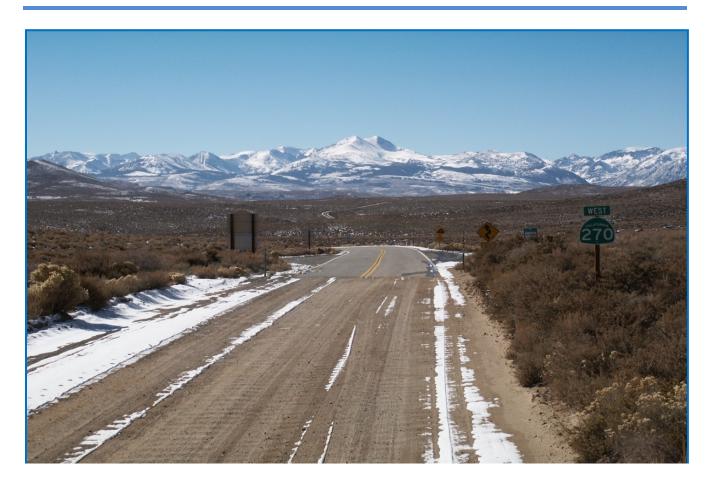


Transportation Concept Report State Route 270 District 9 July 2013





Disclaimer: The information and data contained in this document are for planning purposes only and should not be relied upon for final design of any project. Any information in this Transportation Concept Report (TCR) is subject to modification as conditions change and new information is obtained. Although planning information is dynamic and continually changing, the District 9 System Planning Division makes every effort to ensure the accuracy and timeliness of the information contained in the TCR. The information in the TCR does not constitute a standard, specification, or regulation, nor is it intended to address design policies and procedures.

California Department of Transportation

Caltrans Improves Mobility Across California

Approvals:			
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District 9 Deputy Director Planning and Programming		District 9 Director	

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ABOUT THE TRANSPORTATION CONCEPT REPORT

System Planning is the long-range transportation planning process for the California Department of Transportation (Caltrans). The System Planning process fulfills Caltrans' statutory (Gov. Code §65086) responsibility as owner/operator of the State Highway System (SHS) by evaluating conditions and proposing enhancements to the SHS. Through System Planning, Caltrans focuses on developing an integrated multimodal transportation system that meets Caltrans' goals of safety, mobility, delivery, stewardship, and service.

The System Planning process is primarily composed of four parts: the District System Management Plan (DSMP), the Transportation Concept Report (TCR), the Corridor System Management Plan (CSMP), and the DSMP Project List. The district-wide **DSMP** is a strategic policy and planning document that focuses on maintaining, operating, managing, and developing the transportation system. The **TCR** is a planning document that identifies the existing and future route conditions as well as future needs for each route on the SHS. The **CSMP** is a complex, multi-jurisdictional planning document that identifies future needs within corridors experiencing or expected to experience high levels of congestion. The CSMP serves as a TCR for segments covered by the CSMP. The **DSMP Project List** is a list of planned and partially programmed transportation projects that recommends projects for funding. These System Planning products are also intended as resources for stakeholders, the public, and partner, regional, and local agencies.

TCR Purpose

California's State Highway System needs long range planning documents to guide the logical development of transportation systems as required by CA Gov. Code §65086 and as necessitated by the public, stakeholders, and system users. The purpose of the TCR is to evaluate current and projected conditions along the route and communicate the vision for the development of each route in each Caltrans District during a 20-25 year planning horizon. The TCR is developed with the goals of increasing safety, improving mobility, providing excellent stewardship, and meeting community and environmental needs along the corridor through integrated management of the transportation network, including the highway, transit, pedestrian, bicycle, freight, operational improvements and travel demand management components of the corridor.

STAKEHOLDER PARTICIPATION

Internal and external stakeholder participation was sought throughout the development of the State Route (SR) 270 TCR. As information for the TCR was gathered, stakeholders were contacted for input related to their particular specializations, and to verify data sources used and data accuracy. Prior to document finalization, stakeholders were asked to review the document for comments, edits, and for consistency with the intent of existing plans, policies, and procedures. The process of including and working closely with stakeholders adds value to the TCR, allows for external input and ideas to be reflected in the document, increases credibility, and helps strengthen public support and trust.

Stakeholders in the SR 270 planning area are community members and agencies, including, but not limited to:

- Bodie Foundation
- Bodie Hills Conservation Partnership
- Bridgeport Indian Colony
- Bureau of Land Management, Bishop Field Office
- California Department of Parks and Recreation, Bodie State Historic Park
- California State Lands Commission

- Caltrans Functional Units: Environmental, Local Assistance, Maintenance, Maintenance Engineering, Planning, Program/Project Management, Right of Way, and Traffic Operations
- Community of Bridgeport
- Great Basin Valleys Air Quality Management District
- Mono County
- Mono County Local Transportation Commission



SR 270 Location Map Caltrans District 9, Mono County

EXECUTIVE SUMMARY

SR 270, also known as Bodie Road, is an undivided two-lane conventional (2C) highway located in Caltrans' District 9 in Mono County. It begins at the junction with United States highway (US) 395 and continues east toward Bodie State Historic Park (Bodie SHP). SR 270 provides primary access to Bodie SHP which is both a National Historic Landmark and State Historic Park. The SR 270 TCR evaluates recent traffic conditions along the route using 2011 as a Base Year (BY) and projects conditions for the route over the next twenty years utilizing a Horizon Year (HY) of 2031.

Concept Summary Table

Segment #	Segment Description	Existing Facility	20-25 Year Facility Concept
1	US 395 to 9.805 miles east of US 395	2C	2C, Maintain Only
Potential	9.805 miles east of US 395 to Bodie State Historic Park	Legislative Route,	2C
Continuation	9.803 Illies east of 03 393 to boule state historic Park	Unpaved	20

Concept Rationale

No significant growth or development is anticipated in the rural area served by SR 270. With relatively low traffic volumes expected to continue, capacity expansion is not warranted and the route is expected to remain a two-lane conventional highway. Winding, mountainous terrain varying in elevation from 6,800 to 8,300 feet (ft) restricts driving speeds and adds to the high impact and cost of projects. Furthermore, developing a higher standard facility is unlikely because the California Department of Parks and Recreation (Parks Department) wants to preserve the feeling of isolation and ghost town experience leading into Bodie SHP. Maintaining the route, widening lanes and shoulders, constructing turnouts, and improving drainage are the focus of the segment.

Proposed Projects and Strategies

No improvements are currently planned or programmed for SR 270. The Parks Department has expressed interest in and the Mono County Regional Transportation Plan (RTP) recommends paving approximately two miles of roadway beginning where the asphalt currently ends at Murphy Springs and continuing east to the first cattle guard at the edge of Bodie Bowl. The last mile of the road, from the cattle guard to the Park kiosk, will remain dirt road in order to maintain the authenticity of the historic "Bodie Experience." Subsequently, the Parks Department and Mono County would like the newly paved portion adopted by the California Transportation Commission (CTC) and turned over to Caltrans for maintenance. Caltrans will consider the implications and costs of acquiring new road miles, which must be constructed to state standards, upon project initiation and development.

CORRIDOR OVERVIEW

ROUTE SEGMENTATION

Segment #	Location Description	County_Route_ Beg. PM	County_Route_ End PM
1	US 395 to 9.805 miles east of US 395	MNO_270_0.000	MNO_270_9.805
Potential Continuation	9.805 miles east of US 395 to Bodie State Historic Park	MNO_270_9.805	MNO_270_13.300

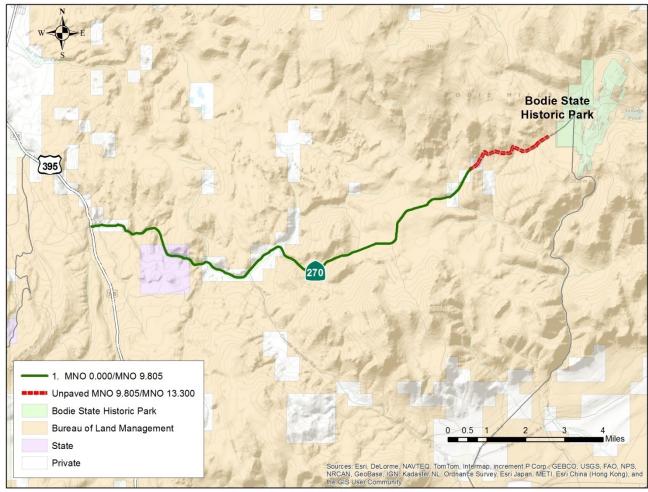


Figure 1: SR 270 Segment Map

ROUTE DESCRIPTION

SR 270 is located in northeastern Mono County and is included in the County's designated scenic highway system. It begins at the junction with US 395 (PM 0.000), 6.287 miles north of Conway Summit in the Bodie Hills, and extends east to its terminus at 9.805 miles from US 395 (PM 9.805). In 1970, the California State Legislature passed an assembly bill adding SR 270, from US 395 to Bodie SHP, to the SHS. In 1978, the CTC adopted SR 270 from US 395 to 9.805 miles east of US 395 (Segment 1). Segment 1 is a paved road and is maintained by Caltrans District 9. The Parks Department maintains the 3.495 miles of unpaved road thereafter. For the purpose of this TCR and unless otherwise stated, SR 270 refers only to the CTC adopted and Caltrans maintained highway from PM 0.000 to PM 9.805. Due to low traffic volumes and functional classification, the Maintenance Service Level (MSL) of the route is 3. MSL 3 indicates a route with the lowest maintenance priority

SR 270 is functionally classified as a Major Collector, providing access to Bodie SHP, recreational opportunities, and sheep ranching lands. Services such as food, lodging, and gasoline, are not available along SR 270 or in Bodie. The route is closed seasonally to automobiles, generally from November through May, because snow is not removed. During the road closure period, the park is accessible only by skis, snowshoes, or snowmobiles. In contrast, during the peak season, June to October, recreational traffic becomes prevalent along the route. In 2012, Bodie SHP received over 114,000 visitors, an increase from 98,000 the previous year. The park employs five people who live onsite year-round. The addition of seasonal employees brings the resident number to approximately twenty.

SR 270 is shared by all permissible modes of transportation. The highway is designated as a California Legal Advisory Route from the SR 270/US 395 junction (PM 0.000) to the end of the pavement (PM 9.805). Trucks with a kingpin-to-rear-axle distance over 30 ft are advised not to travel; buses and motor homes over 40 ft in length are prohibited.

Route Designation and Characteristics

Segment #	1		
Freeway and Expressway System	No		
National Highway System	No		
Strategic Highway Network	No		
State Scenic Highway	No		
Interregional Road System	No		
High Emphasis Route	No		
Focus Route	No		
Federal Functional Classification	Major Collector		
Goods Movement Route	No		
Truck Designation	CA Legal Advisory		
Rural/Urban/Urbanized	Rural		
Regional Transportation Planning Agency	Mono County Local Transportation Commission		
County Transportation Commission	Mono County Local Transportation Commission		
Local Agency	Mono County		
Tribes	Bridgeport Indian Colony		
Air District	Great Basin Unified Air Pollution Control District		
Terrain	Mountainous, Winding		

COMMUNITY CHARACTERISTICS

Communities within the vicinity of SR 270 do not exist.

LAND USE

Segment #	Place Type
1	Rural, Majority is Publicly Owned

Adjacent to SR 270, land use designation is authorized for agriculture, resource management, and rural resort. The land is owned by the Bureau of Land Management (BLM), the Parks Department, Mono County, State of California Lands Commission, and some private landowners. The remaining structures and remnants of the legendary boomtown and historic mining region of Bodie create the Bodie Experience; hence, the park is preserved and managed in a state of arrested decay. The area is a major recreational attraction in Mono County and provides visitors a unique sense of frontier life in the 1880s. Preserving the Bodie Experience is of upmost importance to the Parks Department, the BLM, Mono County, and various interest groups.

The Mono County General Plan, Land Use Element, from 2012, outlines many objectives and policies geared toward the goal of protecting and enhancing the Bodie Hills Planning Area resources that complement the Bodie Experience. The plan states that developments must be compatible with the existing cultural, historic and natural values of the area. With regard to transportation on SR 270, the plan calls upon Caltrans and Mono County to develop scenic turnouts with interpretive information. Agriculture, resource management activities, and rural resort uses on private lands are allowed if the activity does not detract from the Bodie Experience.

SR 270 lies within the Bodie Hills Management Area as designated by the BLM. According to the BLM, this area has significant mineral, wildlife, riparian, livestock grazing, cultural, and recreational value (U.S. Department of the Interior, Bureau of Land Management, *Bishop Resource Management Plan and Environmental Impact Statement*, August 1991). The BLM's Resource Management Plan (RMP) reflects the agency's desire to enhance dispersed recreation opportunities such as off-highway vehicle touring, primitive camping, mountain biking, sightseeing, and environmental interpretation. Subject to existing law, mining on valid, existing claims on public lands is allowed.

SYSTEM CHARACTERISTICS

SR 270 is a two-lane conventional highway without access control. It is comprised of 9.805 paved lane miles with a speed limit of 55 miles per hour (mph). Neither capacity increasing or facility expansion projects are envisioned within the 20 year capital facility concept. Paved and unpaved turnouts and aprons exist along the highway while all access roads are unpaved.

Segment #	1				
Existing Facility					
Facility Type	Conventional				
General Purpose Lanes	2				
Lane Miles	9.805				
Centerline Miles	9.805				
Median Width	0				
Passing Lanes	0				
Truck Climbing Lanes	0				
Distressed Pavement	0%				
Current Right-of-way (ROW)	60 – 100 ft, by prescriptive rights and R.S. 2477				
	Concept Facility				
Facility Type	С				
General Purpose Lanes	2				
Lane Miles	9.805				
Centerline Miles	9.805				
Median Width	0				
Passing Lanes	0				
Truck Climbing Lanes	0				
	Post 20 Year Facility				
Facility Type	С				
General Purpose Lanes	2				
Lane Miles	9.805				
Centerline Miles	9.805				
Passing Lanes	0				
Truck Climbing Lanes	0				

BICYCLE FACILITY

There are no designated bicycle routes on SR 270 and a parallel facility is not present. The Bodie SHP Supervising Ranger, Tom Gunther, estimates an average of ten bicyclists per summer season utilize the route. Bicyclists share the road with automotive traffic due to shoulders being variable in width.

To help fulfill the objective of providing for multimodal travel into Bodie, the Mono County RTP lists development of a Bodie bike route loop along SR 270, Cottonwood Canyon Road, SR 167 and US 395 as an

action item. The bike route loop should consist of a shared roadway with a minimum of 4 ft of paved shoulder. Also, it is suggested that bicycle racks and a bicycle parking area at the visitor center be provided.

		Parallel Bicycle Facility						
Segment #	Post Mile	Location Description Bicycle Access Prohibited Facility Type Outside Paved Shoulder Width		Posted Speed Limit	Parallel Facility Present			
1	0.000- 9.805	US 395 to 9.805 miles east of US 395	No	No Bikeway Designation	1–5 ft	Topography is winding, mountainous terrain. Bicyclists share the road with automotive traffic.	55 mph	No

PEDESTRIAN FACILITY

Pedestrian traffic on SR 270 is minimal and pedestrian specific facilities do not exist. Due to variable width shoulders, pedestrians may utilize the paved shoulder, the unpaved shoulder, and/or the roadway.

Segment #	Post Mile	Location Description	Pedestrian Access Prohibited	Sidewalk Present	Crossing Distance	Facility Description
1	0.000- 9.805	US 395 to 9.805 miles east of US 395	No	No	21–40 ft	Pedestrians use paved and unpaved shoulders of varying widths, and/or the roadway

ENVIRONMENTAL CONSIDERATIONS

The purpose of this environmental scan is to identify environmental factors that may need future analysis in the project development process. This information does not represent all possible environmental considerations that may exist within the area surrounding the route and any SR 270 project being considered for programming would require environmental clearance in compliance with all federal, state, and local environmental laws and regulations. The environmental factors identified in the environmental scan have been scaled (high, medium, or low) by district staff based on the probability of encountering such environmental issues.

BLM issued a decision record designating the Bodie Bowl as an Area of Critical Environmental Concern (ACEC). An ACEC Plan accompanies such designation and provides guidelines for "limits of acceptable change." Any project proposed within the Bodie Bowl is required to meet strict standards and specific criteria.

The following environmental factors were included in the scan:

- Section 4(f) Land: SR 270 is the only paved road accessing Bodie SHP which is a publicly owned state park with historic significance.
- Cultural Resources: There are several known prehistoric and historic archaeological sites along SR 270; therefore, the appropriate level of archaeological and historical studies, including Native American consultation, will be required for any project along this route including the assessment and possible mitigation to all cultural resource impacts. According to the BLM's RMP, cultural inventory State Historic Preservation Officer (SHPO) review processes would be followed in accordance with Section 106 of the National Historic Preservation Act of 1966.
- Visual Aesthetics: Mono County, the Parks Department, and various interest groups seek to preserve
 the existing character of the route so all transportation projects within the corridor should consider
 maintaining the Bodie Experience as they are developed.
- Air Quality: Mono County is part of the Great Basin Valleys Air Basin under the stewardship of the Great Basin Unified Air Pollution Control District. Mono County is identified as an area of unclassifiable/attainment for Ozone, Particulate Matter (PM) 2.5, and Carbon Monoxide. With regard to PM 10, SR 270 lies within two different identification areas, unclassifiable and nonattainment. During windy conditions, PM 10 levels spike on a short term, episodic basis when dust from the Mono and Owens lakebeds produce high concentrations of particulate matter in the air.
- Waters and Wetlands: Within the SR 270 corridor, Clearwater Creek flows about half of the length of
 the route and is on the 303(d) list of impaired waters. However, according to Lahontan Regional Water
 Quality Control Board, Clearwater Creek will be delisted in 2014. While there are several waters located
 along the route, Clearwater Creek is the only named system.
- Special Status Species: The following species are within a 2000 ft wide corridor centered along SR 270:
 - Greater sage-grouse, Centrocercus urophasianus; Species of Special Concern (SSC)/California Department of Fish and Wildlife (CDFW), Candidate/United States Fish & Wildlife Service (USFWS)
 - Mono County phacelia, Phacelia monoensis; Rare Plant Rank 1B.1, seriously endangered/California Native Plant Society (CNPS)
 - o Bodie Hills cusickiella, Cusickiella quadricostata; Rare Plan Rank 1B.2, fairly endangered/CNPS

	ъ	es	S	Air Quality				Air Quality 💆			cies
#	Land	ourc	hetic		Particulat	e Matter	xide	Wetlands	Spe		
Segment	Section 4(f)	Cultural Resources	Visual Aesthetics	Ozone (O ₃)	2.5	10	Carbon Monoxide (CO)	Waters and W	Special Status Species		
1	мо7	High	High	Unclassifiable/ Attainment	Unclassifiable/ Attainment	Unclassifiable/ Nonattainment	Unclassifiable/ Attainment	High	Low		

CORRIDOR PERFORMANCE

For the 2011 BY, Segment 1 carried 480 Annual Average Daily Trips (AADT), 5.65% of which were associated with truck travel. Because SR 270 is closed for several months each year due to snow, AADT calculation is not done in a standard manner. The AADT is based only on the time it is open, not the full year. Months in which the road is closed are not included in the calculation. The segment currently operates at Level of Service (LOS) A. LOS degradation is not anticipated; hence, capacity increasing projects are not warranted or proposed for the facility through the HY of 2031. Future safety and operational improvements may be pursued but will have to take into account potential scenic and/or environmental impacts.

Segment #	1					
Basic System Operations						
AADT (BY)	480					
AADT (HY)	480					
AADT: Growth Rate/Year	0%					
LOS Method	Highway Capacity Manual (HCM)					
LOS (BY)	A					
LOS (HY)	A					
LOS Concept	С					
Vehicle Miles Traveled (VMT) (BY)	4706					
VMT (HY)	4706					
Truck Traffic						
Total Average Annual Daily Truck Traffic (AADTT) (BY)	27					
Total Average Annual Daily Truck Traffic (AADTT) (HY)	27					
Total Trucks (% of AADT) (BY)	5.65%					
Total Trucks (% of AADT)(HY)	5.65%					
5+ Axle Average Annual Daily Truck Traffic (AADTT) (BY)	0					
Peak Hour Traffic I	Data					
Peak Period Length	1					
Peak Hour Direction	East					
Peak Hour Time of Day	PM					
Peak Hour Directional Split (BY)	50/50					
Peak Hour Directional Split (HY)	50/50					
Peak Hour VMT (BY)	647					
Peak Hour VMT (HY)	647					

Corridor Performance table displays 2011 Base Year (BY) traffic data and estimates a Horizon Year (HY) of 2031.

KEY CORRIDOR ISSUES

For Segment 1, drainage improvements, turnouts, and wider lanes and shoulders are ideal upgrades for SR 270. Mono County's objectives for the Bodie Hills area are to improve existing transportation and access for multiple modes by enhancing safe, convenient travel. The objectives include: reducing washboard roadbed and dust problems; providing for alternative modes of travel such as pedestrian, bicycle, and/or equestrian; installing transportation amenities such as scenic turnouts, interpretive kiosks, and a common signing program (informational, educational, and directional); and maintaining a road system that serves both public and private landowners.

CORRIDOR CONCEPT

CONCEPT RATIONALE

No significant growth or development is anticipated in the rural area served by SR 270. With relatively low traffic volumes expected to continue, capacity expansion is not warranted and the route is expected to remain a two-lane conventional highway. Winding, mountainous terrain varying in elevation from 6,800 to 8,300 ft restricts driving speeds and adds to the high impact and cost of projects. Furthermore, developing a higher standard facility is unlikely because the Parks Department wants to preserve the feeling of isolation and ghost town experience leading into Bodie SHP. Maintaining the route, widening lanes and shoulders, constructing turnouts, and improving drainage are the focus of the segment.

PLANNED AND PROGRAMMED PROJECTS AND STRATEGIES

Currently, there are no planned or programmed projects identified for SR 270.

PROJECTS AND STRATEGIES TO ACHIEVE CONCEPT

Segment #	Description	Location	Source	Purpose	Implementation Phase
1	Widen shoulders to four feet (combination of paved and unpaved)	US 395 to 9.805 miles east of US 395	Caltrans District 9	Maintenance and Operations	Long Term
1	Widen lanes to twelve feet	US 395 to 9.805 miles east of US 395	Caltrans District 9	Maintenance and Operations	Long Term
1	Paved turnouts	Various	Caltrans District 9	Operations	Long Term
1	Culvert extensions	Various	Caltrans District 9	Maintenance	Long Term
1	Establish a trail system in the Bodie Hills that provides for equestrian, cycling, and pedestrian use	SR 270 and other locations	Mono County RTP	Multimodal Use	Long Term
1	Extend pavement on Bodie Road	From Murphy Springs to cattle guard at edge of Bodie Bowl	Mono County RTP	Maintenance and Operational Enhancement	Long Term
1	Scenic turnouts with interpretive displays	Various	Mono County RTP	Transportation Enhancement	Long Term
1	Bodie bike route loop	SR 270, Cottonwood Canyon Road, SR 167 and US 395	Mono County RTP	Multimodal Use	Long Term

APPENDIX

APPENDIX A GLOSSARY OF TERMS AND ACRONYMS

Acronyms

2C - Two-Lane Conventional Highway

AADT – Annual Average Daily Traffic

ACEC - Area of Critical Environmental Concern

Bodie SHP – Bodie State Historic Park

BLM – Bureau of Land Management

BY - Base Year

Caltrans – California Department of Transportation

CDFW – California Department of Fish and Wildlife

CNPS – California Native Plant Society

CNDDB – California Natural Diversity Database

FHWA – Federal Highway Administration

HCM – Highway Capacity Manual

HY – Horizon Year

LOS - Level of Service

MNO - Mono County

MPH - Miles Per Hour

MSL - Maintenance Service Level

N/A - Not Applicable

Parks Department – California Department of Parks and Recreation

PM - Post Mile or Particulate Matter

R/W – Right-of-Way

RMP – Resource Management Plan

RTP - Regional Transportation Plan

SHPO – State Historic Preservation Officer

SHS - State Highway System

SR – State Route

SSC – Species of Special Concern

TCR – Transportation Concept Report

US 395 – United States highway 395

USFWS - United States Fish & Wildlife Service

VMT - Vehicle Miles Traveled

Definitions

Annual Average Daily Traffic (AADT) – The total volume for the year divided by 365 days. The traffic count year is from October 1st through September 30th. Traffic counting is generally performed by electronic counting instruments moved from location to location throughout the state in a program of continuous traffic count sampling. The resulting counts are adjusted to an estimate of annual average daily traffic by compensating for seasonal influence, weekly variation and other variables which may be present. AADT is necessary for presenting a statewide picture of traffic flow, evaluating traffic trends, computing accident rates, planning and designing highways and other purposes.

Base Year (BY) – The year that the most current data is available to the districts.

Capacity – The maximum sustainable hourly flow rate at which persons or vehicles reasonably can be expected to traverse a point or a uniform section of a lane or roadway during a given time period under prevailing roadway, environmental, traffic, and control conditions.

Capital Facility Concept – The 20-25 year vision of future development on the route to the capital facility. The capital facility can include capacity increasing, state highway, bicycle/pedestrian/transit facility, grade separation, and new managed lanes.

Concept LOS – The minimum acceptable LOS over the next 20-25 years.

Conceptual Project – A conceptual improvement or action is a project that is needed to maintain mobility or serve multimodal users, but is not currently included in a financially constrained plan and is not currently programmed. It could be included in a general plan or in the unconstrained section of a long-term plan.

Conventional Highway – A highway generally without controlled access. Grade separations at intersections or access control may be used at spot locations when justified.

Facility Concept – Describes the facility and strategies that may be needed within 20-25 years. This can include capacity increasing, state highway, bicycle/pedestrian/transit facility, non-capacity increasing operational improvements, new managed lanes, conversion of existing managed lanes to another managed lane type or characteristic, TMS field elements, and transportation demand/incident management.

Facility Type — The facility type describes the state highway facility type. The facility could be freeway, expressway, conventional, or one-way city street.

Functional Classification – Guided by federal legislation, refers to a process by which streets and highways are grouped into classes or systems according to the character of the service that is provided, i.e. Principal and Minor Arterial Roads, Collector Roads, and Local Roads.

Horizon Year (HY) – The year that the future (20-25 years) data is based on.

Level of Service (LOS) – A qualitative measure describing operational conditions within a traffic stream and their perception by motorists. A LOS definition generally describes these conditions in terms of speed, travel time, freedom to maneuver, traffic interruption, comfort, and convenience. Six levels of LOS can generally be categorized as follows:



LOS A describes free-flowing conditions. The operation of vehicles is virtually unaffected by the presence of other vehicles, and operations are constrained only by the geometric features of the highway.



LOS B is also indicative of free-flow conditions. Average travel speeds are the same as in LOS A, but drivers have slightly less freedom to maneuver.



LOS C represents a range in which the influence of traffic density on operations becomes marked. The ability to maneuver with the traffic stream is now clearly affected by the presence of other vehicles.



LOS D demonstrates a range in which the ability to maneuver is severely restricted because of the traffic congestion. Travel speed begins to be reduced as traffic volume increases.



LOS E reflects operations at or near capacity and is quite unstable. Because the limits of the level of service are approached, service disruptions cannot be damped or readily dissipated.



LOS F a stop and go, low speed conditions with little or poor maneuverability. Speed and traffic flow may drop to zero and considerable delays occur. For intersections, LOS F describes operations with delay in excess of 60 seconds per vehicle. This level, considered by most drivers unacceptable often occurs with oversaturation, that is, when arrival flow rates exceed the capacity of the intersection.

Maintenance Service Level (MSL) – For maintenance programming purposes, the State Highway System has been classified as Class 1, 2, and 3 highways based on the MSL descriptive definitions.

Multimodal – The availability of transportation options using different modes within a system or corridor, such as automobile, bus, bicycle, or equestrian.

Peak Hour – The hour of the day in which the maximum volume occurs across a point on the highway.

Peak Hour Volume – The hourly volume during the highest hour traffic volume of the day traversing a point on a highway segment. It is generally between 6 percent and 10 percent of the Annual Daily Traffic (ADT). The lower values are generally found on roadways with low volumes.

Planned Project – A planned improvement or action is a project in a financially constrained section of a long term plan, such as an approved Regional Transportation Plan (RTP), Capital Improvement Plan, or bond measure program.

Post-25 Year Concept – In general, the Post-25 Year Concept could provide the maximum reasonable and foreseeable roadway needed beyond a 20-25 year horizon. The post-25 year concept can be used to identify potential widening, realignments, future facilities, and rights-of-way required to complete the development of each corridor.

Post Mile – A post mile is an identified point on the State Highway System. Post mile values increase from the beginning of a route within a county to the next county line and start over again at each county line. Post mile values usually increase from south to north or west to east depending upon the general direction the route follows within the state. The post mile at a given location will remain the same year after year. When a section of road is relocated, new post miles (usually noted by an alphabetical prefix such as "R" or "M") are established.

If relocation results in a length change, "post mile equations" are introduced at the end of each relocated portion so that post miles on the remainder of the route within the county remain unchanged.

Programmed Project – A programmed improvement or action is a project in a near term programming document identifying funding amounts by year, such as the State Transportation Improvement Program or the State Highway Operations and Protection Program.

Route Designation –A route's designation is adopted through legislation and identifies what system the route is associated with on the State Highway System. A designation denotes what design standards should apply during project development and design. Typical designations include, but are not limited to, National Highway System (NHS), Interregional Route System (IRRS), and Scenic Highway System.

Rural – According to the United States Census Bureau, rural consists of all territory, population, and housing units located outside Urbanized Areas (UAs) and Urbanized Clusters (UCs). UA and UC boundaries represent densely developed territory, encompassing residential, commercial, and other nonresidential urban land uses. A UA consists of densely developed territory that contains 50,000 or more people. A UC consists of densely developed territory that has at least 2,500 people but fewer than 50,000 people.

Segment – A portion of a facility between two points.

System Operations and Management Concept – Describes the system operations and management elements that may be needed within 20-25 years. This can include non-capacity increasing operational improvements (auxiliary lanes, channelizations, turnouts, etc.), conversion of existing managed lanes to another managed lane type or characteristic, TMS field elements, transportation demand management, and incident management.

Transportation Management System (TMS) – The business processes and associated tools, field elements and communications systems that help maximize the productivity of the transportation system. TMS includes, but is not limited to, advanced operational hardware, software, and infrastructure.

Vehicle Miles Traveled (VMT) – The total number of miles traveled by motor vehicles on a road or highway segment.

APPENDIX B FACT SHEET

Segment 1: PM 0.000 - PM 9.805



This segment begins at US 395 (PM 0.000) and ends 9.805 miles east of US 395 (PM 9.805). The route lies in a rural area of northeastern Mono County and the majority of the surrounding land is publicly owned. It is a two-lane conventional highway traversing winding, mountainous terrain. SR 270 is classified as a Major Collector with a posted speed limit of 55 mph. It is undivided and does not have access control. Services such as food, lodging, and gasoline, are not available along SR 270 or in Bodie.

Projects and Strategies to Achieve Concept					
Description	Location	Source	Purpose	Implementation Phase	
Widen shoulders to four feet (combination of paved and unpaved)	US 395 to 9.805 miles east of US 395	Caltrans District 9	Maintenance and Operations	Long Term	
Widen lanes to twelve feet	US 395 to 9.805 miles east of US 395	Caltrans District 9	Maintenance and Operations	Long Term	
Paved turnouts	Various	Caltrans District 9	Operations	Long Term	
Culvert extensions	Various	Caltrans District 9	Maintenance	Long Term	
Establish a trail system in the Bodie Hills that provides for equestrian, bicycle, and pedestrian use	SR 270 and other locations	Mono County RTP	Multimodal Use	Long Term	
Extend pavement on Bodie Road	From Murphy Springs to cattle guard at edge of Bodie Bowl	Mono County RTP	Maintenance and Operational Enhancement	Long Term	
Scenic turnouts with interpretive displays	Various	Mono County RTP	Transportation Enhancement	Long Term	
Bodie bike route loop	SR 270, Cottonwood Canyon Road, SR 167 and US 395	Mono County RTP	Multimodal Use	Long Term	

Route Designation and Characteristics		
Freeway and Expressway System	No	
National Highway System	No	
Strategic Highway Network	No	
Scenic Highway	No	
Interregional Road System	No	
High Emphasis Route	No	
Focus Route	No	
Federal Functional Classification	Major Collector	
Goods Movement Route	No	
Truck Designation	CA Legal Advisory	
Rural/Urban/Urbanized	Rural	
Regional Transportation Planning Agency	Mono County Local Transportation Commission	
County Transportation Commission	Mono County Local Transportation Commission	
Local Agency	Mono County	
Tribes	Bridgeport Indian Colony	
Air District	Great Basin Unified Air Pollution Control District	
Terrain	Mountainous, Winding	

	Environmental Considerations								
-	Se	s		Air Q	uality		spu	nds cies	
Section 4(f) Land	Cultural Resources	Visual Aesthetics	03)	Particu Matt		xide (CO)	Waters and Wetlands	Special Status Species	
Section	Cultur	Visua	Ozone (O ₃)	2.5	10	Carbon Monoxide (CO)	Waters	Special 9	
Гом	High	High	Unclassifiable/Attainment	Unclassifiable/Attainment	Unclassifiable/ Nonattainment	Unclassifiable/Attainment	High	пот	

System Characteristics		
Facility Type	Conventional	
General Purpose Lanes	2	
Lane Miles	9.805	
Centerline Miles	9.805	
Median Width	0	
Passing Lanes	0	
Truck Climbing Lanes	0	
Distressed Pavement	0%	
Current Right-of-way (ROW)	60 – 100 ft, by prescriptive rights and R.S. 2477	

Bicycle Facility			
Bicycle Access Prohibited	No		
Facility Type	No Bikeway Designation		
Outside Paved Shoulder Width	1–5 ft		
Facility Description	Bicyclists share the road with automotive traffic.		
Posted Speed Limit	55 mph		
Parallel Facility Present	No		

Pedestrian Facility		
Pedestrian Access Prohibited	No	
Sidewalk Present	No	
Crossing Distance	21-40 ft	
Facility Description	Pedestrians use paved and unpaved shoulders of varying widths, and/or the roadway.	

Corridor Performance				
	AADT (BY)	480		
Basic Systems Operations	AADT: Growth Rate/Year	0%		
	LOS Method	HCM		
	LOS (BY)	A		
	LOS Concept	С		
	VMT (BY)	4706		
Truck Traffic	Total Average Annual Daily Truck Traffic (AADTT) (BY)	27		
	Total Trucks (% of AADT) (BY)	5.65%		
	5+ Axle Average Annual Daily Truck Traffic (AADTT)(BY)	0		
Peak Hour Traffic Data	Peak Period Length	1		
	Peak Hour Direction	Е		
	Peak Hour Time of Day	PM		
	Peak Hour Directional Split (BY)	50/50		
	Peak Hour VMT (BY)	647		

APPENDIX C RESOURCES

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Caltrans, District 9, State Route 270 Transportation Concept Report, June 2004

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United States Census Bureau, < http://www.census.gov, > 2012

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