



SURPRISE TRANSPORTATION MASTER PLAN

**APRIL
2026**

**TECHNICAL MEMORANDUM #2
VISIONING FOR A CONNECTED SURPRISE**

INTRODUCTION

The City of Surprise Transportation Master Plan (TMP) will provide a coordinated vision of a multimodal transportation network within the Surprise Municipal Planning Area (MPA). The TMP will recommend a network of all transportation modes that enhances the mobility and accessibility of people and goods.

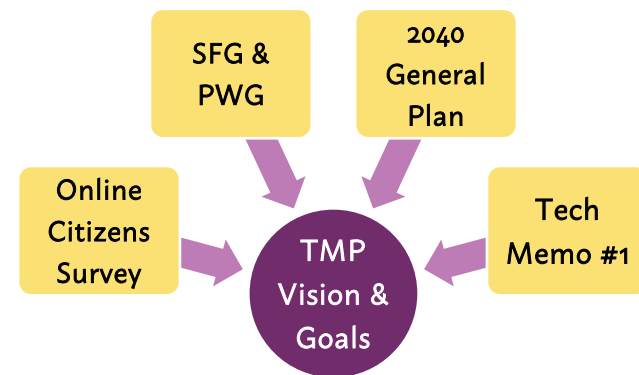
The Surprise MPA and City limits are experiencing considerable growth, which is creating increasingly high intersection and segment congestion, and vehicle delay. Stakeholder and public coordination / input is an especially important component of this study to create a shared and consensus-based vision of the future multimodal transportation network.

GOALS AND OBJECTIVES

The primary objective of the Surprise TMP is the development of a near-term (2030), mid-term (2040) and long-term (2050) multimodal transportation network that will place emphasis on the safe and efficient movement of people, goods, and services in a proactive and fiscally responsible manner. The multimodal transportation network improvements for the horizon years will include rail, roadway, functional classifications, cross sections, operations, facility capacity, freight, bike/pedestrian facilities and jurisdictional responsibility.

VISION AND GOAL STATEMENTS

The Vision and Goal statements were shaped through a balanced integration of community input, policy guidance, and technical analysis. Feedback from the Project Work Group (PWG) and Stakeholder Focus Group (SFG) provided on-the-ground perspectives from local partners and subject-matter experts, while the Surprise 2040 General Plan offered overarching direction on long-term growth priorities. Complementing this, the TMP's Online Citizens Survey captured the broader community's transportation needs and priorities, and the analysis and findings from Tech Memo #1 supplied data-driven insights into current system performance.



VISION STATEMENTS

SURPRISE 2040 GENERAL PLAN VISION

Against the picturesque backdrop of the White Tank mountains, Surprise is a distinct community that provides a high-quality life for residents of all ages. A range of rural to urban neighborhoods are safe and aesthetically pleasing. Community-wide mobility and accessibility is balanced with resource conservation to provide abundant greenways and open spaces for people to enjoy. Through responsible growth, the City's historic origins are embraced, while thriving destinations provide cultural, employment, and shopping opportunities. This is complemented with well-planned infrastructure that creates a lasting foundation for the continued benefit of Surprise residents and visitors.

SURPRISE TRANSPORTATION MASTER PLAN (TMP) VISION

Surprise is a connected city where a complete, multimodal transportation network integrates local and regional systems to support development; where people, goods, and vehicles move safely and efficiently across all modes of travel across the region; where traffic flow is actively managed through network planning and smart infrastructure investment; and where emerging transportation technologies are embraced to enhance mobility for all ages and abilities.

GOAL STATEMENTS

GOAL 1: FOSTER ROADWAY EXPANSION AND ADDRESS CONGESTION MITIGATION

The City of Surprise will proactively manage growth and congestion by expanding and completing the roadway network, strengthening regional and local connectivity, applying demand management strategies, and working with the development community to ensure that new developments are constructing the required transportation infrastructure to serve the developments prior to occupancy. Transportation investments will focus on reducing congestion, supporting economic vitality, and ensuring that people and goods move reliably while minimizing impacts on surrounding neighborhoods.

SUPPORTING POLICIES:

- Work with State and Regional partners on the following major regional transportation initiatives:
 - Advancement of Loop 303 and US60 full system interchange project, including grade separation of 163rd Avenue from US60
 - Loop 303 and 155th Avenue traffic interchange project including completion of arterial roadway connections
 - Establishment of a US60 Corridor Improvement project related to the recommendations from the US60 Corridor study
- Expand roadway capacity and improve regional access by supporting construction of regional freeways, interchanges, and major corridor improvements that connect Surprise to the greater region.
- Complete missing and incomplete links in the arterial roadway network to improve connectivity within the city and reduce congestion on the arterial network.
- Establish connected collector and local street systems in new and existing development to improve traffic circulation and relieve pressure on arterial roadways.
- Require any new developments or redevelopment projects coming into the city to construct, restore and reconnect the traditional street grid by planning for the one-mile spacing of arterial roadways.

- Support efficient and safe freight movement in Surprise through strategic partnerships, coordinated access planning, and dedicated truck routes that minimize impacts on residential areas and that strengthen Surprise’s regional economic competitiveness.
- Implement transportation demand management strategies, including telecommuting, flexible work schedules, and employer-based trip reduction programs, to reduce peak-hour congestion and improve system efficiency.
- Utilize intelligent transportation systems and operational strategies to maximize the efficiency and reliability of the existing and planned roadway network.

TMP INITIATIVES

1. Development of the transportation network across all horizon years to ensure preservation of ROW along future corridors and drive development decisions
2. Establishment of a prioritized CIP investment plan identifying immediate, short-term, mid-term, and long-term infrastructure improvements
3. Identification of new and strategic funding sources outside of the city’s general fund to aid in delivery of the prioritized CIP investment plan
4. Explore opportunities for development of an additional east-west arterial roadway connection to help mitigate traffic along Bell Road
5. Identification of the future traffic signal network and development of strategic evaluation criteria used to rank future investments

GOAL 2: ENHANCE THE EXISTING MULTIMODAL TRANSPORTATION SYSTEM

Develop and maintain a complete, integrated, and accessible multimodal transportation system that supports travel by walking, bicycling, transit, electric micromobility (e-bikes/e-scooters), and personal vehicles. Transportation and land use decisions will be coordinated to expand travel choices, improve access to daily needs, and reduce dependence on automobiles for residents of all ages and abilities.

SUPPORTING POLICIES

- Integrate transportation and land use planning to encourage compact, walkable, and mixed-use development patterns that reduce travel distances and external trip demand.
- Prioritize transportation investments that support infill development, redevelopment, and designated growth areas consistent with adopted character area plans.
- Promote transit-supportive and transit-oriented development by aligning zoning, infrastructure, and access improvements along existing and future transit corridors.
- Apply complete streets principles to ensure streets are designed, operated, and maintained to safely accommodate pedestrians, bicyclists, transit users, and motorists of all ages and abilities.
- Expand and connect a citywide pedestrian and bicycle network, including shared-use paths, greenways, and low-stress bicycle facilities, to support both recreational and everyday travel.
- Close sidewalk, trail, and bicycle network gaps through new development requirements and targeted capital improvements to improve system continuity.
- Promote walking and bicycling through education, outreach, wayfinding, and Safe Routes to School programs that enhance comfort, awareness, and user confidence.
- Plan a citywide local transit system that is consistent with development patterns and connects all neighborhoods, employment centers, schools, and retail.

- Explore flexible and innovative transit services, including microtransit, and on-demand rideshare services, to meet the needs of the city and connect to surrounding communities.
- Explore and identify possible external funding opportunities to help offset the financial impact of public transit to the city's general fund.
- Require incoming residential and non-residential development to connect to existing (or planned) multimodal systems identified in the Surprise TMP.

TMP INITIATIVES

1. Development of comprehensive street typologies that serve all modes and promote connectivity and safety along the transportation network
2. Conduct a comprehensive analysis of current transit services and development of scalable and financially sound approach to a citywide transit system
3. Establish a framework for the development of a trail system with safe on-street non motorized crossings, including the McMicken Dam and Trilby Wash corridors

GOAL 3: IMPROVE SAFETY ACROSS ALL MODES

Prioritize safety as a fundamental element of the transportation system by reducing crashes, serious injuries and fatalities, and creating streets that are safe and comfortable for all users. Ensure safety investments are data-driven, location specific, and focused on protecting all road users while supporting efficient movement across all modes.

SUPPORTING POLICIES

- Identify and prioritize safety improvements at intersections and corridors with a history of crashes, with particular attention to pedestrians, bicycles, motorcycles, non-motorized modes and other vulnerable users.
- Improve safety and accessibility at arterial, rail, canal, and wash crossings through enhanced treatments and grade-separated facilities where feasible.
- Implement proven, location specific safety countermeasures such as protected intersections, pedestrian refuge islands, leading pedestrian intervals, roundabouts, and elimination of sidewalk gaps.
- Apply traffic calming and speed management strategies throughout Surprise.
- Use data-driven approaches, including Road Safety Audits and crash analysis, to inform project prioritization and design decisions.

TMP INITIATIVES

1. Creation of a Transportation Safety Action Plan
2. Establishment of a school safety program that considers future pedestrian and bicycle safety improvements around schools
3. Identify potential funding opportunities to mitigate safety concerns along the transportation network

GOAL 4: INCORPORATE EMERGING TECHNOLOGIES

Strategically plan for and implement robust emerging transportation technologies that enhance mobility, safety, and efficiency for Surprise residents and business owners. The city will leverage innovation, data, and regional partnerships to modernize infrastructure, prepare for evolving travel behaviors, and ensure that technology investments deliver measurable benefits to residents, businesses, and visitors.

SUPPORTING POLICIES

- Deploy intelligent transportation systems and operational technologies to improve traffic flow, travel information, and emergency response across the transportation network.
- Support the expansion of electric vehicle charging infrastructure and facilities on public and private property for micromobility, ride-hailing, and shared mobility services throughout the city.
- Plan for and accommodate emerging technologies such as connected and automated vehicles through adaptive infrastructure, land use planning, and regulatory frameworks.
- Leverage partnerships, pilot programs, and grant opportunities to test, implement, and scale emerging transportation technologies that improve mobility and system efficiency.
- Enhance asset management systems and software to efficiently plan and program to maintain aging infrastructure.

TMP INITIATIVES

1. Update the city's Intelligent Transportation Systems Strategic Plan
2. Establish a formal evaluation framework for identifying and selecting software or systems that enhance prioritization of traffic signal upgrades and pavement preservation efforts.