2019 MODOC REGIONAL TRANSPORTATION PLAN

SHORT AND LONG RANGE
20 YEAR PLANNING HORIZON
YEARS 2019-2039

PREPARED BY: THE MODOC COUNTY TRANSPORTATION COMMISSION ADOPTED: DECEMBER 3, 2019

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List of Common Acronyms

Acronym		Agency/Organization/Definition					
	BIA	Bureau of Indian Affairs					
	BTA	Bicycle Transportation Account					
	CalACT	California Association for Coordinated Transportation					
	CALCOG	California Association of Councils of Governments					
	Caltrans	California Department of Transportation					
A-D	CSAC	California State Association of Counties					
	CTC	California Transportation Commission					
	CTSA	Consolidated Transportation Service Agency					
	DOT	Department of Transportation (Fed, State, some counties)					
	DTR	District Transit Representatives					
	FAA	Federal Aviation Administration					
	FAS	Federal Aid System					
	FAST Act	Fixing America's Surface Transportation Act (2015)					
	FHWA	Federal Highway Administration					
	FTA	Federal Transit Administration					
E-I	FTIP	Federal Transportation Improvement Program					
2.1	FY	Fiscal Year (State and local government)					
	FFY	Federal Fiscal Year					
	IIP	Interregional Improvement Program					
	IRRS	Inter-Regional Roadway System					
	ISTEA	Inter-modal Surface Transportation Efficiency Act (1991)					
	ITIP	Interregional Transportation Improvement Program					
	JARC	Job Access and Reverse Commute Program					
	JPA	Joint Powers Agreement					
	LTF	Local Transportation Fund					
	MAP 21	Moving Ahead for Progress (MAP-21) in the 21st Century (2012)					
	MCTC	Modoc County Transportation Commission					
J-O	MOU	Memorandum of Understanding					
	MPO	Metropolitan Planning Organization					
	MTA	Modoc Transportation Agency					
	MTC	Metropolitan Transportation Commission					
	NAHC	Native American Heritage Commission					
	OWP	Overall Work Program					

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PPM	Plannın	g, Programming & Monitoring Program

	PTA	Public Transportation Account						
	PUC	Public Utilities Commission/Public Utilities Code						
	PSR	Project Study Report						
	RIP	Regional Improvement Program						
	RPA Rural Planning Assistance							
P-R	RRAA	Road Repair and Accountability Act						
	RSTP	Regional Surface Transportation Program						
	RTIP	Regional Transportation Improvement Program						
	RTP	Regional Transportation Plan						
	RTPA	Regional Transportation Planning Agency						
	SAFETEA-	Safe Accountable Flexible Efficient Transportation Equity Act: A						
	LU	Legacy for Users (2005)						
	SB	Senate Bill						
	SHA	State Highway Account						
	SHOPP	State Highway Operation and Protection Program						
S	SIP State Implementation Plan (Air Quality)							
	SR	State Route						
	SSTAC Social Services Transportation Advisory Council							
	STA	State Transit Assistance						
	STIP	State Transportation Improvement Program						
	STP	Surface Transportation Program						
	TAC	Technical Advisory Committee						
	TEA-21	Transportation Equity Act for the 21st Century (1998)						
	TDA	Transportation Development Act of 1971						
	TDP	Transit Development Plan – Short Range Study						
	TE	Transportation Enhancement Program (formerly TEA						
T-Z	TEA-21	Transportation Equity Act for the 21st Century (1998-formerly ISTEA)						
	TSM	Transportation System Management						
	USDOT	United States Department of Transportation						
	VMT	Vehicle Miles Traveled						
	WE	Work Element						
	YTD	Year to Date						

EXECUTIVE SUMMARY

The Regional Transportation Plan (RTP) is a 20-year planning document developed by the Modoc County Transportation Commission (MCTC), which is the Regional Transportation Planning Agency (RTPA) for the Modoc region. The overall goal of the Modoc RTP is to provide a safe, balanced, coordinated, and cost-effective transportation system that conserves energy and preserves air quality, serves the needs of the region and is consistent with local plans (transit, housing, general, specific, etc.) and state and federal plans and programs.

It contains a discussion of regional transportation issues or concerns and possible solutions; goals, objectives, and policies for each transportation mode and area of concern; actions to be taken to implement plan goals, objectives, and policies and funding estimated to be available. There is a direct correlation between this plan and regional federally funded transportation projects. Regional transportation projects identified within this plan can be considered for funding by the California Transportation Commission through state and federal programs. This plan outlines regional transportation needs for specific funding programs through lists of projects, needs, policies and actions.

Summary of Issues and Needs

There is not the demand for capacity increasing transportation projects in the region, due to sparse and low population densities. The regional roadway needs are local roadway rehabilitation due to deferred maintenance and lack of transportation funds in the early 2000s. The Road Repair and Accountability Act of 2017, also known as the "Gas Tax" and Senate Bill 1 (SB 1), is a California legislative bill that was passed in 2017 with the aim of repairing roads, improving traffic safety, and expanding public transit systems across the state. These two programs will help offset some of the deferred maintenance.

On average there are only about 2.3 persons per square mile, limited medical services are available, and there is no college or university. Traffic delays due to traffic congestion are typically nonexistent which is typical for low population densities like Modoc County. Future infrastructure needs of the region include roadway rehabilitation, bridge rehabilitation and replacement, transit operations and maintenance funding and improving the safety of our existing transportation network. Other needs include expansion of transit services to un-served and underserved elderly, transit dependent, tribal community members, and improving mobility for residents of outlying communities within the area.

Transit capital funding reductions have created challenges in the ability to acquire replacement vehicles. The Road Repair and Accountability Act (RRAA) State of Good Repair program will offset some of the funding gap for Modoc Transportation Agency. Long distances between small communities that have no public transportation options or minimal service continue to compound the need to meet the specialized transit service systems.

RRAA Local Streets and Roads program will reduce some of the deferred maintenance needs for streets, roads, and highways in the Region. The Modoc County Road Department is projected to receive \$4 million and the City of Alturas \$40 thousand per year. The California Statewide Local Streets and Roads Needs Assessment should begin to reflect a reduction in the deteriorated roads, bridges, sidewalks, storm drains and traffic signs. Within Modoc there are 1,671.22 miles of maintained roads. The State, County, and City account for 1,198.98 of the total maintained miles in the region.

- *Chapter 1 Introduction* provides a brief history of transportation planning in Modoc County, legal requirements and the purpose of the RTP, the regional transportation planning process, transportation improvement programs, and rural regional performance measures.
- Chapter 2 The Modoc Region demographic information and travel characteristics. Modoc has experienced a population decline that is partially attributed to timber and forestry practice shifts. Federal government offices employed 150 to 200 employees in the late 1980's and early 1990's; currently, they employ about 70 people. Over time, the reduction of these positions has negatively impacted regional areas of employment and services.
- *Chapter 3 Regional Streets and Highways* This chapter provides information on bridge rehabilitation needs, street and road condition/needs, transportation system management, transportation programs, transportation enhancements, safety projects, and project lists. The goal is to utilize available funding in the most efficient manner to maintain a safe and efficient road system.
- Chapter 4 Public Transportation The Modoc Transportation Agency operates Sage Stage and is the primary public transportation provider in the region, providing demand response service in and around the City of Alturas and three intercity service routes to Klamath Falls, OR, Redding, CA and Reno, NV. Strong Family Health Center, DART, Veteran's Services, Modoc County social service programs provide some transit services to specified populations. TEACH Senior Citizen Services, TEACH, and many Modoc County human resource programs primarily rely on Sage Stage for their client's transportation needs. The goal is to continue to provide public transit intercity and demand response services to city and county residents and coordinate with human resource agencies to enhance and promote efficient use of transit funding. Modoc Transportation Agency continues to support and utilize capital vehicle programs for the region to reduce Green House Gas emissions.
- Chapter 5 Rail Transportation and Goods Movement trucks move most of the freight in and through Modoc County. The goal is to maintain an efficient goods movement industry with the least impact on the transportation system. Modoc County US 395/SR 139 was deleted from the State's 2018 Interregional Transportation Strategic Plan which could limit funding to maintain these routes. Rail freight movement has decreased since Union Pacific abandoned services in the region many years ago. There are only trips from the north out of Lakeview, OR. The goal of the RTP is to support rail crossing safety projects as funding is identified.
- **Chapter 6 Aviation** This chapter identifies the potential airport projects in the region and the possible federal and State funding sources. The goal is to utilize available funding to maintain accessible air service in a safe and convenient manner. The RTP supports aviation projects as funding is identified.
- Chapter 7 Non motorized transportation. The goal of the RTP is to support a transportation environment that encourages bicycling and walking where feasible and economical. MCTC will support local agencies in their development of pedestrian and bicycle improvements along with STIP projects and to support their efforts to seek funding from grants, including the Active Transportation Program, to develop these facilities. Sage Stage has reduced passenger fares for our Local Bus service and has seen an increase in ridership of 54% over 2014 ridership.
- Chapter 8- Land Use and Air Quality. There is a direct link between land use and transportation. Land development may affect existing transportation facilities as well as create the need for new facilities in the future. Modoc County does not exceed federal standards for ozone; the county currently exceeds the state small particulate matter on several days a year due to wood burning stoves. Modoc will support other counties' efforts to reduce GHG to the overall good. The goal of the RTP is to continue to meet all state and federal health standards and to promote transportation and land use developments around existing

transportation facilities. The Global Warming Solutions Act of 2006 prompted the state to set aggressive goals to reduce Green House Gas (GHG) emissions responsible for Climate Change. Several bills have been passed to reduce GHG; ARB attributes 50 percent of GHG emissions to the transportation sector.

Chapter 9- Environment. Transportation projects can affect sensitive environmental resources. All projects that are funded with state and federal funds are subject to state and or federal environmental review requirements, in addition to regulatory water permits and consultation with resource agencies for environmental resource protection. The goal is to minimize the negative environmental effects of transportation projects. MCTC encourages project proponents to select new project alignments that have the least environmental and cultural resource impacts. The RTP will support agency's goals to reduce Green House Gas emissions and to support their Sustainable Community strategies.

Chapter 10 – Financial. This chapter identifies current funding sources, current and projected revenues available to fund transportation, transit, and aviation projects in the region, and includes a comparison of the transportation needs to funding availability over the 20-year time period. New revenue sources have been estimated for the short-range period. The passage of RMRA - Local Streets and Road funding and the State of Good Repair for transit will provide funding for the next 10-year period. The bill was in part, in response to the ongoing need to set aside a funding stream for transportation infrastructure.

Chapter 11 Alternatives and Actions - discusses alternatives and actions to implement the proposed RTP: No action, emphasize roads and highways, emphasize public transportation or emphasize multimodal improvements. Emphasize multimodal improvements is the identified preferred alternative. Three funding scenarios are also considered – funding at present level is recommended due to the current budget crisis and lack of other available sources of funds.

Chapter 12- Policy Element – describes the regional transportation issues and provides goals, objectives, and policies to assist setting transportation priorities for the Modoc County Region. The Policy Element presents guidance for decision-makers about the implications, impacts, opportunities, and insolvent/inadequate options that will result from implementation of this RTP.

CHAPTER 1 - INTRODUCTION

Physical Setting and History

Modoc County is a land of rugged lava plateaus, fertile valleys, and towering mountains. It encompasses approximately 4,100 square miles in area (or roughly 2.5 million acres). The terrain is mountainous with high-desert vegetation and timber; numerous valleys or basins are suited for agricultural use. Predominant geographic features include the Modoc Plateau, Warner Mountains, Surprise Valley with three, often dry, alkaline lakes, Tulelake Basin, Goose Lake, and the Pit River Valley.

Modoc County Transportation Commission (MCTC) was created in 1972 as the Regional Transportation Planning Agency (RTPA) for the region. MCTC is responsible for carrying out transportation planning and administering many of the state and federal transportation programs. In 2016, MCTC divided from the County of Modoc and is now a separate government agency.

As the population of California has increased significantly, the complexities and problems of transportation have increased significantly. Modoc experiences somewhat opposite the state's growth challenges with its own set of challenges. Modoc has seen a population decline since the 1980's, very low growth with a disproportionate elderly and low-income population, and a large area of need compared to a low transportation revenue stream. The region experiences challenges with meeting mobility needs and maintenance costs of our existing networks. Short road construction seasons (90 to 120 days) often add costs to construction projects. There are not enough transportation funds to meet the needs of the region or the state. Meeting mobility needs will continue to be a challenge with the static funding forecasts.

Legal Requirements

State law requires each RTP to adopt and submit an updated regional transportation plan (RTP) to the California Transportation Commission (CTC) and the Department of Transportation (Caltrans) each five years in federally designated air quality attainment areas and each four years in urban areas. Modoc continues the federal designation of air quality attainment, classified as an Isolated Rural Attainment Area, and is therefore required to update the RTP each 5 years. The 2019 RTP will be revisited in 2024; the MCTC has the option to adopt or update the RTP. The plan is to be action-oriented and realistic, considering both short- and long-range funding forecasts. It provides policy guidance to local and state officials and serves as a reference for state and federal transportation projects and programs. A public hearing is required prior to the RTP adoption.

Purpose

The specific function of the RTP includes:

- 1. Providing an assessment of the current modes to transportation and the potential of new travel options within the region;
- 2. Projecting/estimating the future needs for travel and goods movement;
- 3. Identification and documentation of specific actions necessary to address regional mobility and accessibility needs;
- 4. Identification of guidance of public policy decisions by local, regional, state, and federal officials regarding transportation expenditures and financing;
- 5. Identification of needed transportation improvements, in sufficient detail, to serve as a foundation for the (a) development of the Federal State Transportation Improvement Program (FSTIP), which includes the RTIP/STIP), (b) facilitation of the National Environmental Policy Act (NEPA)/404 integration process and (c) identification of project purpose and need;
- 6. Employing performance measures that demonstrate the effectiveness of the system of transportation improvement projects in meeting the intended goals;
- 7. Promotion of consistency between the California Transportation Plan, the RTP and other plans developed by cities, counties, districts, California Tribal Governments, and state and federal agencies;
- 8. Providing a forum for (1) participation and cooperation and (2) facilitation of partnerships that reconcile transportation issues which transcend regional boundaries; and
- 9. Involving community-based organizations as part of the public, Federal, State, and local agencies, California Tribal Governments, as well as local elected officials, early in the transportation planning process so as to include them in discussions and decisions on the social, economic, air quality and environmental issues related to transportation.

Public participation is extended to included people that have been traditionally underserved by the transportation system and services in the County. It is noted that the CTC requires non-MPO RTPAs to address the federal planning requirements during the development of their RTPs. Planning for the regional transportation system is accomplished by the MCTC through continuous, cooperative, and comprehensive multimodal transportation planning with various governmental agencies, advisory committees, and the public.

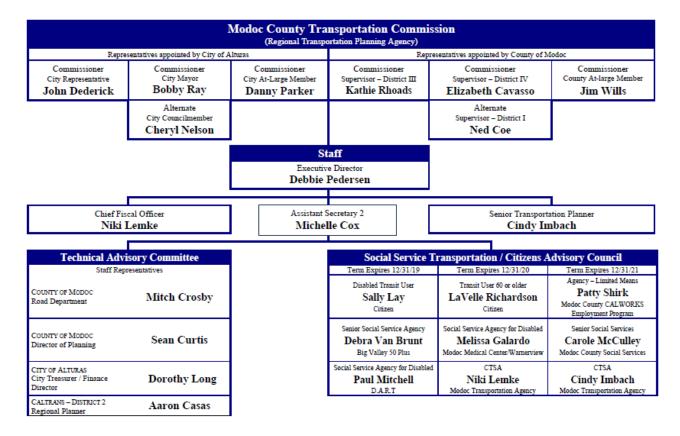
Steps undertaken during the regional planning process include:

- 1. Providing a long-term (20 year) visioning framework;
- 2. Monitoring existing conditions;
- 3. Forecasting future population and employment growth;
- 4. Assessing projected land uses in the region and identifying major growth corridors;
- 5. Identifying alternatives and needs and analyzing, through detailed planning studies, various transportation improvements;
- 6. Developing alternative capital and operating strategies for people and goods;
- 7. Estimating the impact of the transportation system on air quality within the region; and,
- 8. Developing a financial plan that covers operating costs, maintenance of the system, system preservation costs, and new capital investments.

RTP Guidelines goals:

- 1. Promote an integrated, statewide, multimodal, regional transportation planning process and effective transportation investments;
- 2. Set forth a uniform transportation planning framework throughout California by identifying federal and state requirements and statutes impacting the development of RTPs;
- 3. Promote a continuous, comprehensive, and cooperative transportation planning process that facilitates the rapid and efficient development and implementation of projects that maintain California's commitment to public health and environmental quality; and
- 4. Promote a planning process that considers the views of all stakeholders.

The planning and programming process are the result of state and federal legislation to ensure that processes are as open and transparent as possible; environmental considerations are addressed, and that funds are allocated in an equitable manner to address transportation needs. The MCTC organizational structure and advisory groups are as follows:



Public Participation

Draft Modoc RTP Development

- •Announce RTP update
- Gather input from stakeholders
- Gather input from Tribal Governments
- •Gather input from public
- Prepare Draft CEQA

Public Hearing -Draft Modoc RTP

- Circulate draft RTP
- Publish legal notice
- Solicit and receive public comment
- Conduct Public Hearing
- Update Draft RTP

Final Modoc RTP

- MCTC hold public hearing adopt Final RTP & CEQA
- Submit Final RTP to the CTC and Caltrans
- Monitor FTIP and STIP consistency with RTP

Modoc RTP Implementation

- Monitor and program transportation funds
- Develop and construct transportation projects
- Assess ongoing land use development/transportation

Federal and state laws and regulations require that the MCTC consult with affected agencies, and that all interested parties be provided reasonable access to information and opportunity to comment on the RTP. Thus, questionnaires were mailed to a wide variety of agencies, groups and individuals to solicit input into the transportation planning process, to notify them of the RTP update, and request assistance with the 2019 RTP.

Public Entity Participation

The MCTC plans for the regional transportation system in consultation and coordination with regional stakeholders. During the development of this RTP, among others, the entities listed below were contacted for information and solicited for input.

- Adjacent County Regional Transportation Planning Agencies (RTPAs)
- State and Federal Resource Agencies
- Tribal Governments
- Modoc County Air Pollution and Control District

In compliance with the *California Transportation Commission's 2017 RTP Guidelines*, the following provides details of correspondence specific to agencies that responded.

Native American Consultation

The RTP meets the state and federal requirements to involve Native American Tribal governments in the development of plans and programs, including funding and programming of transportation projects accessing tribal lands through state and local transportation programs.

Initial planning efforts were made with contact to the Native American Heritage Commission (NAHC) to obtain a current listing of federally recognized tribes within Modoc County and through initial contact with the Bureau of Indian Affairs (BIA) to initiate and coordinate meetings with each tribe. Based on input from NAHC and BIA we consulted with the region's three federally recognized tribes, the Pit River Tribal Council, the Cedarville Indian Rancheria, and the Fort Bidwell Community Center. Preliminary planning considerations included transportation issues within Modoc County, land use, employment, economic development, environmental and cultural resource considerations, and housing and community development. Below is a summary of the consultation meetings:

Tribe	Consultation	Discussion items
Pit River Tribe	August 15, 2019 Burney, CA	 Develop a draft and final Master Plan with each RTPA within their ancestral territory Support Tribal efforts to collect data for accidents Provide mutual support for transit funding grant applications.
Cedarville Indian Rancheria	October 31, 2019 Alturas, CA	 Better encroachment onto SR 299 at Patterson St in Cedarville (Caltrans) – unresolved from 2014 RTP. Road drainage issues along Patterson St. (County) – unresolved from 2014 RTP Future for housing and community development in Cedarville (27 acres adjacent to Rabbit Traxx). Long lead project.
Ft Bidwell Indian Community	August 10, 2019 Ft. Bidwell, CA	 Transit to Ft Bidwell Community Center Coordinate with County for improvements to County Road 1 at Ft Bidwell Community encroachments.

Adjacent County Regional Transportation Planning Agencies

A series of questions were sent to adjacent RTPAs and to Klamath and Lake Counties in Oregon, and Washoe County in Nevada. Below is a summary of the responses.

- Lassen County Transportation Commission indicated that they are not aware of any transportation conditions in Modoc County that impact Lassen County. They do not anticipate significant growth in population or commerce that would impact transportation demands in Modoc County.
- Lassen Transit Service Agency staff expressed appreciation for the coordination of services from Susanville to Reno. They expressed the importance of maintaining transit service along US 395 from Alturas to Reno and are experiencing transit/commuter demand from Herlong. There is an increased need for Non-Emergency Medical Transportation between the regions and to outside the region such as Redding and Reno.
- Shasta Regional Transportation Agency (SRTA) Currently SRTA has prepared a business plan to operate electric bus service between Redding and Sacramento North State Express/Salmon Runner. SRTA plans 4 southbound and 4 northbound daily trips; passenger cost per trip around \$20 one way. The Salmon Runner will originate in Redding and have scheduled stops at Red Bluff, Corning, Willows, Sacramento International Airport and downtown Sacramento. Sage Stage will be a supporting connection from Alturas to Redding when the service commences. SRTA anticipates the service to begin in 2020.

In the aftermath of the devasting Carr fire, SRTA has been awarded grant funding for Shasta Ready. One concept of Shasta Ready is to bring all service agencies, emergency response services, etc. together to develop a master plan for emergency preparedness. The plan will look at actual impacts to facilities and infrastructure needed during large scale evacuations and assess impacts (within and outside the immediate emergency area). MCTC will review Shasta Ready and see what best practices could be implemented in the Modoc region.

- Siskiyou County Local Transportation Commission Transit is the most important link between the two counties and will continue to be as population increases in both counties. Sage Stage operates a service weekly from Alturas to Klamath Falls. The Alturas/Klamath Falls service has proved beneficial for Siskiyou County residents residing in Tulelake as the Siskiyou Transit and General Express (STAGE) does not provide service to the area.
- Oregon and Nevada (along Modoc County borders) As there are few county road connections between Klamath and Lake Counties in Oregon and Modoc County, regional transportation between the two counties is not a major issue and is largely limited to the state highway. The communities of Lakeview, Merrill and Malin, Oregon, and Tulelake, California depend on interstate highways and local roads for farm to market commerce.
- Portions of **Washoe County, Nevada** border Modoc County to the east. These areas are generally uninhabited which limits interaction between Nevada and Modoc communities. Population and employment in Washoe County are centered on the Reno/Sparks Metropolitan area (190 miles south of Alturas). Coordination and communication are key for transit operations during high wind events on SR 395 around Doyle, CA and Reno, NV.

State and Federal Resource Agencies

In January 2019, the following state and federal resource agencies were contacted to obtain input and request maps and materials that would be useful in determining the effect of RTP projects on natural resources in the region:

- Bureau of Land Management
- California Department of Fish and Game
- US Fish and Wildlife
- California Office of Historic Preservation
- Lava Beds National Monument
- US Bureau of Reclamation
- California State Water Resources Control Board

Private Sector Participation

Citizen Participation

Public involvement is a major component of the RTP process. A public transportation planning process, including a public involvement program, is required for each RTP. MCTC public participation and outreach is in Appendix D. The MCTC makes a concerted effort to solicit public input in many aspects of transportation planning within the region. Below are several examples of ongoing efforts:

- Citizens are encouraged to attend and speak at MCTC meetings on any matter included for discussion at that meeting, or any other matter of public interest.
- Each year, public notification is distributed to encourage participation in the Unmet Transit Needs hearings that are held by the MCTC.
- Public outreach for special projects, workshops, and design committee input.
- All studies conducted by the MCTC are either adopted or accepted following advertised public notification and a public meeting.

Human Service Transportation Providers

To reach out to low-income, disabled or senior members of the community, the following human service transportation providers were contacted, asked for input, and invited to the public workshop conducted by the MCTC.

Canby Family Practice Clinic Modoc County Veterans Services

Far Northern Regional Center Surprise Valley Health Care District

Modoc County – CalWORKS Strong Family Health Center

Modoc County Social Services T.E.A.C.H. Inc., and TEACH Senior Services

Modoc Medical Center/Clinic Alturas Head Start

Modoc County Health Services Big Valley 50 Plus

Compliance with Title VI

The MCTC reaches out to disadvantaged populations to ensure their participation as part of the transportation planning process, to meet Title VI requirements and to better serve the community. The Commission conducts open or public meetings where transportation issues are discussed. Citizens that

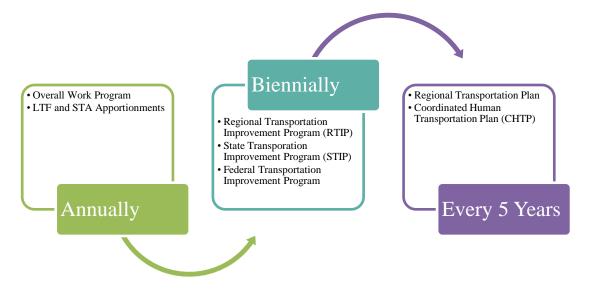
express interest or make comments at a public meeting are placed on a mailing list to be notified about additional meetings and any proposed actions.

A reasonable attempt is made to notify organizations representing minorities, elderly and persons with limited means. Plans, public outreach, meeting notices, and general information are all published in the local newspaper, posted at agencies that serve minority communities and on social media sites, and noticed in Sage Stage buses. Efforts to have minority (Native Americans, Hispanic individuals and persons with limited means,) elderly and disabled citizen representation on advisory committees are continuous. MCTC and MTA complaint procedures are posted various locations as required by Title VI.

Special Arrangements for "free" transportation to and from MCTC meetings will be provided to elderly, disabled and persons with limited means, within 10 miles of meeting location and with a passenger's 48-hour advance request for service. Also, special arrangements may be made to accommodate persons who speak only Spanish with 72-hour advance notice.

The Regional Transportation Planning Process

The multi modal transportation systems throughout the county and city are interconnected and serve the needs of the local citizens and traveling public. The RTP update provides an opportunity for a regional assessment of needs, goals, objectives and policies that benefit the system, instead of by each agency's jurisdiction. Several periodic planning activities are required by state and federal regulations and support the implementation and ongoing coordination of regional transportation planning and are as follows:



Annually

The Overall Work Program (OWP) outlines annual regional transportation planning and funds the RTPAs planning activities.

Local Transportation Funds and State Transit Assistance apportionments and allocations fund transit needs that are reasonable to meet. Biennially – Transportation Improvement Programs

Regional Transportation Improvement Program (RTIP) - MCTC is required to develop and adopt a five-year program for planned transportation projects within Modoc County.

Interregional Transportation Improvement Program (ITIP) – Caltrans is required to develop and adopt a five-year program for planned transportation projects on the interregional highway system. MCTC can comment on the ITIP.

State Transportation Improvement Program (STIP) – California Transportation Commission must adopt the STIP (STIP = RTIP + ITIP (state's program)).

Federal Transportation Improvement Program (FTIP) – Caltrans prepares a four-year program for planned transportation projects involving federal funding for rural agencies; MPOs prepare and approve their FTIPS.

Updated Each 5 Years

Regional Transportation Plan – Long range, 20-year plan that identifies funding, programs and projects to the multimodal regional transportation system. The overall goal of the RTP is to provide a safe, balanced, coordinated, and cost-effective transportation system that serves the needs of the local and regional multimodal transportation system.

The Modoc Coordinated Human Transportation Plan was revised in 2014 (formerly the Public Transit Human Services Transportation Plan). The effort was headed by the Caltrans Division of Rail and Mass Transportation, through a State contract with University of the Pacific, and provided 12 rural counties updated plans. MCTC is joining with other rural counties in a combined effort to update the Coordinated Human Transportation Plan update which is being headed by the Caltrans Division of Rail and Mass Transportation.

Regional Performance Measures

Performance measures are used to evaluate and analyze the performance and effectiveness of the transportation system, government policies, and programs in the RTP. A set of standard performance measures (Appendix A) have been identified that allow for the quantitative analysis of the regional transportation plan and system. The Rural Counties Task Force Performance Monitoring Indicators For Rural and Small Urban Transportation Planning provides guidance for applicable performance measures for Modoc; the Modoc Region does not have any traffic congestion, has a declining population, and is classified as an Attainment Air Quality basin.

FAST Act establishes national performance goals for Federal highway programs:

- Increase the **safety** of the transportation system for both motorized and non-motorized users on all public rods.
- Increase the **security** of the transportation system for motorized and non-motorized users.
- Support the **economic vitality** of the planning area, by enabling global competitiveness, productivity, and efficiency.
- Increase the accessibility and mobility of people and for freight in rural communities.
- Protect and enhance the **environment**, promote **energy conservation**, improve the **quality of life**, and promote **consistency between transportation improvements and State and local planned growth and economic development patterns**.
- Enhance the integration and connectivity of the transportation system, across and between modes, for people and freight.
- Promote efficient system management and operation.
- Emphasize the **preservation of the existing transportation system**.
- Improve the resiliency and reliability of the transportation system and reduce or mitigate storm water impacts of surface transportation.
- Enhance travel and tourism.

Program level performance measures in this RTP are consistent with System Performance Measures and criteria to measure the performance of specific projects defined in the 2017 RTP Guidelines as follows:

- Safety/Accidents
- Land Use Efficiency
- Vehicle Miles Traveled (Highways)
- Distressed Lane Miles
- Transit Operating Cost/Revenue mile
- Pavement Condition

The following criteria can measure the performance of specific projects in rural areas:

- 1. Reduction in vehicle occupant, freight and goods travel time or delay.
- 2. Reduction in vehicle and system operating costs.
- 3. Reduction in collisions and fatalities.
- 4. Increase transit ridership from increased frequency and reliability of transit service.
- 5. Reduction in vehicle miles traveled.
- 6. Increase in bicycling and walking trips.
- 7. Pavement Condition Index; reduce distressed lane miles
- 8. Land use efficiency

The RTP sets forth policies that provide the framework to guide decision-making so that short-range actions and decisions are made toward implementation of the long-range plan. Some policies are specific by their very nature, while others provide guidance that is more general. The MCTC has established policies in this RTP that support implementation of its goals and objectives. The policies, goals and objectives are generally consistent with policies set forth in the County and City General Plans, special studies, and area plans. These policies support each transportation mode to ensure the effectiveness of a comprehensive regional transportation system.

Typical tools and data used to quantify information for performance measures are transit ridership data and operating cost per revenue mile, California Highway Patrol Statewide Integrated Traffic Records System (SWITRS), Caltrans Highway Performance Monitoring System (HPMS), Modoc County and City of Alturas Pavement Management Systems, and local agency accident data.

Goals, Objectives, and Policies

In addition to discussing background information, issues, and actions, each chapter describes transportation goals, short- and long-range objectives, and policy statements. These are intended to support and compliment other local and regional plans and programs that address the issues of transportation, air quality, and land use.

The RTP addresses various modes of transportation even though the automobile is the primary means of personal transportation in the region. The RTP emphasizes the need to maintain and rehabilitate the existing transportation system as slow growth has impeded the need to expand and increase capacity of the transportation system.

The following definitions should be considered when evaluating the goals, objectives, and policies of the RTP:

- 1. A *goal* is the end toward which effort is directed. It is general and timeless.
- 2. An *objective* is a completed action or a point to be reached. It is measurable and can be attained. Objectives are successive levels of achievement in the movement toward a goal and should be tied to a time-specified period (short- and long-term) for implementation programs.

- 3. A *policy* is a course of action selected form alternatives (with given conditions) to guide the decision-making process toward the achievement of the ultimate goals.
- 4. Short-Range is a 10-year planning horizon (2020-2029)
- 5. Long-Range is a 20-year planning horizon (2030-2039).

Required Documentation

The extent of required documentation is based on the current federal nonattainment designation and requirements applicable to Modoc County. Modoc County is included in the Northeast Plateau Air Basin and is unclassified or in attainment with ozone, 8-hour ozone, and PM₁₀ Federal air quality standards. However, Modoc County is in nonattainment with the higher state PM₁₀ standard. Air quality is not generally attributed to transportation conditions in Modoc County. The *Air Quality Conformity Determination* provides an analysis of the emission of pollutants from transportation sources that can be expected to result from the implementation of this Plan. This analysis must document that the projects included in the RTP, when constructed, will not lead to the emission of more pollutants than allowed in the emissions budget in the State Implementation Plan (SIP).

Environmental documentation, required by the California Environmental Quality Act (CEQA), states whether an environmental impact will result from implementation of the Plan and if so, what that impact will be. CEQA defines significant effects as "a substantial, or potentially substantial, adverse change in the environment." In accordance with CEQA guidelines, public agencies are responsible to minimize or avoid environmental damage, where feasible. Agencies must balance a variety of objectives, including social, economic and environmental concerns, to comply with CEQA obligations.

The MCTC has prepared an Initial Study and Negative Declaration for the *Modoc County 2019 RTP* with a finding of no significant effect on the environment. The Notice of Negative Declaration was filed October 22, 2019. The Notice of Determination was issued by Modoc County November 22, 2019.

Coordination with Other Plans and Studies

The *RTP Guidelines* recommend that the circulation elements of the general plans within a region are consistent with the RTP. The general plans of this region include the *City of Alturas General Plan* (1985), the City Housing Element (currently being drafted), the *Modoc County General Plan* (1988) and *Modoc County Housing Element* (2014-2019); the RTP is consistent with the circulation elements in both general plans. The Modoc 2019 RTP acknowledges and reflects external consistency with the California Transportation Plan and regional transportation plans in adjacent regions, including Washoe County in Nevada, Klamath and Lake Counties in Oregon, and Lassen, Shasta, and Siskiyou Counties in California.

CHAPTER 2 - THE MODOC REGION

Geographic Area

Modoc County is a pristine region with sparse population, abundant wildlife, and wide-open spaces. The County, located in the northeastern corner of California, covers a portion of the Shasta Cascade geologic region. Elevation ranges from 3,500 feet on the Day Bench to 9,934 feet at Eagle Peak in the Warner Mountains. As shown in Figure 2-1, Modoc County is bounded by Siskiyou County to the west, Lassen and Shasta Counties to the south, Klamath and Lake Counties in Oregon to the north, and Washoe County in Nevada to the east. Two major highways traverse the County: State Route (SR) 299, running generally east-west, and US 395 running north-south. In addition, SR 139 extends to the northwest from its junction with SR 299 at Canby, providing access to Tionesta, Newell, Tulelake, and the Klamath Basin.

Located near the center of the region, the City of Alturas hosts the County seat. Alturas is located 143 miles northeast of Redding, California, 189 miles northwest of Reno, Nevada, and 100 miles southeast of Klamath Falls, Oregon. While Alturas is the only incorporated city in Modoc County, other communities with populations over 200 include the towns of Adin, Canby, Cedarville, and Newell, and the California Pines subdivision.

Modoc County's climate has warm, dry summers and cold, moderately wet winters. Low temperatures in January average 16 degrees Fahrenheit, while the high temperatures in August average 88 degrees Fahrenheit. Annual precipitation levels range from 9 to 18 inches in the valley areas and up to 35 inches in the southwest mountain areas. Most of the precipitation is snow during winter, with occasional warm rains during springtime. Summer precipitation is rare and limited to occasional scattered thunderstorms.

Demographics

The population of Modoc County is one of the smallest in the state, ranking 56th among the 58 California counties, with only Sierra and Alpine counties having smaller populations. The 2010 Census reported 9,686 persons in Modoc County with about one-third (2,827) residing within the City of Alturas (U.S. Census Bureau 2010). The California Department of Finance estimates the 2017 County population at 9,488, a 15% decrease from 2016. The decrease was primarily due to migration out of county and deaths outnumbering births.

The California Department of Finance (2010) projections show a decrease in population per each 10 years through 2040 with about a 10% increase, or -951 people, over the 50-year forecast. The 75 and older age group will see the most significant increase of 597 or 74% over the forecast period. This increase in retirement population could be due to lower cost of real estate in the area and the slower pace of rural lifestyle.

Table 1 Modoc County Population Estimates and Forecasts by Age Groups

		P	opulation	n by Deca	ıde			Percenta	ge Change 1	by Decade			Change -2060
Age Group	2010	2020	2030	2040	2050	2060	2010-2020	2020-2030	2030-2040	2040-2050	2050-2060	#	%
0 to 17	2,113	1,799	1,774	1,777	1,619	1,598	-15%	-1%	0%	-9%	-1%	-515	-24%
18 to 64	5,656	5,082	4,816	4,719	4,874	4,786	-10%	-5%	-2%	3%	-2%	-870	-15%
65 to 74	1,113	1,462	1,210	973	820	950	31%	-17%	-20%	-16%	16%	-163	-15%
75 or more	806	1,198	1,746	1,786	1,575	1,403	49%	46%	2%	-12%	-11%	597	74%
Totals	9,688	9,541	9,546	9,255	8,888	8,737	-2%	0%	-3%	-4%	-2%	-951	-10%

Department of Finance Population Estimates and Forecasts by Age Groups

Proportionately, more elderly persons live in Modoc County than elsewhere in California. In 2010, almost 20% percent of the Modoc County population was age 65 years and older, while the comparable statewide portion was 6.5 percent. There were 524 householders in Modoc County who are 65 or older. Younger people and families with children are reported to leave the County for education and greater economic opportunities. Conversely, retirees are moving to Modoc County apparently to take advantage of less costly real estate, abundant natural attractions, cleaner air, and leisurely rural lifestyles. As for the racial/ethnic population breakdown of the County, 370 American Indians live in Modoc County according to the 2010 Census, while there are 1,342 Hispanic or Latino, and 8,084 White.

Modoc's average population density in 2017 was estimated to equal 2.47 persons per square mile, compared to California's average of 227.58 (U.S. Census Bureau 2010). In Modoc County, settlement is generally in small communities separated by 10 to 30 miles along the state highways (Figure 2-1). This pattern and very low population density have significant implications for transportation planning and pose many challenges for transit operations.

Table 2 Population Projections for Persons Aged 65 and Over –

Age Group	2010	2020	2030	2040	2050	2060	% Change 2010- 2060
Under 65	7,769	7,368	7,247	7,531	7,478	7,105	-9.0%
65-74	1,113	1,565	1,575	1,418	1,470	1,330	19.5%
75-84	578	864	1,219	1,027	864	772	33.6%
85 or more years	228	334	527	759	711	631	176.8%
Subtotal 65+	1,919	2,763	3,321	3,204	3,045	2,733	42.4%
% older adults	19.8%	27.3%	31.4%	29.8%	28.9%	27.8%	40.2%

Source: State of California, Department of Finance, State and County Population Projections by Major Age Groups, January 2018

Table 3: Median Household Income

	Modoc County	California
2013-2017	39,296	67,169
% poverty	19%	13%

Table 4. County and State 2020 Population Estimate by Ethnicity/Race

Ethnicity	Modoc County	%	California	%
77 fl. 5 #			15 451 024	
White*	7,380	77.7%	15,451,934	38.2%
Black*	75	0.8%	2,321,113	5.7%
American Indian*	287	3.0%	175,736	0.4%
Asian*	76	0.8%	5,301,790	13.1%
Native Hawaiian				
and other Pacific	23	0.2%	145,731	0.4%
Islander*				
Hispanic or Latino	1,415	14.9%	15,955,542	39.4%
Multi Race*	242	2.5%	1,115,449	3%
*Not Hispanic or Latino		·		
Totals	9,498	100%	40,467,295	100%

Source: US Census Modoc County

The Modoc region has unique demographics as compared to statewide averages as follows:

- Modoc County has an older population and higher percentage of elderly;
- Modoc's population continues to advance in age and disabilities;
- Modoc's population estimates continue to decline up to 4% annually based on the U.S. Census Bureau;
- Modoc's race composition differs dramatically from State trends, with percentage of White population almost double the State percentage;
- The region is sparsely populated with long distances between small communities that are scattered about the County;
- Alturas is the only incorporated city in the region and encompasses a compact 2.5 square miles.

OREGON Tulelake Willow Ranch Fort Bidwell Perez Tionesta Lake City Siskiyou Modoc NEVADA Hackamore Cedarville Alturas Canby-Legend **Population Density** by Census Tract Eagleville (persons per square mile) 328 < 2 Likely Lookout **Native American Tribal Properties** 20 Miles 10 Lassen Source: US Census Bureau 2010 Census

FIGURE 1 POPULATION DENSITIES AND TRIBAL LANDS

Travel Characteristics

Registered Vehicles

At the end of 2018, California Department of Motor Vehicles estimated 13,530 fee-paid registrations for vehicles in Modoc County.

Table 5 Regional Fee Paid Registrations ending 2018

Year	Auto	Truck	Trailers	Motorcycles	Total
2018	5,104	4,205	3,991	230	13,530

Manufactured or mobile homes are classified as trailers, which accounts for their relatively large proportion of vehicle registrations; roughly one-quarter of the housing units in the County are manufactured homes.

Table 6 – Modoc Vehicle Fuel Types January 1, 2018

Battery Electric	Diesel	Ethanol	Gas	Gas Hybrid	Plug in Hybrid	Methanol	Natural Gas	Total
5	1491	653	7251	75	1	2	3	9481

Commute Patterns

Regional commute patterns reflect the County's remoteness and isolation. In 2014, Modoc County had 1307 workers commuting into the county and over 1717 commuting out. Of those who commute into Modoc County, the largest number come from Siskiyou county (130 or 5% of the workforce), seconded by Merced County (119 or 4.6%). The top destination counties for Modoc out-commuting workers are Lassen County (274 or 9.1%) and Shasta County (204 or 6.8%).

Most Modoc workers live within less than ten minutes driving distance of their employment sites. 56.6 percent of the total employed Modoc residents commuted ten to fourteen minutes. For most employees, travel time to work is not an issue, compared to other regions, however employment opportunities are scarce.

Economy

Housing

Table 7 Modoc County Housing Estimates January 1, 2018

County/City To	POPULATION			HOUSING UNITS								D
	Total	Household	Group Quarters	Total	Single Detached	Single Attached	2 to 4	5+	Mobile Homes	Occupied	Vacancy Rate	Persons per Household
County	6,744	6,428	316	3,864	2,860	84	35	30	855	2,657	31.24%	2.42
Alturas	2,868	2,868	-	1,404	1,083	25	84	131	81	1,202	14.39%	2.39
Modoc Total	9,612	9,296	316	5,268	3,943	109	119	161	936	3,859	26.70%	2.41

Department of Finance Demographice E-5 2018

The portion of vacant housing units in Modoc County, 26.7%, continues to exceed the statewide vacancy rate of 7.4%. Some of the vacancies reflect the overall housing surplus in the region; some are seasonal use units and are owner occupied a portion of the year. In terms of housing tenure, about 73.9% percent were owner-occupied which compares to 57.4 percent statewide. The housing profile in Modoc County is expected to experience a slight growth over the next two decades; housing vacancy rate was 28.5% in 2015 (2014-2019 Modoc Housing Element).

Economic Base

Historically, the local economy has been based on agriculture, forestry, recreation, and tourism. According to the U.S. Census Estimates 2017, mean income in Modoc County is \$22,052, and the State of California is \$35,046. Income figures are consistent with Modoc population, which reflects more elderly and retired persons.

In Modoc approximately 698 households, or 19.2%, are below the poverty level compared to 13.3% for all of California. Overall, the economy and economic development are very important regional issues.

Employment

In December 2018 the Modoc County labor force was 3,110, with an unemployment rate of 8.4%. Over the past 5 years unemployment rates range from 12% in the winter months to 6% in the summer months. Summer seasonal or part time employment opportunities (agriculture, government, etc.) likely attribute to the lower unemployment rates.

Of the total employed workers, the largest sector is government providing, with 1,115 employees. Agriculture (including forestry, fishing and hunting) workers totaled 431, while there were 283 employed in health care and social assistance.

Native Americans

For centuries, the Modoc region was home to Native Americans who hunted in the valleys and mountains, fished in rivers and lakes, and crafted their homes, boats, and gear from tules (reeds) growing along the waters' edge. Archeological evidence suggests that Indian habitation dates back more than 10,000 years. The Indian way of life changed forever in the 19th century, as emigrant parties blazed trails across the region. The first Euro-American settlers arrived in Surprise Valley in 1864. During the next several years, emigrants continued to settle in most local valleys. Hostilities with Native Americans, defending their land and lifestyle, were frequent. These conflicts climaxed with the Modoc Indian War of 1872-73.

Three different Native American groups inhabit the region: the Modoc, Achomawi (or Pit River), and Northern Paiute Indian Tribes. Each Tribe is a sovereign nation, functioning as a separate government entity. Serving an interface between Tribal and U.S. governments, the U.S. Department of Interior, Bureau of Indian Affairs (BIA) administers federal and State programs benefiting Native Americans. With offices in Redding, the BIA Northern California Agency jurisdiction includes Modoc areas. The BIA typically administers federal funding for improvements and maintenance on eligible Indian Reservation Roads.

All tribes within the region approved transportation plans in 1997 and the Pit River and Fort Bidwell tribes updated their plans in 2004 and 2006. Today, four different Indian tribal governments own land in six locations within Modoc County. Below are brief overviews of these Indian properties. Tribal Transportation projects are listed in Chapter 4 of this document; Tribal lands are shown in Figure 1.

Alturas Rancheria

Located approximately one mile east of Alturas, the Alturas Rancheria encompasses 20 acres that border the Modoc National Wildlife Refuge. Access to the Rancheria is from US 395 (Main Street) in the City of Alturas to County Road 56 (Parker Creek Road), and then to BIA Route 79 (casino entry). Three dwelling units are located at the Rancheria site, along with a small casino and one paved road about 0.1 miles long. The Tribe is interested in acquiring additional acreage from the U.S. Fish and Wildlife Service in order to build more housing units.

Cedarville Rancheria

The Cedarville Rancheria owns 17 acres of land, located approximately one-quarter mile south of SR 299 in Cedarville. The Rancheria is accessible by BIA Route 44 adjacent Patterson Street, which connects to SR 299. Development includes a gas station and mini mart and nine dwelling units. The Tribe is planning future residential development and recently purchased additional land adjacent to the southern boundary of the Rancheria. They have identified road improvements to serve these developments as future needs.

Fort Bidwell Reservation

Covering 3,335 acres, the Fort Bidwell Reservation is located just to the west of the community of Fort Bidwell in the northern portion of Surprise Valley. County Road 1 (Surprise Valley Road) north from Cedarville provides access to the reservation. There are several dozen dwelling units on the reservation, wherein about 150 persons reside. The Tribe is planning to develop additional residential units in the future which will need new roadways. Governed by the Fort Bidwell Indian Community Council, timber harvesting and fisheries provide seasonal economic and employment opportunities on the Reservation.

Pit River Tribes (Likely, Lookout, and X-L Reservations)

Likely Rancheria - Affiliated with the Pit River Tribe, the Likely Rancheria consists of an historic Indian cemetery located off the Indian Road, about 0.2 miles long. This private road is accessed from US 395 via CR 65. As noted in their 1997 transportation plan, Likely Rancheria would like to develop an alternative to this private road to the cemetery in the long term. The owner of the private road has expressed a willingness to work with the BIA to improve the situation.

Lookout Rancheria is located on CR 87, three miles east of the community of Lookout in Modoc County. The Rancheria contains 40 acres of land with only four residences. Tribes indicated in the 1997 Transportation Plan that there are no plans for future additional housing, nor do they intend to purchase additional land.

The X-L Ranch Reservation comprises 97,254 acres in the extreme northeast corner of Modoc County. The main part of the reservation lies along US 395, near the junction with SR 299. There are 12 homes on the reservation, and the land is used primarily for farming and ranching. There are no land use plans or development plans for the reservation, although there may be a need to improve Thomas Creek Road in the future for additional housing.

One project which can be jointly pursued by the Pit River tribes and Modoc County is to update the tribal road inventory in the spring of 2008. Many County maintained roads travel through the various Pit River Rancherias which are surrounded by cultural resources. The Pit River tribes would like to include these roadways in the tribal road inventory.

Climate Change

Flooding, extreme heat events, and effects of those conditions could impact regional transportation modes. MCTC is a participating member of the Modoc Office of Emergency Service Plan and are available to assist with extreme events, local, regional and state disasters as needed. Local and State agencies have experienced federal and state declared disasters from fires and flooding. The RTP supports use of emergency funds to open roads, clear debris, and provide emergency services that are necessary to our rural area.

CHAPTER 3 - STREETS, ROADS AND HIGHWAYS

Description of Public Road System

The public road system in Modoc County consists of 1,699.4 miles of maintained public roads. This figure does not include private roadways or roads that are not maintained by public entities. Distance mileage of maintained public roads system by jurisdiction includes the following:

State of California	177.6 miles
County of Modoc	982.87 miles
City of Alturas	33.12 miles
U.S. Forest Service	466.34 miles
U.S. Fish & Wildlife Service	5.89 miles
U.S. National Park Service	9.46 miles
U.S. Bureau of Indian Affairs	16.6 miles

Public Lands Road System

Nearly three-quarters of Modoc County is public land, divided into the Modoc National Forest; Bureau of Land Management; Modoc, Clear Lake and portions of Tulelake National Wildlife Refuges; State Wildlife Area at Ash Creek; and part of Lava Beds National Monument. Below are brief discussions about these resources, managing agencies, road systems, and related funding. Although general information is included regarding federal lands roads, trails, and walkways; specific information on road systems is not included in this Regional Transportation Plan.

Modoc National Forest

Created in 1907, the Modoc National Forest boundaries encompass nearly two million acres within Modoc, Siskiyou, and Lassen Counties. The U.S. Department of Agriculture, Forest Service (USFS) oversees these lands with 1,663,530 acres under its direct control. About 83 percent of the Modoc National Forest is located within Modoc County. There are just 20 miles of paved roads, mostly providing access to campgrounds and forest facilities. Funding for USFS road maintenance is appropriated through Congress. Close coordination occurs between the County and the USFS when adjacent projects are planned and implemented.

- California Back Country Discovery Trails About 200 miles of forest roadways are dedicated as
 a segment of this off-road system, starting at the Oregon border to the north and ending at the
 Shasta-Trinity National Forest to the west.
- Federal Lands Highway Program (FLHP) Forest Highways category provides discretionary 100 percent federal funding for maintenance of designated road segments to the controlling agency. Specific Forest Highway projects are discussed in the RTP.

Bureau of Land Management

The U.S. Department of Interior, Bureau of Land Management (BLM) administers 140,975 non-contiguous acres within Modoc County. The BLM manages these lands for assorted multi-use purposes according to numerous federal laws. Roads maintained by the state, county, private parties, and other entities which cross BLM lands; all must allow public access. The BLM roadway system includes 130.8 miles of primitive or unimproved roads. These roads are not maintained regularly; they are repaired as needed or improved on an event basis to provide access for BLM and public activities. The BLM plans to work with the Modoc County Road Department regarding West Valley and BLM mining pits. The BLM is planning to restore parts of the Surprise Valley Trail that was damaged by wildfire. They will be restricting off road vehicles on the table lands and other BLM roads; travel will be limited to travel ways and established routes.

Protected Lands

Lava Beds National Monument - Volcanic eruptions over millions of years created a rugged landscape punctuated by cinder and spatter cones, lava flows, pit craters, and lava tube caves within the Lava Beds National Monument. Created by proclamation in 1925, this monument was added to the National Park Service (NPS) in 1933. While only a small portion of its 46,000 acres are located within Modoc County, chief access to the monument is via County Roads 97, 111, and 120 from SR 139. The National Park Service oversees the monument and its 22 miles of paved roads, of which 7.8 miles are within Modoc County.

National Wildlife Refuges - Modoc County is home to more than 300 wildlife species, including many threatened, rare, endangered, and sensitive animals. The Pacific Flyway for migratory waterfowl crosses directly over Modoc County. Managed wetlands attract hundreds of thousands of birds annually. The U.S. Department of Interior, Fish and Wildlife Service (FWS) manage three properties in the County: the Modoc National Wildlife Refuge, portions of the Tulelake National Wildlife Refuge, and the Clear Lake Refuge. The latter is part of the Klamath Basin National Wildlife Refuge complex. The Modoc Refuge includes 7,021 acres with 3.5 miles of gravel roads. There are two pedestrian trails one 5,000 feet and one 4,200 ft. The wildlife drive encounters about 1500 vehicles a year. The Tulelake Refuge covers 39,116 acres, of which 8,320 are located within Modoc County with 14 miles of public roads. The remote Clear Lake Refuge encompasses 46,460 acres with no roads.

Ash Creek Wildlife Area – Managed by the California Fish and Wildlife (CF&W), about one-half of these 14,700 acres are located within southwestern Modoc County. The Area provides refuge and homes to species of waterfowl, owls, and pronghorn antelope. Local headquarters are located off SR 299; interior access is provided via County Roads 87 and 91. Its limited, primitive roads are maintained and or repaired through an annual CDFG budgeting process and are not included in this Plan.

Indian Reservation Road System

Funding through the FLHP-Indian Reservation Roads (IRR) category is available for selected projects on eligible roads; IRR mileage is shown in Table 7. In the past the BIA administered this program. With the enactment of SAFETEA-LU and subsequent MAP-21, tribes apply for IRR funding directly if they have demonstrated financial stability. To become part of the IRR system, a road must meet specific criteria. BIA assists tribes in preparing and maintaining a Tribal Transportation Plan.

Table 8: Indian Reservation Roads in Modoc County

Tribal Property	Paved	Gravel	Total
Alturas Rancheria	0.1	0.1	0.2
Cedarville Indian Rancheria	0.1	0	0.1
Fort Bidwell Indian Rancheria	3.6	0	3.6
Lookout Rancheria	0.2	0	0.2
Likely Rancheri (cemetary)	0	0.2	0.2
XL Rancheria	2.2	0	2.2
Total Miles	6.2	0.3	6.5

Source: BIA, 2013

Regional Roadway System

The Regional Roadway System includes roadways, bridges, and transportation facilities maintained by three public entities: State of California, County of Modoc, and City of Alturas. This roughly 1,200-mile transportation system is the focus of this Chapter. Brief discussions below describe the regional roadway system by jurisdiction. Following these, detailed characteristics of the regional network are described for a better understanding of existing conditions.

State Highways

State highways in Modoc County are all 2-lane paved routes, totaling 177.6 distance miles, which consist of US 395, SR 299, and SR 139. Specifically, SR 299 runs generally west to east from the southwestern portion of the County through the communities of Adin, Canby, Alturas, and Cedarville to the Nevada state line. US 395 runs in a south to north direction from the Lassen County line through the City of Alturas to the Oregon border. This highway is a common route for recreational travelers going from Eastern California and Nevada to destinations in Central and Eastern Oregon. SR 139 traverses the western portion of Modoc County through the communities of Adin, Canby, and Newell on its way to Tulelake in Siskiyou County. SR 139 provides the most direct route for recreational travelers from Eastern California and Nevada to Klamath Falls, Oregon and beyond.

These routes are part of the State Highway System (SHS), which consists of a total of 249 routes. The state highways in Modoc County serve local and interregional traffic. They provide lifeline accessibility for rural residents, and support interregional and interstate movements of people, goods, and recreational travel. Caltrans has jurisdiction and responsibility for these facilities. The State Highway Account is the Department's primary funding source for transportation projects under different programs, such as the State Highway Operation and Protection Program (SHOPP), the Interregional Transportation Improvement Program (ITIP), and the Minor programs.

State Highway Operation and Protection Program (SHOPP) is a four-year program which places projects in four categories: traffic safety, roadway rehabilitation, roadside rehabilitation, and system operations.

Interregional Transportation Strategic Plan (ITSP) - The State prepares the ITSP to provide long range planning for the interregional transportation system. The vision and objectives in the 2015 ITSP are significantly different than the objectives of the 1998 ITSP. The 1998 ITSP objectives focused on connecting all urban, urbanizing, and high-growth areas to the trunk system at expressway

or freeway standards; the objectives of the 2015 ITSP focus on improving the interregional movement of people and freight in a safe and sustainable manner that supports the economy.

The 2015 ITSP identifies 11 Strategic Interregional Corridors. These corridors typically carry high volumes of freight movement and significant recreational tourism. They are the most significant corridors in California. Within these corridors, the facilities most critical in supporting interregional transportation have been identified as Priority Interregional Facilities. These form a subset of the IRRS routes and major intercity passenger rail corridors.

With these significant shifts in the vision and objectives, there are no routes within Modoc County identified within the 2015 ITSP. In the 1998 ITSP portions of three state highways were classified as High Emphasis Routes (the full length of US395, SR 299 between Alturas and Canby, and SR 139 from Canby to the Oregon Border). This shift in strategies reduces potential funding sources that were marginally available from the 1998 ITSP.

County Roads

The maintained mileage of County Roads totals 982.87 miles of two-lane local roads. About 50 percent are paved. The main County Roads and respective functional classifications are included in Appendix F.

City Streets

Maintained by the City of Alturas, the City Streets inventory totals 36.1 miles of two-lane paved roads, most with curb and gutter. Figure 2 depicts the City-maintained roadway system and its functional classifications.



FIGURE 2 - CITY MAINTAINED ROAD SYSTEM - FUNCTIONAL CLASSIFICATION

Regional Roadway Characteristics

National Highway System

The NHS focuses federal resources on routes which are most important to interstate travel and the national defense, and roads that connect other modes of transportation or are essential for international commerce. The NHS is designed to maintain system connectivity within the State and with adjacent states. The NHS provides an interconnected system of principal arterial routes that serve major population centers, international border crossings, ports, airports, public transportation facilities, and other major travel destinations; meet national defense requirements; and serve interregional travel.

Federally mandated components of the NHS are 1) the Interstate Highways 2) other urban and rural principal arterials 3) intermodal connectors that provide motor vehicle access to major port, purport, public transportation facility, or other intermodal transportation facility, 4) the Strategic Highway Network (STRAHNET) which is a network of highways important to the US strategic defense policy and provides defense access, continuity, emergency capabilities for the movement of personnel, materials, and equipment in both peace time and war time, 5) major STRAHNET connectors which are listed in the Military Traffic Management Command's report, STRAHNET Connector Atlas, SE 89-4b-59, dated September 1991, and 6) High priority Corridors which have been predetermined by Congress.

Federal Aid System

Highways which are classified higher than local roads or rural minor collectors are collectively referred to as "Federal-aid Highways." New and continued programs provided under SAFETEA-LU and MAP 21 permit the use of federal funds on these types of facilities.

Other Public Roads

Although most federal highway funds are spent on "federal-aid highways," some federal funds may be used to finance improvements on local roads and rural minor collectors. Under the Highway Bridge Program (HBP), at least 15% of the State's bridge apportionment is to be used for bridge projects on roads classified as local or rural minor collectors. In addition, the Surface Transportation Program provides federal funds for bridge, safety, carpool related, and bicycle/pedestrian projects on any public road, regardless of classification.

Functional Classifications and Functional Classification Features

Streets and highways are grouped into classes or systems according to the character of service they are intended to provide. This process is called functional classification. An integral part of this process is the recognition that individual roads and streets do not serve travel independent from the rest of the highway system. Rather, most travel involves movement through a network of roads, so it is necessary to determine how this travel can be channelized within the network in a logical and efficient manner. Functional classification defines the nature of this channelization process by defining the role that any road or street should play in serving the flow of trips through a highway network. Functional classification can be applied in planning highway system development, determining the jurisdictional responsibility for systems, and in fiscal planning. Functional classification is also important in determining eligibility for federal-aid funding.

Urban

Urban Principal Arterials are a system of streets and highways that serves the major centers of activity of a metropolitan area, the highest traffic volume corridors, and the longest trip desires, and carry a high proportion of the total urban area travel on a minimum of mileage. The system is integrated, both internally and between major rural connections.

The principal arterial system carries the major portion of trips entering and leaving the urban area, as well as the majority of through movements desiring to bypass the central city. In addition, significant intra-area travels, such as between central business districts and outlying residential areas, between major communities, or between major suburban centers, are served by this system. Frequently, the principal arterial system will carry important intra-urban as well as intercity bus routes. Finally, this system in small urban and urbanized area provides continuity for all rural arterials which intercept the urban boundary.

Urban Minor Arterial street system interconnects with and augments the urban principal arterial system and provides service to trips of moderate length and a somewhat lower level of travel mobility than principal arterials. This street system also distributes travel to geographic areas smaller than those identified with the higher system.

The urban minor arterial street system includes all arterials not classified as principal arterials and contains facilities that place more emphasis on land access than the higher system and offer a lower level of traffic mobility. Such facilities may carry local bus routes and provide intra-community continuity, but ideally should not penetrate identifiable neighborhoods. This system includes urban connections to rural collector roads where such connections have not been classified as urban principal arterials.

Urban Collectors system provides both land-access service and traffic circulation within residential neighborhoods, commercial and industrial areas. It differs from the arterial system in that facilities on the collector system may penetrate residential neighborhoods, distributing trips from the arterials through the areas to the ultimate destination. Conversely, the collector street also collects traffic from local streets in residential neighborhoods and channels it into the arterial system. In the central business district and in other areas of like development and traffic density, the collector system may include the street grid which forms a logical entity for traffic circulation.

Urban Local Street (local roads) system comprises all facilities not on one of the higher systems. It serves primarily to provide direct access to abutting land and access to the higher systems. It offers the lowest level of mobility and usually contains no bus routes. Service to through traffic movement usually is deliberately discouraged.

Rural

Rural functional classes are in the areas outside of urban areas. These areas include many small towns that have a population less than 5,000. The classes are like the urban functional classes. The differences in the nature and intensity of development between rural and urban areas cause these systems to have characteristics that are somewhat different from the correspondingly named urban systems. Rural functional classes consist of 1) principal arterials, 2) minor arterials, 3) major collectors, 4) minor collectors, and 5) local streets.

Rural principal arterial system consists of a network of continuous routes that serve corridor movements with trip length and travel density characteristics indicative of substantial statewide or interstate travel. Rural principal arterials provide an integrated network without stub connections except where unusual geographic or traffic flow conditions dictate otherwise.

Rural minor arterial system forms a network linking cities, larger towns, and other traffic generators, such as resort areas capable of attracting travel over similarly long distances. Minor arterials, spaced at intervals consistent with population density, ensure that all developed areas of the State are within a reasonable distance of an arterial highway.

*Rural major collector*_system serves that larger towns not directly served by arterials and other traffic generators of intra-county importance.

Rural minor collectors are spaced at intervals consistent with population density, collect traffic from local roads and serve the remaining smaller communities.

Rural local streets primarily provide access to adjacent land and provide service to travel over relatively short distances as compared to collectors or other higher systems.

Table 8 provides an inventory of regional roadways by functional classification. Figures 2 and 3 show key regional roadways by classifications.

Traffic Volumes

To facilitate comparison on State highways from year-to-year, electronic counters at specific locations measure traffic volume. Actual counts are adjusted to estimate Average Daily Traffic (ADT) by compensating for seasonal fluctuation, weekly variation and other variables. Expressed in vehicles per day, annual ADT (AADT) is total traffic volume for one year divided by 365 days. AADT is used to portray statewide traffic flow, evaluate trends, compute accident rates, plan and design highways, and assorted purposes. Peak month ADT is the average daily traffic for the month with heaviest traffic flow. These data are obtained because on many routes, high traffic volumes during a certain season are more important for planning and highway design than AADT.

FIGURE 3: CITY OF ALTURAS PAVEMENT CONDITION

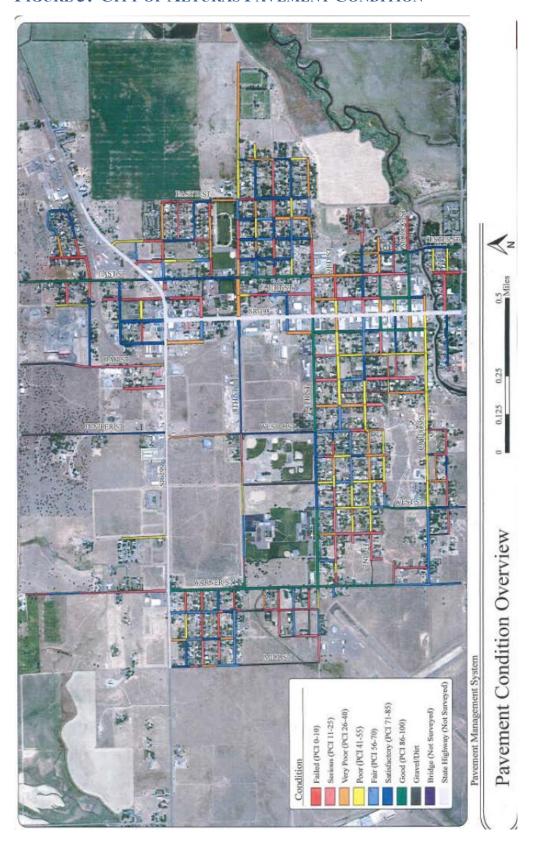


Table 9 City and County Recurring Revenues

	Sh	ort Range								
Source	19-	20-22/23	23	24-26/27	27/	28-30-31	31	/32-34/35	35/	36-38/39
City of Alturas										
Motor Vehicle In Lieu (VLF)	\$	546	\$	557	\$	568	\$	579	\$	591
All Gas Taxes	\$	255	\$	260	\$	265	\$	271	\$	276
Main Street	\$	30	\$	30	\$	30	\$	30	\$	30
St. Hwy Sweeping ⁽¹⁾	\$	20	\$	20	\$	20	\$	20	\$	20
Senate Bill 1	\$	326	\$	397	\$	-	\$	-	\$	-
Snow Removal ⁽²⁾	\$	20	\$	20	\$	20	\$	20	\$	20
Subtotal	\$	1,197	\$	1,284	\$	903	\$	920	\$	937
County of Modoc										
Gas Taxes	\$	2,784	\$	2,867	\$	2,953	\$	3,042	\$	3,133
Forest Reserves (S1608/HR2384	\$	178	\$	178	\$	178	\$	178	\$	178
RSTP	\$	1,184	\$	1,184	\$	1,184	\$	1,184	\$	1,184
Senate Bill 1	\$	11,290	\$	18,280	\$	-	\$	-	\$	-
State Match	\$	402	\$	402	\$	402	\$	402	\$	402
Subtotal	\$	15,838	\$	22,911	\$	4,717	\$	4,806	\$	4,897
Total	\$	17,035	\$	24,195	\$	5,620	\$	5,726	\$	5,834

Note 1: Reimbursement from Caltrans

Note 2: Reimbursement dependent upon snow accumulation

Source: City of Alturas, County of Modoc Road Department, 2014

Table 10: County of Modoc Roadway Improvement Projects

County Rd #	FC	Specific Location	Proposed Project Descrip.	Miles	Priority	CON Year	Cost in \$1,000s	Funding Source	Corresp. Goals	Perf. Indicator
91	04	CR 85A to SR 139	Road Rehab	16.10	2	2036	\$9,377	STIP	1,2,5	SP
91	04	Lassen County to CR 85	Road Rehab	11.10	2	2037	\$6,465	STIP	1,2,5	SP
1	05	Ft. Bidwell to end AC	Road Rehab	11.00	1	2038	\$6,406	STIP	1,2,5	SP
272	05	Lassen County to end AC	Road Rehab	3.12	2	2026	\$1,817	STIP	1,2,5	SP
111	05	SR139 to CR120	Road Rehab	5.58	2	2028	\$3,250	STIP	1,2,5	SP
120	05	CR111 to end dike	Road Rehab	1.59	2	2028	\$926	STIP	1,2,5	SP
108	05	CR111 to Drain 10 Road	Road Rehab	1.52	2	2028	\$885	STIP	1,2,5	SP
87	05	Adin to Lookout	Road Rehab	11.28	3	2029	\$6,569	STIP	1,2,5	SP
54	05	Canby to Alturas	Road Rehab	20.67	3	2030	\$12,038	STIP	1,2,5	SP
48	05	US395 to end AC	Road Rehab	5.76	3	2031	\$3,355	STIP	1,2,5	SP
1	05	Cedarville to Eagleville	Road Rehab	14.00	3	2032	\$8,154	STIP	1,2,5	SP
1	05	Eagleville to Lassen	Road Rehab	11.00	3	2034	\$6,406	STIP	1,2,5	SP
			Totals	112.72			\$65,648			

Table 11 Modoc County Special Funding Program Improvement Projects

FC	Location	Project Descrip.	Miles	Priority	CON Year	Cost in \$1,000s	Fund source	Goals	Perf. Indicator
7	CR 258 to Blue Lake Campground	Road Rehab	6.6	1	2022	\$6,710	FHLP	1, 2, 4, 5, 6	SP
6	Jess Valley Rd - US395 to Mill Ck Falls Campground	Road Rehab	14.1	2	2030	\$4,113	FHLP	1, 2, 4, 5, 7	SP
6	Parker Ck Rd - CR58 to Forest boundary	Road Rehab	6.6	2	2028	\$12,245	FHLP	1, 2, 4, 5, 8	SP
6	Tionesta Rd - SR139 to FDR 44N01	Road Rehab	9.2	1	2026	\$6,245	FHLP	1, 2, 4, 5, 9	SP
	•		Forest H	way Projec	cts Total	\$29,313		•	•
Var	Various	Remove obstacles, safety improvements	0	2	TBD	\$757	HSIP/ Local	2, 4	s
Var	Various	Remove obstacles, safety improvements	0	2	TBD	\$692	HSIP/ Local	2, 4	S
			H	SIP Projec	ts Total	\$1,449			

Table 12 Modoc County Financially Unconstrained list

							Total Cost (1,000s)			
Facility No.	NEW FC	Specific Location	Proposed Project Description	Miles	Priority ⁽¹⁾	Construct Year	2019/20 Dollars	Funding Source	Corresp. Goals	Perf. Indicator
CR 91	04	CR 85A to SR 139	Road Rehabilitation	16.10	2	2036	\$7,213	STIP	1,2,5	SP
CR 91	04	Lassen County to CR 85	Road Rehabilitation	11.10	2	2037	\$4,973	STIP	1,2,5	SP
CR 1	05	Cedarville to Ft. Bidwell	Road Rehabilitation	25.80	1	2038	\$5,032	STIP	1,2,5	SP
CR 1	05	Ft. Bidwell to end AC	Road Rehabilitation	11.00	1	2038	\$4,928	STIP	1,2,5	SP
CR 55	05	US395 to end AC	Road Rehabilitation	3.50	1	2024	\$1,568	STIP	1,2,5	SP
CR 272	05	Lassen County to end AC	Road Rehabilitation	3.12	2	2026	\$1,398	STIP	1,2,5	SP
CR 111	05	SR139 to Oregon border	Road Rehabilitation	5.90	2	2022	\$2,643	STIP	1,2,5	SP
CR 111	05	SR139 to CR120	Road Rehabilitation	5.58	2	2028	\$2,500	STIP	1,2,5	SP
CR 120	05	CR111 to end dike	Road Rehabilitation	1.59	2	2028	\$712	STIP	1,2,5	SP
CR 108	05	CR111 to Drain 10 Road	Road Rehabilitation	1.52	2	2028	\$681	STIP	1,2,5	SP
CR 87	05	Adin to Lookout	Road Rehabilitation	11.28	3	2029	\$5,053	STIP	1,2,5	SP
CR 54	05	Canby to Alturas	Road Rehabilitation	20.67	3	2030	\$9,260	STIP	1,2,5	SP
CR 48	05	US395 to end AC	Road Rehabilitation	5.76	3	2031	\$2,580	STIP	1,2,5	SP
CR 114	05	CR101 to SR139	Road Rehabilitation	6.00	3	2031	\$2,688	STIP	1,2,5	SP
CR 1	05	Cedarville to Eagleville	Road Rehabilitation	14.00	3	2032	\$6,272	STIP	1,2,5	SP
CR 1	05	Eagleville to Lassen	Road Rehabilitation	11.00	3	2034	\$4,928	STIP	1,2,5	SP
9	06	US 395 to end AC	Road Rehabilitation	4.584	TBD	TBD	\$924	Local	1,2,5	SP
17	06	CR 1 to CR 18	Road Rehabilitation	3.50	TBD	TBD	\$706	Local	1,2,5	SP
18	06	CR 1 to CR 17	Road Rehabilitation	1.06	TBD	TBD	\$214	Local	1,2,5	SP
56	06	US 395 to end AC	Road Rehabilitation	13.42	TBD	TBD	\$2,705	Local	1,2,5	SP
58	06	SR 299 to CR 56	Road Rehabilitation	7.02	TBD	TBD	\$1,415	Local	1,2,5	SP
60	06	CR 54 to CR 189	Road Rehabilitation	16.50	TBD	TBD	\$3,326	Local	1,2,5	SP
64	06	US 395 to CR 258	Road Rehabilitation	9.57	TBD	TBD	\$1,929	Local	1,2,5	SP
71	06	CR 54 to end AC	Road Rehabilitation	18.43	TBD	TBD	\$3,715	Local	1,2,5	SP
73	06	SR 299 to CR 74	Road Rehabilitation	2.14	TBD	TBD	\$431	Local	1,2,5	SP
75	06	SR 299 to CR 54	Road Rehabilitation	5.20	TBD	TBD	\$1,048	Local	1,2,5	SP
88	06	SR 299 to end AC	Road Rehabilitation	0.50	TBD	TBD	\$101	Local	1,2,5	SP
		•	Sub Totals	235.84	•		\$78,946	•	•	

Table 12 continued from previous page

94	06	CR 93 to end AC	Road Rehabilitation	2.00	TBD	TBD	\$403	Local	1,2,5	SP
97	06	SR139 to Railroad	Road Rehabilitation	4.50	TBD	TBD	\$907	Local	1,2,5	SP
101	06	CR 111 to CR 114	Road Rehabilitation	4.34	TBD	TBD	\$875	Local	1,2,5	SP
104	06	CR 114 to Osborne Rd	Road Rehabilitation	7.65	TBD	TBD	\$1,542	Local	1,2,5	SP
113	06	SR139 to CR 104	Road Rehabilitation	5.09	TBD	TBD	\$1,026	Local	1,2,5	SP
121	06	SR 139 to CR 120	Road Rehabilitation	4.25	TBD	TBD	\$857	Local	1,2,5	SP
189	06	US 395 to CR 60	Road Rehabilitation	2.10	TBD	TBD	\$423	Local	1,2,5	SP
2	07	US 395 to end AC	Road Rehabilitation	1.15	TBD	TBD	\$232	Local	1,2,5	SP
10	07	CR 1 to CR 1	Road Rehabilitation	0.52	TBD	TBD	\$105	Local	1,2,5	SP
11	07	US 395 to end AC	Road Rehabilitation	0.80	TBD	TBD	\$161	Local	1,2,5	SP
45	07	CR 2 to CR 43	Road Rehabilitation	0.36	TBD	TBD	\$73	Local	1,2,5	SP
57	07	US 395 to end AC	Road Rehabilitation	4.58	TBD	TBD	\$923	Local	1,2,5	SP
59	07	CR 115 to CR 57	Road Rehabilitation	1.99	TBD	TBD	\$401	Local	1,2,5	SP
72	07	CR 71 to end AC	Road Rehabilitation	2.44	TBD	TBD	\$492	Local	1,2,5	SP
76	07	CR 54 to CR 75	Road Rehabilitation	2.28	TBD	TBD	\$459	Local	1,2,5	SP
78	07	CR 221 to CR 78D	Road Rehabilitation	0.77	TBD	TBD	\$155	Local	1,2,5	SP
79	07	City limits to end AC	Road Rehabilitation	0.75	TBD	TBD	\$151	Local	1,2,5	SP
81	07	US 395 to end AC	Road Rehabilitation	1.37	TBD	TBD	\$276	Local	1,2,5	SP
83	07	SR 299 to SR139	Road Rehabilitation	0.89	TBD	TBD	\$179	Local	1,2,5	SP
101	07	SR 139 to CR 111	Road Rehabilitation	0.85	TBD	TBD	\$171	Local	1,2,5	SP
105	07	CR 111 to Drain 10	Road Rehabilitation	2.13	TBD	TBD	\$429	Local	1,2,5	SP
108	07	CR 111 to end AC	Road Rehabilitation	4.10	TBD	TBD	\$827	Local	1,2,5	SP
112	07	SR 139 to CR 108	Road Rehabilitation	7.04	TBD	TBD	\$1,418	Local	1,2,5	SP
115	07	US 395 to CR 56	Road Rehabilitation	6.24	TBD	TBD	\$1,258	Local	1,2,5	SP
117	07	CR 17 to CR 1	Road Rehabilitation	0.56	TBD	TBD	\$113	Local	1,2,5	SP
119	07	All Paved	Road Rehabilitation	0.96	TBD	TBD	\$194	Local	1,2,5	SP

Sub Totals 73.42 \$14,801

Table 12 continued from previous page

Facility No.	NEW FC	Specific Location	Proposed Project Description	Miles	Priority ⁽¹⁾	CON Year	Total Cost (1,000s) 2012/13 Dollars	Funding Source	Correspo nding Goals	Perf Indic	
189	07	CR 60 to US 395	Road Rehabilitation	0.90	TBD	TBD	\$181	Local	1,2,5	SP	П
192	07	All Paved	Road Rehabilitation	0.79	TBD	TBD	\$160	Local	1,2,5	SP	1
198	07	All Paved	Road Rehabilitation	1.11	TBD	TBD	\$224	Local	1,2,5	SP	1
230	07	All Paved	Road Rehabilitation	0.94	TBD	TBD	\$190	Local	1,2,5	SP	Ī
236	07	All Paved	Road Rehabilitation	1.05	TBD	TBD	\$212	Local	1,2,5	SP	Ī
243	07	All Paved	Road Rehabilitation	0.59	TBD	TBD	\$119	Local	1,2,5	SP	1
244	07	All Paved	Road Rehabilitation	0.33	TBD	TBD	\$66	Local	1,2,5	SP	Ī
245	07	All Paved	Road Rehabilitation	0.72	TBD	TBD	\$146	Local	1,2,5	SP	Ī
246	07	All Paved	Road Rehabilitation	0.97	TBD	TBD	\$196	Local	1,2,5	SP	Ī
250	07	All Paved	Road Rehabilitation	0.63	TBD	TBD	\$127	Local	1,2,5	SP	Ī
251	07	All Paved	Road Rehabilitation	0.27	TBD	TBD	\$53	Local	1,2,5	SP	Ī
252	07	All Paved	Road Rehabilitation	0.28	TBD	TBD	\$56	Local	1,2,5	SP	Ţ
258	07	All Paved	Road Rehabilitation	6.57	TBD	TBD	\$1,325	Local	1,2,5	SP	Ī
268	07	All Paved	Road Rehabilitation	1.80	TBD	TBD	\$363	Local	1,2,5	SP	Ī
11a	07	All Paved	Road Rehabilitation	0.11	TBD	TBD	\$23	Local	1,2,5	SP	Ī
247a	07	All Paved	Road Rehabilitation	1.22	TBD	TBD	\$247	Local	1,2,5	SP	Ī
59b	07	All Paved	Road Rehabilitation	2.26	TBD	TBD	\$456	Local	1,2,5	SP	Ī
78 abcd	07	All Paved	Road Rehabilitation	1.20	TBD	TBD	\$242	Local	1,2,5	SP	Ī
Adin	07	All Paved	Road Rehabilitation	1.80	TBD	TBD	\$363	Local	1,2,5	SP	Ī
Alturas	07	All Paved	Road Rehabilitation	0.30	TBD	TBD	\$60	Local	1,2,5	SP	Ţ
Cedarville	07	All Paved	Road Rehabilitation	5.19	TBD	TBD	\$1,046	Local	1,2,5	SP	
Ft Bidwell	07	All Paved	Road Rehabilitation	1.30	TBD	TBD	\$262	Local	1,2,5	SP	Ţ
Lake City	07	All Paved	Road Rehabilitation	1.62	TBD	TBD	\$327	Local	1,2,5	SP	
Lookout	07	All Paved	Road Rehabilitation	0.71	TBD	TBD	\$142	Local	1,2,5	SP	Ţ
Newell	07	All Paved	Road Rehabilitation	3.09	TBD	TBD	\$623	Local	1,2,5	SP	1
New Pine Ck	07	All Paved	Road Rehabilitation	0.34	TBD	TBD	\$69	Local	1,2,5	SP	Ţ
			Sub Totals	36.10			\$7,278				
various	05/06	All Above Major & Minor Collectors	Interim Chipseals (twice during 20 yr. period)	309.3	on going	TBD	\$9,055	Local	1,2,5	SP	Ι
various	07	Local County Roads - Paved	Initial & Mid-Period Overlays and Two Chipseals	185.9	on going	TBD	\$90,971	Local	1,2,5	SP	g ₀
various	07	Local County Roads - Gravel	Initial 6" Aggregate and Mid- Period 3" Aggregate	489.5	on going	TBD	\$65,789	Local	1,2,5	SP	δū

1330.0 **Total Estimated Cost** \$266,839

Estimate Assumptions: All County Roads have two lanes. Major and Minor Collectors (05&06) estimates based on average cost per mile for County STIP projects, \$400,000. 20-foot local roads cost estimated based on: overlay = \$180,000 per mile, chipseal = \$30,000 per mile, 3" layer aggregate = \$30,000. Routine maintenance is not included.

Note 1: Priority Nos: 1= Short Term (FY2019-2024), 2= Mid Term (FY2025-2030), 3= Long Term (FY2031-2041).

Note 2: An annual growth rate of 3.2% was applied to construction costs to account for inflation. The rate is based on the growth of the Engineering News Record's Construction Cost Index for San Francisco from December 1995 to December 2006. Long-term projects with unknown construction dates were adjusted to reflect 15 years of inflation.

Note 3: Project List (P) = project programmed or listed current RTIP; Inventory (I) = Project is part of the long-term inventory and not likely to be built within the next 6-8 years.

Table 13: Modoc County Future Bridge Projects

Facility No.	Bridge No.	Specific Location	Proposed Project Description	Priority ⁽¹⁾	Const Year		l Cost 100s)	Fund Source	Related Goals	Perf. Indicator	Project List/ Inventory ⁽³⁾
CR 61	3C0038	Eastside Canal	Replace arch plate culvert	1	2021	\$	165	Local	1,2,5	S / SP	P
CR 54	3C0016	No. Branch Pit River	Scour Counter Measures	1	2020	\$	420	HBP	2,4,5	S / SP	I
CR 54	3C0017	Middle Branch Pit River	Scour Counter Measures	1	2020	\$	420	HBP	2,4,5	S / SP	I
CR 54	3C0018	So. Branch Pit River	Scour Counter Measures	1	2022	\$	420	HBP	2,4,5	S / SP	I
CR 1	3C0053	Bidwell Creek	Strengthen bridge	2	2022	\$	1,673	HBP	1,2,5	S / SP	I
CR 75	3C0091	Pit River	Bridge Replacement	2	2025	\$	2,010	HBP	1,2,5	S / SP	I
CR 1	3C0080	Owl Creek	New Bridge Rail	3	TBD	\$	83	HBP	2,5	S / SP	I
CR 108	3C0119	D Canal	Bridge Replacement	3	TBD	\$	1,343	Local	1,2,5	S / SP	I
CR 111	3C0064	J Canal	New Bridge Rail	3	TBD	\$	83	HBP	2,5	S / SP	I
CR 111	3C0065	No 46 Drain	New Bridge Rail	3	TBD	\$	83	HBP	2,5	S / SP	I
CR 111	3C0066	J14B Canal	New Bridge Rail	3	TBD	\$	83	HBP	2,5	S / SP	I
CR 111	3C0067	45D Drain	New Bridge Rail	3	TBD	\$	83	HBP	2,5	S / SP	I
CR 111	3C0068	J14A Canal	New Bridge Rail	3	TBD	\$	83	HBP	2,5	S / SP	I
CR 17		Soldier Creek	Widen bridge & rails	3	TBD	\$	300	Local	2,5	S / SP	I
CR 198	3C0075	Rush Creek	Bridge Replacement	3	TBD	\$	1,343	HBP	1,2,5	S / SP	I
CR 215	3C0076	Howards Gulch	New Bridge Rail	3	TBD	\$	83	HBP	2,5	S / SP	I
CR 215	3C0077	Howards Gulch	New Bridge Rail	3	TBD	\$	83	HBP	2,5	S / SP	I
CR 224	3C0087	Bidwell Creek	Bridge Replacement	3	TBD	\$	1,343	HBP	2,5	S / SP	I
CR 258	3C0116	So. Fork Pit River	New Bridge Rail	3	TBD	\$	83	HBP	2,5	S / SP	I
CR 56	3C0111	Alturas Creek	New Bridge Rail	3	TBD	\$	83	HBP	2,5	S / SP	I
CR 60	3C0039	Westside Canal	New Bridge Rail	3	TBD	\$	83	HBP	2,5	S / SP	I
CR 64	3C0045	Pit River, South Fork	Strengthen Bridge	3	TBD	\$	2,543	HBP	1,2,5	S / SP	I
CR 86	3C0118	Rush Creek	Bridge Replacement	3	TBD	\$	1,343	HBP	1,2,5	S / SP	I
CR 87	3C0070	Pit River Slough	New Bridge Rail	3	TBD	\$	59	HBP	2,5	S / SP	I
				Total Esti	mated Cost	s	14,286				

Note 2: Annual growth rate 3.2% applied to construction costs to account for inflation. The rate is based on the growth of the Engineering News Record's Construction Cost Index for San Francisco from Dec. 1995 to Dec. 2006. Long-term projects with no construction dates were adjusted to reflect 15 years of inflation.

Table 14: City of Alturas STIP and SB 1 Projects

	Street	From	To	Project Type	Cost in
	Street	Trom	10	Troject Type	\$1,000s
	Court	1st	4th	Rehab	530
	Nagle	4th	8th	Rehab	1000
o l	West C	1st	12th (SR299)	Rehab	770
ang	Court	4th	8th	Rehab	1000
ر ج	8th	Main	End (incl intersections)	Rehab	900
Short Range	4th	Main	Josephine	Rehab	950
02	E 6th St	East	Josephine	Rehab	975
	Carlos	West	Main	Preventative Maint	325
	Warner	12th	Carlos	Preventative Maint	525
	2nd St	Short	End (near Warner)	Rehab	1400
96	3rd St	E of East	Warner	Rehab	1800
Range	W B St	4th	End	Rehab	500
Long	W A St	4th	End	Rehab	650
្ន	Caldwell St	3rd	Carlos	Rehab	750
	S East St/Water	CR 56	Main	Rehab	450
			<u> </u>	Total Estimated Cost	12,525

Table 15: City Unconstrained Street Improvement Projects

Street	Funct Classif.	From	То	Project type	Miles	Cost (1,000s)	RTP Goals
Archer	07	East A	East A	Rehab	0.34	\$ 892	1, 2, 5
Bond	07	Warner	Smith	Rehab	0.17	\$ 445	1, 2, 5
Bonner	07	4th	12th (SR 299)	Rehab	0.52	\$ 1,388	1, 2, 5
Caldwell	07	Carlos	2nd	Rehab	0.21	\$ 562	1, 2, 5
Carlos	07	Court	Main (US 395)	Rehab	0.05	\$ 141	1, 2, 5
Carlos	05	Main (US 395)	Warner	Rehab	1.00	\$ 2,644	1, 2, 5
Cedar	07	3rd	Kemble	Rehab	0.10	\$ 259	1, 2, 5
Court	07	Carlos	18th	Rehab	1.15	\$ 3,049	1, 2, 5
Danhauser	07	Henderson	4th	Rehab	0.32	\$ 848	1, 2, 5
East	05	CR56	Riverside	Rehab	0.11	\$ 283	1, 2, 5
East A	07	Archer	5th	Rehab	0.71	\$ 1,869	1, 2, 5
East B	07	2nd	12th (SR 299)	Rehab	0.65	\$ 1,730	1, 2, 5
East C	07	4th	8th	Rehab	0.25	\$ 665	1, 2, 5
East D	07	4th	12th	Rehab	0.50	\$ 1,322	1, 2, 5

Table 15 – City Unconstrained Street Projects- continued

Estes	05	Modoc	2nd	Rehab	0.21	\$ 545	1, 2, 5
Forrest	07	So. East	Estes	Rehab	0.10	\$ 266	1, 2, 5
Henderson	07	Main (US 395)	Poplar	Rehab	0.58	\$ 1,528	1, 2, 5
Howard	07	Carlos	5th	Rehab	0.48	\$ 1,277	1, 2, 5
Josephine	07	4th	8th	Rehab	0.25	\$ 665	1, 2, 5
Juniper	07	12th (SR 299)	City Limit	Rehab	0.45	\$ 595	1, 2, 5
Kemble	07	Warner	Smith	Rehab	0.26	\$ 699	1, 2, 5
North Main	07	12th (SR 299)	14th	Rehab	0.14	\$ 383	1, 2, 5
Maple	07	10th	14th	Rehab	0.26	\$ 691	1, 2, 5
Mill	07	8th	12th (SR 299)	Rehab	0.21	\$ 565	1, 2, 5
Modoc	05, 07	Howard	RR tracks	Rehab	0.28	\$ 749	1, 2, 5
Nagle	07	Henderson	4th	Rehab	0.32	\$ 846	1, 2, 5
North	07	RR tracks	West A	Rehab	0.44	\$ 1,173	1, 2, 5
Oak St	07	12th (SR 299)	19th St	Rehab	0.45	\$ 595	1,2,5
Park	07	West C	Poplar	Rehab	0.37	\$ 966	1, 2, 5
Pine	07	12th (SR 299)	14th	Rehab	0.14	\$ 383	1, 2, 5
Poplar	07	2nd	4th	Rehab	0.19	\$ 499	1, 2, 5
Rine	07	Carlos	4th	Rehab	0.39	\$ 1,032	1, 2, 5
Riverside	07	So. East	Estes	Rehab	0.10	\$ 266	1, 2, 5
Short	07	East End	East B	Rehab	0.07	\$ 191	1, 2, 5
Smith	07	4th	12th (SR 299)	Rehab	0.38	\$ 1,014	1, 2, 5
Spruce	07	12th (SR 299)	14th	Rehab	0.14	\$ 383	1, 2, 5
Thomason	07	12th (SR 299)	14th	Rehab	0.13	\$ 342	1, 2, 5
Warner	05	12th (SR 299)	19th	Rehab	0.51	\$ 1,359	1, 2, 5
Warner	05	Park	Carlos	Rehab	0.17	\$ 449	1, 2, 5
West	05	CR54	4th	Rehab	0.50	\$ 1,322	1,2,5
West A	07	South End	4th	Rehab	0.37	\$ 969	1, 2, 5
West B	07	1st	4th	Rehab	0.25	\$ 649	1, 2, 5
West C	05	South End	2nd	Rehab	0.19	\$ 499	1, 2, 5
Western	07	West C	West	Rehab	0.27	\$ 724	1, 2, 5

Table 15 – City Unconstrained Street Projects- continued

1st	07	RR tracks	Caldwell	Rehab	0.55	\$ 1,456	1, 2, 5
2nd	07	East B	Poplar	Rehab	1.12	\$ 2,960	1, 2, 5
3rd	07	RR tracks	Warner	Rehab	1.15	\$ 3,029	1, 2, 5
4th	07	Josephine	East	Rehab	0.41	\$ 1,078	1, 2, 5
5th	05	Josephine	Smith	Rehab	0.72	\$ 1,902	1, 2, 5
6th	07	Josephine	Smith	Rehab	0.58	\$ 1,544	1, 2, 5
7th	07	Josephine	East	Rehab	0.42	\$ 1,099	1, 2, 5
8th	05	East End	Mill	Rehab	0.88	\$ 2,331	1, 2, 5
9th	07	East D	Mill	Rehab	0.52	\$ 1,365	1, 2, 5
10th	07	East D	Mill	Rehab	0.59	\$ 1,552	1, 2, 5
11th	07	East D	Mill	Rehab	0.39	\$ 1,028	1, 2, 5
12th	07	East D	Court	Rehab	0.33	\$ 878	1, 2, 5
13th	07	East B	Maple	Rehab	0.21	\$ 561	1, 2, 5
14th	07	East	Maple	Rehab	0.34	\$ 911	1, 2, 5
16th	07	East A	Oak	Rehab	0.36	\$ 944	1, 2, 5
17th	07	East	Court	Rehab	0.08	\$ 216	1, 2, 5

City Unconstrained Projects Total

\$ 60,578

Note 1: An annual growth rate of 3.2% was applied to construction costs to account for inflation. The rate is based on the growth of the Engineering News Record's Construction Cost Index for San Francisco from December

Source: City of Alturas 2019

Table 16: State SHOPP Projects

SHOPP	Route	back PM	ahead PM	Activity/	Project Name	Location	CON Year	Total
Cycle				Category				Cost\$1,000
								s
2014	299	0.51	1.02	Bridge	Butte and Ash Creek	Near Adin, Butte Ck Brdg #03-001 and Ash	2019	\$10,836.00
					Bridge Replacement	Ck Brdg # 03-002		
2014	299	23.34		Bridge	Caldwell Ck Bridge	Near Canby, at Caldwell Ck Brdg # 03-0028	2018	\$3,320.00
					Replacement			
2018	249	R2.5	30.5	Drainage	Modoc 139 Drainage	Canby and North of Canby	2022	\$3,656.00
2014	299	24.5	33.5	Pavement	Caldwell Ck Rehab	Near Alturas, from 1.1 miles E of Caldwell	2018	\$22,749.00
						Ck Bridge to 1.7 Miles W of CR 75		
2016	299	51.9	52.5	Safety	East Cedar Pass Safe	In Modoc, Near Cedarville from 0.6 miles	2018	\$8,454.00
						W of Cedar Pass Ski Tow Road to Cedar		
						Pass Ski Tow Road		
2022	395	9	27.5	Pavement	South Alturas Rehab	S Alturas CAPM; MOD PM 40.40 to 40.63	2025	\$32,323.00
						in Modoc near Alturas from .2 miles N of		
						Lyneta Rd to .5 mile N of Parker Ck Rd		
2022	299	56.7	58	Pavement	Cedarville ADA	Cedarville ADA and CAPM in and near	2025	¢22.122.00
2022	299	30.7	30	Pavement	Cedarville ADA		2023	\$22,122.00
						Cedarville from 0.2 miles W of Patterson St		
						to 0.6 miles E of Hays St.		****
						Caltrans SH	OPP Total	\$103,460

Table 17: Tribal Transportation Improvement Projects

Functional							Con	Cost in	Fund	Relate	
Classification	Location	Type	Jurisdiction	Miles	Priority	Project Description	Year	\$1,000s	Source	Goals	
Alturas Ranche	eria										
09		Culvert	BIA	0	2	Replace culvert	TBD	N/A	IRR	1, 3	
Cedarville Ran	cheria										
	Rancheria Way; Bonner Rd;										
09	Johnstone Rd	Unimproved	BIA	0.3	1	Gravel to paved	TBD	\$671	IRR	1, 3, 4	
ort Bidwell In	idian Community										
09	Water Tank Rd	Unimproved	Future BIA	0	2	Road to new housing	TBD	N/A	IRR	3	
09	Hot Springs Rd to County Cemetary	Unimproved	BIA	0	2	Road to new housing	TBD	N/A	IRR	3	
Pit River XL T	ribe										
09	XL Cemetary Rd	N/A	BIA	0	1	Reconstruct Rd	TBD	\$37	IRR	1, 2, 5	
09	XL Thomas Creek Rd	Unimproved	Tribe	1	1	Reconstruct Rd	TBD	\$903	IRR	1, 3, 4	
09	Lookout- Lookout Dr Cul de Sac	Unimproved	County	0.25	1	Pave/into BIA Syst.	TBD	\$114	IRR	1, 3, 4	
09	Lookout Cemetary Rd	Unimproved	Tribe	0.1	1	New gravel access rd	TBD	\$45	IRR	1, 2, 5	
09	Likely Cemetary Rd	Proposed	County	0.2	2	New gravel access rd	TBD	\$224	IRR	3	
Total Tribal Future Projects \$1,994											

Source: U.S. Department of Interior, Bureau of Indian Affairs, Northern California Agency

Historical AADT volumes on State Routes from 2012 to 2017 are shown in Table 18. In 2017, the highest AADT volume on State highways in Modoc County (7,900) was observed on US 395 (Main Street) at the junction of SR 299 West and US 395. These volumes indicate a mix of local and interregional traffic. Peak month ADT (typically August) demonstrates seasonal traffic trends. An analysis of peak month ADT volumes indicates that activity dropped more than average annual daily traffic on SR 139, but grew more than average annual daily traffic on US 395. Overall, peak month traffic around Alturas has increased while outer segments of SR 299 near the Nevada border have had larger decreases in traffic activity.

Table 18 State Peak Month Average Daily Traffic Volumes

							Change 2	012-2017			
Hwy/Counter Location	2012	2013	2014	2015	2016	2017	Absolute	Percent			
		State F	Route 139								
Adin, South Junction SR 299 (0.23)	650	650	810	810	810	1100	450	69%			
Lookout/Hackamore Roads (17.35)	1550	1550	1350	1350	1350	1650	100	6%			
Newell (44.505)	1600	1600	1650	1650	1650	2550	950	59%			
County Road to Malin (40.45)	1550	1550	1500	1500	1500	1950	400	26%			
Modoc/Siskiyou County Line (50.684)	2150	2150	2600	2600	2600	3200	1050	49%			
State Route 299											
Adin, Junction SR 139 (0.332)	1050	1050	1000	1000	1000	1100	50	5%			
Jct. Rte. 139 North (21.749)	1150	1150	1150	1150	1150	1600	450	39%			
Canby Ranger Sta LT (22.435)	2000	2000	1950	1950	1950	1850	-150	-8%			
Alturas, Juniper Street (40.276)	1850	1850	1800	1800	1800	1850	0	0%			
Alturas, Jct. RTE. 395 (40.63)	4500	4500	4550	4550	4550	5300	800	18%			
Lake City Road (57.354)	1500	1500	800	800	800	790	-710	-47%			
Nevada State Line (66.632)	300	300	100	100	100	120	-180	-60%			
		US Hig	hway 395								
Likely, Jess Valley Road (3.216)	1150	1150	980	980	1050	1800	650	57%			
Glenn Street (R20.975)	1650	1650	1550	1550	1650	1900	250	15%			
Alturas, First Street (22.07)	6400	6400	6000	6000	6300	7400	1000	16%			
Alturas, Jct. Rte. 299 West (22.764)	7100	7100	6600	6600	6900	7900	800	11%			
Alturas, State Hwy Maint Sta (23.04)	3200	3500	3150	3300	3450	3950	750	23%			
Jct. Rte. 299 East (28.285)	1750	1750	1600	1700	1800	3600	1850	106%			
Oregon State Line (61.563)	950	1000	920	960	1050	2050	1100	116%			
Source: Caltrans, Traffic Volumes on the Californ	nia State High	way System, .	2012-2017								

State projections for Estimated Future Annual Average Daily Traffic is included in Table 19 below. Based on low population and low growth estimates, the region is not anticipating any significant changes in the ADT through 2030.

Table 19: State Highway Estimated Future Annual Average Daily Traffic (2010-2030)

State H	lighway Estimated Future Annual Average Da	ily Traffic (2	2010-2030)
	State Route 139			
Post Mile	Highway / Counter Location	2010	2011	2030*
.23B	Adin, South Junction SR 299	450	450	500
17.35B	CR 91 (Lookout-Hackmore Road)	910	1000	1400
44.5B	Newell	1250	1150	1250
	State Route 299	•	•	
Post Mile	Highway / Counter Location	2010	2011	2030*
.332B	Adin, West of Junction SR 139	1000	950	1000
.332A	Adin, East of SR 139	1450	1300	1400
40.63B	Alturas, West of Junction US 395	4300	4250	4600
40.63A	Alturas, East of Junction US 395	760	950	1000
	US Highway 395			
Post Mile	Highway / Counter Location	2010	2011	2030*
3.216A	Likely, North of CR 64 (Jess Valley Road)	1400	1100	1200
22.07A	Alturas, First Street	7000	6100	6120
23.04B	Alturas, State Hwy Maintenance Station	2950	2900	2950
28.29B	Junction SR 299 East	1800	1550	1550
*Estimate	•	'	•	

Traffic Conditions

Due to relatively low population levels, the region is generally free of traffic congestion, except at key intersections during peak periods or when caused by special events, extreme weather conditions, accidents, or other incidents.

Level of Service

Level of Service (LOS) is used to rate roadway traffic flow characteristics. LOS is an indicator of roadway performance, and is a measure used to determine when roadway capacity needs to be improved. LOS for rural 2-lane highways is determined largely by roadway geometry factors, such as grades, vertical and horizontal curves, and presence of passing opportunities. In mountainous topography and particularly through canyons, roadway LOS can be relatively poor, even with low traffic volumes.

Caltrans periodically measures traffic volume on state highways and calculates "peak conditions" using the 30th highest hourly volume measured for one year. On some roadway segments in Modoc County, LOS is affected by terrain and elevation change, as opposed to traffic volumes. Such conditions cause drivers to slow, leading to sporadic isolated traffic queuing. All systems are functioning at A or B and LOS will be monitored.

Traffic Accidents

According to California Highway Patrol (CHP), annual County Road accidents have decreased over 50% from 30 total accidents in 2016, to 13 total accidents in 2017. In 2018 there were 22 total

accidents, up slightly from 2017. The charts below categorize 2018 total accidents by type and contributing factors.

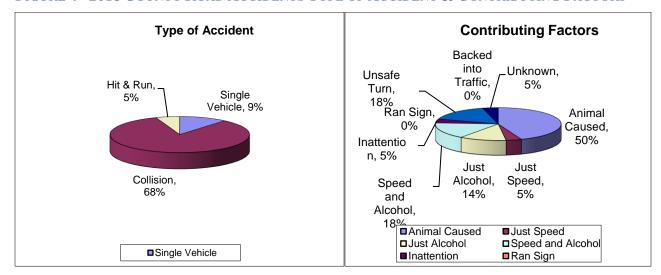


FIGURE 4 - 2018 COUNTY ROAD ACCIDENTS TYPE OF ACCIDENT & CONTRIBUTING FACTORS

The Modoc County Road Department actively pursues grant funding to improve roads that have high accident rates. The State also assesses high concentration of accidents routes/segments and utilizes funding to improve the safety of the highway.

INTELLIGENT TRANSPORTATION SYSTEMS (ITS)

Regional ITS Architecture

The U.S. Congress enacted the Intelligent Transportation System Architecture and Standards, which became effective on February 7, 2001. The intent of these regulations is to mainstream ITS within the transportation planning and programming processes, and to encourage ITS deployment and system integration MCTC adopted the Modoc ITS Architecture in 2005 and follows the ITS Architecture and Standards.

Regional ITS Architecture is the foundation for planning, coordinating, and implementing advanced technology transportation projects. ITS architecture includes comprehensive management strategies and applied technologies in an integrated manner to improve efficiency and safety on transportation facilities in the region. Examples of ITS projects include road weather information systems, tourism enhancements, specific safety applications, and inter-community transit service information. Often projects cross jurisdictional boundaries; it is important to integrate different agency ITS systems.

Bridges

Seventy-seven bridges in Modoc County are maintained by public agency funding. By definition, "bridges" are structures at least 20 feet in length. There are similar, shorter structures in Modoc County that do not meet this definition and are thus not included in the discussion. However, it must be noted that federal or state programs do not support these shorter structures. Most bridge improvement projects were previously financed through the federal Highway Bridge Replacement and Rehabilitation (HBRR) and Highway Bridge Program (HBP). Moving Ahead for Progress in the 21st

Century Act (MAP-21) was signed into law July 6, 2012. Under MAP-21 highway program structure has been consolidated and bridges are included in the National Highway Performance Program (NHPP) and the Surface Transportation Program (STP). The federal programs continue to support bridge and bridge rail replacements funding with a local match.

The City and County Bridge Inventory includes 55 bridges, as presented in Table 21. The terms "structurally deficient" and "functionally obsolete" are categories defined by Caltrans, which are used to classify bridges needing improvement based on biennial inspections. As of 2018, one County bridge was designated structurally deficient. The Modoc County Road Department has historically utilized Federal funding sources to maintain and replace bridges attributing to the low deficient and obsolete bridges.

Deficient bridges create potential safety hazards and may seriously limit access due to bridge closure or failure. County transportation permits provide a mechanism to regulate the weight of heavy vehicles with regards to certain bridge limits.

The state highway bridge inventory lists 22 state bridges in Modoc County and the Bureau of Indian Affairs maintains two bridges on Native American lands. One BIA bridge was replaced in 1998; the other was replaced in 2004.

Table 20 – City and County Bridge Inventory (follows)

Jur.	Flag Bridge No. Roadway - Feature		Roadway - Feature	Location	Built/ Recon
ALT		03C0015	Estes St - No Fork Pit River	0.1 mi N CR56	1971
CO		03C0002	CR87 - Pit River Slough	0.1 mi N CR91	1955
CO		03C0003	CR87 - Pit River Slough	0.8 mi NE CR91	1955
CO		03C0004	CR87 - Roberts Slough	0.9 mi NE CR91	1955
CO		03C0005	CR87- Roberts Slough	1.0 mi NE CR91	1955
CO		03C0016	CR54 - No Branch Pit River	0.3 mi South of SR299	1958
CO		03C0017	CR54 - Middle Branch Pit	0.4 mi South of SR299	1958
CO		03C0018	CR54 - So Branch Pit River	0.6 mi South of SR299	1958
CO		03C0019	CR54 - Thoms Creek	3.2 mi SE of SR299	1958
CO		03C0023	CR54 - Canyon Creek	9.1 mi SE of SR299	1958
CO		03C0024	CR54 - Cyn Creek Overflow	9.4 mi SE of SR299	1958
CO		03C0025	CR54 - So Fork Pit River	19.8 mi SE of SR2999	1958
CO		03C0027	CR54 - No Fork Pit River	20 mi SE of SR299	1958
CO		03C0031	CR133C - Willow Creek	0.1 mi South of CR9	1987
CO	FO	03C0036	CR61 - Westside Canal	0.7 mi West of US395	2013
CO	FO	03C0037	CR61 - Middle Canal	0.6 mi West of US395	2013
CO		03C0038	CR61 - Eastside Canal	0.5 mi West of US395	UNK
СО		03C0039	CR60 - Westside Canal	3.6 mi West of CR189	1985
CO		03C0041	CR60 - Eastside Canal	2.1 mi West of CR189	2005
co		03C0041	CR63 - Stones Canyon	1.7 mi West of US395	1972
co		03C0045	CR64 - So.Fork Pit River	3.5 mi East of US395	1972
co		03C0045	CR58 - Alpine Road	0.3 mi North of CR56	1989
co		03C0040	CR1 - Bidwell Creek	Fort Bidwell	1951
co		03C0053	CR111 - J Canal	2.6 mi South of SR139	1954
		03C0065	CR111 - No 46 Drain	0.6 mi South of SR139	1954
co					1954
		03C0066	CR111 - J14B Canal CR111 - 45D Drain	1.1 mi North of SR139	1954
CO		03C0067		1.15 mi North of SR139	
co		03C0068	CR111 - J14A Canal CR87 - Pit River Slough	2.6 mi North of SR139	1954
		03C0070	· · · · · · · · · · · · · · · · · · ·	0.2 mi NE CR91	1955
CO		03C0071	CR87 - Pit River Slough	0.2 mi NE CR91	1955
CO		03C0075	CR198 - Rush Creek	0.25 mi South of SR299	1923
		03C0076	CR215 - Howards Gulch	2.15 mi North of SR299	1931
CO		03C0077	CR215 - Howards Gulch	4.2 mi North of SR299	1931
co		03C0078	CR91 - Pit River	0.3 mi NW of CR87	1975
co		03C0080	CR1 - Owl Creek	11.0 mi South of SR299	1943
co		03C0083	CR91 - Pit River Overflow	1.2 mi South of CR87	1975
CO		03C0084	CR90 - Pit River	0.6 mi East of CR91	2000
CO		03C0085	CR90 - Pit River Overflow	0.5 mi East of CR91	2000
CO		03C0086	CR90 - Halls Creek	1.0 mi East of CR91	1996
CO		03C0087	CR224 - Bidwell Creek	1.6 mi NW Fort Bidwell	1991
CO		03C0089	CR69 - Pit River	2.7 mi South of SR299	2002
CO		03C0090	CR25 - Deep Creek	1.5 mi West of CR1	1967
CO		03C0091	CR75 - Pit River	0.3 mi South of SR299	1968
co		03C0092	CR85 - Stone Coal / Pit	4.7 mi West of SR299	2007
co	FO	03C0093	CR112 - J Canal	South of State Line Rd	1985
CO		03C0111	CR56 - Alturas Creek	0.50 mi East of US395	1938
CO		03C0116	CR258 - So Fork Pit River	0.06 mi South of CR64	1957
CO		03C0118	CR86 - Rush Creek	East of SR299	1986
CO	FO	03C0119	CR 108 - D Canal	0.05 mi West of CR 114	UNK
CO		03C0120	CR70 - Pit River	2.8 mi South of SR299	1997
CO		03C0121	CR70 - Pit River	3.75 mi South of SR299	1996
CO		03C0124	CR90- Pit River	Mod cty	2001
CO		03C0125	CR90- Pit River Overflow	0.3 mi East of Lookout Rd	2001
CO		03C0126	CR 85- Pit River	Approx 8 mi E of Lkt Rd	2006
CO		03C0127	CR61- Westsdie Canal	.7 W of US 395	2015
CO		03C0128	CR61- Middle Canal/Pit River	.6 W of US 395	2015
CO					

Legend: ALT = City of Alturas, CO = County of Modoc, FO = Functionally Obsolete, SD = Structurally Deficient Source: Caltras Local Assistance Website, County of Modoc Road Department, 2005.

CHAPTER 4 - PUBLIC TRANSPORTATION

Modoc Transportation Agency/Sage Stage

The Modoc Transportation Agency (MTA) was established in 1997 to provide public transit services both within the County and to nearby regional centers. Prior to its formation, there was no consistent public transportation in Modoc County, although various social service agencies provided some transportation for their clients. The MTA was created as a Joint Power Authority between the County of Modoc and City of Alturas to operate the Sage Stage. The MTA Mission Statement confirms its purpose "to provide the citizens of Modoc County with lifeline public transportation services, both within and outside the region, to facilitate access to basic living activities." Typical of frontier counties, the local commission and MTA recognize the need to provide "lifeline" transportation from remote rural communities to medical and social services, where no passenger carrier or taxi services exist.

The service area of the Sage Stage is large in comparison with other public transit systems (Figure 5). The bus system currently provides two types of public transportation services: intercity/commuter (fixed-route with deviation) and local demand response service that is referred to as Dial-A-Ride. Due to limited resources and highly fluctuating demands, all Sage Stage services are operated on a reservation basis.

Demand Response Local Bus Service

The MTA provides general public demand response service weekdays between 7:45 AM and 5:15 PM. This service is provided within a 10-mile radius of Alturas, including to and from Modoc Estates and Cal Pines subdivisions. Sage Stage provides curb-to-curb service to the general public and door-to-door access for elderly and disabled persons. General fares for each one-way trip range from \$1 to \$3, depending upon distance. At the end of Fiscal Year 2017/18 Sage Stage provided 10,765 local rides through this service. This was a 90% increase over FY 2014/15 and was primarily due to a decrease in boarding fares.

Intercity Services

To support intercity travel and interregional trips accessing specialized health care and other services in distant urban centers, the Sage Stage operates three intercity routes. All services start between 6:30 AM and 8:00 AM and return to Alturas the same day between 3:30 PM and 5:30 PM. Sage Stage operates these services on a reservation basis and in-service pick-up points are based on passenger demand. These routes link Alturas to regional centers in Reno, Nevada three times per week; in Redding, California and Klamath Falls, Oregon once weekly. For passenger convenience, the bus drops off and picks up riders at specific destinations, such as hospitals, health care facilities, airports, bus and train stations, and popular locations within the city limits. In 2018, Sage Stage provided 594 passenger trips on the Klamath Falls service, 506 passenger trips on the Redding service, and 1,367 passenger trips on the Reno service.

MTA previously received FTA 5311f grant to funding for a Ft. Bidwell and Cedarville intercity service two days per week. The service was operated as a pilot program from 2014-2016 and was discontinued because of lack of ridership.

FIGURE 5 - SAGE STAGE BUS ROUTES



The existing Sage Stage fleet consists of seven vehicles; each equipped with a wheelchair-lift. The transit operation is handled by a third-party contract operator, which provides operators, driver training and licensing, mandated substance abuse testing, vehicle insurance, dispatch and management services. MTA had a contractor change over in 2019. Vehicle maintenance and repair is subcontracted

by MTA to area vendors. The MTA provides contract administration, policy determination, marketing, customer billing, fuel and lubes, collections, and accounting functions.

A Short-Range Transit Development Plan was prepared in 2013 and identified several service enhancements. These enhancements will be offered to the Sage Stage passengers in stages and will be monitored and evaluated accordingly. We have completed all the service enhancements and will apply for funding to complete another study in near future.

Appendix D includes a list of social service, non-profit, and private transportation providers in the region.

Table 21: Sage Stage Operating Expenses

Operating Data	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18
Operating Cost	\$282,912	\$376,578	\$279,337	\$415,808	\$405,892	\$401,252
% Annual Change	-13.80%	33.10%	-25.80%	48.90%	-2.40%	-1.10%
Passengers	10,001	9,051	9,594	15,674	12,624	13,251
% Annual Change	-8.20%	-9.50%	6.00%	63.40%	-19.50%	5.00%
Revenue Miles	125,778	123,209	122,735	152,855	140,372	121,945
% Annual Change	5.20%	-2.00%	-0.40%	24.50%	-8.20%	-13.10%
Revenue Hours	5,176	4,721	4,832	6,473	5,923	5,738
% Annual Change	10.50%	-8.80%	2.40%	34.00%	-8.50%	-3.10%
FTE Equivalents	3	3	3	3	3	3
% Annual Change	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Farebox Revenue	\$71,079	\$71,720	\$68,326	\$79,523	\$7,148	\$58,133
% Annual Change	3.60%	0.90%	-4.70%	16.40%	-15.60%	-13.40%
Cost Per Passenger	\$28.29	\$41.61	\$29.12	\$26.53	\$32.15	\$30.28
% Annual Change	-6.10%	47.10%	-30.00%	-8.90%	21.20%	-5.80%
Cost Per Mile	\$2.25	\$3.06	\$2.28	\$2.72	\$2.89	\$3.29
% Annual Change	-18.20%	35.90%	-25.50%	19.50%	6.30%	13.80%
Cost Per Hour	\$54.66	\$79.77	\$57.81	\$64.23	\$68.53	\$69.93
% Annual Change	-22.00%	45.90%	-27.50%	11.10%	6.70%	2.00%
Passengers Per Mile	0.08	0.07	0.08	0.1	0.09	0.11
% Annual Change	-11.70%	-7.60%	6.40%	31.20%	-12.30%	20.80%
Passengers Per Hour	1.93	1.92	1.99	2.42	2.13	2.31
% Annual Change	-16.70%	-0.80%	3.60%	22.00%	-12.00%	8.40%
Revenue Hours Per FTE	1,725	1,574	1,611	2,158	1,974	1,913
% Annual Change	10.50%	-8.80%	2.40%	34.00%	-8.50%	-3.10%
Farebox Recovery	25.12%	19.05%	24.46%	19.12%	16.54%	14.49%
% Annual Change	20.20%	-24.20%	28.40%	-21.80%	-13.50%	-12.40%
Average Fare / Passenger	\$7.11	\$7.92	\$7.12	\$5.07	\$5.32	\$4.39
% Annual Change	12.80%	11.50%	-10.10%	-28.80%	4.80%	-17.50%

2018 Performance Audit

Table 22 MTA Sage Stage Revenue/Programs

Modoc Transportation A	gency - Sag	ge Stage Tr	ansit/ Publ	lic Transpo	ortation							
	Projected											
Program / Fiscal Year Period	19/20-22/23	23/24-26/27	27/28-30/31	31/32-34/35	36/37-39/40	Total						
Operating Funding \$1,000s												
TDA												
STA	\$408	\$416	\$424	\$433	\$442	\$2,123						
RMRA SGR	\$60	\$100	\$50	\$0	\$0	\$210						
LTF	\$520	\$530	\$541	\$552	\$563	\$2,706						
FTA												
5311	\$220	\$220	\$220	\$220	\$220	\$1,100						
5311(f)	\$580	\$220	\$220	\$220	\$220	\$1,460						
Total Operating Funding	\$1,788	\$1,487	\$1,455	\$1,425	\$1,444	\$7,599						
Capital Funding \$1,000s												
FTA												
5311	\$80	\$80	\$80	\$80	\$80	\$400						
5311(f)	\$0	\$0	\$0	\$0	\$0	\$0						
Local - LTF	\$75	\$75	\$75	\$75	\$75	\$375						
Total Capital Funding	\$155	\$155	\$155	\$155	\$155	\$775						

LTF Revenues: An annual growth rate of 2% was applied to the average of historical allocations.

Source: MTA, 2019

The 2008 Public Transit Human Services Transportation Plan is currently undergoing an update; this RTP is consistent with the 2008 plan and subsequent updates. Coordinated Plan, Title VI plan, and Transit Asset Management Plans are updated on regular schedules.

INTELLIGENT TRANSPORTATION SYSTEMS (ITS) – TRANSIT

MTA currently utilizes ITS applications in the transit vehicles for passenger and driver safety and security enhancements. Each transit vehicle is equipped with DVR camera systems with GPS and inertia sensors. MTA continues to seek rural applications for coordinated rural trip-planning. This could benefit inter and intra travel by having coordinated reservations and trip planning tools for end users.

STA Revenues: Assumes continued funding level

FTA: Operating revenue based on MCTC estimates. Flat growth is assumed over the planning period. Capital revenue based on historical allocations.

CHAPTER 5 - RAIL TRANSPORTATION & GOODS MOVEMENT

Rail Transportation

Rail transportation has declined in Modoc primarily due to the cost of rail infrastructure is expensive to build, repair, and maintain; lack of freight rail service demand has led to rail track abandonment and removal, and once tracks are removed, the likelihood of replacement for future economic rail activity is remote. No passenger rail service is currently offered nor is it anticipated in the long-term future. During the past 15 years, environmental limits on timber harvesting hastened economic decline and significantly reduced railroad traffic in Modoc County.

The Lake County Railroad operates the rail line from Lakeview Oregon to Alturas, CA. General rail freight includes lumber products and perlite, most of which passes through Modoc County. Maintaining and improving rail crossing safety are a short and long-range goal. Staff at Lake County Railroad continue to stress the importance of preserving the railroad as many Lake County jobs are dependent on perlite mining and transporting products. The rail crossing at the SR 299 near Oak Street in Alturas has been identified for rail safety improvements. Funding is being programmed to upgrade the location to current standards, which includes a flashing light signal assembly with automatic gate arm and additional flashing light signals over the roadway on a cantilevered arm.

Goods Movement by Roadway

Goods movement is an important part of the regional transportation system as well as the economic vitality of the region. Trucking activity in Modoc County generally includes the transport of wood chips, livestock, construction materials, and agriculture. State highways are mostly Terminal Access (STAA). The Freight Planning Regional Summary identifies several truck issues for Northern California; those relative to Modoc are: SR 395 serves as Alturas' "Main" street and could cause safety issues for trucks, intermittent availability of energy sources to power Intelligent Transportation (IT) system equipment to direct/assist truck movements, and deteriorated roadway conditions. Agriculture products such as hay, alfalfa, and rice account for a significant portion of locally generated trucking activity as well. Common trucking routes include US 395 south of Alturas and SR 299 between Canby and Cedarville. Table 23 shows the percent of truck traffic on each segment of state highway.

Generally, truck volumes are down from 1998. Truck traffic through Modoc County will likely remain an important concern given that the north-south highways through this region provide the shortest route between Southern California, Arizona, and Nevada or Phoenix and Las Vegas to the south and the Pacific Northwest region, as well as the need for regional goods access.

Although there is no air cargo activity reported at any of the airports in Modoc County, airports may be used during an emergency response by supporting federal and State agencies to bring in water or medical supplies to affected communities.

Table 23: Modoc Truck Traffic Volumes on State Highways

Route	Post Mile	Counter location	2012	2013	2014	2015	2016	2017
139	0.23	Adin, S Jct Rte 299	35	35	32	32	51	53
139	17.35	CR 91	344	344	341	341	379	397
139	44.505	Newell	340	340	386	386	426	354
299	0.332	Adin Jct SR 239	152	152	108	187	187	201
299	21.749	Jct SR 139 N	302	302	316	507	341	312
299	40.276	Alturas Juniper St	349	316	316	316	316	355
299	40.63	Alturas Jct US395	432	432	290	290	290	324
299	57.354	CR 1 (Cedarville Main St)	30	30	19	19	19	16
299	66.632	Nevada State Line	3	3	3	3	4	4
395	3.216	Likely, Jess Valley Rd	264	264	271	271	284	298
395	R20.975	Glenn St (Alturas)	285	285	286	286	294	303
395	22.07	First St (Alturas)	267	268	282	282	286	292
395	22.764	Jct SR 299 W (Alturas)	574	574	279	279	290	304
395	28.285	Jct SR 299 E	148	148	121	124	194	165

Regional Airports

General Aviation provides a means of transportation from rural areas such as Modoc County to anywhere in the world. Many aircrafts utilize the airports located in the County as a fueling stop, for emergency access to regional medical centers, as a destination for recreational purposes, for agricultural-based operations, as well as for firefighting staging areas. Each of these are vital to providing lifelines to rural communities. General aviation and the existing airport infrastructure are necessary for economic development and growth. Maintaining and improving aviation facilities is critical for the safety, security, and well-being of residents and visitors of Modoc County.

There is a total of six airports distributed around Modoc County as shown in Table 24 below.

Table 24: Regional Airports

Airport Location/Name	Ownership	Airport Classification	Ground Access to Airport	AIP funds Y/N
Adin	Modoc County	Non-NPIAS	Paved access	N
Alturas Municipal	City of Alturas	GA	Paved access	Y
California Pines Airport	California Pines CSD	Non-NPIAS	Paved access	N
Cedarville	Modoc County	GA	Paved Access	Y
Ft. Bidwell	Modoc County	Non – NPIAS	Paved Access	N
Tulelake	Modoc County	GA	Paved Access	Y

These six airports can be further classified as two types: public use General Aviation (GA) and non-National Plan of Integrated Airport System (NPIAS). The GA airports are in Alturas, Cedarville, and Tulelake. They are Basic Utility-Stage I facilities with fuel available for purchase at Alturas and Tulelake. The Alturas Municipal Airport has two runways, both of which were resurfaced in 2010. This facility, as well as Tulelake and Cedarville service mostly small private aircraft, medivacs, and aircraft under contract for government agencies. Rental hangar space may be available on site at all three. The Federal Aviation Administration (FAA) includes these three municipal airports in the NPIAS, and as such, they are eligible for federal Airport Improvement Program (AIP) funding.

There are three non-NPIAS airports in the County, which are not eligible for FAA assistance. The County operates two, Adin and Fort Bidwell, which are Less Than Basic Utility airports. The other non-NPIAS airport is owned and operated by the California Pines Community Services District (CSD), which is a Basic Utility-Stage I facility, although fuel is not available. Recently, the CSD applied for funding through

the 10-year Capital Improvement Program to overlay the runaway. In addition to the six regional airports, Modoc Medical Center maintains a heliport used regularly to transfer critical patients from the hospital to larger medical facilities.

Modoc County Airports General Aviation System Needs Assessment (GASNA) lists the Alturas Municipal Airport as a State Priority Airport. It is near the crossroads of highways State Route 299 and US Highway 395, which strategically would benefit emergency operations and aviation support activities during incidents such as cataclysmic events: fire, floods, earthquakes, etc. The Alturas Municipal Airport could meet the needs of emergency support functions by including improvements to Alturas Municipal Airport to meet the minimum requirements depicted in the **GASNA** Appendix F.

Table 25: Modoc County Airport Capital Improvement Projects

Proposed Project Description	Priority ⁽¹⁾	Con Year	C	otai ost 00s)	Fund Source	Corresp. Goals	Project List Inventory ⁽⁴⁾
Adin Airport (non-NPIAS)							
Runway (RW) and Taxiway (TW) overlay	1	TBD	\$	392	State	1,2,3	P
Striping RW and TW	1	2013	\$	11	State	3	P
Cedarville Municipal Airport (NPAIS)			•	·			
Reconstruct Access Road (30'x250')	1	TBD	\$	92	FAA	3,4	P
Reseal Joints in Pavement	1	2012	\$	133	FAA	3,4	P
Slurry Seal RW and TW	1	2013	\$	259	FAA	2,3	P
Construct Grated Drains at Taxiway and Runway Intersection	1	2012	\$	74	FAA	3,4	P
Snow Plow	1	2013	\$	179	FAA	3,4	P
Engineering and Design for Hangar and Taxiway Projects	1	2015	\$	101	FAA	3,4	P
Construct T-Hangar Taxiways	1	2015	\$	554	FAA	3,4	P
T-Hangar Apron Expansion, and 4 Unit Nested Tee Hangar	1	2015	\$	538	FAA	3,4	P
Automated Weather Observation System, Segmented Circle and Lighted Wind Cone	1	2014	\$	297	State	3,7	P
Striping RW and TW (next scheduled 2021)	3	every 2	\$	126	State	3	I
Fort Bidwell Airport (non-NPIAS)						•	
Perimeter Fencing	1	2013	\$	34	State	3	I
Tulelake Municipal Airport (NPAIS)							
Reconstruct Tie Down Apron	1	2012	\$	896	FAA	2,3	P
Construct 8-foot Security Fence	1	2013	\$	448	FAA	3	P
Reconstruct Service Road	1	2014	\$	271	FAA	2,3	P
Snow Plow	1	2014	\$	179	FAA	3,4	P
Construct New Tee Hangar Site Including Two 10-Unit Hangar Sites	1	TBD	\$	698	FAA	3,4	P
Engineering and Design for Runway and Hangar Construction	1	TBD	\$	403	FAA	3,4	P
Automated Weather Observation System, Segmented Circle and Lighted Wind Cone	1	2015	\$	323	FAA	3,4	P
Environmental Assessment - New Runway and Taxiway (Ongoing)	1	2012	\$	336	FAA	3,4	P
Construct New Runway 11-29 (75' x 4000'), Construct Extension to Parallel Taxiway (35' x 400') and Cross Taxiways (47 @ 35' x 200') and Two Holding Aprons (40' x 165')	2	2014	\$	5,701	FAA	2,3	I
Replace 6 Existing Tee Hangers with a 6 Unit Nested Tee-Hanger Building	2	TBD	\$	1,290	FAA	3,4	I
_	3	every 2 yrs.	\$	126	State	3	I
Striping RW and TW	1 -						1

Legend: NPAIS = National Plan of Integrated Airport Systems, RW = runway, TW = taxiway

Note 1: Priority Nos: 1= Short Term (FY2020-2015), 2= Mid Term (FY2021-2025), 3=Long Term (FY2016-2035).

Note 2: Costs are cumulative and through 2036.

Note 4: Project List (P) = project programmed or listed current RTIP; Inventory (I) = Project is part of the long-term inventory and not likely to be built within the next five years.

Source: County of Modoc County Road Department, 2019

Table 26: Modoc County Current and Future Aircraft Activity

Airport	2019 Based Aircraft	2017 Aircraft	2018 Aircraft	2019 Aircraft Operations Est
Adin	0	100	100	100
Alturas Municipal	9	8,000	10,000	8,000
California Pines	1	300	400	200
Cedarville Municipal	5	2,300	2,300	2,300
Fort Bidwell	0	100	100	100
Tulelake Municipal	11	13,000	13,000	13,000
Totals	26	23,800	25,900	23,700
Source: Modoc County, 2019)			

Table 27: Alturas Municipal Airport Capital Improvement Projects

Project/								Engineering				
Priority	Shown	Project	Development	Environmental	Development		Construction	and	Total	F.A.A.	S	ponsor
No.	on ALP	Type	Year	Required	Type	Description	Cost	Administratio	n Project Cost	Participation	Par	ticipation
						Environmental Assessment - Widen Runway 13-						
1	Yes	E	2019	EA	EA	31, Extend Taxiways A and B to Serve Existing	\$ -	\$ 116,150	\$ 116,150	\$ 104,535	\$	11,615
						Runways 3-21 and 13-31 - Reimbursement					ļ	
2	Yes	D	2019	Cat Ex 2018	Design/Construct	Obstruction Removal - Design and Implement	60,000	13,200	73,200	65,880		7,320
		AL - 20	19				\$ 60,000	\$ 129,350	\$ 189,350	\$ 170,415	\$	18,935
3	Yes	D	2020	EA 2019		Extend Taxiway B to Serve Existing Runway 13-31	\$ 890,000	\$ 321,000	\$ 1,211,000	\$ 1,211,000	\$	-
4	Yes	D	2020	EA 2019	Design/Construct	Widen Runway 13-31	1,100,000	387,000	1,487,000	1,487,000		-
5	Yes	D	2020	EA 2019	Design/Construct	Extend Taxiway A to Serve Existing Runway 3-21	735,000	268,000	1,003,000	1,003,000		-
6	Yes	D	2020	Cat Ex 2019	Design/Construct	Reseal Joints and Cracks in All Pavements -						
	103		2020	Cat Lx 2017	Design construct	Design/Construct		ļ			ļ	
						Runways (50' x 3,460')	327,000	72,000	399,000	359,100	ļ	39,900
						Taxiways (25' x 3,460')	81,000	18,000	99,000	89,100		9,900
						Apron (213,840 sq. ft.)	107,000	25,000	132,000	118,800		13,200
	TOT	AL - 20	20				\$3,240,000	\$ 1,091,000	\$4,331,000	\$ 4,268,000	\$	63,000
7	Yes	D	2021	Cat Ex 2020	Design/Construct	Reconstruct Circle Hangar Taxilane	\$ 497,500	\$ 110,000	\$ 607,500	\$ 546,750	\$	60,750
	TOT	AL - 20	21				\$ 497,500	\$ 110,000	\$ 607,500	\$ 546,750	\$	60,750
		-	2022	G . E 2024	D : /G : .	Expand Fuel Farm - New 10,000-gallon Jet A Fuel						
8	Yes	D	2022	Cat Ex 2021	Design/Construct	Tank, Containment for Tank, and Fittings	\$ 325,000	\$ 7,200	\$ 332,200	\$ 298,980	\$	33,220
	TOT	AL - 20	22				\$ 325,000	\$ 7,200	\$ 332,200	\$ 298,980	s	33,220
			2022	37/4	nt ·	Airport Layout Plan Narrative including Updated ALP						
9		P	2023	N/A	Planning	Drawings	\$ -	\$ 105,000	\$ 105,000	\$ 94,500	\$	10,500
10	Yes	D	2023	Cat Ex 2022	Engineering	New Helicopter Hangar - 100' x 120'	-	248,000	248,000	223,200		24,800
	TOT	AL - 20	23			<u> </u>	s -	\$ 353,000	\$ 353,000	\$ 317,700	s	35,300
11	Yes	D	2024	Cat Ex 2022	Construct	New Helicopter Hangar - 100' x 120'	\$ 1,600,000	\$ 288,000	\$ 1,888,000	\$ 1,699,200	\$	188,800
	TOT	AL - 20	24				\$1,600,000	\$ 288,000	\$1,888,000	\$ 1,699,200	\$	188,800
						TOTAL PROJECT COSTS	\$ 5,722,500	\$ 1,978,550	\$ 7,701,050	\$ 7,301,045	\$	400,005
						Total FAA Funds Under Regular Airport Improvem	ent Program			\$ 3,600,045		,
						Total FAA Funds Under Supplemental Appropriation	_			\$ 3,701,000		
$\overline{}$,,		

CHAPTER 7 – NON-MOTORIZED TRANSPORTATION

Bikeway and Pedestrian Facilities

Existing Modoc County bikeway facilities include a bike lane in Alturas on McDowell Street from Main Street to Estes Street and commuter bike routes/paths/striping in Canby. In 2001 additional bike lanes and paths were constructed in the town of Canby. The Draft Modoc County Bicycle Transportation Plan lists proposed bikeway projects throughout the County. The primary goal of the bike plan is "to serve the needs of bicyclists, pedestrians, and motorists, by supporting a safe, effective, efficient, balanced, and coordinated transportation system at reasonable cost."

In terms of both bike and pedestrian circulation, the region is faced with many issues. Linking communities is difficult due to the long distances between main populations centers located along State Routes. There is limited shoulder area to walk or ride along most roadways in the region. Roadways within rural Modoc communities are narrow and lack sidewalks. The City of Alturas and Cedarville are the only areas where limited sidewalk facilities exist. The City of Alturas has a STIP project to improve and build sidewalks in the central business district. Project proponents are encouraged by MCTC to include non-motorized improvements with their STIP projects during programming. In addition, transit buses are equipped with bicycle racks to provide passengers the ability to ride Sage Stage to an outlying community and then bicycle to their end destination.

In summer of 2019, the MCTC appointed a committee to seek public input on US395 which serves at the City of Alturas' Main Street. The committee is comprised a representative from Caltrans District 2, a member from Modoc Outdoor Tourism and Recreation, 2 members from the City of Alturas (Councilmember and Planner), and members from MCTC (Commissioner and Executive Director). The goal is to seek public input on design features for US395/Main St. A public outreach workshop was held in August 2019 and focus meetings have occurred with the Rotary Club, Modoc Outdoor Recreation and Tourism, and the Alturas Police Department. Some initial feedback includes improving pedestrian and bicycle safety and access, calming traffic, and radar feedback signs/special event signing/lighting (Theatre). The Main Street Design Committee plans to seek input from the Alturas Fire Department, Modoc County Sheriff's Office, California Highway Patrol, California Department of Forestry, Modoc High School and Main Street businesses. Outreach efforts are anticipated to conclude November 2019. The input/feedback will be provided to Caltrans and costs/elements considered for a draft design by the Main Street Design Committee.

Table 28 – Bicycle and Pedestrian Improvement projects.

 $\textit{This list is in alphabetical order and is } \underline{\textit{not}} \; \textit{in order of priority.} \; \textit{Projects will be implemented as funding becomes available.} \\$

Community / Locale	Street / Road / Location	Specific Route / Related Schools	Miles	Proposed Project Description	Priority	Const Year	 sts in ,000s	Fund Source	Related Goals	Perf. Indicator
Adin	CR88 -	Adin ES		Sidewalk; pave bus stop and drop-off areas	3	TBD	\$ 110	ATP	2,3,4	S
Alturas	4th Street	Main St. (US395) to end	1.3	Bike path	3	TBD	\$ 234	STIP	2,3,4	M/A
Alturas	12th Street (SR299)	Main St. (US395) to Warner St.	0.8	Bike lane - signage & striping (construct thru road project)	1	TBD	\$ 14	STIP	2,3,4	M/A
Alturas	Carlos Street	Main St. (US395) to Warner St.	0.8	Bike path - signage & striping (construct thru road project)	1	TBD	\$ 14	STIP	2,3,4	M/A
Alturas	East Street	12th Street (SR299) to Modoc St.	0.8	Bike lane	3	TBD	\$ 144	STIP	2,3,4	M/A
Alturas	Howard Street	Carlos St. to 4th St.	0.9	Bike lane - signage & striping only	3	TBD	\$ 16	ATP	2,3,4	M/A
Alturas	Main Street	McDowell/CR56 to Intersect SR299 /US395	0.9	Bike lane - signage & striping only	2	TBD	\$ 162	SHOPP	2,3,4	M/A
Alturas	West C Street	4th Street to 12th St. (SR299)	0.4	Bike path - signage & striping (construct thru road project)	3	TBD	\$ 7	STIP	2,3,4	M/A
Alturas - Cal Pines	CR54 - Centerville Road	Carlos St. to Cal Pines Blvd. (CR71)	9.0	Bike route - wider shoulders, signage & striping (w/ project)	3	TBD	\$ 1,618	STIP	2,3,4	M/A
Alturas - Modoc Estates	12th St. (SR299) / Pencil (CR55)	Main St. to Woodduck Lane (CR236)	0.8	Bike lane	3	TBD	\$ 316	STIP	2,3,4	M/A
Alturas - Modoc Estates	CR55 - Pencil Road	Alturas ES, Modoc MS and HS		School bus turnout	3	TBD	\$ 29	ATP	2,3,4	S
Alturas - Refuge	Modoc National Wildlife Refuge	Around refuge (CR59/59A)	12.2	Circular bike route	3	TBD	\$ 10,963	ATP	2,3,4	M/A
Alturas - Thomas Creek	US395 and SR299	Alturas ES, Modoc MS and HS		(2) school bus turnouts: each near CR267	3	TBD	\$ 47	ATP	2,3,4	S
Cedar Pass	SR299	Across Cedar Pass	15.0	Bike path - signage & striping (construct thru road projects)	3	TBD	\$ 12,940	SHOPP	2,3,4	M/A
Cedarville	Lincoln Street	Surprise Valley ES and HS, and Great Basin HS		Add pedestrian pathway to school library	1	TBD	\$ 800	ATP	2,3,4	S
Cedarville	High Street	Surprise Valley ES to Cedarville Park	0.2	Bike lane - signage & striping only	3	TBD	\$ 4	ATP	2,3,4	M/A
Cedarville	Wallace Street	Main Street (CR1) to High Street	0.2	Bike lane - signage & striping only	3	TBD	\$ 5	ATP	2,3,4	M/A
Lake City	CR17 - Upper Lake City Road	Lake City to Surprise Valley Rd. (CR1)	3.5	Bike route - signage & striping (construct thru road project) Bike route - wider shoulders, signage &	3	TBD	\$ 633	ATP	2,3,4	M/A
Likely	CR64 - Jess Valley Road	Likely to Mill Creek Falls CG	14.1	Bike route - wider shoulders, signage & striping (w/ project)	3	TBD	\$ 2,534	Fed/Local	2,3,4	M/A
Likely	CR258 - Blue Lake Road	Jess Valley Rd. (CR64) to Blue Lake CG	6.6	Bike route - wider shoulders, signage & striping (w/ project)	3	TBD	\$ 1,186	Fed/Local	2,3,4	M/A
New Pine Creek	Pine Street - along West side	State Line Ave. to State Line ES	0.3	Bike path - signage & striping (construct thru road project)	3	TBD	\$ 11	ATP	2,3,4	M/A
Surprise Valley	CR1 - Surprise Valley Road	Cedarville (southern limit) to Fort Bidwell	29.2	Bike route - wider shoulders, signage & striping (w/ project)	3	TBD	\$ 5,248	STIP	2,3,4	M/A
Warner Mountains	N/A	Through Warner Mountains	-	Multiple (mountain) bike paths	3	TBD	\$ 3,595	TBD	2,3,4	M/A

Bicycle / Pedestrian Projects Total \$ 40,629

Sources: Draft Modoc County Bicycle Transportation Plan, January 2000 and County of Modoc Road Department

Note 1: Priority Nos: 1= Short Term (FY 2019-2024), 2= Mid Term (FY 2024-2029), 3=Long Term (FY 2029-2039).

Note 2: Annual growth rate of 3.2% was applied to construction costs to account for inflation. Rate is based on the growth of Engineering News Record's Construction Cost Index for San Francisco from Dec. 1995 to Dec. 2006. Long-term projects with no construction date are adjusted for 15 years of inflation.

Note 3: Project List (P) = project programmed or listed current RTIP; Inventory (I) = Project is part of the long-term inventory and not likely to be built within the next five years.

CHAPTER 8 - LAND USE AND AIR QUALITY

Land Use

Modoc County is a very rural county - on average there are only about 2.3 persons per square mile, limited medical services are available, and there is no college or university. Although the rural aspect is appealing to most residents, the dispersed nature of the County poses significant challenges to providing enough transportation infrastructure and human services.

In 2016, it is estimated that approximately 70 percent of the land in Modoc county is public land, managed by state and federal governments. The *Modoc County General Plan* (Mintier Harnish & Associates, 1988) identifies five land-use categories: residential, commercial, industrial, agricultural, and public/quasi-public. About 30 percent of the county is privately owned: of which 26 percent is used for agriculture, while the remaining 4 percent supports residential, commercial, and industrial uses.

The primary land uses within the City of Alturas are residential and retail services. The city encompasses about one square mile surrounding the intersection of two State highways. The commercial areas in the city are located within the "downtown" corridor along Main Street (US 395), with additional commercial and institutional developments along 12th Street (SR 299). Lodging is dispersed throughout the community, offering a variety of accommodation styles and price ranges.

Air Quality

Air quality is often a significant consideration for planning and evaluating transportation systems. Both State and federal laws contain many regulations to curb the impacts of transportation projects on air quality. In California, local and regional air pollution control districts have the primary responsibility for regulating emissions from all sources other than motor vehicles and fuels. The California Air Resources Board (CARB) regulates sources of vehicular air pollution, such as motor vehicle manufacturers and fuel refineries. California is divided into air basins related to air circulation and accumulation patterns. Modoc County is part of the Northeast Plateau Air Basin with air quality managed by the Modoc County Air Pollution Control District (APCD). The district maintains one monitoring site in Alturas, where levels for PM₁₀ air pollutants are followed. However, Modoc County has good air quality because of its low population density, limited industry, extensive undeveloped public lands, and rare traffic congestion.

The U.S. Environmental Protection Agency (EPA) established federal standards for seven air pollutants that affect the public health and welfare. Likewise, CARB established State standards, which are higher than the federal standards because air quality is worse in California. Both agencies use separate standards for the two categories of particulate matter (PM) based on particle diameter: PM₁₀ (ten microns or less) and PM_{2.5} (2.5 microns or less). The Modoc County APCD continuously monitors PM₁₀ airborne particulates. A description of this pollutant is described below.

Particulate Matter 10 (PM_{10}) – Airborne Particulate Matter is caused by a combination of sources including fugitive dust, combustion from automobiles and heating, road salt, conifers, and others. Constituents that comprise suspended particulates include organic, sulfate, and nitrate aerosols which are formed in the air from emitted hydrocarbons, and chloride, sulfur oxides, and oxides of nitrogen. Particulates reduce visibility and pose a health hazard by causing respiratory and related problems.

Modoc, being classified as an Isolated Rural Attainment Area, is considered "in attainment" for every state and federal air quality standard, except the state PM₁₀ standard. Notably, almost every county in California exceeds the state standards for airborne particulates. The primary sources of PM₁₀ pollution include wood stoves, open and prescribed burning, and wind-blown dust generated from unpaved roads, a dry lakebed (Goose Lake) during windy conditions, and agriculture. Typically, the highest levels of PM₁₀ observed in Modoc County occur during fall and winter, because of increased open burning and wood stove use. Thus, particulate matter air pollution problems in the region are not derived from transportation sources. Unlike many urban areas in California, where congestion, traffic volume, and environmental conditions cause unhealthful ozone pollution, transportation has no significant impact on air quality in Modoc County.

Greenhouse gas emissions - On June 1, 2005, Executive Order S-3-05 was signed the governor setting the following Greenhouse Gas (GHG) reduction targets: by 2010, reduce GHG emissions to 2000 levels; by 2020, reduce GHG emissions to 1990 levels; and by 2050, reduce GHG emissions to 80 percent below 1990 levels. In 2006, Assembly Bill (AB) 32 (California Global Warming Solutions Act of 2006) was passed granting authority to the California Air Resources Board (CARB) to develop regulations and market mechanisms enabling those targets to be met. Mandatory caps began in 2012 for significant emissions sources as part of its market-based "Cap-and-Trade" program launched at that time. An additional reduction target of 40 percent below 1990 levels by 2030 was established on April 29, 2015, through Executive Order B-30-15, helping to ensure that the previously set goals could remain on track. This directive has more recently been codified through the enactment of Senate Bill (SB) 32 in September 2016, essentially updating CARB regulations to meet the newer targets.

Rural areas such as Modoc County are not subject to the same transportation planning requirements as areas with substandard air quality ("non-attainment areas") or those with larger, urban populations. However, because the transportation sector accounts for nearly 50 percent of GHG emissions in California, long-range transportation planning plays an important role at all levels in helping the State to reach its overall reduction goals. Reducing the number of vehicle trips and vehicle miles traveled is key to reducing GHG emissions, whether it is from a regional perspective or a global perspective. Ongoing efforts within the Modoc County region to provide a variety of transportation choices will continue to assist larger goals.

Public transit provides one such option as an alternative to individual automobile trips for residents and visitors. Sage Stage began operation in 1998 with services through a demand response and intercity transit routes. Transit services in Modoc County are discussed in more detail under the Public Transit Element.

CHAPTER 9 – ENVIRONMENT

The CTC's 2017 RTP Guidelines require a discussion of potential environmental mitigation activities and areas, including those mitigation activities that might maintain or restore the environment that is affected by the plan. Most RTP projects are street or road rehabilitation and do not require disturbing or paving untouched land, nor are RTP projects typically located in wetlands, wildlife refuges, national monuments, or historic sites. Environmental mitigation for RTP projects is most applicable to RTP bridge rehabilitation projects where a river or stream could be disturbed by reconstruction of a bridge, sensitive species could exist, wetlands encountered, or other environmental areas encountered. Typical mitigation measures that are applied to road department projects reflect requirements by the California Department of Fish and Game and Regional Water Quality Control Board through the water quality permits. Conducting work within set timeframes and work windows to avoid sensitive species impacts.

The 2015 California State Wildlife Action Plan, Cascades and Modoc Plateau Province identifies Focal Species of Conservation Strategies Developed for Conservation Targets in the Modoc Plateau Province, encompasses the majority of Modoc County. The Conservation Units and Targets for the Modoc Region are included in Appendix G.

Lead agencies will assess at risk, sensitive and endangered species during the environmental phase of a funded project and avoid these resources or include appropriate mitigation measures as required by State and Federal resource agencies. During the project approval and environmental phases of a funded project, each lead agency (City, County, or State), are required to prepare various studies and assessments relative to specific environmental conditions within that project area in compliance with National Environmental Policy Act (NEPA) and the California Environmental Quality Act (CEQA).

For all transportation projects significant cultural resources are to be avoided whenever possible. If buried cultural materials are encountered during construction, work in that area must halt until a qualified archeologist can assess the nature and significance of the find and determine an appropriate course of action in consultation with the State Historic Preservation Officer (SHPO). Also, in the event project plans change to include areas not previously surveyed, additional archaeological reconnaissance will be required. The SHPO was contacted regarding inventories of natural and historic resources and they will review each Federally funded project during the NEPA/CEQA phase.

CHAPTER 10 - FINANCIAL

This chapter identifies the current and anticipated revenue resources and financing techniques available to fund the planned transportation investments that are described in the Action Element. The intent is to define realistic financing constraints and opportunities for Modoc County transportation programs. The following provides a summary of the federal, state, and local funding sources and programs potentially available to the Modoc County region for roadway improvements. The next section examines historical and future regional transportation revenues and compares anticipated revenues with proposed roadway projects. The last section provides a brief summary and conclusions. From a practical perspective, finances and funding availability ultimately determine which projects are constructed.

All regional projects must be consistent with this RTP. While projects funded with regional revenues are selected by the MCTC (subject to CTC approval), many other funding sources are highly competitive and outside the Commission's authority. Many such funds are awarded through statewide competition with exacting criteria, often quantitatively defined by factors such as affected population, traffic volume, or number of accidents. Thus, it may not be reasonable or prudent to expect funding from certain programs to be awarded to the Modoc County region.

Airport Improvements Program Funding

The Federal Airport Improvement Program (AIP) provides 90 percent federal funding, with a 10 percent local and state match, for general aviation projects. Available for most capital expenditures at public airports, this funding program must be approved annually by Congress. AIP funds are derived from user charges such as aviation fuel tax, civil aircraft tax, and air passenger fare surcharges.

The State of California Aid to Airports Program (CAAP) makes grant funds available for airport development and operations. Three types of state financial aid to publicly owned airports are available through the CAAP.

- Annual grants for up to \$10,000 per airport per year. These funds can be used to match Federal programs, but not state programs.
- Acquisition Development Grants provide funds for up to 90 percent of the cost of qualified airport developments on a matching basis, to the extent that state funds are available.
- Loans of 100 percent are available for projects with self-amortizing improvements. Such loans will be a continuing source for local funds required to match the 90 percent federal project funds.

Grants are allocated based on a complex project rating methodology used by the state, with a similar methodology used for the federal AIP. The highest rated projects are those that relate to safety and state mandates. Airport sponsors are supported by airport sales, leases, landing fees, fuel sales, etc. to meet the local match of federal and State grant programs. The Federal Aviation Administration (FAA) Airport Improvement Program (AIP) grants require a 10 percent local match, and the State AIP Matching grants only cover 5 percent of the federal grant, so the local match could be as little as 6.5 percent of the total project cost. California Pines Services District intends to apply for state grants to help fund a lighting project at the California Pines airport.

Federal Surface Transportation Programs

On December 4, 2015, President Obama signed into law Public Law 114-94, the Fixing America's Surface Transportation Act (FAST Act). The FAST Act funds surface transportation programs—including, but not limited to, Federal-aid highways—at over \$305 billion for fiscal years (FY) 2016 through 2020. It is the first long-term surface transportation authorization enacted in a decade that provides long-term funding certainty for surface transportation. This summary reviews the policies and programs of the FAST Act administered by the Federal Highway Administration (FHWA).

The Moving Ahead for Progress in the 21st Century Act (MAP-21), enacted in 2012, included provisions to make the Federal surface transportation more streamlined, performance-based, and multimodal, and to address challenges facing the U.S. transportation system, including improving safety, maintaining infrastructure condition, reducing traffic congestion, improving efficiency of the system and freight movement, protecting the environment, and reducing delays in project delivery. The FAST Act builds on the changes made by MAP-21.

Setting the course for transportation investment in highways, the FAST Act—

- Improves mobility on America's highways
 - The FAST Act establishes and funds new programs to support critical transportation projects to ease congestion and facilitate the movement of freight on the Interstate System and other major roads. Examples include developing a new National Multimodal Freight Policy, apportioning funding through a new National Highway Freight Program, and authorizing a new discretionary grant program for Nationally Significant Freight and Highway Projects (FASTLANE Grants).
- Creates jobs and supports economic growth
 - The FAST Act authorizes \$226.3 billion in Federal funding for FY 2016 through 2020 for road, bridge, bicycling, and walking improvements. In addition, the FAST Act includes several provisions designed to improve freight movement in support of national goals.
- Accelerates project delivery and promotes innovation
 - Building on the reforms of MAP-21 and FHWA's Every Day Counts initiative, the FAST Act incorporates changes aimed at ensuring the timely delivery of transportation projects. These changes will improve innovation and efficiency in the development of projects, through the planning and environmental review process, to project delivery.

Some of the Federal programs are described below.

Roadway Improvement Funding

• Surface Transportation Program (Federal) (STP) —may be used by States or localities for projects to preserve or improve conditions on any Federal-aid highway, bridge projects on any public road, facilities for non-motorized transportation, transit capital projects and public bus terminals and facilities. The Regional Surface Transportation Program (RSTP) is included in the STP. Modoc County Road Department and MCTC receive RSTP; the funding may be used for construction, rehabilitation, resurfacing, restoration, and operational improvements on federal aid highways and bridges (all functional classifications). Additionally, bikeway, pedestrian, transit, safety, ridesharing, parking, transit capital improvements, traffic management, transportation control, transportation

planning to support transportation projects, and environmental enhancement projects are eligible for these funds.

- Transportation Alternatives (Fed)/ Active Transportation Program (ATP) (State)— Eligible activities include Transportation alternatives (new definition incorporates many transportation enhancement activities and several new activities); recreational trails program; safe routes to schools program; and planning, designing, or constructing roadways within the right-of way of former Interstate routes or other divided highways. State legislation has created the Active Transportation Program (ATP) which includes the State's share of the Transportation Alternatives Program, Bicycle Transportation Account, and Safe Routes to School into a single program with a focus to make California a national leader in active transportation.
- **Highway Safety Improvement Program (Federal) (HSIP)** FAST Act continues the successful HSIP, safety throughout all transportation programs remains a number one priority, which includes the Rail-Highway Crossings Program.
- Federal Lands Transportation Programs (Federal) funds projects that improve access within Federal lands on transportation facilities.
- Emergency Relief Program (Federal) (ER) Emergency Relief program assists Federal, State, tribal and local governments with the expense of repairing serious damage to Federal-aid, tribal, and Federal Lands highways resulting from natural disasters or catastrophic failures. Such federal funds are generally coordinated with similar State funding through the California Office of Emergency Services.

STIP consists of two broad transportation improvement programs: (1) the regional program consisting of 75 percent of new STIP funding, and (2) the interregional program consisting of 25 percent of new STIP funding. Brief summaries of these programs are provided below, along with other state funding sources:

- Regional Transportation Improvement Program (RTIP) The RTIP receives 75 percent of the STIP funding. The 75 percent portion is subdivided by formula into county shares. Caltrans, the County of Modoc, and the City of Alturas request MCTC to prioritize their projects, which are apportioned to the region. The MCTC programs the Regional Share and recommends CTC adopt the program into the STIP, which then is rolled up to the FTIP. Critical to rural California counties, regional STIP funding also may be used for local roadway rehabilitation projects on roadways. The 2019 Regional Transportation Plan is consistent with the FTIP
- Interregional Transportation Improvement Program (ITIP) The ITIP receives the remaining 25 percent of the STIP funding. This program is programmed by Caltrans, based on the Interregional Strategic Plan and statewide priorities; regional agencies provide input on the specific ITIP projects for their region. One of the goals of the program is to encourage regional agencies and the state to establish partnerships to conduct certain projects. For the rural California counties, much of the state highway system is not eligible for interregional funding and must rely on the regional share to fund capacity increasing projects. Caltrans directly receives 15 percent of the STIP for state highway projects on the interregional system; potential projects must compete statewide for the remaining funds (10 percent of the STIP). There are no Modoc County projects or candidates in the ITIP nor are any anticipated during the short- or long-range planning horizon.
- State Highway Operations and Protection Program (SHOPP) The purpose of the SHOPP is to maintain the integrity of the state highway system. Funding for this program is provided through gas tax revenues via the state Highway Account. Projects are nominated within each Caltrans district

office. Proposed projects are sent to Caltrans Headquarters for programming on a competitive basis statewide. Final project determinations are subject to the CTC review. Individual districts are not guaranteed a minimum level of funding. SHOPP projects are based on statewide priorities within each program category (i.e., safety, rehabilitation, and operations) and within each Caltrans district. SHOPP funds cannot be used for capacity-enhancing projects.

- Minor Programs The Minor A Program is a Caltrans District discretionary funding program based on annual statewide allocations by District. This program allows some level of discretion to Caltrans District offices in funding projects up to \$1,000,000. Minor B Program funds are used for projects up to \$280,000. The advantage of the program is its streamlined funding process and the local District discretion for decision-making. Funding is locally competitive within each District and limited to the extent of its Minor A allocation.
- Road Maintenance and Rehabilitation Program/Account, Senate Bill 1 2017 This program was created to address deferred maintenance on highways and local street and road systems. The Road Maintenance and Rehabilitation Account (RMRA) holds the various funds for the program.
- **Rural Planning Assistance (RPA)** Formerly called State Subvention funding, this program provides funds to rural RTPAs on a reimbursement basis specifically for purposes of transportation planning. Activities and products developed using these funds are governed by an annual Overall Work Plan, prepared by the region and approved by Caltrans.

Local Sources

The following are sources of transportation funding not currently employed in Modoc County for transportation projects, but are available to local governments through various means:

- Traffic Mitigation Fees Traffic mitigation fees are one-time charges on new developments to pay for required public facilities, and to mitigate impacts created by or reasonably related to development. There are several approaches to charging developers; however, in all cases, these fees must be clearly related to the costs incurred as a result of the development with a rational connection between fee and development type. Furthermore, fees cannot be used to correct existing problems or pay for improvements needed for existing development. A county may only levy such fees in the unincorporated area over which it has jurisdiction, while a city must levy fees within the city limits. Any fee program must have the cooperation of all jurisdictions affected. Traffic mitigation fees would be difficult to implement in Modoc County due to (1) the dispersion of development over a wide area, which makes it difficult to allocate specific improvements to a range of developments, and (2) the desire to avoid discouraging development through the imposition of additional fees. In any case, the extreme low level of new development in Modoc County would generate minimal fee revenues.
- whenever development requires approval by a local entity. Generally, mitigation measures are imposed as conditions on tentative maps. These conditions reflect on- and off-site project mitigation that must be completed in order to be able to develop. Development agreements are also used to gain cooperation of developers in constructing off-site infrastructure improvements, or dedicating rights-of-way needed as a result of the proposed development. As with impact fees, developer mitigations are not generally available to fund ongoing transportation maintenance and operations costs. Further, this funding source is improbable and insignificant in Modoc County.

• Optional Local Sales Tax – A county-created taxing authority may levy up to a one-cent additional sales tax with the funds allocated for improvements to the regional transportation system, as authorized under the Local Transportation Authority Act, Division 19, Public Utilities Code Section 18000. Any new tax or tax increase requires a two-thirds majority vote of the affected electorate. This funding mechanism is not considered feasible for Modoc County due to the proximity of shopping in "sales tax-free" Oregon.

In addition to the major capital projects recommended in this transportation study, Modoc County has ongoing operations and maintenance (O&M) needs. To some extent, funding sources for O&M and capital projects overlap. Therefore, it is important to understand the annual O&M funding sources. Each of three sources is briefly described below:

- State Gas Taxes The state returns a portion of the statewide gas tax revenues to each jurisdiction for maintaining local roadways. These funds are restricted for use to the City or County Road Fund. They are accrued on a monthly basis. The formula for determining the amount of allocation to each local jurisdiction is complex, and is based upon the number of registered vehicles, assessed property valuation, and population according to the decennial census. Because of population decline, Modoc County may receive less revenue from these fund sources. Nevertheless, the City of Alturas typically receives around \$57,000 in gas tax revenues per year, and the County of Modoc receives around \$1.5 million.
- Motor Vehicle In-Lieu Fees These local revenues are motor vehicle registration funds returned to the county from the state. These funds are General Fund revenues and are not restricted for roadway use. Although the County of Modoc does not receive Motor Vehicle In-Lieu Fees, the City of Alturas expects to receive roughly \$122,000 per year.
- **Benefit Assessment Act of 1982** This Act allowed for the development of countywide assessments for drainage, flood control, and street lighting. A 1989 amendment to the Act added street maintenance assessments. To date, very few cities or counties have instituted such assessments for roadway maintenance.

The Modoc County Code lists County Service Area (CSA) and Private Road Division (PRD) fees are legal funding mechanisms for local road maintenance. A CSA is a type of special district that may provide, and finance expanded services in areas that desire or need a higher level of service and are willing to pay for it. CSAs are the most common type of district in the state due to their versatility and can provide a wide range of extended municipal services within a county, including transportation and transit. CSAs may encompass all the County's unincorporated area or selected portions only. Cities within the County may consent to be included within the CSA by vote of the city council. In all instances, it must be shown that the proposed level of extended service is not otherwise provided on a countywide basis and that those paying the service charge will benefit from the extended service. An Engineer's Report is required for the proposed CSA that outlines the geographic boundary, the types of services that will be provided, development absorption rate, and fees associated with each parcel in the area. CSAs and PRD are useful funding tools, which can be implemented with new developments to ensure that maintenance on newly built roads can be funded in perpetuity.

Transit Improvement Funding

The crux of any issue regarding the provision of public service is the matter of funding. Provision of a sustainable, permanent funding source has proven to be the single greatest determinant in the success or

failure of transit service. A wide range of potential transit funding sources is available, particularly within California. The following discussion provides an overview of these programs.

Federal Transit Funding Sources

The following are discussions of federal transit funding programs available to rural areas:

- FTA Section 5310 Capital for Elderly and Disabled Transportation Until recently, recipients of Section 5310 funding were restricted to non-profit organizations. Local government jurisdictions are eligible for Section 5310 funding when the lead agency is in a coordinated transportation arrangement. Obtaining these funds is difficult for Modoc County agencies, because allocation occurs through a statewide competitive process.
- FTA Section 5311 Public Transportation for Rural Areas Section 5311 remains the core program for rural public transportation. This program for rural areas requires 11.47 percent local match for capital and a 50 percent match for operating expenditures.
- FTA 5311(f) Intercity Bus Program This program funds intercity bus projects with emphasis on connectivity. Federal legislation mandated that states set aside a minimum percentage of funds for an intercity program to meet its needs. In California, remaining Section 5311 program funds are used to address intercity travel needs of residents in rural areas. There are three objectives for this program: (1) support connections between rural areas and larger regional or national system, (2) support services to meet rural residents' intercity travel needs, and (3) support intercity bus infrastructure through planning, marketing assistance and capital investment. Most operating assistance projects are eligible providing they meet one or more program objectives. Capital expenditures for vehicle acquisition has been recently suspended in this program. Funding is awarded on a statewide competitive basis for a maximum of two years before reapplication.

State Funding Sources

A mainstay of funding for transit programs in California is provided by the Transportation Development Act (TDA). The TDA provides two major sources of funding for public transportation: Local Transportation Fund (LTF) launched in 1972, and State Transit Assistance (STA) fund established in 1980.

- Local Transportation Fund The major portion of TDA funds are provided through the LTF. These funds are generated by a one-fourth cent statewide sales tax and returned to the county of origin. Consequently, LTF funds are based on local population and spending. In 2013, \$181,500 LTF was allocated to MCTC. LTF revenues may be allocated by the MCTC in accordance with TDA.
- State Transit Assistance In addition to LTF funding, the TDA includes the STA funding mechanism. The STA funds are for transportation planning and mass transportation purposes, as specified by the legislature. Under current law, the STA program is allocated one-half of the revenues deposited into Public Transportation Account (PTA). Historically, the PTA received revenues from two sources: (1) diesel sales tax, and (2) a portion of the state sales tax on gasoline, including "spillover" revenue and revenue from the sales tax on 9 cents per gallon of gasoline (referred to as the Proposition 111 gasoline sales tax revenue). Since 2005-06, PTA has also received a portion of Proposition 42 gasoline sales tax revenue. Modoc County was allocated \$53,121 in STA funds in 2013.
- RMRA State of Good Repair, Senate Bill 1 2017 provides revenues to California transit operators for eligible transit maintenance, rehabilitation and capital projects.

Tribal Funding

Transportation funding budgets are approved by Congress for rancherias/reservations. Prior to distributing TTP funding to Tribes for a fiscal year, the Secretary may deduct (or, in the case of Tribal supplemental funding, *must* deduct) the following amounts:

- *Program administration.*—Up to 5% (vs. 6% under MAP-21) for program administration, including funding for Tribal Technical Assistance Centers. Either the Secretary or the Secretary of the Interior may use these funds for program management and oversight and project-related administrative expenses. [FAST Act § 1118(1); 23 U.S.C. 202(a)(6)]
- Tribal planning.—Up to 2% for transportation planning. [23 U.S.C. 202(c)]
- *Tribal bridges.*—Up to 3% (vs. 2% under MAP-21) for a nationwide priority program for improving eligible deficient bridges. [FAST Act § 1118(2); 23 U.S.C. 202(d)]
- *Tribal safety projects*.—Up to 2% for safety projects, to be allocated to applicant tribal governments for projects eligible under the Highway Safety Improvement Program (23 U.S.C. 148(a)(4)). [23 U.S.C. 202(e)]
- Tribal supplemental funding—An amount of funding equal to \$82.5 million, plus 12.5% of the amount by which total TTP funding in a fiscal year exceeds \$275 million. The FAST Act continues to distribute Tribal supplemental funding to Bureau of Indian Affairs regions based on the cumulative tribal shares in each region and then further distributes to Tribes within the region. [23 U.S.C. 202(b)(3)(C)]

Formula

As under MAP-21, the FAST Act allocates TTP funding (net of the set-asides described above) among the Tribes through a statutory formula based on tribal population, road mileage and average tribal shares under the SAFETEA-LU Indian Reservation Road program. The FAST Act continues this formula without modification. [23 U.S.C. 202(b)]. The Federal share for TTP is 100%

Projected Revenues

Projecting revenues and expenditures over a twenty-year period is difficult since funding levels can fluctuate dramatically, be eliminated by legislation, policy changes, or economic conditions. In addition, many projects are eligible for discretionary funds, which are nearly impossible to forecast, due to the competitive nature of the programs.

Recurring regional transportation revenues were estimated in four-year increments over the next twenty years based on historical revenues and current year allocations. Because the region cannot accurately project-funding levels from competitive programs or those controlled by another agency, only recurring or regular regional funds are projected. Several challenges to transportation funding exist and may have a negative impact on the funding outlook in Modoc County:

- The transfer of state gasoline sales tax revenues to the Transportation Investment Fund (TIF) and state highways is not guaranteed despite state legislation. Although Proposition 1A will help secure this source of funding, gas sales tax revenues may be diverted to the general fund twice in any ten-year period under certain circumstances. This would have a significant impact on STIP funded transportation projects throughout the state, including Modoc County.
- Although Federal highway funding gained some stability with the passage of MAP-21, the new program is only authorized for 24 months, the unknowns with a short life program causes some risks.

• Rising construction costs are posing a major problem for all California counties. Caltrans' California Highway Construction Cost Index has shown a significant rise of 24 percent per year in construction material costs over the last three years due to demand for steel and cement and a rise in oil prices. Although prices in Modoc County tend to be a bit lower than much of the state, Modoc County has been and will continue to be affected by inflation.

Transportation revenue sources available to MCTC were divided into three categories. Table 9 presents MCTC revenue sources available for roadway, bridge and planning projects while Table 22 presents revenue sources available for transit operating and capital projects over the next five years. Approximately \$50.2 million will be available to MCTC for regional roadway and bridge projects and an additional \$6.8 million will be available for transportation planning activities. As the RTPA for Modoc County, MCTC allocates transit funding for Sage Stage. As shown in Table 23, \$7.8 million in transit operating revenue will be available over the planning period. Capital funding sources for transit projects are discretionary and difficult to predict, but historical allocations have shown that at least \$1 million will be available over the RTP planning period. Non-motorized facility revenues were not projected as these funding programs are very competitive and MCTC has received limited revenue for these types of projects in the past. This trend with likely continue because sustainable communities initiatives and grants to support those initiatives tend to have a higher demand for the funding levels.

Aviation funding is anticipated to amount to \$ 24.7 million over the next twenty years. Tables 25 and 27 also demonstrate that the City of Alturas and County of Modoc have projects in the short range ACIP that will see funding for the airports.

Roadway Revenue to Expenditure Comparison

The regional roadway/bridge transportation improvement projects listed as constrained in the tables in Chapter 3 will cost over \$60 million over the twenty-year period. As projected STIP revenues over the next twenty years are roughly \$53.8 million, these STIP projects are, indeed, fiscally constrained. Particularly, the first four-year period of the RTP is fiscally constrained and consistent with the 2020 STIP fund estimate. If unconstrained transportation improvement needs are considered, there is a deficit of approximately \$59.6 million in STIP regional funds over the twenty-year planning period.

As can been seen in Table 15, the City of Alturas has developed a financially unconstrained local road improvement program over the entire RTP planning period; however, there are significantly more local road improvement needs than funding available, as can be seen in the \$35.9 million unconstrained local road improvement projects.

These estimates indicate a \$107.9 million funding shortfall over the next twenty years if unconstrained projects are considered, for major regional, City, and County roadway/bridge projects. Furthermore, the forecast of revenues or expenditures do not consider the actual needs for the entire transportation network. All expenditure estimates were based on anticipated revenue and relative, realistic project planning. The benefits of SB 1 RMRA will offset some of this deficit.

CHAPTER 11 - ALTERNATIVES AND ACTIONS

This chapter addresses the regional needs and issues associated with each transportation mode, relative to the goals, objectives, and policies in the Policy Element. Projects and programs are prioritized within the Action Element for short-term, mid-term or long-term implementation consistent with identified needs, policies, anticipated future conditions, future travel needs, and forecasted infrastructure deterioration.

Data Forecasts

The Action Element is based on forecasts of future conditions that affect the regional transportation system, including resident population, employment, income, land use changes, and traffic forecasts. These conditions are discussed in the following sections. The forecasts of future conditions for resident population, employment and income, assume little change in these demographics.

Population

The State of California Department of Finance conducts population estimates and projections for each County and incorporated city. According to state forecasts, the population of Modoc County is expected to increase at a rate of .69% percent per year over the next 26 years. Table 29 shows the current estimates of population for Modoc County and several neighboring counties, as well as projections through 2040.

Table 29 – Modoc and Neighboring Counties Population Forecasts

	Population					
County	2014	2020	2030	2040	Total Change	Annual Change
Lassen	32,581	35,934	38,828	40,909	25.56%	0.99%
Modoc	9,197	9,965	10,347	10,773	17.14%	0.69%
Shasta	179,412	199,814	220,019	242,016	34.89%	1.31%
Siskiyou	45,231	46,369	48,883	51,854	14.64%	0.60%

Source: State of California, Department of Finance, Population Projections for California and Counties, 2014, and July 1, 2015 to 2060 in 5-year increments.

Land Use Changes

No major new developments are proposed in Modoc County within the foreseeable future. However, modest development is expected to occur within existing developed areas, along with redevelopment and renovation of properties within Modoc communities. For purposes of this plan, natural resource-based land uses (such as agriculture and timber harvesting) are assumed to remain roughly at the current levels.

Traffic Forecasts

Existing traffic forecasts for regional roads are sparse and limited to volume projections only for state highways. No traffic models of Modoc County or its jurisdictions have been developed to date. Caltrans Route Concept Reports about state highways in the County were prepared between 1984 and 1990, with subsequent Transportation Concept Reports for state routes being undertaken in the recent years.

Caltrans Traffic Census Department has developed preliminary future volume estimates at certain points along SR 139, SR 299, and US 395 out to 2030 based on historical growth trends and are presented in

Table 18. Over the next 20 years, estimates in Table 18 show that traffic volumes will increase or remain the same on the regional state highways. Based on the information many state highway segments are projected to experience a decrease in AADT from 2010 to 2030.

Plan Assumptions

The Action Element is based on the planning assumptions presented below:

<u>Transportation Funding</u> – Current state transportation funding programs will continue at about the same levels, while federal funding may have slight increases consistent with FAST Act apportionment levels.

<u>Environmental Conditions</u> – No changes are assumed in attainment status for air or water qualities that would affect regional transportation projects. In the future, Modoc County may be impacted by future regulations related to greenhouse gas reductions implemented as a result of Assembly Bill (AB) 32. As VMT figures are relatively low when compared to other regions in the state, Modoc County will not be significantly impacted.

<u>Travel Mode</u> – The private automobile will remain the dominant mode of transportation for residents and visitors in Modoc County. Public transportation will continue to be a vital service for elderly, low-income, and disabled persons.

<u>Growth in Truck Traffic</u> – Other than impacts associated with US 395 rehabilitation and improvements, and those resulting from changes in timber harvesting, existing trends in truck traffic are assumed to remain unchanged.

<u>Recreational Travel</u> – Recreation-oriented travel will continue to significantly impact traffic on state highways in general and on County roads that access forest and wilderness areas in the region. Through traffic from the Burning Man event, held in Black Rock NV, will continue to increase for the annual event.

<u>Transit Service</u> – The public transit system will expand slightly as ridership demands. The Sage Stage will continue to provide local demand response service and intercity transportation, which will be augmented by limited, dedicated non-emergency medical transportation services. The useful life of gaspowered transit vehicles is five years and about eight for diesel. Sage Stage vehicle replacement will be augmented by FTA grants.

<u>Planning Requirements</u> – State and federal policies will not significantly change the transportation planning requirements, although greater flexibility and streamlining would be welcomed. Performance measures will continue to be refined and assessed.

<u>Roadway Pavement Deterioration Rate</u> – The asphalt pavement on regional roadways will exhaust its useful life within the next 10 years, unless rehabilitated adequately. Without enough maintenance, pavement on most regional roadways will fail altogether within fifteen years, requiring replacement at approximately ten times the cost of timely rehabilitation. Proper pavement maintenance entails the following materials and activities:

- chip seal after two years and every five years thereafter
- occasional "dig outs" and blade overlays throughout the pavement life
- shoulder blading, culvert repair and replacement, roadside ditch cleaning, and re-striping every one or two years

Plan Alternatives

Transportation planning processes typically focus on alternatives that vary by travel mode, such as highway versus transit improvements. This approach is not relevant to Modoc County for three key reasons: (1) very limited funding is available for public transit purposes, (2) minimal growth in population and travel demand are anticipated, and (3) there is a large funding shortfall for maintenance of existing roadways. Instead of the "modal" approach, appropriate alternatives should focus on roadway maintenance versus roadway improvements. However, no approach is so exclusive or unilateral to disqualify any well-warranted projects that varied from the emphasis or main theme of attention.

- Status Quo Alternative Under this "make do" alternative, state and regional entities would continue to prioritize programs and to receive/use revenues consistent with past practices. STIP regional shares would be used to the maximum extent possible for regional road rehabilitation projects, for state matching funds with federal programs, and for leveraging partnership projects with Caltrans to support inter-regional projects where justifiable and needs demonstrated. However, under this alternative, roadways would continue to deteriorate unless additional funding sources were identified to support proper maintenance of the regional system.
- Capital Improvement Emphasis Alternative This "build new" alternative would focus on new capital improvement projects throughout the region. In addition to capital-restricted programs, a portion of any discretionary funding would be accessible to bolster capital projects. While this alternative would allow additional system improvements, it would further decrease available funding for critical maintenance. Accordingly, more local funding would be needed compared to the Status Quo Alternative and/or the level of financially feasible maintenance activities would be reduced. As discussed in Chapter 2, relatively good traffic conditions (lack of significant congestion) throughout Modoc County indicate only limited and localized capital improvement needs.
- Maintenance Emphasis Alternative This "fix up" alternative would focus funding on maintenance of the existing system roadway, transit, non-motorized, and aviation facilities and programs. New capital projects would be initiated only if justified by their merit and/or financing did not significantly deflect funding for maintenance and rehabilitation projects. Specialized capital projects would be implemented according to need and/or the availability of new funding sources.

Given the substantial backlog in roadway maintenance and lack of ongoing funding for maintenance activities, the **Maintenance Emphasis Alternative** is the only prudent course of action for the region. As mobility is an important goal for the frontier communities of Modoc County, the maintenance emphasis also applies to the transit infrastructure. Maintaining a public transit network that provides access to essential commercial and medical services outside the region is a priority for MCTC.

Funding Strategy/Actions

It is noted that Caltrans has no capacity increasing projects in Modoc and there are no regionally significant projects. The following are funding strategies/actions that will be implemented with the RTP:

Roadway Funding Actions

Short Range:

- 1. MCTC will assist with programming STIP funds and manage the overall STIP. Update RTP inventory and project lists as needed for funding programs.
- 2. MCTC will support the County and City to continue/update their pavement management systems and development/monitoring of the performance measures for Modoc.

3. Coordinate with Caltrans for STIP, SHOPP, and CAPM projects in the Region; assess projects for opportunities to partner on State projects.

Long Range:

1. Continue short range activities, monitor funding, support agency's efforts to utilize grants for system improvements.

Transit Funding Actions

Short Range:

- 2. Support MTA in their efforts to utilize Federal Transit Assistance funding (FTA 5310, FTA 5311f, SB1 State of Good Repair, LTF, and STAF).
- 3. Conduct annual unmet transit needs and analyze potential service extensions, connections to intercity service connections.
- 4. Apply for grant funding to prepare a Short-Range Transit Development Plan.
- 5. Research and encourage MTA to utilize grant funding for transit operating and capital (vehicle acquisition).

Long Range:

- 1. Support MTA in their efforts to utilize Federal Transit Assistance funding (FTA 5310, FTA 5311f, SB1 State of Good Repair, LTF, and STAF).
- 2. Conduct annual unmet transit needs and analyze potential service extensions, connections to intercity service connections.

Multimodal Funding Actions

Short Range:

- 1. Continue Main Street Design Committee efforts to refine comments; work with Caltrans District 2 for opportunities to include transportation, pedestrian, and bicycle elements in the CAPM project.
- 2. Support agency's efforts to apply for grants for multimodal improvements.

Long Range:

1. Contact local agencies and encourage them to apply for grants for multimodal improvements.

CHAPTER 12 - POLICY ELEMENT

This chapter describes the regional transportation issues and provides goals, objectives, and policies to assist setting transportation priorities for the Modoc County region. The Policy Element presents guidance for decision-makers about the implications, impacts, opportunities, and insolvent/inadequate options that will result from implementation of this RTP.

Local and Regional Issues

As previously stated, Modoc County is a very rural region. The inherent isolation of the County and extensive travel distances between communities and to urban centers impacts the efficiency of the regional transportation system. These regional characteristics underscore the lack of designated funding for roadway maintenance and operations, which naturally allow the regional transportation system to continue to deteriorate. The critical need for people to travel in and out of the County for most non-emergency medical care, employment, job training, educational opportunities, and other services, tax the region's finite ability to provide lifeline transit services. Bicyclist and pedestrian access are limited by inadequate facilities and funding. These key issues are among the most important regional needs and problems. The list that follows identifies key regional transportation issues (in no order):

- Shortfall in revenues to implement an adequate pavement rehabilitation program and to make needed improvements to local roads, state highways, and regional bridges. Unlikely success of any local tax measure to cover the shortfall based on low highway volumes, high percentage of elderly on fixed incomes, and overall high percentage of at and below poverty population.
- Impact of substandard roads on maintenance funds, when added to the need of local maintained roadway inventory.
- Need for transportation services to underserved and un-served areas to enhance mobility and reasonable access for all ethnic, age, and income groups in comparison with limited funding sources, extensive travel distances, and higher regional operating and fuel costs.
- Need for traveler and passenger safety and security.
- Desire to improve local economic vitality, supporting livable communities, and individual well-being.
- Need for bicycle and pedestrian facilities to provide safer environments and better connectivity for non-motorized travel and to alleviate barriers to non-motorized users.
- Importance of maintaining and improving regional airports for emergency response and general aviation.
- Need to preserve the rail system, maintain existing rail service, and protect potential for long-term expansion, which are economically important to the region.

Selection Criteria

MCTC Commissioners developed selection criteria to provide a basis for crafting RTP goals, objectives, performance measures, and policies that assist future decision-making about the regional transportation system. The criteria were defined and "weighed" by the MCTC according to relative importance to the region. The selection criteria serve the following purposes:

- To assist Commissioners and staff in comparing outcomes of different alternative strategies.
- To aid comparisons across modes and among strategies focused on different modes.

- To facilitate assessment of priorities in the Action Element linking implementation through the Regional Transportation Improvement Plan (RTIP) and the Interregional Transportation Improvement Plan (ITIP).
- To encourage partnerships with Caltrans to leverage funds and to integrate interregional transportation objectives and decisions with regional transportation objectives and decisions.

MCTC has ranked the performance measures in relation to our transportation and multimodal systems. Reliability was ranked the highest, followed by safety and security, mobility and accessibility, and economic development. Quality of life, telecommunication infrastructure, and cost effectiveness follow. Reliability of the system is a tool to determine the regional needs and to support the priority of roadway rehabilitation. In addition, all selection criteria can be used in the future to assist the MCTC to rank proposed projects based on importance to the region.

Goals, Objectives, Performance Measures, and Policies

Each RTP goal, related objectives, performance indicators, and specific policies linked to the goal in Appendix G - .

No plan can be implemented without workable strategies and mechanisms. The following approaches will be used to implement the 2019 RTP:

- Transportation investments will be evaluated based on performance and need assessments.
- "Bottom up" planning and coordination, so that the policy vision and projects meet local needs and consider the regional system as an integrated whole.
- Greater involvement between stakeholders in the early stages of the planning process and subsequent phases of project implementation will ensure solutions to problems experienced by local <u>and</u> interregional customers of the system.
- The 2019 RTP emphasizes maintenance and preservation of the system as the highest priority and also provides for mobility and access, job opportunities, safety in vehicle and non-motorized travel, reliability of the transportation system, efficient movement of freight, protection of the environment, satisfaction of customers, and equitable distribution of benefits.
- The 2019 RTP attempts to ensure that the mobility, economic, and "quality of life" needs of the region's scattered population are met. Emphasis is given to providing the elderly, disadvantaged, and mobility-impaired portions of the population with better transportation
- This plan supports livable and economically vital communities by improving access to locally operated businesses. The plan also encourages programs that encourage greater transit usage, bicycle, and pedestrian activities.
- The 2019 RTP confirms that partnerships and coordination are the foundations of cooperative problem solving with emphasis on developing and sustaining mutual respect and cooperation among stakeholders to solve transportation problems.
- There are no regionally significant projects in Modoc.

The goals and objectives in this RTP are consistent with the goals and objectives in the RTIP and ITIP.

Transportation Security/Preparedness

Transportation security is another element, which should be incorporated into the RTP. Separate from "transportation safety," transportation security/emergency preparedness addresses issues associated with large-scale evacuation due to a natural disaster or terrorist attack. Emergency preparedness involves many aspects including training/education, planning appropriate responses to possible emergencies, and communication between fire protection and city and county government staff.

In the Modoc County region, forced evacuation due to wildfire is the most likely emergency scenario. The Modoc County General Plan characterizes 40 percent of the County as very high fire danger area. In fact, high fire hazard areas exist very close to the City of Alturas. The Bureau of Land Management (BLM) *Proposed Resource Management Plan and Final Environmental Impact Statement* (May, 2007) identified the Modoc County communities of Likely, Alturas, and Canby as having some wild-land fire issues such as defensible space, hazardous fuel buildup, hazardous materials, ignition risk, and poor public education.

The Modoc County region has few documents related to transportation security/emergency preparedness in place. The *General Plan* safety element discusses how proper land use planning is an important method of limiting the effect of wildfire on Modoc County residents. A Modoc County *Emergency Preparedness Plan* was adopted in 1981. The plan provides a basis for coordinating the operations and resources necessary to meet the requirements of an emergency but does not include a description of evacuation routes. In 2004, Modoc County adopted an *Emergency Operation Plan*. The purpose of the plan is to provide for the continuity of government during emergencies, describe and define the Modoc County emergency organization and responsibilities of those participating in the emergency plan, and provide guidance for disaster education and training.

This plan does NOT replace the operating procedures of any agency. In fact, it depends upon agencies that respond according to their proven expertise. This plan provides channels for communication between agencies that do not normally work together. It provides a means to access needed resources; it provides a framework for recovery; and it provides a method of organizing and confirming information for public release.

Additionally, the plan calls for the activation of an "emergency operations center." The center acts as a coordinator between the different departments and agencies in the County by taking requests for resources and prioritizing these requests. MCTC and Sage Stage are specifically mentioned in the plan as potential resources to assist in assisting with evacuations.

As Modoc County is approximately 4,000 square miles with small pockets of population centers, no countywide evacuation plan has been developed for the region. Identifying evacuation routes and other methods of evacuation is pertinent to the scope of the RTP:

- Three state highways traverse Modoc County and act as the primary evacuation route for many Modoc County communities, such as Alturas, Likely, Canby, Cedarville, Newell and Tulelake. Evacuation routes should follow US 395 south to Susanville or north to Lakeview, Oregon, SR 139 northwest to Klamath Falls, Oregon, and SR 299 west to Redding. The implementation of ITS projects such as Road Weather and Information Systems (RWIS), Changeable Message Signs (CMS), and Closed-Circuit Television (CCTV) could assist with maintaining a steady flow of traffic on these state highways while keeping evacuees informed.
- Although state highways connect the larger communities in the County, some Modoc County residents
 live in very rural areas, which are not accessed by state highways, and therefore would depend on local
 roadways for evacuation routes. Additionally, if a portion of a state highway is blocked due to a

- disaster, certain local roadways could provide alternate evacuation routes. Examples of regionally important local roadways include County Roads 91, 1, 48, 54, 55, 87, 108, 111, 114, 120, and 272.
- MCTC/MTA is an integral part of the County Emergency Operations Plan to provide Sage Stage buses and drivers for emergency transportation. In the event of a natural disaster, Sage Stage's fleet of vehicles would be available to transport evacuees. The transit fleet is stationed in Alturas, and all vehicles are wheelchair accessible.
- The five publicly owned airports dispersed throughout Modoc County are available for emergency evacuation, and there is one officially designated helipad at Canby within the County.
- Although there is no passenger rail available in the County, the freight rail lines could provide supplies from Oregon in an emergency.

The best preventative measures with respect to this document for an emergency evacuation would be to continue to implement projects in the RTP, which upgrade roadways and public transit.

Transportation System Improvements

Improvement projects are categorized in this Action Element according to one of three priority levels indicating their status and timeline: programmed and short-term (0-10 years) or programmed in the long-term (11-20 years). The priority indicates that the project is programmed with funding identified and secured, is a later candidate for new funding cycles with implementation typically planned during the next one to ten years. The long-range list includes projects in very preliminary planning stages, sometimes without identified funding sources or cost estimates. Consequently, construction of these projects would occur ten, twenty or more years in the future. The 2017 RTP Guidelines require financially unconstrained projects to be included in this RTP update. The unconstrained project list is considered a "wish list," or projects that will be unlikely to receive funding over the next twenty years but would benefit the region. Financially unconstrained projects are included in this chapter.

Project Specific Performance Measurement Development

The California Rural Counties Task Force commissioned the Transportation Performance Measures for Rural Counties in 2015. The study revealed that all rural county agencies have performance measures in place that reflect the main transportation concerns of their regions. The main transportation issues in rural regions differ significantly from those in urban counties. Safety and pavement management consistently rank highest; urban counties are primarily concerned with issues such as congestion, air quality, and travel time reliability.

Performance for Rural Transportation Systems a list of suggested project specific performance indicators and measures that should be used to quantitatively evaluate the benefit of a project. These performance indicators are listed in Appendix A along with performance measures specific to projects for Modoc County, the current system baseline performance, and the projected impact of RTP projects on baseline system performance. Modoc, being a rural RTPA, will only report on performance indicators and measures for data currently being collected by local agencies.

The performance measures listed in Appendix A will be amended as necessary to reflect future changes in regional needs, goals and polices. The discussion below provides some background on how the project specific performance measures and current system baseline performance was developed.

• <u>Infrastructure Condition</u> – Maintaining regional roadways in satisfactory condition is the top priority for the region as well as the number one priority in the California Vehicle Code. Modoc currently measures the following system performance: Percent of distressed state highway lanes-miles, local

streets and roads pavement condition index, percent of highway bridge lane-miles in need of replacement or rehabilitation (sufficiency rating of 80 or below), and percent of transit assets that have surpassed the FTA useful life period.

• <u>Safety</u> – Accident data obtained from the California Highway Patrol and Caltrans was used to determine the system baseline performance for accidents per vehicle miles traveled.

RTP Projects

Proposed roadway improvement projects and implementation status are listed in a series of tables throughout this chapter. Projects are categorized according to responsible entity, transportation mode, and/or funding source. Replacement or rehabilitation of structural crossings (bridges) with less than 20-foot spans are omitted, because the state and federal governments do not define them as bridges; hence, no funding is available.

Determining exact construction costs of transportation projects is difficult, especially for long-term projects. In recent years the price of raw materials used for transportation projects has risen resulting in actual costs much greater than those estimated initial project plans. To produce a realistic view of Modoc County's transportation needs, the cost estimates in the ensuing tables are presented in two ways: "2019 dollars" and "adjusted for inflation." An annual inflation rate of 3% will be used for adjusted inflation costs.

The final column in the project list tables classifies each project as "Project List" or "Inventory." Improvement projects denoted as "Project List" are programmed for short-term priority projects and an improvement projects denoted as "Inventory" are long-term projects. "Project List" projects are the region's top priority projects needed to address goals and objectives stated in the Policy Element and are projects which can realistically be implemented over the next ten years assuming the funding forecasts remain static. In other words, funding is secured for the project and enough staff and resources are available to see the project through to completion. As "Project List" projects are implemented, the "Inventory" list will be reviewed to determine which projects should be promoted to the "Project List."

- STIP Regional Shares will support many projects on City, County and State roadways and bridges during the ensuing twenty years. Proposed projects suggested for STIP funding are listed by lead agency and type of facility. Omitting bicycle projects, the sum of proposed constrained STIP projects presented in this RTP is \$41.3 million. These projects are planned for implementation throughout the planning period. Financially unconstrained STIP projects total roughly \$71.9 million. The breakdown of proposed STIP project-estimates (both constrained and unconstrained) shows about \$16.5 million on County roads, \$14.4 million on City streets and \$2.5 million on State highways. Short-term proposed STIP regional share projects are consistent with the adopted Modoc 2014 STIP/RIP. No improvement projects located in Modoc County are listed in the Caltrans 2014 Interregional Transportation Improvement Program (ITIP), and the Modoc 2019 RTP is consistent with the ITIP.
- 1. **State Highway Projects** All STIP financial constrained improvements listed are estimated to cost \$4.5 million with construction during the next five years. Also listed are \$27.7 million in financially unconstrained improvements such as left turn lane and passing lane projects.

<u>Performance Measurement</u> – There are no state highway STIP funded projects listed in the 2019 RTIP.

<u>State Highway Future Needs</u> – As discussed in Chapter 5, the ten-year State Highway Operations and Protection Program (SHOPP) is financially constrained and there are no SHOPP projects listed in Modoc County. However, system preservation is top priority for the region. Table 16 presents state highway future maintenance needs that may become projects if new sources of funding become available.

• County Road Projects are planned over a 20-year horizon. County road improvement projects funded with recurring funding sources such are estimated to cost \$50 million over the next 20 years (not including the STIP or specially funded projects). Of these projects, approximately \$20 million is anticipated to come from STIP Regional Shares and \$30 million from local grants and funding sources. In terms of implementation period, approximately \$20 million will be spent on County road projects during the short-term planning period and \$20 million during the long-term planning period.

<u>Performance Measurement</u>: The "Project List" County Road projects are associated with the safety and system preservation performance. Safety and System preservation/road rehabilitation are the top transportation priorities for the County as nearly 80 percent of paved County maintained road miles are considered distressed. STIP funds are the greatest contributor to preserving the current roadway system.

- County of Modoc Projects are listed in Table 11 which lists proposed County projects financed all or in part by Federal Highway Administration special funding programs. Financially unconstrained County road rehabilitation projects are displayed in Table 12. If new funding sources were to become available, additional projects could be planned over the long-term period in Modoc County.
- City of Alturas Projects are listed in Table 14. The estimated total cost of transportation improvement projects over the next twenty years is \$13 million. It is anticipated that STIP funds will be used to finance these future projects. Table 15 presents the City of Alturas' list of financially unconstrained transportation improvement projects. The estimated cost for these long-term street rehabilitation projects is over \$60 million, should funding become available. These project lists continue to be priorities in the region due to limited transportation revenues in the region.
- **Bridge Improvement Projects** proposed on County roadways are estimated to cost about \$14.9 million as presented in Table 13. Five of these projects are on the short-term "Project List" and include the replacement of bridges, which are considered functionally obsolete or structurally deficient. Proposed funding for County bridges is through STIP, local sources and the federal HBRR program (88.5 percent federal and 11.5 percent local/STIP match).
- Tribal Improvement Projects are financed chiefly with Federal Lands Highway Program Indian Reservation Road (IRR) funds, administered through the BIA or applied for directly by the Tribes. Reflecting recent higher funding levels, most regional Tribal roads were improved during the past ten years. As shown in Table 17, in the short-term, Cedarville Rancheria intends to pave three Tribal roads at an estimated cost of \$671,000. As development goes in, these unimproved roads will most likely be added to the BIA system. Project cost and construction year is unknown currently. Alturas Rancheria has plans to replace a culvert and Pit River Tribes plan to pave gravel roads and perform road reconstruction. All tribal transportation future improvement projects will total approximately \$1.9 million.

- Public Transit/Coordinated Transportation Improvement Projects build on the existing coordination between Modoc County and its neighboring counties. Transit projects include planning improvements, operating assistance and capital improvements such as ongoing vehicle replacement. Transit vehicles should be replaced according to federal and state useful life policies to keep vehicle maintenance low and gain fuel and technology efficiencies. Table 22 displays the Planned Public Transit projects.
- Bikeway/Pedestrian Improvement Projects Most population centers in Modoc County are located 20 or more miles from one another, providing pedestrian/bikeways for travel between communities is unrealistic. Thus, the bike plan envisions a disconnected network of bicycle/pedestrian facilities. Five nodes are centered around Alturas and four other communities in the unincorporated County: Adin, Canby, Cedarville and Newell. Some bikeway projects will be implemented in conjunction with another project. For example, as the County rehabilitates roads in Adin, Newell, and Cedarville, safety improvements for pedestrians and bicyclists are planned within the project scope (wider shoulders). Likewise, programmed City projects will yield both safety enhancements and facility improvements for non-motorized travel. Table 29 lists the many proposed non-motorized improvements throughout the region suggested in the *Draft Modoc County Bicycle Transportation Plan*, totaling nearly \$32 million. With respect to bikeway/pedestrian projects, Modoc County intends to focus on facilities, which will increase the safety of roadway crossings for schoolchildren. Mobility and accessibility will be improved by the implementation of bicycle and pedestrian projects.
- Aviation Improvement Projects An important objective for the region is to provide safe public airports for general aviation. The Capital Improvement Plan includes projects, which will help overcome deficiencies identified during airport inspections. Listed by airport, capital improvement projects are shown in Table 28. Projects varying from T-hangar construction to routine runway striping are estimated to cost \$26.5 million over the twenty-year planning period.
- Advanced Technology/Traveler Safety and Information Projects As part of a broad regional ITS plan, Caltrans District 2 plans to implement several advanced technology projects on State highways in Modoc County over the coming twenty years. Examples of these projects include highway advisory radio (HAR), closed circuit television (CCTC), and radio and weather information systems (RWIS). Some of Modoc County's ITS projects lie within the realm of coordinated public transit. MCTC adopted the Regional ITS Architecture Inventory in 2005 which provides a list of both Caltrans District 2 ITS projects and Coordinated Transit ITS projects.

PAST PROJECTS/PROGRESS

Several improvement projects have been completed on regional roads, bridges, tribal roads, and airports in recent years. The majority were rehabilitation projects, to replace and repair existing transportation facilities. Table 30 presents completed transportation improvement projects from 2011 to 2019. Projects are organized by type of facility and listed numerically by road number.

Table 30 Past Projects and Progress

						Total	
						Cost	
Lead					FY	(1,000s)	Funding
Agency	Facility No.	Specific Location	Project Description	Miles	Done	Dollars	Source
-	et Projects						
ALT	Warner St.	From Park St to SR 299	Road Rehabilitation	0.67	2011	\$2,317	STIP
ALT	Various	Various	Chip Seal	5.5	2014	\$691	STIP
ALT	Oak & Juniper Sts.	From 299 (12th St. to W 19th St.	Road Rehabilitation	0.6	2015	\$2,015	STIP
ALT	CBD Ped	Various	Pedestrian Improvements	N/A	2020	\$530	STIP
County R	toad Projects	•					
CO	CR 54	Alturas to CR 60	Road Rehabilitation	1.65	2012	\$819	ARRA
СО	CR 1	From Cedarville to CR 9	Road Rehabilitation	22.0	2017	\$4,882	STIP
MCTC P	rojects	108, 112 S Main Street	E-St. and Man	NT/A	2012	61.544	37
MCTC		108, 112 S Main Street	Facility and Plaza	N/A	2013	\$1,544	Various
	ridge Projects		,				
CO	CR 61	Westside Canal Bridge 3C036	Replace Bridge	N/A	2013	\$877	HBP
CO	CR 61	Middle Canal Bridge 3C037	Replace Bridge	N/A	2013	\$888	HBP
State Hig	hway Projects						
ST	SR 139	Perez CCTV and HAR	ITS	N/A	2014	\$749	STIP
ST	SR 299	Hays St to Nevada State Line	Road Rehabilitation	17.4	2013	\$4,972	SHOPP
ST	SR 299	Ash Creek Bridge					SHOPP
ST	SR 139	Howards Gulch Bridge					SHOPP
ST	US 395	New Pine Creek Bridge					SHOPP
ST	SR 299	1.2 mi to .09 W of Crowder Flat Rd	Collision reduction	0.3	2013	\$2,293	SHOPP
				7	Total Cost	\$22,577	

Source: Modoc County Road Dept, City of Alturas, Caltrans District 2, BIA.

APPENDICES

A. Performance Measures

			Performance	Measures		Dusinatad	
Indicator	Priority	Mode	Mode Level Measures		Current System Performance (Baseline)	Projected Impact of Projects	Data Source
System Preservation (SP)		Roadway	State	Total Road Miles - Distressed State Highways	178.3	Reduce	Caltra
				% Distressed State Highway Road Miles	64.0%	Reduce	Caltra
			County	Total Road Miles - Distressed County - Paved/Improved	377	Reduce	Coun
	1			% Distressed County Paved/Improved Roads	79.0%	Reduce	Coun
			City	Total Road Miles - Distressed City Streets	21.03	Reduce	City
				% Distressed City Streets	59.0%	Reduce	City
		Bridges	State	% Deficient State Bridges	18.18%	Reduce	
		Bric	County / City	% Deficient County / City Bridges	7.00%	Reduce	Coun
			D : (p)	Fatalities / Vehicle Miles Traveled (VMT)	0.016/MVMT	Reduce	CHI
જ		že.	Region ^(b)	Fatal Collisions / VMT	0.016/MVMT	Reduce	Caltra
ta (c	2	dwa		Injury Collisions / VMT	0.32/MVMT	Reduce	201
Safety (S)		Roadway	County	Injury, Property Damage, animal, collision	22 per year	Reduce	CHI
			City	Injury and PDO Collision / VMT	36 per year	Reduce	City
		Transit	Systemwide	Operating Cost per Revenue Mile	\$3.29	Maintain	MTA

B. Negative Declaration, Notice of Determination and Fish and Game CEQA Exemption



Modoc County Transportation Commission
2019 Modoc Regional Transportation Plan (RTP)

STEPHANIE WELLENGYER COUNTY CLERK



MODOC COUNTY TRANSPORTATION COMMISSION NEGATIVE DECLARATION

Pursuant to: Division 13, Public Resources Code

Description

The 2019 Modoc RTP is prepared in compliance with state and federal regulations governing regional transportation planning, has a 20-year planning horizon, and is updated each 5 years. It includes regional transportation issues or concerns and possible solutions; goals, objectives, and policies for each transportation mode, actions, policies and funding available.

The RTP is not a project level document. As funding becomes available for a project each lead agency is required to comply with CEQA, NEPA, and resource agency permits. No capacity increasing projects have been identified in the short- or long-range planning period.

Determination

An Initial Study has been prepared by the Modoc County Transportation Commission. On the basis of this study it is determined that the proposed action will not have a significant effect upon the environment for the following reasons:

The 2019 Modoc Regional Transportation Plan is a short (10 year) and long (20 year) range planning document that lists projects that are contingent upon transportation funding availability. Each project is required to meet state and federal laws and regulation for protection of environmental resources (CEQA, NEPA, 4f, ACOE 404 permits, water quality permits, archaeological and historical resource compliance, etc.).

Debbie Pedersen Executive Director

Modoc County Transportation Commission

Date



COUNTY OF MODOC

Auditor/Clerk 108 E. Modoc Street ALTURAS, CALIFORNIA 96101

> (530) 233-6205 Office (530) 233-6666 Fax

STEPHANIE WELLEMEYER Auditor, Clerk, & Registrar of Voters

AFFIDAVIT OF POSTING NOTICE OF COMPLETION, NOTICE OF DETERMINATION AND NOTICE OF EXEMPTION

Pursuant to Public Resources Code §21152C, the following Notice of Completion, Notice of Determination and/or Notice of Exemption, was posted on October 4, 2019.

Notice of Exemption:

Project Title:

Modoc County Transportatin Commission

Negatvie Declaration Pursuant to: Div. 13, PRC

FILED DATE:

10/22/2019

RETURNED TO:

Modoc County Transportaion Commission

DATE RETURNED:

12/6/2019

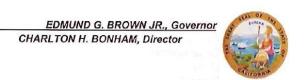
BY: Lisa Phillips,

Deputy Clerk/Accountant Auditor II









CEQA Filing Fee No Effect Determination

Applicant Name and Address: Modoc County Transportation Commission

CEQA Lead Agency: Modoc County Transportation Commission

Project Title: 2019 Modoc Regional Transportation Plan

CEQA Document Type: Negative Declaration

State Clearinghouse Number/local agency ID number: N/A

Project Location: Modoc County

Brief Project Description: The Regional Transportation Plan is prepared in compliance with state and federal regulations governing regional transportation planning, has a 20-year planning horizon and is updated every 5 years. This is a 5-year project planning update document.

Determination: Based on a review of the project as proposed, the Department of Fish and Wildlife has determined that for purposes of the assessment of CEQA filing fees (Fish & G. Code, § 711.4, subd. (c)) the project has no effect on fish, wildlife or their habitat and the project as described does not require payment of a CEQA filing fee. This determination does not in any way imply that the project is exempt from CEQA and does not determine the significance of any potential project effects evaluated pursuant to CEQA.

Please retain this original determination for your records. Local lead agencies are required to file two copies of this determination with the county clerk at the time of filing the Notice of Determination (NOD) after the project is approved. State lead agencies are required to file two copies of this determination with the Governor's Office of Planning and Research (i.e., State Clearinghouse) at the time of filing the NOD. If you do not file a copy of this determination as appropriate with the county clerk or State Clearinghouse at the time of filing the NOD, the appropriate CEQA filing fee will be due and payable.

Without a valid CEQA Filing Fee No Effect Determination form or proof of fee payment, the project will not be operative, vested, or final and any local permits issued for the project will be invalid, pursuant to Fish and Game Code section 711.4, subdivision (c)(3).

Approved by:

Signature

Date: 12-9-19

Name Title

FOR COUNTY CLERK USE ONLY

Regional Transportation Plan Checklist

(Revised December 2016)

(To be completed electronically in Microsoft Word format by the RTPA and submitted along with the draft RTP to Caltrans)

Name of RTPA:	Modoc County Transportation Commission				
Date Draft RTP Completed:	October 22, 2019				
RTP Adoption Date:	December 3, 2019				
What is the Certification Date of the E Document (ED)?	nvironmental	Neg Dec Filed 10/22/10; NOD 12/10/19			
Is the ED located in the RTP or is it a s document?	separate	See Appendix B			

By completing this checklist, the RTPA verifies the RTP addresses all of the following required information within the RTP.

Regional Transportation Plan Contents

General

- 1. Does the RTP address no less than a 20-year planning horizon? (23 CFR 450.216(a))
- 2. Does the RTP include both long-range and short-range strategies/actions? (23 CFR 450.324(b) "Should" for RTPAs)
- 3. Does the RTP address issues specified in the policy, action and financial elements identified in California Government Code Section 65080?
- 4. Does the RTP include Project Intent i.e. Plan Level Purpose and Need Statements?

Consultation/Cooperation

- Does the RTP contain a documented public involvement process that meets the requirements of Title 23, CFR part 450.210(a)?
- 2 Does the documented public involvement process describe how the RTPA will seek out and consider the needs of those traditionally underserved by the existing transportation system, such as low-income and minority households, who may face challenges accessing employment and other services? (23 CFR 450.210(a)(1)(viii))

Yes/No	Page#
Yes	thru RTP
Yes	79
Yes	68, 76, 79 80-84
Yes	12
Yes	14-17; Appnd D
Yes	14-17

- 3. Was a periodic review conducted of the effectiveness of the procedures and strategies contained in the participation plan to ensure a full and open participation process? (23 CFR part 450.210(a)(1)(ix))
- 4. Did the RTPA consult with the appropriate State and local representatives including representatives from environmental and economic communities; airport; transit; freight during the preparation of the RTP? (23 CFR 450.316(b) "Should" for RTPAs)
- 5. Did the RTPA who has federal lands within its jurisdictional boundary involve the federal land management agencies during the preparation of the RTP? (23 CFR 450.216(i))
- 6. Where does the RTP specify that the appropriate State and local agencies responsible for land use, natural resources, environmental protection, conservation and historic preservation consulted? (23 CFR part 450.216(j))
- 7. Did the RTP include a comparison with the California State Wildlife Action Plan and (if available) inventories of natural and historic resources?

 (23 CFR part 450.216(j))
- 8. Did the RTPA who has a federally recognized Native American Tribal Government(s) and/or historical and sacred sites or subsistence resources of these Tribal Governments within its jurisdictional boundary address tribal concerns in the RTP and develop the RTP in consultation with the Tribal Government(s)? (23 CFR part 450.216(i))
- 9. Does the RTP address how the public and various specified groups were given a reasonable opportunity to comment on the plan using the public involvement process developed under 23 CFR part 450.210(a)? (23 CFR 450.210(a)(1)(iii))
- 10. Does the RTP contain a discussion describing the private sector involvement efforts that were used during the development of the plan? (23 CFR part 450.210(a))
- 11. Is the RTP coordinated and consistent with the Public Transit-Human Services Transportation Plan? (23 CFR part 450.208(h))
- 12. Were the draft and adopted RTP posted on the Internet? (23 CFR part 450.216(o))
- 13. If the RTPA made the election allowed by Government Code 65080(b)(2)(M) to change the RTP update schedule (from 5 to 4 years) and change the local government Housing Element update schedule (from 5 to 8 years), was the RTP adopted on the <u>estimated</u> date required to be provided in writing to State Department of Housing and Community Development pursuant to Government Code 65588(e)(5) to align the Regional Housing Need Allocation planning period established from the <u>estimated</u> RTP adoption date with the local government Housing Element planning period established from the <u>actual</u> RTP adoption date?

Yes/No	Page #
Yes	14-17
Yes	Appnd D
Yes	Appnd D
Yes	Appnd D
Yes	67, Appn G
Yes	15
1	
Yes	14, Appn D
Yes	14, Appn D
Yes	19
Yes	
modoctranspo	rtation.com

Modal Discussion		
Does the RTP discuss intermodal and connectivity issues?	Yes	80
Does the RTP include a discussion of highways?	Yes	29-51
Does the RTP include a discussion of mass transportation?	Yes	53
Does the RTP include a discussion of the regional airport system?	Yes	59
Does the RTP include a discussion of regional pedestrian needs?	Yes	63
Does the RTP include a discussion of regional bicycle needs?	Yes	63
Does the RTP address the California Coastal Trail? (Government Code 65080.1) (For RTPAs located along the coast only)	N/A	
Does the RTP include a discussion of rail transportation?	Yes	58
Does the RTP include a discussion of maritime transportation (if appropriate)?	N/A	
Does the RTP include a discussion of goods movement?	Yes	58
Programming/Operations		
Is the RTP consistent (to the maximum extent practicable) with the development of the regional ITS architecture? (23 CFR 450.208(g))	Yes	51, 57, 58
Does the RTP identify the objective criteria used for measuring the performance of the transportation system?	Yes	Appd A
Does the RTP contain a list of un-constrained projects?	Yes 41	-43; 45-45
<u>Financial</u>		
Does the RTP include a financial plan that meets the requirements identified in 23 CFR part 450.322(f)(10) ("Should" for RTPAs)?	Yes	68-75
Does the RTP contain a consistency statement between the first 4 years of the fund estimate and the 4-year STIP fund estimate? (Government Code 65080(b)(4)(A))	Yes 4	0, 43, 45
	Does the RTP discuss intermodal and connectivity issues? Does the RTP include a discussion of highways? Does the RTP include a discussion of mass transportation? Does the RTP include a discussion of regional airport system? Does the RTP include a discussion of regional pedestrian needs? Does the RTP include a discussion of regional bicycle needs? Does the RTP address the California Coastal Trail? (Government Code 65080.1) (For RTPAs located along the coast only) Does the RTP include a discussion of rail transportation? Does the RTP include a discussion of maritime transportation (if appropriate)? Does the RTP include a discussion of goods movement? Programming/Operations Is the RTP consistent (to the maximum extent practicable) with the development of the regional ITS architecture? (23 CFR 450.208(g)) Does the RTP identify the objective criteria used for measuring the performance of the transportation system? Does the RTP contain a list of un-constrained projects? Financial Does the RTP include a financial plan that meets the requirements identified in 23 CFR part 450.322(f)(10) ("Should" for RTPAs)? Does the RTP contain a consistency statement between the first 4 years of the fund	Does the RTP discuss intermodal and connectivity issues? Does the RTP include a discussion of highways? Does the RTP include a discussion of mass transportation? Does the RTP include a discussion of the regional airport system? Does the RTP include a discussion of regional pedestrian needs? Does the RTP include a discussion of regional bicycle needs? Does the RTP address the California Coastal Trail? (Government Code 65080.1) (For RTPAs located along the coast only) Does the RTP include a discussion of rail transportation? Does the RTP include a discussion of maritime transportation (if appropriate)? N/A Does the RTP include a discussion of goods movement? Programming/Operations Is the RTP consistent (to the maximum extent practicable) with the development of the regional ITS architecture? (23 CFR 450.208(g)) Does the RTP identify the objective criteria used for measuring the performance of the transportation system? Does the RTP include a financial plan that meets the requirements identified in 23 CFR yes 41 Prinancial Does the RTP include a financial plan that meets the requirements identified in 23 CFR yes 41 Poes the RTP include a financial plan that meets the requirements identified in 23 CFR yes 41 Poes the RTP contain a consistency statement between the first 4 years of the fund

Do the projected revenues in the RTP reflect Fiscal Constraint? (Government Code

3.

65080(b)(4)(A))

Yes 38, 49, 45, 47

Yes/No Page #

			Yes/No	Page #
4.	Does the RTP contain a list of financially constrained prosignificant projects should be identified. (Government C		Yes	38
5.	Do the cost estimates for implementing the projects identified in the RTP reflect "year of expenditure dollars" to reflect inflation rates? (23 CFR part 450.324(f)(11)(iv)) ("Should" for RTPAs)			45, 56, 62
6.	After 12/11/07, Does the RTP contain estimates of costs reasonably expected to be available to operate and maintainst within the region? (65080(b)(4)(A) (23 CFR 450.3)	ain the freeways, highway and	Yes	79
7.	Does the RTP contain a statement regarding consistency and the ITIP? (2006 STIP Guidelines section 33)	between the projects in the RTP	Yes	71, 85
8.	Does the RTP contain a statement regarding consistency and the FTIP? (2006 STIP Guidelines section 19)	between the projects in the RTP	Yes	71
	<u>Environmental</u>			
1.	Did the RTPA prepare an EIR or a program EIR for the RTP in accordance with CEQA guidelines?			
2.	Does the RTP contain a list of projects specifically identi	fied as TCMs, if applicable?	N/A	
3.	Does the RTP specify mitigation activities? (23 CFR part	450.216(k))	N/A	
4.	Where does the EIR address mitigation activities?		N/A	
5.	Did the RTPA prepare a Negative Declaration or a Mitigathe RTP in accordance with CEQA guidelines?	ated Negative Declaration for	Yes	
6.	Does the RTP specify the TCMs to be implemented in th nonattainment and maintenance areas only)	e region? (federal	N/A	
	I have reviewed the above information and complete.	ertify that it is correct and		
7	VIII for	December 26, 2019		
	(Must be signed by RTPA Executive Director or designated representative)	Date		
	Debbie Pedersen	Executive Director		
	Print Name	Title		

D. State, Federal, Social Service Agencies -Public Participation and Outreach

AGENCIES AND PERSONS CONTACTED

Alturas Rancheria

Rose, Darren Wendy Del Rosa

Bureau of Indian Affairs

Virgil Atkins

Bureau of Land Management

Craig Drake

Caltrans District 2

Tom Balkow Kathy Grah

California Fish and Game

Neil Manji

California Office of Historic Preservation

Director

California Trucking Association

Tom King

California Water Resources Control Board

Clint Snyder

Cedarville Rancheria

Melissa Davis

City of Alturas Public Works Department

Joe Picotte

County of Modoc Planning Department

Sean Curtis

County of Modoc Road Department

Mitch Crosby

Fort Bidwell Reservation

Bernard Pollard, Chairman

Klamath Fish and Wildlife Refuge

Area Manager

Klamath County Department of Public Works

Jeremy Morris

Lake County Railroad

Rail Manager

Lake County Road Department

Kevin Hock

Lassen County Department of Transportation

Lassen Transit Service Agency

Millar, Larry

Lassen County Transportation Commission

Matt Boyer

Lava Beds National Park

Area Manager

Modoc County Air Pollution Control District

Gary Fensler

Native American Heritage Commission

Oregon Department of Transportation

Erik Havig

Pit River Health Services

Pit River Tribe

Mickey Gemill, Chairman

Plumas County Public Works/Transp Comm.

Bob Perreault

Shasta County Regional Transportation Planning Agency

Dan Little

Shasta County Department of Public Works

Patrick J. Minturn

Siskiyou County Local Transportation Commission

Cummins, Melissa

T.E.A.C.H. - and TEACH Senior Services

Carol Madison

United States Forest Service - Modoc

Amanda McAdams

U.S. Bureau of Reclamation - Klamath Basin

Jeffrey Nettleton

US Fish and Wildlife Service - Modoc Refuge

Steve Clay

Regional Transportation Commission Washoe

County

Lee Gibson



Modoc County Transportation Commission seeks input on the Draft 2019 Modoc Regional Transportation Plan

We Need Your Input!

The Modoc Regional Transportation Plan (RTP) is undergoing an update. The RTP is a 20year planning document that focuses on the regional multimodal transportation system (bicycles, pedestrian, rail, goods movement by road, aviation and our local road network which is City, County and State owned/managed).

All projects using public transportation funding during the next 20 years must be included in the 2019 Modoc RTP. The Plan considers future transportation needs; discusses goals, objectives, policies, levels of service, performance measures, financial projections, and discusses funding alternatives.

If you are unable to attend this workshop and have comments or questions, please contact Debbie Pedersen at (530) 233-6410 or by email at dpedersen@modoctransportation.com. Comments will be received through November 22, 2019. The Modoc County Transportation Commission plans to adopt the 2019 Modoc RTP following a Public Hearing at their December 3, 2019 meeting.

The draft RTP can be found on our website at: http://modoctransportation.com/plansreports/2019-modoc-regional-transportation-plan-draft.



Published in the Modoc Record (countywide) newspaper

Outreach:

Modoc

National Forest

Canby

Rotary* Sunrise Alturas Rotary* Modoc Recreation and Tourism

transporation planning processes.

*Rotary members
Eagle Peak Construction, Wilson Ranches
Pioneer Auto Body, Antonio's Cucina,
Modoc Medical Center, Niles Hotel,
Niles Theatre, and Federal, State, and local
government representatives.

PUBLIC

WORKSHOP

Surprise

Station

Alteras

Wednesday,

November 6, 2019

Beginning at 10 a.m. 108 S. Main Street, Alturas

The Modoc County Transportation Commission welcomes public involvement for the regional

Madeline

California

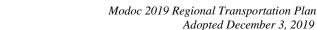
Pines

Lake City

Posted at these Social Service Agencies:

TEACH, Inc.
TEACH Senior Services
CalWORKS
Modoc County Social Services
Modoc County Behavioral Health
City of Alturas
County of Modoc
All Sage Stage Buses

 $MCTC\ website-modoctransportation.com$



E. Comments Received on the Draft RTP and Responses to those comments.

STATE OF CALIFORNIA—CALIFORNIA STATE TRANSPORTATION AGENCY

Gavin Newsom, Governor

DEPARTMENT OF TRANSPORTATION

1657 RIVERSIDE DRIVE REDDING, CA 96001 PHONE (530) FAX (530) TTY 711 www.dot.ca.gov



November 15, 2019

Debbie Pedersen, Executive Director Modoc County Transportation Commission 108 S. Main Street Alturas, CA 96101-3936

Dear Ms. Pedersen:

Thank you for the opportunity to review the Modoc County Transportation Commission's (MCTC's) Draft Regional Transportation Plan (RTP). Based on our review, Caltrans offers the following comments, suggestions, and questions for your consideration in the attachment.

If you have any questions or comments regarding this matter, please contact your Regional Planning Liaison, Aaron Casas at (530) 225-4732.

Sincerety

KATHY GRAH, Chief

Community and Regional Planning, District 2

Enclosure

Please see MCTC's response following each comment. Thank you, Debbie Pedersen, Executive Director MCTC

Ms. Debbie Pedersen November 15, 2019 Page 2

General Comments:

- Per Title 23 CFR §450.216(a), the RTP must clearly state addresses no less than
 a 20-year planning horizon. Please outline the specific planning horizon for this
 RTP. Added to the cover page several references to the 20-year plan, including the Executive Summary
- In the RTP Checklist, MCTC indicates that page 79 of the Draft RTP identifies long-range and short-range strategies/actions, however, this page identifies strategies for funding shortfalls. It does not identify specific strategies and actions for the 2019 Regional Transportation Plan. MCTC should identify short- and long-range strategies for the overall plan.

 The Checklist has been updated to reflect the short- and long-range strategies for the overall plan.
- Many pages identified in the RTP Checklist did not accurately reflect the pages that pertain to the RTP requirements. We recommend that MCTC review the RTP Checklist and ensure that the correct pages are identified. The RTP Checklist has been revised to provide the page numbers as required.
- Instances of mislabeled or incorrect references in the RTP exist that create a break
 in readability and reference for the reviewer. Please ensure formatting of tables
 and pages are consistent throughout the document. Thank you for this comment.

Specific Comments:

Policy Element

- Page 80 of the Draft RTP identifies MCTC's selection criteria to assist the
 Commission in future decision-making regarding transportation projects and
 multimodal systems. Please identify the selection criteria in a matrix according to
 how they were ranked by the MCTC Commissioners. This will be provided with the next update
- Per California Government Code 65080(b)(1), the objectives in the policy element of the RTP shall be linked to short-range and long-range transportation implementation goals. Chapter 12 does not clearly identify goals, objectives, or policies per this requirement. Page 81 of the Draft RTP states that these are identified in Appendix G, please ensure Appendix G is attached to the final RTP. This item has been addressed.
- On page 81, MCTC ranked the performance measures used to measure the transportation and multimodal system. Please provide additional detail to describe how these performance measures were selected and ranked accordingly. An explanation has been added to include the RCTF Rural Performance Measures as a very small rural attainment RTPA, Modoc is utilizing performance measures that reflect our region's goals.

Ms. Debbie Pedersen November 15, 2019 Page 3

Action Element

- Per California Government Code 65080(b)(3), the action element of the RTP must describe the programs and actions necessary to implement the RTP and assigns implementation responsibilities. Chapter 11 of the Draft RTP identifies alternative strategies, however, the chapter does not identify the specific programs and actions that MCTC will take to implement the goals of the RTP. Additional information has been added.
- Per California Government Code 65080, the action element must consist of short and long-term activities that address regional transportation issues. Page 76 of the RTP states that projects and programs in the action element are prioritized by short-term, mid-term, and long-term implementation strategies consistent with the RTP goals and policies. Please provide additional clarity on how these strategies are prioritized in the short, mid, and long-term.

The action element prioritization has been clarified.

Consultation/Cooperation

- Per Title 23 CFR §450.210(a), the RTP shall contain a documented public involvement process that establishes the process by which the public can participate in the development of the regional transportation plan and programs.
 MCTC does not reference their Public Participation Plan and it is unclear if MCTC has met this requirement. MCTC should include their Public Participation Plan in an appendix and reference it in their RTP. Public Participation and Outreach see Appendix D The MCTC Public Participation Plan is available by request or by download at modoctransportation.com
- Per Title 23 CFR §450.316(a)(vii), the RTPA shall document and describe how the RTPA considers the needs of those traditionally underserved by the existing transportation system, such as low-income and minority households, who may face challenges accessing the employment and other services. We recommend that MCTC specifically identify the needs of these communities and discuss how these needs will be addressed. Additional information has been added.
- MCTC does not mention in the Draft RTP if a periodic review was conducted to measure the effectiveness of the procedures and strategies contained in the participation plan. Additional information has been added.
- MCTC should include additional detail to describe the consultation that took place with representatives from environmental and economic communities such as airport, transit, and freight. Additional detail has been added.
- On page 17 of the Draft RTP, MCTC identifies the state and federal resource that were contacted for public input. We recommend that MCTC include the letters that were sent out to these state and federal agencies in an appendix.

A listing of the agencies, with a sample letter have been added to Appendix D

Ms. Debbie Pedersen November 15, 2019 Page 4

- Per Title 23 CFR §450.216(j), MCTC must include a comparison with the California State Wildlife Action Plan and include inventories of natural and historic resources, if applicable. Please see Chapter 9 - Environment
- Page 15 of the Draft RTP includes a table that identifies Native American/Tribal consultation. The consultation date for the Cedarville Indian Rancheria is listed as March 6, 2013. MCTC should update this if there has been more recent consultation with the Tribe. This table has been updated.
- Per Title 23 CFR §450.201(a), the RTP should contain a discussion describing the private sector involvement. It is not clear how this requirement was satisfied. Page 17 of the Draft RTP identifies citizen participation under the section titled "Private Sector Participation." MCTC must demonstrate how the private sector, such as major trucking firms, large employers, and business organizations were formally invited to participate in the regional transportation planning process. This has been updated to reflect outreach to the Sunrise Rotary (local businesses) and the Rotary Club of Alturas (noon)
- MCTC's previous RTP noted that the 2008 Public Transit Human Services (PTHS)
 Transportation Plan was being updated. The 2019 RTP should be coordinated and
 consistent with the most recent update of PTHS Transportation Plan.

This information has been updated. This document was renamed to Coordinated Human Transportation Plan

Modal

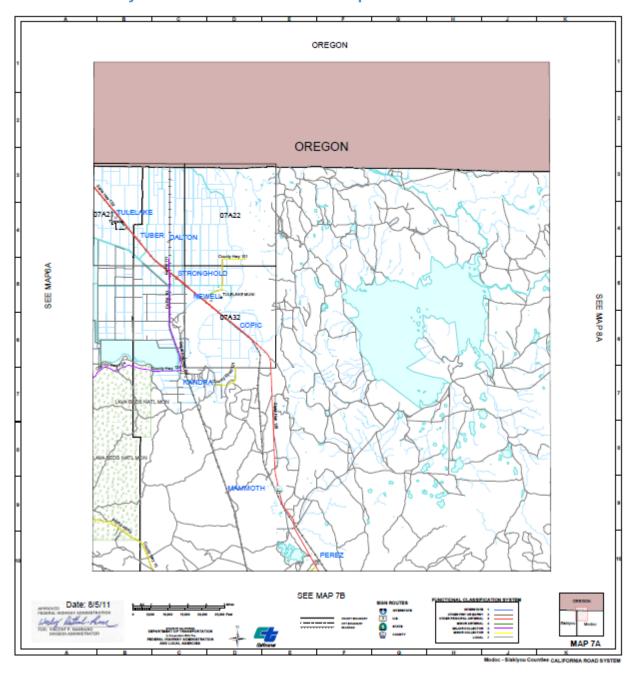
 Per Title 23 CFR §450.324(b), the RTP should discuss intermodal and connectivity issues within the region. While MCTC may not have any ports, the RTP should still include a discussion regarding the interplay between the varying modes of transportation, including freight trucks and trains.
 Clarification has been added to discuss this.

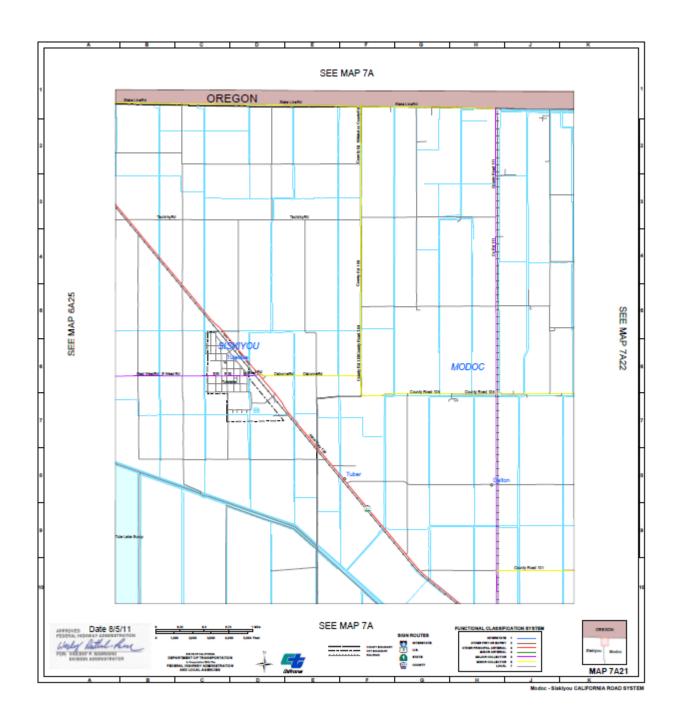
Financial

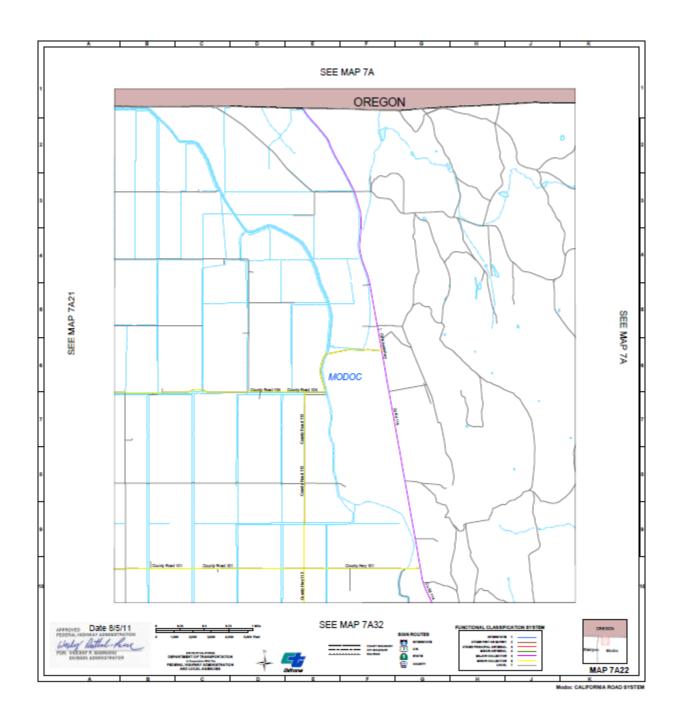
- Chapter 10 of the Draft RTP addresses the financing techniques and the current
 and anticipated revenue sources for MCTC. The chapter makes reference to
 specific funding tables, such as revenue sources, but the tables are not included
 in this chapter, as they were shown in previous chapters. We recommend that the
 tables that are referenced also be included in this chapter to make easier for the
 reader to review the tables. We do not choose to include multiple tables throughout the document.
- Per the 2017 RTP Guidelines, MCTC must clearly identify any regionally significant projects in the project-listing portion of the RTP. If MCTC does not have any regionally significant projects, they should include a statement that there are no regionally significant projects during this planning period.

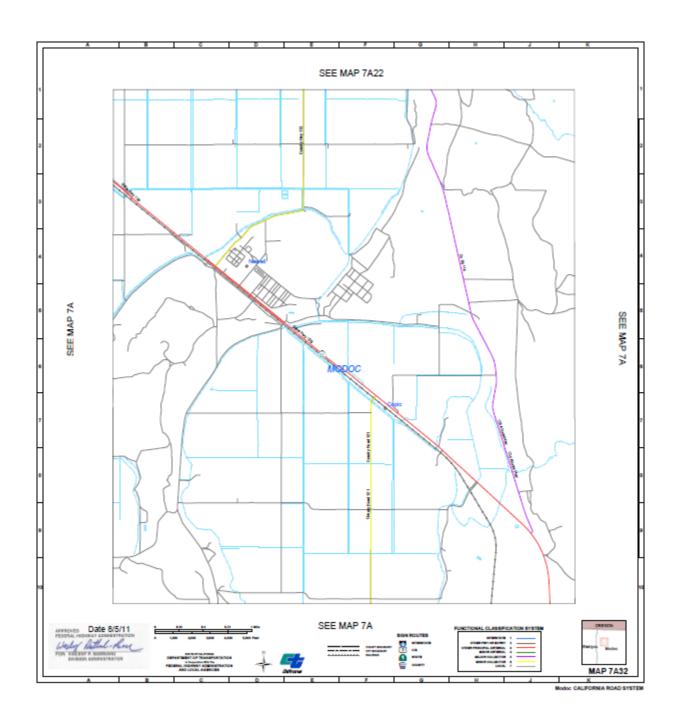
A statement has been added to the RTP - there are no regionally significant projects in the 20 year planning horizon.

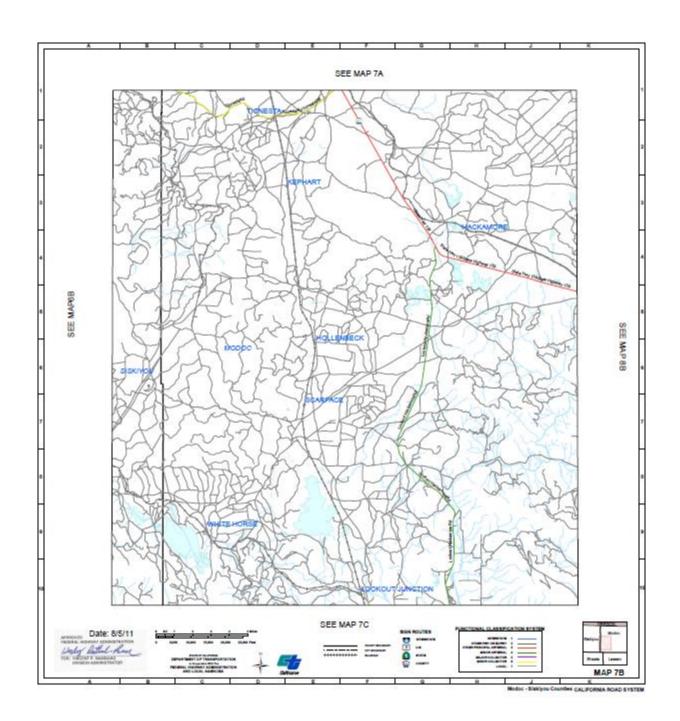
F. Modoc County Functional Classification Maps

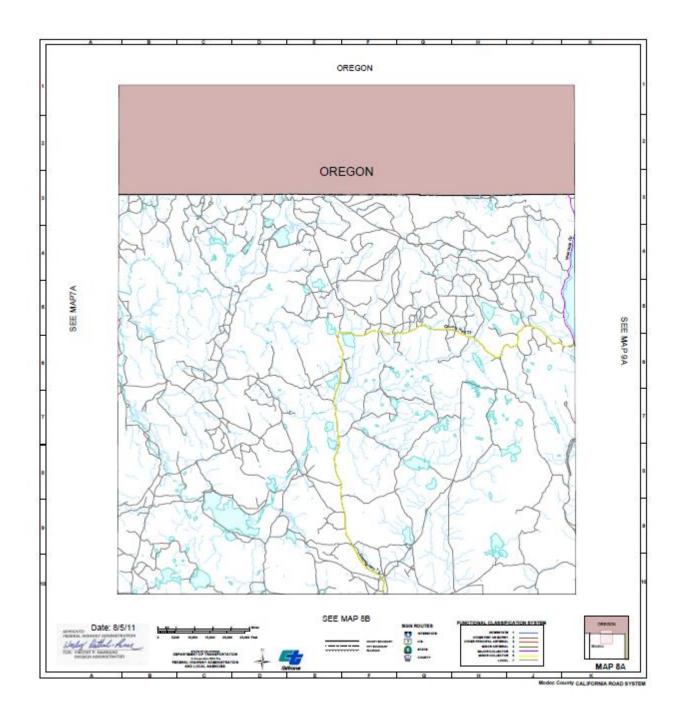


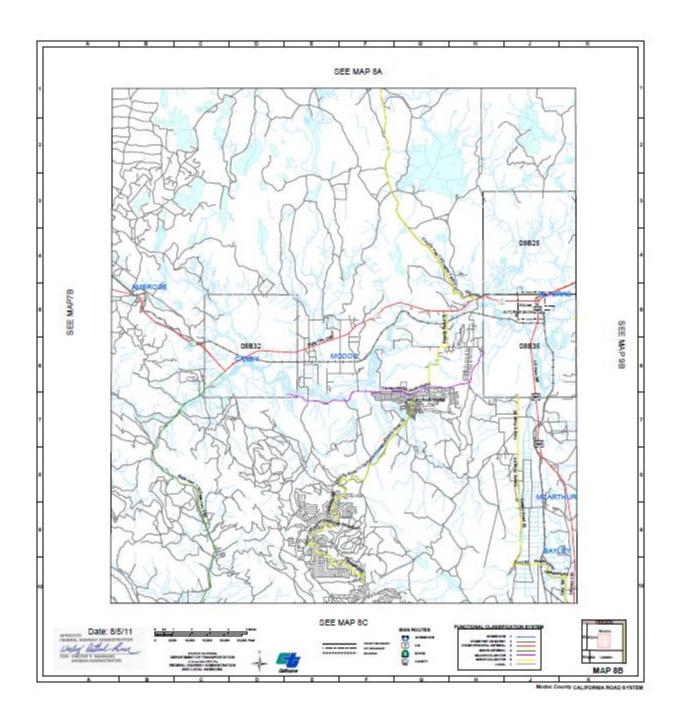


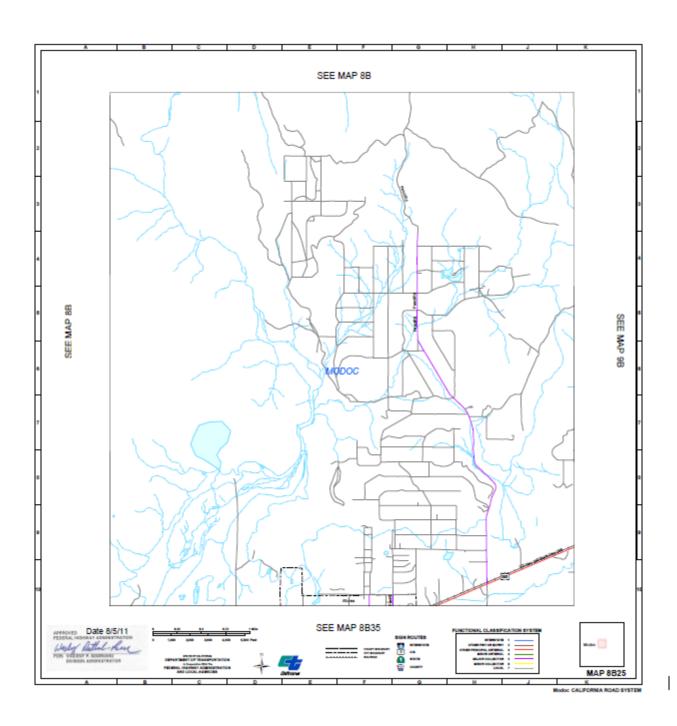


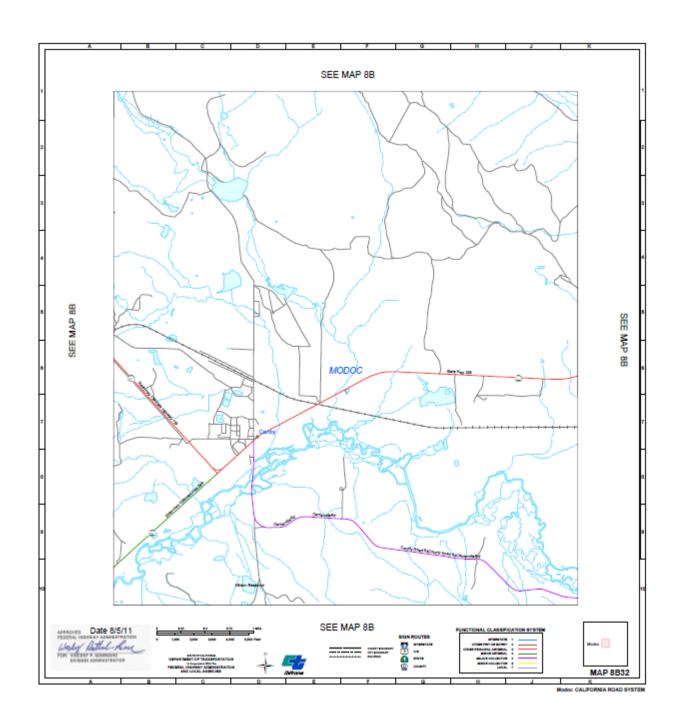


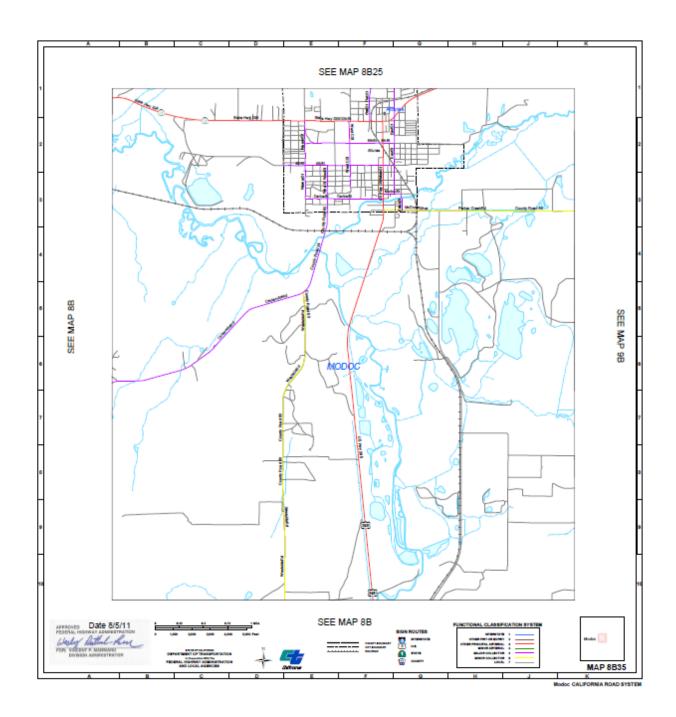


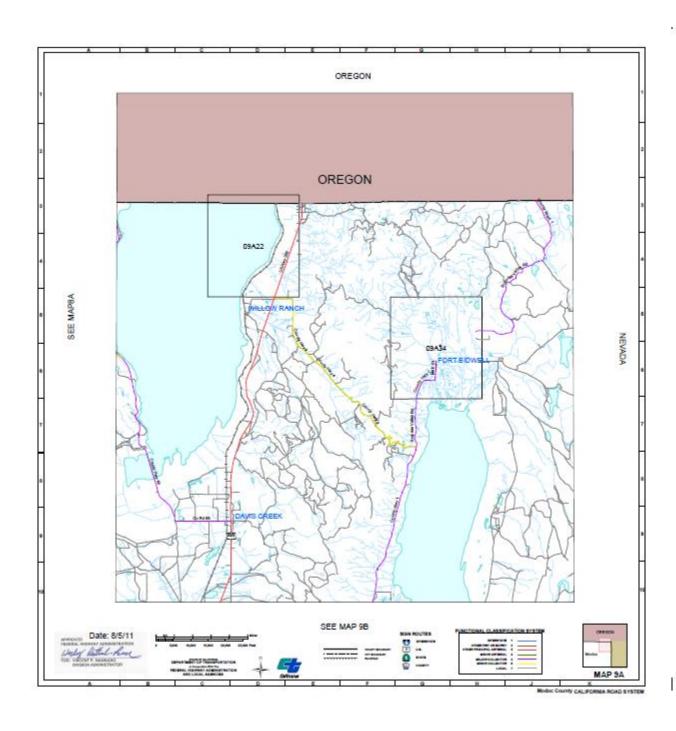


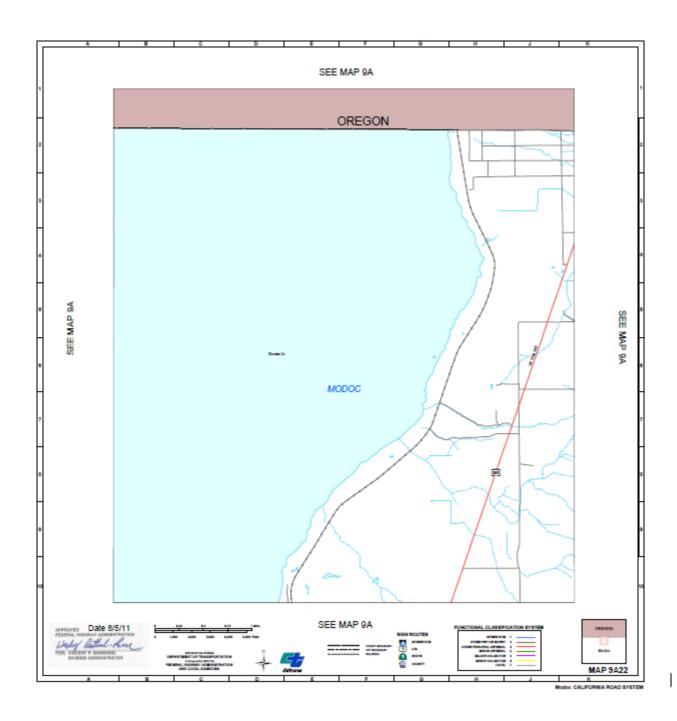


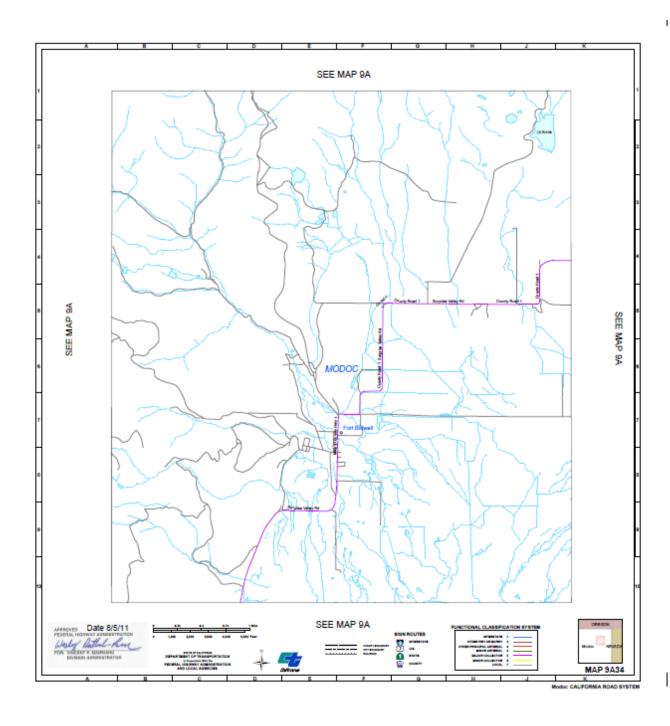


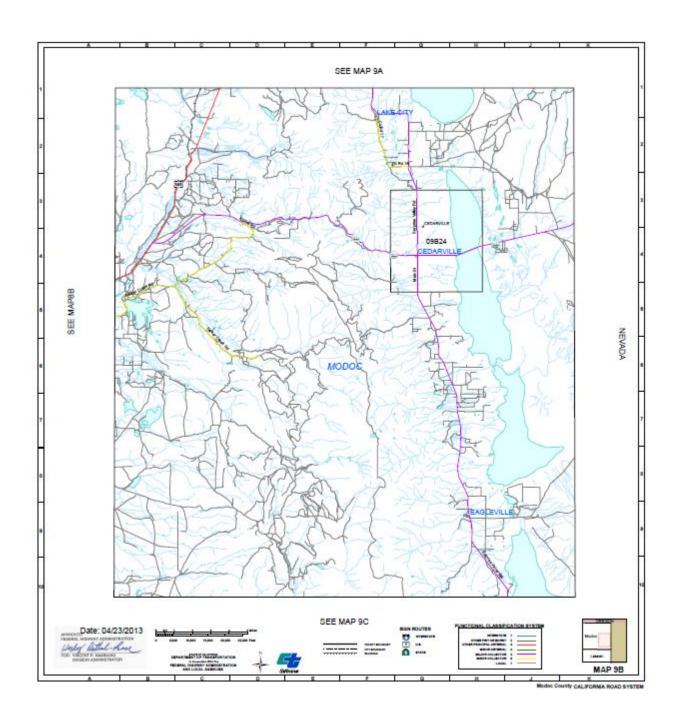


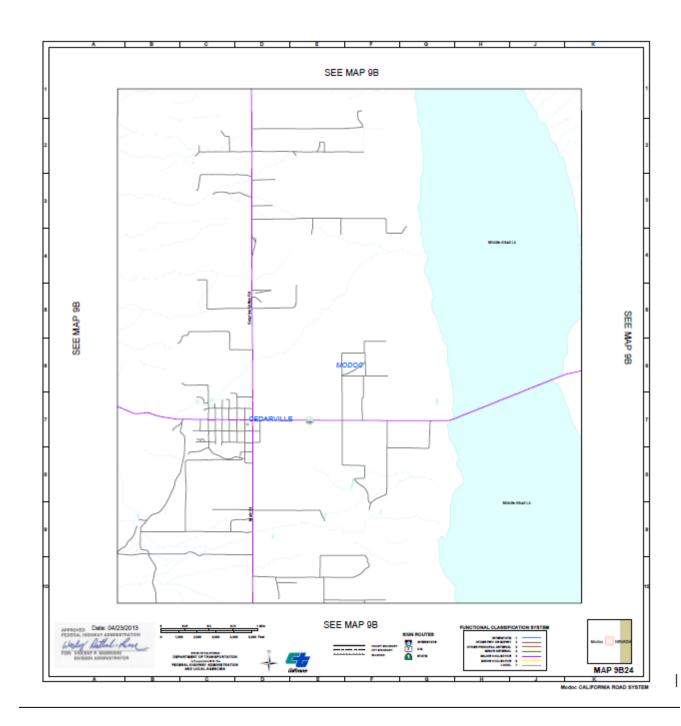












G. Short and Long Range Goals, Policies, and Objectives

Goal	Objective	Policy
Reduce Distressed Lane Miles in Modoc	Short Range - Program STIP funding to local street and road deferred maintenance; support State SHOPP and CAPM projects. Long Range - Program STIP funding to local street and roads.	System preservation is the highest priority for funding from STIP.
Reduce Fatalities, fatal collisions VMT, injury, property damage	Short Range - Support partner agencies safety projects and include them in the RTP Long Range - Support State and local agency safety projects	Safety is a high priority. Support State, City and County safety projects; include these projects in the Regional Transportation Plan
Mobility - Transit Operations	Short Range - MTA to monitor operating cost per revenue mile and farebox ratio. Long Range - Research sources for efficiencies for operations	MTA to have Triennial Performance Audit and monitor the system performance; adjustments to maintain farebox ratios and operating costs. Submit grant funding for a new Short-Range Transit Plan.

H. Specific Conservation Strategies – Modoc Plateau

Table 5.2-1	Table 5.2-1 Conservation Units and Targets – Cascades and Modoc Plateau Province*						
Conservation Unit	Geographic and Ecological Summary	Conservation Target	Target Summary	Focal CWHR Types Associated with Target			
Southern Cascades Ecoregion	Cascades high elevations. While there is no distinct	North Coastal Mixed Evergreen and Montane Conifer Forests	Representative of cool-temperate forests of northern California. These range inland from the immediate coast and experience warm, relatively dry summers and cool rainy to cool snowy winters. The interior mixed evergreen forests contain madrone, tan oak, Oregon oak and drier Douglas-fir with canyon-live oak mixes. At higher elevations, ponderosa pine mixes with incense-cedar. Further up in elevation are mixed white fir, sugar pine, and Jeffrey pine communities. The eastern slopes have open ponderosa and Jeffrey pine stands.	Douglas-Fir; Montane Hardwood-Conifer; Montane Hardwood; Klamath Mixed Conifer; Eastside Pine; Sierran Mixed Conifer; White Fir; Jeffrey Pine; Ponderosa Pine			
		Western Upland Grasslands	Dominated by perennial grasses that are found in moist, lightly grazed, or relic prairie areas. Can be up to 100 percent cover. Includes native grasslands of Idaho fescue, blue wild rye, Great Basin wild rye, ashy ryegrass, Sandberg blue grass, big and bottlebrush squirreltail, one-sided bluegrass. Also includes the non-native grasslands such as creeping bentgrass, velvetgrass, Kentucky bluegrass, Harding grass, and cheat-grass.	Perennial Grassland; Annual Grassland			
Ecoregion Fault-block mountains and ridges with non-marine sedimentary rocks and other formations of materials of volcanic origin. Rivers and streams follow alluvial and bedrock controlled channels to the Sacramento and Klamath Rivers or to basins within the Modoc Plateau. Predominant vegetation communities include big sagebrush, western juniper, Idaho fescue, bluebunch wheatgrass, ponderosa pine, white fir, low sagebrush, Jeffrey pine, lodgepole pine, aspen, and sedge meadow communities. Climate is generally dry and cold in the winter with annual precipitation from 8-30 inches. Summers are hot and dry. Elevation range: 3,000 to 9,900 feet.	Big Sagebrush Scrub	Emblematic of the valleys and lower slopes of the Great Basin Desert. It enters the province in the Modoc Plateau and continues south and east of the Cascades. Occupies dry slopes and flat areas within the ecoregion where annual precipitation is usually 16 inches or less. Dominated by shrubs. Most stands are dominated by big sagebrush and mountain sagebrush. Where the soil remains saturated through the spring, silver sagebrush dominates. On low flats with shallow soils and restricted drainage low sagebrush is dominant. Black sagebrush dominates sites with soils high in gravel and carbonates.	Sagebrush				
	Jeffrey pine, lodgepole pine, aspen, and sedge meadow communities. Climate is generally dry and cold in the winter with annual precipitation from 8-30 inches. Summers are hot and dry. Elevation range: 3,000 to 9,900 feet.	Great Basin Dwarf Sagebrush Scrub	Low subshrub sagebrush species. These species form stands on poor soils, or exposed slopes and ridges where larger sagebrush species are unable to grow. The main species in this macrogroup include low sage, (Lahontan sagebrush, and black sagebrush). Each of these species has different ecological requirements from calcarious shallow soils, deep clay-rich soils, and shallow rocky upland soils.	Low Sage			
		Great Basin Upland Scrub	Shrublands with cool desert affinities but has been segregated from sagebrush species. Predominant species include fire-sensitive, long-lived species such as blackbrush and mountain mahogany; species which recover well from disturbance include spiny hop-sage, winter-fat, Mormon-tea, and some species of bitterbrush. Shorter fire intervals are conducive to emphasizing perennial grass cover such as desert needlegrass, or Indian rice grass (in sandy areas).	Bitterbrush; Low Sage; Sagebrush			

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Conservation Unit	Geographic and Ecological Summary	Conservation Target	Target Summary	Focal CWHR Types Associated with Target
Northwestern Basin and Range Ecoregion	Nearly level basins and valleys bordered by long, gently sloping alluvial fans with linear mountain ranges. Soils are formed mostly from rocks of volcanic origin. Moderately slow rivers and streams flow through deeply incised canyons with bedrock controlled channels (higher elevations) to alluvial channels (lower elevations). A few large lakes, such as Honey Lake, occur here. Vegetation consists of sagebrush and desert shrub cover types. Climate is dry with cold winters and annual precipitation from 4 to 20 inches. Summers are hot and dry. Elevation range: 4,000 to 8,000 feet.	Great Basin Pinyon-Juniper Woodland	Found on virtually all exposures and slopes but is common on level to gently rolling topography. Dominated by Utah or western juniper stands. Very little, if any single-leaf pinyon or California juniper, are present. Shrub species include sagebrush, mountain mahogany, bitterbrush and other cool-desert shrubs and grasses. Denser stands are associated with a grassier understory while more open stands have shrubs.	Pinyon-Juniper; Juniper
North Lahontan Hydrologic Unit (HUC 1808)	Includes the eastern slopes of the Warner Mountains and the Sierra Nevada. Major watersheds in the North Lahontan Basin include the Eagle Lake and Susan River/Honey Lake watersheds. Dominant vegetation ranges from sagebrush to pinyon-juniper and mixed conifer forest at higher elevations. Wetland and riparian plant communities, including marshes, meadows, bogs, riparian deciduous forest, and desert washes. Elevation range: 4,000 to 7,600 feet	Eagle Lake Native Fish Assemblage	Lake habitats consist of closed basins with large, shallow alkaline water of high pH and warm summer water temperatures. Stream habitats are composed of low gradient, intermittent, streams that cross pine forest and sagebrush flats. The Eagle Lake Native Fish Assemblage consists of five species: Eagle Lake rainbow trout Eagle Lake tui chub Tahoe sucker Lahontan speckled dace Lahontan redside	N/A