0 9 Flex \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 Supplemental Transportation Projects 10 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 (Includes:Earmark, GR, CBI, KTXB) 11 District Discretionary \$10,000,000 \$10,000,000 \$0 \$10,000,000 \$2.829.068 \$10,000,000 \$0 \$10,000,000 \$12,829,068 \$40,000,000 12 Strategic Priority \$193,500,000 \$193,500,000 \$0 \$16,820,000 \$16,820,000 \$0 \$210,320,000 \$210,320,000 Strategic Priority RECON 12C \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 (CMAQ) Strategic Priority RECON 128 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 (STP) Statewide Budget PE \$3,881,000 \$3,881,000 \$0 \$0 \$0 \$0 \$0 \$0 \$3,881,000 \$3,881,000 SB 102 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 Strategy 102 Budget

\$111,267,372

\$125,202,230

#### **Funding Participation Source**

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Source	FY 2023	FY 2024	FY 2025	FY 2026	Total
Federal	\$218,797,602	\$16,393,522	\$78,818,940	\$138,763,005	\$452,773,069
State	\$43,999,506	\$0	\$14,493,010	\$29,316,755	\$87,809,271
Local Match	\$8,782,394	\$4,098,381	\$5,211,728	\$5,373,995	\$23,466,498
CAT 3 - Local/State Contributions	\$0	\$12,721,134	\$3,361,082	\$2,410,000	\$18,492,216
CAT 3 - Texas Mobility Funds	\$18,000,000	\$0	\$0	\$0	\$18,000,000
Cat 3 - TRZ	\$0	\$0	\$9,382,612	\$0	\$9,382,612
Other - Strategy PE Budget	\$3,881,000	\$0	\$0	\$0	\$3,881,000
Total	\$293,460,502	\$33,213,037	\$111,267,372	\$175,863,755	\$613,804,666

\$302,429,868

\$33,213,037

\$55,176,688

\$293,460,502

Note 1: FY 2023 Category 7 STP MM Authorized amount includes FY 2022 Balance of \$27,826,026

\$192,142,818

FY 2022 CAT 7 STP	Metro Mobility & Rehab				
Authorized	\$30,279,172				
Programmed	\$2,453,146				
Balance	\$27,826,026				

\$175,863,756



\$613.804.666

\$674.951.604

#### Transit Financial Summary

#### El Paso MPO - TXDOT District 24

### FY 2023 - 2026 Transportation Improvement Program

#### All Figures in Year of Expenditure (YOE) Dollars

Tuesday, January 18, 2022

Transit Program		FY	2023		FY	2024		FY	2025	
	Transic Fogram		Match	Total	Federal	Match	Total	Federal	Match	Total
1	Sec. 5307 - Urbanized Formula >200K	\$13,724,623	\$3,431,155	\$17,155,778	\$13,864,070	\$3,466,018	\$17,330,088	\$14,004,970	\$3,501,242	\$17,506,212
2	Sec. 5307 - Urbanized Formula <200K	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
3	Sec. 5309 - Fixed Guideway Investment	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
4	Sec. 5337 - State of Good Repair	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5	Sec. 5339 - Bus & Bus Facilities >200K	\$2,512,451	\$628,113	\$3,140,564	\$2,550,754	\$637,689	\$3,188,443	\$2,590,058	\$647,515	\$3,237,573
6	Sec. 5310 - Seniors & People w/Disabilities >200K	\$692,817	\$0	\$692,817	\$0	\$0	\$0	\$0	\$0	\$0
7	Sec. 5316 - JARC >200K	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
8	Sec. 5317 - New Freedom >200K	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
9	Other FTA	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
10	Regionally Significant or Other (incl FHWA transfers)	\$1,534,074	\$383,518	\$1,917,592	\$1,040,000	\$260,000	\$1,300,000	\$1,600,000	\$2,823,490	\$4,423,490
	Total Funds		\$4,442,786	\$22,906,751	\$17,454,825	\$4,363,706	\$21,818,531	\$18,195,028	\$6,972,247	\$25,167,275
	Transportation Development Credits									
	Requested			\$56,470			\$0			\$0
	Awarded			\$0			\$0			\$0

### All Figures in Year of Expenditure (YOE) Dollars

Transit Program		FY 2026			TOTAL			
	Hallsit Flogram	Federal	Match	Total	Federal	State/Other	Total	
1	Sec. 5307 - Urbanized Formula >200K	\$14,147,333	\$3,536,833	\$17,684,166	\$55,740,996	\$13,935,248	\$69,676,244	
2	Sec. 5307 - Urbanized Formula <200K	\$0	\$0	\$0	\$0	\$0	\$0	
3	Sec. 5309 - Fixed Guideway Investment	\$0	\$0	\$0	\$0	\$0	\$0	
4	Sec. 5337 - State of Good Repair	\$0	\$0	\$0	\$0	\$0	\$0	
5	Sec. 5339 - Bus & Bus Facilities >200K	\$2,630,392	\$657,598	\$3,287,990	\$10,283,655	\$2,570,915	\$12,854,570	
6	Sec. 5310 - Seniors & People w/Disabilities >200K	\$0	\$0	\$0	\$692,817	\$0	\$692,817	
7	Sec. 5316 - JARC >200K	\$0	\$0	\$0	\$0	\$0	\$0	
8	Sec. 5317 - New Freedom >200K	\$0	\$0	\$0	\$0	\$0	\$0	
9	Other FTA	\$0	\$0	\$0	\$0	\$0	\$0	
10	Regionally Significant or Other (incl FHWA transfers)	\$0	\$0	\$0	\$4,174,074	\$3,467,008	\$7,641,082	
	Total Funds	\$16,777,725	\$4,194,431	\$20,972,156	\$70,891,543	\$19,973,170	\$90,864,713	
	Transportation Development Credits					<u>.</u>		
	Requested			\$0			\$56,470	
	Awarded			\$0			\$0	



#### EL PASO MPO - New Mexico District 1 & 2

## 2022-2025 NM State Transportation Improvement Program RMS 2023-2026 TIP

Funding by Category

Thursday, December 30, 2021

	FY	2023	FY	2024	FY	2025	FY	2026	Total FY 20	023 - 2026
Description	Programmed	Authorized	Programmed	Authorized	Programmed	Authorized	Programmed	Authorized	Programmed	Authorized
NHPP (National Highway Performance Program)	\$0	\$0	\$0	\$0	\$0	\$0	\$6,283,584	\$6,283,584	\$6,283,584	\$6,283,584
NM State Funds	\$0	\$0	\$0	\$0	\$1,325,481	\$1,325,481	\$2,716,416	\$2,716,416	\$4,041,897	\$4,041,897
Total	\$0	\$0	\$0	\$0	\$1,325,481	\$1,325,481	\$9,000,000	\$9,000,000	\$10,325,481	\$10,325,481

#### **Funding Participation Source**

Source	FY 2023	FY 2024	FY 2025	FY 2026	Total
Federal Participation	\$0	\$0	\$0	\$7,689,600	\$7,689,600
State Participation	\$0	\$0	\$1,325,481	\$1,310,400	\$2,635,881
Total	\$0	\$0	\$1,325,481	\$9,000,000	\$10,325,481



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# **ANALYSES SECTION**

The illustrations below show a summary of the Total Costs per Fiscal Year for Texas Highway FHWA/Local Funds, New Mexico Highway/Transit Funds, and Texas Transit FTA/Local Funds.

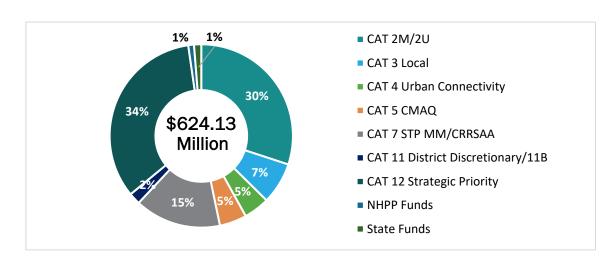
#### HIGHWAY FUNDS YEAR OF EXPENDITURE (YOE) BY FISCAL YEAR

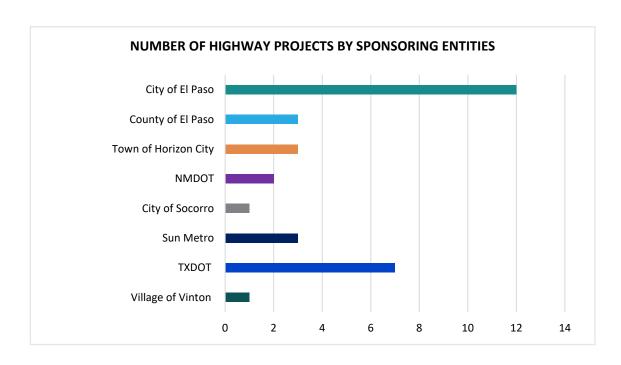


Fiscal Year	TX (YOE)	NM (YOE)	Total YOE
2023	\$ 293.46 M	-	\$ 293.46 M
2024	\$ 33.21 M	-	\$ 33.21 M
2025	\$ 111.27	\$ 1.33 M	\$ 112.59 M
2026	\$ 175.86 M	\$ 9.00 M	\$ 184.86 M
Total	\$ 613.80 M	\$ 10.33 M	\$ 624.13 M

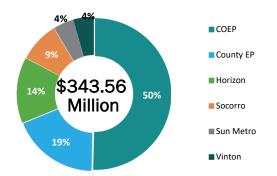
#### HIGHWAY FUNDS YEAR OF EXPENDITURE (YOE) BY FUNDING CATEGORY

Funding Category	Millions	Percentage of Funds
CAT 2M/2U	\$187.51 M	30 %
CAT 3 Local Contribution/TMF	\$45.87 M	7 %
CAT 4 Urban Connectivity	\$28.39 M	5 %
CAT 5 CMAQ	\$29.88 M	5 %
CAT 7 STP MM/CRRSAA	\$95.12 M	15 %
CAT 11 District Discretionary/11B	\$12.83 M	2 %
CAT 12 Strategic Priority	\$210.32 M	34 %
NHPP Funds	\$6.28 M	1 %
State Funds (Texas and New Mexico)	\$4.04 M	1 %
Total	\$ 624.13 M	100 %



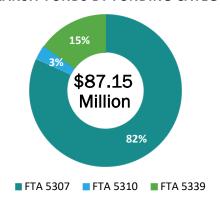


#### LOCAL GOVERNMENTS HIGHWAY YOE COST BY SPONSOR



Local Government	YOE in Millions	
COEP	\$ 88.05 M	
County EP	\$ 32.25 M	
Horizon	\$ 24.35 M	
Socorro	\$ 14.97 M	
Sun Metro	\$ 7.64 M	
Vinton	\$ 7.50 M	
Total	\$ 343.56 M	

#### TRANSIT FUNDS BY FUNDING CATEGORY



#### TRANSIT YOE COST BY FISCAL YEAR

Fiscal Year	Total YOE
2023	\$ 20.99 M
2024	\$ 21.17 M
2025	\$ 21.39 M
2026	\$ 21.62 M
Total	\$ 85.17 M

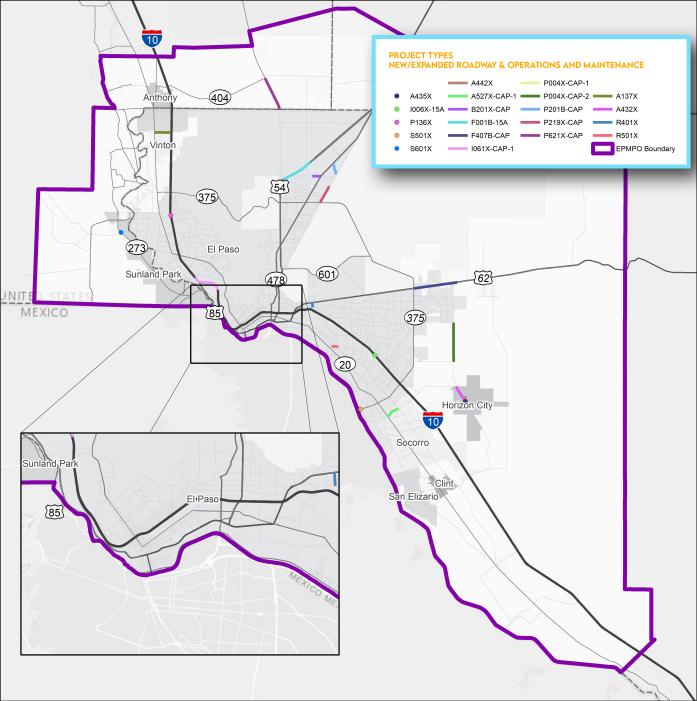


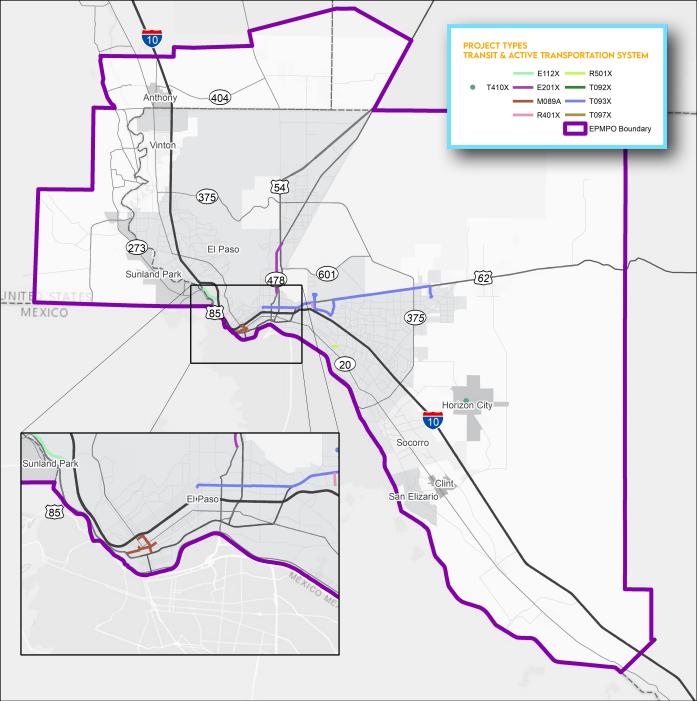
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# **MAP SECTION<sup>4</sup>**

<sup>&</sup>lt;sup>4</sup> Map may not contain all projects in this document, only map-able projects will be illustrated.







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# **MPO SELF-CERTIFICATION**



#### MPO SELF-CERTIFICATION

In accordance with 23 CFR Part 450.336 and 450.220 of the Fixing America's Surface Transportation Act (FAST Act), the Texas Department of Transportation, and the El Paso Metropolitan Planning Organization for the El Paso urbanized area(s) hereby certify that the transportation planning process is addressing the major issues in the metropolitan planning area and is being conducted in accordance with all applicable requirements of:

- 1. 23 U.S.C. 134, 49 U.S.C. 5303, and this subpart;
- 2. In nonattainment and maintenance areas, sections 174 and 176(c) and (d) of the Clean Air Act, as amended (42 U.S.C. 7504, 7506(c) and (d)) and 40 CFR part 93
- 3. Title VI of the Civil Rights Act of 1964, as amended (42 U.S.C. 2000d-1) and 49 CFR part 21;
- 4. <u>49 U.S.C. 5332</u>, prohibiting discrimination on the basis of race, color, creed, national origin, sex, or age in employment or business opportunity;
- 5. Section 1101(b) of the FAST Act ( <u>Pub. L. 114-357</u>) and <u>49 CFR part 26</u> regarding the involvement of disadvantaged business enterprises in DOT funded projects;
- 6. <u>23 CFR part 230</u>, regarding the implementation of an <u>equal employment opportunity program</u> on Federal and Federal-aid <u>highway</u> construction contracts;
- 7. The provisions of the Americans with Disabilities Act of 1990 ( 42 U.S.C. 12101et seq.) and 49 CFR parts 27, 37, and 38;
- 8. The Older Americans Act, as amended (<u>42 U.S.C. 6101</u>), prohibiting discrimination on the basis of age in programs or activities receiving Federal financial assistance;
- 9. Section 324 of title 23 U.S.C. regarding the prohibition of discrimination based on gender; and

10. Section 504 of the Rehabilitation Act of 1973 ( 29 U.S.C discrimination against individuals with disabilities.	Walter
District Texas Department of Transportation	Metropolitan Planning Organization Policy Board Chairperson
Tomas Trevino, P.E.	Walter L. Miller
District Engineer	Chairperson
3/25/22	03/25/2022
Date	Date



#### MPO SELF-CERTIFICATION FOR NON-ATTAINMENT AREAS CERTIFICATION STATEMENT

The following information provides a summary of policies, procedures, and planning activities of the El Paso Metropolitan Planning Organization (MPO) and its Transportation Policy Board set forth to meet the requirements of federal transportation and air quality planning regulations in carrying out the FY 2022 and FY 2023 Unified Planning Work Program for Regional Transportation Planning and biennial development of the Transportation Improvement Program.

Metropolitan Planning: 23 U.S.C. 134, 49 U.S.C 5303, and implementing regulations;

The EPMPO's planning process is based on using state-of-the-art procedures, encompassing accurate data and methodologies, applied in a professional and unbiased manner. This planning process is carried out through an open approach that includes all local, state and federal transportation and air quality related agencies and organizations, local elected officials, and the public in the decision-making process. The continued focus of the MPO planning process is on the use of innovative techniques, as well as facilitating communication and partnerships as key mechanisms for improving mobility and air quality.

This process is carried out through the implementation of the Unified Planning Work Program through Performance Based Planning and the development of a financial and fiscally constrained long-range multi-modal transportation plan for the region; the biennial development of the Transportation Improvement Program; the development and adoption of the Metropolitan Transportation Plan every four years; the ongoing implementation of the region's Congestion Management Process focusing on the Travel Demand Management (TDM), Transportation Systems Management (TSM), and Intelligent Transportation System (ITS) technology; working closely with transportation providers throughout the region to conduct major investment and corridor feasibility studies which serve to evaluate, refine, and select transportation options for implementation; and ensuring that policies, programs, and projects when implemented will result in improved air quality for the region through the air quality conformity process.

**Statewide Planning**: U.S.C. Title 23, Sec. 135, U.S.C. Title 49, Ch. 53, Secs 5307-5311 and 5323(I); and 23 CFR Part 450.220

EPMPO works closely with TXDOT-El Paso District Office, the TXDOT Transportation Planning and Programming Division, and the Texas Transportation Commission to support the planning, funding, and implementation of transportation improvements. Whenever called upon, planning assistance is provided to assist TXDOT in meeting Statewide Planning requirements. The MPO and the State share financial information to carry out the financial constraint requirements of the planning process.



Clean Air Act: Air Pollution Prevention and Control: In non-attainment and maintenance area, section 174 and 176 © and (d) of the Clean Air Act, as amended (42, U.S.C. 7504, 7506 (c) and (d)) and 40 CFR part 93;

It is the policy of the EPMPO and its Transportation Policy Board that the continuing, cooperative, and comprehensive transportation planning process carried out by the MPO shall be done in coordination with the transportation-air quality planning process carried out by the State of Texas. Furthermore, it is the policy of the EPMPO and its Transportation Policy Board to not adopt a Metropolitan Transportation Plan or a Transportation Improvement Program until each plan or program has been demonstrated to be in conformity with the State Implementation Plan for Air Quality, including the air quality conformity requirements as set forth in the Clean Air Act Amendments of 1990. Resources are allocated biennially as part of the Unified Planning Work Program to ensure the coordination of the EPMPO transportation and air quality planning activities, and support determination of the air quality conformity process of the Metropolitan Transportation Plan and the Transportation Improvement Program. The EPMPO is an active partner with state and federal agencies as a member of the Air Quality Conformity Consultation Process.

**Title VI of the Civil Rights Act of 1964,** as amended (42 U.S.C. 2000d-1) and 49 CRF part 21; The Older Americans Act, as amended (42 U.S.C. 6101), prohibiting discrimination on the bases of age in programs or activities receiving Federal financial assistance; and Section 324 of title 23 U.S.C. regarding the prohibition of discrimination based on gender;

The EPMPO is committed throughout the development of its plans and programs to ensure that no person on the grounds of age, gender, race, color, or national origin is excluded from participation in, denied the benefits of, or subjected to discrimination under any program receiving federal financial assistance. No plans, programs or policies developed or implemented by the EPMPO will have a disproportionately high adverse human health or environmental effect on minority and low-income populations. The EPMPO plans continue to work on improving the accessibility of employment to the identified protected populations. Further, many of the current MPO public meetings are held in minority and low-income communities in the region and are located near accessible public transit facilities. Funding is allocated as part of the Unified Planning Work Program for a Title VI Plan to maintain an analytical approach that produces procedures that meet Title VI requirements by ensuring that federally-funded transportation projects adequately consider effects on low-income and minority segments of the population.

**Disadvantaged Business Enterprises (DBE) in planning projects:** 49 U.S.C. 5332, prohibiting discrimination on the basis of race, color, creed, national origin, sex or age in employment business opportunity; and Section 1101 (b) of the SAFETEA-LU (Pub. L. 109-59) and 49 CFR part 26 regarding the involvement of disadvantaged business enterprises in USDOT funded projects; 23 CFR part 230, regarding the implementation of an equal employment opportunity program on Federal and Federal-aid highway construction contracts;

The EPMPO follows the City of El Paso's Disadvantaged Business Enterprise which in turn follows the TXDOT DBE Plan. Funding is allocated as part of the Unified Planning Work Program to maintain an analytical approach



that produces procedures that meet Environmental Justice requirements by ensuring that federally-funded transportation projects adequately consider effects on low-income and minority segments of the population.

Americans with Disabilities Act of 1990: The provision of the Americans with Disabilities Act of 1990 (42 U.S.C. 12101 et seq.) and 49 CFR parts 27, 37, and 38; and Section 504 of the Rehabilitation Act of 1973 (29 U.S.C. 794) and 49 CFR part 27 regarding discrimination against individuals with disabilities.

It is the policy of the EPMPO to ensure that all agency programs and services are accessible to people with disabilities and are in compliance with the applicable regulations as a condition of receiving Federal financial assistance from the Department of Transportation. The EPMPO will make reasonable accommodations to a qualified individual with a disability who attends on-site meetings, and meeting facilities meet this requirement. Every effort is made to ensure that meeting facilities off-site are ADA accessible. A notice is published in advance of all MPO public meetings that reasonable accommodations will be provided for meeting locations on and off-site with a phone number and contact persons listed to provide assistance if needed. As direct recipients of FTA Section 5310 (Enhanced Mobility for Seniors and Individuals with Disabilities Program) funding, the EPMPO staff is actively involved in various ADA-related initiatives which are being carried out by the sub-recipients, and the review of ADA compliance documents developed by the region's transit and paratransit agencies, all of which focus on ensuring that transportation programs and services across the region are accessible to those citizens with disabilities.

**Restrictions on influencing certain federal activities**: CFR 29, Part 20;

It is the policy of the EPMPO that no state or federal funds received by the agencies shall be paid to any person for the purpose of influencing the award of a federal contract, grant, or loan or the entering into of a cooperative agreement. No state or federal funds received by the agencies shall be used directly or indirectly to influence any member of Congress, any member of the State Legislature, or any local elected official to favor or oppose the adoption of any proposed legislation before any federal, state, or local legislative body.



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#### **ACRONYMS**

ADA Americans with Disabilities Act

ADT Average Daily Traffic

BACM Best Available Control Measures

CFR Code of Federal Regulations

CMAQ Congestion, Mitigation, & Air Quality

CMP Congestion Management Process

CO Carbon Monoxide

DBE Disadvantaged Business Enterprises

EPA U.S. Environmental Protection Agency

FAST Act Fixing America's Surface Transportation Act

FHWA Federal Highway Administration

FTA Federal Transit Administration

HOV High Occupancy Vehicle

ITS Intelligent Transportation System

IVHS Intelligent Vehicle Highway System

MAP-21 Moving Ahead for Progress in the 21st Century

MOVES Motor Vehicle Emission Simulator

MPO Metropolitan Planning Organization

MTP Metropolitan Transportation Plan

NAAQS National Ambient Air Quality Standards

NEAP Natural Events Action Plan

NM New Mexico

NMDOT New Mexico Department of Transportation

NMED New Mexico Environment Department

NOx Nitrogen Oxide



PM-10 Particulate Matter 10 Microns or Less

POE Port of Entry

PPP Public Participation Plan

PSP Project Selection Process

RACT Reasonably Available Control Technologies

ROW Right of Way

RTP Recreational Trails Program

SAFETEA-LU Safe, Accountable, Flexible, Efficient Transportation Equity Act –

A Legacy for Users

SIP State Implementation Plan

SOV Single Occupancy Vehicle

STIP Statewide Transportation Improvement Program

STP-MM Surface Transportation Program – Metro-Mobility

TAC Texas Administrative Code

TAP Transportation Alternatives Program

TASA Transportation Alternatives Set-Aside

TCEQ Texas Commission on Environmental Quality

TEA-21 Transportation Equity Act for the 21st Century

TIP Transportation Improvement Program

TMA Transportation Management Area

TPAC Transportation Project Advisory Committee

TPB Transportation Policy Board

TPWD Texas Parks and Wildlife Department

TRZ Transportation Reinvestment Zone

TSM Transportation System Management

TTI Texas Transportation Institute

TXDOT Texas Department of Transportation



UPWP Unified Planning Work Program

UTEP University of Texas at El Paso

UTP Unified Transportation Program

VMT Vehicles Miles Traveled

VOC Volatile Organic Compound

YOE Year of Expenditure



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**APPENDIX A: CMAQ ANALYSES** 

# Emissions Reduction Analysis for El Paso County Transit

EPC Transit Study Scenarios 3 and 6

# Regional Transit Start-up assistance for FY 21-23

March 2020



Ву



#### **Task Summary**

The Texas A&M Transportation Institute (TTI) El Paso office was tasked by El Paso County Transit to perform a mobile source emissions analysis for two potential service expansion scenarios in the El Paso nonattainment area. The transit agency is seeking funding from the Congestion Mitigation/Air Quality Improvement Program (CMAQ).

The analysis focuses on the air quality benefits of two service expansion scenarios identified and supported from a feasibility study on transit service in El Paso County.

#### **Individual Project Analysis**

The emissions analysis for the project is presented below. The strategy name is given along with a brief description of the project. Data sources and analysis assumptions are provided. The equation used from the *Texas Guide to Accepted Mobile Source Emission Reduction Strategies* (MOSERs Guide) is given for the strategy along with the variables of the equation and the equation itself. The results are then computed for the strategy equation.

It is recommended that the agency conduct a more detailed emissions study of the project as it develops further. The results presented below are valid for CMAQ program submission, but this analysis should not be used for conformity purposes.

#### EPC Transit Study Scenarios 3 and 6

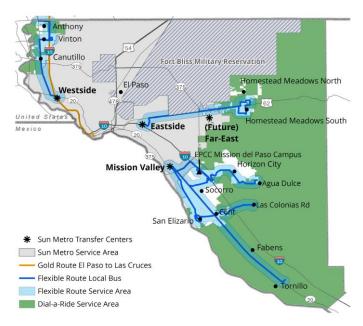
TTI was tasked by El Paso County Transit to conduct a feasibility study for potential service changes and expansion in its service area. The purpose of the study was to:

- Examine the feasibility of a seamless, countywide fixed-route transit system for all El Paso County
- Identify alternatives for transit within travel corridors throughout El Paso County
  - o Service design
  - Organizational structure
  - Funding
- Assess potential to improve transit service for access to jobs, education, medical, shopping, personal business

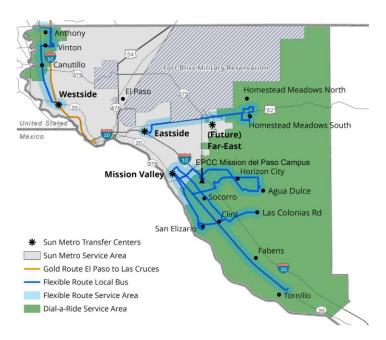
Stakeholders involved in the study chose two service expansion scenarios for further study, including the potential air quality benefits for the region. These are identified in the study as Scenario 3: Flexible-Route Local Bus and Rural Dial-a-Ride and Scenario 6: Increased Flexible-Route Local Bus and Rural/Urban Dial-a-Ride.

El Paso County Transit currently provides service on six county bus routes, the Gold Route intercity bus between Las Cruces, NM, and El Paso, TX, and the Vamonos Vanpool program. The six county bus routes operate along established routes with set schedules, and passengers can get on and off the bus by flagging the bus driver. The county bus routes link communities throughout El Paso County, and all routes connect to a Sun Metro transfer center.

Scenario 3: Flexible-Route Local Bus and Rural Dial-a-Ride provides service to almost all currently served areas. Some routes will have increased frequency and hours of service. All routes are designed to serve passengers traveling in either direction along the route and are scheduled to improve transfers between routes. Dial-a-ride serves rural areas outside the flexible-route service area. The Gold Route and Vamonos Vanpool program continue unchanged.



Scenario 6: Increased Flexible-Route Local Bus and Rural/Urban Dial-a-Ride provides service to almost all currently served areas. Some routes will have increased frequency and hours of service. All routes are designed to serve passengers traveling in either direction along the route and are scheduled to improve transfers between routes. Dial-a-Ride serves all areas of the county outside the flexible-route service area. The Gold Route and Vamonos Vanpool program continue unchanged.



#### **Data Sources**

The TTI team utilized several sources for the analysis: El Paso County *Transit Study Scenarios* section of the feasibility study that provided details of each scenario and current service, the El Paso County Transit Title VI Plan (April 2017), and internal route data.

The technical report 2017 On-Road Mobile Source Annual, Summer Weekday and Winter Workday Emissions Inventories: El Paso Area (TTI, August 2019) describes development of 2017 analysis year El Paso MOVES2014-based actual on-road inventories, which were the basis for these MOVES runs, with respect to MOVES modeling procedures and MOVES input data. MOVES modeling set-ups and input data combinations are described starting on Page 33 of the report, in the section "Estimation of Summer and Winter Weekday Emissions Factors." Tables 22 through 33 and surrounding text contain the details. The MOVES modeling part of the process and the local/default input data combinations as described (Table 24) was used, updated where appropriate for model version and for analysis year. The MOVES inputs for this analysis are consistent with the El Paso County 2017 AERR inventories analysis, with updates as needed (e.g., expected future year values for fuel properties). VMT hourly factors are consistent with the El Paso 2017 AERR inventories analyses; the vehicle type VMT mix estimate was developed consistent with the methodology as described in the El Paso 2017 AERR report, but for 2025 analysis year.

Transit passenger characteristics were derived from the American Public Transportation Association report A Profile of Public Transportation Passenger Demographics and Travel Characteristics Reported in On-Board Surveys published in May 2007 and the passenger characteristics information in the agency's Title VI plan.

#### **Analysis Methods**

TTI staff used the analysis method provided in the August 2008 version of the MOSERs Guide, equation 3.1 - System/Service Expansion. The detailed equation is provided below in Strategy Equation.

Stated in words, the equation measures the reduction in start emissions and running exhaust emissions from a change in mode during the operating period and subtracting any additional emissions from the transit vehicles. The benefit is derived through attracting single occupant passenger vehicle drivers to utilize transit as their mode of travel.

The analysis year used is 2025. For planning purposes, the emissions benefit of a static program will decline over time.

Assumptions in the MOVES2014a output for the project included:

- Output created for VOC, CO, NOx, and PM-10
- Light-duty passenger vehicles and light-duty passenger trucks (SUVs) vehicle types, gasoline and diesel-fueled, and transit buses are included according to a projected regional VMT fleet mix (Source Type ID 21, 31)
- Transit vehicle (source type 43) emission rates were included. Sourcetypeid 43 is composed of four MOVES regclass IDs: 41, 42, 46, and 47. Regclassid 41 rates output were selected as most representative of the County Transit vehicle rates.
- Running exhaust, running evaporative, brake wear, tire wear, and start emissions (Process ID 1, 2, 9, 10, 11, 12, 13, 15, 16)
- Considering the project area and the type of trips reduced through the strategy, primarily, freeway commuting, emissions on Road Type 4, urban restricted access, was used for the passenger vehicles. Road Type 5, urban unrestricted access, was used for the transit vehicles.
- Passenger vehicle replaced average speed during operating hours (peak and off-peak) is assumed 30 mph (speed bin 7).
- Average transit vehicle speed is assumed 25 mph (speed bin 6) based on data received from Sun Metro.
- The analysis period is 6:00 a.m. to 8:00 p.m. on a winter weekday for CO; the same period on a summer weekday for NOx, VOC, and PM-10.
- The vehicle trips reduced (VT<sub>R</sub>) and vehicle-miles travelled reduced (VMT<sub>R</sub>) were distributed proportionally across the 14 hours of model analysis and by vehicle type and fuel type in line with the vehicle fleet mix in the El Paso region.

TTI staff reviewed the project information to determine values for the individual variables in the MOSERs equation. The MOSERS Guide encourages planners to make conservative, justifiable assumptions about projects.

- Based on the available ridership data, factoring in 25% of the increased ridership will be previous riders, an average new, former single occupant vehicle daily ridership of 1,097 for Scenario 3 and 2,997 for Scenario 6 was assumed.
- Scenario 3 shows 20.5 additional hours of service; Scenario 6 shows 56 additional hours.
- Additional bus mileage for Scenario 3, based on acquisition of 3 new transit vehicles, is 193 miles per day; additional bus mileage for Scenario 6, based on acquisition of 6 new transit vehicles, is 1,025 miles per day
- An average trip length replaced of 18 miles was assumed based agency route maps. The trip lengths were distributed evenly in the reduced VMT.

The final estimated emission reductions are presented in kilograms per day (kg/day) in accordance to CMAQ project reporting requirements.

#### **Strategy Equation**

Note: Due to the extensiveness of the MOVES model output data and to help presentation of results, the individual start rates and emission rates per distance ( $\mathbf{TEF}_{AUTO}$  and  $\mathbf{EF}_{B}$ ) per vehicle type computed are not presented but are available for review, if needed.

#### 3.1 System/Service Expansion

Daily Emission Reduction (for each pollutant) = A + B - C - D

$$A = VT_R * TEF_{AUTO}$$

Reduction in auto start emissions from trips reduced

$$B = VMT_R * EF_B$$

Reduction in auto running exhaust emissions from VMT reductions

$$C = VT_{BUS} * TEF_{BUS}$$

Increase in emissions from additional bus starts

$$D = VMT_{BUS} * EF_{BUS}$$

Increase in emissions from additional bus running exhaust emissions

Where

$$VT_R = N_{TR} * F_{T,SOV}$$

Number of new transit riders multiplied by the percentage of riders shifting from single-occupant auto use

$$VMT_R = VT_R * TL_W$$

Number of vehicle trips reduced multiplied by the average auto trip length

Final unit of measure: grams/day

Source: Texas A&M Transportation Institute

**Variables:** EF<sub>B</sub>: Speed-based running exhaust emission

factor for affected roadway before implementation (NO<sub>x</sub>, VOC, or CO)

(grams/mile)

 $\mathbf{EF}_{BUS}$ : Speed-based running exhaust emission factor

for transit vehicle (NO<sub>x</sub>, VOC, or CO)

(grams/mile)

 $\mathbf{F}_{T,sov}$ : Percentage of people using a transit vehicle

that previously were vehicle drivers (decimal)

 $N_{TR}$ : New transit ridership

**TEF**<sub>AUTO</sub>: Auto trip-end emission factor ( $NO_x$ ,

VOC, or CO) (grams/trip)

**TEF**<sub>BUS</sub>: Bus (or other transit vehicle) trip-end

emission factor (NO<sub>x</sub>, VOC, or

CO) (grams/trip)

TL<sub>w</sub>: Average auto trip length (miles)

**VMT** by transit vehicle

**VMT**<sub>R</sub>: Reduction in daily automobile VMT

**VT**<sub>BUS</sub>: Daily vehicle trips by transit vehicle

**VT**<sub>R</sub>: Reduction in number of daily automobile

vehicle trips

#### **Analysis**

For presentation purposes, the MOVES calculation results and extensive results from the equation calculations are not presented in the results below.

#### Scenario 3

$$VT_R = (1,464 * 2) * 0.75 = 2,196 \text{ trips/day}$$

Number of transit riders multiplied by 2 multiplied by the percentage of riders shifting from single-occupant auto use

$$VMT_R = 2,196 * 18 = 39,528 \text{ vehicle-miles/day}$$

Number of vehicle trips reduced multiplied by the average auto trip length

#### Scenario 6

$$VT_R = (3,996 * 2) * 0.75 = 5,994 \text{ trips/day}$$

Number of transit riders multiplied by 2 multiplied by the percentage of riders shifting from single-occupant auto use

$$VMT_R = 5,994 * 18 = 107,892 \text{ vehicle-miles/day}$$

Number of vehicle trips reduced multiplied by the average auto trip length

#### **Summary of Results**

The emissions analysis results for the scenarios is shown in Table 1. There are significant emissions benefits for all four pollutants. The results indicate an estimated air quality benefit from both scenarios if implemented.

Table 1. EPC Transit Study Scenarios 3 and 6 Emission Reductions

Pollutant	Scenario 3 Reductions (kg/day)	Scenario 6 Reductions (kg/day)
CO	44.015	103.979
NOx	2.182	4.733
VOC	2.784	6.162
$PM_{10}$	1.041	2.300



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# Emission Reduction Analysis for City of El Paso Proposed CMAQ Project

Traffic Management Center Upgrade Phase 2 – Design and Construction

## March 2020

Prepared for



Ву



#### **Task Summary**

The Texas A&M Transportation Institute (TTI) was tasked by the City of El Paso to perform a mobile source emissions analysis for a proposed project in the El Paso metropolitan region. The city is seeking funding from the Congestion Mitigation/Air Quality Improvement Program (CMAQ) to begin the phased implementation of improvements to the City's Traffic Management Center.

#### **Individual Project Analysis**

The emissions analysis for the project is presented below. The project name is given along with a brief description of the project. Data sources and analysis assumptions are provided. The equation used from the *Texas Guide to Accepted Mobile Source Emission Reduction Strategies* (MOSERs Guide) is given for the strategy along with the variables of the equation and the equation itself. The results are then computed for the strategy.

It is recommended that the agency conduct a more detailed emissions study of the project as it develops further. As a result, this analysis should not be used for conformity purposes.

#### Traffic Management Center Upgrade – Phase 2 – Design and Construction

The City of El Paso seeks to implement phased updates to the City's Traffic Management Center (TMC). The second phase of these improvements consists of the following:

#### <u>Upgrades to Communications and Controllers</u>

- Ethernet/IP-based communications to all traffic elements (fiber optic/wireless/ethernet-over-copper)
- Infrastructure to support next generation transportation technologies.
  - Connected Vehicles
  - o Connected vehicle infrastructure
  - o Autonomous vehicle
  - o Internet of things

#### **Data Sources**

The City of El Paso provided items containing project information and data including project description and cost estimates. These resources provided the research team with a better understanding of the proposed project and potential emissions benefits.

Emission rates used in the analyses were obtained from the U.S. Environmental Protection Agency's MOVES2014a model. TTI staff created MOVES2014a output files using MOVES input parameters consistent with the latest TCEQ periodic emissions inventories, i.e., the 2017 AERR inventories for El Paso County documented in "Development of 2017 On-Road Mobile Source Annual, Summer Work Weekday, and Winter Work Weekday Emissions Inventories for Specified Areas: El Paso Area" (TTI, August 2019), with adjustments as needed for 2030 future analysis year. Local parameters include: meteorological, fuels, fuel fractions, age distributions, Inspection and Maintenance Program. The input files used to generate emission rates are consistent with those used for conformity analysis.

El Paso regional vehicle fleet mix fractions were derived from the TTI study *Production of Statewide* Non-Link-Based, On-Road Emissions Inventories with the MOVES Model for the Eight-Hour Ozone Standard Attainment Demonstration Modeling, conducted in August 2013.

Traffic data for the city roadways was garnered from TxDOT traffic count data for the El Paso District available online, along with El Paso MPO data. A growth rate was estimated and applied to the numbers.

#### **Analysis Methods**

TTI staff used the analysis method provided in the August 2008 version of the MOSERs Guide, Equation 7.4 – *Intelligent Transportation Systems (ITS)*. The equation estimates the sum of each ITS link's change in running exhaust emissions resulting from improved traffic flow due to the ITS improvements. In this case, a link is an individual intersection. As the projects are inter-connected with each other and, in some cases, are installed on the same roadways, it is more conducive to analyzed them as one large project then apportion the any emissions benefit to each component. The equation is provided below in Strategy Equation.

The equation is valid for CMAQ purposes but a more robust analysis that models the hundreds of individual intersections would provide a more accurate estimate of the emissions benefits derived from the improvements.

Assumptions in the MOVES2014a output for the project included:

- Output created for VOC, CO, NOx, and PM-10.
- The analysis year is 2030.
- Light-duty passenger vehicles and light-duty passenger trucks (SUVs), motorcycles, light commercial trucks, single unit short and long-haul trucks, and combination short and long-haul trucks, gasoline and diesel-fueled, are included according to a projected regional VMT fleet mix (Source Type ID 11, 21, 31, 32, 41, 42, 43, 51, 52, 53, 54, 61, 62).
- Running exhaust and evaporative emissions, break wear and tire wear emissions rates were calculated.
- Considering the project area and the type of emissions reduced through the strategy, emissions on Road Type 5, urban unrestricted access were analyzed.
- An average city network speed improvement from 30 mph to 35 mph is assumed (speed bin 7 to speed bin 8) as a result of implementation.
- The analysis period is from 6:00 a.m. to 6:00 p.m. on a winter weekday for CO; the same periods on a summer weekday for NOx, VOC, and PM-10. The effects of the signalization program can occur throughout the day, but the greatest impact on emissions will occur with any peak hour or daytime activity.
- The emissions reduced as a result of project were distributed across the 12 hours and by vehicle types and fuel types in line with the vehicle fleet mix in the El Paso region.

TTI staff reviewed the project information to determine values for the individual variables in the MOSERs equation. The MOSERS Guide encourages planners to make conservative, justifiable assumptions about projects.

The following assumptions were made for the project:

- A 2030 average daily VMT of 21,500,000 is estimated for the roadway segments affected by installation of the equipment. Factoring in the disparate AADT and ADT numbers throughout the City, along with El Paso MPO regional VMT numbers, the estimate seems reasonable enough to capture the benefit from the project. Future VMT is estimated based on the estimated current number plus application of a 1.105 percent annual growth factor.
- Assumes 80% of the daily traffic along the roadways occurs in the 12-hour daytime period under analysis. It is also assumed that the traffic will be affected by 80% of the intersections in the City. Thus, projected 2030 citywide daily VMT affected by the program is 14,077,700.
- Total project length of 600 miles is computed.
- Twenty-five (25) percent of total estimate of emissions reduction applied to Phase 2.

The emission reductions are presented in kilograms per day (kg/day) in accordance to CMAQ project reporting requirements.

#### **Strategy Equation**

Equation 7.4, Intelligent Transportation Systems (ITS)

Daily Emission Reduction = 
$$\sum_{i=1}^{n} [\mathbf{L}_{i} * \mathbf{ADT}_{i} * (\mathbf{EF}_{B} - \mathbf{EF}_{A})_{i}]$$

The sum of each ITS link's change in running exhaust emissions resulting from improved traffic flow.

Variables: ADT: Average daily traffic for each affected roadway

**EF**<sub>A</sub>: Speed-based running exhaust emission factor after

implementation (NO<sub>x</sub> and VOC) (grams/mile)

**EF**<sub>B</sub>: Speed-based running exhaust emission factor before

implementation (NO<sub>x</sub> and VOC) (grams/mile)

Length of each freeway affected by signalization

program (miles)

**N:** Number of affected corridors

For this analysis, the **L** and **ADT** are essentially the estimated VMT (14,077,770) affected by the project. The VMT was distributed through the 12-hour analysis period and multiplied by the result of the emission rate differences. This created a total estimated emissions reduction for the 2030 analysis year for the final, implemented project shown in the table below.

Table 1. Total Estimated Emissions Reduction from Multi-Phase TMC Upgrade Project (2020 Update)

Pollutant	Emissions Reduction (kg/day)
CO	1,360.54
NOx	178.15
VOC	70.04
$\mathrm{PM}_{10}$	203.03

Twenty-five percent of this total estimate was applied to Phase 2. Five percent was allocated to the previous Phase 1 design phase. The remaining 70 percent will be available for Phases 3-5 CMAQ applications.

# **Summary of Results**

The emissions analysis results for the Phase 2 design and construction of the City's signalization project are shown in Table 2. The analysis shows a significant emissions benefit in the El Paso region can be expected from this project.

Table 2. Estimated Emissions Benefits from Traffic Management Center Upgrade – Phase 2 – Design and Construction

Pollutant	Emissions Reduction (kg/day)
CO	340.135
NOx	44.538
VOC	17.510
$\mathrm{PM}_{10}$	50.758



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# Emission Reduction Analysis for City of El Paso Proposed CMAQ Project

# Border Highway West Hike and Bike Trail (Racetrack to Executive Center)

# March 2020

Prepared for



Ву



#### **Task Summary**

The Texas A&M Transportation Institute (TTI) was tasked by the City of El Paso to perform a mobile source emissions analysis for a proposed project in the El Paso metropolitan region. The city is seeking funding from the Congestion Mitigation/Air Quality Improvement Program (CMAQ) to help implement the project.

The project will construct 0.76 miles of hike and bike lane infrastructure improvements along Border Highway West.

#### **Individual Project Analysis**

The emissions analysis for the project is presented below. The project name is given along with a brief description of the project. Data sources and analysis assumptions are provided. The equation used from the *Texas Guide to Accepted Mobile Source Emission Reduction Strategies* (MOSERs Guide) is given for the strategy along with the variables of the equation and the equation itself. The results are then computed for the strategy.

It is recommended that the agency conduct a more detailed emissions study of the project as it develops further. The results presented below are valid for CMAQ applications, but more time and effort would increase the accuracy of the emissions benefits. As a result, this analysis should not be used for conformity purposes.

#### Border Highway West Hike and Bike Trail

The Border Highway West Hike and Bike Trail project will install 0.76 miles of pedestrian and bicycle lane improvements. These include an 11-foot asphalt pavement with irrigated landscaping. The limits of the improvements are from the racetrack interchange to the Executive Center Dr. interchange.

The project will serve the City of El Paso by increasing its regional infrastructure coupled with existing transit projects, educational centers, and commercial developments. Bicycle facilities support and provide connectivity to existing bicycle facilities Citywide with connection to mass transit centers and facilities, and also provide an alternative method of transportation.

The components of the project are consistent with the City of El Paso Bike Plan.

#### **Data Sources**

The City of El Paso provided the project description and scope. These resources provided the research team with a better understanding of the proposed project and potential emissions benefits.

The primary source for emission rates inputs and VMT factors (hourly factors and vehicle type VMT mix) for post-processing was the latest TCEQ periodic emissions inventories, i.e., the 2017 AERR inventories for El Paso County documented in *Development of 2017 On-Road Mobile Source Annual, Summer Work Weekday, and Winter Work Weekday Emissions Inventories for Specified Areas: El Paso Area* (TTI, August 2019). For VMT mix, the latest 2030 TxDOT El Paso District estimates were used.

TTI staff used American Community Survey data to compute a bicycle mode share for El Paso, along with a future growth rate for the mode in the region. Researchers reviewed Strava bicycle count data available online.

### **Analysis Methods**

TTI staff used the analysis method provided in the August 2008 version of the MOSERs Guide, Equation 11.1 – *Bicycle and Pedestrian Lanes or Paths*.

Stated in words, the average annual daily traffic (AADT) of the corridor is multiplied by the percentage of drivers shifting to bicycle mode, multiplied by the bike facility length, multiplied by the speed-based running exhaust emission factor for participants' trip before utilizing the bike lane.

The detailed equation is provided below in Strategy Equation.

The analysis year used is 2030. For planning purposes, the emissions benefit of a static program will decline over time. Without the increased use of the bike lanes over the project lifetime, any benefits accrued by the mode shift to bicycles may be negated by the increased emissions from potential higher traffic volumes in the corridor over time.

Assumptions in the MOVES2014a output for the project included:

- Output created for CO, VOC, NOx, and PM-10.
- Light-duty passenger vehicles and light-duty passenger trucks (SUVs), gasoline and dieselfueled, are included according to a projected regional VMT fleet mix (Source Type ID 21, 31)
- Running exhaust, evaporative emissions, brake wear, tire wear, and start emissions rates were calculated. (Process ID 1, 2, 11, 12, 13, 15)
- Considering the project area and the type of trips reduced through the strategy, emissions on Road Type 5, urban unrestricted access were analyzed.
- Overall average speed in the seven roadways is assumed to be 30 mph (Speed bin 7).
- The analysis period is from 7:00 a.m. to 7:00 p.m. on a winter weekday for CO; the same periods on a summer weekday for NOx, VOC, and PM-10. Use of the bicycle lanes can occur throughout the day, but the greatest impact on emissions will occur with any peak hour or daytime mode shift.
- The vehicle-miles traveled (VMT) reduced as a result of the mode shift to bicycle were distributed proportionally across the 12 hours and by vehicle types and fuel types in line with the vehicle fleet mix in the El Paso region.

TTI staff reviewed the project information to determine values for the individual variables in the MOSERs equation. The MOSERS Guide encourages planners to make conservative, justifiable assumptions about projects. TTI staff determined a valid percentage mode shift from automobile to bicycle by participants in El Paso region. The characteristics of this new facility may provide impetus for significant mode shift, but planners should use available data.

The following assumptions were made for the project:

- Light-duty passenger vehicle and light-duty passenger truck AADT in the project area of 13,932 is estimated. This figure is based on AADT and ADT traffic counts from TxDOT and the City of El Paso. AADT is estimated based on the data plus a professional estimate of traffic growth and an averaging of the counts. It assumes 80% of the daily traffic along the roadways occurs in the 12-hour daytime period under analysis. It assumes 86% of the traffic is passenger vehicles.
- The current percent bicycle mode share for the El Paso region is estimated to be 2.0% and can serve as an optimistic mode share increase for the new bike facilities.
- The 0.02 increase in mode share represents new cyclists (vehicle trips replaced). Based on current Strava data along W. Paisano Dr. (US 85), this should be considered very optimistic.
- Bike lane facility length of 0.76 miles is computed.

The emission reductions are presented in kilograms per day (kg/day) in accordance to CMAQ project reporting requirements.

### **Strategy Equation**

Equation 11.1, Bicycle and Pedestrian Lanes or Paths

Daily Emission Reduction = AADT \* PMS \* L \*  $EF_B$ 

The average annual daily traffic of the corridor multiplied by the percentage of drivers shifting to bike/pedestrian multiplied by the average bicycle trip length multiplied by the speed-based running exhaust emission factor for participants' trip before participating in the bike/pedestrian program.

Final unit of measure: grams/day Source: Capitol Area MPO (CAMPO)

**Variables:** AADT: Average annual daily traffic in corridor (vehicles/day)

**EF**<sub>B</sub>: Speed-based running exhaust and start emissions factor for participants' trip before participating in the bike/pedestrian program (NO<sub>x</sub>, VOC, or CO) (grams/mile)

**L:** Length of facility (miles)

**PMS:** Percentage mode shift from driving to bike/pedestrian (decimal)

#### **Analysis**

#### Results

Daily Emission Reduction = AADT \* PMS \* L \*  $EF_B$ 

**Note:** Due to the large amount of data generated by the MOVES model and the required off-model computations, for presentation purposes the individual running and start emissions rates are not provided in the results below.

For CO:

$$13,932 * 0.02 * 0.76 * EF_B = 2.964 \text{ kg/day}$$

For NOx:

$$13,932 * 0.02 * 0.76 * EF_B = 0.164 \text{ kg/day}$$

For VOC:

$$13,932 * 0.02 * 0.76 * EF_B = 0.221 \text{ kg/day}$$

For **PM-10**:

$$13,932 * 0.02 * 0.76 * EF_B = 0.221 \text{ kg/day}$$

#### **Summary of Results**

The overall emissions analysis results for the project are shown in Table 1. The estimated emissions benefits from the pedestrian and bicycle facilities are modest and dependent on increased use of

bicycles as a travel mode in the city and region, however an emissions benefit in the El Paso region can be expected from this project.

Table 1. Estimated Emissions Benefits from Border Highway West Hike and Bike Trail

Pollutant	Emissions Reduction (kg/day)
CO	2.964
NOx	0.164
VOC	0.221
$PM_{10}$	0.014



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# Emission Reduction Analysis for City of El Paso Proposed CMAQ Project

# Downtown Bicycle Improvements Phase I

# October 2019

Prepared for



Ву



#### **Task Summary**

The Texas A&M Transportation Institute (TTI) was tasked by the City of El Paso to perform a mobile source emissions analysis for a proposed project in the El Paso metropolitan region. The city is seeking funding from the Congestion Mitigation/Air Quality Improvement Program (CMAQ) to help implement the project.

The project will construct 3.5 miles of bike lane infrastructure improvements in the City downtown area.

# **Individual Project Analysis**

The emissions analysis for the project is presented below. The project name is given along with a brief description of the project. Data sources and analysis assumptions are provided. The equation used from the *Texas Guide to Accepted Mobile Source Emission Reduction Strategies* (MOSERs Guide) is given for the strategy along with the variables of the equation and the equation itself. The results are then computed for the strategy.

It is recommended that the agency conduct a more detailed emissions study of the project as it develops further. The results presented below are valid for CMAQ applications, but more time and effort would increase the accuracy of the emissions benefits. As a result, this analysis should not be used for conformity purposes.

#### Downtown Bicycle Improvements - Phase I

The Downtown Bicycle Improvements - Phase I project will install 3.5 miles of bicycle lane improvements along 10 roadways in the El Paso downtown region. The project will serve the City of El Paso by increasing its regional bike infrastructure coupled with existing transit projects, educational centers, and commercial developments. Bicycle facilities will support and provide connectivity to existing bicycle facilities citywide with connection to mass transit centers and facilities and provide an alternative method of transportation. The infrastructure will be installed within City right-of-way and no property acquisition is anticipated.

The project will construct bicycle facilities downtown to include: buffered bike lanes, conventional bike lanes, bicycle boulevards, shared lane markings, and protected bicycle lanes. The project will include road diets, associated signage, wayfinding, striping, and intersection treatments.

The limits of the improvements involve several roadways:

#### Limit from:

Campbell from Missouri; El Paso from Sheldon; Main from Oregon; Mills from Sheldon; Missouri from Santa Fe; Myrtle from Stanton; San Antonio from Anthony; Sheldon from Santa Fe; Virginia to Mills; Magoffin from San Antonio

#### Limit to:

Campbell to Paisano; El Paso to Overland; Main to Campbell; Mills to Virginia; Missouri to Campbell; Myrtle to Campbell; San Antonio to Virginia; Sheldon to El Paso; Virginia to San Antonio; Magoffin to Virginia

The components of the project are part of the August 2016 City of El Paso Bike Plan.

#### **Data Sources**

The City of El Paso provided the project description and scope, along with project information and data for the analysis. These resources provided the research team with a better understanding of the proposed project and potential emissions benefits.

The technical report 2017 On-Road Mobile Source Annual, Summer Weekday and Winter Workday Emissions Inventories: El Paso Area, TTI, August 2019 describes development of 2017 analysis year El Paso MOVES2014-based actual on-road inventories, which were the basis for these MOVES runs, with respect to MOVES modeling procedures and MOVES input data. MOVES modeling set-ups and input data combinations are described starting on Page 33 of the report, in the section "Estimation of Seasonal Weekday Emissions Rates". Tables 21 through 30 and surrounding text contain the details. The MOVES modeling part of the process and the local/default input data combinations as described (Table 24) were used, updated where appropriate for model version (MOVES2014a versus MOVES2014) and for analysis year (CMAQ years 2030 versus 2017).

The actual fuel formulation sulfur values were adjusted to reflect "expected" future year values in place of actual average sulfur level values (i.e., to maintain consistency with the Tier 3 gasoline standard implemented in January 2017 and for consistency with Ultra Low Sulfur Diesel). It is also

noteworthy that the age distributions and AVFT input data from the 2017 analysis were used, since these are based on the latest available TxDMV vehicle registrations data.

TTI staff used American Community Survey data to compute a bicycle mode share for El Paso, along with a future growth rate for the mode in the region.

#### **Analysis Methods**

TTI staff used the analysis method provided in the August 2008 version of the MOSERs Guide, Equation 11.1 – *Bicycle and Pedestrian Lanes or Paths*.

Stated in words, the average annual daily traffic (AADT) of the corridor is multiplied by the percentage of drivers shifting to bicycle mode, multiplied by the bike facility length, multiplied by the speed-based running exhaust emission factor for participants' trip before utilizing the bike lane.

The detailed equation is provided below in Strategy Equation.

The analysis year used is 2030. For planning purposes, the emissions benefit of a static program will decline over time. Without the increased use of the bike lanes over the project lifetime, any benefits accrued by the mode shift to bicycles may be negated by the increased emissions from potential higher traffic volumes in the corridor over time.

Assumptions in the MOVES2014a output for the project included:

- Output created for VOC, CO, NOx, and PM-10.
- Light-duty passenger vehicles and light-duty passenger trucks (SUVs), gasoline and dieselfueled, are included according to a projected regional VMT fleet mix (Source Type ID 21, 31)
- Running exhaust and evaporative emissions, start emissions, and brake wear and tire wear rates were calculated. (Process ID 1, 2, 9, 10, 11, 12, 13, 15, 16)
- Considering the project area and the type of trips reduced through the strategy, emissions on Road Type 5, urban unrestricted access were analyzed.
- Overall average speed in the seven roadways is assumed to be 30 mph (Speed bin 7).
- The analysis period is from 7:00 a.m. to 7:00 p.m. on a winter weekday for CO; the same periods on a summer weekday for NOx, VOC, and PM-10. Use of the bicycle lanes can occur throughout the day, but the greatest impact on emissions will occur with any peak hour or daytime mode shift.
- The vehicle-miles traveled (VMT) reduced as a result of the mode shift to bicycle were distributed proportionally across the 12 hours and by vehicle types and fuel types in line with the vehicle fleet mix in the El Paso region.

TTI staff reviewed the project information to determine values for the individual variables in the MOSERs equation. The MOSERS Guide encourages planners to make conservative, justifiable assumptions about projects. TTI staff determined a valid percentage mode shift from automobile to bicycle by participants in El Paso region. The characteristics of this new facilities may provide impetus for significant mode shift, but planners should use available data.

The following assumptions were made for the project:

- Light-duty passenger vehicle and light-duty passenger truck 2030 AADT of 51,228 is estimated. This figure is based on 2014 ADT traffic counts from the City of El Paso. AADT is estimated based on the data plus a professional estimate of traffic growth and an averaging of the counts. It assumes 80% of the daily traffic along the roadways occurs in the 12-hour daytime period under analysis. It assumes 86% of the traffic is passenger vehicles.
- The current percent bicycle mode share for the El Paso region is estimated to be 2.0% and can serve as an optimistic mode share increase for the new bike facilities.
- The 0.02 increase in mode share represents new cyclists (vehicle trips replaced).
- Bike lane facility length of 3.5 miles is computed.

The emission reductions are presented in kilograms per day (kg/day) in accordance to CMAQ project reporting requirements.

#### **Strategy Equation**

#### Equation 11.1, Bicycle and Pedestrian Lanes or Paths

#### Daily Emission Reduction = AADT \* PMS \* L \* $EF_B$

The average annual daily traffic of the corridor multiplied by the percentage of drivers shifting to bike/pedestrian multiplied by the average bicycle trip length multiplied by the speed-based running exhaust emission factor for participants' trip before participating in the bike/pedestrian program.

Final unit of measure: grams/day Source: Capitol Area MPO (CAMPO)

**Variables:** AADT: Average annual daily traffic in corridor (vehicles/day)

**EF**<sub>B</sub>: Speed-based running exhaust emission factor for participants' trip before participating in the bike/pedestrian program (NO<sub>x</sub>, VOC, or CO) (grams/mile)

**L:** Length of facility (miles)

**PMS:** Percentage mode shift from driving to bike/pedestrian (decimal)

#### **Analysis**

#### Results

#### Daily Emission Reduction = AADT \* PMS \* L \* $EF_B$

**Note:** Due to the large amount of data generated by the MOVES model and the required off-model computations, for presentation purposes the individual emissions rates are not provided in the results below.

For CO:

$$51,228 * 0.02 * 3.5 * EF_B = 3,778.188 \text{ grams/day}$$

Daily emission reduction is equal to 3.778 kg/day

For NOx:

$$51,228 * 0.02 * 3.5 * EF_B = 118.226 \text{ grams/day}$$

Daily emission reduction is equal to 0.118 kg/day

For VOC:

$$51,228 * 0.02 * 3.5 * EF_B = 203.159 \text{ grams/day}$$

Daily emission reduction is equal to 0.203 kg/day

For **PM-10**:

$$51,228 * 0.02 * 3.5 * EF_B = 196.361 \text{ grams/day}$$

Daily emission reduction is equal to 0.196 kg/day

#### **Summary of Results**

The overall emissions analysis results for the project are shown in Table 1. The estimated emissions benefits from the new bike lanes are significant and are dependent on increased use of bicycles as a travel mode in the city and region, therefore an emissions benefit in the El Paso region can be expected from this project.

Table 1. Estimated Emissions Benefits from Downtown Bicycle Improvements - Phase I

Pollutant	Emissions Reduction (kg/day)
CO	3.778
NOx	0.118
VOC	0.203
$PM_{10}$	0.196



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# Emission Reduction Analysis for City of El Paso Proposed CMAQ Project

Traffic Management Center Upgrade Phase 3 - Construction

# March 2020

Prepared for



Ву



### **Task Summary**

The Texas A&M Transportation Institute (TTI) was tasked by the City of El Paso to perform a mobile source emissions analysis for a proposed project in the El Paso metropolitan region. The city is seeking funding from the Congestion Mitigation/Air Quality Improvement Program (CMAQ) to begin the phased implementation of improvements to the City's Traffic Management Center.

#### **Individual Project Analysis**

The emissions analysis for the project is presented below. The project name is given along with a brief description of the project. Data sources and analysis assumptions are provided. The equation used from the *Texas Guide to Accepted Mobile Source Emission Reduction Strategies* (MOSERs Guide) is given for the strategy along with the variables of the equation and the equation itself. The results are then computed for the strategy.

It is recommended that the agency conduct a more detailed emissions study of the project as it develops further. As a result, this analysis should not be used for conformity purposes.

#### Traffic Management Center Upgrade - Phase 3 - Construction

The City of El Paso seeks to implement phased updates to the City's Traffic Management Center (TMC). The third phase of these improvements consists of the following:

#### Upgrades to Communications and Controllers

- Latest Advanced Traffic Management Systems (ATMS)
- Latest Advanced Transportation Controllers
- Adaptive Traffic Control Systems (ATCS)
- Multi-Modal Transportation Solutions, to include the following:
  - o Transit signal priority for mass transit vehicles
  - o Pre-emption for Emergency Vehicles
  - o Bicyclists
  - o Pedestrians
- Hybrid or high-resolution vehicle detection technologies (Radar, Video, microwave)
- Changeable Message Signs (CMS)

#### **Data Sources**

The City of El Paso provided items containing project information and data including project description and cost estimates. These resources provided the research team with a better understanding of the proposed project and potential emissions benefits.

Emission rates used in the analyses were obtained from the U.S. Environmental Protection Agency's MOVES2014a model. TTI staff created MOVES2014a output files using MOVES input parameters consistent with the latest TCEQ periodic emissions inventories, i.e., the 2017 AERR inventories for El Paso County documented in "Development of 2017 On-Road Mobile Source Annual, Summer Work Weekday, and Winter Work Weekday Emissions Inventories for Specified Areas: El Paso Area" (TTI, August 2019), with adjustments as needed for 2030 future analysis year. Local parameters include: meteorological, fuels, fuel fractions, age distributions, Inspection and Maintenance Program. The input files used to generate emission rates are consistent with those used for conformity analysis.

El Paso regional vehicle fleet mix fractions were derived from the TTI study *Production of Statewide Non-Link-Based, On-Road Emissions Inventories with the MOVES Model for the Eight-Hour Ozone Standard Attainment Demonstration Modeling,* conducted in August 2013.

Traffic data for the city roadways was garnered from TxDOT traffic count data for the El Paso District available online, along with El Paso MPO data. A growth rate was estimated and applied to the numbers.

#### **Analysis Methods**

TTI staff used the analysis method provided in the August 2008 version of the MOSERs Guide, Equation 7.4 – *Intelligent Transportation Systems (ITS)*. The equation estimates the sum of each ITS link's change in running exhaust emissions resulting from improved traffic flow due to the ITS

improvements. In this case, a link is an individual intersection. As the projects are inter-connected with each other and, in some cases, are installed on the same roadways, it is more conducive to analyzed them as one large project then apportion the any emissions benefit to each component. The equation is provided below in Strategy Equation.

The equation is valid for CMAQ purposes but a more robust analysis that models the hundreds of individual intersections would provide a more accurate estimate of the emissions benefits derived from the improvements.

Assumptions in the MOVES2014a output for the project included:

- Output created for VOC, CO, NOx, and PM-10.
- The analysis year is 2030.
- Light-duty passenger vehicles and light-duty passenger trucks (SUVs), motorcycles, light commercial trucks, single unit short and long-haul trucks, and combination short and long-haul trucks, gasoline and diesel-fueled, are included according to a projected regional VMT fleet mix (Source Type ID 11, 21, 31, 32, 41, 42, 43, 51, 52, 53, 54, 61, 62).
- Running exhaust and evaporative emissions, break wear and tire wear emissions rates were calculated.
- Considering the project area and the type of emissions reduced through the strategy, emissions on Road Type 5, urban unrestricted access were analyzed.
- An average city network speed improvement from 30 mph to 35 mph is assumed (speed bin 7 to speed bin 8) as a result of implementation.
- The analysis period is from 6:00 a.m. to 6:00 p.m. on a winter weekday for CO; the same periods on a summer weekday for NOx, VOC, and PM-10. The effects of the signalization program can occur throughout the day, but the greatest impact on emissions will occur with any peak hour or daytime activity.
- The emissions reduced as a result of project were distributed across the 12 hours and by vehicle types and fuel types in line with the vehicle fleet mix in the El Paso region.

TTI staff reviewed the project information to determine values for the individual variables in the MOSERs equation. The MOSERS Guide encourages planners to make conservative, justifiable assumptions about projects.

The following assumptions were made for the project:

- A 2030 average daily VMT of 21,500,000 is estimated for the roadway segments affected by installation of the equipment. Factoring in the disparate AADT and ADT numbers throughout the City, along with El Paso MPO regional VMT numbers, the estimate seems reasonable enough to capture the benefit from the project. Future VMT is estimated based on the estimated current number plus application of a 1.105 percent annual growth factor.
- Assumes 80% of the daily traffic along the roadways occurs in the 12-hour daytime period under analysis. It is also assumed that the traffic will be affected by 80% of the intersections in the City. Thus, projected 2030 citywide daily VMT affected by the program is 14,077,700.
- Total project length of 600 miles is computed.
- Twenty-five (25) percent of total estimate of emissions reduction applied to Phase 3.

The emission reductions are presented in kilograms per day (kg/day) in accordance to CMAQ project reporting requirements.

#### **Strategy Equation**

#### Equation 7.4, Intelligent Transportation Systems (ITS)

Daily Emission Reduction = 
$$\sum_{i=1}^{n} [\mathbf{L}_{i} * \mathbf{ADT}_{i} * (\mathbf{EF}_{B} - \mathbf{EF}_{A})_{i}]$$

The sum of each ITS link's change in running exhaust emissions resulting from improved traffic flow.

Variables: ADT: Average daily traffic for each affected roadway

 $\mathbf{EF}_{A}$ : Speed-based running exhaust emission factor after

implementation (NO<sub>x</sub> and VOC) (grams/mile)

 $\mathbf{EF}_{B}$ : Speed-based running exhaust emission factor before

implementation (NO<sub>x</sub> and VOC) (grams/mile)

Length of each freeway affected by signalization

program (miles)

**N:** Number of affected corridors

For this analysis, the **L** and **ADT** are essentially the estimated VMT (14,077,770) affected by the project. The VMT was distributed through the 12-hour analysis period and multiplied by the result of the emission rate differences. This created a total estimated emissions reduction for the 2030 analysis year for the final, implemented project shown in Table 1 below.

Table 1. Total Estimated Emissions Reduction from Multi-Phase TMC Upgrade Project (2020 Update)

Pollutant	Emissions Reduction (kg/day)
CO	1,360.54
NOx	178.15
VOC	70.04
$PM_{10}$	203.03

Twenty-five percent of this total estimate was applied to Phase 2. Five percent was allocated to the previous Phase 1 design phase, 25 percent to the proposed Phase 2. The remaining 45 percent will be available for Phases 4-5 CMAQ applications.

# **Summary of Results**

The emissions analysis results for the Phase 3 construction of the City's traffic signalization project are shown in Table 2. The analysis shows a significant emissions benefit in the El Paso region can be expected from this project.

Table 2. Estimated Emissions Benefits from Traffic Management Center Upgrade – Phase 3 Construction

Pollutant	Emissions Reduction (kg/day)
CO	340.135
NOx	44.538
VOC	17.510
$\mathrm{PM}_{10}$	50.758



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# Emission Reduction Analysis for City of El Paso Proposed CMAQ Project

# Dyer Street Pedestrian and Parkway Improvements

# October 2021

Prepared for



Ву



#### Task Summary

The Texas A&M Transportation Institute (TTI) was tasked by the City of El Paso to perform a mobile source emissions analysis for a proposed project in the El Paso nonattainment area. The city is seeking funding from the Congestion Mitigation/Air Quality Improvement Program (CMAQ) to help implement the project.

The project will construct 0.2 miles of pedestrian infrastructure improvements along Dyer St.

#### **Individual Project Analysis**

The emissions analysis for the project is presented below. The project name is given along with a brief description of the project. Data sources and analysis assumptions are provided. The equation used from the *Texas Guide to Accepted Mobile Source Emission Reduction Strategies* (MOSERs Guide) is given for the strategy along with the variables of the equation and the equation itself. The results are then computed for the strategy.

It is recommended that the agency conduct a more detailed emissions study of the project as it develops further. The results presented below are valid for CMAQ applications, but more time and effort would increase the accuracy of the emissions benefits. As a result, *this analysis should not be used for conformity purposes*.

#### Dyer Street Pedestrian and Parkway Improvements

The Dyer Street Pedestrian and Parkway Improvements project will install 0.2 miles of pedestrian improvements. The project will serve the City of El Paso by addressing pedestrian safety issues and improve the multi-modal capacity of the roadway. These improvements include improved sidewalks, landscaping, irrigation, and striping along Dyer St. The project limits are from Gateway North to Hercules Ave.

#### **Data Sources**

The City of El Paso provided the project description and scope. These resources provided the research team with a better understanding of the proposed project and potential emissions benefits.

Emission rates used in the analyses were obtained from the U.S. Environmental Protection Agency's MOVES2014b model. TTI staff utilized recently updated emission rate lookup tables (ERLTs) of on-road mobile source emission rates for Texas regions (TTI, May 2021). The updated ERLTs incorporate changes such as updates to the U.S. Environmental Protection Agency's (EPA) motor vehicle emissions model (MOVES2014b, released August 2018, and the latest version of MOVES at the start of the ERLT development project), vehicle and fuel characteristics, weather characteristics, and vehicle miles traveled (VMT) mix. These ERLTs were developed for various TxDOT districts, including El Paso, for use in investigating air quality impacts of proposed transportation projects and mitigation strategies. The tables provide emission rates needed to convert quantities such as VMT, intersection delays, truck stop idling, and vehicle starts to total emissions.

TTI staff used American Community Survey data to compute an increased pedestrian mode share for El Paso, along with a future growth rate for the mode in the region.

### **Analysis Methods**

TTI staff used the analysis method provided in the State of Texas MOSERs Guide, Equation 11.1 – *Bicycle and Pedestrian Lanes or Paths*.

Stated in words, the average annual daily traffic (AADT) of the corridor is multiplied by the percentage of drivers shifting to pedestrian mode, multiplied by the project length, multiplied by the speed-based running exhaust emission factor for participants' trip before utilizing the pedestrian facility.

The detailed equation is provided below in Strategy Equation.

The analysis year used is 2030. For planning purposes, the emissions benefit of a static program will decline over time. Without the increased use of the sidewalks over the project lifetime, any benefits accrued by the mode shift to pedestrian will be negated by the increased emissions from potential higher traffic volumes in the corridor over time.

Assumptions in the MOVES2014b output for the project included:

• Output created for CO, VOC, NOx, and PM-10.

- Light-duty passenger vehicles and light-duty passenger trucks (SUVs), gasoline and dieselfueled, are included according to a projected regional VMT fleet mix (Source Type ID 21, 31)
- Running exhaust, evaporative emissions, brake wear, tire wear, and start emissions rates were calculated. (Process ID 1, 2, 9, 10, 11, 12, 13, 15, 16)
- Considering the project area and the type of trips reduced through the strategy, emissions on Road Type 5, urban unrestricted access were analyzed.
- Overall average speed in the seven roadways is assumed to be 30 mph (Speed bin 7).
- The analysis period is from 7:00 a.m. to 7:00 p.m. on a winter weekday for CO; the same periods on a summer weekday for NOx, VOC, and PM-10. Use of the sidewalks can occur throughout the day, but the greatest impact on emissions will occur with any peak hour or daytime mode shift.
- The vehicle-miles traveled (VMT) reduced as a result of the mode shift to pedestrian were distributed proportionally across the 12 hours and by vehicle types and fuel types in line with the vehicle fleet mix in the El Paso region.

TTI staff reviewed the project information to determine values for the individual variables in the MOSERs equation. The MOSERS Guide encourages planners to make conservative, justifiable assumptions about projects. TTI staff determined a valid percentage mode shift from automobile to pedestrian by participants in El Paso region. The characteristics of this new facility may provide impetus for significant mode shift, but planners should use available data.

The following assumptions were made for the project:

- Light-duty passenger vehicle and light-duty passenger truck AADT in the project area of 14,104 is estimated. This figure is based on AADT traffic counts from TxDOT and the City of El Paso. AADT is estimated based on the data plus a professional estimate of traffic growth and an averaging of the counts. It assumes 80% of the daily traffic along the roadways occurs in the 12-hour daytime period under analysis. It assumes 86% of the traffic is passenger vehicles.
- The current percent pedestrian mode share for the El Paso region is estimated to be 2.5% and can serve as an optimistic mode share increase for the improved pedestrian facilities.
- The 0.025 increase in mode share represents new pedestrians (vehicle trips replaced). This figure should be considered very optimistic.
- Pedestrian facility length of 0.2 miles is used.

The emission reductions are presented in kilograms per day (kg/day) in accordance to CMAQ project reporting requirements.

# **Strategy Equation**

#### Equation 11.1, Bicycle and Pedestrian Lanes or Paths

Daily Emission Reduction = AADT \* PMS \* L \*  $EF_B$ 

The average annual daily traffic of the corridor multiplied by the percentage of drivers shifting to bike/pedestrian multiplied by the average bicycle trip length multiplied by the speed-based running exhaust emission factor for participants' trip before participating in the bike/pedestrian program.

Final unit of measure: grams/day Source: Capitol Area MPO (CAMPO)

**Variables:** AADT: Average annual daily traffic in corridor (vehicles/day)

**EF**<sub>B</sub>: Speed-based running exhaust and start emissions factor for participants' trip before participating in the bike/pedestrian program (NO<sub>x</sub>, VOC, or CO) (grams/mile)

**L:** Length of facility (miles)

**PMS:** Percentage mode shift from driving to bike/pedestrian (decimal)

#### **Analysis**

Due to the large amount of data generated by the MOVES model and the required off-model computations, for presentation purposes the individual running and start emissions rates are not provided in the results below.

For CO:

$$14,104 * 0.025 * 0.2 * EF_B = 0.388 \text{ kg/day}$$

For NOx:

$$14,104 * 0.025 * 0.2 * EF_B = 0.036 \text{ kg/day}$$

For VOC:

$$14,104 * 0.025 * 0.2 * EF_B = 0.028 \text{ kg/day}$$

**For PM-10:** 

$$14,104 * 0.025 * 0.2 * EF_B = 0.001 \text{ kg/day}$$

### **Summary of Results**

The overall emissions analysis results for the project are shown in Table 1 below. The estimated emissions benefits from the pedestrian facilities are modest and dependent on increased use of the facilities as a travel mode in the city and region.

Table 1. Estimated Emissions Benefits from Dyer Street Pedestrian and Parkway Improvements

Pollutant	Emissions Reduction (kg/day)
CO	0.388
NOx	0.036
VOC	0.028
$\mathrm{PM}_{10}$	0.001



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# Emission Reduction Analysis for City of El Paso Proposed CMAQ Project

Traffic Management Center Upgrade Phase 4 - Construction

# October 2021

Prepared for



Ву



## **Task Summary**

The Texas A&M Transportation Institute (TTI) was tasked by the City of El Paso to perform a mobile source emissions analysis for a proposed project in the El Paso metropolitan region. The city is seeking funding from the Congestion Mitigation/Air Quality Improvement Program (CMAQ) to continue the phased implementation of improvements to the City's Traffic Management Center.

## **Individual Project Analysis**

The emissions analysis for the project is presented below. The project name is given along with a brief description of the project. Data sources and analysis assumptions are provided. The equation used from the *Texas Guide to Accepted Mobile Source Emission Reduction Strategies* (MOSERs Guide) is given for the strategy along with the variables of the equation and the equation itself. The results are then computed for the strategy.

It is recommended that the agency conduct a more detailed emissions study of the project as it develops further. As a result, *this analysis should not be used for conformity purposes*.

#### Traffic Management Center Upgrade – Phase 4 - Construction

The City of El Paso seeks to implement phased updates to the City's Traffic Management Center (TMC). The TMC oversees the operation of the City's Transportation Management Center Computerized Signal System. The system includes the signal timing and coordination for approximately 658 traffic signals. The TMC primary objective is incident management, providing real-time response to incidents with the ability to remotely implement emergency signal timing to help ease traffic congestion due to traffic accidents, special events or construction closures. The Traffic Signal controllers are outdated and limit the response capabilities of the TMC. Upgrading the equipment will allow the TMC to mediate congestion and allow for more creative timing of the traffic signal lights for incident management to include adaptive timing.

The fourth phase of these improvements consists of the following:

- Latest Advanced Traffic Management Systems (ATMS)
- Latest Advanced Transportation Controllers
- Adaptive Traffic Control Systems (ATCS)
- Multi-Modal Transportation Solutions, to include the following:
  - o Transit signal priority for mass transit vehicles
  - o Pre-emption for Emergency Vehicles
  - o Bicyclists
  - o Pedestrians
- Hybrid or high-resolution vehicle detection technologies (Radar, Video, microwave)
- Changeable Message Signs (CMS)

#### **Data Sources**

The City of El Paso provided items containing project information and data including project description and cost estimates. These resources provided the research team with a better understanding of the proposed project and potential emissions benefits.

TTI researchers used MOVES2014b emission rates developed for El Paso using rates and data as described in "Development of Emission Rate Lookup Tables: Final Report" prepared for the Texas Department of Transportation by TTI (May 2021). Local input parameters include meteorological; fuels; fuel fractions; age distributions; Inspection and Maintenance Program. Weekday; 24-hour and fleet or sub-fleet composites of individual hourly gasoline and diesel vehicle rates were produced for the analyses using El Paso District fleet and hourly mixes.

Traffic data for the city roadways was garnered from TxDOT traffic count data for the El Paso District available online. A growth rate was estimated and applied to the numbers.

## **Analysis Methods**

TTI staff used the analysis method provided in the State of Texas MOSERs Guide, Equation 7.4 – *Intelligent Transportation Systems (ITS)*. The equation estimates the sum of each ITS link's change in running exhaust emissions resulting from improved traffic flow due to the ITS improvements. The equation is provided below in Strategy Equation.

The equation is valid for CMAQ purposes but a more robust analysis that models the hundreds of individual intersections would provide a more accurate estimate of the emissions benefits derived from the improvements.

Assumptions in the MOVES2014b output for the project included:

- Output created for VOC, CO, NOx, and PM-10.
- The analysis year is 2030.
- Light-duty passenger vehicles and light-duty passenger trucks (SUVs), motorcycles, light commercial trucks, single unit short and long-haul trucks, and combination short and long-haul trucks, gasoline and diesel-fueled, are included according to a projected regional VMT fleet mix (Source Type ID 11, 21, 31, 32, 41, 42, 43, 51, 52, 53, 54, 61, 62).
- Running exhaust and evaporative emissions, break wear and tire wear emissions rates were calculated. (Process ID 1, 9, 10, 11, 12, 13, 15)
- Considering the project area and the type of emissions reduced through the strategy, emissions on Road Type 5, urban unrestricted access were analyzed.
- An average city network speed improvement from 30 mph to 35 mph is assumed (speed bin 7 to speed bin 8) resulting from implementation.
- The analysis period is from 6:00 a.m. to 7:00 p.m. on a winter weekday for CO; the same periods on a summer weekday for NOx, VOC, and PM-10. The effects of the signalization program can occur throughout the day, but the greatest impact on emissions will occur during any peak hours or daytime activity.
- The emissions reduced from the project were distributed across the 13 hours and by vehicle types and fuel types in line with the vehicle fleet mix in the El Paso region.

TTI staff reviewed the project information to determine values for the individual variables in the MOSERs equation. The MOSERS Guide encourages planners to make conservative, justifiable assumptions about projects.

The following assumptions were made for the project:

- A 2030 average daily VMT of 21,500,000 is estimated for the roadway segments affected by installation of the equipment. Factoring in the disparate AADT and ADT numbers throughout the City, along with El Paso MPO regional VMT numbers, the estimate seems reasonable enough to capture the benefit from the project. Future VMT is estimated based on the estimated current number plus application of a 1.105 percent annual growth factor.
- Assumes 80% of the daily traffic along the roadways occurs in the 13-hour daytime period under analysis. It is also assumed that the traffic will be affected by 80% of the intersections in the City. Thus, projected 2030 citywide daily VMT affected by the program is 14,077,700.
- Twenty-five (25) percent of total estimate of emissions reduction applied to Phase 4.

The emission reductions are presented in kilograms per day (kg/day) in accordance with CMAQ project reporting requirements.

## **Strategy Equation**

Equation 7.4, Intelligent Transportation Systems (ITS)

Daily Emission Reduction = 
$$\sum_{i=1}^{n} [\mathbf{L}_{i} * \mathbf{ADT}_{i} * (\mathbf{EF}_{B} - \mathbf{EF}_{A})_{i}]$$

The sum of each ITS link's change in running exhaust emissions resulting from improved traffic flow.

Variables: ADT: Average daily traffic for each affected roadway

**EF**<sub>4</sub>: Speed-based running exhaust emission factor after

implementation (NO<sub>x</sub> and VOC) (grams/mile)

**EF**<sub>B</sub>: Speed-based running exhaust emission factor before

implementation (NO<sub>x</sub> and VOC) (grams/mile)

Length of each freeway affected by signalization

program (miles)

**N:** Number of affected corridors

For this analysis, the **L** and **ADT** are essentially the estimated VMT (14,077,770) affected by the project. The VMT was distributed through the 13-hour analysis period and multiplied by the result of the emission rate differences. This created a total estimated emissions reduction for the 2030 analysis year for the final, implemented project shown in Table 1 below.

Table 1. Total Estimated Emissions Reduction from Multi-Phase TMC Upgrade Project (2020 Update)

Pollutant	Emissions Reduction (kg/day)	
CO	1,360.54	
NOx	178.15	
VOC	70.04	
$PM_{10}$	203.03	

Twenty-five percent of this total estimate was applied to Phase 4. Five percent was allocated to the previous Phase 1 design phase, 25 percent each to the proposed Phases 2-3. The remaining 20 percent will be available for Phase 5 CMAQ application.

## **Summary of Results**

The emissions analysis results for the Phase 4 construction of the City's traffic signalization project are shown in Table 2. The analysis shows a significant emissions benefit in the El Paso region can be expected from this project.

Table 2. Estimated Emissions Benefits from Traffic Management Center Upgrade – Phase 4 - Construction

Pollutant	Emissions Reduction (kg/day)
CO	340.135
NOx	44.538
VOC	17.510
$PM_{10}$	50.758



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## Emission Reduction Analysis for City of El Paso Proposed CMAQ Project

Traffic Management Center Upgrade Phase 5 - Construction

## October 2021

Prepared for



Ву



#### Task Summary

The Texas A&M Transportation Institute (TTI) was tasked by the City of El Paso to perform a mobile source emissions analysis for a proposed project in the El Paso metropolitan region. The city is seeking funding from the Congestion Mitigation/Air Quality Improvement Program (CMAQ) to begin the phased implementation of improvements to the City's Traffic Management Center.

#### **Individual Project Analysis**

The emissions analysis for the project is presented below. The project name is given along with a brief description of the project. Data sources and analysis assumptions are provided. The equation used from the *Texas Guide to Accepted Mobile Source Emission Reduction Strategies* (MOSERs Guide) is given for the strategy along with the variables of the equation and the equation itself. The results are then computed for the strategy.

It is recommended that the agency conduct a more detailed emissions study of the project as it develops further. As a result, this analysis should not be used for conformity purposes.

#### Traffic Management Center Upgrade – Phase 5 - Construction

The City of El Paso seeks to implement phased updates to the City's Traffic Management Center (TMC). The TMC oversees the operation of the City's Transportation Management Center Computerized Signal System. The system includes the signal timing and coordination for approximately 658 traffic signals. The TMC primary objective is incident management, providing real-time response to incidents with the ability to remotely implement emergency signal timing to help ease traffic congestion due to traffic accidents, special events or construction closures. The Traffic Signal controllers are outdated and limit the response capabilities of the TMC. Upgrading the equipment will allow the TMC to mediate congestion and allow for more creative timing of the traffic signal lights for incident management to include adaptive timing.

The fifth phase of these improvements consists of the following:

- Latest Advanced Traffic Management Systems (ATMS)
- Latest Advanced Transportation Controllers
- Adaptive Traffic Control Systems (ATCS)
- Multi-Modal Transportation Solutions, to include the following:
  - o Transit signal priority for mass transit vehicles
  - o Pre-emption for Emergency Vehicles
  - o Bicyclists
  - o Pedestrians
- Hybrid or high-resolution vehicle detection technologies (Radar, Video, microwave)
- Changeable Message Signs (CMS)

#### **Data Sources**

The City of El Paso provided items containing project information and data including project description and cost estimates. These resources provided the research team with a better understanding of the proposed project and potential emissions benefits.

TTI researchers used MOVES2014b emission rates developed for El Paso using rates and data as described in "Development of Emission Rate Lookup Tables: Final Report" prepared for the Texas Department of Transportation by TTI (May 2021). Local input parameters include meteorological; fuels; fuel fractions; age distributions; Inspection and Maintenance Program. Weekday; 24-hour and fleet or sub-fleet composites of individual hourly gasoline and diesel vehicle rates were produced for the analyses using El Paso District fleet and hourly mixes.

Traffic data for the city roadways was garnered from TxDOT traffic count data for the El Paso District available online. A growth rate was estimated and applied to the numbers.

## **Analysis Methods**

TTI staff used the analysis method provided in the State of Texas MOSERs Guide, Equation 7.4 – *Intelligent Transportation Systems (ITS)*. The equation estimates the sum of each ITS link's change in running exhaust emissions resulting from improved traffic flow due to the ITS improvements. The equation is provided below in Strategy Equation.

The equation is valid for CMAQ purposes but a more robust analysis that models the hundreds of individual intersections would provide a more accurate estimate of the emissions benefits derived from the improvements.

Assumptions in the MOVES2014b output for the project included:

- Output created for VOC, CO, NOx, and PM-10.
- The analysis year is 2030.
- Light-duty passenger vehicles and light-duty passenger trucks (SUVs), motorcycles, light commercial trucks, single unit short and long-haul trucks, and combination short and long-haul trucks, gasoline and diesel-fueled, are included according to a projected regional VMT fleet mix (Source Type ID 11, 21, 31, 32, 41, 42, 43, 51, 52, 53, 54, 61, 62).
- Running exhaust and evaporative emissions, break wear and tire wear emissions rates were calculated. (Process ID 1, 9, 10, 11, 12, 13, 15)
- Considering the project area and the type of emissions reduced through the strategy, emissions on Road Type 5, urban unrestricted access were analyzed.
- An average city network speed improvement from 30 mph to 35 mph is assumed (speed bin 7 to speed bin 8) resulting from implementation.
- The analysis period is from 6:00 a.m. to 7:00 p.m. on a winter weekday for CO; the same periods on a summer weekday for NOx, VOC, and PM-10. The effects of the signalization program can occur throughout the day, but the greatest impact on emissions will occur during any peak hours or daytime activity.
- The emissions reduced from the project were distributed across the 13 hours and by vehicle types and fuel types in line with the vehicle fleet mix in the El Paso region.

TTI staff reviewed the project information to determine values for the individual variables in the MOSERs equation. The MOSERS Guide encourages planners to make conservative, justifiable assumptions about projects.

The following assumptions were made for the project:

- A 2030 average daily VMT of 21,500,000 is estimated for the roadway segments affected by installation of the equipment. Factoring in the disparate AADT and ADT numbers throughout the City, along with El Paso MPO regional VMT numbers, the estimate seems reasonable enough to capture the benefit from the project. Future VMT is estimated based on the estimated current number plus application of a 1.105 percent annual growth factor.
- Assumes 80% of the daily traffic along the roadways occurs in the 13-hour daytime period under analysis. It is also assumed that the traffic will be affected by 80% of the intersections in the City. Thus, projected 2030 citywide daily VMT affected by the program is 14,077,700.
- Twenty (20) percent of total estimate of emissions reduction applied to Phase 5.

The emission reductions are presented in kilograms per day (kg/day) in accordance with CMAQ project reporting requirements.

#### **Strategy Equation**

Equation 7.4, Intelligent Transportation Systems (ITS)

Daily Emission Reduction = 
$$\sum_{i=1}^{n} [\mathbf{L}_{i} * \mathbf{ADT}_{i} * (\mathbf{EF}_{B} - \mathbf{EF}_{A})_{i}]$$

The sum of each ITS link's change in running exhaust emissions resulting from improved traffic flow.

Variables: ADT: Average daily traffic for each affected roadway

**EF**<sub>4</sub>: Speed-based running exhaust emission factor after

implementation (NO<sub>x</sub> and VOC) (grams/mile)

**EF**<sub>B</sub>: Speed-based running exhaust emission factor before

implementation (NO<sub>x</sub> and VOC) (grams/mile)

Length of each freeway affected by signalization

program (miles)

**N:** Number of affected corridors

For this analysis, the **L** and **ADT** are essentially the estimated VMT (14,077,770) affected by the project. The VMT was distributed through the 13-hour analysis period and multiplied by the result of the emission rate differences. This created a total estimated emissions reduction for the 2030 analysis year for the final, implemented project shown in Table 1 below.

Table 1. Total Estimated Emissions Reduction from Multi-Phase TMC Upgrade Project (2020 Update)

Pollutant	Emissions Reduction (kg/day)	
CO	1,360.54	
NOx	178.15	
VOC	70.04	
$PM_{10}$	203.03	

Twenty percent of this total estimate was applied to Phase 5. Five percent was allocated to the previous Phase 1 design phase, 25 percent to the implemented and proposed Phases 2-4. The remaining 20 percent is available for the Phase 5 CMAQ application.

## **Summary of Results**

The emissions analysis results for the Phase 5 construction of the City's Traffic Management Center are shown in Table 2. The analysis shows a significant emissions benefit in the El Paso region can be expected from this project.

Table 2. Estimated Emissions Benefits from Traffic Management Center Upgrade – Phase 5 - Construction

Pollutant	Emissions Reduction (kg/day)
CO	272.108
NOx	35.630
VOC	14.008
$\mathrm{PM}_{10}$	40.606



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# Emission Reduction Analysis for Sun Metro Proposed CMAQ Project

## Montana RTS Operations Assistance Phase 1

## March 2020

Prepared for



Ву



## **Task Summary**

The Texas A&M Transportation Institute (TTI) El Paso office was tasked by Sun Metro to perform a mobile source emissions analysis for a proposed project in the El Paso nonattainment area. The transit agency is seeking funding from the Congestion Mitigation/Air Quality Improvement Program (CMAQ).

The project is operational assistance for the first phase of the Rapid Transit Service, BRIO, in the Montana corridor in east-central El Paso region.

#### **Individual Project Analysis**

The emissions analysis for the project is presented below. The strategy name is given along with a brief description of the project. Data sources and analysis assumptions are provided. The equation used from the *Texas Guide to Accepted Mobile Source Emission Reduction Strategies* (MOSERs Guide) is given for the strategy along with the variables of the equation and the equation itself. The results are then computed for the strategy equation.

It is recommended that the agency conduct a more detailed emissions study of the project as it develops further. The results presented below are valid for CMAQ program submission, but this analysis should not be used for conformity purposes.

#### Montana RTS Operations Assistance - Phase 1

Sun Metro transit agency is proposing operations assistance for the first phase of the 16.8-mile BRIO line in the Montana corridor in east El Paso region. The RTS line begins at the Five Points Terminal and ends at the future Far East Transfer Center. Fourteen buses will operate along the route with 25 stations.

#### **Data Sources**

Sun Metro provided several data sources to the TTI team for the analysis: a map of the proposed route, previous emissions analysis for the route, the mileage, hours of operation, and operating costs for the route.

The technical report 2017 On-Road Mobile Source Annual, Summer Weekday and Winter Workday Emissions Inventories: El Paso Area (TTI, August 2019) describes development of 2017 analysis year El Paso MOVES2014-based actual on-road inventories, which were the basis for these MOVES runs, with respect to MOVES modeling procedures and MOVES input data. MOVES modeling set-ups and input data combinations are described starting on Page 33 of the report, in the section "Estimation of Summer and Winter Weekday Emissions Factors." Tables 22 through 33 and surrounding text contain the details. The MOVES modeling part of the process and the local/default input data combinations as described (Table 24) was used, updated where appropriate for model version and for analysis year.

In particular, the actual fuel formulation sulfur values were adjusted to reflect "expected" future year values in place of 2017 actual average sulfur level values (i.e., to maintain consistency with the Tier 3 gasoline standard and for consistency with Ultra Low Sulfur Diesel). It is also noteworthy that the age distributions and AVFT input data from the 2017 analysis were used, since these are based on the mid-year 2014 TxDMV vehicle registrations data, which is currently still "latest available".

Transit passenger characteristics were derived from the American Public Transportation Association report A Profile of Public Transportation Passenger Demographics and Travel Characteristics Reported in On-Board Surveys published in May 2007.

## **Analysis Methods**

TTI staff used the analysis method provided in the August 2008 version of the MOSERs Guide, equation 3.1 - *System/Service Expansion*. The detailed equation is provided below in Strategy Equation.

Stated in words, the equation measures the reduction in start emissions and running exhaust emissions from a change in mode during the operating period and subtracting any additional emissions from the transit vehicles. The benefit is derived through attracting single occupant passenger vehicle drivers to utilize transit as their mode of travel.

The analysis year used is 2022. For planning purposes, the emissions benefit of a static program will decline over time.

Assumptions in the MOVES2014a output for the project included:

- Output created for VOC, CO, NOx, and PM-10
- Light-duty passenger vehicles and light-duty passenger trucks (SUVs) vehicle types, gasoline and diesel-fueled, and transit buses are included according to a projected regional VMT fleet mix (Source Type ID 21, 31)
- Transit vehicle (source type 42) emission rates were included as this will be a new service.
- Running exhaust, running evaporative, and start emissions (Process ID 1, 2, 11, 12, 13, 15)
- Considering the project area and the type of trips reduced through the strategy, primarily, freeway commuting, emissions on Road Type 4, urban restricted access, was used for the passenger vehicles. Road type 5, urban unrestricted access, was used for the transit vehicles.
- Average speed on IH-10 during operating hours (peak and off-peak) is assumed 30 mph.
- Average transit vehicle speed is assumed 20 mph (speed bin 5) based on data received from Sun Metro.
- The analysis period is AM peak hours of 6:00-9:00 a.m., off-peak daytime hours from 9:00 a.m.-3:00 p.m. and PM peak hours of 3:00-8:00 p.m. on a winter weekday for CO; the same periods on a summer weekday for NOx, VOC, and PM-10.
- The vehicle trips reduced (VT<sub>R</sub>) and vehicle-miles travelled reduced (VMT<sub>R</sub>) were distributed proportionally across the 14 hours of model analysis and by vehicle type and fuel type in line with the vehicle fleet mix in the El Paso region.

TTI staff reviewed the project information to determine values for the individual variables in the MOSERs equation. The MOSERS Guide encourages planners to make conservative, justifiable assumptions about projects.

- Based on ridership data provided by Sun Metro, an average daily ridership of 3,300 was assumed.
- APTA ridership survey reports show 52% of transit passengers to be commuting. The RTS project focuses on capturing new commute traffic, so 75% of riders are assumed to be traveling to work and back totaling 2,775 per day.
- The analysis assumes 35% of these commute passengers are former single occupant vehicle (SOV) drivers. This translates to 26.25% of all passengers. This should be considered optimistic. The APTA survey report showed 14.3% of transit roadway passengers would drive alone as an alternative if no transit service was available. However, this new service actively seeks SOV commuters.
- An average trip length of 12.6 miles was computed based on data provided by Sun Metro. The trip lengths were distributed evenly in the reduced VMT.

The final estimated emission reductions are presented in kilograms per day (kg/day) in accordance to CMAQ project reporting requirements.

## **Strategy Equation**

Note: Due to the extensiveness of the MOVES model output data and to help presentation of results, the individual start rates and emission rates per distance ( $\mathbf{TEF}_{AUTO}$  and  $\mathbf{EF}_{B}$ ) per vehicle type computed are not presented but are available for review, if needed.

#### 3.1 System/Service Expansion

## Daily Emission Reduction (for each pollutant) = A + B - C - D

$$A = VT_R * TEF_{AUTO}$$

Reduction in auto start emissions from trips reduced

$$B = VMT_R * EF_B$$

Reduction in auto running exhaust emissions from VMT reductions

$$C = VT_{BUS} * TEF_{BUS}$$

Increase in emissions from additional bus starts

#### $D = VMT_{BUS} * EF_{BUS}$

Increase in emissions from additional bus running exhaust emissions

Where

$$VT_R = N_{TR} * F_{T, SOV}$$

Number of new transit riders multiplied by the percentage of riders shifting from single-occupant auto use

$$VMT_R = VT_R * TL_W$$

Number of vehicle trips reduced multiplied by the average auto trip length

Final unit of measure: grams/day

Source: Texas A&M Transportation Institute

**Variables:** EF<sub>B</sub>: Speed-based running exhaust emission

factor for affected roadway before implementation (NO<sub>x</sub>, VOC, or CO)

(grams/mile)

 $\mathbf{EF}_{BUS}$ : Speed-based running exhaust emission factor

for transit vehicle (NOx, VOC, or CO)

(grams/mile)

 $\mathbf{F}_{T.sov}$ : Percentage of people using a transit vehicle

that previously were vehicle drivers (decimal)

 $N_{TR}$ : New transit ridership

**TEF**<sub>AUTO</sub>: Auto trip-end emission factor ( $NO_x$ ,

VOC, or CO) (grams/trip)

**TEF**<sub>BUS</sub>: Bus (or other transit vehicle) trip-end

emission factor (NOx, VOC, or

CO) (grams/trip)

TLw: Average auto trip length (miles)

**VMT** *BUS***:** VMT by transit vehicle

**VMT**<sub>R</sub>: Reduction in daily automobile VMT

**VT**<sub>BUS</sub>: Daily vehicle trips by transit vehicle

 $VT_R$ : Reduction in number of daily automobile

vehicle trips

#### **Analysis**

For presentation purposes, the MOVES calculation results and extensive results from the equation calculations are not presented in the results below.

 $VT_R = (3,300 * 2) * 0.52 = 3,432 \text{ trips/day}$ Number of transit riders multiplied by 2 multiplied by the percentage of

riders shifting from single-occupant auto use

 $VMT_R = 3,432 * 12.6 = 43,243$  vehicle-miles/day Number of vehicle trips reduced multiplied by the average auto trip length

## **Summary of Results**

The emissions analysis result for the project is shown in Table 1. There are significant emissions benefits for all four pollutants. The results indicate an estimated air quality benefit from the Montana RTS operations assistance project.

Table 1. Montana RTS Operations Assistance Emission Reductions

Pollutant	Emissions Reduction (kg/day)		
CO	100.325		
NOx	2.929		
VOC	5.553		
$PM_{10}$	1.629		



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# Emission Reduction Analysis for Sun Metro Proposed CMAQ Project

## Montana RTS Operations Assistance Phase 2

## March 2020

Prepared for



Ву



## **Task Summary**

The Texas A&M Transportation Institute (TTI) El Paso office was tasked by Sun Metro to perform a mobile source emissions analysis for a proposed project in the El Paso nonattainment area. The transit agency is seeking funding from the Congestion Mitigation/Air Quality Improvement Program (CMAQ).

The project is operational assistance for the second phase of the Rapid Transit Service, BRIO, in the Montana corridor in east-central El Paso region.

#### **Individual Project Analysis**

The emissions analysis for the project is presented below. The strategy name is given along with a brief description of the project. Data sources and analysis assumptions are provided. The equation used from the *Texas Guide to Accepted Mobile Source Emission Reduction Strategies* (MOSERs Guide) is given for the strategy along with the variables of the equation and the equation itself. The results are then computed for the strategy equation.

It is recommended that the agency conduct a more detailed emissions study of the project as it develops further. The results presented below are valid for CMAQ program submission, but this analysis should not be used for conformity purposes.

#### Montana RTS Operations Assistance - Phase 2

Sun Metro transit agency is proposing operations assistance for the second phase of the 16.8-mile BRIO line in the Montana corridor in east El Paso region. The RTS line begins at the Five Points Terminal and ends at the future Far East Transfer Center. Twelve buses will operate along the route with 26 stations.

#### **Data Sources**

Sun Metro provided several data sources to the TTI team for the original analysis: a map of the proposed route, previous emissions analysis for the route, the mileage, hours of operation, and operating costs for the route.

The technical report 2017 On-Road Mobile Source Annual, Summer Weekday and Winter Weekday Emissions Inventories: El Paso County (TTI, August 2019) describes development of 2017 analysis year El Paso MOVES2014a-based actual on-road inventories, which were the basis for these MOVES runs, with respect to MOVES modeling procedures and MOVES input data. MOVES modeling setups and input data combinations are described starting on Page 33 of the report, in the section "Estimation of Seasonal Weekday Emission Rates". Tables 22 through 33 and surrounding text contain the details. The MOVES modeling part of the process and the local/default input data combinations as described (Table 24) were used, but for the CMAQ analysis years 2023 and 2025 (versus 2017 inventory year). In particular, for summer season the actual fuel formulation RVP level, sulfur content, and benzene content values were modified to reflect "expected" future year values in place of the summer 2017, local survey-based actual average RVP and sulfur and benzene level values (i.e., to consistency with state and federal standards). (Appropriate MOVES winter default formulations were used in absence of local, winter survey data.) The age distributions and AVFT input data from the 2017 analysis were used (although still based on the mid-year 2014 TxDMV vehicle registrations data, which is currently still "latest available").

Transit passenger characteristics were derived from the American Public Transportation Association report A Profile of Public Transportation Passenger Demographics and Travel Characteristics Reported in On-Board Surveys published in May 2007.

## **Analysis Methods**

TTI staff used an analysis method provided in the August 2008 version of the MOSERs Guide, equation 3.2 - *System/Service Operational Improvements*. The detailed equation is provided below in Strategy Equation.

Stated in words, the equation measures the reduction in start emissions and running exhaust emissions from a change in mode during the operating period and subtracting any additional emissions from the transit vehicles. The benefit is derived through attracting single occupant passenger vehicle drivers to utilize transit as their mode of travel.

The analysis year used is 2023. For planning purposes, the emissions benefit of a static program will decline over time.

Assumptions in the MOVES2014a output for the project included:

- Output created for VOC, CO, NOx, and PM-10
- Light-duty passenger vehicles and light-duty passenger trucks (SUVs) vehicle types, gasoline
  and diesel-fueled, are included according to a projected regional VMT fleet mix (Source
  Type ID 21, 31)
- The project is assumed to be implemented in the analysis; therefore, no transit vehicle emissions are included in the analysis.
- Considering the project area and the type of trips reduced through the strategy, primarily, freeway commuting, emissions on Road Type 4, urban restricted access was used.
- Average speed on IH-10 during RTS operating hours (peak and off-peak) is assumed 30 mph (Speed bin 7).
- The analysis period is AM peak hours of 6:00-9:00 a.m., off-peak daytime hours from 9:00 a.m.-3:00 p.m. and PM peak hours of 3:00-8:00 p.m. on a winter weekday for CO; the same periods on a summer weekday for NOx, VOC, and PM-10.
- The vehicle trips reduced (VT<sub>R</sub>) and vehicle-miles travelled reduced (VMT<sub>R</sub>) were distributed proportionally across the 14 hours of model analysis and by vehicle type and fuel type in line with the vehicle fleet mix in the El Paso region.

TTI staff reviewed the project information to determine values for the individual variables in the MOSERs equation. The MOSERS Guide encourages planners to make conservative, justifiable assumptions about projects.

- Based on ridership data provided by Sun Metro and factoring in ridership growth, an average daily ridership of 3,600 was assumed.
- APTA ridership survey reports show 52% of transit passengers to be commuting. The RTS project focuses on capturing new commute traffic, so 75% of riders are assumed to be traveling to work and back totaling 2,700 per day.
- The analysis assumes 35% of these commute passengers are former single occupant vehicle (SOV) drivers. This translates to 26.25% of all passengers. This should be considered optimistic. The APTA survey report showed 14.3% of transit roadway passengers would drive alone as an alternative if no transit service was available. However, this new service actively seeks SOV commuters.
- An average trip length of 12.6 miles was computed based on data provided by Sun Metro. The trip lengths were distributed evenly in the reduced VMT.

The final estimated emission reductions are presented in kilograms per day (kg/day) in accordance to CMAQ project reporting requirements.

## Strategy Equation

Note: Due to the extensiveness of the MOVES model output data and to help presentation of results, the individual start rates and emission rates per distance ( $\mathbf{TEF}_{AUTO}$  and  $\mathbf{EF}_{B}$ ) per vehicle type computed are not presented but are available for review if needed. Also, the project is assumed implemented by phase 2 thus transit vehicle emissions (parts C and D) are not included in this analysis.

## 3.2 System/Service Operational Improvements

#### Daily Emission Reduction (for each pollutant) = A + B

$$A = VT_R * TEF_{AUTO}$$

Reduction in auto start emissions from trips reduced

#### $B = VMT_R * EF_B$

Reduction in auto running exhaust emissions from VMT reductions

Where

$$VT_R = N_{TR} * F_{T,SOV}$$

Number of new transit riders multiplied by the percentage of riders shifting from single-occupant auto use

$$VMT_R = VT_R * TL_W$$

Number of vehicle trips reduced multiplied by the average auto trip length

Final unit of measure: grams/day

Source: Texas A&M Transportation Institute

**Variables:** EF<sub>B</sub>: Speed-based running exhaust emission

factor for affected roadway before implementation (NO<sub>x</sub>, VOC, or CO)

(grams/mile)

 $\mathbf{F}_{T,sov}$ : Percentage of people using a transit vehicle

that previously were vehicle drivers (decimal)

 $N_{TR}$ : New transit ridership

**TEF**<sub>AUTO</sub>: Auto trip-end emission factor ( $NO_x$ ,

VOC, or CO) (grams/trip)

TL<sub>W</sub>: Average auto trip length (miles)

 $VMT_R$ : Reduction in daily automobile VMT

 $VT_R$ : Reduction in number of daily automobile

vehicle trips

## **Analysis**

$$VT_R = (3,600 * 2) * 0.52 = 3,744 \text{ trips/day}$$

Number of transit riders multiplied by 2 multiplied by the percentage of riders shifting from single-occupant auto use

$$VMT_R = 3,744 * 12.6 = 47,174 \text{ vehicle-miles/day}$$

Number of vehicle trips reduced multiplied by the average auto trip length

## **Summary of Results**

The emissions analysis result for the project is shown in Table 1. There are significant daily emissions benefits for all four pollutants. The results indicate an estimated air quality benefit from the Montana RTS Phase 2 operational assistance project.

Table 1. Montana RTS Operational Assistance - Phase 2 Emission Reductions

Pollutant	Emissions Reduction (kg/day)
СО	99.211
NOx	6.635
VOC	4.688
$PM_{10}$	2.513



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# Emission Reduction Analysis for Sun Metro Proposed CMAQ Project

## Montana RTS Operations Assistance Phase 3

## March 2020

Prepared for



Ву



## **Task Summary**

The Texas A&M Transportation Institute (TTI) El Paso office was tasked by Sun Metro to perform a mobile source emissions analysis for a proposed project in the El Paso nonattainment area. The transit agency is seeking funding from the Congestion Mitigation/Air Quality Improvement Program (CMAQ).

The project is operational assistance for the third phase of the Rapid Transit Service, BRIO, in the Montana corridor in east-central El Paso region.

#### **Individual Project Analysis**

The emissions analysis for the project is presented below. The strategy name is given along with a brief description of the project. Data sources and analysis assumptions are provided. The equation used from the *Texas Guide to Accepted Mobile Source Emission Reduction Strategies* (MOSERs Guide) is given for the strategy along with the variables of the equation and the equation itself. The results are then computed for the strategy equation.

It is recommended that the agency conduct a more detailed emissions study of the project as it develops further. The results presented below are valid for CMAQ program submission, but *this analysis should not be used for conformity purposes*.

#### Montana RTS Operations Assistance - Phase 3

Sun Metro transit agency is proposing operations assistance for the third phase of the 16.8-mile BRIO line in the Montana corridor in east El Paso region. The RTS line begins at the Five Points Terminal and ends at the future Far East Transfer Center. Twelve buses will operate along the route with 26 stations.

#### **Data Sources**

Sun Metro provided several data sources to the TTI team for the original analysis: a map of the proposed route, previous emissions analysis for the route, the mileage, hours of operation, and operating costs for the route.

The technical report 2017 On-Road Mobile Source Annual, Summer Weekday and Winter Weekday Emissions Inventories: El Paso County (TTI, August 2019) describes development of 2017 analysis year El Paso MOVES2014a-based actual on-road inventories, which were the basis for these MOVES runs, with respect to MOVES modeling procedures and MOVES input data. MOVES modeling setups and input data combinations are described starting on Page 33 of the report, in the section "Estimation of Seasonal Weekday Emission Rates". Tables 22 through 33 and surrounding text contain the details. The MOVES modeling part of the process and the local/default input data combinations as described (Table 24) were used, but for the CMAQ analysis years 2023 and 2025 (versus 2017 inventory year). In particular, for summer season the actual fuel formulation RVP level, sulfur content, and benzene content values were modified to reflect "expected" future year values in place of the summer 2017, local survey-based actual average RVP and sulfur and benzene level values (i.e., to consistency with state and federal standards). (Appropriate MOVES winter default formulations were used in absence of local, winter survey data.) The age distributions and AVFT input data from the 2017 analysis were used (although still based on the mid-year 2014 TxDMV vehicle registrations data, which is currently still "latest available").

Transit passenger characteristics were derived from the American Public Transportation Association report A Profile of Public Transportation Passenger Demographics and Travel Characteristics Reported in On-Board Surveys published in May 2007.

## **Analysis Methods**

TTI staff used an analysis method provided in the August 2008 version of the MOSERs Guide, equation 3.2 - *System/Service Operational Improvements*. The detailed equation is provided below in Strategy Equation.

Stated in words, the equation measures the reduction in start emissions and running exhaust emissions from a change in mode during the operating period and subtracting any additional emissions from the transit vehicles. The benefit is derived through attracting single occupant passenger vehicle drivers to utilize transit as their mode of travel.

The analysis year used is 2025. For planning purposes, the emissions benefit of a static program will decline over time.

Assumptions in the MOVES2014a output for the project included:

- Output created for VOC, CO, NOx, and PM-10
- Light-duty passenger vehicles and light-duty passenger trucks (SUVs) vehicle types, gasoline
  and diesel-fueled, are included according to a projected regional VMT fleet mix (Source
  Type ID 21, 31)
- The project is assumed to be implemented in the analysis; therefore, no transit vehicle emissions are included in the analysis.
- Considering the project area and the type of trips reduced through the strategy, primarily, freeway commuting, emissions on Road Type 4, urban restricted access was used.
- Average speed on IH-10 during RTS operating hours (peak and off-peak) is assumed 30 mph (Speed bin 7).
- The analysis period is AM peak hours of 6:00-9:00 a.m., off-peak daytime hours from 9:00 a.m.-3:00 p.m. and PM peak hours of 3:00-8:00 p.m. on a winter weekday for CO; the same periods on a summer weekday for NOx, VOC, and PM-10.
- The vehicle trips reduced (VT<sub>R</sub>) and vehicle-miles travelled reduced (VMT<sub>R</sub>) were distributed proportionally across the 14 hours of model analysis and by vehicle type and fuel type in line with the vehicle fleet mix in the El Paso region.

TTI staff reviewed the project information to determine values for the individual variables in the MOSERs equation. The MOSERS Guide encourages planners to make conservative, justifiable assumptions about projects.

- Based on ridership data provided by Sun Metro and factoring in ridership growth, an average daily ridership of 3,700 was assumed.
- APTA ridership survey reports show 52% of transit passengers to be commuting. The RTS project focuses on capturing new commute traffic, so 75% of riders are assumed to be traveling to work and back totaling 2,775 per day.
- The analysis assumes 35% of these commute passengers are former single occupant vehicle (SOV) drivers. This translates to 26.25% of all passengers. This should be considered optimistic. The APTA survey report showed 14.3% of transit roadway passengers would drive alone as an alternative if no transit service was available. However, this new service actively seeks SOV commuters.
- An average trip length of 12.6 miles was computed based on data provided by Sun Metro. The trip lengths were distributed evenly in the reduced VMT.

The final estimated emission reductions are presented in kilograms per day (kg/day) in accordance to CMAQ project reporting requirements.

## Strategy Equation

Note: Due to the extensiveness of the MOVES model output data and to help presentation of results, the individual start rates and emission rates per distance ( $\mathbf{TEF}_{AUTO}$  and  $\mathbf{EF}_B$ ) per vehicle type computed are not presented but are available for review if needed. Also, the project is assumed implemented by phase 3 thus transit vehicle emissions (parts C and D) are not included in this analysis.

### 3.2 System/Service Operational Improvements

#### Daily Emission Reduction (for each pollutant) = A + B

$$A = VT_R * TEF_{AUTO}$$

Reduction in auto start emissions from trips reduced

#### $B = VMT_R * EF_B$

Reduction in auto running exhaust emissions from VMT reductions

Where

$$VT_R = N_{TR} * F_{T,SOV}$$

Number of new transit riders multiplied by the percentage of riders shifting from single-occupant auto use

$$VMT_R = VT_R * TL_W$$

Number of vehicle trips reduced multiplied by the average auto trip length

Final unit of measure: grams/day

Source: Texas A&M Transportation Institute

**Variables:** EF<sub>B</sub>: Speed-based running exhaust emission

factor for affected roadway before implementation (NO<sub>x</sub>, VOC, or CO)

(grams/mile)

 $\mathbf{F}_{T,sov}$ : Percentage of people using a transit vehicle

that previously were vehicle drivers (decimal)

 $N_{TR}$ : New transit ridership

**TEF**<sub>AUTO</sub>: Auto trip-end emission factor ( $NO_x$ ,

VOC, or CO) (grams/trip)

TL<sub>W</sub>: Average auto trip length (miles)

 $VMT_R$ : Reduction in daily automobile VMT

 $VT_R$ : Reduction in number of daily automobile

vehicle trips

### **Analysis**

$$VT_R = (3,700 * 2) * 0.52 = 3,848 \text{ trips/day}$$

Number of transit riders multiplied by 2 multiplied by the percentage of riders shifting from single-occupant auto use

$$VMT_R = 3,848 * 12.6 = 48,485 \text{ vehicle-miles/day}$$

Number of vehicle trips reduced multiplied by the average auto trip length

# **Summary of Results**

The emissions analysis result for the project is shown in Table 1. There are significant, continued daily emissions benefits for all four pollutants. The results indicate an estimated air quality benefit from the Montana RTS Phase 3 operational assistance project.

Table 1. Montana RTS Operational Assistance - Phase 3 Emission Reductions

Pollutant	Emissions Reduction (kg/day)
CO	90.721
NOx	5.599
VOC	4.504
$PM_{10}$	2.569



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# APPENDIX B: PERFORMANCE BASED PLANNING AND PROGRAMMING

#### PERFORMANCE MEASURES

Measuring and tracking the performance of the region's transportation system is a fundamental component of the RMS 2050 MTP and the performance-based planning process. Performance measurement allows planners to assess the current state of the system to develop recommendations for improvements, evaluate the effectiveness of recently implemented improvements, and forecast the effectiveness of planned improvements.

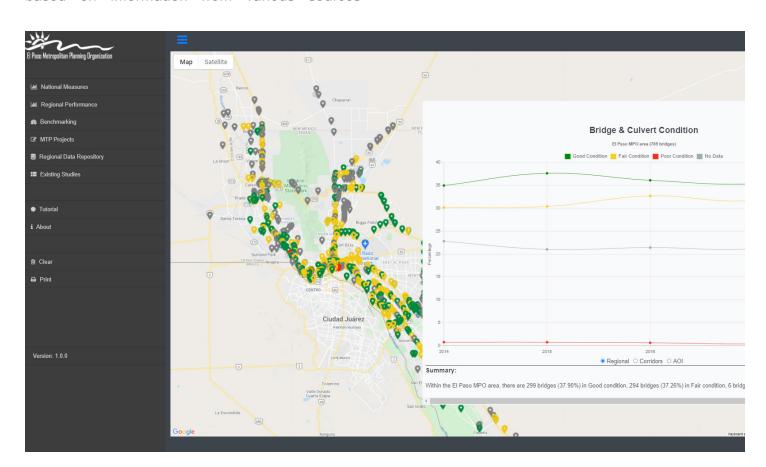
The EPMPO-monitors two kinds of performance as part of its performance-based planning efforts: Observed Performance and Forecasted or Modeled Performance.

<u>Observed Performance</u>: Performance is measured based on information from various sources

(national, state, local) and reported via a webbased application tool developed for geospatial visualization of performance of the transportation network. This webtool can be found at <a href="https://www.elpasompo.org/Links">https://www.elpasompo.org/Links</a> through the "EPMPO Performance Measures Tool" link.

The objectives of the Web Tool are:

- To track transportation performance over time
- To support identification of gaps in infrastructure across transportation modes
- To provide performance-based information for planning and programming decisions and
- To be a resource for local planning partners and general public.



The Multimodal Web Tool shows performance of transportation networks in the El Paso region captured by multimodal performance measures that were identified from Destino 2045 Metropolitan Transportation Plan (2018), Congestion Management Process (2013), and FHWA National Performance Measures (2017), and based on available local, state, and national data.

Forecasted or Modeled Performance: Using EPMPO's TDM, planners can forecast the performance of the region's transportation system, considering both planned system improvements and forecasted demographics. Performance-based planning using these measures was initiated with the development of the previous MTP (Destino 2045 MTP), and additional measures have been incorporated as part of the development of the RMS 2050 TDM and the reporting output summary has been improved.

# NATIONAL PERFORMANCE REQUIREMENTS

Federal legislation passed in 2012 introduced a new requirement to incorporate a performance-based approach into the transportation planning process. The federal transportation bill *Moving Ahead for Progress in 21st Century Act* (MAP-21) required state Departments of Transportation, MPOs, and transit authorities to set coordinated targets, report on a required set of performance measures, and prioritize projects using a coordinated performance-based planning process. These performance requirements were continued and bolstered by the *Fixing America's Surface Transportation* (FAST) Act, which was signed into law in 2015.

The federal performance measures fall into three main categories—safety, maintenance, and performance. Safety measures track highway and transit deaths and injuries and include transit incidents like fires or crashes. Maintenance measures look at the age of transit fleets and the condition of roads and bridges. System performance measures look at highway congestion and reliability, freight movement, and environmental sustainability, including air quality.

TABLE 2-2: FEDERAL PERFORMANCE MEASURE CATEGORIES

6.6.	Highway Safety
Safety	Transit Safety (Public Transportation Agency Safety Plan)
Maintenance	Highway Pavement and Bridge Conditions
Maintenance	Transit Asset Management (TAM)
	National Highway System (NHS) Congestion
System Performance	Freight
	Congestion Management and Air Quality (CMAQ) Program

Federal performance measure final rules establish deadlines for target setting and reporting for each of the required performance measures. For the measures identified in each final rule, MPOs are required to adopt targets and baseline performance measures, and to report progress toward achieving the targets in Regional Performance adopted two years after the effective date of the final rule. The five performance measures' final rules currently effective were established at different times, and therefore have different target-setting and implementation deadlines, as seen in **Table 2-3** below.

**TABLE 2-3: SUMMARY OF IMPLEMENTATION TIMELINES** 

	FINIAL	TARGE	T SETTING DI	EADLINE	BEOLUBED		
FINAL RULE	FINAL RULE EFFECTIVE DATE	STATE DOT	TRANSIT PROVIDER	МРО	REQUIRED TO BE INCLUDED IN MTP BY	REPORTING PERIOD	REPORTING SCHEDULE
PM1: Safety	4/14/2016	8/31/2017	-	2/16/2018	5/27/2018	Annually	Annually
PM2: Infrastructure PM3: System Performance	5/20/2017	5/20/2018	-	11/16/2018	5/20/2019	2- and 4-year performance periods	Biannually (2018,2020, 2022,etc.)
Transit Asset Management (TAM)	10/1/2016	10/1/2017	-	12/27/2017	10/1/2018	Complete updated TAM Plan Oct 2022	
Public Transportation Agency Safety Plan (PTASP)	7/19/2018	-	7/20/2020 (extended to 12/31/2020)	1/20/2021	7/20/2021	•	rtified by transit annually.

At the adoption date of RMS 2050 MTP, all five performance measure rules are effective, and the adoption of official targets is required and must be reported.

# REQUIRED PERFORMANCE MEASURES AND TARGETS

A summary of the required National Performance Measures aligned with the seven National Goals is presented below in **Table 2-4**. The EPMPO has adopted targets set by the states (TxDOT and NMDOT) for all National Performance Measures. This section summarizes the adopted targets for each of the measures and provides an analysis to determine if the targets were met or not. Certain performance measures may be updated on an annual basis. See Appendix D for updated information.

**TABLE 2-4: NATIONAL GOALS AND METRICS** 

NATIONAL GOAL	NATIONAL PERFORMANCE MEASURE(S)						
	- Fatalities (# and rate)						
Safety	- Serious Injuries (# and rate)						
	- Number of non-motorized fatalities and serious injuries						
	- % of Interstate pavements in Good & Poor Condition						
Infrastructure Condition	National Highway System =NHS						
	- % of HNS bridges classified as in Good & Poor condition						
Courselies Bodustics	- Annual hours of PHED per capita	Donk Hour Everseius Dolan, DUED					
Congestion Reduction	-% Non-SOV Travel	Peak Hour Excessive Delay =PHED					
Costone Deliability	- % of PMT on the Interstate that are reliable	Oursell DAAT					
System Reliability - % of PMT on non- Interstate that are reliable		Passenger Miles Traveled=PMT					
Freight Movement & Economic Vitality	- TTTR Index on the Interstate System	Truck Travel Time Reliability Index =TTTRI					
Environmental Sustainability	- % Change in CO2 Emissions on NHS Compared to Calendar year 2017						
Reduced project delivery delays	- No national measures in current legislation						

#### SAFETY (PM1)

State Targets adopted by the EPMPO Transportation Policy Board for previous fiscal years and for the most recent year up to the date of completion of RMS 2050 MTP are presented in the tables below for Texas and New Mexico respectively (**Table 2-5** and **Table 2-6**).

TABLE 2-5: SAFETY - TEXAS STATE TARGETS BY CALENDAR YEAR

PM1: SAFETY	2018	2019	2020	2021	2022
Number of fatalities	3,704	3,791	3,840	3,687	3,563
Rate of fatalities	1.43	1.414	1.406	1.33	1.27
Number of serious injuries	17,565	17,751	17,394	17,151	16,677
Rate of serious injuries	6.74	6.55	6.286	6.06	5.76
Number of non-motorized fatalities and serious injuries	2,151	2,237.6	2,285	2,346.4	2,367

TABLE 2-6: SAFETY - NEW MEXICO STATE TARGETS BY CALENDAR YEAR

PM1: SAFETY	2018	2019	2020	2021	2022
Number of fatalities	364.1	375	401.9	411.6	421.9
Rate of fatalities	1.33	1.318	1.429	1.486	1.645
Number of serious injuries	1,219.4	1,100	1,074.2	1,030.5	1,030.5
Rate of serious injuries	4.456	3.825	3.82	3.722	3.842
Number of non-motorized fatalities and serious injuries	228	220.6	204	200	190.6

Although the EPMPO has adopted the state's safety targets, eventually regional targets based on data specific to the EPMPO area will be developed. For this purpose, the EPMPO has initiated an analysis in cooperation with UTEP to calculate regional targets and performance, based on adopted targets following TxDOT and NMDOT methodology. The analysis presented below is based on available data for EI Paso County and portions of Doña Ana County within the study area. The analysis aims to determine whether targets were met for the EPMPO study area and to provide information for the development of the regional targets.

Given that year 2020 was an unusual year due to the impact of the COVID-19 pandemic on traffic volumes and congestion, crash data for year 2019 is being reported for RMS 2050 MTP. According to the 2019 performance in El Paso County, only two out of five performance targets were either met or were better than baseline as presented in **Table 2-7** for El Paso County and five out of the five performance targets were met for Doña Ana and Otero Counties as shown in **Table 2-8**.

The Final Rule allows states that do not meet a target to be considered as having made significant progress toward meeting the target if the outcome for that performance measure is better than the state's performance for the year prior to the year in which the target was established (i.e., baseline safety performance). A state DOT is determined to have met, or made significant progress toward meeting, its targets when at least four of the five required performance targets are either met or the safety outcome for the performance measure has improved.

TABLE 2-7: EL PASO COUNTY, PM1: SAFETY CALENDAR YEAR 2019

PM1: SAFETY	BASELINE PERFORMANCE 2013-2017	2019 ACTUAL PERFORMANCE	5-YEAR ROLLING AVERAGE 2015-2019	2019 TARGET	TARGET STATUS	BETTER THAN BASELINE	MET OR MADE SIGNIFICANT PROGRESS
Number of Fatalities	67	80	75	70	NOT MET	NO	
Fatality Rate	1.299	1.388	1.383	1.283	NOT MET	NO	
Number of Serious Injuries	282.6	262	288.8	362.5	MET 🗸	N/A*	NO
Serious Injury Rate	5.47	4.545	5.359	6.64	MET 🗸	N/A*	
Number of Non-motorized Fatalities and Serious Injuries	58.6	74	63.8	62.5	NOT MET	NO	

<sup>\*</sup> N/A indicates that better than baseline analysis not applicable since the target was met

According to the 2019 performance in Doña Ana and Otero County, all five out of five performance targets were met.

TABLE 2-8: DOÑA ANA AND OTERO COUNTY, PM1: SAFETY CALENDAR YEAR 2019

PM1: SAFETY	BASELINE PERFORMANCE 2012-2016	2019 ACTUAL PERFORMANCE	5-YEAR ROLLING AVERAGE 2015-2019	2019 TARGET	TARGET STATUS	BETTER THAN BASELINE	MET OR MADE SIGNIFICANT PROGRESS
Number of Fatalities	5.6	7	5.2	6	MET 🗸	N/A*	
Fatality Rate	2.778	2.991	2.364	2.722	MET 🗸	N/A*	
Number of Serious Injuries	19.2	6	12.2	15.8	MET 🗸	N/A*	YES <b>✓</b>
Serious Injury Rate	9.592	2.6	5.59	7.194	MET 🗸	N/A*	
Number of Non-motorized Fatalities and Serious Injuries	1.6	0	0.8	1.9	MET <b>✓</b>	N/A*	

 $<sup>^{\</sup>star}$  N/A indicates that better than baseline analysis not applicable since the target was met

#### INFRASTRUCTURE CONDITION (PM2)

Texas state targets for Infrastructure Condition adopted by the EPMPO Transportation Policy Board are presented in the **Table 2-9**. 2-year and 4-year targets for FY 2022 were adopted on November 16, 2018 and 4-year targets were revised on March 26, 2021.

**TABLE 2-9: INFRASTRUCTURE CONDITION - TEXAS STATE TARGETS** 

PM2: INFRASTRUCTURE CONDITION	2-YEAR BASELINE CONDITION/			2022 T	2022 TARGET	
			2-YEAR TARGET	4-YR	4-YR ADJUSTED	
ADOPTED BY TPB ON:		TEM OMVIANCE		11/16/2018	3/26/2021	
Percentage of <u>pavements</u> on the Interstate System in GOOD condition	-	66.60%	-	66.40%	65.50%	
Percentage of <u>pavements</u> on the Interstate System in POOR condition	-	0.10%	-	0.30%	0.20%	
Percentage of <u>pavements</u> on the non- Interstate NHS in GOOD condition	54.50%	55.20%	52%	52.30%	54.10%	
Percentage of <u>pavements</u> on the non- Interstate NHS in POOR condition	14.00%	13.50%	14.30%	14.30%	14.20%	
Percent of NHS <u>bridges</u> classified as in GOOD condition	50.70%	50.70%	50.60%	50.40%	-	
Percent of NHS <u>bridges</u> classified as in POOR condition	0.90%	1.30%	0.80%	0.80%	1.50%	

The New Mexico state 4-year targets for FY 2021 were adopted by the Transportation Policy Board on November 16, 2018 (**Table 2-10**).

TABLE 2-10: INFRASTRUCTURE CONDITION - NEW MEXICO STATE TARGETS

PM2: INFRASTRUCTURE CONDITION  ADOPTED BY TPB ON NOV, 16 2018	4 YEAR (2021)
Percentage of pavements on the Interstate System in GOOD condition	59.10%
Percentage of pavements on the Interstate System in POOR condition	5.00%
Percentage of pavements on the non-Interstate NHS in GOOD condition	34.20%
Percentage of pavements on the non-Interstate NHS in POOR condition	12.00%
Percent of NHS bridges classified as in GOOD condition	30.00%
Percent of NHS bridges classified as in POOR condition	2.50%

Similarly, the EPMPO has developed an analysis based on available regional data to determine whether the infrastructure condition targets were met for the EPMPO study area. This analysis will be used in the development of future targets specific to the region.

The latest Highway Performance Monitoring System (HPMS) pavement condition data available at the time of development of RMS 2050 MTP was for year 2018 in El Paso, Doña Ana, and Otero

Counties. The latest National Bridge Investment Analysis System (NBIAS) bridge condition data was available for year 2019 in El Paso, Doña Ana, and Otero Counties.

Since Texas targets adopted by the state were only for years 2020 and 2022, the 2018 pavement data and 2019 bridge data are compared against these targets for El Paso County. As presented below in **Table 2-11**, only two of the six performance measures for El Paso County met the target.

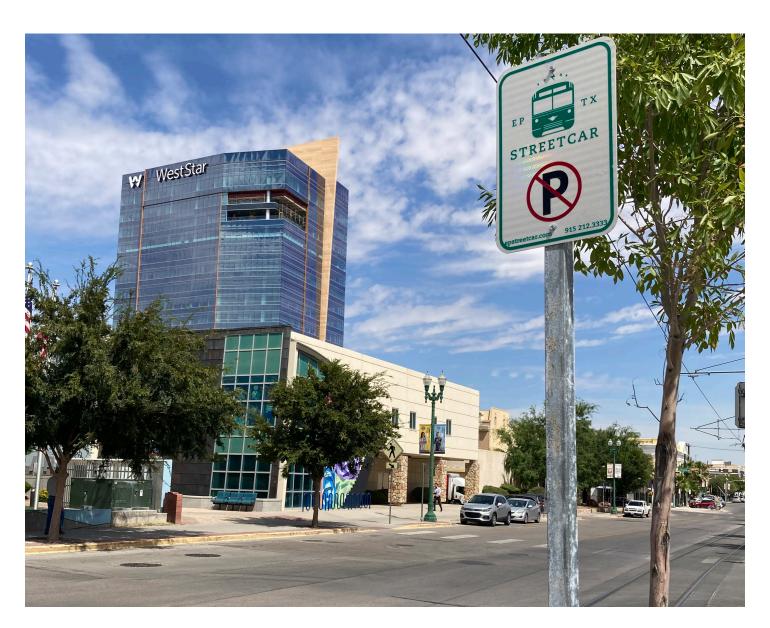


TABLE 2-11: EL PASO COUNTY, PM2: INFRASTRUCTURE CONDITION

	TX	Т	X	EL PASO COUNTY	
PM2: INFRASTRUCTURE CONDITION	BASELINE	ADOPTED TARGETS		ACTUAL PERFORMANCE	
	2018	2020	2022	2018 HPMS, 2019 NBIAS	
Percentage of <u>pavements</u> on the Interstate System in GOOD condition	-	-	66.40%	47.71%	
Percentage of <u>pavements</u> on the Interstate System in POOR condition	-	-	0.30%	4.75%	
Percentage of <u>pavements</u> on the non-Interstate NHS in GOOD condition	54.40%	52.00%	52.30%	29.28%	
Percentage of <u>pavements</u> on the non-Interstate NHS in POOR condition	13.80%	14.30%	14.30%	25.55%	
Percent of NHS <u>bridges</u> classified as in GOOD condition	50.63%	50.58%	50.42%	54.37% ✓	
Percent of NHS <u>bridges</u> classified as in POOR condition	0.88%	0.80%	0.80%	0.00% 🗸	

<sup>✓</sup> indicates target was met

Since NM targets adopted by the state were only for years 2019 and 2021, the 2018 pavement data and 2019 bridges data are compared against these targets for Doña Ana and Otero Counties. **Table 2-12** below demonstrates that all of the measures for Doña Ana and Otero Counties were met.

TABLE 2-12: DOÑA ANA AND OTERO COUNTY, PM2: INFRASTRUCTURE CONDITION

PM2: INFRASTRUCTURE CONDITION	NM ADOPT	ED TARGETS	ACTUAL PERFORMANCE	
	2019	2021	2018 HPMS	
Percentage of <u>pavements</u> on the Interstate System in GOOD condition	57.30%	59.10%	100% 🗸	
Percentage of <u>pavements</u> on the Interstate System in POOR condition	4.50%	5%	0.00% ✔	
Percentage of <u>pavements</u> on the non-Interstate NHS in GOOD condition	35.60%	34.2%	72.16% <b>✓</b>	
Percentage of <u>pavements</u> on the non-Interstate NHS in POOR condition	9%	12%	7.58% 🗸	
Percent of NHS <u>bridges</u> classified as in GOOD condition	36%	30%	39.85% ✔	
Percent of NHS <u>bridges</u> classified as in POOR condition	3.30%	2.50%	0.00% 🗸	

<sup>✓</sup> indicates target was met

#### SYSTEM PERFORMANCE, FREIGHT, AND CMAQ (PM3)

Texas state targets for System Performance adopted by the EPMPO Transportation Policy Board are presented in **Table 2-13**. 2-year and 4-year targets for FY 2022 were adopted on November 16, 2018 and 4-year targets were revised on March 26, 2021.

**TABLE 2-13: SYSTEM PERFORMANCE - TEXAS STATE TARGETS** 

PM3: SYSTEM PERFORMANCE		2 7545		2022 TARGET	
	BASELINE	2-YEAR CONDITION / PERFORMANCE	2-YEAR TARGET	4-YR	4-YR ADJUSTED
ADOPTED BY TPB ON:		PERFORMANCE		11/16/2018	3/26/2021
Percent of the Person-Miles Traveled on the Interstate That Are Reliable	79.50%	81.20%	61.20%	56.60%	70%
Percent of the Person-Miles Traveled on Non-Interstate That Are Reliable	-	83%	-	55.0%	70%
Truck Travel Time Reliability (TTTR) Index	1.40	1.44	1.7	1.79	1.78

The New Mexico state 4-year targets for FY 2021 were adopted by the Transportation Policy Board on November 16, 2018 (**Table 2-14**).

**TABLE 2-14: SYSTEM PERFORMANCE - NEW MEXICO STATE TARGETS** 

PM3: SYSTEM PERFORMANCE	4 YEAR (2021)
ADOPTED BY TPB ON:	NOV 16,2018
Percent of the Person-Miles Traveled on the Interstate that are Reliable	95.10%
Percent of the Person-Miles Traveled on Non-Interstate that are Reliable	90.40%
Truck Travel Time Reliability (TTTR) Index	1.15

Observing the current performance of the roadway system is an important component of assessing the system's needs and planning for its future. For the regional analysis and to determine if the system performance targets were met or not for the EPMPO study area, UTEP has done a comparison of the adopted targets to actual performance based on available data.

These measures are primarily calculated using the National Performance Management Research

Dataset (NPMRDS). The latest NPMRDS travel time reliability data was available for years 2017, 2018 and 2019 in El Paso County, Doña Ana and Otero Counties.

Since Texas targets were adopted only for years 2020 and 2022, the 2017/2018/2019 travel time reliability is compared against these targets for El Paso County.

TABLE 2-15: EL PASO COUNTY, PM3: SYSTEM PERFORMANCE

PM3: SYSTEM PERFORMANCE	TX	TX ADOPTED TARGETS		ACTUAL PERFORMANCE		
PIVIS. STSTEIVI PERFORIVIAINCE	BASELINE	2020	2022	2017	2018	2019
Percent of the Person-Miles Traveled on the Interstate That Are Reliable	79.60%	61.20%	56.60%	88.4% 🗸	88.3% <b>✓</b>	91.20% 🗸
Percent of the Person-Miles Traveled on Non-Interstate That Are Reliable	-	-	55.40%	79.2% <b>✓</b>	76.7% <b>✓</b>	83.1% <b>✓</b>
Truck Travel Time Reliability (TTTR) Index	1.5	1.7	1.79	1.54 🗸	1.49 🗸	1.47 🗸

<sup>✓</sup> indicates target was met

Since New Mexico targets were adopted only for years 2019 and 2021, the 2017/2018/2019 travel time reliability is compared against these targets for roadway links that belong to the El Paso MPO area in Doña Ana and Otero Counties.

TABLE 2-16: DOÑA ANA AND OTERO COUNTY, PM3: SYSTEM PERFORMANCE

PM3: SYSTEM PERFORMANCE	NM	NM ADOPTED TARGETS		ACTUAL PERFORMANCE		
PIVIS: STSTEIVI PERFORIVIANCE	BASELINE	2019	2021	2017	2018	2019
Percent of the Person-Miles Traveled on the Interstate that are Reliable	97.00%	96.10%	95.10%	100% 🗸	100% 🗸	100% 🗸
Percent of the Person-Miles Traveled on Non-Interstate that are Reliable	90.50%	90.40%	90.40%	100% 🗸	100% 🗸	80.70%
Truck Travel Time Reliability (TTTR) Index	1.13	1.14	1.15	1.13 🗸	1.14 🗸	1.17

<sup>✓</sup> indicates target was met

#### CMAQ/AIR QUALITY

Nonattainment MPOs are required to establish targets and report progress for the performance measures related to the Congestion Mitigation and Air Quality (CMAQ) program as established in 23 CFR Part 490 (§ 490.707 and § 490.807) for onroad mobile source emissions. As of the effective date for pollutant target setting, the EPMPO was the only Carbon Monoxide (CO) and Particulate matter-10 (PM-10) nonattainment area in Texas and the only PM-10 nonattainment area in New Mexico.

Methodologies and Emission Targets for these measures have been mutually agreed upon by EPMPO, TxDOT-Transportation Planning and Programming Division and NMDOT-Planning Division. The effectiveness of the Congestion Mitigation and Air Quality Improvement Program is gauged by the following measures:

- Annual Hours of Peak Hour Excessive Delay Per Capita
- Percent of Non-SOV travel
- Total Emissions Reduction: Particulate Matter less than or equal to 10 microns (PM-10)
- Total Emissions Reduction: Carbon Monoxide (CO)

Note that EPMPO is not required to set targets for the annual Hours of Peak Hour Excessive Delay Per Capita and the Percent of Non-SOV travel until the Second Performance Period in 2022-2025.

Mid-point-4-year target and methodology has been updated (23 CFR Part 490 Subparts A, E, F, G & H) due to more reliable data available in 2018 and 2019 for CO and PM-10. The established baseline for the updated 4-year targets, which relies on historical data from 2014-2017, will remain the same. After the first two years (2018-2019) of the first performance period were available, EPMPO

updated the 4-year targets and recommended these targets to TxDOT to use for the state's on road mobile source emissions for CO and PM-10.

The Midpoint Performance Period On-road Mobile Source Emissions targets were presented to the Transportation Policy Board for approval in September 2020. The updated 4-year targets and the original 2-year and 4-year targets for Texas are presented in **Table 2-17**.



TABLE 2-17: PM3: CMAQ - TEXAS STATE TARGETS

TEXAS	BASELINE (KG/DAY)	ORIGINAL 2-YEAR TARGETS (KG/DAY)	MID-POINT CONDITION REPORT 2-YEAR TARGETS (KG/DAY)	ORIGINAL 4-YEAR TARGETS (KG/DAY)	UPDATED MIDPOINT 4-YEAR TARGETS (KG/DAY)
Total Emissions Reduction: PM-10	0.97	4.73	11.37	13.71	21.96
Total Emissions Reduction: CO	580.24	434.93	490.75	891.11	841.62

The EPMPO worked with NMDOT to develop onroad mobile source emission targets for PM-10. A cost benefit analysis methodology was used in 2018 to develop the original 2-year and 4-year emission targets for the first performance period. The same methodology was used for the update to the 4-year emissions target at the midpoint reporting period.

The established baseline was developed with the original targets that were set in 2018 and will remain the same until the development of targets

for the next performance period. Because EPMPO updated the midpoint 4-year on-road mobile source emission target for PM-10 in Texas (based on actual, rather than projected, 2018-2019 data), and because the New Mexico methodology is tied to the Texas methodology by way of the cost benefit analysis, the New Mexico 4-year on road mobile source emission target for PM-10 has also been updated. The updated 4-year target and the original 2-year and 4-year targets for New Mexico are presented in **Table 2-18**.

TABLE 2-18: PM3: CMAQ - NEW MEXICO STATE TARGETS

NEW MEXICO	BASELINE (KG/DAY)	ORIGINAL 2-YEAR TARGET (KG/DAY)	MID-POINT CONDITION REPORT 2-YEAR TARGET (KG/DAY)	ORIGINAL 4-YEAR TARGET (KG/DAY)	UPDATED MIDPOINT 4-YEAR TARGET (KG/DAY)
Total Emissions Reduction: PM-10	0.17	0.65	1.14	1.79	3.48

It should be noted that the EPMPO is currently working with NMDOT to develop a new target methodology based on available data and independent from Texas methodology. This will allow a better representation of New Mexico's project goals in terms of the CMAQ portion of Air Quality Benefits.

#### TRANSIT ASSET MANAGEMENT (TAM)

On September 21, 2018 the Transportation Policy Board approved two new MPO Planning Memorandums of Understanding (MOU), one for Texas and one for New Mexico. The MOUs outline the roles and responsibilities of the states, the MPO, and the mass transit provider, Sun Metro, in carrying out the metropolitan transportation planning process and associated performance measures. Based on the federal performance measure final rule on Transit Asset Management (TAM) issued in July 2016, MPOs are required to coordinate with transit providers to set performance targets and integrate individual transit providers' performance targets and TAM plans into planning documents. El Paso MPO reached out to the transit

providers in the region to include Sun Metro the mass transit provider for the region and requested targets. The EI Paso MPO Transportation Project Advisory Committee (TPAC) reviewed Sun Metro targets, as well as targets for Texas and New Mexico and recommended that the EI Paso MPO Transportation Policy Board (TPB) adopt the state of Texas' targets for the EI Paso MPO. Sun Metro may have agency-level targets that differ from the EI Paso MPO adopted targets. These agency-level targets may better meet their needs in planning for state of good repair for Sun Metro. EPMPO will continue to coordinate with Sun Metro to report, track, and adjust the targets over time to meet the EI Paso MPO targets.

TABLE 2-19: EL PASO TRANSIT ASSET MANAGEMENT 4 YEAR TARGETS

TRANSIT ASSET MANAGEMENT	2022 TARGET
% revenue vehicles at or exceeding useful life benchmark	<15%
% service vehicles (non-revenue) at or exceeding useful life benchmark	<15%
% facilities rated below 3 on condition scale (TERM)	<15%
% track segments with performance restrictions	N/A

As part of the FAST Act, performance measures were incorporated for transit agencies, primarily through the Transit Asset Management (TAM) assessment and planning requirements. Sun Metro's TAM plan was developed to meet that requirement. Sun Metro continuously seeks grants through the regional MPO in order to supplement the competitive and formula funding grants available from the FTA. Primarily Sun Metro applies for FHWA Congestion Mitigation and Air Quality (CMAQ) and Surface Transportation Program (STP) funding through the MPO. Funding from these grants are crucial to the agency's State of Good Repair (SGR) program and the



resulting Transit Asset Management Plan (TAM). CMAQ funds provide for new and replacement bus funding, to include vehicles needed for new and extended services. Funding also allows for new or enhancements of terminals and stops to include accessibility and passenger amenities if associated with new or extended services. STP provides similar funding but without the new or extended service requirements. This grant funding not only permits Sun Metro to provide efficient and dependable service but supplements funding from other sources necessary to maintain State of Good Repair standards. In FY2019 CMAQ, the federal funding portion obtained through the regional MPO, will total approximately \$5.5M for operating assistance (Dyer and Alameda BRT's and Streetcar services) plus replacement funding for three buses. As of October 2018 Sun Metro had been awarded approximately \$7.1M of funds for new revenue vehicles that were unspent or pending, including grants obtained through the CMAO program and other grant programs.

# PUBLIC TRANSPORTATION AGENCY SAFETY PLAN (PTASP)

On September 18, 2020 the El Paso MPO adopted the mass transit provider Sun Metro's PTASP. Sun Metro developed their PTASP in compliance with the requirements on 49 CFR 673.11(a) (1-6). The performance measures adopted in this PTASP for fix route, streetcar and paratransit per every 100,000 miles are for:

- Fatalities
- Injuries
- Safety Events
  - Accidents
  - Incidents
  - Occurrences
- System Reliability

TABLE 2-20: PERFORMANCE MEASURES ADOPTED IN THE PTASP

PERFORMANCE MEASURES-FIXED ROUTE PER		FISCAL YEAR				
E	VERY 100,000 MILES	2019	2020	2021	2022	
Fatalities		0	0	0	0	
Injuries		50	45	40	35	
	Accidents	178	50	45	45	
Safety Events	Incidents	-	78	70	65	
	Occurrences	-	50	45	45	
System Reliability (Mean Distance Between Failures)		82,864 miles	90,000 miles	95,000 miles	100,000 miles	

PERFORMANCE MEASURES-STREETCAR PER		FISCAL YEAR				
E	VERY 100,000 MILES	2019	2020	2021	2022	
Injuries		9	7	6	5	
	Accidents	2	1	1	0	
Safety Events	Incidents	9	7	6	5	
	Occurrences	9	7	6	5	
System Reliability (Mean Distance Between Failures)		2,879 hrs.	2,900 hrs.	2,950 hrs.	3,000 hrs.	

PERFORMANCE MEASURES-PARATRANSIT PER		FISCAL YEAR				
E۱	VERY 100,000 MILES	2019	2020	2021	2022	
Injuries		8	8	6	5	
	Accidents	20	17	15	12	
Safety Events	Incidents	25	22	19	15	
	Occurrences	32	25	23	20	
System Reliability (Mean Distance Between Failures)		87,019 miles	88,000 miles	90,000 miles	91,000 miles	

# ADDRESSING PERFORMANCE IN RMS 2050

RMS 2050 MTP includes performance measures beyond those that are required by the final rules. These supplemental performance measures are quantifiable indicators of whether the policies and proposed program of projects in the RMS 2050 MTP help the region achieve the desired outcomes articulated in the adopted goals and objectives. This approach provides decision makers with the ability to objectively set policies and prioritize projects based on a project's anticipated outcomes and whether those outcomes truly address the region's transportation challenges by achieving the local, state and national goals and objectives.

The use of an outcome-based process using objective measures in the planning process also allows the MPO to track transportation system performance as the RMS 2050 MTP is implemented by tracking project performance after projects are constructed. This tracking of project performance will help the MPO determine whether the project's actual, real-world performance matches the results expected during the planning process.

This approach also allows the EPMPO to meet its federal mandate for a process of continuous improvement of both the transportation system and the planning process itself.

planning-level performance measures recommended for RMS 2050 MTP (Table 2-21) combine performance measures developed in collaboration with local stakeholders based on the adopted goals and objectives with performance measures required by the USDOT through federal regulations. In general, these performance measures fall into two broad categories. The first category includes those measures (such as mobility and accessibility) that can be modeled (using the MPO travel demand model of the regional transportation system) and quantified at the project level to evaluate the specific performance outcomes of individual projects or packages of projects. The second category includes measures (such as environmental sustainability) whose outcomes are more appropriately measured at the regional transportation system level (and which cannot be discretely modeled by the El Paso travel demand model).



**TABLE 2-21: GOALS AND METRICS** 

GOALS	PLAN PERFORMANCE MEASURES	NATIONAL PERFORMANCE MEASURES		
	Nives have after a size to the attinuous department	- Crashes per 100 Million Vehicle Mile Traveled		
Safety	- Number of projects that include safety enhancements located near crash hotspots	- Total crashes resulting in fatality or incapacitating injury		
		- Total crashes involving cyclists and pedestrians		
Maintenance & Operations	- Number of projects that repair or replace	- Number of deficient bridges		
	deficient bridges or pavements	- Lane miles of deficient pavement		
	- Travel Time Index (Actual Travel Time Divided by Non-Congested Travel Time)	- Percent Miles Traveled on Network that are reliable		
Mobility	- Annual hours of delay (millions)	- Peak Hours Excessive Delay Per Capita		
	- Commute times from Environmental Justice zones (min)	- Truck Travel Time Reliability Index (TTTRI)		
Accessibility & Travel Choice	- Percent of jobs, key destinations, and population within ½ mile of high-quality, rapid transit	- Percent non-SOV (single occupancy vehicle) trips		
	- Average trip costs			
Custoinabilitus	- Total Vehicle Miles Traveled (VMT)	- Estimated Max Daily CO Emissions (Tons/ Day)		
Sustainability	- VMT per capita (regional)	- Estimated Max Daily PM10 Emissions (Tons/Day)		
	- Annual hours of delay along major freight corridors	-		
Economic Vitality	- Average wait times by mode at POEs	-		
	- Number of projects that improve operations or multimodal access at current or future POEs	-		
Quality of Life	- The indicator for this goal is a summary of performance on each goal for each alternative relative to the other alternatives			
Implementation	- Number of projects ready for implementation based on the Project Readiness Report	-		

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**APPENDIX C: CONSULTATIVE PROCESS** 

Metropolitan transportation planning is a cooperative process conducted by the MPO in conjunction with the Texas and New Mexico DOTs, transit operators, stakeholders, and the public to create a vision for the future of the community. The process, which is prescribed by federal regulations, is designed to assist the MPO in prioritizing short-and long-term investments in the regional transportation system over the next 26 years.

23 U.S.C. 134(g) & (i)(5)-(6) and 23 CFR 450.316(b-e) set forth requirements for consultation in developing the MTP and TIP. Consultation is also addressed specifically in connection with the MTP in 23 CFR 450.324(g)(1-2) and in 23 CFR 450.324(f)(10) related to environmental mitigation.

In developing the MTP and TIP, the MPO shall, to the extent practicable, develop a documented process that outlines roles, responsibilities, and key decision points for consulting with other governments and agencies as described below:

- Agencies and officials responsible for other planning activities (State, local, economic development, environmental protection, airport operations, or freight)
- Other providers of transportation services

#### **Regional Planning Environment**

Local Governments and Tribe: Within the El Paso MPO region, there are seven municipalities and one county in Texas, two municipalities and two counties in New Mexico, and one tribal government. Local governments and the tribe participate in the transportation planning process via membership in TPAC and/or TPB, as well as through regional stakeholder groups organized around various topics. The MPO is also a participant in these groups as further described below.

Transit Entities: SunMetro is the oldest transit provider in El Paso County, primarily serving the City of El Paso, but with a coverage area extending slightly eastward and west of the municipal boundary. It provides both fixed-route and paratransit services. SunMetro serves on TPAC and TPB, and participates in WTEP. El Paso County Transit serves El Paso County outside El Paso city limits. The MPO contributed to its route planning studies and has funded its current incarnation, EPATS, since 2021. The City of Socorro operates a small paratransit fleet. A nonprofit organization, Project Amistad provides paratransit services within the El Paso region. SCRTD provides fixed-route services in Southern New Mexico, with connections into the City of El Paso via SunMetro transit centers. El Paso County and the smaller cities within the El Paso MPO, excluding the City of Socorro, participate in the EPATS-LGC, and the both the MPO and SunMetro participate via exofficio membership on the LGC board of directors. The MPO coordinates with all the local paratransit providers within our region through administration of the FTA 5310 funding program, which provides funds for paratransit capital purchases and operations.

*El Paso Airport:* The El Paso International Airport is owned and operated by the City of El Paso. It has its own Capital Improvements Plan separate from the City of El Paso, which contains its planned infrastructure improvements, to include transportation. It is overseen by a division of EPIA staff. The El Paso International Airport director serves on TPB.

The Rio Grande Council of Governments (RGCOG): RGCOG is a voluntary association of local governments formed under Texas law. It includes: El Paso, Hudspeth, Culberson, Jeff Davis, Presidio, and Brewster Counties in Texas, and Doña Ana County

and its local governments in New Mexico. The Rio Grande COG is active in local planning endeavors in the El Paso Region. It participates in several regional stakeholder groups and is working with the smaller communities within El Paso County to offer technical assistance and guidance on infrastructure projects and funding, to include transportation. *The Camino Real Regional Mobility Authority (CRRMA):* The CRRMA is a political subdivision of the State of Texas, created to give El Paso communities flexibility in funding their local transportation needs. The CRRMA collaborates with the MPO and local governmental authorities to assist in the development and construction of infrastructure projects that help address regional congestion problems.

The Texas Commission on Environmental Quality (TCEQ): The Texas Commission on Environmental Quality is the environmental agency for the State of Texas. It has oversight over air quality monitoring in the State of Texas, in compliance with the Federal Clean Air Act's National Ambient Air Quality Standards. The MPO coordinates with TCEQ in its congestion and air quality analyses, Congestion Management Process Document, and modeling activities associated with the Metropolitan Transportation Plan.

The New Mexico Environment Department (NMED): NMED enforces state regulations and federal laws relating to protection of the environment, resources, and public health and safety. The MPO coordinates with NMED in its congestion and air quality analyses, Congestion Management Process Document, and modeling activities associated with the Metropolitan Transportation Plan.

**TXDOT:** The TxDOT El Paso District office participates in the TPAC and TPB and works closely with the MPO on its project prioritization and long-range planning efforts. Additionally, MPO staff coordinates as needed with TXDOT Transportation Planning and Programming for all planning documents to include UPWP, TIP, and MTP. Monthly meetings are conducted with TXDOT Finance Division to ensure MPO can track project transactions and funding reconciliation for Categories 5, 7 and 9 of the TXDOT UTP.

**NMDOT:** The NMDOT District 1 office participates in the TPAC and TPB, and works closely with the MPO on its project prioritization and long-range planning efforts.

FHWA and FTA: The MPO works closely with FHWA and FTA field representatives in both Texas and New Mexico to ensure that MPO work is carried out in a timely manner and to the requirements of relevant federal regulations. The MPO schedules a monthly coordination meeting with FHWA, FTA, and state DOT representatives to ensure clear communication.

International Bridges Steering Committee: The International Bridges Steering Committee is hosted by the City of El Paso and is comprised of public and private stakeholders on both sides of the international border to facilitate coordinated problem-solving and decision-making. Its participants include GSA, CBP, Texas DPS, New Mexico Border Authority, local governments in both the United States and Mexico, CRRMA, the El Paso MPO, the El Paso delegation to the Texas State House of Representatives and Senate, the El Paso region's representatives in U.S. Congress, the Mexican Consulate in El Paso, the Chihuahua state government, local stakeholder groups like the El Paso Community Foundation, and the Border Industrial Association.

**UTEP:** As one of the largest public land-owners and employers in the El Paso region, UTEP has a significant presence. A member of its leadership serves on TPAC.

**Fort Bliss:** Planning and infrastructure activities at the military base are conducted by its garrison command. Fort Bliss and TXDOT conduct monthly coordination meetings, which the MPO attends.

#### MTP and TIP coordination and consultation process:

• *MTP:* The development process begins with visioning sessions conducted with various groups of community stakeholders and the general public. Projects are selected in consultation with the local municipalities and state department of transportation district offices. They are scored utilizing Decision Lens software, with criteria and weights assigned based upon the MPO's adopted project selection criteria. TPB approves the project selections following stakeholder outreach.

Once the project selections have been approved, a system-level analysis is performed to determine the potential environmental impacts of the proposed projects. This analysis is performed by the MPO, utilizing environmental and cultural resources data from various sources including the Federal Emergency Management Agency (FEMA), the National Register of Historic Places, and state and federal agencies via online mapping tools. This analysis includes consideration of environmental justice factors, identified via the Environmental Justice Index. The results of this analysis are presented to TPAC and TPB as part of the MTP system level evaluation.

A Plan document is then drafted based on the information developed in the project selection and systems level analysis. Following a public involvement process consistent with the MPO's adopted Public Participation Plan that includes public outreach, stakeholder consultation, and a public comment period, the document is adopted by the TPB. Following adoption and conformity review, this MTP serves as the basis for the TIPs developed for the years covered by the MTP. More information is presented in the following section about specific outreach conducted for the adoption of recent MTPs.

• TIP: TIPs that occur in conjunction with the adoption of an MTP go through a more robust development process than those that do not coincide with an MTP adoption. TIPs that are developed in conjunction with MTPs have a more involved and robust development process than those that occur between MTP development cycles. A project call is held, and coordination meetings are conducted with stakeholders to determine regional priorities. TIPs developed between MTP adoptions function more as continuations of the implementation of the most recently adopted MTP, and are limited to projects from the current network year as developed in that document. Individual meetings are held with each municipality and transit provider in the MPO region to confirm their projects. Cost estimates are updated, and projects are moved as required to achieve fiscal constraint. In all TIPs, once the draft, fiscally constrained list is developed, communication is held first with each entity with projects in the list, and then with TPAC and TPB to finalize and adopt the TIP project list. Once the project list is adopted, the MPO conducts analysis of the proposed projects' likely air quality impacts and how they are anticipated to impact the MPO's adopted performance measures. This information is then compiled into the TIP

document, which is brought to TPAC and TPB following a thirty-day public comment period.

#### Specific Collaboration Conducted for our Adopted Plans:

#### **RMS 2020 Plan Outreach**

- o Roles:
  - Lead: MPO
    - Conducted analysis, created RMS 2020 document
  - Stakeholders: EP County, EP County Transit, COEP, Horizon, Socorro, Vinton, San Elizario, Ysleta del Sur, Anthony, NM, Sunland Park, NM, Dona Ana County, Sun Metro, TXDOT and NMDOT local district offices
    - Provided input, discussions on funding prioritization
  - Adoption: TPAC and TPB
- Responsibilities:
  - Data gathering and analysis: MPO
  - Project Selection: MPO in coordination with local municipal governments and state department of transportation district offices
  - Plan adoption: TPB
- Decision points:
  - *Plan goals:* presented to TPB August 19, 2019. Presentation included purpose of the document and a tentative schedule.
  - Project selection: Project selection criteria was determined based on the previously approved project selection process (approved by the TPB June 6, 2014). The approved criteria included the National Goals Carbon Mitigation Plan strategies as well as project readiness. Scores were developed by MPO staff and then subsequently given to each project based on these criteria.
  - Several internal MPO meetings were conducted from October-November 2019 to review Project Request Forms for priority projects submitted by sponsoring entities to determine the scoring of criteria. Final scoring was divided between local government projects and TXDOT projects and presented to the TPAC and TPB along with the recommendation to adopt the RMS 2020 Plan.
  - Project list presented to TPB: October 18, 2019, as a report item
  - Plan adoption: December 13, 2019
- Meetings conducted for RMS 2020 Outreach:
  - Village of Vinton, RMS 2020 Strategic Plan
  - CRRMA Board, RMS 2020 Strategic Plan
  - Texas Society of Professional Engineers, RMS 2020
  - Congresswoman Escobar, RMS 2020
  - Rotary Club of El Paso, RMS 2020

- Mobility Coalition of the El Paso Chamber, RMS 2020
- Texas Secretary of State, RMS 2020
- Hispanic Chamber of Commerce of El Paso, RMS 2020

#### RMS 2050 Plan (MTP) Outreach:

- Roles:
  - Lead: MPO
    - Conducted analysis, created RMS 2050 MTP document
  - Stakeholders: EP County, EP County Transit, COEP, Horizon, Socorro, Vinton, San Elizario, Ysleta del Sur, Anthony, NM, Sunland Park, NM, Dona Ana County, Sun Metro, TXDOT and NMDOT local district offices, general public
    - Provided input, discussions on funding prioritization
  - Adoption: TPAC and TPB
- Responsibilities:
  - Data gathering and analysis: MPO
  - Project Selection: MPO in coordination with local municipal governments and state department of transportation district offices
  - Plan adoption: TPB

#### **Decision points:**

- Visioning process: A virtual public visioning workshop was conducted during the summer 2020 to identify the priorities and needs of the region. (Refer to Appendix E of the RMS 2050 MTP for more information)
- Additionally, after obtaining demographic information from the US Census Bureau and Texas Demographic Center, a Delphi process was conducted to determine likely future growth patterns in the region and inform the development of the RMS 2050 Travel Demand Model. Invitation letters were sent to approximately 94 community leaders to participate in the Delphi panel. Recipients represented entities throughout the El Paso region with expertise in a variety of areas. Of those invited, 74 accepted the invitation. These panel members were recruited from regional government agencies; community organizations; the real estate and development communities; area employers; financial institutions; transit agencies. educational institutions: other organizations. Invitations were sent to the following community agencies and organizations. For more detailed information on the Delphi process, please see Appendix F-TDM Demographic Development.pdf (elpasompo.org)
- Project selection: The proposed project evaluation and prioritization process was presented to the TPAC and TPB in July 2020. This included the draft criteria to be used for the projects.
   In August 2020, the TPB members participated in a pairwise

comparison to determine the relative weights of the criteria which was recommended by the TPAC at the August 5, 2020 meeting and approved by the TPB on September 18, 2020. MPO staff coordinated with sponsoring entities to submit updated Project Request Forms for their proposed projects to evaluate utilizing Decision Lens.

- Project list adoption: TPAC recommended for approval at their September 1, 2021 meeting, and TPB approved the fiscally constrained list at their September 17, 2021 meeting
- Plan adoption: March 25, 2022
- o *RMS 2050 Environmental Analysis:* For the system level analysis of potential environmental impacts, MPO staff gathered environmental and cultural resources data from various sources including the Federal Emergency Management Agency (FEMA), the National Register of Historic Places, and state and federal agencies via online mapping tools.

The systems-level analysis of potential environmental impacts is intended to function as a resource for agencies and elected officials responsible for project implementation. The results of the analysis were present during TPAC and TPB presentation of the final document.

In addition, as stated in the MTP, the Environmental Justice populations (low-income and minority groups) were identified via the Environmental Justice Index, and the capacity expansion projects that may impact identified Environmental Justice areas were presented to TPAC and TPB as part of the MTP system level evaluation.

- outreach: RMS 2050 Plan coordination required outreach and coordination for the visioning exercise during the COVID-19 Pandemic and its virtual public engagement environment. The MPO reached out to multiple entities for virtual, one-on-one meetings and charettes. The MPO also conducted virtual public meetings at key points in the development process. The following meetings were also held with area stakeholders towards this endeavor:
  - American Council of Engineering Companies, RMS 2050 visioning
  - Greater El Paso Association of Realtors, RMS 2050 MTP
  - University of Texas at El Paso ASPIRE Cohort, RMS 2050

#### TIP 2021 - 2024:

TIPs that do not share implementation years with MTP updates, like the 2021 – 2024 TIP, function more as continuations of the implementation of the most recently adopted MTP, and are limited to projects from the current network year as developed in that document. Individual meetings are held with each project sponsoring entity in the MPO region to confirm their projects. Cost estimates are updated, and projects are moved as required to achieve fiscal constraint. Once the draft fiscally constrained list is developed, communication is held first with each entity with projects in the list, and then with TPAC and TPB to finalize the TIP project list.

o Roles:

- Lead: MPO
  - Conducted analysis, created 2021 2024 document
- Stakeholders: EP County, EP County Transit, COEP, Horizon, Socorro, Vinton, San Elizario, Ysleta del Sur, Anthony, NM, Sunland Park, NM, Dona Ana County, Sun Metro, TXDOT and NMDOT local district offices
  - Provided input, discussions on funding prioritization
- Adoption: TPAC and TPB

#### Responsibilities:

- Data gathering and analysis: MPO
- Project Selection: MPO in coordination with local municipal governments and state department of transportation district offices
- Plan adoption: TPB

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#### Decision points:

- Project list approval:
  - 21-24 TIP: was approved as the implementation stage for part of RMS 2020 approval on December 13, 2019
- Plan adoption: TPB date:
  - 21-24 TIP: May 22, 2020

#### TIP 2023 - 2026

TIP 2023 – 2026 was developed in conjunction with RMS 2050 Plan and the public processes for both documents were intertwined to ensure proper coordination between the documents.

#### Roles:

- Lead: MPO
  - Conducted analysis, created 2023 2026 document
- Stakeholders: EP County, EP County Transit, COEP, Horizon, Socorro, Vinton, San Elizario, Ysleta del Sur, Anthony, NM, Sunland Park, NM, Dona Ana County, Sun Metro, TXDOT and NMDOT local district offices
  - Provided input, discussions on funding prioritization
- Adoption: TPAC and TPB
- Final Approval: TXDOT, NMDOT, FHWA, FTA

#### Responsibilities:

- Project Call: MPO
- Data gathering and analysis: MPO
- Project Selection: MPO in coordination with local municipal governments and state department of transportation district offices
- Plan adoption: TPB

#### Decision points:

 Project call: Through the project call conducted for the development of the RMS 2020 Plan and the RMS 2050 MTP, MPO staff conducted individual meetings with sponsoring entities to identify the priority projects to be implemented during the years of the 2023-2026 TIP. The meetings with each of the sponsoring entities also allowed the MPO to coordinate in the review of the scope of the projects to determine cost estimates and the eligible funding categories.

- Project selection: Once priority projects had been identified, all projects submitted in the project call were evaluated and scored utilizing Decision Lens software. The scoring of the projects in Decision Lens was reviewed with each of the sponsoring entities. MPO staff conducted several workgroup meetings with representatives from the TPAC to review the draft project list during the summer of 2021 and determine scheduling of the projects to ensure fiscal constraint.
- Project list adoption: Project list for the TIP was presented through the review of the RMS 2050 MTP project list. TPAC recommended for approval at their September 1, 2021 meeting, and TPB approved the fiscally constraint list at their September 17, 2021 meeting.
- Plan adoption: March 25, 2022.
- Outreach: A 2023 2026 working group was convened to prioritize projects and develop a consensus-based fiscally constrained project list for the 2023 – 2026 TIP. The working group was comprised of representatives of entities with sponsored projects within the proposed document. The following entities participated in the working group: ELP District TXDOT, COEP, EP County, PDN Foundation, Socorro, Horizon, Vinton, Sun Metro, NMDOT.

# Ongoing public involvement and coordination:

# MPO public hearings:

- Transportation Policy Board: comprised of local elected leadership, state legislative representatives, El Paso Airport leadership, transit provider leadership, and TXDOT and NMDOT district senior leadership
- o Transportation Policy Advisory Committee: comprised of local elected leadership, technical staff, TXDOT and NMDOT district leadership, transit provider technical staff, local university leadership, and tribal government
- Executive Committee: comprised of local elected leadership

### Project sponsor public meetings/hearings:

MPO staff attends public meetings and public hearings conducted by project sponsors to provide comment and to aid with information about MPO processes.

#### Recurring coordination meetings

- Monthly coordination meetings with the City of El Paso & TxDOT District Office
- Bi-weekly coordination meetings with TxDOT District Office
- Monthly coordination meetings with El Paso County Public Works staff

- Monthly coordination meetings with FHWA/FTA/state DOTs
- Monthly District Design Review meetings
- Monthly TXDOT/Ft Bliss coordination meetings

Regularly scheduled meetings for local entities which MPO staff attends regularly

- o Camino Real Regional Mobility Authority Board of Directors
- El Paso Area Transportation Services Local Government Corporation Board
- El Paso County Commissioners Court
- o El Paso City Council
- Sun Metro Mass Transit Board
- West Texas/El Paso Regional Transportation Coordination Committee
- Project management meetings for the upcoming Nuevo Hueco Tanks and Arterial One construction projects

#### Regional coordination groups in which the MPO participates

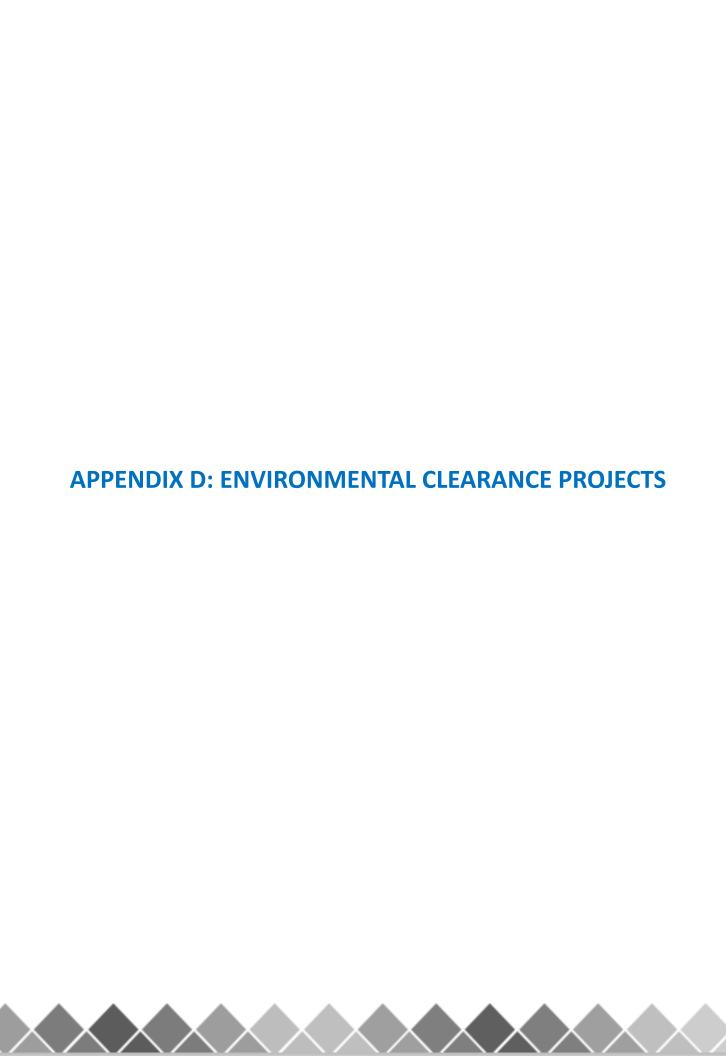
- Borderland Expressway Coalition
- Quarterly Traffic Management Team meetings
- Mission Trails Alliance stakeholder group comprised of leadership and technical staff from El Paso County, Rio Grande COG, El Paso Chamber of Commerce, El Paso Community Foundation, City of El Paso, City of Socorro, City of San Elizario, Mission Trails Historical Society, TXDOT, Ysleta del Sur Pueblo tribal government

Meetings which MPO staff does not regularly attend, but does habitually review the posted agendas to keep informed on their activities:

- City of El Paso Bicycle Advisory Committee
- Mesilla Valley MPO Policy Board, Technical Advisory Committee, and Bicycle and Pedestrian Facilities Advisory Committee
- South Central Regional Transit District Board of Directors

#### Outreach conducted in conjunction with other regional plans:

- o El Paso Chamber, Border Transportation Master Plan
- Consejo de Desarrollo Económico Regional (CODER) in Ciudad Juárez, Border Transportation Master Plan
- Binational Border Infrastructure Roundtable, Cross-Border Coordination



#### **ENVIRONMENTAL CLEARANCE PROJECT LIST**

Appendix D contains a list of projects which are undergoing environmental analysis consistent with early project development. The intent of this appendix is to identify projects that are not planned for construction within the four-year time–frame of the Transportation Improvement Program (TIP).—Consistency with the RMS 2050 MTP will be verified as alternatives are explored in these studies and environmental clearance efforts.

The Federal Highway Administration (FHWA) requires these projects to be referenced in the TIP to complete the feasibility and environmental analysis phases. This appendix contains projects that are shown in the RMS 2050 MTP and not programmed in the RMS 2023-2026 TIP. This appendix in no way implies that these projects are programmed in the RMS 2023-2026 TIP.

**TABLE 3-1: ENVIRONMENTAL CLEARANCE PROJECT LIST** 

MPO ID	CSJ	SPONSOR	PROJECT NAME	LIMITS FROM	то	DESCRIPTION	FISCAL YEAR
I063X-CAP	CSJ 2121-02-166	TXDOT	Downtown10 Executive Center to SL478Copia	Executive Center	SL478 Copia	Widen from 3/5 to 5/7 lanes each direction, add 2-lane frontage roads each direction, ramp and operational improvements, and bike/ped paths	2029
I061X-CAP-2	CSJ 2121-02-177	TXDOT	IH 10 Frontage Roads from Executive to Sunland Park	Executive	Sunland Park	Construct 2-lane Eastbound Frontage Road, Frontage Road Improvements and Ramp Improvements	2033
P002X-CAP-1	0924-06-621	EPCounty	Tierra Este Extension- Phase 1	Cozy Cove Ave.	Pellicano Dr.	Build 2-lane roadway (1 lane in each direction with raised median). Existing 2-lane section from Windemere Dr. to Vista del Sol Dr. will remain the same	2027
P002X-CAP-2	0924-06-621	EPCounty	Tierra Este Extension- (Arterial 1) Phase 2	Cozy Cove Ave.	Pellicano Dr.	Widen from 1-lane to 2-lanes each direction from Cozy Cove Ave. to Montwood Dr., and from 1-lane to 3-lanes each direction from Montwood Dr. to Pellicano Dr. with bike lanes	2028
A434X-CAP-1	0924-06-637	EPCounty	Bob Hope Ext Phase 1	Loop 375	Mission Ridge Blvd (Arterial 1)	Build 6- Lane divided with bike lanes	2028



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