## **SUMMARY**

The Tahoe Transportation District (TTD) is proposing the US 50/South Shore Community Revitalization Project (project), which is designed to improve the Tahoe Basin's transportation network while addressing affordable housing, community revitalization, and mobility needs, and contributing to environmental gains. The project has been contemplated in regional and local planning documents for decades and is one of the region's largest capital improvement projects. As proposed, the project would realign U.S. Highway 50 (US 50), enabling the creation of a pedestrian-oriented, "Main Street" through the middle of the existing tourist core, where the highway is now located. Walking, bicycling, and reliable transit would be attractive and safe transportation options and community gathering places would be available in the tourist core. Commercial core revitalization is intended to increase visitor spending and catalyze, adjacent private construction investment.

The project is not only intended to revitalize the South Shore of Lake Tahoe, but would also help implement the adopted Lake Tahoe Regional Plan and Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS) by enhancing mobility in support of existing and planned projects, including the:

- ▲ Nevada Stateline-to-Stateline Bikeway, a shared-use path system that will ultimately extend the length of the Nevada side of the lake;
- ▲ Harrison Avenue Improvement Project;
- US 50 Water Quality and Bicycle and Pedestrian Improvement Project Ski Run to Trout Creek;
- ▲ Linear Park Multi-Use Trail;
- Van Sickle Bi-State Park;
- transit shelter and service improvements; and

The project is included in the Tahoe Metropolitan Organization (TMPO) 2015 Federal Transportation Improvement Program (FTIP) and the 2017 FTIP list of projects. It is also listed as a fiscally constrained project in the RTP/SCS, adopted in December 2012. "Fiscally constrained" means that the costs of the proposed projects, over the 23-year plan horizon of the RTP, are within the reasonably foreseeable revenues of that period and, therefore, the project is prioritized for implementation. The 2017 Regional Transportation Plan (2017 RTP), which is an update to the 2012 RTP/SCS, and its joint CEQA/TRPA environmental document was approved on April 26, 2017 after the release of the Draft EIR/EIS/EIS for this project. The vision and goals of the 2017 RTP were based on the 2012 RTP. The projects listed in the 2017 RTP are substantially similar to those in the 2012 RTP, and the US 50/South Shore Community Revitalization Project is included in both documents.

TTD, the Tahoe Regional Planning Agency (TRPA), and the Federal Highway Administration (FHWA) are the lead agencies preparing a joint environmental document for the US 50/South Shore Community Revitalization Project. The environmental document is an environmental impact report (EIR) for TTD pursuant to the California Environmental Quality Act (CEQA) (Public Resources Code Section 21000 et seq.) and the State CEQA Guidelines (California Code of Regulations Section 15000 et seq.); an environmental impact statement (EIS) for TRPA pursuant to the Tahoe Regional Planning Compact (Public Law 96-551) and 1980 revision (Compact), Code of Ordinances, and Rules of Procedure; and an environmental impact statement (EIS) for FHWA pursuant to the National Environmental Policy Act (NEPA) (42 U.S. Code [USC] Section 4321-4347), the Council on Environmental Quality (CEQ) Regulations Implementing NEPA (40 Code of Federal

Regulation [CFR] Section 1500-1508), and FHWA Environmental Impact and Related Procedures (23 CFR Section 771). TTD is also the project proponent.

On April 24, 2017, TTD, TRPA, and FHWA distributed a Draft EIR/EIS/EIS to public agencies and the general public for review and comment. The Draft EIR/EIS/EIS evaluated five alternatives, consisting of four action or build alternatives (Alternatives B, C, D, and E) and one no-action alternative (Alternative A). (Note: The discussion under the header "Rationale for Selecting Alternatives Considered in Detail" in Chapter 2, "Proposed Project and Project Alternatives," of this document, summarizes the reasons for selecting the alternatives evaluated in detail in the EIR/EIS/EIS.) Three action alternatives (Alternatives B through D) include realignment of US 50 on the mountain side of the tourist core, pedestrian and bicycle enhancements to improve connectivity and safety, conversion of existing US 50 to a local street, and construction of replacement housing for displaced residents. One action alternative (Alternative E) would construct a raised pedestrian walkway over existing US 50 alignment within the portion of the tourist core between the resort casinos. The realignment alternatives also propose a pedestrian bridge that provides an additional connection between the tourist core and Van Sickle Bi-State Park.

This document is the Final Environmental Impact Report/Environmental Impact Statement/Environmental Impact Statement (Final EIR/EIS/EIS) for the US 50/South Shore Community Revitalization Project (project), In its entirety, the EIR/EIS/EIS consists of the Draft EIR/EIS/EIS (including appendices, published in April 2017) and this final document, which includes public comments and responses to comments (included in Appendix O), and changes in the text of the Draft EIR/EIS/EIS.

This Final EIR/EIS/EIS has been prepared in the condensed format according to the guidance provided by the FHWA Technical Advisory, T 6640.8A. This condensed format approach avoids repetition of material from the Draft EIR/EIS/EIS by incorporating that draft environmental document by reference. This condensed format parallels the organization of the Draft EIR/EIS/EIS. Each major chapter of this Final EIR/EIS/EIS briefly summarizes the important information contained in the corresponding section of the Draft EIR/EIS/EIS and discusses any changes that originated either from responses to comments received on the Draft EIR/EIS/EIS or modifications initiated by TTD, TRPA, or FHWA staff that occurred after circulation of the Draft EIR/EIS/EIS for public review.

All of the text changes made in response to public comments result in minor modifications to the original Draft EIR/EIS/EIS text. None of the changes included in this Final EIR/EIS/EIS resulted in new significant environmental effects or a substantial increase in the severity of any previously identified significant effects; thus, the changes do not warrant recirculation of all or part of the Draft EIR/EIS/EIS for another public review.

## S.1 PROJECT LOCATION AND SETTING

The project is located along US 50 from approximately 0.25 mile west of Pioneer Trail in South Lake Tahoe, California, to Nevada State Route (SR) 207 in Douglas County, Nevada. Existing US 50, also called Lake Tahoe Boulevard, bisects the tourist core areas of Stateline, Nevada and South Lake Tahoe, California. It is one of the most densely developed areas within the Lake Tahoe Basin. Currently, the majority of traffic moving through the tourist core uses US 50, with increasing numbers of vehicles bypassing the highway and cutting through the existing Rocky Point neighborhood on local roads, west of Heavenly Village Center. Within the project site limits, US 50 is a four-lane arterial with a continuous two-way left-turn median lane that transitions to dedicated left-turn pockets at major intersections. On the western side of the project site, Lake Parkway and Montreal Road (which is the continuation of Lake Parkway to the south from Heavenly Village Way) are two-lane roadways (one lane in each direction). Exhibit S-1 shows the boundaries of the project site, which contains the transportation improvements contemplated in one or more of the project alternatives evaluated in this EIR/EIS/EIS.



Exhibit S-1

**Project Site and Study Area Location** 

The study area for this EIR/EIS/EIS (see Exhibit S-1) is a larger area surrounding the project site that is intended to capture the extent of potentially significant environmental impacts that may occur as a result of one or more of the alternatives. It is located between the foot of East Peak on the southeast and the Lake Tahoe shoreline on the north. To the east and west, the study area extends approximately one block beyond the project site boundary. The terrain within the study area slopes gently from the southeast toward the shore of Lake Tahoe. The study area contains the entire tourist core, including the resort-casinos of Stateline and Heavenly Village of South Lake Tahoe; commercial land uses to the east and west along US 50; residential and commercial land uses north of the tourist core; portions of Van Sickle Bi-State Park and adjacent forest; and the Rocky Point neighborhood.

# S.2 PURPOSE, NEED, AND OBJECTIVES

NEPA requires disclosure of a project's purpose and need. CEQA requires a description of the basic objectives of a project. TRPA does not have specific requirements for a project to identify the purpose, need, or objectives of the project. This section provides the information necessary to present the purpose and need and basic project objectives of the proposed US 50/South Shore Community Revitalization Project.

One of TTD's operating principles is to develop value-added projects for the communities in which they work. In addition to implementing transportation improvements within the Tahoe Basin, TTD strives to improve the communities in which it works, considering issues such as local economies, effects on residents, and visitor experience. In May 2016, consistent with TTD principles and in response to public feedback on the project, the TTD Board adopted project principles that formalize their commitment to providing replacement housing, including deed-restricted affordable housing, for displaced residents. This commitment is reflected in the project objectives below.

# **Purpose**

The overall purposes of the US 50/South Shore Community Revitalization Project are described as follows:

- improve the corridor in a manner consistent with the Loop Road System concept;
- advance multi-modal transportation opportunities;
- improve vehicle, pedestrian, and bicycle safety;

- implement regional and local plans, including the Lake Tahoe Regional Plan and the RTP/SCS;
- enhance visitor and community experience;
- promote economic vitality of the area; and
- ▲ improve safety for residents, pedestrians, and bicyclists in local neighborhoods.

### Need

The purposes of the project would fulfill the following specific needs:

A. Loop Road System concept. Article V(2) of the Tahoe Regional Planning Compact (Public Law 96-551), 1980 (Compact), requires a transportation plan for the integrated development of a regional system of transportation within the Tahoe Region. The Compact requires the transportation plan to include consideration of the completion of the Loop Road System in the States of California and Nevada. Improvements are required to the corridor to meet the intent of the Loop Road System concept. (The Loop Road System concept is described in Section 1.2, "Project Background," and Table 1-1 in Chapter 1, "Introduction," of the Draft EIR/EIS/EIS.)

B. Multimodal mobility and safety. Ongoing and proposed redevelopment in the study area and an increase in visitors has amplified regional traffic, creating a need for improved pedestrian safety, mobility, and multimodal transportation options that provide alternative options to the private vehicle. Improvements to pedestrian facilities, bicycle lanes, and transit are needed to connect the outlying residential and retail-commercial uses with employment and entertainment facilities, including hotels, resorts, and gaming interests. Currently, there are no bicycle lanes on US 50 through the project area, and sidewalks are either not large enough to meet the increased demand, or do not exist. These issues adversely affect pedestrian and bicyclist safety and the visitor and community experience of the area. These needs could be addressed through development of a complete street (or "Main Street")—a street designed and operated to enable safe access for all users, including pedestrians, bicyclists, motorists, and transit riders of all ages and abilities—in the main tourist corridor of the Stateline area. Injury and fatality accident rates for pedestrians and vehicles through the project area are 14 percent above the statewide average rates for the latest three-year period of available data (California Department of Transportation [Caltrans] 2016, Nevada Department of Transportation [NDOT] 2016).

The roadways within the study area also have inadequate facilities for pedestrians, bicyclists, and vehicles. The inadequate facilities detract from community character and quality of life of both residents and visitors. The limited transportation facilities and pedestrian/bicycle environment hinder economic redevelopment of the study area (TTD 2013:3). There is a need for enhanced connectivity, transit use, walkability, and bicycle use in the study area to reduce dependence on private automobiles.

C. Environmental quality in the area. Environmental improvements are necessary in the area to help achieve TRPA's adopted environmental threshold carrying capacities (thresholds), including for water quality and air quality. Paved roadways are the primary source of the fine sediment particles that are impairing the clarity of Lake Tahoe (Lahontan Regional Water Quality Control Board [RWQCB] and Nevada Division of Environmental Protection [NDEP] 2010). Improvements to stormwater runoff drainage, collection and treatment facilities are needed to meet TRPA, NDEP, and Lahontan RWQCB regulations and requirements for protecting the water quality and clarity of Lake Tahoe.

As supported by analysis in the Lake Tahoe Regional Transportation Plan and Sustainable Communities Strategy Final Environmental Impact Report/Environmental Impact Statement, reduction of vehicle congestion and numbers of vehicles on the roadway through enhanced pedestrian and multi-modal opportunities and opportunities for compact, mixed-use development in the tourist core is needed to provide for a reduction in mobile-source greenhouse gas emissions (TMPO and TRPA 2012:3-57 – 3-61).

Landscape improvements are needed to enhance the scenic quality of the project site, to facilitate compliance with TRPA's scenic thresholds, and to enhance the community and tourism experience. Currently, the three TRPA roadway travel units in the project site (Roadway Travel Unit #32, Casino Core, a portion of Roadway Travel Unit #33, The Strip, and a small portion of Roadway Travel Unit #45, Pioneer Trail [North]) are not in attainment and are targeted for improvement in the Scenic Quality Improvement Plan and other adopted agency plans that apply to the area (TRPA 2016).

- D. Minimize congestion. Study area intersections and roadway segments are currently operating at marginally acceptable levels during a typical summer PM peak hour (LOS D) (Wood Rodgers 2016:17); however, higher traffic during holidays, special events, and certain summer and winter peak periods results in long vehicle queues at upstream intersections, long delays throughout the tourist core area, undesirable traffic operations, and hinder emergency management operations. The study area is projected to experience substantial increases in traffic congestion in the tourist core in the future that would result in LOS E or worse conditions during normal summer peak hours.
- E. Neighborhood traffic operations. Neighborhood "cut-through" traffic occurs as drivers seek ways to avoid the congestion during peak periods in the summer and winter months. By avoiding the congested highway, drivers find a faster travel route around the tourist core outside peak periods. Traffic volumes at the study area "gateways" have increased approximately 20 percent since 2011, while traffic within the tourist core area has slightly decreased (Caltrans 2016, NDOT 2016, El Dorado County 2016),

indicating that vehicles are using the neighborhood streets to bypass the core. The cut-through vehicles cause congestion in residential neighborhoods and have been observed to travel at high speeds, which endangers local residents and changes the character of the neighborhood. The project is needed to improve safety and operations of local roads through neighborhoods by providing roadway changes that reduce congestion and provide a more efficient travel route in the tourist core area for through traffic.

- F. Regional and local plans. The project is needed to implement adopted regional and local plans for the area, including the Lake Tahoe Regional Plan, Lake Tahoe Regional Transportation Plan/Sustainable Communities Strategy, Lake Tahoe Environmental Improvement Program, Tourist Core Area Plan, and South Shore Area Plan. The transportation improvements and water quality improvements included in the project are identified in these plans.
- G. Redevelopment and revitalization. Another project purpose is to create opportunities for redevelopment and revitalization of the study area. Currently, the study area is more conducive to vehicular travel than other modes, which presents limitations to walkability and bicycle use. Improvements to the existing US 50 through the tourist core to create a safer environment for pedestrian and bicycle travel are needed to make the study area more inviting for residents and visitors to patronize existing businesses. Additionally, a portion of the study area is located within the City of South Lake Tahoe Tourist Core Area Plan (TCAP). One of the guiding principles of the TCAP is to establish a diverse and concentrated mix of uses that create a strong, lively market (City of South Lake Tahoe 2013:4-1), which would help achieve the vision for revitalization of this area.

# **Project Objectives**

Recognizing the needs for and fundamental purposes of the project, it would be intended to achieve the following basic project objectives identified by TTD:

- reduce overall vehicle delays through improved motor vehicle mobility on the state highway system, including for commercial access and a better resident and visitor experience;
- decrease dependence on the use of private automobiles;
- reduce the traffic volumes through the tourist core and "cut-through" traffic in adjacent neighborhoods, and develop a "complete street" for all users, including bicyclists, pedestrians, transit, and vehicles;
- improve connectivity, reliability, travel times, and operations of public transportation modes, including increased mobility and safety for bicycles and pedestrians and enhanced public access to Van Sickle Bi-State Park;
- ▲ comply with TRPA regional level-of-service criteria;
- create gateway and streetscape features that accomplish a sense of place, align with complete streets principles, are reflective of Lake Tahoe's natural setting, and provide effective way-finding;
- provide opportunity for redevelopment and revitalization within the project site:
- provide replacement housing for all residential units acquired for highway right-of-way purposes before groundbreaking for transportation improvements; and
- result in no net loss of housing in the South Shore area.

## S.3 SUMMARY DESCRIPTION OF ALTERNATIVES

Five project alternatives are under consideration for implementation, consisting of four build alternatives (Alternatives B, C, D, and E) and one no-build alternative (Alternative A). Three build alternatives (Alternatives B through D) would realign existing US 50 from a point just west of the Pioneer Trail/US 50 intersection in California to the point where Lake Parkway meets US 50 in Nevada. By doing so, existing US 50 would be converted to a thriving "Main Street," a key objective of the project. In addition to the highway realignment, all of the realignment alternatives (Alternatives B through D) would also include a new pedestrian bridge over realigned US 50 providing a new walking and bicycling connection between the tourist core and Van Sickle Bi-State Park, enhanced bicycle and pedestrian facilities and connectivity, enhanced transit features, environmental improvements, replacement housing and relocation assistance for residents and businesses that would be displaced by realigned highway construction, and the potential for new mixed-use developments within the study area that could accommodate those that would be displaced. One build alternative (Alternative E) would construct a raised pedestrian walkway over existing US 50 alignment within the portion of the tourist core between the resort-casinos, rather than realign the highway.

# Alternative A: No Build (No Project or No Action)

With Alternative A there would be no improvements to existing US 50, Lake Parkway, or other roadways within the study area. No bicycle, pedestrian, or transit improvements would be made. The current road alignment and lane configuration would remain the same.

# **Alternative B: Triangle (Locally Preferred Action)**

Alternative B would construct a realignment of US 50 to the southeast of existing US 50 from just west of the Pioneer Trail intersection in California to Lake Parkway in Nevada. Realigned US 50 would begin at a relocated Pioneer Trail intersection to the west of the existing intersection, and proceed south along existing Moss and Echo Roads. It would then turn east onto the Montreal Road alignment, passing behind (southeast of) the Heavenly Village Center shopping complex, and continuing along the existing Montreal Road and Lake Parkway alignments before ending at a new two-lane roundabout at the existing US 50/Lake Parkway intersection. This EIR/EIS/EIS also contemplates an option that would retain a signalized intersection at US 50/Lake Parkway, instead of a roundabout.



Main Street Concept Illustration

With this Final EIR/EIS/EIS, TTD, TRPA, and FHWA staff have identified Alternative B as the preferred alternative. Alternative B was identified as the locally preferred action by TTD in the Draft EIR/EIS/EIS. The identification of Alternative B as the preferred alternative is based on review of the Draft EIR/EIS/EIS, review of public comments, and discussions among the lead agency staff. Alternative B includes options for a roundabout or a signal at the US 50/Lake Parkway intersection and options for bicycle lanes or a cycle track through the tourist core. There are no substantial differences in environmental impacts between these options because their footprint is within the project site analyzed in the Draft EIR/EIS/EIS.

### BASIS FOR SELECTING ALTERNATIVE B AS THE PREFERRED ALTERNATIVE

As described in Section 4.4, "Environmentally Superior Alternative," of the Draft EIR/EIS/EIS, the environmentally superior alternative would be either Alternative B or D transportation improvements, including replacement housing and the mixed-use development option. Both of these alternatives would result in 11 beneficial impacts from the transportation improvements and six beneficial impacts from the mixed-use development, including replacement housing, chiefly related to traffic conditions along road segments and at intersections that would result from project implementation. Also, these alternatives would result in three significant and unavoidable impacts, one related to community character and cohesion (Impact 3.4-1: Physically divide an established community causing changes to community character and cohesion), one related to aesthetics (Impact 3.7-1: Degradation of scenic quality and visual character), and one related to noise (Impact 3.15-3: Traffic noise exposure at existing receptors). The environmental impact differences between Alternatives B and D are not substantial enough that one is clearly superior over the other.

Key factors favoring Alternative B over Alternative D and leading to the selection of the preferred alternative include the following:

- The Alternative B alignment would use the vacant City of South Lake Tahoe redevelopment parcel located southwest of the commercial properties at the US 50/Pioneer Trail intersection, which would avoid displacement of existing businesses at the corner of US 50 and Pioneer Trail that would occur with Alternative D.
- ▲ The realignment of US 50 for Alternative B allows for better utilization of the mixed-use development sites, which are also the preferred location for replacement housing, within the TCAP (see Exhibit 2-9 in the Draft EIR/EIS/EIS). This allows potential mixed-use development, and the replacement housing, to utilize density bonuses included in the TCAP while also contributing to meeting the redevelopment goals of the TCAP. The location of the mixed-use development sites on both sides of Lake Tahoe Boulevard also offers an opportunity for creating a distinctive gateway to the tourist core. The location of the mixed-use development sites within the TCAP and providing opportunities for redevelopment and gateway development also offer a better location to attract private developers to contribute to a public-private development agreement to maximize the redevelopment potential in this area. A smaller proportion of the mixed-use development sites for Alternative D are within the TCAP compared to Alternative B; thus, Alternative D would not be able to realize the redevelopment potential that would be allowed with implementation of Alternative B (see Exhibit 2-11 in the Draft EIR/EIS/EIS).

### **ROAD NETWORK CHANGES**

The realigned US 50 would have four 11-foot wide travel lanes, 5-foot wide shoulders, and turn pockets at major intersections and driveways. New signalized intersections along the realigned US 50 would be located at Heavenly Village Way and the driveway entrance to Harrah's. The existing right-of-way of the segment of US 50 between Pioneer Trail and Lake Parkway—the new "Main Street"—would be relinquished to the City of South Lake Tahoe in California, and Douglas County in Nevada. Realigned US 50 would become Caltrans and NDOT right-of-way.



Proposed Pedestrian Bridge to Van Sickle Bi-State Park

Between Park Avenue and Lake Parkway, the new "Main Street" would be reduced to one travel lane in each direction, with landscaped medians, and left-turn pockets at major intersections and driveways. Bicycle lanes and sidewalks would be added and/or upgraded throughout the project site. These changes would be characteristic of complete streets features intended to be implemented with the project. A pedestrian bridge would be constructed over realigned US 50 approximately 250 feet south of the proposed new intersection at the Harrah's entrance driveway near the California/Nevada state line; the pedestrian bridge would connect Van Sickle Bi-State Park to the tourist core.

## **RIGHT-OF-WAY ACQUISITION NEEDS**

The Alternative B realignment of US 50 would require the acquisition of right-of-way. The right-of-way needs would include both partial and full acquisition of parcels within the project site; a total of 99 parcels would be affected by Alternative B. Table 2-1 in Chapter 2, "Proposed Project and Project Alternatives," of the Draft EIR/EIS/EIS summarizes the total number of affected parcels, by state. Table 2-2 provides a summary description of the types of uses and number of units affected for those parcels listed as full acquisitions in Table 2-1. A full list of specific parcels affected by Alternative B (and other realignment alternatives) is included in Appendix B of the Draft EIR/EIS/EIS. Appendix B also includes exhibits that distinguish full and partial parcel acquisitions the realignment alternatives.

### MIXED-USE REDEVELOPMENT SITES

Alternative B includes the potential redevelopment of three sites within the project site to include a mix of residential and commercial uses. The purpose of the redevelopment sites would be to provide relocation opportunities at one or more of the mixed-use development sites for dislocated residents and business owners in the immediate vicinity.



Realigned US 50 Near Pedestrian Bridge

### PROJECT REFINEMENTS TO ALTERNATIVE B

Since the initiation of public review of the Draft EIR/EIS/EIS, TTD has continued to refine details of the Alternative B in response to public input, ongoing agency discussions, and continuing concept planning. The refinements, described below, are more specific concept clarifications and improvements that implement general elements of the preferred alternative. They do not change the basic framework or major features of Alternative B that were presented in the Draft EIR/EIS/EIS.

Environmental analysis has been updated in the Final EIR/EIS/EIS as it relates to the Alternative B refinements and has confirmed that environmental conclusions provided in the Draft EIR/EIS/EIS have not changed. The summary presentation of environmental conclusions of all five alternatives has been updated, to reflect the Alternative B refinements to facilitate comparison of environmental consequences of the alternatives at equivalent detail (see the discussion under the header "Summary of Potential Impacts from Project Refinements" and Table S-1 in Section S.5, "Summary of Impacts and Mitigation," at the end of this chapter). Revisions to Table S-1 are presented in underline/strikeout. The refinements may also be added to the other alternatives without necessitating additional environmental review.

The complete environmental document prepared by the lead agencies for the US 50/South Shore Community Revitalization Project consists of the Draft EIR/EIS/EIS, Final EIR/EIS/EIS, and their respective summaries and appendices. Decision-makers will review the complete environmental document. As a result, lead agency decision-makers will consider the environmental analysis and conclusions of all five alternatives, including the proposed project, in equivalent detail when determining their actions.

Since the release of the Draft EIR/EIS/EIS, the following refinements have been made to Alternative B in response to comments received on the draft environmental document and to enhance the project's effectiveness in achieving the project purpose, need, and objectives:

■ TTD has revised its commitment to construct replacement housing and is now proposing to construct 102 deed-restricted low-income housing units and seven deed-restricted moderate-income housing units, increasing the number of multi-family replacement units from 76 to 109 units. The replacement housing (i.e., 76 dwelling units) would be constructed prior to groundbreaking activities for transportation improvements in California. The replacement housing would compensate for the low-income dwelling units (i.e., 58 dwelling units), the moderate income units (i.e., seven dwelling units), and

the number of Single Room Occupancy (SRO) units (i.e., 44 SRO units) that would be displaced by the project. The mixed-use development sites would allow for construction of up to 227 total dwelling units. Additional units beyond the minimum 109 replacement units at the mixed-use development sites would include additional low-income, moderate-income, or market-rate housing. As described in Chapter 2, "Proposed Project and Project Alternatives," of the Draft EIR/EIS/EIS, the acquisition process of properties displaced by the project, including those properties potentially displaced by the mixed-use development, would be conducted in a manner consistent with the requirements of the federal Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, as amended. Furthermore, all relocation services and benefits are administered without regard to race, color, national origin, or sex in compliance with Title VI of the Civil Rights Act (42 USC Section 2000d et seq.).

- TTD has formalized its commitment to construct replacement housing within the project area walkshed, with the preferred location within one of the proposed mixed-use development sites.
- ▲ TTD has worked with Caltrans to refine the design of US 50 near the entrance at Tahoe Meadows such that access to the main entrance would remain similar to existing conditions. The length of the proposed two left-turn lanes on eastbound US 50 at the intersection with Pioneer Trail has been reduced so that the center left-in/left-out lane (i.e., dedicated left-turn lane) that is currently used by vehicles turning left into Tahoe Meadows from US 50 would remain. Additionally, the distance from the gate of Tahoe Meadows to the edge of curb of the reconfigured US 50 would not be shortened more than 3 feet, which would minimize the effect on vehicle queuing at the entrance to Tahoe Meadows and the encroachment on the Linear Park.
- ✓ The Gondola Vista project along the mountain side of Lake Parkway across from the Forest Suites Resort at Heavenly Village (see Exhibit 3.19-1 of the Draft EIR/EIS/EIS) was undergoing permitting with the City of South Lake Tahoe and TRPA at the time of publication of the Draft EIR/EIS/EIS. Based on previous site plans for the Gondola Vista project for which the previous permits had expired, the Draft EIR/EIS/EIS stated that the US 50 realignment would preclude the Gondola Vista project from being constructed as planned (page 3.19-10). Since publication of the Draft EIR/EIS/EIS, the requisite permits from the city and TRPA have been secured by the Gondola Vista property owners with a setback incorporated to accommodate the US 50/South Shore Community Revitalization Project. Construction of the Gondola Vista project commenced in the summer of 2017, with the number of residential units being constructed reduced from the 22 units described in the Draft EIR/EIS/EIS to 20 units.

TTD and its engineers have since coordinated with Caltrans staff on preliminary design plans that demonstrate that the US 50 realignment and the development can be designed to be safe and operationally adequate according to state and city design standards. The design refinements could involve a slightly steeper driveway and additional retaining walls to support the revised driveway design, but would be consistent with Caltrans and city design standards and subject to their design approval subsequent to the environmental review. Access to the Gondola Vista property would be limited to right-in/right-out turns only; left turns to or from the property would be precluded.

- TTD is coordinating a parking agreement to improve parking availability in the state line tourist core area that includes commitments to transit access, access to new public parking, and parking wayfinding signs as part of the project. Implementation of this parking strategy would occur prior to groundbreaking of transportation improvements and would include better circulation to parking and improved wayfinding signage.
- TTD has amended their short-range transit plan to include a transit circulator service in the tourist core near the state line. The transit circulator service would shorten walking distances between surrounding areas and amenities in the tourist core. The transit circulator would be implemented as a phase of the project to coincide at the earliest with opening of the new alignment. The operation plan for the transit circulator would be finalized prior to implementation and would be based on seasonality of visitation demand and other factors pertinent to effective service hours and use. The transit circulator would

provide transit services between the resort-casino parking areas and tourist core businesses and amenities, including Heavenly Village Center.

- ✓ The option to restripe Lake Parkway on the lake side between Stateline Avenue and US 50 as a four-lane roadway described on page 2-23 of the Draft EIR/EIS/EIS has been eliminated from further consideration, because the need for which this option was created can be addressed by setting up temporary cones for directing traffic generated by concerts or special events. This option would also preclude bicycle lanes and shoulders along Lake Parkway in this area. With this option, Lake Parkway would no longer have wide enough shoulders to allow for parking during special events. With implementation of Alternative B, this segment of Lake Parkway would remain a three-lane roadway (one travel lane in each direction with a dedicated left-turn lane).
- ▲ Additional roadway design refinements are anticipated to occur during the standard detailed design development process leading to final design. These design refinements would be within the project site analyzed in the Draft EIR/EIS/EIS and would reduce the size of the realigned intersection of US 50 and Pioneer Trail to lessen the impacts on the surrounding areas. Intersection design refinements could include shortening the lengths of turn lanes, eliminating the eastbound right-turn lane onto Pioneer Trail, eliminating the westbound right-turn lane onto Lake Tahoe Boulevard, eliminating one of the westbound right-turn lanes onto Pioneer Trail, and eliminating one of the through lanes on westbound Pioneer Trail. These design refinements would be reviewed by Caltrans as part of final design approval.
- ▲ TTD has committed to implementing neighborhood design amenities in the Rocky Point neighborhood within the study area that would enhance the community character and safety elements of the neighborhood that remains after realignment of US 50. Such amenities would include a community park and street lighting, and other amenities that are appropriate as design proceeds.

# **Alternative C: Triangle One-Way**

The alignment of Alternative C would be the same as Alternative B for the route along existing Montreal Road and Lake Parkway. However, Alternative C would involve one-way travel within the tourist core and on the realigned highway to the southeast. It would reduce right-of-way needs relative to Alternative B, as described below.

### **ROAD NETWORK CHANGES**

Alternative C would split eastbound and westbound directions on US 50 from the Park Avenue/Heavenly Village/US 50 intersection in California to Lake Parkway/US 50 intersection in Nevada. Eastbound US 50 would remain on the same alignment as the existing highway, while westbound US 50 would be realigned along Lake Parkway southeast of existing US 50. Both eastbound and westbound US 50 would have turn pockets at major intersections and driveways, and would add and/or upgrade bicycle lanes and sidewalks.

Travel lanes along the eastbound and westbound segments would be 11-feet wide. New signalized intersections would be located on westbound US 50 at Heavenly Village Way and Harrah's driveway off existing Lake Parkway. Caltrans and NDOT would be required to accept the right-of-way along both segments of US 50 for those portions in their respective state, and the City of South Lake Tahoe and Douglas County would need to relinquish the right-of-way along Lake Parkway, Montreal Road, and other local roadways affected by Alternative C. A pedestrian bridge, similar to Alternative B, would be constructed over westbound US 50 near the California/Nevada state line connecting the Van Sickle Bi-State Park to the Stateline area.

## **RIGHT-OF-WAY ACQUISITION NEEDS**

The Alternative C realignment of US 50 would slightly reduce the right-of-way acquisition needs relative to Alternative B. The right-of-way needs would include both partial and full acquisition of parcels within the project site; a total of 97 parcels would be affected by Alternative C.

#### MIXED-USE REDEVELOPMENT SITES

Alternative C includes the redevelopment of the same three sites within the project site as Alternative B for the purpose of providing relocation opportunities to the dislocated residents and business owners.

# Alternative D: Project Study Report Alternative 2

Alternative D is similar to Alternative B in that it would realign US 50 to the southeast of existing US 50 from the Pioneer Trail intersection in California to Lake Parkway in Nevada. The relocated US 50/Pioneer Trail intersection would be further north than the Alternative B alignment.

### **ROAD NETWORK CHANGES**

The realignment of US 50 associated with Alternative D would begin at a reconstructed Pioneer Trail intersection, and proceed east on a realigned highway segment between existing Echo Road and Fern Road. It would then turn north onto the Montreal Road alignment, passing behind the Heavenly Village Center shopping complex, and continuing along the existing Montreal Road and Lake Parkway alignments before ending at a new two-lane roundabout at the existing US 50/Lake Parkway intersection. The EIR/EIS/EIS also contemplates an option that would retain a signalized intersection at US 50/Lake Parkway, instead of a roundabout.

Realigned US 50 would have four 11-foot wide travel lanes, 5-foot wide shoulders, and turn pockets at major intersections and driveways. New signalized intersections would be located at US 50/Heavenly Village Way and the driveway entrance to Harrah's from US 50. The existing segment of US 50 between Pioneer Trail and Lake Parkway would be relinquished to the City of South Lake Tahoe in California and to Douglas County in Nevada. Realigned US 50 would become Caltrans and NDOT right-of-way.

Between Park Avenue and Lake Parkway, the existing US 50 would be reduced to one lane in each direction, with landscaped medians and left-turn pockets at major intersections and driveways, similar to Alternative B. Bicycle lanes and sidewalks would be added and/or upgraded throughout the project site. A pedestrian bridge would be constructed over realigned US 50 near the California/Nevada State Line connecting the Van Sickle Bi-State Park to the Stateline area.

## **RIGHT-OF-WAY ACQUISITION NEEDS**

The Alternative D realignment of US 50 would require the acquisition of right-of-way. The right-of-way needs would include both partial and full acquisition of parcels within the project site; a total of 78 parcels would be affected by Alternative D.

### MIXED-USE REDEVELOPMENT SITES

Like Alternative B, Alternative D includes the redevelopment of three sites within the project site to include a mix of residential and commercial uses that could be relocation opportunities for dislocated residents and business owners.

# Alternative E: Skywalk

Alternative E would feature a concrete deck over the entire width and length of existing US 50 within the tourist core between a location about 100 feet south of Stateline Avenue and a location near the northern end of the Montbleu Resort (about 450 feet south of Lake Parkway). The deck would serve as a pedestrian "skywalk" facility or pedestrian walkway between the resort-casinos. The width would be approximately

75 feet. The skywalk would be constructed on 4-feet wide columns spaced approximately 20 feet on center running along both sides of the highway for the entire length of the bridge. The purpose of the skywalk would be to enhance pedestrian facilities and separate pedestrians from the highway through the tourist core near the resort-casinos to allow for improved traffic flow. Alternative E would avoid the need to acquire property and displace uses and people in the existing community.

### **ROAD NETWORK CHANGES**

The configuration of US 50 would remain as it is today, except that the signal and at-grade pedestrian scramble between Hard Rock and Montbleu would be removed.

The improvements on Stateline Avenue would be the same as that which would occur for Alternative B (see Section 2.4.2, "Alternative B: Triangle (Locally Preferred Action)," of the Draft EIR/EIS/EIS).



Alternative E: Skywalk

## **RIGHT-OF-WAY ACQUISITION NEEDS**

Alternative E would be constructed entirely within the existing US 50 right-of-way and would not require any property acquisitions. Alternative E would not displace any residents or businesses.

### MIXED-USE REDEVELOPMENT SITES

Alternative E does not include the potential future redevelopment sites associated with Alternatives B through D. Because Alternative E would not displace any residents or businesses, it would not be necessary to provide replacement housing or commercial space as part of this alternative.

## S.4 ISSUES SUBJECT TO PUBLIC CONTROVERSY

The State CEQA Guidelines require an EIR to include a list of areas of potential controversy and issues to be resolved.

Based on public input received during the scoping process, through circulation of the Draft EIR/EIS/EIS, and other outreach that occurred in support of the project, areas of controversy could include the purpose and need for the project; the project cost; displacement of existing residents and businesses in the City of South Lake Tahoe; impacts on Van Sickle Bi-State Park and the Tahoe Meadows residential community; noise impacts in residential neighborhoods; and project effects on natural areas along Lake Parkway, water quality, air quality, vehicle miles of travel (VMT), and public safety. The impact of the newly constructed Gondola Vista project along Lake Parkway and adjacent to the location of the realigned highway has also been the subject of public inquiry.

Additional project details requested by commenters and an assessment of suggested alternatives to the project are included in Chapter 2, "Proposed Project and Project Alternatives," of the Draft EIR/EIS/EIS. Appendix A of the Draft EIR/EIS/EIS includes a complete list of comments received during the scoping period. Appendix O of this Final EIR/EIS/EIS includes a complete list of comments (and responses to those comments) received during circulation of the Draft EIR/EIS/EIS.

The following are key issues related to the project:

#### ▲ Acquiring Project Funding

TTD has funding to complete the environmental review process and full design (preliminary through final) of the approved alternative. TTD also has some right-of-way funds for property acquisition and relocation, which have been secured through State Transportation Block Grant (CA and NV) and Congestion Mitigation and Air Quality (CMAQ) grants. Funding for the remaining property acquisition, relocation, and project construction would come from a variety of federal, state, and local sources, including Federal Transportation Act funds incorporated into recently passed legislation, Greenhouse Gas Reduction Fund from revenues of the Cap-and-Trade program administered by the California Air Resources Board, and newly adopted taxes from Douglas County, among others.

## ▲ Community Impacts

- Impacts on Rocky Point Residents and Adjacent Businesses: The project's impact on the Rocky Point neighborhood and adjacent businesses has been one of the primary concerns of the public and decision-makers. The realignment alternatives would displace between 68 and 76 residential units and four to seven businesses to accommodate the realignment, depending on the specific alternative. The neighborhood affected by the project has a higher proportion of population that is below the poverty level and are minorities, compared to the general populations of the city, county, and Stateline Census-Designated Place (CDP). As a result, an environmental justice concern arises, because low-income and minority populations would disproportionately experience adverse environmental and displacement effects of the project. TTD has committed to constructing replacement housing (i.e., 76 dwelling units) and relocation assistance to affected persons prior to initiating construction of the transportation improvements in California. In spite of the project's benefits, other measures included in the project to minimize adverse effects, and additional planning efforts to identify alternatives that would eliminate or reduce impacts, the preliminary determination from FHWA is that the project would still have a disproportionately high and adverse effect on minority and low-income populations in the Rocky Point neighborhood.
- ✓ Division of the Existing Rocky Point Neighborhood: With implementation of the realignment alternatives, US 50 would be rerouted through an established neighborhood, which is characterized as having moderate community cohesion due to the presence of a concentrated minority population and transit-dependent population. The highway realignment and physical division of the neighborhood would change the character and cohesiveness of the neighborhood by displacing residents and substantially changing the visual character and ambient noise environment. The realigned US 50 would create a physical barrier restricting pedestrian access across the new highway alignment, although vehicular connectivity through the neighborhood would be maintained. Increased trip lengths for pedestrians and bicyclists in this neighborhood would need to maneuver around the realigned highway. The division would be offset to a degree by the enhanced bicycle and pedestrian features (e.g., sidewalks and bicycle lanes) along the realigned highway and through the tourist core. These three alternatives (Alternatives B, C, and D) would physically divide residents within the Rocky Point neighborhood from each other, and for those residents southwest of the realigned highway, from the adjacent commercial and tourist core area. Minimizing the community division impact is a key issue for consideration during preparation of the final design plans.
- Access to the Tahoe Meadows residential community: The realignment alternatives would affect access at the Tahoe Meadows main entrance. As discussed under the header "Project Refinements to Alternative B" in Section S.3, "Summary Description of Alternatives," above, TTD has worked with representatives of Tahoe Meadows on several occasions to address their concerns and revisit design details. The refined drawings resulting from those discussions and consultation with Caltrans minimize impacts on the Tahoe Meadows entrance, retain the left-in/left-out turn option for Lake Road to and from US 50, and minimize impacts on the Linear Park, as discussed above. The refinements would apply to all of the realignment alternatives. A master response (Master

Response 2: Effects on Access to Tahoe Meadows Historic District) included in Appendix O of this Final EIR/EIS/EIS comprehensively responds to these access concerns.

### 

- Providing Access to Van Sickle Bi-State Park and Maintaining the Visual Connection to Tourist Core: Providing enhanced access to Van Sickle Bi-State Park is one of TTD's basic project objectives. The realignment alternatives (Alternatives B through D) would encroach into the park, requiring acquisition of about 0.5 acres of park land. TTD has consulted with the California Tahoe Conservancy and the Nevada Division of State Lands, the managers of the park, on measures to compensate for this encroachment. Each of the realignment alternatives would provide a new, grade-separated pedestrian and bicycle bridge over the realigned US 50 from the tourist core to Van Sickle Bi-state Park near the state line. This would become a new gateway to the park for visitors from the tourist core. These alternatives also include improved signage, context-sensitive design treatments for highway retaining walls and the proposed pedestrian bridge, paths and trails for bicycles and pedestrians, and two signalized at-grade crosswalks at existing park access points (the crossing near the entrance to Harrah's has no traffic control, and the existing Heavenly Village Way/Lake Parkway intersection is stop sign controlled). These improvements would better connect Van Sickle Bi-State Park to the tourist core and would make access safer and easier for pedestrians and bicyclists, and would enhance long-term access to the park.
- Extending the Linear Park Shared-Use Path through the Tourist Core: The realignment alternatives would involve intersection and roadway construction along US 50 immediately adjacent to the Linear Park Multi-Use Trail on the west side of the project site. Construction of the new US 50/Pioneer Trail intersection and transportation improvements would require acquisition of 0.03 acre of the landscaped area, would reduce the width of the Linear Park in certain locations, and would realign a section of the Linear Park Multi-Use Trail. These alternatives would also include installation of a split rail barrier fence to separate the Linear Park from US 50 in certain locations where the path would be closest to the highway and would not meet minimum separation distances. The proposed transportation improvements and barrier fence would not decrease long-term access to the Linear Park and would retain the width of the existing 8-foot path. The realignment alternatives also provide the opportunities for the Linear Park Multi-Use Trail to be extended through the tourist core to the future segment of the Nevada Stateline-to-Stateline Bikeway alignment beginning at the corner of Lake Parkway and US 50. The fence adjacent to the Tahoe Meadows Historic District would be retained in its current location.

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- Avoiding Utility Conflicts: The transportation improvements related to the build alternatives and development of the mixed-use sites could result in conflicts with existing utility infrastructure and require relocation of utilities or access points to utility infrastructure (i.e., water, sewer, electrical, and natural gas services). TTD has coordinated with utility providers (i.e., South Tahoe Public Utility District, Douglas County Sewer Improvement District, Edgewood Water Company, Lakeside Park Association, Liberty Utilities, NV Energy, and Southwest Gas Corporation) throughout the preliminary design phase and in preparation of this EIR/EIS/EIS and would continue to do so through the final design plans and construction. Any relocation of affected utility infrastructure would be coordinated with utility providers.
- Providing Adequate Snow Removal and Storage: TTD would be required to provide for adequate snow removal and storage, as required by Douglas County, the City of South Lake Tahoe, TRPA, Caltrans, and NDOT. Melt water from snow storage areas carries concentrated amounts of nutrients, fine sediments, salt, sand pollutants from vehicles such as petroleum hydrocarbons, oil, or heavy metals and materials from road and tire wear. Some of the parcels acquired through the right-of-way acquisition would be used for the purposes of snow storage. All potential snow storage locations would be designed to drain to best management practice (BMP) water quality treatment facilities

capable of handling large sediment loads. In accordance with TRPA Code Section 60.1.4, all snow storage areas would meet the site criteria and management standards in the TRPA Handbook of Best Management Practices. In addition, snow storage areas may not be located within stream environment zones (SEZs). The location of snow storage areas would be shown on all final design plans and a snow removal plan would be included with the improvement plan submittal.

#### ■ Multi-Modal Improvements

Enhanced Transit, and Pedestrian and Bicycle Facilities: The realignment alternatives would include a variety of bicycle and pedestrian infrastructure improvements that would enhance connectivity in the study area. These improvements would include improved and expanded sidewalks (new sidewalks would be constructed along the realigned US 50 between Pioneer Trail and Heavenly Village Way, as well as on the mountain side of US 50 between Lake Parkway and SR 207), enhanced bicycle facilities (either new bicycle lanes or a Class IV, or Cycle Track, through the tourist core connecting the Linear Park Multi-Use Trail to the Nevada Stateline-to-Stateline Bikeway). The enhancements would also include improved transit service, as well as the construction of new bus shelters through the tourist core. One of TTD's basic project objectives includes improving connectivity, reliability, travel times, and operations of public transportation modes, including increased mobility and safety for bicycles and pedestrians and enhanced public access to Van Sickle Bi-State Park via the new pedestrian bridge.

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▼ Visual Effect of a Sound Barrier: Realignment of US 50 would redirect the majority of traffic through residential areas, exposing sensitive receptors to substantial increases in noise levels. A sound barrier (e.g., wood, brick adobe, and earthen berm, boulders, or combination thereof) is the most effective option to reduce noise exposure in these areas. However, although all feasible design treatments (e.g., landscaped berm to reduce visible mass and landscape screening) would be included to minimize visual effects on the Rocky Point



Illustration of Sound Barrier along Realigned US 50

neighborhood, the introduction of the highway and sound barrier into the neighborhood's visual setting could be problematic. A sound barrier or other noise treatment would ensure the TRPA's noise thresholds are not violated. TTD would need to carefully consider context-sensitive design solutions in the final design plans to minimize these effects.

### ■ Water Quality Enhancements

Program: Through coordination with stakeholders and a review of the strengths and weaknesses of the existing stormwater management systems within the study area, the project design team identified several measures that would enhance the ability of existing systems to protect water quality, and would create water quality benefits through the capture of currently untreated stormwater runoff. The enhancements to the stormwater system would be designed to more than offset increases in impervious surfaces resulting from the realignment alternatives, so they would implement water quality improvements above and beyond those contemplated in the Lake Tahoe Environmental Improvement Program.

### ■ VMT Effects

▼ The travel route along US 50 with the realignment alternatives would be 0.4 mile longer around the tourist core than the current US 50 alignment straight through it. This increase in travel length would

cause a small localized increase in VMT; however, the project's mobility enhancements and revitalization of planned development in an urban center would be consistent with attaining the regional total VMT threshold (as required by the Lake Tahoe Regional Plan and evaluated in the Regional Plan Update EIS). A master response (Master Response 1: Adequacy of VMT Analysis) included in Appendix O of this Final EIR/EIS/EIS comprehensively responds to concerns related to project effects on VMT.

# S.5 SUMMARY OF IMPACTS AND MITIGATION

As discussed above, the US 50/South Shore Community Revitalization Project is a joint project proposed by TTD, TRPA, and FHWA, and is subject to state and federal environmental review requirements. Project documentation, therefore, has been prepared in compliance with CEQA; TRPA's Tahoe Regional Planning Compact, Code of Ordinances, and Rules of Procedure; and NEPA. TTD and TRPA have determined that an EIR and an EIS, respectively, would provide the appropriate level of environmental analysis. Impacts described in this document were found to be potentially adverse under NEPA, requiring preparation of an EIS.

Chapter 3, "Affected Environment, Environmental Consequences, and Avoidance, Minimization, and/or Mitigation Measures," of the Draft EIR/EIS/EIS describes in detail the environmental effects that would result from implementation of the project alternatives. Impacts are determined to be: 1) no impact; 2) not adverse, for the purposes of NEPA, or less than significant, for the purposes of CEQA and TRPA; 3) adverse, for the purposes of NEPA, or significant or potentially significant, for the purposes of CEQA and TRPA (potentially adverse changes in the environment, for which mitigation measures are required); and 4) adverse, for the purposes of NEPA, or significant and unavoidable, for the purposes of CEQA and TRPA (adverse changes in the environment that cannot be feasibly reduced to less-than-significant levels with mitigation measures). Where appropriate, for the purposes of CEQA and TRPA, beneficial impacts associated with the project alternatives are also noted.

Table S-1 (at the end of this chapter) summarizes the potential environmental effects that would result from implementation of the build alternatives; describes avoidance, minimization, or mitigation measures to address adverse and significant and potentially significant environmental effects; and identifies the significance of impacts both before and after mitigation.

The Draft EIR/EIS/EIS also included analysis of other issues that includes environmental justice (see pages 3.4-56 – 3.4-65 of the Draft EIR/EIS/EIS), cumulative impacts (see pages 3.19-1 – 3.19-39 of the Draft EIR/EIS/EIS), and growth-inducing effects (see pages 4-4 – 4-5 of the Draft EIR/EIS/EIS). Environmental justice effects are a particularly concern of the project. After consideration of benefits of the project, revisions to the project, additional alternatives, mitigation measures, and project refinements that have been made since release of the Draft EIR/EIS/EIS, the analysis concluded that the project would have a disproportionately high and adverse effect on minority and low-income populations in the Rocky Point neighborhood (see pages 3.6-63 – 3.6-65 of the Draft EIR/EIS/EIS).

# Summary of Potential Impacts from Project Refinements to Alternative B

The project refinements, described under the header "Project Refinements to Alternative B," in Section S.3, "Summary Description of Alternatives," above, are more specific concept clarifications and improvements that implement general elements of Alternative B and do not change the basic framework or major features of Alternative B that were presented in the Draft EIR/EIS/EIS. For example, the increase in number of replacement housing units from 76 to 109 units that TTD has committed to is within the maximum number of 227 dwelling units analyzed for the mixed-use development sites in the Draft EIR/EIS/EIS.

The project refinements have resulted in maintaining the existing access to Tahoe Meadows and retaining the center left-in/left-out lane at US 50 and Lake Road, which would result in no new impacts to access to

Tahoe Meadows. Similarly, the changes to the Gondola Vista driveway entrance onto realigned US 50 would occur on the Gondola Vista project site. Because the driveway design would need to meet applicable state and city design standards and be constrained to right-in/right-out turns only, and the 20-unit development would not generate substantial traffic, the addition of a driveway at this location would not result in a new traffic safety impact.

Improvements to parking availability with a public-private agreement between TTD and the casinos would not result in the construction of new parking, but instead would create more visibility of these existing resources through promoting parking availability in the tourist core area.

The transit circulator would result in additional transit service within the tourist core with service levels based on seasonality of visitation demand and other factors pertinent to effective service hours and use, which would not result in a substantial increase in impacts related to traffic, air quality, or greenhouse gas emissions. By increasing transit service as part of the project, the transit circulator would result in a beneficial impact on transit in the project site.

Roadway design refinements are intended to reduce the footprint of roadway improvements to lessen any potential adverse environmental impacts. Neighborhood design amenities, such as a park, would include minimal facilities, would comply with local land use requirements, and would be anticipated to occur within the footprint of ground disturbance in the study area resulting in similar impacts as described for ground disturbance associated with constructing the roadway improvements, with the exception that a park would reduce impervious surfaces. Other amenities, such as adding street lights, would be required to comply with the City of South Lake Tahoe lighting standards pertaining to fixed sources of lighting that would limit spillover illumination. These additional neighborhood design amenities would enhance community character, resulting in positive changes that currently do not exist in this neighborhood. However, these amenities would not change the nature of the impact of realigning a highway through an established neighborhood as discussed in Impact 3.4-1 beginning on page 3.4-17 of the Draft EIR/EIS/EIS.

For these reasons, the project refinements described above do not provide substantial new information or introduce new project elements, nor do they result in new environmental impacts, increased severity of environmental impacts, or new mitigation measures.

Table S-1, below, represents an updated version of Table S-1, "Summary of Resource Topics with Impacts and Avoidance, Minimization, and/or Mitigation Measures," provided in the Draft EIR/EIS/EIS. Revisions to Table S-1 that resulted from the above-described project refinements, coordination with lead agencies, comments received, or corrections are presented in underline/strikethrough in Table S-1. There were no changes that resulted in any new significant or adverse impacts.

Resource Topics/Impacts	Environmental Conseque Impact Determinations (( before Mitigation (by A	CEQA, TRPA)	Avoidance, Minimization, and/or Mitigation Measures		Environmental Consequences (NEPA)/ Impact Determinations (CEQA, TRPA) after Mitigation (by Alternative)		
	NEPA	CEQA/TRPA			NEPA	CEQA/TRPA	
Adv = Adverse B = Beneficial LTS = Less than significant MU =	e B = Beneficial LTS = Less than significant MU = mixed-use NA = Not applicable NAdv = Not adverse NI = No impact PS = Potentially significant S = Significant SU = Significant and unav						
3.2 Land Use							
Implementation of Alternatives B, C, and D transportation improvements and mixed-use development, including replacement housing, would have the potential to conflict with certain policies in relevant planning documents (see Appendix E	The design features of Alternatives A, B, C, D, and E would avoid or minimize conflicts with implementing land use plans and policies such that no additional mitigation measures are needed or feasible to implement.	Alts A, B, C, D, E = LTS	required to reduce impact mitigation measures are r	needed or feasible to implement or to a less-than-significant level	NA	Alts A, B, C, D, E = LTS	

Resource Topics/Impacts	Environmental Consequer Impact Determinations (C before Mitigation (by Al	CEQA, TRPA)	Avoidance, Minimization, and/or Mitigation Measures	Environmental Conseque Impact Determinations ( after Mitigation (by A	(CEQA, TRPA)
	NEPA	CEQA/TRPA		NEPA	CEQA/TRPA
Adv = Adverse B = Beneficial LTS = Less than significant MU =	mixed-use NA = Not applica	ble NAdv = Not	adverse NI = No impact PS = Potentially significant S =	Significant SU = Significant a	and unavoidable
Impact 3.2-2: Include uses that are not listed as permissible uses in the applicable PASs, community plans, and area plans or expand or intensify an existing non-conforming use  Alternative A would be a continuation of existing conditions, and as such Alternative A does not include uses that are not permissible, nor would it expand or intensify an existing non-conforming use. The transportation improvements proposed for Alternatives B, C, and D, including the realigned US 50, pedestrian overcrossing, and pedestrian and bicycle improvements, meet TRPA's definition of a transportation route. The raised pedestrian walkway proposed with Alternative E also meets this definition. These project features are identified as either allowable or special uses in applicable planning documents. Because existing regulations preclude the development of prohibited uses, and require that findings for any special uses be made before project approval, Alternatives B, C, and D transportation improvements and mixed-use development including replacement housing, and Alternative E would not include uses that are not permissible, nor would they expand or intensify an existing non-conforming use.	Alt A = NI The design features of Alternatives B, C, D, and E would avoid or minimize the potential to include uses that are not permissible or expand or intensify an existing non- conforming use such that no additional mitigation measures are needed or feasible to implement.	Alts B, C, D, E = LTS Alt A = NI	No avoidance, minimization, or mitigation measures are required to reduce impacts such that no additional mitigation measures are needed or feasible to implement for the purposes of NEPA or to a less-than-significant level for the purposes of CEQA and TRPA.		Alts B, C, D, E = LTS Alt A = NI
3.3 Parks and Recreational Facilities					
Impact 3.3-1: Temporary disruption of public access to public lands and recreation areas  During the construction period, Alternatives B, C, and D transportation improvements and mixed-use development including replacement housing would result in temporary disruption of public access to recreation areas and public lands (i.e., Van Sickle Bi-State Park, the Linear Park, and Edgewood Tahoe Golf Course) as a result of construction activities that could occur along US 50, Lake Parkway, and Montreal Road. Because the Linear Park is within the limits of mixed-use development Site 1 for Alternatives B and C, future	Alt A = NI Mitigation Measure 3.3-1 has been incorporated into Alternatives B, C, D, and E to further reduce to the extent feasible temporary disruption of public access to public lands and recreation areas. No Impact for Alternative A.	Alt A = NI Alts B, C, D, E = S	Mitigation Measure 3.3-1: Provide detours and maintain access to recreation facilities and public lands during construction  The following mitigation applies to transportation improvements and mixed-use development including replacement housing included in Alternatives B, C, and D, and Alternative E for the purposes of NEPA, CEQA, and TRPA.  The project proponent shall ensure that the Transportation Management Plan (TMP) prepared for the project addresses all modes of transportation used to	Alt A = NI Alts B, C, D, E = NAdv	Alt A = NI Alts B, C, D, E = LTS

Resource To	opics/Impacts	Impact	nental Consequence Determinations (C Mitigation (by Alt	EQA, TRPA)	Avoidance, Minimization	, and/or Mitigation Measures	Impact	Environmental Consequences (NEPA)/ Impact Determinations (CEQA, TRPA) after Mitigation (by Alternative)	
			NEPA	CEQA/TRPA				NEPA	CEQA/TRPA
Adv = Adverse B = Beneficial	LTS = Less than significant MU = n	mixed-use	NA = Not applicab	le NAdv = Not	adverse NI = No impact	PS = Potentially significant S = S	ignificant	SU = Significant a	nd unavoidable
Edgewood Tahoe Golf Course	y. Alternative E would result in edestrian and vehicle access to associated with the option to ake side of US 50. Alternative A				and bicycle modes. To mit access to recreation resoudetour plans that meet, at specifications:  1. During construction of Trail intersection, the plane Park may be rein the construction are bicycle and pedestrian temporary trail/path ovehicle traffic by a phy Signage will be provide Park, at the intersection US 50, and approaching trail users about the tiany construction-related.  2. During construction of Village Way intersection eastward along the reather pedestrian bridge vehicle, pedestrian, ar Bi-State Park shall be detours and traffic corbe provided along road approaching the constareas and trailheads valert pedestrians, bicy	is the relocated US 50/Pioneer pedestrian and bike trail within quired to be temporarily closed para. If this closure is required, all a traffic shall be detoured to a an the highway, separated from sical barrier such as "K-Rail." ed at the western end of Linear on of Wildwood Avenue and ang the construction zone to alert ming, duration, and nature of ped closures and detours. If the new US 50/Heavenly on, roadway improvements aligned US 50 alignment, and over the new US 50 ROW, and bicycle access to Van Sickle maintained through the use of antrol for all modes. Signage will			

Table S-1 Summary of Resource Topics with Impacts and Avoidance, Minimization, and/or Mitigation Measures Environmental Consequences (NEPA)/ Environmental Consequences (NEPA)/ Impact Determinations (CEQA, TRPA) Impact Determinations (CEQA, TRPA) Resource Topics/Impacts Avoidance, Minimization, and/or Mitigation Measures before Mitigation (by Alternative) after Mitigation (by Alternative) NEPA NEPA CEQA/TRPA CEQA/TRPA LTS = Less than significant MU = mixed-use NA = Not applicable NAdv = Not adverse PS = Potentially significant S = Significant SU = Significant and unavoidable Adv = Adverse B = Beneficial NI = No impact 3. During the restriping of Lake Parkway, vehicular access to Edgewood Tahoe Golf Course shall be maintained by the use of detours and traffic control. Measures will be taken to keep the public informed of the project construction activities. When closures and/or detours are required, warning signs and signs regarding restricted access and detours will be posted to ensure adequate public safety. Detour routes will be clearly marked, and construction fencing or physical barriers will be installed to prevent access to the construction site and to clearly delineate the detour route. Full closure of trails or recreation facilities by the contractor(s) will be prohibited from July 1 through Labor Day weekend unless an approved detour has been established. All bicycle and pedestrian detours will be identified in the TMP and will be reviewed and approved by the project proponent, Caltrans, and TRPA before the start of earth-moving activities. Impact 3.3-2: Long-term change in public access to public Alts A. E = NI Alts A. E = NI No avoidance, minimization, or mitigation measures are NA Alts A. E = NI lands and recreation areas The design features of Alts B. C. required to reduce impacts such that no additional Alts B. C. Alternatives B, C, and D transportation improvements and Alternatives B. C. and D. D = Bmitigation measures are needed or feasible to implement D = Bmixed-use development including replacement housing would would avoid or minimize for the purposes of NEPA or to a less-than-significant level include improvements that facilitate enhanced access from the long-term changes in public for the purposes of CEQA and TRPA. tourist core by creating an improved setting for walking and access to public lands and bicycling throughout the core area. Alternatives B, C, and D recreation areas such that would increase public access to Van Sickle Bi-State Park no additional mitigation and/or Linear Park as a result of the pedestrian/bicycle bridge measures are needed or over realigned US 50 that would increase connectivity for feasible to implement. visitors to the tourist core. Alternatives B. C. D. and E would not result in a long-term decrease in public access to Edgewood Tahoe Golf Course, because of the option to restripe Lake Parkway west of existing US 50, which would occur within the existing road footprint.

Table S-1 Summary of Resource Topics with Impacts and Avoidance, Minimization, and/or Mitigation Measures

Resource Topics/Impacts	Environmental Consequer Impact Determinations (C before Mitigation (by A	CEQA, TRPA)	Avoidance, Minimization, and/or Mitigation Measures		Environmental Consequences (NEPA)/ Impact Determinations (CEQA, TRPA) after Mitigation (by Alternative)		
	NEPA	CEQA/TRPA			N	IEPA	CEQA/TRPA
Adv = Adverse B = Beneficial LTS = Less than significant MU =	mixed-use NA = Not applica	ble NAdv = Not	adverse NI = No impact	PS = Potentially significant S = S	ignificant S	SU = Significant a	nd unavoidable
Impact 3.3-3: Increased demand for or physical deterioration of recreation facilities  To offset displacement of low- and moderate-income housing units acquired to accommodate project construction, Alternatives B, C, and D propose to construct replacement housing as part of mixed-use development at one or more of three locationssites within the South Lake Tahoe portion of the project site. If the number of housing units that are constructed is equivalent to those displaced, there would be no net increase in demand for recreation facilities, physical deterioration of the study area recreation facilities would not increase, and additional recreation resources would not be required.  However, the mixed-use development at Sites 1, 2, and 3 as conceptualized in Alternatives B, C, and D could include construction of additional housing units above and beyond those necessary to replace units displaced by the project. Alternative B could result in a net increase of 139 housing units, Alternative C an additional 144 housing units, and Alternative D an additional 132 housing units. Because the type of higher density development and recreation demand associated with the mixeduse development including replacement housing has already been contemplated in the land use assumptions included in the TCAP environmental review and Regional Plan, Alternatives B, C, and D would not substantively increase demand for recreation facilities, increase physical deterioration, or require additional recreation resources.  Alternatives A and E would not include mixed-use development and the Alternatives B, C, and D transportation improvements would not result in an increase in demand for recreation facilities, physical deterioration of the study area recreation facilities would not increase, and additional recreation resources would not be required.	Alts A, E = NI The design features of Alternatives B, C, and D would avoid or minimize the recreation demand environmental consequences such that no additional mitigation measures are needed or feasible to implement.	Alts B, C, D = LTS Alts A, E = NI	required to reduce impact mitigation measures are	needed or feasible to implement or to a less-than-significant level		NA	Alts B, C, D = LTS Alts A, E = NI

Table S-1 Summary of Resource Topics with Impacts and Avoidance, Minimization, and/or Mitigation Measures Environmental Consequences (NEPA)/ Environmental Consequences (NEPA)/ Impact Determinations (CEQA, TRPA) Impact Determinations (CEQA, TRPA) Resource Topics/Impacts Avoidance, Minimization, and/or Mitigation Measures before Mitigation (by Alternative) after Mitigation (by Alternative) NEPA NEPA CEQA/TRPA CEQA/TRPA LTS = Less than significant MU = mixed-use SU = Significant and unavoidable Adv = Adverse B = Beneficial NA = Not applicable NAdv = Not adverse NI = No impact PS = Potentially significant S = Significant Impact 3.3-4: Changes to the quality of recreation user Alt A = NIAlts A, E = NI NA Alts A, E = NI No avoidance, minimization, or mitigation measures are experience The design features of Alts B, C, D = required to reduce impacts such that no additional Alts B, C, D = Alternatives B, C, D, and LTS LTS mitigation measures are needed or feasible to implement Because Alternatives A and E would not include any Alternative E would avoid or for the purposes of NEPA or to a less-than-significant level infrastructure improvements in the vicinity of Lake Tahoe. for the purposes of CEQA and TRPA. minimize the change in the public lands and/or recreation areas, Alternatives A and E quality of recreation user would not affect the recreation user experience in the study experience environmental area. consequences such that no The effects of Alternatives B, C, and D transportation additional mitigation improvements on the quality of recreation user experience at measures are needed or the Linear Park and Edgewood Companies mountain parcel feasible to implement. would not be substantial because recreation user experience at these facilities is currently influenced by similar vehicle traffic on adjacent US 50 and Lake Parkway and the user experience would be similar to existing conditions. The mixeduse development including replacement housing proposed for Alternatives B, C, and D would be located adjacent to or near the Linear Park; however, these alternatives would not result in a substantial change in the quality of recreation user experience at this recreation facility, because the Linear Park is currently adjacent to existing US 50 and the user experience would be similar to existing conditions. Alternatives B, C, and D transportation improvements would increase traffic and traffic noise levels in some areas of Van Sickle Bi-State Park; however, noise level changes at these locations would not be discernible by users at the park facilities (also discussed in Impact 3.15-3). These alternatives would use design solutions that reflect the local character, is appropriate for the site, and is compatible with the surrounding environment in the changes at the main entrance to the park, the pedestrian overcrossing into the park, and the retaining wall along the mountain side of existing Lake Parkway. For these reasons, and taking into account the park setting in

proximity to an urban area, Alternatives B, C, and D

Resource Topics/Impacts	Environmental Consequer Impact Determinations (C before Mitigation (by Al	EQA, TRPA)	Avoidance, Minimization, and/or Mitigation Measures	Environmental Consequences (NEPA)/ Impact Determinations (CEQA, TRPA) after Mitigation (by Alternative)		
	NEPA CEQA/TRPA			NEPA	CEQA/TRPA	
Adv = Adverse B = Beneficial LTS = Less than significant MU = r	mixed-use NA = Not applica	ole NAdv = Not	adverse NI = No impact PS = Potentially significant S = S	ignificant SU = Significant a	nd unavoidable	
transportation improvements would not substantially diminish recreation user experience.						
Recognizing the influence of the combination of both detractions and enhancements to recreation resource site conditions (i.e., adverse for forest use, beneficial for access and amenities) and reasonably anticipating that user expectations take into account the setting, nearby urban area, and existing use patterns, the effect of the project's infrastructure improvements would have little effect on the quality of recreation user experiences in the study area.						
3.4 Community Impacts						
causing changes to community character and cohesion  With implementation of Alternatives B, C, and D transportation improvements, US 50 would be rerouted through an established neighborhood (generally known as Rocky Point), which is characterized as having moderate community cohesion due to the presence of a concentrated minority copulation and transit-dependent population. The highway realignment and physical division of the neighborhood would change the character and cohesiveness of the neighborhood by displacing residents and substantially changing the visual character and ambient noise environment (see Sections 3.7,	Alts A, E = NI Mitigation Measure 3.4-1 has been incorporated into Alternatives B, C, and D to further reduce to the extent feasible the environmental consequences related to physical division of an established community and associated adverse changes in the character and cohesiveness of a residential neighborhood.	Alts A, E = NI Alts B, C, D = S	Mitigation Measure 3.4-1: Minimize effects on the character and cohesiveness of the Rocky Point Neighborhood  The following mitigation measure applies to Alternatives B, C, and D transportation improvements for the purposes of NEPA, CEQA, and TRPA.  With respect to changes in visual conditions and noise that affect the character and cohesiveness of the Rocky Point neighborhood, implement Mitigation Measure 3.7-1a (see Section 3.7, "Visual Resources/Aesthetics") and Mitigation Measures 3.15-3a, 3.15-3b, and 3.15-3c (see Section 3.15, "Noise and Vibration").	Alts A, E = NI Additional mitigation measures have been incorporated into Alternatives B, C, and D to further reduce to the extent feasible the environmental consequences related to physical division of an established community and associated adverse changes in the character and cohesiveness of a residential neighborhood.	Alts A, E = NI Alts B, C, D = SU	

three alternatives would physically divide residences within the

Table S-1 Summary of Resource Topics with Impacts and Avoidance, Minimization, and/or Mitigation Measures

Resource Topics/Impacts	Impact [	Environmental Consequences (NEPA)/ Impact Determinations (CEQA, TRPA) before Mitigation (by Alternative)  Avoidance, Minimization, and/or Mitigation		n, and/or Mitigation Measures	Impact	Environmental Consequences (NEPA)/ Impact Determinations (CEQA, TRPA) after Mitigation (by Alternative)			
		NEPA	CEQA/TRPA					NEPA	CEQA/TRPA
Adv = Adverse B = Beneficial LTS = Less than significant MU =	mixed-use	NA = Not applicab	e NAdv = Not	adverse	NI = No impact	PS = Potentially significant S = S	Significant	SU = Significant a	nd unavoidable
Rocky Point neighborhood from each other, and for those residents southwest of the realigned highway from the adjacent commercial and tourist core area. Residents and businesses would be displaced by right-of-way acquisition. (Note: displacement is discussed further in Impact 3.4-4.) Considering these impact influences together, the physical division of an established community caused by the Alternatives B, C, and D realignment of US 50 would result in adverse changes in the character and cohesiveness of a residential neighborhood.  The mixed-use development sites associated with Alternatives B, C, and D mixed-use development, including replacement housing, are the preferred locations for construction of replacement housing for residents displaced by the project. Implementation of Alternatives B, C, and D mixed-use development, including replacement housing, would include new buildings that are consistent in character to other existing, newer development, would replace hotel units with housing units and commercial uses that would contribute to a stronger sense of community, and would not physically divide an established neighborhood. For these reasons, these alternatives with mixed-use development, including replacement housing, would not result in any adverse changes in the character and cohesiveness of a residential neighborhood beyond those associated with the Alternatives B, C, and D.  Because Alternative A would include no changes and Alternative E would not include project components located within an established neighborhood community, these alternatives would not adversely affect community character or cohesion or disrupt or divide an established community.									

Table S-1	Summary of Resource Topics with Impacts and Avoidance, Minimization, and/or Mitigation Measures
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Resource Topics/Impacts	Environmental Consequer Impact Determinations (( before Mitigation (by A	CEQA, TRPA)	Avoidance, Minimization, and/or Mitigation Measures	Environmental Consequences (NEPA)/ Impact Determinations (CEQA, TRPA) after Mitigation (by Alternative)		
	NEPA	CEQA/TRPA		NEPA	CEQA/TRPA	
Adv = Adverse B = Beneficial LTS = Less than significant MU =	mixed-use NA = Not applica	ble NAdv = Not	adverse NI = No impact PS = Potentially significant S = S	ignificant SU = S	Significant and unavoidable	
Impact 3.4-2: Alter the location, distribution, or growth of the human population for the Region during construction  Alternatives B, C, and D transportation improvements would generate a temporary increase in employment in the South Shore of Lake Tahoe of approximately 80 construction jobs during construction of the transportation improvements. The maximum number of construction employees on-site at one time would be approximately 30 employees during the most intensive construction phase of the transportation improvements. For construction of the mixed-use development, including replacement housing, for Alternatives B, C, and D, these alternatives would generate approximately 90 construction jobs during the most intensive construction phase and would generate approximately 175 construction employees if two of the mixed-use development sites are constructed simultaneously. Construction of Alternative E would generate a temporary increase in employment of approximately 45 construction jobs with the maximum number of employees on-site at one time would be approximately 15 construction employees. The number of existing construction personnel in the study area and surrounding areas would be sufficient to meet demand associated with the build alternatives; therefore, this temporary increase in employment is not expected to generate substantial temporary population growth or generate the need for additional housing for construction workers. Therefore, Alternatives B, C, D, and E would not alter the location, distribution, or growth of the human population planned for the Region.  Alternative A would not result in any new construction and, thus, would not increase demand for construction workers or result in an associated increase in housing demand during construction. Alternative A would not induce substantial population growth or housing demand in the Region during construction.	Alt A = NI The design features of Alternatives B, C, D, and E would avoid or minimize effects related to alteration of the location, distribution, or growth of the population during construction.	Alt A = NI Alts B, C, D, E = LTS	No avoidance, minimization, or mitigation measures are required to reduce impacts such that no additional mitigation measures are needed or feasible to implement for the purposes of NEPA or to a less-than-significant level for the purposes of CEQA and TRPA.	NA	Alt A = NI Alts B, C, D, E = LTS	

Table S-1 Summary of Resource Topics with Impacts and Avoidance, Minimization, and/or Mitigation Measures

Resource Topics/Impacts	Environmental Consequer Impact Determinations (C before Mitigation (by A	CEQA, TRPA)	Avoidance, Minimization, and/or Mitigation Measures		Environmental Consequences (NEPA)/ Impact Determinations (CEQA, TRPA) after Mitigation (by Alternative)		
	NEPA	CEQA/TRPA				NEPA	CEQA/TRPA
Adv = Adverse B = Beneficial LTS = Less than significant MU =	mixed-use NA = Not applica	ble NAdv = Not	adverse NI = No impact	PS = Potentially significant S = S	Significant	SU = Significant a	nd unavoidable
Impact 3.4-3: Alter the location, distribution, or growth of the human population for the Region during operation  Alternatives B, C, and D transportation improvements and Alternative E could result in additional road and facility maintenance needs during operation but would not generate demand for a substantial number of new employees. The transportation improvements do not include components that would increase population and, thus, would not generate additional demand for housing. Alternatives B, C, and D transportation improvements and Alternative E would not alter the location, distribution, or growth of the human population planned for the Region.  Alternatives B, C, and D mixed-use development, including replacement housing, would result in the same needs for additional road and facility maintenance needs described for these alternatives transportation improvements. With development of new commercial and housing units associated with buildout of the mixed-use development, including replacement housing, Alternatives B, C, and D would generate an estimated net-increase of up to approximately 180-80 - 210280 new jobs and an estimated net population increase of approximately 320 - 340 people (after accounting for replacement of housing and employment displaced by the project). The additional demand for employees would likely be met by existing residents in the South Shore area. Furthermore, the employment and population growth generated by the mixed-use development, including commercial and residential uses, has been planned for as part of the Regional Plan and the Tourist Core Area Plan. Because employment needs generated by the project could be met by existing residents and the project would include new housing, buildout of the mixed-use development would not generate new employment that would induce substantial population growth such that	Alt A = NI The design features of Alternatives B, C, D, and E would avoid or minimize effects related to alteration of the location, distribution, or growth of the population during operation.	Alt A = NI Alts B, C, D, E = LTS	required to reduce impact mitigation measures are n	needed or feasible to implement or to a less-than-significant level		NA	Alts B, C, D, E = LTS

Table S-1 Summary of Resource Topics with Impacts and Avoidance, Minimization, and/or Mitigation Measures

Resource Topics/Impacts	Environmental Consequer Impact Determinations (C before Mitigation (by Al	EQA, TRPA)	Avoidance, Minimizatio	on, and/or Mitigation Measures	Environmental Consequences (NEPA)/ Impact Determinations (CEQA, TRPA) after Mitigation (by Alternative)		
	NEPA	CEQA/TRPA			NEPA	CEQA/TRPA	
Adv = Adverse B = Beneficial LTS = Less than significant MU =	mixed-use NA = Not applica	ble NAdv = Not	adverse NI = No impact	PS = Potentially significant S = S	Significant SU = Significant a	and unavoidable	
additional housing would be required to be constructed. Future development at any of the three mixed-use development sites would be subject to subsequent project-level environmental review and permitting by the City of South Lake Tahoe and/or TRPA that would include mitigating any adverse physical effects on the environment associated with a jobs and housing imbalance. Thus, Alternatives B, C, and D mixed-use development, including replacement housing, would not alter the location, distribution, or growth of the human population planned for the Region.  Alternative A would not result in any changes to existing conditions that would increase housing demand. Alternative A would not alter the location, distribution, or growth of the human population planned for the Region.							
Impact 3.4-4: Housing supply availability, including affordable housing  Acquisition of land and buildings necessary for the US 50 realignment, new US 50/Pioneer Trail intersection, new sidewalks and bike lanes, and the mixed-use development, including replacement housing, would displace existing residences with the Alternative B, C, and D transportation improvements and mixed-use development, including replacement housing. TTD would provide relocation assistance to all eligible displaced owner and tenant residents in accordance with the requirements of the Uniform Act and the Relocation Assistance Law. These alternatives would also include construction of replacement housing, including deed-restricted affordable and deed-restricted moderate-income housing, equal to or greater than the number of housing units displaced prior to relocating owner and tenant residents and prior to construction of transportation improvements in California. For these reasons, the Alternative B, C, and D	Alts A, E = NI Compliance with the Uniform Act and Relocation Assistance Law and the design features of Alternatives B, C, and D would avoid or minimize effects on housing supply availability, including affordable housing, such that no additional mitigation measures are needed or feasible to implement.	Alts A, E = NI Alts B, C, D = LTS	required to reduce impact mitigation measures are	ion, or mitigation measures are ets such that no additional needed or feasible to implement a or to a less-than-significant level a and TRPA.	NA	Alts A, E = NI Alts B, C, D = LTS	

Table S-1 Summary of Resource Topics with Impacts and Avoidance, Minimization, and/or Mitigation Measures

Resource Topics/Impacts	Environmental Consequen Impact Determinations (C before Mitigation (by Al	EQA, TRPA)	Avoidance, Minimization, and/or Mitigation Measures		Environmental Consequences (NEPA)/ Impact Determinations (CEQA, TRPA) after Mitigation (by Alternative)	
	NEPA	CEQA/TRPA			NEPA	CEQA/TRPA
Adv = Adverse B = Beneficial LTS = Less than significant MU	= mixed-use NA = Not applical	ole NAdv = Not	adverse NI = No impact P	PS = Potentially significant S = S	ignificant SU = Significant a	nd unavoidable
transportation improvements and mixed-use development, including replacement housing, would result in no net loss of housing, including affordable and moderate-income-housing, in the South Shore and there would be no need to construct additional affordable housing elsewhere beyond those included in the project.						
Alternative A would include no changes and Alternative E would not require acquisition of private property and, thus, would not displace housing (including affordable housing) or residents.						
Impact 3.4-5: Displacement of businesses  Alternatives B, C, and D, transportation improvements and mixed-use development, including replacement housing, would require full acquisition of parcels containing businesses.  Alternatives B and C transportation improvements would affect four businesses (14 employees), and mixed-use development, including replacement housing, would affect 10 additional businesses (78 additional employees). Alternative D transportation improvements would affect seven businesses (57 employees), and the mixed-use development, including replacement housing, would affect three additional businesses (21 additional employees). TTD would provide relocation assistance to all eligible displaced businesses in accordance with the requirements of the Uniform Act and the Relocation Assistance Law. The Relocation Study (TTD 20122014) indicated that there would be a sufficient supply of existing business relocation properties in the South Shore area. Therefore, implementation of Alternatives B, C, and D, transportation improvements or mixed-use development, including replacement housing, would not require construction of new buildings for relocation of displaced businesses.  Alternatives B, C, and D mixed-use development, including replacement housing, could include construction of new	Alts A, E = NI Compliance with the Uniform Act and Relocation Assistance Law and the design features of Alternatives B, C, and D would avoid or minimize effects related to displacement of businesses such that no additional mitigation measures are needed or feasible to implement.	Alts A, E = NI Alts B, C, D = LTS	No avoidance, minimization, required to reduce impacts si mitigation measures are need for the purposes of NEPA or to for the purposes of CEQA and	such that no additional eded or feasible to implement to a less-than-significant level	NA	Alts A, E = NI Alts B, C, D = LTS

Resource Topics/Impacts	Environmental Consequences (NEPA)/ Impact Determinations (CEQA, TRPA) before Mitigation (by Alternative)		Avoidance, Minimization, and/or Mitigation Measures	Environmental Consequences (NEPA)/ Impact Determinations (CEQA, TRPA) after Mitigation (by Alternative)	
	NEPA	CEQA/TRPA		NEPA	CEQA/TRPA
Adv = Adverse B = Beneficial LTS = Less than significant MU =	mixed-use NA = Not applica	able NAdv = Not	adverse NI = No impact PS = Potentially significant S = S	Significant SU = Significant a	and unavoidable
commercial space, which could provide additional locations for the displaced businesses to relocate.					
Alternative A would include no changes and Alternative E would not require acquisition of private property and, thus, would not displace businesses.					
3.5 Public Services and Utilities					
Impact 3.5-1: Conflicts with existing utility infrastructure Transportation improvements and construction of mixed-use development, including replacement housing, for Alternatives B, C, and D could result in conflicts with existing utility infrastructure and require relocation of utilities or access points to utility infrastructure (i.e., water, sewer, electrical, and natural gas services). Depending on the alternative, utility infrastructure that could be affected by the build alternatives is generally located at and around the existing US 50/Pioneer Trail and Pioneer Trail/Echo Road intersections and along existing US 50, Fern Road, Moss Road, Montreal Road, and the lake side of Lake Parkway. TTD would be required to coordinate with utility providers to address the project's conflicts with utility infrastructure. However, the extent to which existing utility infrastructure could be adversely affected, and plans for relocation, have not yet been determined, and plans for any necessary relocation have not yet been determined.	Alt A = NI Mitigation Measure 3.5-1 has been incorporated into Alternatives B, C, D, and E to further reduce to the extent feasible the environmental consequences related to conflicts with existing utility infrastructure.	Alt A = NI Alts B, C, D, E = PS	Mitigation Measure 3.5-1: Prepare and implement a Utility Relocation PlanStudy  This mitigation measure is required for Alternatives B, C, and D transportation improvements and mixed-use development, including replacement housing, and Alternative E, for the purposes of NEPA, CEQA, and TRPA.  Before the start of construction-related activities, including demolition of displaced residential, hotel/motel, and commercial buildings, the TTD (and the project proponent for the mixed-use development, as applicable) shall coordinate with the South Tahoe Public Utility District (STPUD), Douglas County Sewer Improvement District (DCSID), Edgewood Water Company (EWC), Lakeside Park Association, Liberty Utilities, NV Energy, and Southwest Gas Corporation to relocate utility infrastructure, which is dependent on the alternative and could include infrastructure at and near the existing US 50/Pioneer Trail and Pioneer Trail/Echo Road intersections and along US 50, Fern Road, Moss Road, Primrose Road, Montreal Road, and the lake side of Lake Parkway. The final design plans for the transportation improvements submitted to Caltrans and NDOT shall be prepared to minimize utility disruption or relocation, and identify all utility relocations affected by the transportation improvements. TTD (and the project proponent for the mixed-use development, as applicable) shall coordinate with the utility companies to	Alt A = NI Alts B, C, D, E = No additional mitigation measures would be needed or are feasible to implement.	Alt A = NI Alts B, C, D, E = LTS

Resource Topics/Impacts		Impact	nental Consequen Determinations (C e Mitigation (by Alt	EQA, TRPA)	Avoidance, Minimization, and/or Mitigation Measures		Environmental Consequences (NEPA)/ Impact Determinations (CEQA, TRPA) after Mitigation (by Alternative)		
			NEPA CEQA/TRPA				NEPA		CEQA/TRPA
Adv = Adverse B =	= Beneficial LTS = Less than significant	MU = mixed-use	NA = Not applicab	ole NAdv = Not	adverse NI = No impact	PS = Potentially significant S = S	Significant	SU = Significant ar	nd unavoidable
					minimize disruption to utili utility lines shall occur after demolition within the study of the realigned US 50 and improvements. Actions ner mitigation measure including affected utility company to that would, at a minimum,  plans that identify the elements, including accus as result of constructin improvements and mi including replacement safety measures to ave hazards or environment capping and abandon such as natural gas lir timing for completion relocation as part of contransportation improve development, including shall be scheduled to utility companies and reparations, if required necessary additional encessary additional encessary additional encessary and required completed, as necessions.	eded to comply with this e coordination with each prepare a utility relocation plan include the following: utility infrastructure coess for utility providers and able, that require relocation as g the project transportation ked-use development, housing; oid any human health intal hazards associated with ing some utility infrastructure, hes or sewer lines; of the utility infrastructure construction of the ements and mixed-use g replacement housing, which minimize disruption to the their customers; d, and certification of environmental evaluations and e.g., CEQA, NEPA, and/or TRPA ements), all of which shall be ary, before final plans for the int, including replacement d;			

Table S-1 Summary of Resource Topics with Impacts and Avoidance, Minimization, and/or Mitigation Measures

Resource Topics/Impacts	Environmental Consequen Impact Determinations (C before Mitigation (by Al	EQA, TRPA)	Avoidance, Minimization, and/or Mitigation Measures	Environmental Consequences (NEPA)/ Impact Determinations (CEQA, TRPA) after Mitigation (by Alternative)		
	NEPA	CEQA/TRPA		NEPA	CEQA/TRPA	
Adv = Adverse B = Beneficial LTS = Less than significant MU =	mixed-use NA = Not applical	ole NAdv = Not	adverse NI = No impact PS = Potentially significant S =	Significant SU = Significant a	nd unavoidable	
			■ approval as adequate by the affected utility companies and Caltrans, NDOT, TTD, and TRPA, as necessary.			
Impact 3.5-2: Increased demand for water supply Alternatives B, C, and D transportation improvements would generate water demand for dust suppression during construction that would be met by water trucks as necessary. Implementation of Alternatives B, C, and D mixed-use development, including replacement housing, would require water supplies for operation of residential and commercial uses and for fire suppression. Water demand associated with the mixed-use development, including replacement housing, would require additional water supplies; however, projected demand under each alternative would be substantially less than available supplies. Alternative E would generate water demand for dust suppression during construction, which would be met by water trucks as necessary.	Alt A = NI The design features of Alternatives B, C, D, and E would avoid or minimize water demand environmental consequences such that no additional mitigation measures are needed or feasible to implement.	Alt A = NI Alts B, C, D, E = LTS	No avoidance, minimization, or mitigation measures are required to reduce impacts such that no additional mitigation measures are needed or feasible to implement for the purposes of NEPA or to a less-than-significant level for the purposes of CEQA and TRPA.		Alt A = NI Alts B, C, D, E = LTS	
Impact 3.5-3: Increased demand for wastewater collection, conveyance, and treatment  Alternatives B, C, and D transportation improvements and Alternative E would not result in an increased demand on wastewater collection, conveyance, and treatment because construction workers would use portable toilets rather than public wastewater facilities.  Construction of mixed-use development, including replacement housing, for Alternatives B, C, and D would require additional wastewater collection, conveyance, and treatment to serve the additional residential and commercial development. Adequate capacity is available in the wastewater treatment plant to serve the wastewater flows generated by the mixed-use development, including replacement housing. However, the addition of wastewater flows from the mixed-use development	Alts A, E = NI Mitigation Measure 3.5-3 has been incorporated into Alternatives B, C, and D to further reduce to the extent feasible the environmental consequences related to demand for wastewater collection, conveyance, and treatment		Mitigation Measure 3.5-3: Ensure sufficient capacity in the STPUD wastewater collection and conveyance system. This mitigation measure is required for Alternatives B, C, and D mixed-use development, including replacement housing, for the purposes of NEPA, CEQA, and TRPA.  Prior to completion of project-level environmental review for the mixed-use development, including replacement housing, the project applicant shall coordinate with STPUI to determine the wastewater conveyance demand for a detailed project design, including the number of housing units and square footage of commercial floor area. If STPUD finds that the project-generated peak wastewater flows cause the STPUD line between sanitary sewer manhole (SSMH) BJ182 and SSMH BJ181 to surcharge, then STPUD and the project applicant shall develop plans	additional mitigation measures would be needed or are feasible to implement.	Alts A, E = NI Alts B, C, D = LTS	

Table S-1 Summary of Resource Topics with Impacts and Avoidance, Minimization, and/or Mitigation Measures

Resource Topics/Impacts	Impact D	Environmental Consequences (NEPA)/ Impact Determinations (CEQA, TRPA) before Mitigation (by Alternative)			Avoidance, Minimization, and/or Mitigation Measures		Environmental Consequences (NEPA)/ Impact Determinations (CEQA, TRPA) after Mitigation (by Alternative)		
		NEPA CEQA/TRPA						NEPA	CEQA/TRPA
Adv = Adverse B = Beneficial LTS = Less than significant	MU = mixed-use	NA = Not applicabl	e NAdv = Not	adverse	NI = No impact	PS = Potentially significant S = S	Significant	SU = Significant a	nd unavoidable
would exceed the capacity of one segment of pipe in the wastewater collection and conveyance system near the McDonald's on Lake Tahoe Boulevard and contribute flow another segment of pipe on Lakeshore Boulevard south of Park Avenue that is already over capacity.  Because no project activity would be implemented with Alternative A, there would be no change in demand for wastewater collection, conveyance, and treatment.				conveyan applicant improvem use devel to meet p SSMH BJ: and Lake Boulevard improvem available Replacem occupand If STPUD flows con SSMH BJ: either development wastewat would be improven The project STPUD that and converserve the housing, a system has system has system has system in the project system has system in the project system has system has system has system in the project system has system in the project system has system has system has system in the project system has system in the project s	ce of buildout w shall be respon- nents that would lopment. The im leak wet weathe 182 and SSMH Tahoe Vacation d. The plans sha nents, and that t when needed by nent of this sewe by of the mixed-u finds that proje tribute to an ex 25, then STPUE velop plans for a d allow for the of ter flows. Alterna required to pay nents at SSMH at indicates their eyance infrastruc mixed-use devel and that any nec ave been comple	ements that would allow for restewater flows. The project sible for covering the cost of a be needed to serve the mixed-provements shall be constructed or flows in the sewer line between BJ181, located near McDonald's Resort on Lake Tahoe all identify the timing of the che capacity of the line will be ythe mixed-use development. Or line shall be completed prior to use development. Or line shall be completed prior to use development. Or line shall be completed prior to use development.  The shall be completed prior to use development and the project applicant shall and construct improvements conveyance of buildout actively, the project applicant or their fair share towards BJ25.  I provide a will-serve letter from the wastewater treatment collection course and provements to the eted prior to the issuance of the City of South Lake Tahoe.			
Impact 3.5-4: Increased generation of solid waste Under the build alternatives, waste generated during land clearing, grubbing, scraping, excavation, land leveling, gra cut and fill, and demolition activities would require dispos	ding, Alternatives	features of B, C, D, and E d or minimize	Alt A = NI Alts B, C, D, E = LTS	required t	to reduce impac	on, or mitigation measures are its such that no additional needed or feasible to implement		NA	Alt A = NI Alts B, C, D, E = LTS

Table S-1 Summary of Resource Topics with Impacts and Avoidance, Minimization, and/or Mitigation Measures

Resource Topics/Impacts	Environmental Consequences (NEPA)/ Impact Determinations (CEQA, TRPA) before Mitigation (by Alternative)		Avoidance, Minimization, and/or Mitigation Measures		Environmental Consequences (NEPA)/ Impact Determinations (CEQA, TRPA) after Mitigation (by Alternative)		
	NEPA	CEQA/TRPA	EQA/TRPA		NEPA	CEQA/TRPA	
Adv = Adverse B = Beneficial LTS = Less than significant MU =	mixed-use NA = Not applica	ble NAdv = Not	adverse NI = No impact	PS = Potentially significant S = S	Significant SU = Signif	icant and unavoidable	
Under Alternatives B, C, and D mixed-use development, including replacement housing, scenarios, solid waste generation would increase over the long term as a result of new housing units and commercial units. However, the Lockwood Regional Landfill presently has a capacity of approximately 280 million cubic yards. Waste generated as part of the project would not represent a substantial proportion of remaining capacity at the landfill. Additionally, Alternatives B, C, D, and E would implement a Construction Waste Management plan and divert a minimum of 65 percent of construction and demolition waste from the landfill.	solid waste demand environmental consequences such that no additional mitigation measures are needed or feasible to implement.		for the purposes of NEPA for the purposes of CEQA	or to a less-than-significant level and TRPA.			
Impact 3.5-5: Inefficient and wasteful consumption of energy The energy used for project construction would not require substantial additional power generation capacity or substantially increase peak or base-period demand for electricity and other forms of energy. New housing units associated with Alternatives B, C, and D mixed-use development, including replacement housing, would be required to meet Title 24 standards for energy efficiency. The mixed-use development sites would be concentrated within walking distance of retail, restaurants, and services. In addition, vehicle trips generated by the project would not be considered inefficient, wasteful, or unnecessary in comparison to other similar developments in the Region.	Alt A = NI The design features of Alternatives B, C, D, and E would avoid or minimize the environmental consequences related to inefficient or wasteful consumption of energy.	Alt A = NI Alts B, C, D, E = LTS	required to reduce impact mitigation measures are r	needed or feasible to implement or to a less-than-significant level	NA	Alt A = NI Alts B, C, D, E = LTS	
Impact 3.5-6: Increased demand for law enforcement and fire and emergency services  Multiple local, state, and federal agencies provide police, fire, and emergency services to the study area throughout high and low tourist seasons. Because Alternatives B, C, and D transportation improvements would not result in an increased population, there would be no increase in demand for police, fire, or emergency services. With Alternatives B, C, and D	Alts A, E = NI The design features of Alternatives B, C, and D would avoid or minimize environmental consequences related to demand for law enforcement, fire, and	Alts A, B, C, D, E = NI	required to reduce impact mitigation measures are r	needed or feasible to implement or to a less-than-significant level	NA	Alts A, B, C, D, E = NI	

Table S-1 Summary of Resource Topics with Impacts and Avoidance, Minimization, and/or Mitigation Measures Environmental Consequences (NEPA)/ Environmental Consequences (NEPA)/ Impact Determinations (CEQA, TRPA) Impact Determinations (CEQA, TRPA) Resource Topics/Impacts Avoidance, Minimization, and/or Mitigation Measures before Mitigation (by Alternative) after Mitigation (by Alternative) NEPA NEPA CEQA/TRPA CEQA/TRPA NI = No impact PS = Potentially significant S = Significant SU = Significant and unavoidable Adv = Adverse B = Beneficial LTS = Less than significant MU = mixed-use NA = Not applicable NAdv = Not adverse emergency services such mixed-use development, including replacement housing, population increases would not be substantial enough to that no additional require additional police, fire, or emergency services. Demand mitigation measures are for law enforcement, fire, and emergency services would not needed or feasible to increase with Alternatives A and E. implement. Impact 3.5-7: Increased demand for public schools Alts A. E = NI Alts A. B. C. D. No avoidance, minimization, or mitigation measures are NA Alts A. B. C. Implementation of Alternatives B, C, and D transportation The design features of E = NIrequired to reduce impacts such that no additional D. E = NI Alternatives B. C. and D mitigation measures are needed or feasible to implement improvements would result in a decrease in population due to the removal of housing units. This is likely to reduce the would avoid or minimize for the purposes of NEPA or to a less-than-significant level number of students in the study area and would not require the | the environmental for the purposes of CEOA and TRPA. construction of additional public schools. With Alternatives B, C, consequences related to and D mixed-use development, including replacement housing, demand for schools. the number of additional students would be minimal compared to the total student population of the school district and typical fluctuation in enrollment at nearby public schools. Schools would not be affected with Alternative A and E. 3.6 Traffic and Transportation Impact 3.6-1: Impacts on intersection operations related to the Alts A. E = NI Alts A. B. C. D. No avoidance, minimization, or mitigation measures are NA Alts A. B. C. redevelopment at any one of the mixed-use development sites The design features of E = NIrequired to reduce impacts such that no additional D.E = NIto accommodate replacement housing (Before Opening Day) Alternatives B. C. and D mitigation measures are needed or feasible to implement Redevelopment at any one of the mixed-use development sites would avoid or minimize for the purposes of NEPA or to a less-than-significant level to accommodate displaced residents would not affect the impacts on intersection for the purposes of CEQA and TRPA. intersection operations on the existing roadway network. For operations such that no Alternatives B, C, and D, TTD would construct replacement additional mitigation housing and relocate residents before initiating construction of measures are needed or the transportation improvements in California. This analysis feasible to implement. focuses on Site 3, because redevelopment of Site 1 before the transportation improvements is not feasible given its location on existing US 50, and Site 2 is located at the edge of the existing Rocky Point neighborhood and would displace businesses that generate similar traffic volumes where the

impact on existing intersection operations is expected to be

Table S-1 Summary of Resource Topics with Impacts and Avoidance, Minimization, and/or Mitigation Measures

Resource Topics/Impacts	Environmental Consequer Impact Determinations (C before Mitigation (by Al	EQA, TRPA)	Avoidance, Minimization, and/or Mitigation Measures	Environmental Consequences (NEPA)/ Impact Determinations (CEQA, TRPA) after Mitigation (by Alternative)		
	NEPA	CEQA/TRPA		NEPA	CEQA/TRPA	
Adv = Adverse B = Beneficial LTS = Less than significant MU =	mixed-use NA = Not applica	ble NAdv = Not	adverse NI = No impact PS = Potentially significant S =	Significant SU = Significant a	and unavoidable	
minimal. The Site 3 redevelopment potential would be the same under all three alternatives. Modeled intersections operations would remain at acceptable levels for Alternatives B, C, and D. Alternatives A and E would not displace residents and would not include any residential displacement or redevelopment. Intersection operations under Alternatives A and E would remain unchanged.						
Impact 3.6-2 Impacts of transportation improvements on intersection operations – 2020 (Opening Day)  The US 50/South Shore Community Revitalization Project would not generate additional 2020 (opening day) vehicle trips that could affect intersection operations; rather, it would implement improvements to existing transportation infrastructure and change circulation patterns within the study area. For Alternatives B, C, and D, US 50 would be realigned to connect to and approximately follow the existing Lake Parkway East alignment. Under Alternatives A and E, the existing US 50 roadway alignment would remain the same as existing conditions. Under Alternative E, level of service (LOS) intersection operations would remain at acceptable levels in 2020 and LOS at the intersection of Old US 50/Stateline Avenue would improve substantially. Under Alternatives B and D, LOS would improve at several intersections compared to existing conditions. All intersections would operate at acceptable LOS under Alternative A. The implementation of Alternative C would result in unacceptable intersection LOS at the new US 50/Pioneer Trail/Old US 50, Old US 50/Park Avenue/Heavenly Village Way, and new US 50/Lake Parkway/Old US 50 (roundabout option) intersections during summer peak-hour conditions. Exhibits 3.6-10 through 3.6-18 show the lane geometry and study area volumes associated with each of the project alternatives. Because redevelopment of one or more of the mixed-use development sites would not	The design features of Alternatives A, B, D, and E would avoid or minimize the impacts on intersection operations in 2020 such that no additional mitigation measures are needed or feasible to implement; Mitigation Measure 3.6-2 has been incorporated into Alternative C to further reduce to the extent feasible the environmental consequences related to impacts on intersection operations in 2020.	Alt A = LTS Alts B, D, E = B Alt C = S	Mitigation Measure 3.6-2: Change the eastbound and westbound directional traffic on US 50  This mitigation would apply to Alternative C transportation improvements for the purposes of NEPA, CEQA, and TRPA. During subsequent design phases, the project proponent shall reverse the directions of traffic flow on US 50 such that eastbound US 50 would be realigned onto a new alignment along Lake Parkway southeast of existing US 50, and westbound US 50 would remain in place as under existing conditions.	Alts A, B, D, E = NA Alt C = No additional mitigation measures would be needed or are feasible to implement.	Alt A = LTS Alts B, D, E = B Alt C = LTS	

Table S-1 Summary of Resource Topics with Impacts and Avoidance, Minimization, and/or Mitigation Measures

Resource Topics/Impacts	Environmental Consequences (NEPA)/ Impact Determinations (CEQA, TRPA) before Mitigation (by Alternative)		Avoidance, Minimization, and/or Mitigation Measures	Impact Determinations	Environmental Consequences (NEPA)/ Impact Determinations (CEQA, TRPA) after Mitigation (by Alternative)		
	NEPA	CEQA/TRPA		NEPA	CEQA/TRPA		
Adv = Adverse B = Beneficial LTS = Less than significant MU =	mixed-use NA = Not applica	ble NAdv = Not	adverse NI = No impact PS = Potentially significant S	= Significant SU = Significant a	nd unavoidable		
generate new trips as it would provide replacement housing for displaced residents and the remaining site(s) would be constructed between 2020 and 2040, the Alternatives B, C, and D mixed-use development sites were not analyzed under this 2020 (opening day) scenario.							
Impact 3.6-3: Impacts on roadway segment operations – 2020 (Opening Day)  Under the opening day conditions, Alternatives B, D, and E would result in acceptable roadway segment LOS during annual average and summer peak hours. Alternative E would actually improve roadway segment LOS for both roadway study segments during summer peak conditions. However, with Alternative C, three roadway segments within the study area (eastbound and westbound existing US 50 between Pioneer Trail and Park Avenue and one-way eastbound US 50 between Park Avenue and Lake Parkway) would be reduced to unacceptable roadway segment LOS. LOS segment operations would remain at acceptable levels for all study area arterial segments with Alternative A. Because redevelopment of one or more of the mixed-use redevelopment sites would not generate new trips as it would provide replacement housing for displaced residents and the remaining site(s) would be constructed between 2020 and 2040, the Alternatives B, C, and D mixed-use development sites were not analyzed under this 2020 (opening day) scenario.	The design features of Alternatives A, B, D, and E would avoid or minimize the impacts on roadway segment operations in 2020 such that no additional mitigation measures are needed or feasible to implement; Mitigation Measure 3.6-3 has been incorporated into Alternative C to further reduce to the extent feasible the impacts on roadway segment operations in 2020.	Alts A, B, D = LTS Alt E = B Alt C = S	Mitigation Measure 3.6-3: Change the eastbound and westbound directional traffic on US 50  pursuantpursuance to Mitigation Measure 3.6-2  This mitigation would apply to Alternative C transportatio improvements for the purposes of NEPA, CEQA, and TRP See Mitigation Measure 3.6-2 above. The same mitigation measure would apply.	A. Alternative C, but there	Alts A, B, D = LTS Alts = B Alt C = SU		
Impact 3.6-4: Impacts on vehicle miles of travel – 2020 (Opening Day)  Realignment of US 50 to create the opportunity for community revitalization in the Stateline/South Lake Tahoe tourist core is included in the approved RTP (originally named Alternative 3 in the Lake Tahoe Regional Transportation Plan and Sustainable Communities Strategy Draft Environmental Impact	The design features of Alternatives A, B, C, D, and E would avoid or minimize the impacts on VMT in 2020 such that no additional mitigation	Alts B, C, D = B Alts A, E = LTS	No avoidance, minimization, or mitigation measures are required to reduce impacts such that no additional mitigation measures are needed or feasible to implemer for the purposes of NEPA or to a less-than-significant lever		Alts B, C, D = B Alts A, E = LTS		

Resource Topics/Impacts	Environmental Consequences (NEPA)/ Impact Determinations (CEQA, TRPA) before Mitigation (by Alternative)		Avoidance, Minimization, and/or Mitigation Measures		Environmental Consequences (NEPA Impact Determinations (CEQA, TRPA after Mitigation (by Alternative)		CEQA, TRPA)		
	N	IEPA	CEQA/TRPA					NEPA	CEQA/TRPA
Adv = Adverse B = Beneficial LTS = Less than significant MU =	mixed-use	NA = Not applicab	le NAdv = Not	adverse	NI = No impact	PS = Potentially significant S = 5	Significant	SU = Significant a	nd unavoidable
Report/Draft Environmental Impact Statement [RTP/SCS		re needed or							
EIR/EIS]) and the RTP would have a net beneficial effect by	feasible to in	nplement.							
reducing regional per capita vehicle miles traveled (VMT). The									
opportunity for community revitalization would be a source of									
reduced VMT, because visitor uses could be concentrated in a									
compact, pedestrian/bicycle/transit-served urban core,									
decreasing the need to take vehicle trips to reach some									
tourism destinations (e.g., hotel to restaurant or entertainment									
venue trip, retail shopping trips). The realignment, itself, would									
cause a small, localized increase in VMT for through traffic with									
Alternatives B, C, and D, because the route of US 50 would be									
slightly longer around the tourist core than through it; however,									
its mobility enhancements and support of planned									
development in an urban center would be consistent with									
attaining the regional total VMT threshold (as required by the									
Lake Tahoe Regional Plan and evaluated in the Regional Plan									
Update EIS). The realignment of US 50, would remain									
consistent with the VMT per capita goal of RTP/SCS EIR/EIS									
Alternative 3 and would support achievement of the Regional									
Plan VMT requirements, so the beneficial impact of the RTP on									
regional VMT would be sustained. Alternative A would affect									
VMT because it would not support revitalization of the tourist									
core and would retain the same length of US 50 in the corridor.									
For Alternative E, the existing roadway alignment would remain									
the same with separation of pedestrians on an elevated									
structure. It would not support revitalization in the tourist core									
as effectively as the realignment alternatives and the through-									
traffic trip length on US 50 would be unchanged. Because									
redevelopment of one or more of the three mixed-use									
development sites would not generate new trips as it would									
provide replacement housing for displaced residents and the									
remaining site(s) would be constructed between 2020 and									

Table S-1 Summary of Resource Topics with Impacts and Avoidance, Minimization, and/or Mitigation Measures

Resource Topics/Impacts	Environmental Consequences (NEPA), Impact Determinations (CEQA, TRPA) before Mitigation (by Alternative)		Avoidance, Minimization, and/or Mitigation Measures	Environmental Consequences (NEPA)/ Impact Determinations (CEQA, TRPA) after Mitigation (by Alternative)		
	NEPA	CEQA/TRPA		NEPA	CEQA/TRPA	
Adv = Adverse B = Beneficial LTS = Less than significant MU =	mixed-use NA = Not applica	ble NAdv = Not	adverse NI = No impact PS = Potentially significant S =	Significant SU = Significa	nt and unavoidable	
2040, the Alternatives B, C, and D mixed-use development sites are not analyzed under the 2020 (opening day) scenario.						
Impact 3.6-5: Impacts on bicycle and pedestrian facilities – 2020 (Opening Day)  Because of their design, Alternatives B, C, D, and E would not disrupt or interfere with existing or planned bicycle/pedestrian facilities; rather, they would enhance the existing infrastructure and create a bicycle and pedestrian network with enhanced connectivity. Furthermore, Alternatives B, C, D, and E would not create an inconsistency with any adopted policies related to bicycle or pedestrian systems. No modifications to the existing bicycle or pedestrian infrastructure would occur under Alternative A. Because redevelopment of one or more of the three mixed-use development sites would not generate new trips as it would provide replacement housing for displaced residents, relocated residents would have access to the same pedestrian and bicycle facilities as under existing conditions, and the remaining site(s) would be constructed between 2020 and 2040, the Alternatives B, C, and D mixed-use development sites were not analyzed under this 2020 (opening day) scenario.	Alt A = NI The design features of Alternatives B, C, D, and E would avoid or minimize the impacts on bicycle and pedestrian facilities in 2020 such that no additional mitigation measures are needed or feasible to implement.	Alts B, C, D, E = B Alt A = NI	No avoidance, minimization, or mitigation measures are required to reduce impacts such that no additional mitigation measures are needed or feasible to implement for the purposes of NEPA or to a less-than-significant level for the purposes of CEQA and TRPA.	NA NA	Alts B, C, D, E = B Alt A = NI	
Impact 3.6-6: Impacts on transit – 2020 (Opening Day)  Alternatives B, C, D, and E would not disrupt or interfere with existing transit facilities and would enhance the existing transit infrastructure. Furthermore, the build alternatives would be consistent with adopted policies related to transit systems. No modifications to the existing transit infrastructure would occur under Alternative A. Because Alternatives B, C, and D mixed-use development would be constructed between 2020 and 2040, this condition is not analyzed under the 2020 (opening day) scenario. However, replacement housing for these alternatives would be constructed at one or more of the three mixed-use development sites prior to implementation of the transportation	The design features of Alternatives A, B, C, D, and E would avoid or minimize the impacts on transit in 2020 such that no additional mitigation measures are needed or feasible to implement.	Alts B, C, D = B Alts A, E = LTS	No avoidance, minimization, or mitigation measures are required to reduce impacts such that no additional mitigation measures are needed or feasible to implement for the purposes of NEPA or to a less-than-significant level for the purposes of CEQA and TRPA.	NA	Alts B, C, D = B Alts A, E = LTS	

Table S-1 Summary of Resource Topics with Impacts and Avoidance, Minimization, and/or Mitigation Measures

Resource Topics/Impacts	Environmental Consequences (NEPA)/ Impact Determinations (CEQA, TRPA) before Mitigation (by Alternative)		Avoidance, Minimization, and/or Mitigation Measures		Environmental Consequences (NEPA)/ Impact Determinations (CEQA, TRPA) after Mitigation (by Alternative)		
	NEPA	CEQA/TRPA			NEPA	CEQA/TRPA	
Adv = Adverse B = Beneficial LTS = Less than significant MU =	mixed-use NA = Not applicat	ole NAdv = Not	adverse NI = No impact	PS = Potentially significant S = S	ignificant SU = Significant a	nd unavoidable	
improvements in California and is analyzed here for the 2020 scenario. Transit demand associated with the replacement housing could shift within the project site, but there would be no net increase in the number of residents in the project site that would result in an increase in demand for transit.							
Impact 3.6-7: Construction-related traffic impacts – 2020 (Opening Day)  Construction of the transportation improvements for Alternatives B, C, D, and E would result in construction-related traffic and temporary disruption to traffic circulation in the area of construction. The transportation improvements could be constructed over three construction seasons. In accordance with Caltrans requirements, the construction phase of the project would include a Transportation Management Plan (TMP) that would be implemented during construction operations. The TMP would be completed in coordination with Caltrans, TTD, TRPA, NDOT, City of South Lake Tahoe, and Douglas County. Implementation of the TMP would minimize transportation disruptions during construction. No construction would occur under Alternative A. Lane closures and temporary full closure of US 50 would occur with construction of Alternative E. The replacement housing would be constructed at one or more of the mixed-use development sites prior to construction of transportation improvements. Construction activities for the replacement housing would maintain access to businesses and residences and would conform with City of South Lake Tahoe standards, as applicable. Because construction of mixed-use development at the remaining site(s) would be constructed after 2020, Alternatives B, C, and D mixed-use development were not analyzed under the 2020 (opening day) scenario.	Alt A = NI The design features of Alternatives B, C, D, and E would avoid or minimize the construction-related traffic impacts in 2020 such that no additional mitigation measures are needed or feasible to implement; The design features of Alternative E would minimize the construction-related traffic impacts in 2020, but there are no other feasible mitigation, avoidance, or minimization measures that could further reduce construction-related traffic impacts.	Alts B, C, D = LTS Alt A = NI Alt E = SU	required to reduce impact mitigation measures are	needed or feasible to implement or to a less-than-significant level	Alts A, B, C, D = NA Alt E = The design features of Alternative E would minimize the construction-related traffic impacts in 2020, but there are no other feasible mitigation, avoidance, or minimization measures that could further reduce construction-related traffic impacts.	Alts B, C, D = LTS Alt A = NI Alt E = SU	

Table S-1 Summary of Resource Topics with Impacts and Avoidance, Minimization, and/or Mitigation Measures Environmental Consequences (NEPA)/ Environmental Consequences (NEPA)/ Impact Determinations (CEQA, TRPA) Impact Determinations (CEQA, TRPA) Resource Topics/Impacts Avoidance, Minimization, and/or Mitigation Measures before Mitigation (by Alternative) after Mitigation (by Alternative) NEPA NEPA CEQA/TRPA CEQA/TRPA LTS = Less than significant MU = mixed-use NA = Not applicable NAdv = Not adverse PS = Potentially significant S = Significant SU = Significant and unavoidable Adv = Adverse B = Beneficial NI = No impact Impact 3.6-8: Impacts on vehicular, bicycle, and pedestrian The design features of Alts B, C, D, E No avoidance, minimization, or mitigation measures are Alts B, C, D, E = NAAlts B, C, D, E safety - 2020 (Opening Day) Alternatives B, C, D, and E = B required to reduce impacts such that no additional Alt A = There would be no = R Alternatives B, C, D, and E would enhance the existing would avoid or minimize Alt A = SUAlt A = SUmitigation measures are needed or feasible to implement mechanism by which to infrastructure and improve safety throughout the vehicular. the impacts on vehicular, for the purposes of NEPA or to a less-than-significant level implement or enforce bicycle, and pedestrian network within the study area. No for the purposes of CEQA and TRPA. avoidance or mitigation bicycle, and pedestrian modifications to the existing vehicular, bicycle, or pedestrian safety in 2020 such that no measures to minimize infrastructure would occur under Alternative A, however additional mitigation impacts on vehicular. vehicular traffic would increase within the study area thus measures are needed or bicycle, and pedestrian feasible to implement; safety in 2020 from impacting bicycle safety and the existing above state average traffic accidents and injuries occurring at the US 50/Lake there would be no Alternative A. Parkway Loop intersection. Construction of replacement mechanism by which to housing at one or more of the mixed-use development sites implement or enforce would not substantially alter vehicular travel within the study avoidance or mitigation area and would have no direct effect on bicycle or pedestrian measures to minimize infrastructure. However, constructing the mixed-use impacts on vehicular. development in the tourist core achieves the transit-oriented bicycle, and pedestrian development principles envisioned in the Regional Plan, TCAP, safety in 2020 from and SSAP that lead to increased use of multi-modal Alternative A. transportation opportunities (e.g., bicycle and pedestrian facilities). Mixed-use development at the remaining site(s) would be constructed between 2020 and 2040; therefore, the Alternatives B, C, and D mixed-use development at these sites is not analyzed under the 2020 (opening day) scenario. Alts A, B, D, E Impact 3.6-9: Impacts on emergency access - 2020 The design features of Alts A, B, D, E Mitigation Measure 3.6-9: Change the eastbound and Alts A, B, D, E = NAAlternatives A. B. D. and E = LTS westbound directional traffic on US 50 pursuant to Alt C = Mitigation = LTS (Opening Day) The build alternatives could affect police services, fire would avoid or minimize Alt C = SMitigation Measure 3.6-2 Measure 3.6-9 has been Alt C = SUprotection, and emergency medical services response times This mitigation would apply to Alternative C transportation incorporated into the impacts on emergency access in 2020 such that and delivery of emergency services. Alternatives B, D, and E improvements for the purposes of NEPA, CEQA, and TRPA. Alternative C. but there would reduce congestion along existing US 50 and thereby See Mitigation Measure 3.6-2 above. The same mitigation no additional mitigation are no other feasible improve long-term emergency access within the study area. measures are needed or measure would apply. mitigation, avoidance, or There would be no changes under Alternative A. Alternative C feasible to implement: minimization measures would result in increased congestion and reduced emergency Mitigation Measure 3.6-9 that could further reduce

has been incorporated into

access to a segment of existing US 50 due to the new

to the extent feasible the

Table S-1 Summary of Resource Topics with Impacts and Avoidance, Minimization, and/or Mitigation Measures Environmental Consequences (NEPA)/ Environmental Consequences (NEPA)/ Impact Determinations (CEQA, TRPA) Impact Determinations (CEQA, TRPA) Resource Topics/Impacts Avoidance, Minimization, and/or Mitigation Measures before Mitigation (by Alternative) after Mitigation (by Alternative) NEPA NEPA CEQA/TRPA CEQA/TRPA NI = No impact PS = Potentially significant S = Significant SU = Significant and unavoidable Adv = Adverse B = Beneficial LTS = Less than significant MU = mixed-use NA = Not applicable NAdv = Not adverse circulation patterns. Because mixed-use development would Alternative C to further environmental be constructed between 2020 and 2040, Alternatives B, C, reduce to the extent consequences related to and D mixed-use development were not analyzed under this feasible the environmental emergency access in 2020 (opening day) scenario. Replacement housing 2020. consequences related to constructed at one of the three mixed-use development under emergency access in 2020. the 2020 scenario would not interfere with existing emergency access and would be constructed to meet City requirements for emergency access. Impact 3.6-10: Construction-related parking impacts Alt A = NIAlt A = NIMitigation Measure 3.6-10: Prepare a detailed parking Alts A. E = NA Alt A = NIAlt E= LTS plan to meet Heavenly Village Center demand during Alts B. C. D = No Alts B. C. D. E Construction staging areas for transportation improvements Mitigation Measure 3.6-10 associated with Alternatives B, C, D, and E could be located on has been incorporated into Alts B. C. D = construction, pursuant to Mitigation Measure 3.6-11 additional mitigation = LTS measures would be one or more parking lots at Harvey's Lake Tahoe, Hard Rock Alternatives B. C. and D to S This mitigation would apply to Alternatives B, C, and D Hotel and Casino, and Montbleu Resort and Casino. These further reduce to the extent mixed-use development, including replacement housing, needed or are feasible to property owners have indicated there is sufficient parking in feasible the environmental at Site 3 for the purposes of NEPA, CEQA, and TRPA. implement. their parking garages. A construction staging area on the consequences related to See Mitigation Measure 3.6-11. The same mitigation Harvey's parking lot would not interfere with the annual temporary loss of parking; measure would apply. summer concert series. The use of any of these sites would be The design features of implemented through a willing agreement between the Alternative E would avoid or property owner and construction contractor. Construction minimize constructionimpacts on parking associated with project construction would related parking be temporary in nature and would only occur leading up to environmental 2020 (opening day). consequences such that no additional mitigation Although construction details associated with the mixed-use measures are needed or component, including replacement housing, of each of the build feasible to implement. alternatives where it is proposed (Alternatives B. C. and D) are not known at this time; it is anticipated that these alternatives with mixed-use development would meet their needs for a construction staging area on-site, on right-of-way acquired for the project, or through agreement with a private property owner for use of their land. The mixed-use development, including replacement housing, would be subject to all applicable regulations and permit requirements. Construction staging for Alternatives B, C, and D mixed-use development, including

Table S-1 Summary of Resource Topics with Impacts and Avoidance, Minimization, and/or Mitigation Measures

Resource Topics/Impacts	Environmental Consequen Impact Determinations (C before Mitigation (by Ali		Avoidance, Minimization, and/or Mitigation Measures	Environmental Consequences (NEPA)/ Impact Determinations (CEQA, TRPA) after Mitigation (by Alternative)		
	NEPA	CEQA/TRPA		NEPA	CEQA/TRPA	
Adv = Adverse B = Beneficial LTS = Less than significant MU =	mixed-use NA = Not applica	ble NAdv = Not	adverse NI = No impact PS = Potentially significant S = S	Significant SU = Significant a	nd unavoidable	
replacement housing, at Site 3 would result in the amount of parking at the Heavenly Village Center to be below city parking requirements. Construction staging for Alternatives B, C, and D mixed-use development, including replacement housing, at Sites 1 and 2 would not result in temporary loss of parking beyond the loss of parking located at the businesses that would be displaced, which would no longer be required.  There would be no construction activities as part of Alternative A.						
Impact 3.6-11: Permanent parking impacts  Alternatives B, C, and D transportation improvements would result in the loss of between approximately 40 and 80 parking stalls at multiple businesses and Alternatives B, C, and D mixed-use development, including replacement housing, would result in the loss of between approximately 250 and 310 parking stalls. The loss of parking from these alternatives with mixed-use development, including replacement housing, would not be in addition to the parking losses from the transportation improvements. The amount of parking at Montbleu Resort and Casino would continue to be sufficient to meet city and county standards and the project would provide replacement parking equal to that lost at other businesses. Implementation of Alternatives B, C, and D mixed-use development, including replacement housing, at Sites 1 and 2 would not result in permanent loss of parking at businesses that would be displaced, which would no longer be required. Alternatives B, C, and D mixed-use development, including replacement housing, at Site 3 would cause the amount of parking at the Heavenly Village Center to fall below city parking requirements.  Alternatives A and E would not result in any permanent losses of parking.	Alts A, E = NI Mitigation Measure 3.6-11 has been incorporated into Alternatives B, C, and D to further reduce to the extent feasible the environmental consequences related to permanent loss of parking.	Alts B, C, D =  LTSPS  Alts A, E = NI	Mitigation Measure 3.6-11: Prepare a detailed parking plan to inform revision of Heavenly Village Center's Use Permit  This mitigation would apply to Alternatives B, C, and D mixed-use development, including replacement housing, at Site 3 for the purposes of NEPA, CEQA, and TRPA.  At the time of preparation of the project-level environmental plan for the mixed-use development, including replacement housing, at Site 3, the project applicant shall prepare a parking plan in accordance with Section 6.10 of the City of South Lake Tahoe Code. The recommendations includedincluding in the parking plan to meet parking demand and achieve City of South Lake Tahoe parking standards would be implemented by the project applicant prior to ground-breaking of the mixed-use development, including replacement housing, at Site 3.  The parking plan shall be submitted to the City of South Lake Tahoe, and referred to TRPA as necessary to obtain a use permit for modification of the parking demand ratios at the Heavenly Village Center. It would demonstrate the adequacy of the Heavenly Village Center parking that would remain after displacement of parking behind Raley's by construction of the mixed-use development,	Alts A, E = NA Alts B, C, D = No additional mitigation measures would be needed or are feasible to implement.	Alts B, C, D = LTS Alts A, E = NI	

Table S-1 Summary of Resource Topics with Impacts and Avoidance, Minimization, and/or Mitigation Measures Environmental Consequences (NEPA)/ Environmental Consequences (NEPA)/ Impact Determinations (CEQA, TRPA) Impact Determinations (CEQA, TRPA) Resource Topics/Impacts Avoidance, Minimization, and/or Mitigation Measures before Mitigation (by Alternative) after Mitigation (by Alternative) NEPA NEPA CEQA/TRPA CEQA/TRPA LTS = Less than significant MU = mixed-use NA = Not applicable NAdv = Not adverse PS = Potentially significant S = Significant SU = Significant and unavoidable Adv = Adverse B = Beneficial NI = No impact including replacement housing, at Site 3. The parking plan must demonstrate the following: ▲ Adequate off-street parking would be provided for the proposed use as determined by a parking plan; ▲ The environmental impact of the use would be lessened by the reduction in parking spaces (City staff may condition the use permit); and ▲ Traffic safety for other vehicles and pedestrians would be enhanced by the lesser requirement. The parking plan may propose a reduction in parking demand ratio at this shopping center from those set forth in City Code Section 6.10 based on a plan that proposes. but would not be limited to, one or more of the following: ▲ A transportation management plan, which would

Impact 3.6-12: Impacts on intersection operations – 2040
( <del>Horizon<u>Design</u> Year)</del>

Under 2040 horizon year conditions, improvements under Alternatives B and D transportation improvements and mixeduse development, including replacement housing, would operate intersections at annual average and summer peak-hour LOS C or better. Under Alternative A, operations at two intersections would be degraded to unacceptable levels. Alternative C transportation improvements and mixed-use development, including replacement housing, would degrade

The design features of
Altractives B, D, and E
would avoid or minimize
the effects on intersection
operations in 2040 such
that no additional
mitigation measures are
needed or feasible to

Alts B, D, E =
LTS
Alt A = SU
Alt C = S

implement; Mitigation

Measure 3.6-12 has been

## Mitigation Measure 3.6-12: Change the eastbound and westbound directional traffic on US 50 pursuant to Mitigation Measure 3.6-2

outline transit incentives, such as a shuttle system

or free or reduced cost transit passes for

Additional parking, which could be constructed elsewhere in the project site for the US 50/South Shore Community Revitalization Project.
 Establishment of a shared parking facility, in which uses have different peak periods, parking demand would not overlap, and would meet peak demands.

tenants/employees.

This mitigation would apply to Alternative C transportation improvements for the purposes of NEPA, CEQA, and TRPA. See Mitigation Measure 3.6-2 above. The same mitigation measure would apply.

Alts B, C, D, E = NA
Alt A = There would be no mechanism by which to implement or enforce avoidance or mitigation measures to minimize

Alts B, C, D, E = NA
Alt B, C, D, E = LTS
Alt A = SU

impacts on intersection

operations from

Alternative A.

TTD/TRPA/FHWA

Table S-1 Summary of Resource Topics with Impacts and Avoidance, Minimization, and/or Mitigation Measures Environmental Consequences (NEPA)/ Environmental Consequences (NEPA)/ Impact Determinations (CEQA, TRPA) Impact Determinations (CEQA, TRPA) Resource Topics/Impacts Avoidance, Minimization, and/or Mitigation Measures before Mitigation (by Alternative) after Mitigation (by Alternative) NEPA NEPA CEQA/TRPA CEQA/TRPA NA = Not applicable NAdv = Not adverse PS = Potentially significant S = Significant SU = Significant and unavoidable Adv = Adverse B = Beneficial LTS = Less than significant MU = mixed-use NI = No impact Alt C = No additional operations at three intersections to unacceptable levels or incorporated into exacerbate already unacceptable operations. Improvements Alternative C to further mitigation measures under Alternative E would operate intersections at annual reduce to the extent would be needed or are average and summer peak-hour LOS D or better. feasible to implement. feasible the environmental consequences related to impacts on intersection operations in 2040; there would be no mechanism by which to implement or enforce avoidance or mitigation measures to minimize Alternative A impacts on intersection operations in 2040. Mitigation Measure 3.6-13: Change the eastbound and Alts B, D, E = NA Impact 3.6-13: Impacts on roadway segment operations -The design features of Alts B, D, E = Alts B, D, E = 2040 (Horizon Design Year) Alternatives B, D, and E LTS westbound directional traffic on US 50 pursuant to Alt A = Adverse effects on LTS Under 2040 horizon year conditions, Alternatives B and D would avoid or minimize Alt A = SUMitigation Measure 3.6-2 roadway segment Alts A. C = SUAlt C = SThis mitigation would apply to Alternative C transportation transportation improvements and mixed-use development. the environmental operations in 2040 from including replacement housing, and Alternative E would result consequences related to improvements for the purposes of NEPA, CEOA, and TRPA. Alternative A could not be in acceptable roadway segment LOS during annual average roadway segment reduced because there See Mitigation Measure 3.6-2 above. The same mitigation and summer peak hours. Under Alternative A. one roadway operations in 2040: would be no mechanism measure would apply. study segment would operate at unacceptable LOS. Under Mitigation Measure 3.6-13 by which to implement or Alternative C transportation improvements and mixed-use has been incorporated into enforce avoidance or development, including replacement housing, three roadway Alternative C to further mitigation measures. segments would be reduced to unacceptable roadway Alt C = Mitigation reduce to the extent segment LOS. feasible the environmental Measure 3.6-13 has been consequences related to incorporated into roadway segment Alternative C. but there operations in 2040: There are no other feasible would be no mechanism by mitigation, avoidance, or which to implement or minimization measures

enforce avoidance or

mitigation measures to

that could further reduce to the extent feasible the

Table S-1 Summary of Resource Topics with Impacts and Avoidance, Minimization, and/or Mitigation Measures

Resource Topics/Impacts	Environmental Consequences (NEPA)/ Impact Determinations (CEQA, TRPA) before Mitigation (by Alternative)		Avoidance, Minimization, and/or Mitigation Measures	Environmental Consequences (NEPA)/ Impact Determinations (CEQA, TRPA) after Mitigation (by Alternative)		
	NEPA	CEQA/TRPA		NEPA	CEQA/TRPA	
Adv = Adverse B = Beneficial LTS = Less than significant MU =	mixed-use NA = Not applicat	ble NAdv = Not	adverse NI = No impact PS = Potentially significant S =	Significant SU = Significant a	nd unavoidable	
	minimize Alternative A impacts on roadway segment operations in 2040.			environmental consequences related to roadway segment operations in 2040.		
Impact 3.6-14: Impacts on vehicle miles of travel – 2040 (Horizon Design Year)  Realignment of US 50 to create the opportunity for community revitalization in the Stateline/South Lake Tahoe tourist core is included in the approved RTP (originally named Alternative 3 in the 2012 RTP/SCS EIR/EIS) and the RTP would have a net beneficial effect by reducing regional per capita VMT. The opportunity for community revitalization would be a source of reduced VMT, because visitor uses could be concentrated in a compact, pedestrian/bicycle/transit-served urban core, decreasing the need to take vehicle trips to reach some tourism destinations (e.g., hotel to restaurant or entertainment venue trip, retail shopping trips). The realignment, itself, would cause a small, localized increase in VMT for through traffic with Alternatives B, C, and D, because the route of US 50 would be slightly longer around the tourist core than through it; however, its mobility enhancements and support of planned development in an urban center would be consistent with attaining the regional total VMT threshold (as required by the Lake Tahoe Regional Plan and evaluated in the Regional Plan Update EIS). The realignment of US 50, would remain consistent with the VMT per capita goal of RTP/SCS EIR/EIS Alternative 3 and would support achievement of the Regional Plan VMT requirements, so the beneficial impact of the RTP on regional VMT would be sustained. Alternatives B, C, and D would help implement the RTP's beneficial impact on regional VMT. Alternative A would affect VMT because it would not support revitalization of the tourist core and would retain the same length of US 50 in the corridor. For Alternative E, the	The design features of Alternatives A, B, C, D, and E would avoid or minimize the impacts on VMT in 2040 such that no additional mitigation measures are needed or feasible to implement	Alts B, C, D = B Alts A, E= LTS	No avoidance, minimization, or mitigation measures are required to reduce impacts such that no additional mitigation measures are needed or feasible to implement for the purposes of NEPA or to a less-than-significant level for the purposes of CEQA and TRPA.	Alts A, B, C, D, E = NA	Alts B, C, D = B Alts A, E= LTS	

Table S-1 Summary of Resource Topics with Impacts and Avoidance, Minimization, and/or Mitigation Measures

Resource Topics/Impacts	Environmental Consequences (NEPA)/ Impact Determinations (CEQA, TRPA) before Mitigation (by Alternative)		Avoidance, Minimization, and/or Mitigation Measures	Environmental Consequences (NEPA)/ Impact Determinations (CEQA, TRPA) after Mitigation (by Alternative)	
	NEPA	CEQA/TRPA		NEPA	CEQA/TRPA
Adv = Adverse B = Beneficial LTS = Less than significant MU =	mixed-use NA = Not applica	ole NAdv = Not	adverse NI = No impact PS = Potentially significant S = S	Significant SU = Significant a	nd unavoidable
existing roadway alignment would remain the same with separation of pedestrians on an elevated structure. It would not support revitalization in the tourist core as effectively as the realignment alternatives and the through-traffic trip length on US 50 would be unchanged.					
Impact 3.6-15: Impacts on bicycle and pedestrian facilities – 2040 (HorizonDesign Year)  Because of their design, Alternatives B, C, D, and E would not disrupt or interfere with existing or planned bicycle/pedestrian facilities; rather, they would enhance the existing infrastructure and create a bicycle and pedestrian network with enhanced connectivity. Furthermore, Alternatives B, C, D, and E would not create an inconsistency with any adopted policies related to bicycle or pedestrian systems. No modifications to the existing bicycle or pedestrian infrastructure would occur under Alternative A.	Alt A = NI The design features of Alternatives B, C, D, and E would avoid or minimize the impacts on bicycle and pedestrian facilities in 2040 such that no additional mitigation measures are needed or feasible to implement.	Alts B, C, D, E = B Alt A = NI	No avoidance, minimization, or mitigation measures are required to reduce impacts such that no additional mitigation measures are needed or feasible to implement for the purposes of NEPA or to a less-than-significant level for the purposes of CEQA and TRPA.	Alts B, C, D, E = NA Alt A = NI	Alts B, C, D, E = B Alt A = NI
Impact 3.6-16: Impacts on transit –2040 (Horizon Design Year) Alternatives B, C, D, and E would not disrupt or interfere with existing transit facilities and would enhance the existing transit infrastructure. Furthermore, none of the build alternatives would create an inconsistency with any adopted policies related to transit systems. The overall increased travel time under Alternative A would be minimal.	The design features of Alternatives A, B, C, D, and E would avoid or minimize the impacts on transit in the 2040 horizon year such that no additional mitigation measures are needed or feasible to implement	Alts B, C, D, E = B Alt A = LTS	No avoidance, minimization, or mitigation measures are required to reduce impacts such that no additional mitigation measures are needed or feasible to implement for the purposes of NEPA or to a less-than-significant level for the purposes of CEQA and TRPA.	NA	Alts B, C, D, E = B Alt A = LTS
Impact 3.6-17: Construction-related traffic impacts – 2040 (HorizenDesign Year) Construction impacts are temporary in nature and would only occur leading up to opening day for each of the alternatives. However, the mixed-use development for each of the build alternatives where it is proposed (Alternatives B, C, and D), could be constructed following the 2020 opening day.	Alts A, B, C, D, E = NI	Alts A, B, C, D, E = NI	No avoidance, minimization, or mitigation measures are required to reduce impacts such that no additional mitigation measures are needed or feasible to implement for the purposes of NEPA or to a less-than-significant level for the purposes of CEQA and TRPA.	NA	Alts A, B, C, D, E = NI

Table S-1 Summary of Resource Topics with Impacts and Avoidance, Minimization, and/or Mitigation Measures

Resource Topics/Impacts	Environmental Consequences (NEP Impact Determinations (CEQA, TRI before Mitigation (by Alternative		Avoidance, Minimization, and/or Mitigation Measures	Environmental Consequences (NEPA)/ Impact Determinations (CEQA, TRPA) after Mitigation (by Alternative)		
	NEPA	CEQA/TRPA		NEPA	CEQA/TRPA	
Adv = Adverse B = Beneficial LTS = Less than significant MU =	mixed-use NA = Not applical	ole NAdv = Not	adverse NI = No impact PS = Potentially significant S =	Significant SU = Significant a	nd unavoidable	
Construction of the mixed-use development as part of the build alternatives could result in construction-related traffic and temporary disruption to traffic circulation in the area of construction. Construction details associated with the mixed-use development are not known at this time and as part of approval and permitting process, any identified impacts would be addressed. The mixed-use development would be subject to all applicable regulations and permit requirements. Because there is no mixed-use development included for Alternative A or Alternative E, there would be no construction during the 2040 (horizon year) scenario.						
Impact 3.6-18: Impacts on vehicular, bicycle, and pedestrian safety – 2040 (Horizon Design Year)  Alternatives B, C, D, and E would enhance the existing infrastructure and improve safety throughout the vehicular, bicycle, and pedestrian network within the study area.  Redevelopment at the mixed-use development sites, including housing, in the tourist core achieves the transit-oriented development principles envisioned in the Regional Plan, TCAP, and SSAP that lead to increased use of multi-modal transportation opportunities (e.g., bicycle and pedestrian facilities). No modifications to the existing vehicular, bicycle, or pedestrian infrastructure would occur under Alternative A; however, vehicular traffic would increase within the study area thus impacting bicycle safety and the existing above state average traffic accidents and injuries occurring at the US 50/Lake Parkway Loop intersection.	The design features of Alternatives B, C, D, and E would avoid or minimize the impacts on vehicular, bicycle, and pedestrian safety in 2040; there would be no mechanism by which to implement or enforce avoidance or mitigation measures to minimize impacts on vehicular, bicycle, and pedestrian safety in 2040 from Alternative A.	Alts B, C, D, E = B Alt A = SU	No avoidance, minimization, or mitigation measures are required to reduce impacts such that no additional mitigation measures are needed or feasible to implement for the purposes of NEPA or to a less-than-significant level for the purposes of CEQA and TRPA.	Alts B, C, D, E = NA Adverse effects on vehicular, bicycle, and pedestrian safety in 2040 from Alternative A could not be reduced because there would be no mechanism by which to implement or enforce avoidance or mitigation measures.	Alts B, C, D, E = B Alt A = SU	
Impact 3.6-19: Impacts on emergency access – 2040 (HorizonDesign Year) Alternatives B and D would reduce congestion along existing US 50 and thereby improve long-term emergency access within the study area. Alternative E would also reduce congestion	The design features of Alternatives B, D, and E would avoid or minimize the environmental consequences related to	Alts B, D = LTS Alt E = B Alt A = SU Alt C = S	Mitigation Measure 3.6-19: Change the eastbound and westbound directional traffic on US 50 pursuant to Mitigation Measure 3.6-2  This mitigation would apply to Alternative C transportation improvements for the purposes of NEPA, CEQA, and TRPA.	Alts B, D, E = NA Alt A = Adverse effects on emergency access in 2040 from Alternative A could not be reduced	Alts B, C, D = LTS Alt E = B Alts A, C = SU	

Table S-1 Summary of Resource Topics with Impacts and Avoidance, Minimization, and/or Mitigation Measures

Resource Topics/Impacts	Environmental Consequen Impact Determinations (C before Mitigation (by Al	EQA, TRPA)	Avoidance, Minimization, and/or Mitigation Measures		Environmental Consequences (NEPA)/ Impact Determinations (CEQA, TRPA) after Mitigation (by Alternative)		
	NEPA	CEQA/TRPA			NEPA	CEQA/TRPA	
Adv = Adverse B = Beneficial LTS = Less than significant MU =	mixed-use NA = Not applical	ole NAdv = Not	adverse NI = No impact	PS = Potentially significant S = S	Significant SU = Significant a	nd unavoidable	
along existing US 50 and additionally does not include any mixed-use development that would add trips to the roadway network and potentially affect emergency access during the construction phase. Alternative A would result in traffic conditions worsening during the summer peak along US 50 between Pioneer Trail and Lake Parkway resulting in impacts on emergency access. Alternative C would result in increased congestion and reduced operational emergency access to a segment of US 50 due to the new circulation patterns, impeding emergency access.	emergency access in 2040 such that no additional mitigation measures are needed or feasible to implement; Mitigation Measure 3.6-19 has been incorporated into Alternative C to further reduce to the extent feasible the environmental consequences related to impacts on emergency access in 2040; there would be no mechanism by which to implement or enforce avoidance or mitigation measures to minimize impacts on vehicular, bicycle, and pedestrian safety in 2040 from Alternative A.		See Mitigation Measure 3 measure would apply.	3.6-2 above. The same mitigation	because there would be no mechanism by which to implement or enforce avoidance or mitigation measures.  Alt C = Mitigation Measure 3.6-19 has been incorporated into Alternative C, but there are no other feasible mitigation, avoidance, or minimization measures that could further reduce to the extent feasible the environmental consequences related to emergency access in 2040.		
Impact 3.6-20: Daily vehicle trip ends (DVTE) impacts – 2040 (HorizonDesign Year)  Alternatives B, C, and D transportation improvements would not generate any additional DVTEs. However, these three alternatives would all generate greater than 200 net new DVTEs with the implementation of the mixed-use development. Because the displaced housing would be replaced at a one for one basis with the replacement housing component of these alternatives, the replacement housing would not generate any net new DVTEs. Alternative A would include no modifications to the existing conditions. Alternative E would not generate any additional DVTEs.	Alt A = NI Mitigation Measure 3.6-20 has been incorporated into Alternatives B, C and D to further reduce to the extent feasible the environmental consequences related to generating additional daily vehicle trip ends; The design features of Alternative E would avoid or minimize the	Alts B, C, D, E = <u>LTSS</u> Alt A = NI	through Air Quality Mitigat This mitigation would app mixed-use development for and TRPA. The project proponent sha Mitigation Fund in accord and Air Quality Mitigation air quality mitigation fee so with the mitigation fee sol Procedure. Fees generated	O: Mitigate DTVEDVTE impacts tion Fund Contribution by to Alternatives B, C, and D or the purposes of NEPA, CEQA, all contribute to the Air Quality ance with Chapter 65 – Traffic Program of the TRPA Code. The shall be assessed in accordance hedule in the TRPA Rules of ed by the air quality mitigation fee ams/improvements that reduce	Alts A, E = NA Alts B, C, D = No additional mitigation measures would be needed or are feasible to implement.	Alts B, C, D, E = LTS Alt A = NI	

Resource Topics/Impacts	Environmental Consequer Impact Determinations (C before Mitigation (by Al	EQA, TRPA)	Avoidance, Minimization, and/or Mitigation Measures	Environmental Consequences (NEPA)/ Impact Determinations (CEQA, TRPA) after Mitigation (by Alternative)	
	NEPA CEQA/TRP			NEPA	CEQA/TRPA
Adv = Adverse B = Beneficial LTS = Less than significant MU =	mixed-use NA = Not applical	ole NAdv = Not	adverse NI = No impact PS = Potentially significant S = S	Significant SU = Significant a	nd unavoidable
	environmental consequences related to daily vehicle trip ends in 2040 such that no additional mitigation measures are needed or feasible to implement.		VMT, improve air quality, and encourage alternative modes of transportation.		
3.7 Visual Resources/Aesthetics					
Impact 3.7-1: Degradation of scenic quality and visual character  Build Alternatives B through E would involve physical changes within the project site that would be visually evident to the public. Depending on the nature and intensity of project-related changes, they could potentially degrade the existing visual quality or character of the site and its surroundings, including a potential decrease in the TRPA Travel Route rating of roadway travel units or inconsistency with the TRPA SQIP, TRPA Design Review Guidelines, or applicable height and design standards. Under Alternatives B, C, and D, the existing four-lane US 50 through the tourist core would be reconfigured as a two-lane roadway. Lake Parkway and Montreal Road would be developed as the realigned US 50, either as a four-lane or two-lane roadway, depending on the alternative. A new section of roadway would be built from Montreal Road at Fern Road connecting to existing US 50 near what is now the intersection of US 50 and Pioneer Trail through an existing neighborhood. Under Alternative E, no changes to existing roadways would occur, except the removal of the signalized at-grade pedestrian scramble between Montbleu Resort Casino and Spa and the Hard Rock Hotel and Casino. Instead, an elevated pedestrian skywalk structure would be constructed over US 50 through	Alt A = NI Mitigation Measures 3.7-1a and 3.7-1b have been incorporated into Alternative B, C, D, and E to further reduce to the extent feasible the environmental consequences related to the degradation of scenic quality and visual character.	Alt A = NI Alts B, C, D, E = S	Mitigation Measure 3.7-1a: Mitigate for Changes in Visual Character from Pioneer Trail to Montreal Road  This mitigation measure would apply to the transportation improvements included in Alternatives B, C, and D for the purposes of NEPA, CEQA, and TRPA.  Realigning US 50 through the existing Rocky Point residential neighborhood between Pioneer Trail and Montreal Road would cause substantial changes in visual conditions.  Realigned US 50 would be designed in accordance with all applicable design standards and guidelines and thus would exhibit a high level of visual quality; however, it would result in significant change in visual character on the neighborhood. The addition of noise barriers could also contribute to the adverse change in visual character.  To mitigate for this impact, TTD, TRPA, and FHWA shall incorporate feasible design treatments (e.g. landscaped berm to reduce visible wall mass, landscaped screening, and wall texture and colors that blend with the surrounding environment) into the final project design.  Mitigation Measure 3.7-1b: Mitigate for Changes in Visual Character on Roadway Travel Unit #32  This mitigation measure would apply to Alternative E for purposes of NEPA, CEQA, and TRPA.	Alt A = NI Alts B, C, D, and E = Mitigation Measures 3.7- 1a and 3.7-1b have been incorporated into Alternatives B, C, and D, but there are no other feasible mitigation, avoidance, or minimization measures that could further reduce to the extent feasible the environmental consequences related to scenic quality and visual character.	Alt A = NI Alts B, C, D, E = SU

Table S-1 Summary of Resource Topics with Impacts and Avoidance, Minimization, and/or Mitigation Measures Environmental Consequences (NEPA)/ Environmental Consequences (NEPA)/ Impact Determinations (CEQA, TRPA) Impact Determinations (CEQA, TRPA) Resource Topics/Impacts Avoidance, Minimization, and/or Mitigation Measures before Mitigation (by Alternative) after Mitigation (by Alternative) NEPA NEPA CEQA/TRPA CEQA/TRPA LTS = Less than significant MU = mixed-use NA = Not applicable NAdv = Not adverse PS = Potentially significant S = Significant SU = Significant and unavoidable Adv = Adverse B = Beneficial NI = No impact the Casino Core from Stateline Avenue to the north end of the The elevated skywalk would be a massive, new, human-Montbleu Resort Casino. made feature within Roadway Travel Unit #32 and would be seen by motorists on US 50 traveling in either direction Most effects on scenic quality from implementation of as they approach the skywalk and they travel beneath it. Alternatives B, C, and D would result in a mix of impacts either The visual dominance of the skywalk would cause a because no changes in visual conditions would occur, changes decrease in the travel route rating from 13.5 to 10 for that would occur would be visually beneficial, or changes would Roadway Travel Unit #32, indicating an adverse effect on be compatible with existing conditions. Proposals for the mixedscenic quality. In views from the road, the skywalk would use development projects would have to undergo their own decrease the intactness and unity of views from the road, environmental review once they are defined and submitted for and the visual presence of the skywalk structure and its permitting, so it is unlikely that there would be a significant enclosure of the highway would substantially degrade the difference between the build alternatives with the transportation character of the roadway corridor as experienced by improvements alone or with the mixed-use development. motorists. Development of Alternative E would result in scenic quality impacts, because it would cause a decrease in the travel route To mitigate for this impact, TTD, TRPA, and FHWA could rating for Roadway Travel Unit #32 due to a decline in scenic modify the design the elevated skywalk feature to reduce quality from the covering of the road with a pedestrian structure. its visual mass by converting it to more narrow overhead Effects on visual character associated with Alternatives B, C, and pedestrian walkway crossings only. This design D within the residential neighborhood between Montreal Road modification would avoid impacts on the intactness and

## Impact 3.7-2: Interference with or disruption of scenic vistas or scenic resources

and Pioneer Trail and from Alternative E within the tourist core

would result in the greatest impacts, because they would substantially degrade visual character in the immediate area and

it would not be feasible to reduce the impact to a less-thansignificant level for the purposes of CEOA and TRPA.

Vertical components of the project, such as supports for traffic signals and light standards, have insufficient mass to substantially disrupt scenic views. However, large objects, depending on their location and the location from which they are viewed, could interfere with scenic views. Alternatives B, C, and D include construction of a pedestrian bridge over realigned US 50 (on Lake Parkway) near the California/Nevada state line. Also, in the neighborhood east of Pioneer Trail, sound walls may be

Alt A = NI The design features of Alternatives B. C. and D would avoid or minimize the impacts on scenic vistas and scenic resources such that no additional mitigation measures are needed or feasible to implement; Mitigation

Alt A = NIAlts B. C. D = LTS Alt E = S

Mitigation Measure 3.7-2: Mitigate for Decrease in Visual Ouality Rating for Scenic Resources 32.1 and 32.3 This mitigation measure would apply to Alternative E for purposes of NEPA, CEQA, and TRPA.

unity of views from the road, and would reduce or eliminate degradation of the character of the roadway

corridor as experienced by motorists.

The proposed skywalk structure that would be constructed as part of Alternative E would have the potential to affect views of scenic vistas and scenic resources, by interfering with views of scenic resources 32.1 and 32.3. The skywalk would cause a Alts A. B. C. D = NA Alt A = NIAlt E = Mitigation Measure 3.7-2 has been incorporated into Alternative E. but there are no other feasible

Alts B. C. D = LTS Alt E = SU

mitigation, avoidance, or

minimization measures

that could further reduce

to the extent feasible the

Table S-1 Summary of Resource Topics with Impacts and Avoidance, Minimization, and/or Mitigation Measures Environmental Consequences (NEPA)/ Environmental Consequences (NEPA)/ Impact Determinations (CEQA, TRPA) Impact Determinations (CEQA, TRPA) Resource Topics/Impacts Avoidance, Minimization, and/or Mitigation Measures before Mitigation (by Alternative) after Mitigation (by Alternative) NEPA NEPA CEQA/TRPA CEQA/TRPA LTS = Less than significant MU = mixed-use NA = Not applicable NAdv = Not adverse PS = Potentially significant S = Significant SU = Significant and unavoidable Adv = Adverse B = Beneficial NI = No impact needed along the new section of US 50 to reduce traffic noise on Measure 3.7-2 has been decrease in the Scenic Quality rating of these TRPA-listed environmental residential properties. Alternative E would involve constructing an incorporated into scenic resources. consequences related to elevated pedestrian skywalk over US 50. Large, elevated Alternative E to further scenic vistas and scenic To mitigate for this impact, TTD, TRPA, and FHWA could structures have the potential to block or disrupt scenic vistas or reduce to the extent resources. modify the design of the elevated skywalk feature to views of individual scenic resources. feasible impacts on scenic reduce its visual mass, as described in the Mitigation vistas and scenic Implementation of Alternatives B, C, and D would result in Measure 3.7-1b. This design modification would reduce resources. minimal impacts on scenic vistas and views of identified scenic the walkway's interference with views 32.1 and 32.3 and resources because no such views would be affected by project avoid decreasing the Scenic Quality rating of these scenic features. Any new mixed-use development that might occur resources. with Alternatives B, C, and D would be required by the TRPA Code of Ordinances to avoid impacts to scenic vistas and scenic resources through building design and orientation. The skywalk structure that would be built with Alternative E would interfere with views of two TRPA-listed scenic resources. Alternative A would result in no changes. Alt A = NI Alt A = NIMitigation Measure 3.7-3: Mitigate for Headlights Shining Alts A. E = NA Alt A = NIImpact 3.7-3: Increased light and glare New sources of light can result from exterior lighting or from Mitigation Measure 3.7-3 Alts B. C. D = onto Residential Properties. Alts B. C. D = NoAlts B, C, D, E the headlights of vehicles, while glare results from high-shine This mitigation measure would apply to the Alternatives B, = LTS has been incorporated into PS additional mitigation surfaces such as building windows (glass) and high-gloss Alternatives B, C, and D to Alt E = LTSC, and D transportation improvements for the purposes of measures would be painted surfaces. Alternatives B, C, and D would include new needed or are feasible to further reduce to the extent NEPA, CEQA, and TRPA. safety lighting (street lights) at intersections of local streets with feasible the light and glare implement. Sound barriers (walls or other noise abatement measures)

would be necessary to control traffic noise within the

Rocky Point residential neighborhood that realigned

3a, 3.15-3b, and 3.15-3c in Section 3.15, "Noise and

Vibration"). A secondary effect of the noise abatement

intruding onto residential properties. The barriers should

border the realigned highway. Such barriers should be

earthen berm, boulders, or combination thereof). All

be placed along realigned US 50 where private residences

constructed of solid material (e.g., wood, brick, adobe, an

measures would be to block vehicle headlights from

US 50 would pass through (see Mitigation Measures 3.15-

impacts. The design

features of Alternative E

would avoid or minimize

light and glare impacts

such that no additional

needed or feasible to

implement.

mitigation measures are

TTD	/TRPA	/FHW/A

realigned US 50. The introduction of a new source of light

during nighttime hours in these urban settings would not

existing night lighting of roadways, parking lots, and

substantially alter the amount of illumination, recognizing the

commercial areas. Alternatives B, C, and D would also route

the western segment of realigned US 50 through an existing

residential neighborhood east of Pioneer Trail. The headlights

residents whose homes border on the realigned US 50. Mixed-

use development that could be part of Alternatives B. C. and D

Standard design practices and regulations in local ordinances

of traffic on the realigned highway could potentially affect

would consist of new buildings and new exterior lighting.

Table S-1 Summary of Resource Topics with Impacts and Avoidance, Minimization, and/or Mitigation Measures Environmental Consequences (NEPA)/ Environmental Consequences (NEPA)/ Impact Determinations (CEQA, TRPA) Impact Determinations (CEQA, TRPA) Resource Topics/Impacts Avoidance, Minimization, and/or Mitigation Measures before Mitigation (by Alternative) after Mitigation (by Alternative) NEPA NEPA CEQA/TRPA CEQA/TRPA LTS = Less than significant MU = mixed-use NA = Not applicable NAdv = Not adverse PS = Potentially significant S = Significant SU = Significant and unavoidable Adv = Adverse B = Beneficial NI = No impact and planning documents pertaining to fixed sources of lighting barriers will be designed to blend into the restored would limit spillover illumination. Alternatives B, C, D, and E landscape along the highway, to the extent feasible. would have a less-than-significant impact from fixed sources of Ensuring a character consistent with the surrounding area light and glare. Alternatives B, C, and D would have a may involve the use of strategically placed boulders. potentially significant impact from headlights of vehicles native trees, or other vegetation; the addition of special shining onto residential properties bordering realigned US 50 in materials (e.g., wood or stonework) on the facade of the the Rocky Point neighborhood. Alternative A would have no sound wall; and/or a sound wall that is covered in vegetation. The location and design of sound barriers shall new impacts. adhere to any space requirements for snow removal on the adjacent roadway. 3.8 Cultural Resources Impact 3.8-1: Change in the significance of historical resources Alt A = No effectAlt A = NINA Alt A = NINo avoidance, minimization, or mitigation measures are The build alternatives would not affect the National Register of Alts B, C, D, E = NA Alts B, C, D, E required to reduce impacts such that no additional Alts B, C, D, E = LTS Historic Places (NRHP) listed Friday's Station, NRHP-eligible = LTS mitigation measures are needed or feasible to implement Pony Express Rider statue, or NRHP-eligible site 26 Do for the purposes of NEPA or to a less-than-significant level 451/KBG-4. The build alternatives would not physically alter for the purposes of CEQA and TRPA. the resources, change the properties' uses or physical features, or otherwise diminish those aspects of integrity that enable the resources to convey their historical significance. Mitigation Measure 3.8-2a: Install an Environmentally Alt A = NAImpact 3.8-2: Disturb unique archaeological resources Alt A = NIAlt A = NIAlt A = NIConstruction and excavation activities associated with the build Mitigation Measures 3.8-Alts B. C. D. E Sensitive Area fence Alts B. C. D. E Alts B. C. D. E = No alternatives could result in sediment disturbance and removal. 2a, 3.8-2b, and 3.8-2c = PS The following mitigation would apply to transportation additional mitigation = LTS which can adversely affect archaeological resources. There are have been incorporated improvements and mixed-use development, including measures would be no known archaeological resources that would be damaged or into Alternatives B. C. D. replacement housing, for Alternatives B, C, and D, and needed or are feasible to destroyed by the build alternatives (Alternatives B, C, D, and E). and E to further reduce to Alternative E for the purposes of NEPA, CEOA, and TRPA. implement. Because Alternatives B, C, D, and E would include excavation the extent feasible the An Environmentally Sensitive Area (ESA) fence shall be and other ground-disturbing activities, these alternatives could environmental installed to protect the unevaluated portion of the result in adverse physical effects on unknown archaeological consequences related to Johnson's Cut-Off/Pony Express Trail/Lincoln Highway unknown archaeological alignment north of the project area. The fence shall be resources. resources such that there installed from the entrance to Friday's Station on US 50 to would be No Adverse Effect a point 400 feet east of the Johnson's Cut-Off/Pony on unknown archaeological Express Trail/Lincoln Highway segment. A sign shall be

Resource Topics/Impacts	Environmental Conseque Impact Determinations ( before Mitigation (by A	CEQA, TRPA)	Avoidance, Minimization, and/or Mitigation Measures	Environmental Conso Impact Determination after Mitigation (	ons (CEQA, TRPA)
	NEPA	CEQA/TRPA		NEPA	CEQA/TRPA
v = Adverse B = Beneficial LTS = Less than significant MU =	mixed-use NA = Not applica	ble NAdv = Not	adverse NI = No impact PS = Potentially significant S = S	ignificant SU = Signific	ant and unavoidable
	resources; The design features of Alternatives B, C, D, and E would avoid or minimize the environmental consequences related to known archaeological resources such that there would be No Effect on known archaeological resources.		installed at the east end of the fence to exclude construction personnel access from the area behind the fence. The fence shall be installed in coordination with a qualified archaeologist prior to ground-disturbing activities and shall remain in place until after the project has been completed. The condition of the fence shall be monitored, and repaired if needed, periodically during the course of construction-by the archaeologist who supervised its installation.  Mitigation Measure 3.8-2b: Conduct archaeological monitoring  The following mitigation was included in the RTP/SCS EIR/EIS, which included the US 50/South Shore  Community Revitalization Project as one of the TTD  Capital Improvement Program projects in the RTP. This mitigation would apply to transportation improvements and mixed-use development, including replacement housing, for Alternatives B, C, and D, and Alternative E for the purposes of NEPA, CEQA, and TRPA.  In accordance with existing regulations, for ground-disturbing activities that have the potential to impact archaeological remains and that will occur in an area that has been determined by a qualified archaeologist to be sensitive (locations where previous disturbance has not occurred) for the presence of buried archaeological remains, the project proponent (e.g., TTD, local county, Caltrans, NDOT) shall require the construction contractor to retain a qualified archaeologist to monitor those activities. Archaeological monitoring shall be conducted in areas where there is likelihood that archaeological remains may be discovered but where those remains are not visible on the surface. Monitoring will not be		

Table S-1	Summ	ary of Resource Topic	s wit	h Impact	ts and Avoidan	ce, Minimiza	ation, and/or Mitigati	ion Measures			
	Resource To	pics/Impacts		Environmental Consequences (NEPA)/ Impact Determinations (CEQA, TRPA) before Mitigation (by Alternative)			Avoidance, Minimization	, and/or Mitigation Measures	Environmental Consequences (NEPA)/ Impact Determinations (CEQA, TRPA) after Mitigation (by Alternative)		CEQA, TRPA)
				NEPA CEQA/TRPA					NEPA	CEQA/TRPA	
Adv = Adverse	B = Beneficial	LTS = Less than significant	MU =	mixed-use	NA = Not applicat	ole NAdv = Not	adverse NI = No impact	PS = Potentially significant S = S	ignificant	SU = Significant a	nd unavoidable
							archaeological discovery The following mitigation wa EIR/EIS, which included the Community Revitalization R Capital Improvement Programitigation would apply to the and mixed-use developme housing, for Alternatives B, the purposes of NEPA, CEQ If potentially significant cultaring ground-disturbing as individual project preparation the project proponent shall contractor to stop work in the archaeologist can assess the information with TRPA and and interested parties. A query follow accepted profession find including submittal of Parks and Recreation (DPR DPR 523) and location information in the Historical Resources Informatical resources Informatical  Improvement Programment Programment All Programment The following submittal of Parks and Recreation (DPR DPR 523) and location informatical Resources Informatical The following mitigation was a constant of the following submittal of Parks and Recreation (DPR DPR 523) and location informatical Resources Informatical The following mitigation was a constant of the following submittal of Parks and Recreation (DPR DPR 523) and location informatical Resources Informatic	conent shall seek Native itation.  Stop work in the event of an as included in the RTP/SCS e US 50/South Shore Project as one of the TTD ram projects in the RTP. This ransportation improvements int, including replacement and TRPA. It is associated with item on, construction, or completion, and TRPA. It is associated with item on, construction, or completion, are quire the construction that area until a qualified the significance of the find, and, opriate treatment measures in the other appropriate agencies unalified archaeologist shall hal standards in recording any the standard Department of the Standard Department of the California mation Center office (North of the California projects. The nall also evaluate such per California Register of ility criteria (PRC Section on 4852) for California			

Resource Topics/Impacts	Environmental Consequer Impact Determinations (C before Mitigation (by A	CEQA, TRPA)	Avoidance, Minimization, and/or Mitigation Measures	Environmental Consequences (NEPA)/ Impact Determinations (CEQA, TRPA) after Mitigation (by Alternative)	
	NEPA CEQA/TRPA			NEPA	CEQA/TRPA
Adv = Adverse B = Beneficial LTS = Less than significant MU =	= mixed-use NA = Not applica	ble NAdv = Not	adverse NI = No impact PS = Potentially significant S =	Significant SU = Significant a	and unavoidable
			Preservation Officer shall be undertaken for Nevada projects.  If the archaeologist determines that the find does not meet the TRPA standards of significance for cultural resources, construction may proceed. If the archaeologist determines that further information is needed to evaluate significance, the lead agency shall be notified and a data recovery plan shall be prepared.		
Impact 3.8-3: Accidental discovery of human remains Construction and excavation activities associated with development activities may result in sediment disturbance and removal, which can unearth human remains if they are present. Because the project would allow excavation and other ground-disturbing activities, adverse physical effects on undiscovered or unrecorded human remains could occur.	Alt A = NI Mitigation Measure 3.8-3 has been incorporated into Alternatives B, C, D, and E to further reduce to the extent feasible the environmental consequences related to disturbance of undiscovered or unrecorded human remains.	Alt A = NI Alts B, C, D, E = PS	Mitigation Measure 3.8-3: Stop work if human remains are discovered  The following mitigation was included in the RTP/SCS EIR/EIS, which included the U.S. 50/South Shore Community Revitalization Project as one of the TTD Capital Improvement Program projects in the RTP. This mitigation would apply to transportation improvements and mixed-use development, including replacement housing, for Alternatives B, C, and D, and Alternative E for the purposes of NEPA, CEQA, and TRPA.  In accordance with existing regulations, if any human remains are discovered or recognized in any location on an individual project site, the project proponent will ensure that there will be no further excavation or disturbance of the site or any nearby area reasonably suspected to overlie adjacent human remains until:  a) The applicable County Coroner/Sheriff has been informed and has determined that no investigation of the cause of death is required; and  b) If the remains are of Native American origin,  1. The descendants of the deceased Native Americans have made a recommendation to the landowner or the person responsible for the excavation work, for the means of treating or	Alt A = NA Alts B, C, D = No additional mitigation measures would be needed or are feasible to implement.	Alt A = NI Alts B, C, D, E = LTS

Table S-1 Summary of Resource Topics with Impacts and Avoidance, Minimization, and/or Mitigation Measures Environmental Consequences (NEPA)/ Environmental Consequences (NEPA)/ Impact Determinations (CEQA, TRPA) Impact Determinations (CEQA, TRPA) Resource Topics/Impacts Avoidance, Minimization, and/or Mitigation Measures before Mitigation (by Alternative) after Mitigation (by Alternative) NEPA NEPA CEQA/TRPA CEQA/TRPA NA = Not applicable NAdv = Not adverse PS = Potentially significant S = Significant SU = Significant and unavoidable Adv = Adverse B = Beneficial LTS = Less than significant MU = mixed-use NI = No impact disposing of, with appropriate dignity, the human remains and any associated grave goods as provided in Public Resources Code Section 5097.98, or 2. The Native American Heritage Commission was unable to identify a descendant or the descendant failed to make a recommendation within 24 hours after being notified by the commission. 3. The site shall be flagged and avoided during construction. c) If human remains, grave goods, or items of cultural patrimony (as defined in the Native American Graves Protection and Repatriation Act [NAGPRA]) are discovered during ground-disturbing activities on Federal Property, work will cease until the provisions of NAGPRA are met. Alt A = NIAlt A = NIMitigation Measure 3.8-4a: Conduct tribal cultural Alt A = NA Alt A = NIImpact 3.8-4: Disturb tribal cultural resources resources monitoring Construction and excavation activities associated with the build Mitigation Measures 3.8-4a Alts B, C, D, E Alts B, C, D = NoAlts B, C, D, E = LTS alternatives could result in sediment disturbance and removal. and 3.8-4b have been = PS This mitigation would apply to transportation additional mitigation which can adversely affect archaeological resources, including incorporated into improvements and mixed-use development, including measures would be tribal cultural resources. There are no known tribal cultural Alternatives B. C. D. and E replacement housing, for Alternatives B, C, and D, and needed or are feasible to resources that would be damaged or destroyed by to further reduce to the Alternative E for the purposes of NEPA, CEOA, and TRPA. implement. Alternatives B. C. D. and E. extent feasible In accordance with existing regulations, for groundenvironmental disturbing activities that have the potential to impact tribal Because Alternatives B. C. D. and E would include excavation consequences related to cultural resources, such as archaeological remains, and and other ground-disturbing activities, these alternatives could unknown tribal cultural that will occur in an area that has been determined by a result in adverse physical effects on unknown tribal cultural resources. The design qualified archaeologist to be sensitive (locations where resources. features of Alternatives B. previous disturbance has not occurred) for the presence C. D. and E would avoid or of buried tribal cultural resource remains, the project minimize environmental proponent (e.g., TTD, local county, Caltrans, NDOT) shall require the construction contractor to retain a qualified consequences related to archaeologist to monitor those activities. Archaeological

	Resource To	ppics/Impacts	Impact [	ental Conseque Determinations ( Mitigation (by A	CEQA, TRPA)	Avoidance, Minimization, and/or Mitigation Measures	Impact	Environmental Consequences (NEPA)/ Impact Determinations (CEQA, TRPA) after Mitigation (by Alternative)		
				NEPA	CEQA/TRPA			NEPA	CEQA/TRPA	
Adv = Adverse	B = Beneficial	LTS = Less than significant MU	= mixed-use	NA = Not applica	ible NAdv = Not	adverse NI = No impact PS = Potentially significant S =	Significant	SU = Significant a	nd unavoidable	
			known triba resources.	al cultural		monitoring shall be conducted in areas where there is likelihood that tribal cultural resources, such as archaeological remains, may be discovered but where those remains are not visible on the surface. Monitoring will not be considered a substitute for efforts to identify and evaluate tribal cultural resources prior to project initiation. Where necessary, the project proponent shall seek Native American input and consultation.  Mitigation Measure 3.8-4b: Stop work in the event of a tribal cultural resource discovery  This mitigation would apply to transportation improvements and mixed-use development, including replacement housing, for Alternatives B, C, and D, and Alternative E for the purposes of NEPA, CEQA, and TRPA. If potentially significant tribal cultural resources are discovered during ground-disturbing activities associated with individual project preparation, construction, or completion, the project proponent shall require the construction contractor to stop work in that area until a qualified archaeologist can assess the significance of the find, and, if necessary, develop appropriate treatment measures in consultation with TRPA and other appropriate agencies and interested parties. A qualified archaeologist shall follow accepted professional standards in recording any find including submittal of the standard DPR Primary Record forms (Form DPR 523) and location information to the California Historical Resources Information Center office (North Central Information Center) for California projects. The consulting archaeologist shall also evaluate such resources for significance per California Register of Historical Resources eligibility criteria (PRC Section 5024.1; Title 14 CCR Section 4852). Consultation with the Nevada State Historic Preservation Officer and the				

Table S-1 Summary of Resource Topics wi	th Impacts and Avoidan	ce, Minimiz	ation, and/or Mitigation Measures			
Resource Topics/Impacts	Environmental Consequer Impact Determinations (C before Mitigation (by Al	EQA, TRPA)	Avoidance, Minimization, and/or Mitigation Measures	Environmental Consequences (NEPA)/ Impact Determinations (CEQA, TRPA) after Mitigation (by Alternative)		
	NEPA	CEQA/TRPA		NEPA	CEQA/TRPA	
Adv = Adverse B = Beneficial LTS = Less than significant MU	= mixed-use NA = Not applica	ble NAdv = Not	adverse NI = No impact PS = Potentially significant S = S	Significant SU = Significant	and unavoidable	
			Washoe Tribe of Nevada and California shall be undertaken for the portions of the project within Nevada. Consultation with the California Native American Heritage Commission and the Washoe Tribe of Nevada and California shall be undertaken for the portions of the project in California.  If the archaeologist, in consultation with the Nevada State Historic Preservation Officer, California Native American Heritage Commission, and Washoe Tribe of Nevada and California, determines that the find does not meet the PRC Section 21074 definition for tribal cultural resources, then construction may proceed. If the archaeologist determines that further information is needed to evaluate significance, the lead agency shall be notified and a data recovery plan shall be prepared.			
3.9 Floodplains	·					
Impact 3.9-1: 100-year flood hazard and floodplain impacts Alternatives B, C, and D would require the extension of the US 50 culvert over Edgewood Creek and the Lake Parkway culvert over Golf Course Creek. This expansion would result in an encroachment into the 100-year floodplain of both streams; however, compliance with the Douglas County Floodplain Development Permit would require that the encroachment would not result in an increase in the Base Flood Elevation and would not adversely affect the direction or velocity of flood waters.	Alt A, = NI The design features of Alternatives B, C, D, and E would avoid or minimize significant encroachment into the 100-year floodplain of any waterbody.	Alts A, E = NI Alts B, C, D = LTS	No avoidance, minimization, or mitigation measures are required to reduce impacts such that no additional mitigation measures are needed or feasible to implement for the purposes of NEPA or to a less-than-significant level for the purposes of CEQA and TRPA.	NA	Alts A, E = NI Alts B, C, D = LTS	

Resource Topics/Impacts	Environmental Consequer Impact Determinations (C before Mitigation (by Al	CEQA, TRPA)	Avoidance, Minimization, and/or Mitigation Measures		Environmental Consequences (NEPA)/ Impact Determinations (CEQA, TRPA) after Mitigation (by Alternative)		
	NEPA	CEQA/TRPA			NEPA	CEQA/TRPA	
Adv = Adverse B = Beneficial LTS = Less than significant MU =	mixed-use NA = Not applica	ble NAdv = Not	adverse NI = No impact PS = Potentially significant S = S	Significant	SU = Significant a	nd unavoidable	
3.10 Water Quality and Stormwater Runoff							
Impact 3.10-1: Potential for degradation of surface water quality due to construction activities  Alternatives B, C, and D would include construction and operational activities that could result in contaminants being carried into storm drains and adjacent surface waters.  Degradation of surface water quality could result from construction activities and pollutant loading in surface runoff.  Because TRPA, Lahontan RWQCB, and NDEP regulations are in place to minimize erosion and transport of sediment and other pollutants during construction, and appropriate project-specific measures would be defined to secure necessary permits and approvals, project-related impacts would be minimized and would not result in substantial adverse effects on water quality. Alternative E could require construction dewatering; however, compliance with Lahontan RWQCB, NDEP, and TRPA regulations would minimize the potential threat to water quality. Alternative A is the no build alternative and would not impact these resources.	Alt A = NI The design features of Alternatives B, C, D, and E would avoid or minimize the degradation of surface water quality from construction activities such that no additional mitigation measures are needed or feasible to implement.	Alt A = NI Alts B, C, D, E = LTS	No avoidance, minimization, or mitigation measures are required to reduce impacts such that no additional mitigation measures are needed or feasible to implement for the purposes of NEPA or to a less-than-significant level for the purposes of CEQA and TRPA.		NA	Alt A = NI Alts B, C, D, E = LTS	
Impact 3.10-2: Potential for degradation of surface water quality due to operational activities  TRPA, Lahontan RWQCB, and NDEP regulations require the installation and maintenance of water quality BMPs, which would minimize the potential water quality effects of the transportation improvements. Also, TRPA Code provisions would require fertilizer management and snow storage BMPs to prevent potential adverse effect from these activities. In addition, Alternative B, C, and D include several water quality improvements that would resolve preexisting detrimental conditions within the project site and add supplemental capacity to water quality treatment basins above required volumes. Alternative E would minimize the potential effects to	Alt A = NI The design features of Alternatives B, C, D, and E would avoid or minimize the degradation of surface water quality from operations such that no additional mitigation measures are needed or feasible to implement.	Alt A = NI Alts B, C, D = B Alt E = LTS	No avoidance, minimization, or mitigation measures are required to reduce impacts such that no additional mitigation measures are needed or feasible to implement for the purposes of NEPA or to a less-than-significant level for the purposes of CEQA and TRPA.		NA	Alt A = NI Alts B, C, D = B Alt E = LTS	

Table S-1 Summary of Resource Topics with Impacts and Avoidance, Minimization, and/or Mitigation Measures

Resource Topics/Impacts	Environmental Consequer Impact Determinations (C before Mitigation (by Al	EQA, TRPA)	Avoidance, Minimization, and/or Mitigation Measures	Environmental Consequences (NEPA)/ Impact Determinations (CEQA, TRPA) after Mitigation (by Alternative)		
	NEPA	CEQA/TRPA		NEPA	CEQA/TRPA	
Adv = Adverse B = Beneficial LTS = Less than significant MU :	mixed-use NA = Not applicate	ble NAdv = Not	adverse NI = No impact PS = Potentially significant S = S	Significant SU = Significant a	nd unavoidable	
water quality by implementing required stormwater infrastructure. Alternatives A is the no build alternative and would have no impact relative to these resources.						
Impact 3.10-3: Stormwater runoff Alternatives B, C, and D would create an increase in impervious surfaces: 5.47 to 7.62 acres for Alternative B; 1.06 acres for Alternative C; and 5.76 to 7.91 acres for Alternative D. The project would be required to comply with stringent SWRCB, Lahontan RWQCB, NDEP, and TRPA post-construction stormwater controls. Storage, infiltration, and treatment measures are required to minimize runoff flows and volumes and any stormwater discharge would be required to comply with Lahontan RWQCB, NDEP, and TRPA water quality standards and the Lake Tahoe TMDL. Because the implementation of these alternatives could require use of existing stormwater management infrastructure (Rocky Point stormwater easement parcels and Fern Road stormwater basins) for transportation improvements and/or mixed-use development, an impact on stormwater runoff management is recognized at this time, which would be mitigated by replacing affected facilities with equivalently or more effective stormwater infrastructure, as defined during detailed project design. Alternatives A and E would not result in changes to runoff volumes or stormwater infrastructure and would therefore have no impact relative to these resources.	Alts A, E = NI Mitigation Measure 3.10-3 have been incorporated into Alternatives B, C, and D to further reduce to the extent feasible the environmental consequences related to stormwater runoff.	Alts A, E = NI Alts B, C, D = S	Mitigation Measure 3.10-3: Protect functionality of Reeky PointExisting Stormwater Improvements  This mitigation measure applies to Alternatives B, C, and D transportation improvements and mixed-use development, including replacement housing, for the purposes of NEPA, CEQA, and TRPA.  The project proponent shall demonstrate that all Reeky Point stormwater improvements continue to meet the goals for which they were established. In the case of stormwater improvements purchased or constructed with CTC grant funds (such as the Rocky Point and Fern Road systems), this includes including meeting or exceeding 6.4 pounds of sediment reduction per State of California dollar spent on site improvements. If the functionality of the Rocky Point property and facilities improvements cannot be maintained, the project design would be modified to replace these facilities with land and infrastructure that is at least as effective as the current facilities, or more effective. In the event that any portion of the project encroaches on the existing City of South Lake Tahoe stormwater basins at Fern Road, these basins would be reconstructed in place or replaced in-kind within available right-of-way. The net result would be the maintenance of existing stormwater facilities or the replacement of affected facilities with equivalently or more effective stormwater management land and infrastructure. The specific location and design of the replacement infrastructure would be defined during detailed design development.	Alts A, E = NA Alts B, C, D = No additional mitigation measures would be needed or are feasible to implement.	Alts A, E = NI Alts B, C, D = LTS	

Table S-1 Summary of Resource Topics with	th Impacts and Avoidan	ce, Minimiz	ation, and/or Mitigation Measures			
Resource Topics/Impacts	Environmental Consequer Impact Determinations (C before Mitigation (by Al	EQA, TRPA)	Avoidance, Minimization, and/or Mitigation Measures	Impact D	Environmental Consequences (NEPA)/ Impact Determinations (CEQA, TRPA) after Mitigation (by Alternative)	
	NEPA	NEPA CEQA/TRPA		1	NEPA	CEQA/TRPA
Adv = Adverse B = Beneficial LTS = Less than significant MU =	mixed-use NA = Not applica	ole NAdv = Not	adverse NI = No impact PS = Potentially significant S = S	Significant S	SU = Significant a	nd unavoidable
Impact 3.10-4: Potential to affect groundwater through infiltration of polluted water or during excavation activities  Alternatives B, C, and D have the potential to affect groundwater through infiltration of polluted stormwater runoff in areas of shallow groundwater; however, this potential would be minimized through compliance with TRPA discharge limits and installation of water quality BMPs. Although Alternatives B, C, and D could involve excavation or construction activities that intercept groundwater, these activities would occur in accordance with TRPA Code requirements and would not alter the flow or direction of groundwater. Finally, although the project site is located near several drinking water wells, the land uses and activities proposed by the project present a minimal threat to these resources. Alternative E also has the potential to intercept groundwater during excavation activities; however, all excavation would occur in accordance with TRPA regulations and would not alter the flow or direction of groundwater. Alternative A is the no-build alternative and would have no impact on groundwater resources.	Alt A = NI The design features of Alternatives B, C, D, and E would avoid or minimize the effects on groundwater such that no additional mitigation measures are needed of feasible to implement.	Alt A = NI Alts B, C, D, E = LTS	No avoidance, minimization, or mitigation measures are required to reduce impacts such that no additional mitigation measures are needed or feasible to implement for the purposes of NEPA or to a less-than-significant level for the purposes of CEQA and TRPA.		NA	Alt A = NI Alts B, C, D, E = LTS
3.11 Geology, Soils, Land Capability, and Coverage						
Impact 3.11-1: Soil compaction and land coverage Implementation of Alternatives B, C, and D would result in an increase in land coverage within the project site limits: for Alternative B, between 5.47 and 7.62 acres; for Alternative C, 1.06 acres; and for Alternative D, between 5.76 and 7.91 acres. Because the project would comply with TRPA land coverage regulations, including mitigation of disturbances in land capability district (LCD) 1b at a ratio of 1.5:1, TRPA permit requirements (e.g., stormwater pollution prevention plan [SWPPP], BMPs), and (for mixed-use development, including replacement housing) transfer of excess allowable land coverage, there would be minimal potential to create an	Alts A, E = NI The design features of Alternatives B, C, and D would avoid or minimize the soil compaction and land coverage environmental consequences such that no additional mitigation measures are needed or feasible to implement.	Alts A, E = NI Alts B, C, D = LTS	No avoidance, minimization, or mitigation measures are required to reduce impacts such that no additional mitigation measures are needed or feasible to implement for the purposes of NEPA or to a less-than-significant level for the purposes of CEQA and TRPA.		NA	Alts A, E = NI Alts B, C, D = LTS

Table S-1 Summary of Resource Topics with Impacts and Avoidance, Minimization, and/or Mitigation Measures

Resource Topics/Impacts	Environmental Consequen Impact Determinations (C before Mitigation (by Al	EQA, TRPA)	Avoidance, Minimization, and/or Mitigation Measures	Environmental Consequences (NEF Impact Determinations (CEQA, TRI after Mitigation (by Alternative)	
	NEPA	CEQA/TRPA		NEPA	CEQA/TRPA
Adv = Adverse B = Beneficial LTS = Less than significant MU =	mixed-use NA = Not applical	ole NAdv = Not	adverse NI = No impact PS = Potentially significant S =	Significant SU = Significant a	nd unavoidable
adverse effect related to land coverage. Alternatives A and E would not result in changes to TRPA-related land coverage.					
Impact 3.11-2: Increased erosion and alteration of topography during construction  During construction, transportation improvements and replacement housing included in Alternatives B, C, D, and Alternative E would require ground disturbance and soil exposure, which could result in increased erosion and alteration of the existing topography. The total area of temporary and permanent disturbance (including areas that are currently developed or disturbed) would be 56.49 acres for Alternative B, 52.20 acres for Alternative C, 52.39 acres for Alternative D, and 0.79 acre for Alternative E. Because the project site is located in an urban environment, much of the project site has been developed or extensively disturbed. Topographic changes resulting from the project would be minimized and would be consistent with the existing urban environment. The potential for erosion and sediment movement would be minimized through compliance with Lahontan RWQCB and TRPA permit conditions and regulations. Alternative A would result in no changes to existing conditions related to erosion and alteration of topography.	Alt A = NI The design features of Alternatives B, C, D, and E would avoid or minimize the erosion and alteration of topography environmental consequences such that no additional mitigation measures are needed or feasible to implement.	Alt A = NI Alts B, C, D, E = LTS	No avoidance, minimization, or mitigation measures are required to reduce impacts such that no additional mitigation measures are needed or feasible to implement for the purposes of NEPA or to a less-than-significant level for the purposes of CEQA and TRPA.	NA	Alt A = NI Alts B, C, D, E = LTS
Impact 3.11-3: Exposure to strong seismic shaking, liquefaction, or seiche inundation hazards  The project site is located in a seismically-active area and contains soils that could be subject to liquefaction under saturated conditions. All transportation improvement components of Alternatives B, C, and D would be designed to meet Caltrans and NDOT seismic standards and state-specific, seismic design codes. The construction of the pedestrian bridge in Alternatives B, C, and D would require deep excavation and construction of footings in soils that could be	Alt A = NI The design features of Alternatives B, C, D, and E would avoid or minimize the potential risks due to seismic shaking, liquefaction, or seiche inundation hazards.	Alt A = NI Alts B, C, D, E = LTS	No avoidance, minimization, or mitigation measures are required to reduce impacts such that no additional mitigation measures are needed or feasible to implement for the purposes of NEPA or to a less-than-significant level for the purposes of CEQA and TRPA.	NA	Alt A = NI Alts B, C, D, E = LTS

Table S-1 Summary of Resource Topics wi	th Impacts and Avoidar	ice, Minimiza	ation, and/or Mitiga	tion Measures			
Resource Topics/Impacts	Environmental Consequer Impact Determinations (C before Mitigation (by A	CEQA, TRPA)	Avoidance, Minimization, and/or Mitigation Measures		Environmental Consequences (NEPA)/ Impact Determinations (CEQA, TRPA) after Mitigation (by Alternative)		
	NEPA	CEQA/TRPA			NEPA	CEQA/TRPA	
Adv = Adverse B = Beneficial LTS = Less than significant MU =	= mixed-use NA = Not applica	ble NAdv = Not	adverse NI = No impact	PS = Potentially significant S = S	Significant SU = Sign	ificant and unavoidable	
subject to liquefaction. These structures would be subject to rigorous highway safety design standards, which would minimize the potential for seismic hazards. Implementation of Alternatives B, C, and D transportation improvements would result in the displacement of housing units that are now outside of the inundation area of a seismically induced seiche wave. Implementation of Alternatives B, C, and D mixed-use development, including replacement housing, would also not have the potential to increase the exposure of people and property to inundation by a seismically-induced seiche wave, because the mixed-use sites are outside the inundation area. Alternative E would be subject to the same design standards described for Alternatives B, C, and D and would not alter the level of exposure to seiche hazards. Alternative A would not create new structures that would be exposed to seismic hazards.							
3.12 Hazards, Hazardous Materials, and Risk of Upset	T	I	T		T	T	
Impact 3.12-1: Expose people or the environment to hazards because of the routine storage, use, and transport of hazardous materials or from accidental release or upset Construction activities related to each of the build alternatives could involve the routine storage, use, and transport of hazardous materials typical of road and residential construction projects. Use of hazardous materials would occur in compliance with all local, state, and federal regulations.	Alt A = NI The design features of Alternatives B, C, D, and E would avoid or minimize the exposure of people or the environment to hazards such that no additional mitigation measures are needed or feasible to implement.	Alt A = NI Alts B, C, D, E = LTS	required to reduce impact mitigation measures are for the purposes of NEPA for the purposes of CEQA	needed or feasible to implement or to a less-than-significant level and TRPA.	NA	Alt A = NI Alts B, C, D, E = LTS	
Impact 3.12-2: Exposure to recognized environmental conditions  The transportation improvements could affect properties that are included on a list of hazardous materials sites. The project site is located in an area with a moderate to high potential for	Alt A = NI Mitigation Measures 3.12- 2a, 3.12-2b, 3.12-2c, and 3.12-2d have been incorporated into	Alt A = NI Alts B, C, D, E = PS	Mitigation Measure 3.12- asbestos-containing mate and lead-based paints an This mitigation would app improvements and mixed	erials, aerially deposited lead, nd coatings bly to the transportation	Alt A = NA Alts B, C, D, E = No additional mitigatio measures would be		

Resource Topics/Impacts		nental Consequer Determinations (C Mitigation (by Al	CEQA, TRPA)	Avoidance, Minimization, and/or Mitigation Measures		Environmental Consequences (NEPA)/ Impact Determinations (CEQA, TRPA) after Mitigation (by Alternative)		
		NEPA CEQA/TRP/					NEPA	CEQA/TRPA
Adv = Adverse B = Beneficial LTS = Less than significant I	1		ble NAdv = Not		PS = Potentially significant S = S	1		nd unavoidable
aturally-occurring radon gas, exposure to which has the otential to cause lung cancer. In addition, aerial deposited and (ADL) could be present on and near roadway shoulders. Ithough the project incorporates best management practice voidance measures, and regulatory compliance, through construction of the project, it would be possible that previous nidentified contaminants, such as radon gas or ADL, could isturbed or encountered by residents and workers. Although the project incorporates best management practices, evoidance measures, and regulatory compliance to reduce to otential for adverse effects, there is a risk of exposure of esidents to radon gas and workers to ADL or other unknown contaminants.	to further r extent feas for exposu environme	s B, C, D, and E educe to the sible the potential re to recognized intal conditions.		for the purposes of NEPA  1. Demolition of buildings asbestos and lead-bas specialized procedures appropriately certified applicable regulations. intended for demolition 1980 shall be surveyed constructed before 199. Prior to construction, a the project site shall be contamination because coatings containing lead conducted consistent on NDMV requirements.  2. A demolition plan shall with positive results for specify how to approprict dispose of the asbesto while meeting all requirements and the plan shall be prepared (consistent with the reculture).  Prior to demolition, the the written plan to the Environmental Manage Division, describing the including, but not limited.	s and roadways containing ed materials shall require s and equipment, and personnel, as detailed in the Buildings and roadways n that were constructed before d for asbestos, while those 71 shall be surveyed for lead. Il existing road right-of-ways in	needed o implemen	r are feasible to	

(b) remove plumbing fixtures known to contain, or potentially containing, hazardous materials;

Table S-1	Summ	ary of Resource Topic	s wit	h Impact	s and Avoidan	ce, Minimiz	ation, and/or Mitigat	ion Measures			
Resource Topics/Impacts				Environmental Consequences (NEPA)/ Impact Determinations (CEQA, TRPA) before Mitigation (by Alternative)			Avoidance, Minimization, and/or Mitigation Measures		Environmental Consequences (NEPA)/ Impact Determinations (CEQA, TRPA) after Mitigation (by Alternative)		
				NEPA		CEQA/TRPA				NEPA	CEQA/TRPA
Adv = Adverse	B = Beneficial	LTS = Less than significant	MU =	mixed-use	NA = Not applicat	ole NAdv = Not	adverse NI = No impact	PS = Potentially significant S = S	ignificant	SU = Significant ar	nd unavoidable
							(d) package contaminat (e) identify disposal site wastes. Demolition shall been accepted by the E Environmental Manage and all potentially hazar removed to the satisfac Environmental Health D applicant shall also prov the County that lead-bas and abatement, as appl in accordance with appl regulations. Lead abate of lead-contaminated so concentrations greater to 3. Prior to ground disturba Tahoe Tom's Gas Statio collected from within the footprint along Lake Tal at this location to evalua petroleum hydrocarbon 1998. Soil sampling wo can be provided to the of Environmental Mana Division that demonstrat exposure to petroleum construction activities. I Bbased on the results o with standard industry p shall be developed and	than 400 parts per million).  nce of any soils adjacent to the in facility, soil samples shall be ele proposed construction noe Boulevard and Park Avenue at ele potential impacts from a release that was discovered in a release that			

Resource Topics/Impacts		Impact	nental Conseque Determinations (G Mitigation (by A	CEQA, TRPA)	Avoidance, Minimization, and/or Mitigation Measures	Environmental Consequences (NEPA)/ Impact Determinations (CEQA, TRPA) after Mitigation (by Alternative)		
			NEPA			ı	NEPA	CEQA/TRPA
Adv = Adverse B = Beneficial	LTS = Less than significant MU	J = mixed-use	NA = Not applica	ble NAdv = Not	adverse NI = No impact PS = Potentially significant S = S	Significant	SU = Significant a	nd unavoidable
					Mitigation Measure 3.12-2b: Prepare a construction hazardous materials management plan  This mitigation would apply to the transportation improvements and mixed-use development sites associated with Alternatives B, C, and D, and Alternative E for the purposes of NEPA, CEQA, and TRPA.  A construction hazardous materials management plan shall be developed to address procedures for handling, storage, and disposal of previously unidentified potentially contaminated soil, contaminated groundwater, lead-based paint, and asbestos-containing materials that may be encountered during project construction activities. The construction hazardous materials management plan shall include provisions for agency notification, managing contaminated materials, sampling and analytical requirements, and disposal procedures. The plan shall include identification of construction site BMPs to minimize the potential for water quality impacts.  The construction hazardous materials management plan shall cover, at a minimum, the following:  ■ petroleum hydrocarbon-contaminated soils and/or groundwater that may be encountered during project construction activities in areas where construction depths exceed 2 feet below ground surface (bgs) in the vicinity of the recognized environmental conditions (RECs) described above;  ■ soils identified by the ADL surveys as being contaminated by lead within survey area ROWs;  ■ materials identified by the lead-based paint and asbestos-containing materials within bridge, pipe, and building materials;			

Resource Topics/Impacts			Impact	nental Conseque Determinations ( e Mitigation (by A	CEQA, TRPA)	Avoidance, Minimization, and/or Mitigation Measures		Environmental Consequences (NEPA)/ Impact Determinations (CEQA, TRPA) after Mitigation (by Alternative)		
				NEPA C				NEPA (		CEQA/TRPA
Adv = Adverse	B = Beneficial	LTS = Less than significant	MU = mixed-use	NA = Not applica	ble NAdv = Not	adverse NI = No impact	PS = Potentially significant S = S	ignificant Sl	J = Significant	and unavoidable
						ASTs) that are affected information on assess of contaminated soils. The plan shall include proof potential hazardous may or groundwater is encount including the applicable recomprehensive Environm and Liability Act and CCR wastes.  Mitigation Measure 3.12-2 and implement radon-resion This mitigation would applicate associated with Alter purposes of NEPA, CEQA, Prior to the occupancy of the three future mixed-use applicant or construction in radon contractor to determ the 4 pCi/L threshold, where radon in the affected resion threshold. Methods may in the soil suction radon reduinstallation of a vent pipe from beneath the house a Additionally, passive ventil assure 4 pCi/L thresholds contractor shall develop ci	storage facilities (USTs or d by project construction; and sment and potential handing found during relocation. cedures to stop work if evidence aterials or contamination of soils tered during construction, equirements of the ental Response, Compensation, Title 22 regarding the disposal of the example of the ental Response, Compensation at the construction techniques by to mixed-use development entities B, C, and D for the ental TRPA. Thousing units associated with the development sites, the manager shall retain a licensed mine if radon is detected beyond the encessary. If the amount of shed threshold, the applicant on contractor to reduce the dences to below the established include, but are not limited to, uction system, which entails the system and fan that pull radon			

Table S-1 Summary of Resource Topics with Impacts and Avoidance, Minimization, and/or Mitigation Measures Environmental Consequences (NEPA)/ Environmental Consequences (NEPA)/ Impact Determinations (CEQA, TRPA) Impact Determinations (CEQA, TRPA) Resource Topics/Impacts Avoidance, Minimization, and/or Mitigation Measures before Mitigation (by Alternative) after Mitigation (by Alternative) NEPA NEPA CEQA/TRPA CEQA/TRPA NA = Not applicable NAdv = Not adverse PS = Potentially significant S = Significant SU = Significant and unavoidable Adv = Adverse B = Beneficial LTS = Less than significant MU = mixed-use NI = No impact be installed in each residence, as well as the radon monitoring and reduction system, if required. The property disclosure statements shall indicate that the site is within an area with a moderate potential for indoor radon levels. Mitigation Measure 3.12-2d: Conduct screening for VECs and, if necessary, conduct sampling and develop and implement remediation measures This mitigation would apply to the mixed-use development sites associated with Alternatives B, C, and D for the purposes of NEPA, CEQA, and TRPA. Prior to ground disturbance on any parcel intended for human occupancy, the applicant or construction manager shall retain an Environmental Professional as defined in 40 CFR Section 312.10 to perform a screening-level VEC evaluation based on the type of facility, information regarding the type of contaminant and groundwater flow, and the distance from the contaminant to the property to determine whether further study and sampling is warranted. If recommended by the screening, sampling shall be designed and conducted in coordination with DTSC and the CUPA, as appropriate. Based on the results of the sampling, and consistent with standard industry practice, remediation measures shall be developed and implemented to the satisfaction of the appropriate approval agency before building occupancy. Impact 3.12-3: Exposure of people or structures to a significant | Alts A, E = NI Alts A. E = NI NA Alts A. E = NI No avoidance, minimization, or mitigation measures are risk of loss, injury, or death involving wildfires The design features of Alts B. C. D = required to reduce impacts such that no additional Alts B. C. D = Implementation of all of the build alternatives would result in Alternatives B. C. and D LTS mitigation measures are needed or feasible to implement LTS construction activities associated with the proposed would avoid or minimize for the purposes of NEPA or to a less-than-significant level transportation improvements and mixed-use development, the potential to increase for the purposes of CEQA and TRPA. including replacement housing. There would be a temporary, exposure of people or

structures to wildland fire.

elevated risk of accidental ignition of a wildland fire, because of

Table S-1 Summary of Resource Topics with	th Impacts and Avoidar	ice, Minimiz	ation, and/or Mitigation Measures			
Resource Topics/Impacts	Environmental Consequer Impact Determinations (C before Mitigation (by A	CEQA, TRPA)	Avoidance, Minimization, and/or Mitigation Measures	Environmental Consequences (NEPA)/ Impact Determinations (CEQA, TRPA) after Mitigation (by Alternative)		
	NEPA	CEQA/TRPA		NEPA	CEQA/TRPA	
Adv = Adverse B = Beneficial LTS = Less than significant MU =	mixed-use NA = Not applica	ble NAdv = Not	adverse NI = No impact PS = Potentially significant S =	Significant SU = Significant a	and unavoidable	
increased construction activity in a forested area that has a moderate to very high fire hazard; however, standard construction practices include provisions to avoid ignitions, so the probability of starting a wildland fire would be very low. Implementation of Alternatives B, C, and D also includes three mixed-use development sites, one or more of which could provide replacement housing as well as other commercial uses (e.g., retail, restaurant). The mixed-use development could be exposed to potential risk of wildfire because of the siting of mixed-use development within an area containing very high risk of wildfire.  3.13 Air Quality						
		I	I			
Impact 3.13-1: Short-term, construction-generated emissions of criteria air pollutants and precursors  Construction of Alternatives B, C, D, and E would not exceed EDCAQMD's ROG threshold. Construction of Alternatives B, C, and D would exceed EDCAQMD's NO <sub>X</sub> threshold, and therefore CO, exhaust PM <sub>10</sub> , and PM <sub>2.5</sub> emissions could be significant. Construction of Alternative E would not exceed EDCAQMD's NO <sub>X</sub> or ROGCO threshold and therefore exhaust emissions would not be significant. All build alternatives (Alternatives B through E) could result in excessive fugitive dust emissions. In addition to construction associated with the roadwaytransportation improvements, construction emissions related to the potential future mixed-use development sites for Alternatives B, C, and D could occur sometime in the futurewould also occur. The mixed-use development would begin prior to the transportation improvements in California but may occur simultaneously with transportation improvements occurring in Nevada. Emissions from the mixed-use developments were evaluated separately and in combination with the construction activities for the transportation	Alt A = NI Mitigation Measures 3.13- 1a and 3.13-1b have been incorporated into Alternatives B, C, D, and E to further reduce to the extent feasible short-term construction-generated emissions of criteria air pollutants and precursors.	Alt A = NI Alts B, C, D, E = S	Mitigation Measure 3.13-1a: Reduce short-term construction-related NOx emissions  This mitigation would apply to Alternatives B, C, and D transportation improvements and mixed-use developments sites for purposes of NEPA, CEQA, and TRPA.  Measures that Apply to the Transportation Improvements  If the chosen alternative does not include development of the mixed-use sites, Ffor all construction activities, the project proponent shall ensure that construction contractors comply with the following on-site construction measures to reduce emissions of NOx:  ✓ The prime construction contractor shall submit to EDCAQMD a comprehensive inventory (e.g., make, model, year, emission rating) of all the heavy-duty off-road equipment (50 horsepower of greater) that would be used for 40 or more hours, in aggregate, during a construction season. If any new equipment is added after submission of the inventory, the prime contractor shall contact EDCAQMD before the new equipment is used. At least three business	needed or are feasible to implement.	Alt A = NI Alts B, C, D, E = LTS	

Table S-1 Summary of Resource Topics with Impacts and Avoidance, Minimization, and/or Mitigation Measures Environmental Consequences (NEPA)/ Environmental Consequences (NEPA)/ Impact Determinations (CEQA, TRPA) Impact Determinations (CEQA, TRPA) Resource Topics/Impacts Avoidance, Minimization, and/or Mitigation Measures before Mitigation (by Alternative) after Mitigation (by Alternative) NEPA NEPA CEQA/TRPA CEQA/TRPA NA = Not applicable NAdv = Not adverse PS = Potentially significant S = Significant SU = Significant and unavoidable Adv = Adverse B = Beneficial LTS = Less than significant MU = mixed-use NI = No impact improvements. Construction associated with redeveloping one days before the use of subject heavy-duty off-road equipment, the project representative shall provide or more of the mixed-use development sites alone with EDCAOMD with the anticipated construction Alternatives B, C, and D would not exceed EDCAOMD's thresholds for NOx. ROG. or CO. but could result in excessive timeline including start date, name, and phone number of the property owner, project manager, fugitive dust emissions and in combination with the and onsite foreman. transportation improvements would exceed EDCAQMD's ▲ Before approval of Grading Permits, the thresholds for NOX, and therefore CO, exhaust PM10, and construction contractor shall submit for EDCAQMD PM2.5 could be significant. Excessive fugitive dust emissions approval, a written calculation demonstrating that could occur during construction of the mixed-use sites alone the heavy-duty (> 50 horsepower) off-road vehicles and in combination with the transportation improvements. to be used in the construction project, including owned, leased, and subcontractor vehicles, will achieve a project wide fleet-average 20 percent reduction in NO<sub>x</sub> emissions as compared to ARB statewide fleet average emissions. Acceptable options for reducing emissions may include use of late model engines, low-emission diesel products, alternative fuels, engine retrofit technology, aftertreatment products, and/or other options as they become available. The calculation shall be provided using EDCAQMD's Construction Mitigation Calculator. Measures that Apply to the Mixed-Use Development If the chosen alternative would include development of the mixed-use sites and anticipated construction timing would not coincide with construction activities associated with US 50 transportation improvements, the project proponent shall ensure that construction contractors comply with the following on-site construction measures to reduce emissions of NOx: ▲ All measures as discussed above for the transportation improvements, but shall achieve a project wide fleet average 25 percent reduction in

Resource	Topics/Impacts	Impact I	ental Conseque Determinations ( Mitigation (by A	CEQA, TRPA)	Avoidance, Minimization, and/or Mitigation Measures	Impact	Determination	equences (NEPA)/ ons (CEQA, TRPA) by Alternative)
			NEPA	CEQA/TRPA			NEPA	
Adv = Adverse B = Beneficia	LTS = Less than significant N	/IU = mixed-use	NA = Not applica	ble NAdv = Not	adverse NI = No impact PS = Potentially significant S =	Significant	SU = Significa	ant and unavoidable
					NOx emissions as compared to ARB statewide fleet average emissions.  If the chosen alternative would include development of the mixed-use sites and anticipated construction timing could potentially coincide with construction activities associated with US 50 transportation improvements, the project proponent shall ensure that construction contractors comply with the following onsite construction measures to reduce emissions of NOx:  ✓ All measures as discussed above for the scenario for the transportation improvements, but shall achieve a project wide fleet average 60 percent reduction in NOx emissions as compared to ARB statewide fleet average emissions.  ✓ To achieve a 60 percent reduction in NOx emissions, the use of US EPA-approved Tier 3 and Tier 4 engines would be required. Any combination of said engines may be used so as the fleet average emissions are reduced by a minimum of 60 percent as compared to the ARB statewide fleet average.  Mitigation Measure 3.13-1b: Reduce short-term construction-related fugitive dust (PM10 and PM 2.5)  This mitigation would apply to Alternatives B, C, and D, transportation improvements and mixed-use development sites, and Alternative E for the purposes of NEPA, CEQA, and TRPA.  To reduce fugitive dust emissions during all construction activities involving earth-moving activities, the prime construction contractor shall implement all available fugitive dust control measures as indicated in Table C.4 and C.5 (Table 3.13-8) in Appendix C-1 of the El Dorado County Air Pollution Control District CEQA Guide (2002) and included below (See Attachment 1 to Table S-1).			

Table S-1 Summary of Resource Topics with Impacts and Avoidance, Minimization, and/or Mitigation Measures

Resource Topics/Impacts	Environmental Consequer Impact Determinations (C before Mitigation (by Al	EQA, TRPA)	Avoidance, Minimization, and/or Mitigation Measures	Environmental Conseque Impact Determinations ( after Mitigation (by A	(CEQA, TRPA)
	NEPA	CEQA/TRPA		NEPA	CEQA/TRPA
Adv = Adverse B = Beneficial LTS = Less than significant MU =	mixed-use NA = Not applica	ble NAdv = Not	adverse NI = No impact PS = Potentially significant S = S	Significant SU = Significant a	nd unavoidable
Impact 3.13-2: Consistency with air quality plans and regional transportation conformity  The US Department of Transportation (DOT) made a CAA conformity determination for the TMPO's 2012 RTP/SCS (i.e., Mobility 2035) on January 28, 2013 (FHWA 2013). The 2015 Federal Transportation Improvement Program is consistent with the transportation system and financial plan described in the most recent amendment to the Mobility 2035 and was adopted by TRPA and TMPO on December 12, 2012 (TMPO and TRPA 2012). The 2015 FTIP met all air quality conformity requirements when approved. The design concept and scope of Alternatives B, C, and D are consistent with the project description in the applicable RTP/SCS and FTIP. Although Alternative E would not be consistent with the design concept and scope described in the RTP/SCS, this alternative would not increase regional VMT. Therefore, implementation of Alternatives B, C, D, and E would be consistent with the assumptions in the regional emissions analysis in the RTP and would conform to the SIP and meet Federal Conformity Requirements. There would be no regional increase in mobile-source emissions and the region would continue to conform to applicable air quality plans.	Alt A = NI Alternatives B, C, D, and E would avoid an adverse effect on air quality and are consistent with air quality plans and regional transportation conformity such that no additional mitigation measures are needed or feasible to implement.	Alt A = NI Alts B, C, D, E = LTS	No avoidance, minimization, or mitigation measures are required to reduce impacts such that no additional mitigation measures are needed or feasible to implement for the purposes of NEPA or to a less-than-significant level for the purposes of CEQA and TRPA.	NA	Alt A = NI Alts B, C, D, E = LTS
Impact 3.13-3: Project-level transportation conformity with respect to localized, long-term mobile-source carbon monoxide emissions  Though implementation of all of the build alternatives (Alternatives B through E) and the future potential mixed-use developments, including replacement housing, associated with Alternatives B, C, and D would result in changes to the roadway network and traffic patterns in the study area, implementation of any of the alternatives with or without the mixed-use developments would not result in increases in traffic such that quantitative screening criteria for local CO emissions would be	The design features of Alternatives A, B, C, D, and E would avoid or minimize localized, long-term mobile-source carbon monoxide such that project-level conformity is met and no additional mitigation measures are needed or feasible to implement.	Alts A, B, C, D, E, = LTS	No avoidance, minimization, or mitigation measures are required to reduce impacts such that no additional mitigation measures are needed or feasible to implement for the purposes of NEPA or to a less-than-significant level for the purposes of CEQA and TRPA.	NA	Alts A, B, C, D, E, = LTS

Table S-1 Summary of Resource Topics with Impacts and Avoidance, Minimization, and/or Mitigation Measures

Resource Topics/Impacts	Environmental Consequer Impact Determinations (C before Mitigation (by Al	EQA, TRPA)	Avoidance, Minimization, and/or Mitigation Measures	Environmental Conseque Impact Determinations ( after Mitigation (by Al	(CEQA, TRPA)
	NEPA	CEQA/TRPA		NEPA	CEQA/TRPA
Adv = Adverse B = Beneficial LTS = Less than significant MU =	mixed-use NA = Not applical	ole NAdv = Not	adverse NI = No impact PS = Potentially significant S = S	Significant SU = Significant a	nd unavoidable
triggered during project operations. Implementation of any of the alternatives, including Alternative $A_7$ and associated mixed-use developments sites, where applicable, would not result in increased concentrations of CO that would expose sensitive receptors to unhealthy levels.					
Impact 3.13-4: Exposure of sensitive receptors to Mobile Source Air Toxics/Toxic Air Contaminants  Construction-related activities would result in short-term project-generated emissions of diesel PM under all build alternatives. However, construction would be relatively short in duration (i.e., up to 3 years), would not occur in the same location for extended periods of time, and with incorporated mitigation exhaust emissions would not be significant. As such, construction activities associated with Alternatives B, C, D, and E, with or without the mixed use development sites, transportation improvements and mixed-use development, including replacement housing, would not expose sensitive receptors to excessive levels of MSATs/TACs. In accordance with FHWA and Caltrans guidance, projects that do not result in more than 140,000 AADT have a low potential to result in impacts from MSAT. Further, Gguidance provided by ARB indicates that elevated health risks from operational exposure to diesel exhaust is associated primarily with high volume roadways of 100,000 ADT or more. Implementation of Alternatives B, C, D, and E would result in less than 40,000 ADT during the summer peak season for all affected roadway segments. Therefore, implementation of Alternatives B, C, D, and E is not anticipated to result in a significant health risk impact to sensitive receptors in the study area. Implementation of Alternative A would not result in any new sensitive receptors placed in close proximity to existing sources of MSAT/TAC emissions and no sources of MSAT/TAC	The design features of Alternatives A, B, C, D, and E would avoid or minimize the exposure of sensitive receptors to air toxics such that no additional mitigation measures are needed or feasible to implement.	Alts A, B, C, D, E, = LTS	No avoidance, minimization, or mitigation measures are required to reduce impacts such that no additional mitigation measures are needed or feasible to implement for the purposes of NEPA or to a less-than-significant level for the purposes of CEQA and TRPA.	NA	Alts A, B, C, D, E, = LTS

Resource Topics/Impacts	Environmental Consequer Impact Determinations (C before Mitigation (by A	CEQA, TRPA)	Avoidance, Minimization, and/or Mitigation Measures	Environmental Consequences (NE Impact Determinations (CEQA, TF after Mitigation (by Alternative		
	NEPA	CEQA/TRPA		NEPA	CEQA/TRPA	
Adv = Adverse B = Beneficial LTS = Less than significant MU =	mixed-use NA = Not applica	ble NAdv = Not	adverse $NI = No impact$ $PS = Potentially significant$ $S = S$	ignificant SU = Significan	t and unavoidable	
emissions would be placed in close proximity to sensitive land uses.						
3.14 Greenhouse Gas Emissions and Climate Change						
Impact 3.14-1: GHG emissions and consistency with the Regional Transportation Plan Implementation of Alternatives B, C, and D would result in realignment of US 50 and community revitalization that would be consistent with implementation of the RTP/SCS, which aims to achieve regional VMT (and associated GHG emissions) reduction targets. Therefore, Alternatives B, C, and D would help implement the RTP's impact on regional VMT and related GHG emissions. There would be nominal construction-related GHG emissions of less than 1,100 MTCO <sub>2</sub> e/year and 660 MTCO <sub>2</sub> e/year (2030 adjusted threshold) for all the build alternatives. Implementation of Alternative A would not support the revitalization of the tourist core; it would retain the existing roadway system as is and existing traffic conditions, including existing levels of congestion and traffic flow but would not result in an increase in GHG emissions relative to existing conditions. For Alternative E, the existing roadway alignment would remain the same with separation of pedestrians on an elevated structure. It would not support revitalization in the tourist core as effectively as the realignment alternatives and the through-traffic trip length on US 50 would be unchanged as would VMT and related GHG emissions.	The design features of Alternatives A, B, C, D, and E would avoid or minimize GHG emissions such that no additional mitigation measures are needed or feasible to implement.	Alts B, C, D = B Alts A, E = LTS	No avoidance, minimization, or mitigation measures are required to reduce impacts such that no additional mitigation measures are needed or feasible to implement for the purposes of NEPA or to a less-than-significant level for the purposes of CEQA and TRPA.	NA	Alts B, C, D = B Alts A, E = LTS	
Impact 3.14-2: Vulnerability to climate change risks Climate change is expected to result in a variety of effects in the study area including increased frequency and intensity of wildfires; changes to timing and intensity of precipitation resulting in increased risk from landslides associated with ground saturation, increased stormwater runoff, and increased intensity of storm events that result in increased snow loading and high winds. However, there are numerous programs and	Alt A = NI The design features of Alternatives B, C, D, and E would avoid or minimize vulnerability to climate change risks such that no additional mitigation	Alt A = NI Alts B, C, D, Alt E = LTS	No avoidance, minimization, or mitigation measures are required to reduce impacts such that no additional mitigation measures are needed or feasible to implement for the purposes of NEPA or to a less-than-significant level for the purposes of CEQA and TRPA.	NA	Alt A = NI Alts B, C, D, Alt E = LTS	

Resource Topics/Impacts	Environmental Conseque Impact Determinations ( before Mitigation (by A	CEQA, TRPA)	Avoidance, Minimization, and/or Mitigation Measures	Environmental Consequer Impact Determinations ( after Mitigation (by Al	CEQA, TRPA)
	NEPA	CEQA/TRPA		NEPA	CEQA/TRPA
Adv = Adverse B = Beneficial LTS = Less than significant MU =	mixed-use NA = Not applica	ble NAdv = Not	adverse NI = No impact PS = Potentially significant S = S	ignificant SU = Significant a	nd unavoidable
policies in place, as well as design measures that would protect against these climate change risks.	measures are needed or feasible to implement.				
3.15 Noise and Vibration					
Impact 3.15-1: Short-term construction noise levels  Alternative A would not include any noise-generating construction or demolition activity. Construction and demolition activity that would occur with the Alternatives B, C, and D transportation improvements and replacement housing at one or more of the mixed-use development sites would take place during the less noise-sensitive time of day and comply with the requirements of TRPA's Best Construction Practices Policy for the Minimization of Exposure to Construction-Generated Noise and Ground Vibration. Alternative E would include construction activity during noise-sensitive evening nighttime hours that could result in exceedances of applicable TRPA land use-based noise thresholds at noise sensitive receptors, as well as exceedances of interior noise standards at nearby hotels and residences.	Alt A = NI The design features of Alternatives B, C, and D would avoid or minimize the impacts related to short-term construction noise such that no additional mitigation measures are needed or feasible to implement; Mitigation Measure 3.15-1 has been incorporated into Alternative E to further reduce to the extent feasible adverse construction-related noise.	Alt A = NI Alt B, C, D = LTS Alt E = S	Mitigation Measure 3.15-1: Implement measures to reduce exposure of sensitive receptors to noise generated by nighttime construction activity  The following noise abatement measures would apply for Alternative E only for the purposes of NEPA, CEQA, and TRPA.  The project proponent shall implement the following measures to reduce the level of construction noise exposure during the evening and nighttime hours between 6:30 p.m. and 8:00 a.m. The measures are in addition to the measures already required by TRPA's Best Construction Practices Policy for the Minimization of Exposure to Construction-Generated Noise and Ground Vibration (TRPA [no date]a:6; TRPA [no date]b:4 to 5).  ✓ No noise-generating construction activity shall be performed at night unless necessary to minimize traffic conflicts.  ✓ Designate a disturbance coordinator and post that person's telephone number conspicuously around all construction sites and provide to nearby residences. The disturbance coordinator shall receive all public complaints and be responsible for determining the cause of the complaint and implementing any feasible measures to alleviate the problem.  ✓ Provide advanced notice to owners of all residential land uses, tourist accommodations, and commercial land uses located within 1,110 feet where nighttime construction activity would take place. This noticing shall inform the recipients of	Alts A, B, C, D = NA Alt E = Mitigation Measure 3.15-1 has been incorporated into Alternative E, but there are no other feasible mitigation, avoidance, or minimization measures that could further reduce to the extent feasible the environmental consequences related to short-term construction noise.	Alt A = NI Alt B, C, D = LTS Alt E = SU

Table S-1 Summary of Resource Topics with Impacts and Avoidance, Minimization, and/or Mitigation Measures Environmental Consequences (NEPA)/ Environmental Consequences (NEPA)/ Impact Determinations (CEQA, TRPA) Impact Determinations (CEQA, TRPA) Resource Topics/Impacts Avoidance, Minimization, and/or Mitigation Measures before Mitigation (by Alternative) after Mitigation (by Alternative) **NEPA** CEQA/TRPA NEPA CEQA/TRPA LTS = Less than significant MU = mixed-use NA = Not applicable NAdv = Not adverse PS = Potentially significant S = Significant SU = Significant and unavoidable Adv = Adverse B = Beneficial NI = No impact when and where nighttime construction would occur and the types of measures being implemented to lessen the impact at potentially affected receptors. This noticing shall also provide the contact information for the designated disturbance coordinator. ▲ Place temporary noise barriers or noise curtains as close to the noise source or receptor as possible such that it will break the line of sight between the source and receptor. ▲ Coordinating with owners of all tourist accommodation units within this distance to limit nighttime construction activity during those times of year and days of the week when tourist occupancy is the lowest, to the extent feasible. ▲ At equipment staging areas used to support nighttime construction activity, locate all equipment as far as possible from nearby noise-sensitive receptors. Temporary noise barriers shall be placed at these equipment staging areas to shield nearby noise-sensitive receptors from excessive noise generated at staging areas. Prohibit backup alarms on all trucks and equipment used during nighttime activity and provide an alternate warning system, such as a flagman or radar-based alarm, which is compliant with state regulations. Alternatively, use back up alarms that are programed to generate noise levels no more than 10 dB louder than background noise levels. ▲ Arrival of trucks hauling construction materials and equipment to staging areas and construction sites shall occur only between the hours of between 8:00 a.m. and 6:30 p.m. Departure of trucks hauling away debris from staging areas and construction sites shall also occur only between the

Table S-1 Summary of Resource Topics wi	th Impacts and Avoidan	nce, Minimiz	ation, and/or Mitigation Measures		
Resource Topics/Impacts	Environmental Consequer Impact Determinations (C before Mitigation (by Al	CEQA, TRPA)	Avoidance, Minimization, and/or Mitigation Measures	Environmental Conseque Impact Determinations ( after Mitigation (by A	(CEQA, TRPA)
	NEPA	CEQA/TRPA		NEPA	CEQA/TRPA
Adv = Adverse B = Beneficial LTS = Less than significant MU :	= mixed-use NA = Not applica	ble NAdv = Not	adverse NI = No impact PS = Potentially significant S =	Significant SU = Significant a	and unavoidable
			hours of between 8:00 a.m. and 6:30 p.m. This requirement shall be provided to all haulers at the time of the initial hauling request.  ■ Offer hotel accommodations to residents who would temporarily be exposed to interior noise levels that exceed the interior noise standard of 45 CNEL. Alternative overnight accommodations should be in a location that is not impacted by construction noise.		
Impact 3.15-2: Ground vibration during construction Alternative A would not include any construction or demolition activity that generates ground vibration. Pile driving activity performed during construction of the pedestrian bridge associated with the Alternative B, C, and D transportation improvements along with construction of one or more of the mixed-use development sites could expose nearby buildings to ground vibration levels that exceed the Federal Transit Administration's (FTA) vibration 80-VdB standard for human response at residential land uses. Pile driving activity performed during construction of the Skywalk under Alternative E could expose nearby buildings and structures to ground vibration levels that exceed FTA's vibration standard of 0.20 in/sec PPV for structural damage and FTA's vibration standard of 80 VdB for human response at residential land uses.	Alt A = NI Mitigation Measure 3.15- 2a has been incorporated into Alternatives B, C, and D, and Mitigation Measure 3.15-2b has been incorporated into Alternative E to further reduce to the extend feasible adverse construction-related ground vibration.	Alt A = NI Alts B, C, D, E = S	Mitigation Measure 3.15-2a: Implement measures to reduce levels of ground vibration to limit the level of human annoyance  The following noise abatement measures would apply to the Alternative B, C, and D transportation improvements for the purposes of NEPA, CEQA, and TRPA.  The project proponent shall require the following measures be implemented for all pile driving activity, if required, related to construction of the pedestrian bridge:  ✓ All necessary piles shall be driven with sonic pile drivers instead of impact pile drivers;  ✓ To further reduce pile-driving ground vibration impacts, holes shall be predrilled to the maximum feasible depth. This would reduce the number of blows and/or the amount of time required to seat the pile, and would concentrate the pile-driving activity closer to the ground where noise can be attenuated more effectively;  ✓ Pile driving, earth moving, and ground-disturbance activities shall be phased so as not to occur simultaneously in areas close to off-site sensitive receptors. The total vibration level produced could be substantially less when each vibration source is operated separately; and	Alt A = NI Alts B, C, D = No additional mitigation measures would be needed or are feasible to implement. Alt E = Mitigation Measure 3.15-2b has been incorporated into Alternative E, but there are no other feasible mitigation, avoidance, or minimization measures that could further reduce to the extent feasible the environmental consequences related to ground vibration during construction.	Alt A = NI Alts B, C, D <del>, E</del> = <del>SULTS</del> Alt E = SU

Table S-1	Summ	nary of Resource Topic	s wit	h Impact	s and Avoidar	ice, Minimiz	ation, and/or Mitigati	on Measures			
	Resource Topics/Impacts				nental Consequer Determinations (C Mitigation (by A	CEQA, TRPA)	Avoidance, Minimization	and/or Mitigation Measures	Environmental Consequences (NEPA)/ Impact Determinations (CEQA, TRPA) after Mitigation (by Alternative)		
					NEPA	CEQA/TRPA			NEPA	CEQA/TRPA	
Adv = Adverse	B = Beneficial	LTS = Less than significant	MU =	mixed-use	NA = Not applica	ble NAdv = Not	adverse NI = No impact	PS = Potentially significant S = S	ignificant SU = Significant	and unavoidable	
							person's telephone nu the locations where pil performed. The disturb receive all public comp determining the cause implementing any feas problem. The contact i coordinator shall also all properties for which performed.  Mitigation Measure 3.15-2 reduce exposure of buildin levels of ground vibration t damage and to limit the let The following noise abaten Alternative E only for the pu TRPA.  The project proponent shal California-registered geote site-specific study of the ge proposed skywalk site. The propagation rate of ground into account local soil cond buildings, and other factors whether nearby structures structural damage from pil site. The study shall also de residential dwellings, touris commercial land uses wou	pance coordinator shall plaints and be responsible for of the complaint and sible measures to alleviate the information of the disturbance be provided to the owners of a pre-inspection survey is the implement measures to ge and other structures to that could result in structural wel of human annoyance ment measures would apply for urposes of NEPA, CEQA, and thire a qualified Nevada- and chinical engineer to perform extechnical conditions at the estudy shall determine the vibration in the area, taking ditions, the age of the nearby so the study shall determine and buildings could experience e driving activity at the skywalk			

Table S-1	Summ	ary of Resource Topics	with Impact	s and Avoida	nce, Minimiz	ation, and/or Mitigation Measures			
	Resource To	ppics/Impacts	Impact I	ental Conseque Determinations ( Mitigation (by A	CEQA, TRPA)	Avoidance, Minimization, and/or Mitigation Measures	Environmental Consequences (NEPA)/ Impact Determinations (CEQA, TRPA) after Mitigation (by Alternative)		
				NEPA CEQ				NEPA	CEQA/TRPA
Adv = Adverse	B = Beneficial	LTS = Less than significant	MU = mixed-use	NA = Not applica	able NAdv = Not	adverse $NI = No impact$ $PS = Potentially significant$ $S = S$	ignificant	SU = Significan	t and unavoidable
						The study shall also include a geotechnical inspection of all buildings and structures located within 100 feet of locations where impact pile driving would occur. The inspection shall document pre-existing conditions, including any pre-existing structural damage. The pre-inspection survey of the buildings shall be completed with the use of photographs, videotape, or visual inventory, and shall include inside and outside locations. All existing cracks in walls, floors, driveways shall be documented with sufficient detail for comparison during and upon completion of pile driving activities to determine whether new actual vibration damage has occurred. The results of both surveys shall be provided to the project proponent for review and acceptance of conclusions. Should damage occur during construction, construction operations shall be halted until the problem activity can be identified. Once identified, the problem and protect the adjacent buildings. Any damage to nearby buildings shall be repaired back to the pre-existing condition at the expense of the project proponent.  The study shall also identify site-specific measures to lessen the potential for structural damage and to reduce the potential for human response from ground vibration associated with construction of the skywalk and the project proponent shall require construction contractor(s) to implement the measures identified in the study. Such measures shall include, but are not limited to, the following:   All necessary piles shall be driven with sonic pile drivers instead of impact pile drivers, unless sonic			

Table S-1 Summary of Resource Topics with Impacts and Avoidance, Minimization, and/or Mitigation Measures Environmental Consequences (NEPA)/ Environmental Consequences (NEPA)/ Impact Determinations (CEQA, TRPA) Impact Determinations (CEQA, TRPA) Resource Topics/Impacts Avoidance, Minimization, and/or Mitigation Measures before Mitigation (by Alternative) after Mitigation (by Alternative) **NEPA** NEPA CEQA/TRPA CEQA/TRPA LTS = Less than significant MU = mixed-use NA = Not applicable NAdv = Not adverse NI = No impact PS = Potentially significant S = Significant SU = Significant and unavoidable Adv = Adverse B = Beneficial pile driving is determined to be infeasible by a qualified geotechnical engineer; ▲ To the extent feasible, project structures shall be designed so that impact-driven piles are placed a sufficient distance from nearby buildings and structures to minimize the potential to cause structural damage (e.g., 100 feet, assuming normal propagation conditions), and sonic-driven piles are placed at least 60 feet from nearby buildings and structures to minimize the potential to cause structural damage (e.g., 60 feet, assuming normal propagation conditions); ▲ To the extent feasible, project structures shall be designed so that impact-driven piles are placed a sufficient distance from residences and tourist accommodation units to minimize human response (e.g., 300 feet, assuming normal propagation conditions), and sonic-driven piles are placed a sufficient distance from nearby buildings and structures to minimize human response (e.g., 175 feet, assuming normal propagation conditions); ▲ To further reduce pile-driving ground vibration impacts, holes shall be predrilled to the maximum feasible depth. This would reduce the number of blows and/or the amount of time required to seat the pile, and would concentrate the pile-driving activity closer to the ground where noise can be attenuated more effectively: ■ Pile driving, earth moving, and ground-disturbance activities shall be phased so as not to occur simultaneously in areas close to off-site sensitive receptors. The total vibration level produced could be substantially less when each vibration source is operated separately;

Resource Topics/Impacts	Environmental Consequer Impact Determinations (C before Mitigation (by A	CEQA, TRPA)	Avoidance, Minimization	n, and/or Mitigation Measures	Environmental Conseque Impact Determinations ( after Mitigation (by A	(CEQA, TRPA)
	NEPA	CEQA/TRPA			NEPA	CEQA/TRPA
Adv = Adverse B = Beneficial LTS = Less than significant MU	= mixed-use NA = Not applica	ble NAdv = Not		PS = Potentially significant S = S	Significant SU = Significant a	nd unavoidable
			person's telephone not the skywalk construct residences. The distureceive all public comdetermining the causimplementing any feat problem. The contact coordinator shall also all properties for whice performed; and Provide advanced not land uses, tourist acc commercial land uses where impact pile drives and 175 feet of where sor place. This noticing shall also proticing shall also prot	nce coordinator and post that number conspicuously around tion site and provide to nearby rbance coordinator shall uplaints and be responsible for e of the complaint and sible measures to alleviate the information of the disturbance be provided to the owners of the a pre-inspection survey is tice to owners of all residential ommodations, and so located within 300 feet of ving would take place or within nic pile driving would take nall inform the recipients of driving would occur and the ing implemented to lessen the affected receptors. This ovide the contact information sturbance coordinator.		
Impact 3.15-3: Traffic noise exposure at existing receptors Alternative A would not result in changes to traffic noise levels along US 50 or local roadways.  With Alternatives B, C, and D the 65 CNEL contours along the realigned segments of US 50 would not extend more than 300 feet from the roadway edge for any of the alternatives. Therefore, the Environmental Threshold Carrying Capacity established by TRPA for the transportation corridor would not be exceeded with Alternatives B, C, and D.  With Alternatives B, C, and D one or more noise-sensitive receptors would be exposed to noise levels greater than the	Alt A = NI Mitigation Measures 3.15- 3a, 3-15-3b, and 3.15-3c have been incorporated into Alternatives B, C, and D, and Mitigation Measure 3.15-3d has been incorporated into Alternative E, to further reduce to the extent feasible the environmental consequences related to	Alt A = NI Alts B, C, D, E = S	reduction measures to reduction measures to reducted receptors The following noise abate the Alternative B transport use redevelopment sites that TRPA.  Performance Requirement	3a: Implement traffic noise duce traffic noise exposure at ment measures would apply to tation improvements and mixed-for the purposes of NEPA, CEQA, ats easures shall be implemented to	Alt A = NI Alt E = No additional mitigation measures would be needed or are feasible to implement. Alts B, C, D = Mitigation Measures 3.15-3a, 3.15- 3b, and 3.15-3c have been incorporated into Alternatives B, C, and D, respectively, but there are no other feasible	Alt A = NI Alts B, C, D = SU Alt E= LTS

Table S-1 Summary of Resource Topics with Impacts and Avoidance, Minimization, and/or Mitigation Measures Environmental Consequences (NEPA)/ Environmental Consequences (NEPA)/ Impact Determinations (CEQA, TRPA) Impact Determinations (CEQA, TRPA) Resource Topics/Impacts Avoidance, Minimization, and/or Mitigation Measures before Mitigation (by Alternative) after Mitigation (by Alternative) NEPA NEPA CEQA/TRPA CEQA/TRPA LTS = Less than significant MU = mixed-use PS = Potentially significant S = Significant SU = Significant and unavoidable Adv = Adverse B = Beneficial NA = Not applicable NAdv = Not adverse NI = No impact Ensure that Receptors 80, 88, 89, 90, and 91 are not applicable FHWA noise abatement criteria by the design year the exposure of sensitive mitigation, avoidance, or (i.e., 2040). receptors to increased exposed to an average daily traffic noise level that minimization measures that could further reduce traffic noise levels. exceeds the land use-based 55 CNEL threshold With Alternatives B, C, and D multiple existing noise-sensitive established in TRPA's Pioneer/Ski Run Plan Area to the extent feasible the receptors in California would experience increases in traffic Statement 092 (TRPA 2002:3) and that Receptor 136 environmental noise that are considered substantial by 23 CFR 772 criteria is not exposed to an average daily traffic noise level consequences related to (i.e., increase of 12 dB or more). that exceeds the land use-based 65 CNEL threshold traffic noise. With Alternatives B, C, D, and E one or more existing noiseestablished in TRPA's Tourist Core Area Plan (City of sensitive receptors located outside of a TRPA transportation South Lake Tahoe and TRPA 2013:5-3 to 5-4) under corridor would be exposed to noise levels that exceed TRPA's cumulative conditions. These land use-based CNEL applicable land use-based CNEL threshold. thresholds apply at all portions of these receptor With Alternatives B, C, D, and E multiple noise-sensitive parcels that are more than 300 feet from the edge of receptors would be exposed to traffic noise levels that exceed US 50. This performance requirement shall take the applicable traffic noise standard established by the City of priority over Performance Requirements 3 and 4: South Lake Tahoe. 2. TTD shall offer to retrofit the South Shore Inn With Alternatives B, C, and D multiple noise-sensitive receptors (Receptor 55) sufficiently to ensure that its ambient would experience a CNEL increase equal to or greater than interior noise levels do not exceed 45 CNEL with 3 dB, which is a TRPA significance criterion and a CEQA windows and doors closed. However, the owners of significance criterion for receptors located in California. the motel may choose to refuse this offer: With Alternatives B, C, D, and E one or more existing hotels 3. To the extent feasible, reduce traffic noise levels at would be exposed to interior noise levels that exceed the those receptors identified in Table 3.15-11 that would interior noise standard of 45 CNEL. experience traffic noise levels that exceed or approach These exceedances would occur under existing-plus-project the applicable NAC and/or experience a traffic noise conditions (2020) and/or under cumulative-plus-project level increase greater than Caltrans's incremental conditions (2040) with a considerable contribution of the increase criterion of 12 dB. For NEPA purposes, the feasibility of achieving this performance requirement exceedance directly resulting from the implementation of the selected alternative. The intensity of these impacts would not can be based on the Noise Abatement Decision be substantially different with development of the replacement Report prepared for the project (Caltrans 2016), which housing at the mixed-use redevelopment sites with was prepared pursuant to guidance in Caltrans's Alternatives B, C, and D. Traffic Noise Analysis Protocol for New Highway Construction and Reconstruction Projects (Caltrans 2011) and 23 CFR 772; and

Resource Topics/Imp	acts	Impact D	ental Consequen Determinations (C Mitigation (by Al	EQA, TRPA)	Avoidance, Minimization, and/or Mitigation Measures	Impact	Environmental Consequences (NEPA)/ Impact Determinations (CEQA, TRPA) after Mitigation (by Alternative)		
		1	NEPA	CEQA/TRPA			NEPA	CEQA/TRPA	
Adv = Adverse B = Beneficial LTS = Le	ss than significant MU =	mixed-use	NA = Not applical	ole NAdv = Not	adverse NI = No impact PS = Potentially significant S = S	Significant	SU = Significant a	nd unavoidable	
					4. To the extent feasible, reduce traffic noise levels at those receptors identified in Table 3.15-11 that would experience a traffic noise level that exceeds the applicable local noise standard (established by the City of South Lake Tahoe), and/or would experience a traffic noise level increase of 3 dB or greater.				
					Noise Reduction Features  Noise-reduction features may include, but are not limited to, any combination of the following:				
					<ul> <li>■ Paving the nearby segment of roadway with rubberized hot-mix asphalt (RHMA) or equivalent surface treatment with known noise-reducing properties on top of the roadway surface. The RHMA overlay shall be designed with appropriate thickness and rubber component quantity (typically 15 percent by weight of the total blend), such that traffic noise levels are reduced by an average of 4 to 6 dB (noise levels vary depending on travel speeds, meteorological conditions, and pavement quality) as compared to noise levels generated by vehicle traffic traveling on standard asphalt. RHMA has been found to achieve this level of noise reduction in other parts of California (Sacramento County 1999). Pavement will require more frequent than normal maintenance and repair to maintain its noise attenuation effectiveness.</li> <li>Installation of outdoor sound barriers between affected receptors and the roadway segments that are the predominant noise source at the receptors. The sound barriers must be constructed of solid material (e.g., wood, brick, adobe, an earthen berm,</li> </ul>				

Table S-1	Summ	ary of Resource Topic	s wit	th Impact	ts and Avoidan	ce, Minimiza	ation, and/or Mitigat	tion Measures			
	Resource Topics/Impacts			Impact	nental Consequen Determinations (C e Mitigation (by Al	EQA, TRPA)	Avoidance, Minimization, and/or Mitigation Measures	Impact	nental Conseque Determinations ( Mitigation (by Al	CEQA, TRPA)	
				NEPA CEQA/TRPA  //U = mixed-use NA = Not applicable NAdv = Not adverse NI = No impact PS = Potentially significant S =						NEPA	CEQA/TRPA
Adv = Adverse	B = Beneficial	LTS = Less than significant	MU =	mixed-use	NA = Not applicat	ole NAdv = Not	adverse NI = No impact	PS = Potentially significant S = S	Significant	SU = Significant a	nd unavoidable
							CNEL standards at oth sound reflection from with a textured or abs vegetation on or next factors will be taken in such as using more not and boulders) to redul Mitigation Measure 3. a sound barrier to atte headlights shining ont describes details to elecause negative visual Visual Resources/Aes designed to blend into the highway, to the excharacter consistent vinvolve the use of stranative trees, or other special materials (e.g. façade of the sound wis covered in vegetatic sound barriers shall a requirements for snow roadway. If desired a sinto two overlapping soverlapped portion to from one side to the of the specific location, leical barriers for Alternative Elengineering design deviprovide engineering detinitiation of preliminary transportation improver	to residential properties and nsure the barriers would not impacts (see Section 3.7, sthetics). All barriers will be to the restored landscape along stent feasible. Ensuring a with the surrounding area may ategically placed boulders, vegetation; the addition of, wood or stonework) on the wall; and/or a sound wall that on. The location and design of other to any space w removal on the adjacent sound barrier can be divided segments with a gap in the provide pedestrian access other.  Ingth, height, and design of noise B must be defined during elopment. It is not feasible to tails of noise barriers prior to the			

Resource T	opics/Impacts	Impact	nental Consequer Determinations (C Mitigation (by Al	EQA, TRPA)	Avoidance, Minimization, and/or Mitigation Measures		Impact D	ental Conseque Determinations Mitigation (by A	(CEQA, TRPA)
			NEPA	CEQA/TRPA			N	NEPA	CEQA/TRPA
Adv = Adverse B = Beneficial	LTS = Less than significant	MU = mixed-use	NA = Not applica	ble NAdv = Not	adverse NI = No impact	PS = Potentially significant S = S	ignificant S	SU = Significant a	and unavoidable
					approximate location ar Alternative B are as follows Barriers would need and south sides of alignment to protect them. The approximing in the range of 1,00 of the highway. The approximately 5 dB between 6 to 8 feet Noise barriers woul right-of-way.  The conceptual extraction be from the interse Pioneer Trail (near the Road and Montreal The conceptual extraction be from the interse Pioneer Trail (near the Road and Montreal The conceptual extraction be from the interse Pioneer Trail (near the Road and Pioneer Trail (near the Road and Pioneer Trail (near the Barrier) area of Head Reduced vehicle speel limits, advisory signs, serve as traffic calmin barrier, center islands design of any special to the prevent the ability	to be built on both the north the realigned US 50 at affected residences behind nate length is estimated to be 20 to 1,200 feet on each side height needed for an attenuation would be above the road surface. If the south barrier would ction of realigned US 50 and the existing 90-degree bend in the to Pioneer Trail) east to the sy onto the Montreal Road existing intersection of Echo Road). The properties of the north barrier would ction of realigned US 50 and the existing intersection of Echo Road). The properties of the north barrier would ction of realigned US 50 and the existing intersection of neer Trail) east to beyond the existing corner of the back avenly Village Center).			

Table S-1 Sumn	nary of Resource Topics w	ith Impact	s and Avoidan	ice, Minimiz	ation, and/or Mitigat	ion Measures			
Resource To	opics/Impacts	Impact	nental Consequen Determinations (C e Mitigation (by Al	EQA, TRPA)	Avoidance, Minimization	, and/or Mitigation Measures	Impact D	ental Consequer eterminations (C ditigation (by Alt	CEQA, TRPA)
			NEPA	CEQA/TRPA			N	EPA	CEQA/TRPA
Adv = Adverse B = Beneficial	LTS = Less than significant MU	= mixed-use	NA = Not applical	ble NAdv = Not	adverse NI = No impact	PS = Potentially significant S = S	ignificant S	U = Significant ar	nd unavoidable
					units where the interior 45 CNEL, increased not walls to improve the S (STC) of those walls, in added insulation, upgound absorption pan exterior siding. For resuccommodation units conditioning, install ar necessary to ensure the windows and doors dumaintain adequate into acquire properties where exceed TRPA threshold abatement criteria, and standards; or where the increase by 3 dB CNEL additional properties of feasible noise reduction to achieve the applicator traffic noise increases.  Selection and Design Processible increases. Selection and design of measures shall be support abatement assessment of acoustical engineer or comproponent. This study shall proponent and approved the and Caltrans prior to projes support the effectiveness of measures, the site-specific	er tourist accommodation or noise levels would exceed oise insulation of exterior cound Transmission Class including but not limited to rades to drywall, acoustical els, new windows, and new sidences or tourist that do not currently have air in air conditioning system if that residents can close all uring nighttime hours and terior comfort.  Here the noise level would dos, applicable Caltrans noise and/or applicable local noise raffic noise levels would a congreater. Acquisition of shall only occur if other on measures are not available able standards or minimize to less than 3 dB CNEL.			

Resource '	Topics/Impacts	Impact Dete		nces (NEPA)/ CEQA, TRPA) Altemative)	Avoidance, Minimization, and/or Mitigation Measures	Impact Detern	Consequences (NEPA)/ inations (CEQA, TRPA) tion (by Alternative)
		NEF	'A	CEQA/TRPA		NEPA	CEQA/TRPA
dv = Adverse B = Beneficial	LTS = Less than significant MU =	= mixed-use NA	a = Not applica	able NAdv = Not		Significant SU = S	ignificant and unavoidable
					the use of detailed site-specific modeling with software such as FHWA's Traffic Noise Model (FHWA 2006), SoundPLAN (SoundPLAN 2015) or CadnaA (DataKustik 2015).  For those receptors predicted to experience an exceedance of NEPA significance criteria for traffic noise, as identified in Table 3.15-11, the feasibility of constructing a sound barrier, for NEPA purposes, shall be based on the results of the Noise Abatement Decision Report (Caltrans 2016), which was prepared pursuant to guidance in Caltrans's Traffic Noise Analysis Protocol for New Highway Construction and Reconstruction Projects (Caltrans 2011) and 23 CFR 772.  TTD shall prepare a study supplemental to the Noise Abatement Decision Report to identify all necessary measures to ensure attainment of all applicable TRPA land use-based CNEL thresholds. The supplemental study shall also identify all feasible measures to reduce traffic noise increases to less than 3 dB and/or reduce traffic noise levels to less than the applicable local noise standards, with specific attention to the application of the City's noise standard at the outdoor activity areas of residential and tourist accommodation land uses. In		
					addition, the supplemental study shall identify, and TTD shall select, the set of feasible noise reduction measures that would benefit the most receptors and prioritize the attainment of applicable NAC ahead of the applicable local noise standard.  Mitigation Measure 3.15-3b: Implement traffic noise reduction measures to reduce traffic noise exposure at		
					affected receptors  The following noise abatement measures would apply to the Alternative C transportation improvements and mixed-		

Adv - Adverse B - Beneficial LTS - Less than significant MU - mixed-use NA - Not applicable NAdv - Not adverse Ni - No impact PS - Potentially significant S - Significant and unavoidal use development sites for the purposes of NEPA, CEQA, and TRPA.  Performance Requirements Traffic noise reduction measures shall be implemented to achieve the following:  1. Ensure that Receptor 136 is not exposed to an average daily traffic noise level that exceeds the land use-based 65 CNEL threshold established in TRPA's Tourst Core Plan (City of South Lake Tahoe and TRPA 2013;5-3 to 5-4) under cumulative conditions. This performance requirement shall take priority over Performance Requirements 2, 3 and 4;  2. TTD shall offer to retroff the South Shore Inn (Receptor 136) singlificantly to ensure that it is ambient interior noise level does not exceed 45 CNEL with windows and doors closed. However, the owner of the motel may choose to refuse this offer.  3. To the extent feasible, reduce traffic noise levels at those receptors identified in Table 3.15-12 that would experience a traffic noise level that exceeds or approaches the applicable NAC and/or experience a traffic noise level that exceeds or approaches the applicable NAC and/or experience a traffic noise level increase afterion of 12 dB. For NEPA purposes, the feasibility of achieving this performance requirement can be based on the Noise Abatement Decision Reposed pursuant to guidance in Cartars's Traffic Noise analysis Protocol for New Highway, Construction and Reconstruction Projects	Resource To	opics/Impacts	Impact	nental Consequen Determinations (C e Mitigation (by Alt	EQA, TRPA)	Avoidance, Minimization	, and/or Mitigation Measures	Impact	mental Conseque Determinations ( r Mitigation (by Al	CEQA, TRPA)
use development sites for the purposes of NEPA, CEQA, and TRPA.  Performance Requirements  Traffic noise reduction measures shall be implemented to achieve the following:  1. Ensure that Receptor 136 is not exposed to an average daily traffic noise level that exceeds the land use-based 65 CNEL threshold established in TRPA'S  Tourist Core Area Plan (Loy of South Laker afahoe and TRPA 2013-53 to 5-4) under cumulative conditions.  This performance requirement shall take priority over Performance Requirements 2, 3 and 4;  2. TTD shall offer to retrofit the South Shore Inn (Receptor 55) sufficiently to ensure that its ambient interior noise level does not exceed 45 CNEL with windrow and sociosed. However, the owner of the motel may choose to refuse this offer;  3. To the extent feasible, reduce traffic noise levels at those receptors identified in Table 3.15.12 that would experience a traffic noise level in that exceeds or approaches the applicable NAC and/or experience a traffic noise level increase greater than Caltrans's incremental increase criterion of 12 dB. For NPA purposes, the feasibility of achieving this performance requirement can be based on the Noise Abatement Decision Report prepared for the project (Caltrans 2016), which was prepared pursuant to guidance in Caltrans's Traffic Noise Abatement				NEPA	CEQA/TRPA				NEPA	CEQA/TRPA
and TRPA.  Performance Requirements Traffic noise reduction measures shall be implemented to achieve the following:  1. Ensure that Receptor 136 is not exposed to an average daily traffic noise level that exceeds the land use-based 65 CNEL threshold established in TRPA'S Tourist Core Area Plan (City of South Lake Tance and TRPA 2013-73 to 5-4) under cumulative conditions. This performance requirement shall take priority over Performance Requirements 2, 3 and 4;  2. TTD shall offer to retrofit the South Shore Inn (Receptor 55) sufficiently to ensure that its ambient interior noise level does not exceed 45 CNEL with windows and doors closed. However, the owner of the motel may choose to refuse this offer;  3. To the extent feasible, reduce traffic noise levels at those receptors liebrified in Table 3.15-12 that would experience a traffic noise level that exceeds or approaches the applicable NAC and/or experience a traffic noise level increase greater than Caltraris's incremental increase enter than Caltraris's increment Decision Report prepared for the project (Caltraris 2016), which was prepared pursuant to guidance in Caltraris's Traffic Noise Analysis Protocol for New Highway Construction and Reconstruction Projects	Adv = Adverse B = Beneficial	LTS = Less than significant	MU = mixed-use	NA = Not applicab	ole NAdv = Not	adverse NI = No impact	PS = Potentially significant S = S	Significant	SU = Significant a	nd unavoidable
Traffic noise reduction measures shall be implemented to achieve the following:  1. Ensure that Receptor 136 is not exposed to an average daily traffic noise level that exceeds the land use-based 65 CNEL threshold established in TRPA'S Tourist Core Area Plan (City of South Lake Tahoe and TRPA 2013;5-3 to 5-4) under cumulative conditions. This performance requirement shall take priority over Performance Requirements 2, 3 and 4;  2. TTD shall offer to retrofit the South Shore Inn (Receptor 55) sufficiently to ensure that its ambient interior noise level does not exceed 45 CNEL with windows and doors closed. However, the owner of the motel may choose to refuse this offer;  3. To the extent feasible, reduce traffic noise levels at those receptors identified in Table 3.15-12 that would experience a traffic noise level that exceeds or approaches the applicable NAC and/or experience a traffic noise level increase greater than Caltrans's incremental increase criterion of 12 dB. For NEPA purposes, the feasibility of achieving this performance requirement can be based on the Noise Abatement Decision Report prepared for the project (Caltrans 2016), which was prepared pursuant to guidance in Caltrans's Traffic Noise Analysis Protocol for New Highway Construction and Reconstruction Projects						· ·	the purposes of NEPA, CEQA,			
average daily traffic noise level that exceeds the land use-based 65 CNEL threshold established in TRPA's Tourist Core Area Plan (City of South Lake Tahoe and TRPA 2013:5-3 to 5-4) under cumulative conditions. This performance requirement shall take priority over Performance Requirements 2, 3 and 4;  2. TTD shall offer to retrofit the South Shore Inn (Receptor 55) sufficiently to ensure that its ambient interior noise level does not exceed 45 CNEL with windows and doors closed. However, the owner of the motel may choose to refuse this offer;  3. To the extent feasible, reduce traffic noise levels at those receptors identified in Table 3.15-12 that would experience a traffic noise level that exceeds or approaches the applicable NAC and/or experience a traffic noise level increase greater than Caltrans's incremental increase criterion of 12 dB. For NEPA purposes, the feasibility of achieving this performance requirement can be based on the Noise Abatement Decision Report prepared for the project (Caltrans 2016), which was prepared pursuant to guidance in Caltrans's Traffic Noise Protocol for New Highway Construction and Reconstruction Projects						Traffic noise reduction mea				
those receptors identified in Table 3.15-12 that would experience a traffic noise level that exceeds or approaches the applicable NAC and/or experience a traffic noise level increase greater than Caltrans's incremental increase criterion of 12 dB. For NEPA purposes, the feasibility of achieving this performance requirement can be based on the Noise Abatement Decision Report prepared for the project (Caltrans 2016), which was prepared pursuant to guidance in Caltrans's Traffic Noise Analysis Protocol for New Highway Construction and Reconstruction Projects						average daily traffic no use-based 65 CNEL th Tourist Core Area Plan TRPA 2013:5-3 to 5-4) This performance requiren Performance Requiren (Receptor 55) sufficier interior noise level doe windows and doors clo	reshold established in TRPA's (City of South Lake Tahoe and under cumulative conditions. irrement shall take priority over nents 2, 3 and 4; fit the South Shore Innutly to ensure that its ambient is not exceed 45 CNEL with used. However, the owner of the			
(Caltrans 2011) and 23 CFR 772; and						3. To the extent feasible, those receptors identife experience a traffic noise approaches the applicatraffic noise level incremental increase of purposes, the feasibility requirement can be be Decision Report preparagora	reduce traffic noise levels at fied in Table 3.15-12 that would ise level that exceeds or able NAC and/or experience a ase greater than Caltrans's criterion of 12 dB. For NEPA by of achieving this performance ased on the Noise Abatement red for the project (Caltrans bared pursuant to guidance in a Analysis Protocol for New and Reconstruction Projects			

	Resource Top	pics/Impacts	Impact I	nental Conseque Determinations ( Mitigation (by A	CEQA, TRPA)	Avoidance, Minimization, and/or Mitigation Measures	Environmental Consequences (NEPA)/ Impact Determinations (CEQA, TRPA) after Mitigation (by Alternative)		
				NEPA	CEQA/TRPA		NE	PA .	CEQA/TRPA
Adv = Adverse B	= Beneficial	LTS = Less than significant MU	= mixed-use	NA = Not applica	able NAdv = Not	adverse NI = No impact PS = Potentially significant S = S	ignificant SU	J = Significant	and unavoidable
						experience a traffic noise level that exceeds the applicable local noise standard (established by the City of South Lake Tahoe), and/or would experience a traffic noise level increase of 3 dB or greater.			
						Noise Reduction Features  Noise reduction features may include, but are not limited to, the same features identified for Alternative B in Mitigation Measure 3.15-3a.			
						The specific location, length, height, and design of noise barriers for Alternative C must be defined during engineering design development and, as described for Alternative B, adhere to Mitigation Measure 3.7-3 to avoid negative visual impacts (see Section 3.7, Visual Resources/Aesthetics). It is not feasible to provide engineering details of noise barriers prior to the initiation of preliminary engineering for the transportation improvements. For conceptual planning purposes, however, based on the environmental planning-level noise analysis in this document, the approximate location and height of noise barriers for Alternative C are as follows (similar to Alternative B):			
						<ul> <li>■ Barriers would need to be built on both the north and south sides of the realigned US 50 alignment to protect affected residences behind them. The approximate length is estimated to be in the range of 1,000 to 1,200 feet on each side of the highway. The height needed for an approximately 5 dB attenuation would be between 6 to 8 feet above the road surface. Noise barriers would be entirely within the public right-of-way.</li> <li>■ The conceptual extent of the south barrier would be from the intersection of realigned US 50 and Pioneer Trail (near the existing 90-degree bend in</li> </ul>			

Table S-1 Sumn	nary of Resource Topics	with Impact	ts and Avoidan	ce, Minimiz	ation, and/or Mitigati	ion Measures			
Resource T	opics/Impacts	Impact	nental Consequen Determinations (C e Mitigation (by Ali	EQA, TRPA)	Avoidance, Minimization,	, and/or Mitigation Measures	Impact	nental Conseque Determinations ( r Mitigation (by Al	CEQA, TRPA)
			NEPA	CEQA/TRPA				NEPA	CEQA/TRPA
Adv = Adverse B = Beneficial	LTS = Less than significant M	/IU = mixed-use	NA = Not applicat	ole NAdv = Not	adverse NI = No impact	PS = Potentially significant S = S	ignificant	SU = Significant a	nd unavoidable
					curve of the highway o alignment (near the ex Road and Montreal Ro  ✓ The conceptual extent from the intersection or Pioneer Trail (near the Road and Pioneer Trail (near the Road and Pioneer Trail (near the existing corn Heavenly Village Centers)  Selection and Design Proce The selection and design of measures to reduce traffic Alternative C shall adhere to identified for Alternative B is Mitigation Measure 3.15-3 reduction measures to	of the north barrier would be of realigned US 50 and existing intersection of Moss I) east to beyond Fern Road per of the back parking area of er).  ess of specific traffic noise reduction noise impacts under to the same requirements in Mitigation Measure 3.15-5a.  BC: Implement traffic noise luce traffic noise exposure at the nent measures would apply to ation improvements and mixed-the purposes of NEPA, CEQA,  is assures shall be implemented to			

		ppics/Impacts		Environm Impact I	ental Consequen Determinations (C Mitigation (by Al	ces (NEPA)/ EQA, TRPA)			, and/or Mitigation Measures	Impact	mental Consequ Determinations r Mitigation (by <i>i</i>	(CEQA, TRPA)
					NEPA	CEQA/TRPA					NEPA	CEQA/TRPA
Adv = Adverse	B = Beneficial	LTS = Less than significant	MU = ı	mixed-use	NA = Not applical	ole NAdv = No	adverse	NI = No impact	PS = Potentially significant S =	Significant	SU = Significant	and unavoidable
							lai of from the state of the st	and use-based CNEL in these receptor parcoment the edge of US 50 mot exposed to more 50 CNEL under cumulanditions, which currese-based noise threse use 50 Sp2 Pioneer/Ski I pected to be exposed project conditions. Find take priority over and 4; Find Space and 4; Find Space that its ambier ceed 45 CNEL with a powever, the owners of fuse this offer; I the extent feasible exceptors 42, 68, 71, perience a traffic noise level increased affic noise level increased arposes, the feasibility quirement can be based and the production of the propose of the portion of the propose of the sample of the production of the propose of the sample of the production of the propose of the portion of the production of the produ	TRPA 2013:5-3 to 5-4). These thresholds apply to all portions els that are more than 300 feet 0. Also ensure that Receptor 29 than its existing noise level of ative-plus-Alternative D ently exceeds the TRPA land hold of 55 CNEL established in Run (TRPA 2002:3) and is id to 65 CNEL under cumulative This performance requirement Performance Requirements 2, fit the Trailhead Motel ficient noise insulation to it interior noise levels do not windows and doors closed. In the motel may choose to reduce traffic noise levels at 83, and 84 so they would not ise level that exceeds or able NAC and/or experience a lase greater than Caltrans's criterion of 12 dB. For NEPA by of achieving this performance assed on the Noise Abatement red for the project (Caltrans bared pursuant to guidance in a Analysis Protocol for New and Reconstruction Projects 3 CFR 772 and is included in ACCS EIR/EIS; and	-		

Resource To	opics/Impacts	Impact	nental Consequer Determinations (G e Mitigation (by A	CEQA, TRPA)	Avoidance, Minimization, and/or Mitigation Measures	Impact	nental Conseque Determinations ( r Mitigation (by Al	CEQA, TRPA)
			NEPA	CEQA/TRPA			NEPA	CEQA/TRPA
Adv = Adverse B = Beneficial	LTS = Less than significant MU	= mixed-use	NA = Not applica	ble NAdv = Not	adverse NI = No impact PS = Potentially significant S = S	ignificant	SU = Significant a	nd unavoidable
					4. To the extent feasible reduce traffic noise levels at those receptors identified in Table 3.15-13 that would experience a traffic noise level that exceeds the applicable local noise standard established by the City of South Lake Tahoe, and/or would experience a traffic noise level increase greater than 3 dB.			
					Noise Reduction Features Noise reduction features may include, but are not limited to, the same features identified for Alternative B in Mitigation Measure 3.15-3a.			
					Noise analysis indicates the need for a barrier on the south side of the relocated highway for Alternative D. The specific location, length, height, and design of noise barrier for Alternative D must be defined during engineering design development and, as described for Alternative B, adhere to Mitigation Measure 3.7-3 to avoid negative visual impacts (see Section 3.7, Visual Resources/Aesthetics). It is not feasible to provide engineering details of a noise barrier prior to the initiation of preliminary engineering for the transportation improvements. For conceptual planning purposes, however, based on the environmental planning-level noise analysis in this document, the approximate location and height of the noise barrier for Alternative D are as follows:			
					▲ A barrier would need to be built on the south side of the realigned US 50 alignment to protect affected residences behind it. The approximate length is estimated to be in the range of 800 to 1,000 feet. The height needed for an approximately 5 dB attenuation would be between 6 to 8 feet above the road surface. The noise barrier would be entirely within the public right-of-way. The conceptual extent of the south barrier would be from the intersection of realigned US 50 and			

	Resource To	ppics/Impacts	Impact	nental Conseque Determinations Mitigation (by A	(CEQA, TRPA)	Avoidance, Minimization	, and/or Mitigation Measures	Impact Dete		ences (NEPA)/ (CEQA, TRPA) Alternative)
				NEPA	CEQA/TRPA			NEF	PA	CEQA/TRPA
Adv = Adverse	B = Beneficial	LTS = Less than significant	MU = mixed-use	NA = Not applic	able NAdv = Not	adverse NI = No impact	PS = Potentially significant S = S	ignificant SU	= Significant	and unavoidable
						Road and Pioneer Trail) onto the Montreal Road corner of the Heavenly Notes and the existing residential (represented by Receptive replaced with mixed-use completion of the realign barrier would also need the realigned US 50 alignesidences. The approximorth side of the realignestimated to be approximorth side of the realignestimated to be approximated to selection and design of measures to reduce traffic Alternative D shall adhere identified for Alternative B Mitigation Measure 3.15-3 reduction measures to reduction me	imately 600 to 800 feet.  sess of specific traffic noise reduction to noise impacts under to the same requirements in Mitigation Measure 3.15-5a.  3d: Implement traffic noise duce traffic noise exposure at ment measures would apply for ses of CEQA and TRPA.			

Table S-1 Summary of Resource Topics with Impacts and Avoidance, Minimization, and/or Mitigation Measures

Resource To	pics/Impacts	Impact [	nental Consequer Determinations (C Mitigation (by Al	CEQA, TRPA)	Avoidance, Minimization	n, and/or Mitigation Measures	Impact Dete	cal Consequer erminations (C igation (by Alt	CEQA, TRPA)
			NEPA	CEQA/TRPA			NEF	PA	CEQA/TRPA
Adv = Adverse B = Beneficial	LTS = Less than significant	MU = mixed-use	NA = Not applica	ble NAdv = Not	adverse NI = No impact	PS = Potentially significant S = S	Significant SU	= Significant ar	d unavoidable
					ensure that Alternative exceedance of the 65 standard established the This performance requirement of the Performance Reduced Performance Requirement Performance Perfor	c noise levels at Receptors 20, and 136 by a minimum of 1 dB to a by Alternative E under to an exceedance of the tablished by the City of South land uses; and			
					Noise Reduction Features	may include, but are not limited ntified for Alternative B in			
					Selection and Design Prod The selection and design measures to reduce traffic Alternative E shall adhere	cess of specific traffic noise reduction			
Impact 3.15-4: Noise/land use redevelopment sites Alternatives A and E would not i any areas within the project site uses to excessive noise levels.	nclude the redevelopment c	has been in Alternatives	Measure 3.15-4 ncorporated into s B, C, and D to uce to the extent	Alts A, E = NI Alts B, C, D = PS	measures to ensure that	4: Implement noise protection outdoor activity areas on the t sites are not exposed to noise IEL	Alts A, E = NA Alts B, C, D = N additional miti measures wou	igation	Alts A, E = NI Alts B, C, D = LTS

Table S-1 Summary of Resource Topics wi	th Impacts and Avoidar	nce, Minimiz	ation, and/or Mitigation Measures			
Resource Topics/Impacts	Environmental Conseque Impact Determinations ( before Mitigation (by A	CEQA, TRPA)	Avoidance, Minimization, and/or Mitigation Measures	Impact D	nental Conseque Determinations Mitigation (by A	CEQA, TRPA)
	NEPA	CEQA/TRPA			NEPA	CEQA/TRPA
Adv = Adverse B = Beneficial LTS = Less than significant MU =	= mixed-use NA = Not applica	ble NAdv = Not	adverse $NI = No impact$ $PS = Potentially significant$ $S = S$	Significant	SU = Significant a	nd unavoidable
With Alternatives B, C, and D, the mixed-use redevelopment sites would not be located where they would be exposed to noise levels that exceed TRPA transportation corridor contourbased noise thresholds or TRPA land-use based noise thresholds. Therefore, this impact would be less than significant for purposes of TRPA threshold compliance. Common outdoor activity areas could be included on the mixed-use redevelopment sites that would potentially be developed under Alternatives B, C, and D. These common outdoor activity areas could be exposed to traffic noise levels that exceed the City of South Lake Tahoe's 60 CNEL standard.	feasible the potential to expose land uses to an incompatible noise environment.	DIE IVALV - NO	The following noise abatement measures would apply to the Alternative B, C, and D mixed-use development sites for the purposes of NEPA, CEQA, and TRPA.  Performance Requirement  Developers of each mixed-use redevelopment site shall be required to ensure that ambient traffic noise levels do not exceed 60 CNEL at all common outdoor activity areas (not including parking lots or walkways between parking lots and building entrances). This performance standard shall be achieved at each site prior to occupancy of any of the housing units and under the cumulative-plus-project condition for Alternatives B, C, and D.  Noise Reduction Features  Measures to reduce noise exposure levels may include, but are not limited to, any combination of the following:  ■ Setting back common outdoor activity areas as far as possible from the nearest segment(s) of US 50;  ■ Strategically locating buildings to shield common outdoor activity areas from noise generated by traffic on the nearby segment(s) of US 50. An example of this type of design layout exists at the existing Forest Suites Resort on the corner of Lake Parkway and Heavenly Village Way;  ■ Installing outdoor sound barriers on the redevelopment property between the outdoor activity areas and the nearby segment(s) of US 50. The sound barriers must be constructed of solid material (e.g., wood, brick, adobe, an earthen berm, boulders, or combination thereof). The reflectivity of each sound barrier shall be minimized to ensure that traffic noise reflected off the barrier does not contribute to an exceedance of applicable noise	needed or implement	are feasible to	

Table S-1	Summ	ary of Resource Topic	s wit	h Impact	s and Avoidan	ce, Minimiza	ation, a	nnd/or Mitigat	tion Measures			
	Resource To	pics/Impacts		Impact	nental Consequen Determinations (C e Mitigation (by Al	EQA, TRPA)	Avoida	ance, Minimization	n, and/or Mitigation Measures	Impact	mental Conseque Determinations ( r Mitigation (by Al	CEQA, TRPA)
					NEPA	CEQA/TRPA					NEPA	CEQA/TRPA
Adv = Adverse	B = Beneficial	LTS = Less than significant	MU =	mixed-use	NA = Not applicat	ole NAdv = Not	adverse	NI = No impact	PS = Potentially significant S = S	Significant	SU = Significant a	nd unavoidable
							with vege blen aest the becce Ensi surr strat vege woo and, Speedion sappl loca to all US & divide prove othe Loca pool Selection. The sel noise e use red acousti 8.6 of t study for seeking prior to	a textured or absetation on or next d into the overall hetically pleasing character of the some the dominanuring a character ounding area may tegically placed betation; the addition or stonework) of a sound wall total icon panels delems meaningful ound barriers so icable local guide tion and design only space requirents. Where desired ded into two overlide pedestrian actions and Design Projection and design on and Design Projection and design on and Design Projection and design on and Design Projection and the city of South Later each site shall be go develop the site project construction.	•			

Table S-1 Summary of Resource Topics wi	th Impacts and Avoidan	ice, Minimiz	ation, and/or Mitigation Measures		
Resource Topics/Impacts	Environmental Consequer Impact Determinations (C before Mitigation (by Al	CEQA, TRPA)	Avoidance, Minimization, and/or Mitigation Measures	Environmental Conseque Impact Determinations ( after Mitigation (by Al	CEQA, TRPA)
	NEPA	CEQA/TRPA		NEPA	CEQA/TRPA
Adv = Adverse B = Beneficial LTS = Less than significant MU	= mixed-use NA = Not applica	ble NAdv = Not	adverse NI = No impact PS = Potentially significant S = S	Significant SU = Significant a	nd unavoidable
			site-specific noise abatement assessment may involve additional sound level measurements and/or the use of detailed site-specific modeling with software such as FHWA's Traffic Noise Model (FHWA 2006), SoundPLAN (SoundPLAN 2015) or CadnaA (DataKustik 2015).		
3.16 Biological Environment					
Impact 3.16-1: Disturbance or loss of common vegetation communities and wildlife habitats  With three of the build alternatives (Alternatives B, C, and D), project implementation would result in the removal or disturbance of 0.5 to 1.7 acres of common natural vegetation communities and habitats, including Jeffrey pine and low sagebrush. Because these habitats are locally and regionally common and abundant, and the project site is presently affected by high levels of commercial/urban, residential, and recreational uses, none of these build alternatives would substantially reduce the size, continuity, or integrity of any common vegetation community or habitat type. With the nobuild alternative (Alternative A) or Alternative E, no project-related removal of common vegetation communities would occur.	Alts A, E = NI The design features of Alternative B, C, and D would avoid or minimize the disturbance or loss of common vegetation communities and wildlife habitats.	Alts A, E = NI Alts B, C, D = LTS	No mitigation is required for any of the alternatives.	NA	Alts A, E = NI Alts B, C, D = LTS
Impact 3.16-2: Disturbance or loss of sensitive habitats (jurisdictional wetlands, riparian vegetation, SEZ, aquatic habitat) Implementing Alternatives B, C, and D would result in direct removal and disturbance of sensitive habitats, including waters of the United States, waters of the state, riparian habitat, and SEZs. With the no-build alternative (Alternative A) or Alternative E, no project-related disturbance of sensitive habitats would occur.	Alts A, E = NI Mitigation Measures 3.16- 2a, 3.16-2b, and 3.16-2c have been incorporated into Alternatives B, C, and D to further reduce to the extent feasible the environmental consequences related to disturbance or loss of sensitive habitats.	Alts A, E = NI Alts B, C, D = PS	Mitigation Measure 3.16-2a: Implement vegetation protection measures and revegetate disturbed areas This mitigation would apply to the transportation improvements and mixed-use development sites included in Alternatives B, C, and D for the purposes of NEPA, CEQA, and TRPA.  Vegetation will not be disturbed, injured or removed, except in accordance with the TRPA Code and other conditions of project approval. All trees, major roots, and other vegetation, not specifically designated and approved for removal in connection with a project will be protected	Alts A, E = NA Alts B, C, D = No additional mitigation measures would be needed or are feasible to implement.	Alts A, E = NI Alts B, C, D = LTS

Resource T	Impact I	ental Consequer Determinations (C Mitigation (by A	CEQA, TRPA)	Avoidance, Minimization, and/or Mitigation Measures		Environmental Consequences (NEPA)/ Impact Determinations (CEQA, TRPA) after Mitigation (by Alternative)		
		NEPA				NEPA	CEQA/TRPA	
Adv = Adverse B = Beneficial	LTS = Less than significant	MU = mixed-use	NA = Not applica	ble NAdv = Not	adverse NI = No impact	PS = Potentially significant S = S	significant SU = Sig	nificant and unavoidable
					outside the construction so vegetation designated on protected by installing ten Subsections 33.6.9 and 3 outside the construction so vegetation damage during revegetated according to accordance with Section 6 Mitigation Measure 3.16-waters of the United State fill and required permits fill wetlands or other regulate. The following mitigation a improvements and mixed in Alternatives B, C, and D CEQA, and TRPA.  A preliminary delineation waters of the United State 2011 (TTD 2015). However has not been verified by Udelineation was completed project construction, it is conceed to be repeated prior approval.  Before the start of on site potentially affected jurisdiction biologist will survey the procommunities. Sensitive not are those of special concept those that are afforded special and 404 of the CWA.	g construction will be a revegetation plan in 61.4.  2b: Conduct delineation of continuous authorization for continuous to jurisdictional ed waters pplies to the transportation cuse development sites included of for the purposes of NEPA, continuous editorial wetlands and other cus was conducted in 2010 and cur, the preliminary delineation USACE. Additionally, because the distribution of the presentation		

Resource Topics/Impacts		Impact Determ	Consequences (NEPA)/ inations (CEQA, TRPA) ation (by Alternative)	Avoidance, Minimization, and/or Mitigation Measures	Environmental Consequences (NEPA)/ Impact Determinations (CEQA, TRPA) after Mitigation (by Alternative)		
		NEPA	CEQA/TRPA		NEPA	CEQA/TRPA	
dv = Adverse B = Beneficial	LTS = Less than significant MU	= mixed-use NA =	Not applicable NAdv = No	t adverse NI = No impact PS = Potentially significant S = S	significant SU = Signific	ant and unavoidable	
				regulations. If sensitive natural communities or habitats that are afforded specific consideration, based on Section 404 of the CWA are determined to be present, a delineation of waters of the United States, including wetlands that would be affected by the project, will be prepared by a qualified biologist through the formal Section 404 wetland delineation process. The delineation will be submitted to and verified by USACE. If, based on the verified delineation, it is determined that fill of waters of the United States would result from implementation of the project, a Authorization for such-fill or disturbance of waters of the United States will be secured from USACE through the Section 404 permitting process. The acreage of riparian habitat (deciduous riparian vegetation) and wetlands that would be removed or disturbed during project implementation will be quantified and replaced or restored/enhanced in accordance with USACE and TRPA regulations, which include meeting the no-net-loss standard in accordance with USACE requirements. Habitat restoration, enhancement, and/or replacement will be at a location and by methods agreeable to USACE as determined during the permitting processes for CWA Section 404 and by TRPA during the permitting process for SEZ.  In addition, on the California side of the study area, if any project activities would affect aquatic resources and associated riparian habitats subject to regulation by CDFW under Sections 1600 et seq. of the California Fish and Game Code (i.e., the bed, channel, or bank of any river, stream, or lake in California that supports wildlife resources), the project proponent shall consult with CDFW to determine whether a lake and streambed alteration			

Table S-1 Summary of Resource Topics with Impacts and Avoidance, Minimization, and/or Mitigation Measures Environmental Consequences (NEPA)/ Environmental Consequences (NEPA)/ Impact Determinations (CEQA, TRPA) Impact Determinations (CEQA, TRPA) Resource Topics/Impacts Avoidance, Minimization, and/or Mitigation Measures before Mitigation (by Alternative) after Mitigation (by Alternative) **NEPA** NEPA CEQA/TRPA CEQA/TRPA LTS = Less than significant MU = mixed-use NA = Not applicable NAdv = Not adverse NI = No impact PS = Potentially significant S = Significant SU = Significant and unavoidable Adv = Adverse B = Beneficial 1602, any compensatory mitigation shall be conducted in accordance with the terms of the LSAA, and in coordination with the other requirements of this mitigation measure (Mitigation Measure 3.16-2b) and Mitigation Measure 3.16-2c. Mitigation Measure 3.16-2c: Compensate for Unavoidable Loss of SEZ The following mitigation applies to the transportation improvements and mixed-use development sites included in Alternatives B, C, and D for the purposes of NEPA, CEQA, and TRPA. The following measures will be implemented to ensure consistency with Section 61.3 of the TRPA Code and further reduce potential adverse effects on SEZs, streams. and riparian habitat: ▲ All reasonable alternatives shall be implemented to avoid or reduce the extent of encroachment into SEZs. ▲ In instances where there is no feasible alternative to avoid an SEZ, the project proponent shall mitigate all impacts within the boundaries of SEZs by restoring SEZ habitat (land capability district 1b) in the surrounding area, or other appropriate area as determined by TRPA, at a minimum ratio of 1.5:1, consistent with TRPA Code. ▲ The project proponent shall retain a qualified restoration ecologist to prepare a restoration plan that will address final clean-up, stabilization, and revegetation procedures for areas disturbed by the project. This restoration plan shall be completed and reviewed by TRPA prior to acknowledgement of the project's permit. The restoration plan for SEZs shall include the following:

Table S-1	Summ	ary of Resource Topic	s with	ı Impact	s and Avoidan	ice, Minimiz	ation, and/or Mitigat	tion Measures			
Resource Topics/Impacts				Environmental Consequences (NEPA)/ Impact Determinations (CEQA, TRPA) before Mitigation (by Alternative)			Avoidance, Minimization, and/or Mitigation Measures		Environmental Consequences (NEPA)/ Impact Determinations (CEQA, TRPA) after Mitigation (by Alternative)		
				NEPA		CEQA/TRPA				NEPA	CEQA/TRPA
Adv = Adverse	B = Beneficial	LTS = Less than significant	MU = n	nixed-use	NA = Not applica	ble NAdv = Not	adverse NI = No impact	PS = Potentially significant S = S	Significant	SU = Significant a	and unavoidable
							and criteria for sele  complete assessmeresources in the resurces in the resurces in kind reference here compensatory SEZs success criteria) to  monitoring protoco annual report requinabitat shall be moneyears from complet intervention [include or until the success approved mitigation whichever is longer  confosition, amoung aps and bare ground minimum, compension, amoung aps and bare ground minimum, compension with the emaintenance and resurce are not met;  corrective measure are not met;  responsible parties reports; and  responsible parties	abitats for comparison with s (using performance and o document success; ol, including schedule and irements (Compensatory onitored for a minimum of five tion of mitigation, or human ding recontouring and grading], is criteria identified in the in plan have been met, r); ance standards, based on the ince and including native plant densities, species ant of dead woody vegetation and, and survivorship; at a satory mitigation planting sites ercent survival of planted and of the five-year monitoring period or dead and be replaced and monitoring percent survivorship is as if performance standards as for monitoring and preparing as for receiving and reviewing ifying success or prescribing			

Table S-1 Summary of Resource Topics with Impacts and Avoidance, Minimization, and/or Mitigation Measures

Resource Topics/Impacts	Environmental Consequen Impact Determinations (C before Mitigation (by Al	EQA, TRPA)	Avoidance, Minimization, and/or Mitigation Measures	Environmental Consequences (NEPA)/ Impact Determinations (CEQA, TRPA) after Mitigation (by Alternative)			
	NEPA	CEQA/TRPA		NEPA	CEQA/TRPA		
Adv = Adverse B = Beneficial LTS = Less than significant MU =							
Impact 3.16-3: Tree removal Regardless of the magnitude of biological effects of tree removal, native trees are protected in the Tahoe Basin, because of their natural qualities and functions. Because Alternatives B, C, and D would result in removal of more than 100 trees 14 inches or greater dbh, they would result in substantial tree removal. With Alternative E, native tree removal would not be substantial. While all build alternatives would require removal of trees greater than 24 inches dbh in eastside forest and/or 30 inches dbh in westside forest, which is generally prohibited by TRPA, the US 50/South Shore Community Revitalization Project meets the exception in TRPA Code Section 61.1.4.A.7 that allows for the removal of these trees for Environmental Improvement Program (EIP) projects, provided that findings demonstrate that the tree removal is necessary. In Alternative A no trees would be removed.	Alt A = NI, Alt E = NA Mitigation Measure 3.16-3 has been incorporated into Alternatives B, C, and D to further reduce to the extent feasible the environmental consequences related to biological effects resulting from tree removal.	Alt A = NI Alts B, C, D = PS Alt E = LTS	Mitigation Measure 3.16-3: Prepare tree removal, protection, and replanting plan  The following mitigation applies to the transportation improvements and mixed-use development sites included in Alternatives B, C, and D for the purposes of NEPA, CEQA, and TRPA.  A Tree Removal, Protection, and Replanting Plan shall be prepared by the project proponent to provide tree protection measures to comply with the performance criteria and other requirements of Chapter 61 of the TRPA Code, prevent damage to trees that are proposed to remain, and determine appropriate tree replanting locations and approaches to occur in the project site. The Plan will include marking and inventorying the specific trees to be removed, after detailed design is completed. A qualified forester will make a determination regarding the project's consistency with Chapter 61 of the TRPA Code. The plan shall set forth prescriptions for tree removal, water quality protection, root zone and vegetation protection, residual stocking levels, replanting, slash disposal, fire protection, and other appropriate considerations.	Alts A, E = NA Alts B, C, D = No additional mitigation measures would be needed or are feasible to implement.	Alt A = NI Alts B, C, D, E = LTS		
Impact 3.16-4: Introduction and spread of invasive plants With three of the build alternatives (Alternatives B, C, and D), project implementation has the potential to introduce and spread terrestrial and aquatic invasive plants during construction and revegetation periods. Noxious weeds and other invasive plants could inadvertently be introduced or spread in the project site during grading and construction activities, if nearby source populations passively colonize disturbed ground, or if construction and personnel equipment is transported to the site from an infested area. Soil, vegetation, and other materials transported to the project site from off-site sources for BMPs, revegetation, or fill for project	Alts A, E = NI Mitigation Measure 3.16-4 has been incorporated into Alternatives B, C, and D to further reduce to the extent feasible the environmental consequences related to the introduction and spread of invasive plants.	Alts A, E = NI Alts B, C, D = PS	Mitigation Measure 3.16-4: Implement invasive plant management practices during project construction This following mitigation applies to the transportation improvements and mixed-use development sites included in Alternatives B, C, and D for the purposes of NEPA, CEQA, and TRPA.  In consultation with TRPA, the project proponent shall implement appropriate invasive plant management practices during project construction. Recommended practices generally include the following:	Alts A, E = NA Alts B, C, D = No additional mitigation measures would be needed or are feasible to implement.	Alts A, E = NI Alts B, C, D = LTS		

Resource Topics/Impacts	Environmental Consequences (NEPA)/ Impact Determinations (CEQA, TRPA) before Mitigation (by Alternative)			Avoidanc	Avoidance, Minimization, and/or Mitigation Measures			Environmental Consequences (NEPA)/ Impact Determinations (CEQA, TRPA) after Mitigation (by Alternative)		
		NEPA	CEQA/TRPA					NEPA	CEQA/TRPA	
Adv = Adverse B = Beneficial LTS = Less than significant MU	= mixed-use	NA = Not applicat	ole NAdv = Not	adverse N	NI = No impact	PS = Potentially significant S =	Significant	SU = Significant a	nd unavoidable	
construction could contain invasive plant seeds or plant material that could become established in the project site. Additionally, invasive species currently present in or near the project site have the potential to be spread by construction disturbances. The introduction and spread of terrestrial or aquatic invasive species would degrade terrestrial plant, wildlife, and aquatic habitats, including habitats of special significance (riparian) within the project site opening up the potential introduction and spread of invasive species with Alternatives B, C, and D. With the no-build alternative (Alternative A) or Alternative E, no project-related ground disturbances in any common or sensitive vegetation community would occur; therefore, there would be no related spread or introduction of invasive plants into common or sensitive vegetation communities and habitats from these alternatives.				infesta treated conduct weeds constru and ap Treatm effectiv phenol potenti wetlan accord govern used ir wetlan before In area weed a clearly  To ens the pro weeds, seeds that ne certifie additio (or rice erosior Vehicle site cle project unknow soil or	ations will be ided where feasible of a pre-construction areas, and other invasuation areas, are propriete method and SEZ aread lance with the lading the land own sensitive habit and SEZs. Let the use of herbit as where treatmereas will be clear delineate work sure that fill matter areas will be clear delineate work sure that fill matter areas will be clear delineate work sure that fill matter areas will be clear delineate work sure that fill matter areas will be clear delineate work sure that fill matter areas will be clear delineate work sure that fill matter areas will be clear and weed-free by on, only certified a straw in uplan in control.	ctivities begin, invasive plant entified and appropriately e. A qualified biologist will oction survey for noxious sive plants in project and determine the feasibility od of removal/treatment. ected based on their a species ecology and ent methods—including the cides outside of potential s—will be conducted in aw, regulations, and policies over. Herbicides will not be tats, including potential and owners will be notified officides for invasive treatment, then is not feasible, noxious early flagged or fenced to exclusion. The exclusion are sources of fill and able. Fill and seed materials ted to the project site will be the Resident Engineer. In all weed-free imported material d areas) will be used for the project eree. All equipment entering the dinfested areas or areas of a will be cleaned of all attache ore being allowed into the and equipment will be cleaned.	d s e d			

Table S-1	Summ	ary of Resource Topic	s wit	th Impact	s and Avoidan	ice, Minimiz	ation, and/or Mitiga	tion Measures			
Resource Topics/Impacts			Impact	nental Consequer Determinations (C Mitigation (by Al	CEQA, TRPA)	Avoidance, Minimizatio	Environmental Consequences (NEPA)/ Impact Determinations (CEQA, TRPA) after Mitigation (by Alternative)				
				NEPA CEQA/TI		CEQA/TRPA	A			NEPA	CEQA/TRPA
Adv = Adverse	B = Beneficial	LTS = Less than significant	MU=	mixed-use	NA = Not applica	ble NAdv = Not	adverse NI = No impact	PS = Potentially significant S = S	ignificant	SU = Significant a	nd unavoidable
							weed-cleaning station area. Cleaning station botanist or noxious waway from aquatic reinspected by the onsmud or other signs the could be present before the equipment is not entry into work areas If designated weed-in the plants will be cut, a landfill in sealed be in another manner acagencies as approprifeasible, layers of musimilar materials will area to minimize the materials by equipme construction. These reflected nations are material will be seed material will be project site, from with a similar elevation who of the appropriate ausuch as cultivated tin	Infested areas are unavoidable, if feasible, and disposed of in ags or disposed of or destroyed occeptable to TRPA or other ate. If cutting weeds is not alch, degradable geotextiles, or be placed over the infestation spread of seeds and plant ent and vehicles during materials will be secured so a washed away.  In we seed sources for a used when possible. Plant and collected from or near the nin the same watershed, and at then possible and with approval atthority. Persistent nonnatives mothy (Phleum pretense), lis glomerata), or ryegrass			

## **ATTACHMENT 1 TO TABLE S-1**

## Mitigation Measure 3.13-1b: Reduce short-term construction-related fugitive dust (PM $_{10}$ and PM $_{2.5}$ )

## **Best Available Control Measures**

Source Category		Control Measure	Guidance
Backfilling	01-1 01-2 01-3	Stabilize backfill material when not actively handling; and Stabilize backfill material during handling; and Stabilize soil at completion of activity.	<ul> <li>Mix backfill soil with water prior to moving.</li> <li>Dedicate water truck or high capacity hose to backfilling equipment.</li> <li>Empty loader bucket slowly so that no dust plumes are generated.</li> <li>Minimize drop height from loader bucket.</li> </ul>
Clearing and grubbing	02-1 02-2 02-3	Maintain stability of soil through pre-watering of site prior to clearing and grubbing; and Stabilize soil during clearing and grubbing activities; and Stabilize soil immediately after clearing and grubbing activities.	<ul> <li>Maintain live perennial vegetation where possible.</li> <li>Apply water in sufficient quantity to prevent generation of dust plumes.</li> </ul>
Clearing forms	03-1 03-2 03-3	Use water spray to clear forms; or Use sweeping and water spray to clear forms; or Use vacuum system to clear forms.	■ Use of high pressure air to clear forms may cause exceedance of Rule requirements.
Crushing	04-1	Stabilize surface soils prior to operation of support equipment; and Stabilize material after crushing.	<ul> <li>✓ Follow permit conditions for crushing equipment.</li> <li>✓ Pre-water material prior to loading into crusher.</li> <li>✓ Monitor crusher emissions opacity.</li> <li>✓ Apply water to crushed material to prevent dust plumes.</li> </ul>
Cut and fill	05-1 05-2	Pre-water soils prior to cut and fill activities; and Stabilize soil during and after cut and fill activities.	<ul> <li>▲ For large sites, pre-water with sprinklers or water trucks and allow time for penetration.</li> <li>▲ Use water trucks/pulls to water soils to depth of cut prior to subsequent cuts.</li> </ul>
Demolition- mechanical/ manual	06-1 06-2 06-3	Stabilize wind erodible surfaces to reduce dust; and Stabilize surface soil where support equipment and vehicles will operate; and Stabilize loose soil and demolition debris.	▲ Apply water in sufficient quantities to prevent the generation of visible dust plumes
Disturbed soil	07-1 07-2	Stabilize disturbed soil throughout the construction site; and Stabilize disturbed soil between structures	<ul> <li>✓ Limit vehicular traffic and disturbances on soils where possible.</li> <li>✓ If interior block walls are planned, install as early as possible.</li> <li>✓ Apply water or a stabilizing agent in sufficient quantities to prevent the generation of visible dust plumes.</li> </ul>
Earth-moving activities	08-1 08-2 08-3	Pre-apply water to depth of proposed cuts; and Re-apply water as necessary to maintain soils in a damp condition and to ensure that visible emissions do not exceed 100 feet in any direction; and Stabilize soils once earth-moving activities are complete.	<ul> <li>Grade each project phase separately, timed to coincide with construction phase.</li> <li>Upwind fencing can prevent material movement on site.</li> <li>Apply water or a stabilizing agent in sufficient quantities to prevent the generation of visible dust plumes.</li> </ul>
Importing/ exporting of bulk materials	09-1 09-2 09-3 09-4 09-5	Stabilize material while loading to reduce fugitive dust emissions; and Maintain at least 6 inches of freeboard on haul vehicles; and Stabilize material while transporting to reduce fugitive dust emissions; and Stabilize material while unloading to reduce fugitive dust emissions; and Comply with Vehicle Code Section 23114.	<ul> <li>✓ Use tarps or other suitable enclosures on haul trucks.</li> <li>✓ Check belly-dump truck seals regularly and remove any trapped rocks to prevent spillage.</li> <li>✓ Comply with track-out prevention/mitigation requirements.</li> <li>✓ Provide water while loading and unloading to reduce visible dust plumes.</li> </ul>
Landscaping	10-1	Stabilize soils, materials, slopes.	<ul> <li>▲ Apply water to materials to stabilize</li> <li>▲ Maintain materials in a crusted condition</li> <li>▲ Maintain effective cover over materials</li> </ul>

## **Best Available Control Measures**

Source Category		Control Measure	Guidance
			<ul> <li>▲ Stabilize sloping surfaces using soil binders until vegetation or ground cover can effectively stabilize the slopes</li> <li>▲ Hydroseed prior to rainy season</li> </ul>
Road shoulder maintenance	11-1 11-2	Apply water to unpaved shoulders prior to clearing; and Apply chemical dust suppressants and/or washed gravel to maintain a stabilized surface after completing road shoulder maintenance.	<ul> <li>Installation of curbing and/or paving of road shoulders can reduce recurring maintenance costs.</li> <li>Use of chemical dust suppressants can inhibit vegetation growth and reduce future road shoulder maintenance costs.</li> </ul>
Screening	12-1 12-2 12-3	Pre-water material prior to screening; and Limit fugitive dust emissions to opacity and plume length standards; and Stabilize material immediately after screening.	<ul> <li>▲ Dedicate water truck or high-capacity hose to screening operation.</li> <li>▲ Drop material through the screen slowly and minimize drop height.</li> <li>▲ Install wind barrier with a porosity of no more than 50% upwind of screen to the height of the drop point.</li> </ul>
Staging areas	13-1 13-2	Stabilize staging areas during use; and Stabilize staging area soils at project completion.	<ul> <li>▲ Limit size of staging area.</li> <li>▲ Limit vehicle speeds to 15 mph.</li> <li>▲ Limit number and size of staging area entrances/exits</li> </ul>
Stockpiles/bulk material handling	14-1 14-2	Stabilize stockpiled materials.  Stockpiles within 100 yards of off-site occupied buildings must not be greater than 8 feet in height; or must have a road bladed to the top to allow water truck access or must have an operational water irrigation system that is capable of complete stockpile coverage.	<ul> <li>▲ Add or remove material from the downwind portion of the storage pile.</li> <li>▲ Maintain storage piles to avoid steep sides or faces.</li> </ul>
Traffic areas for construction activities	15-1 15-2 15-3	Stabilize all off-road traffic and parking areas; and Stabilize all haul routes; and Direct construction traffic over established haul routes.	<ul> <li>Apply gravel/paving to all haul routes as soon as possible to all future roadway areas</li> <li>Barriers can be used to ensure vehicles are only used on established parking areas/haul routes.</li> </ul>
Trenching	16-1 16-2	Stabilize surface soils where trencher or excavator and support equipment will operate; and Stabilize soils at the completion of trenching activities.	<ul> <li>Pre-watering of soils prior to trenching is an effective preventive measure; for deep trenching activities, pre-trench to 18 inches, soak soils via the pre-trench, and resume trenching.</li> <li>Washing mud and soils from equipment at the conclusion of trenching activities can prevent crusting and drying of soil on equipment.</li> </ul>
Truck loading	17-1 17-2	Pre-water material prior to loading; and Ensure that freeboard exceeds 6 inches (CVC 23114)	<ul> <li>Empty loader bucket such that no visible dust plumes are created</li> <li>Ensure that the loader bucket is close to the truck to minimize drop height while loading</li> </ul>
Turf Overseeding	18-1 18-2	Apply sufficient water immediately prior to conducting turf vacuuming activities to meet opacity and plume length standards; and Cover haul vehicles prior to exiting the site.	▲ Haul waste material off site immediately.
Unpaved roads/ parking lots	19-1 19-2	Stabilize soils to meet the applicable performance standards; and Limit vehicular travel to established unpaved roads (haul routes) and unpaved parking lots.	■ Restricting vehicular access to established unpaved travel paths and parking lots can reduce stabilization requirements.
Vacant land  CVC = California Veh	20-1	In instances where vacant lots are 0.10 acre or larger and have a cumulative area of 500 square feet or more that are driven over and/or used by motor vehicles and/or off-road vehicles, prevent motor vehicle and/or off-road vehicle trespassing, parking and/or access by installing barriers, curbs, fences, gates, posts, signs, shrubs, trees or other effective control measures.  le; mph = miles per hour	

TTD/TRPA/FHWA

 $Source: South \ Coast \ Air \ Quality \ Management \ District, \ Rule \ 403, \ June \ 2005$